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VWR INTERNATIONAL

LABORATORY CATALOGUE

2015

RL Slaughter
For All Your Laboratory Needs

APPARATUS | INSTRUMENTS
EQUIPMENT | CONSUMABLES

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These symbols indicate important product features:

- Explosion proof
- RS232 interface
- Ethernet interface
- Autoclavable
- Sterile
- Accessories required to use the product
- Requires specialist installation
- Item is heavy and difficult to transport
- Product requires chemicals or reagents
- Documentation available on request
- USB connection
- Selected for you

IVD — CE marking conform with IVD MDD 98/79 EC for In-vitro Diagnostics

2 year warranty, 3 year warranty, 4 year warranty, 5 year warranty — Warranty

IP 21, IP 31, IP 55, IP64, IP65, IP66, IP67, IP68 — IP Classification

SAFETY, LABORATORY FURNITURE AND LABORATORY EQUIPMENT

You will find some essential items when setting up a new laboratory listed in this chapter. The products are based around laboratory safety, furniture and equipment, cleaning and disposal.

Safety

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Basic standards

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EN 167 Methods for optical tests
EN 168 Test methods other than optical

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EN 170 Ultraviolet filters
EN 171 Infrared filters
EN 172 Solar protection filters for industrial use
EN 175 Welding work equipment
EN 207 Glasses for laser protection
EN 208 Glasses for laser adjustment
EN 379 Specifications concerning welding filters

Frame marking

Frame marking must include the CE symbol and the manufacturer's identification (logo or brand). If spectacles refer to the EN Standard, the number of the EN Standard is compulsory with the various application and mechanical strength symbols, in accordance with the tests requested by the manufacturer.

Symbols

3 - Liquid droplets or splashes
4 - Coarse dust particles >5 µm
5 - Gas and fine dust particles <5 µm
8 - Electrical short circuit arc
9 - Molten metal and hot solids

Mechanical strength symbols

A - High energy impact, resists a 6 mm, 0,86 g ball at 190 m/s
B - Medium energy impact, resists a 6 mm, 0,86 g ball at 120 m/s
F - Low energy impact, resists a 6 mm, 0,86 g ball at 45 m/s
G - Resistant to radiant heat
K - Resistance to surface deterioration by fine particles (optional)
N - Resistance to misting or fogging (optional)
S - Extra strong, resists a 22 mm, 43 g ball falling 1,30 m
T - Mechanical strength against particles travelling at high speeds and extreme temperatures

Lens marking

Lens marking must include: The scale number for filtering lenses and the manufacturer's name (logo or brand recommended by the manufacturer).

Radiation protection

2 - UV Protection (EN 170). The number 2 indicates the filter may affect colour recognition
2C or 3 - UV Protection (EN 170). The number 2C (previously 3) indicates the filter allows good colour recognition
4 - Infrared Protection (EN 171). i.e. protection from heat
5 - Solar Protection (EN 172). i.e. 100% UV sun glare protection - with no infrared (IR) protection
6 - Solar Protection (EN 172). i.e. 100% UV sun glare protection - with infrared (IR) protection
NB - The Scale of UV can vary depending on the source and application. Please contact VWR for further information.

Optical quality

1 - Class 1 High optical quality, suitable for regular use. Refractive power of ±0,06 dioptres
2 - Class 2 Medium optical quality, suitable for occasional use. Refractive power of ±0,12 dioptres
3 - Class 3 Low optical quality, suitable for exceptional use. Refractive power of ±0,25 dioptres

Warning

F - Maximum protection for spectacles with side arms
B - Maximum protection for goggles
A - Maximum protection for face protections

If the S, F, B and A symbols are not the same for the lens and the frame, the lower level should be assigned to the protective eyewear.

Safety spectacles, Berlin

111-0543

111-0544

Single lens

The innovative design of these spectacles provides an excellent field of vision. Ideal for working with laboratory UV lamps.

- High UV protection (UV 254 tested)
- Moulded brow guard
- Soft temple tips, made from two materials
- Adjustable temples for a perfect fit

Weight: 29 g

EN 166, EN 170 (EN 172 - 111-0544)

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV, anti-scratch, anti-fog	Clear PC	Transparent	1	**111-0543**
Anti-UV, anti-scratch, anti-fog	Smoke PC	Black	1	**111-0544**

Safety spectacles, Dublin

Single lens

Lightweight spectacles with clear polycarbonate lens.

- Anti-scratch/anti-fog coating
- Moulded brow guard
- Soft nose pad
- Soft rubber temple pads

Weight: 25.5 g

EN 166, EN 170; 1 FT

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2-1.2), anti-scratch, anti-fog	Clear PC	Transparent	1	**111-0929**

Safety spectacles, Milano

111-0545

111-0546

Single lens

Spectacles in a fashionable design, ideal for women due to low cut profile. Provide excellent field of vision. Ideal for working with laboratory UV lamps.

- High UV protection (UV 254 tested)
- Slim temples, fashionable design

Weight: 27 g

EN 166, EN 170

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV, anti-scratch, anti-fog	Clear PC	Red	1	**111-0545**
Anti-UV, anti-scratch	Indoor/outdoor PC	Amber	1	**111-0546**

Safety spectacles, Oslo

Single lens

Safety spectacles with wrap-around clear polycarbonate lens and indirect ventilation.

- Anti-scratch/anti-fog coating
- Integrated side shields
- Integrated brow guard
- Adjustable temple length

Weight: 35 g

EN 166, EN 170; 1 FT

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2-1.2), anti-scratch, anti-fog	Clear PC	Transparent	1	**111-0932**

Safety spectacles, Vienna

Single lens

Lightweight safety spectacles with clear polycarbonate lens.

- Anti-scratch/anti-fog coating
- With pantoscopic adjustment for angle modification
- Moulded brow guard
- Adjustable temple length

Weight: 26 g

EN 166, EN 170; 1 FT

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2-1.2), anti-scratch, anti-fog	Clear PC	Transparent	1	**111-0931**

Safety spectacles, Skyper
Uvex

111-8241

111-8006

Single lens

Safety spectacles offering an excellent field of vision. Skyper is the standard version, while Skyper s has been developed for slim faces. Skyper sx2 has a sporty design.

- Five-position temple length adjustment and adjustable lens inclination
- Integrated side shields
- Comfortable fit due to padded ear pieces
- Replaceable lenses

Weight: < 30 g

EN 166-168, EN 170, EN 172; 1F

Type	Lenses	Colour	Pk	Cat. No.
Skyper s				
Anti-UV, anti-scratch, anti-fog	Clear PC	Blue	1	**111-8241**
Skyper sx2				
Anti-UV, anti-scratch, chemical resistant	Amber PC	Blue	1	**111-1589**
Anti-UV, anti-scratch, chemical resistant	Clear PC	Blue	1	**111-8006**
Anti-UV, anti-scratch, chemical resistant	Clear PC	Black	1	**111-8005**
Anti-UV, anti-scratch, anti-fog (inside), chemical resistant	Clear PC	Blue	1	**111-1576**
Anti-UV (5-2,5), anti-scratch, anti-fog (inside), chemical resistant	Smoke PC	Blue	1	**111-1590**
Anti-UV (5-1,7), anti-scratch, anti-fog (inside), chemical resistant, silverlight mirror	Clear PC	Silver	1	**111-1591**
Skyper				
Anti-UV, anti-scratch, Optidur 3000 UV	Clear PC	Black	1	**111-1233**
Anti-UV, anti-scratch	Brown, 20% tinted PC	Black	1	**111-8201**
Anti-UV, anti-scratch, anti-fog	Clear PC	Blue	1	**111-8206**
Anti-UV, anti-scratch, anti-blur	Clear PC	Black	1	**111-8037**

Safety spectacles, I-3
Uvex

Single lens

These innovative safety spectacles are designed for a perfect fit.

- Flexible side arms with variable inclination
- Integrated Softlex zone ensures comfort for all head sizes
- Soft nosepiece, earpieces and Softflex zone at temples ensure a comfortable and secure fit

EN 166, EN 170

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2C-1.2), anti-scratch, anti-fog, anti-static	Cear PC	Orange/Blue	1	**111-1238**
Anti-UV (2C-1.2), anti-scratch, anti-fog	Clear PC	Blue/Grey	1	**111-1239**
Anti-UV (2C-1.2), anti-fog (high performance)	Clear PC	Green/White	1	**111-1244**

Safety spectacles, i-vo
Uvex

Single lens

These modern spectacles offer exceptional comfort through duo-component technology - the combining of two materials (hard and soft). They combine optimum protection and fit with maximum comfort for the wearer.

- High protection from mechanical and optical hazards, due to high impact resistant polycarbonate lenses
- Indirect ventilation for maximum freedom from misting and increased safety
- Angle and length of side pieces are individually adjustable for a comfortable and secure fit

Weight: 51 g

EN 166-168, EN 170; (EN 172: Anti-UV 5-2.5); 1F

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2-1.2), anti-scratch	Clear PC	Orange/Blue	1	**111-8011**
Anti-UV (2-1.2), anti-scratch	Clear PC	Blue/Grey	1	**111-8012**
Anti-UV (2-1.2), anti-scratch, anti-fog	Clear PC	Orange/Blue	1	**111-0144**
Anti-UV (2-1.2), anti-scratch, anti-fog	Clear PC	Black/Grey	1	**111-1202**
Anti-UV (5-2.5), anti-scratch	Grey PC	Black/Grey	1	**111-8010**
Anti-UV (2-1.2), anti-scratch	Blue PC	Orange/Blue	1	**111-1198**
Anti-UV (5-2.5), anti-scratch	Brown PC	Orange/Blue	1	**111-1199**
Anti-UV (5-2.5), anti-scratch, anti-fog	Brown PC	Orange/Blue	1	**111-1200**
Anti-UV (2-1.2), anti-scratch	Amber PC	Orange/Blue	1	**111-1215**
Replacement lens: Anti-UV (2-1.2), anti-scratch	Clear PC		1	**111-8013**

Safety spectacles, Pheos
Uvex

Single lens

The supravision HC-AF coating technology makes the uvex Pheos lens highly scratch resistant on the outside and permanently anti-fog on the inside.

- Provides 100% UV protection
- Integral brow guard for additional coverage
- Enhanced ventilation
- High performance hinges
- PPE compatibility (earmuffs, safety helmets and bump caps)

EN 166, EN 170

Type	Lenses	Colour	Pk	Cat. No.
Pheos				
Anti-UV, anti-scratch, anti-fog	Clear PC	Light Grey/Grey	1	**111-1245**
Anti-UV, anti-scratch, anti-fog	Clear PC	Black/Green	1	**111-1246**
Anti-UV, anti-scratch, anti-fog	Amber PC	Black/Yellow	1	**111-1247**
Anti-UV, anti-scratch, anti-fog	Clear PC, with sunglare filter	Light Grey/Grey	1	**111-1259**
Pheos, for narrow heads				
Anti-UV, anti-scratch, anti-fog	Clear PC	White-Green	1	**111-1248**
Anti-UV, anti-scratch, anti-fog	Clear PC	Anthracite	1	**111-1252**

Safety spectacles, Super G
Uvex

Single lens

These ultra-light, high tech polymer goggles have soft and flexible arms. The Super G ensures a comfortable and pressure-free fit that prevents fatigue when in use.

- Extremely thin and highly break resistant lenses
- High flexibility and high projectile resistance
- Aerodynamic shape provides maximum prevention of fog build-up
- Smooth material transition at the ends of the arms

Weight: 18 g

EN 166-168, EN 170; (EN 172: Anti-UV 5-2.5); 1F

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2-1.2), anti-scratch, anti-fog	Clear PC	Transparent	1	**111-0463**
Anti-UV (2-1.2), anti-scratch, anti-fog, anti-static	Clear PC	Transparent	1	**111-8063**
Anti-UV (5-1,7)	Silver mirror PC	Transparent	1	**111-1224**
Anti-UV (2-1.2), anti-scratch	Clear PC	Anthracite	1	**111-1221**
Anti-UV (5-2.5), anti-scratch	Grey PC	Anthracite	1	**111-1222**
Anti-UV (2-1.2), anti-scratch	Clear PC	Blue	1	**111-1220**
Anti-UV, anti-scratch, anti-fog	Silver mirror PC	Blue	1	**111-8062**

Safety spectacles, Axis
Bollé Safety

Single lens

Modern and innovative high impact wrap-around spectacles with or without CONTRAST lens.

- 180° panoramic vision
- Adjustable lens angle and integrated side shields
- Flexible and adjustable nose bridge
- Equipped with comfort pads

CONTRAST lens:

- Intensifies contrast

- Blocks blinding light

- Filters out 30% of blue light, which causes headaches and visual fatigue

Weight: 27 g

EN 166, (EN 170, EN-172: Anti-UV 5-2.5)

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (5-1,1), anti-scratch	Clear PC; with CONTRAST	Silver grey	1	**111-0071**
Anti-UV (2-1,2), anti-scratch, anti-fog	Clear PC; without CONTRAST	Silver grey	1	**111-0072**
Anti-UV (5-2,5), anti-scratch, anti-fog	Smoke PC; without CONTRAST	Silver grey	1	**111-0971**

Safety spectacles, Viper
Bollé Safety

Single lens

This model is ultra-light and very modern. With its one piece construction it provides additional protection and a wider field of vision.

- Adjustable temple length
- Integrated side shield for extra protection

Weight: 25 g

EN 166, EN 170

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (3-1,2), anti-scratch	Clear PC	Dark Blue	1	**111-0340**

Safety spectacles, Bandido
Bollé Safety

Single lens

Modern design spectacles offering a good field of vision.

- Wrap-around fit
- Integrated side shields
- ESP lens coating reduces glare and the harmful effects of blue light (only ESP model)

Weight: 28 g

EN 166, (EN 169, EN 170, EN 172)

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2C-1,2), anti-scratch, anti-fog	Clear PC	Transparent	1	**111-0319**
Anti-UV (5-1,4), anti-scratch	PC, ESP lens	Black	1	**111-0975**
Anti-UV (5-2,5), anti-scratch, anti-fog	Smoke PC	Grey	1	**111-0976**
Welding protection, anti-scratch	Green PC	Black	1	**111-0977**

Safety spectacles, B272
Bollé Safety

Single lens

This eye shield is a one piece construction and offers a panoramic field of vision.

- Adjustable temple length and lens angle
- Integrated side shields for greater protection
- Suitable for a range of head sizes

Weight: 31 g

EN 166, EN 170, EN 172

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV, anti-scratch, anti-fog	Clear PC	Blue	1	**111-0316**
Anti-UV, anti-scratch, anti-solar	Smoked PC	Black	1	**111-0317**

Safety spectacles, Targa
Bollé Safety

Single lens

Sporty one piece eye shield offering some UV radiation protection.

- Adjustable temple length and lens angle
- Straight arms with rubber grip for greater comfort
- Integrated side shields

Weight: 30 g

EN 166, EN 170

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV, anti-scratch, anti-fog	Clear PC	Yellow	1	**111-0338**

Safety spectacles, Cobra HD
Bollé Safety

Single lens

Cobra spectacles are multipurpose eyewear with a panoramic visual field. The side arms can be exchanged by a head band.

- Non-slip bridge and temples
- Clear, coated PC lens with anti-fog and anti-scratch properties for 180° view
- HD lens with the highest level of optical clarity and aquaphobic properties

Weight: 25 g

EN 166, EN 170

The Cobra spectacles are also available with a foam inner layer and head band (rather than arms), which allows them to be rated as a goggle for protection against liquid droplets.

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2C-1,2), anti-scratch, anti-fog	Clear PC (HD lens)	Black	1	**111-0620**

Description	Pk	Cat. No.
Accessories		
Foam and strap kit for Cobra Spectacles	1	**111-0669**

Safety spectacles, Rush
Bollé Safety

Single lens

The lightweight RUSH model, offers all round vision, perfect optical quality, maximum comfort and a modern design.

Available with Twilight technology: ESP with a double anti-fog coating (on both sides of the lenses) to prevent fogging in the most challenging conditions. Designed for use in low light conditions, it improves contrast. Its light transmission rate is ideal for outdoors, particularly early morning and late evening. B-Twilight filters 76% of blue light.

- Upper protection
- Adjustable non slip bridge
- Non slip temples

Weight: 25 g

EN 170, EN 166 FT

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2C-1,2), anti-scratch, anti-fog (hydrophobic)	Clear PC, HD	Clear	1	**111-0957**
Anti-UV (5-3,1), anti-scratch, anti-fog	Smoke PC	Grey	1	**111-0956**
Anti-UV (2C-1,2), anti-scratch, anti-fog	Clear PC	Clear	1	**111-0955**
Anti-UV (5-2), Twilight, anti-scratch, anti-fog	Brown PC	Brown	1	**111-0958**

Safety spectacles, Adaptec™
Honeywell Safety Products

Single lens

Stylish spectacles with vented, cushioned frame and PC lens. Suitable for jobs where there are risks associated with abrasion, fogging, airborne particulates or impact.

- Three position nose bridge is simple to adjust and keeps eyes centred in the lens
- Self-adjusting nose pads
- Adjustable lens angle reduces fogging; each temple hinge ratchets to seven positions
- Temple microadjustment allows workers to adjust temple tension without removing eyewear
- 4A+ coating on both sides of the lens ensures excellent anti-fog, anti-static and scratch resistant properties

EN 166 FT

Type	Lenses	Colour	Pk	Cat. No.
Anti-scratch, anti-fog, anti-static (narrow version)	Clear PC	Black/Red	1	**111-1450**

Safety spectacles, Millennia™ Classic
Honeywell Safety Products

Single lens

Comfortable safety spectacles with excellent optical qualities for complete protection.

- Straight temples, no adjustments necessary
- Comfortable, universal nose bridge
- Easily replaceable lenses
- Adjustable, break-away Flexicord retainer for added security and convenience

Weight: 32 g

EN 166, EN 170, EN 171, EN 172 (*); 1F

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2C-1,2), anti-scratch	Clear PC	Black	1	**111-8305**
Anti-UV (2C-1,2), anti-scratch	TSR-grey PC*	Black	1	**111-8304**
Anti-UV (2C-1,2), anti-scratch	HDL-yellow PC	Black	1	**111-8303**
Anti-UV (2C-1,2), anti-scratch	Silver mirror PC*	Black	1	**111-8302**
Anti-UV (2C-1,2), anti-scratch	Clear PC	Blue	1	**111-8306**
Anti-UV (2C-1,2), anti-scratch	Clear PC	Silver	1	**111-8308**
Anti-UV (2C-1,2), anti-scratch	Silver mirror PC*	Silver	1	**111-8301**

Safety spectacles, Millennia™ Sport
Honeywell Safety Products

Single lens

All the performance and comfort features of the Millennia™ Classic with a sleek frame and sportier design.

- Adjustable, break-away Flexicord retainer for safety
- Transparent brow for improved vision and comfort
- 3D ergonomically curved high impact nylon arms to accommodate hardhats more comfortably

Weight: 27 g

EN 166, EN 170, EN 172; 1FT

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV, anti-scratch, anti-fog	Clear PC	Black	1	**111-3583**

Safety spectacles, Ignite
Honeywell Safety Products

Single lens

These spectacles are suitable for indoor use against most commonly encountered hazards.

- Superior coverage: Close to the face protection
- Lightweight frameless design: Comfortable fit
- Adjustable nosepiece reduces slippage

Weight: 26 g

EN 166, EN 170

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2C-1,2), anti-fog	Clear PC	Red/Silver-Grey	1	**111-3607**
Anti-UV (5-2,5), anti-scratch	TSR smoked PC	Red/Silver-Grey	1	**111-1432**
Anti-UV (2C-1,2), anti-scratch	Clear PC	Black/SilverGrey	1	**111-0405**

Safety spectacles, Classic Safety, 2720
3M

Single lens

Lightweight, modern design safety spectacles.

- Slim nose bridge and flat temples
- Ideal in combination with respiratory masks

Weight: 24 g

EN 166, EN 170

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV, anti-scratch, anti-fog	Clear PC	Blue	1	**111-0264**

Safety spectacles, 2810
3M

Single lens

Lightweight spectacles that combine the more traditional style of safety spectacles with an attractive appearance. The flat flexible PC temples with satin finish enhance the style and user comfort, as well as compatibility with earmuffs. The wrap-around design with lateral protection offers increased protection. The spectacles are excellent for smaller face sizes and combine well with 3M™ 9300 series respirators.

- Strong polycarbonate lens for impact resistance
- Optical grade one for maximum clarity
- Stylish gradiant green temples

Weight: 21 g

EN 166, EN 170

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2C-1,2)	Clear PC	Clear	1	**113-0690**

Safety spectacles, SecureFit™
3M

Single lens

Stylish, lightweight design features proprietary 3M™ Pressure Diffusion Temple Technology that helps diffuse pressure over the ear to enhance frame comfort while not compromising the security of fit across a diverse workforce.

- 3M Pressure Diffusion Technology allows temples to naturally adjust to individual head sizes
- Self-adjusting feature eliminates need to stock multiple frame sizes at worksites
- Secure, snug fit keeps eyewear in place without slippage even when the person is in motion

Weight: 18 g

EN 166

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV, anti-scratch, anti-fog	Clear PC	Transparent	1	**111-1592**
Anti-UV, anti-scratch, anti-fog	Grey PC	Grey	1	**111-1593**
Anti-UV, anti-scratch, anti-fog	Amber PC	Amber	1	**111-1594**

Safety spectacles, Cybric
Uvex

Dual lens

These safety spectacles feature a modern design with innovative lenses.

- Padded arms ensure a pressure-free and comfortable fit
- Wide field of vision

Weight: 48 g

EN 166, EN 168, EN 170

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV, anti-scratch	Clear PC	Black/Orange	1	**111-0146**

Safety spectacles, Solis B-Green
Bollé Safety

Dual lens, environmentally friendly

Solis B-Green spectacles are made from PLA and renewable materials. The frame contains 40% biocarbon and the manufacturing and the recycling of the materials both produce less greenhouse gas.

- OK-Biobased certified by the Belgian laboratory Vincotte
- Screwless and lightweight frame

Weight: 18 g

EN 166, EN 170

Delivery information: Supplied in a box made from recycled cardboard.

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2C-1,2), anti-scratch, anti-fog	Clear PLA and biodegradable plastic	Black	1	**111-0677**

Safety spectacles, Groove
Bollé Safety

Dual lens

Modern design spectacles with a unique velvety feel material. Available with clear, smoke or blue flash lenses.

- Panoramic visual field
- Comfort nylon temples
- Non slip bridge

Weight: 25 g

EN 166, EN 172 (smoke and blue flash lens)

Delivery information: Supplied with microfibre pouch.

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV, anti-scratch	Blue flash PC	Black	1	**111-0476**
Anti-UV, anti-scratch, anti-fog	Smoke PC	Black	1	**111-0474**
Anti-scratch, anti-fog	Clear PC	Black	1	**111-0473**

Safety spectacles, Silium
Bollé Safety

Dual lens

These slim and attractively designed spectacles feature a metal, nickel-free frame and a curved lens.

- Flexible temples bend up to 160%, equipped with comfort pads
- Flexible fittings in the nose bridge offer extra comfort

Weight: 34 g

EN 166, EN 170

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2-1,2), anti-scratch, anti-fog	Clear PC	Silver	1	**111-0121**

Safety spectacles, Solus™
3M

Dual lens

Extremely stylish and lightweight eyewear available with blue lens or with a light flash mirror coating. It removes eye stress and reduces eye fatigue often occurring in monochromatic (single colour) yellow lit environments. Perfect for work environments where there is strong glare from bright lighting.

- Lens curve optimises the fitting, field of vision and coverage of the eyes
- Soft flexible temples offers improved wearer comfort

EN 166, EN 170

Delivery information: Supplied with pouch.

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2-1.2), anti-scratch	Clear PC	Orange/Black	1	**111-1124**
Anti-UV (2-1.2), anti-scratch, anti-fog	Clear PC	Orange/Black	1	**111-1123**
Anti-UV (5-3.1), anti-scratch, anti-fog	Bronze PC	Orange/Black	1	**111-1125**
Anti-UV (5-1.7), anti-scratch, anti-fog	I/O mirrored PC	Orange/Black	1	**111-1126**
Anti-UV (5-3.1), anti-scratch, anti-fog	Red mirrored PC	Orange/Black	1	**111-1127**
Anti-UV (5-3.1), anti-scratch, anti-fog	Mirrored PC	Blue/Grey	1	**111-1122**

VWR COLLECTION

SELECTED FOR YOU

Cover spectacles, Lisbon

Visitor spectacles with wrap-around clear polycarbonate lens and with indirect ventilation.

- Anti-scratch/anti-fog coating
- Integrated brow guard
- Vented side shields

Weight: 46 g

EN 166, EN 170; 1 FT

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2-1.2), anti-scratch, anti-fog	Clear PC	Transparent	1	**111-0930**

Cover spectacles
Uvex

Cover spectacles with an unrestricted lateral field of vision can be worn over most prescription spectacles.

- Indirect ventilation
- Four position arm length adjustment
- Ear piece pads guarantee an excellent, pressure-free fit
- Optidur NHC coating for high scratch and chemical resistance

Weight: 56 g

EN 166-168, EN 170; 1F

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2-1,2), anti-scratch	Clear PC	Blue/Black	1	**111-8030**

Cover spectacles
Uvex

These ultra lightweight spectacles fit over most prescription spectacles.

- Standard fit with integrated side shields and good ventilation
- Good field of vision
- Integrated brow guard shields

Weight: 39 g

EN 166

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV	Clear PC	Transparent	1	**111-8050**

Cover spectacles, Super OTG
Uvex

Super OTG cover spectacles have thin, hingeless side arms with Grilamid® (a combination of hard and soft plastics). They combine the benefits of temple glasses with the comfort of a headband.

- Grilamid® has high impact resistance, even at low temperatures, and is also resistant to chemicals
- The arms are quick and easy to adjust; arm ends in particular are smooth and flexible
- Lens inclination of 11° guarantees good visibility when looking down and helps prevent the wearer from tripping
- Curved lens surface provides excellent coverage of the eye area without touching the prescription glasses beneath

Weight: 38 g

EN 166-168, EN 170

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2-1.2), anti-scratch, anti-fog, chemical resistant	Clear PC	Blue	1	**111-8259**
Anti-UV (2-1.2), anti-scratch, chemical resistant	Clear PC	Blue	1	**111-8251**
Anti-UV (2-1.2), anti-scratch, chemical resistant	Clear PC	Black	1	**111-8258**
Anti-UV (5-2.5), anti-scratch, chemical resistant	Smoke PC	Black	1	**111-1216**
Anti-UV (2-1.2), anti-scratch, chemical resistant	I/O clear PC	Black	1	**111-1219**

Cover spectacles, Visiteur
Bollé Safety

To fit over prescription spectacles.

- Standard fit
- With integrated brow guards and side shields

Weight: 39 g

EN 166, EN 170

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2-1,2)	Clear PC	Transparent	1	**111-0341**

Cover spectacles, B-Line
Bollé Safety

Cover spectacles offering a panoramic field of vision. The frame is manufactured from nylon.

- Scratch resistant
- Wide side shields

EN 166, (EN 170, EN 172)

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2-1,2)	Clear PC	Transparent	10	**111-1586**
Anti-scratch	Clear PC	Transparent	10	**111-0979**
Anti-UV (2.1.2), anti-scratch	Clear PC	Blue	1	**111-0343**
Anti-UV (5-2.5), anti-scratch	Smoke lens	Blue	1	**111-0980**

Goggles, Ultrasonic
Uvex

These full view goggles fit individual facial features well, due to their combination of hard and soft materials, ensuring a high level of comfort for the wearer.

- Optimised internal volume and extensive side protection, even for spectacle wearers
- Wide panoramic field of view
- Ventilated for a pleasant and irritation-free interior environment

Weight: 80 g

EN 166, EN 170; 1B

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV, anti-scratch, anti-fog	Clear PC	Orange/Grey	1	**111-8008**
Anti-UV, anti-scratch, anti-fog**	Clear PC	Black/Grey	1	**111-8064**
Anti-UV, anti-scratch, anti-fog	Clear PC	Black/Grey	1	**111-8009**
Anti-UV, anti-scratch, anti-fog*	Clear PC	Blue/Grey	1	**111-0147**

* Model has reduced top and bottom ventilation
** Model has rubber headband

Cleanroom goggles, sterile/autoclavable, Ultrasonic CR
Uvex

These sterile goggles offer best wearers comfort, highest functionality and an innovative design. Suitable for use over prescription spectacles. Ideal for use in cleanrooms and in food processing-, medical- and pharmaceutical industries.

- Ultra-light autoclavable goggles with inner anti-fog-effect
- Autoclavable at least 10 times at 121 °C for 20 min.
- Non-allergenic material which is free of harmful substances
- With panorama lens, duo component technology and adjustable silicone headband
- Indirect ventilation ensures a pleasant and comfortable interior environment
- Easy lens replacement

Weight: 98 g

EN DIN 166, optical class 1

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2-1,2), anti-scratch, anti-fog	Clear PC	White	1	**111-1596**

Goggles, Coverall
Bollé Safety

Comfortable goggles with adjustable elastic straps.

- Fit comfortably over most prescription eyewear
- High flow ventilation with four indirect ventilators
- Resistant to molten metal and hot solids, dust and liquid aerosols

Weight: 67 g

EN 166

Type	Lenses	Colour	Pk	Cat. No.
Ventilated, anti-fog	Clear PC	Blue	1	**111-0386**
Sealed, anti-fog	Clear PC	Blue	1	**111-0991**

Goggles, Cobra
Bollé Safety

Low profile goggle with soft foam seal, adjustable strap and non slip bridge. This version of the Cobra combines the comfort of an eyeshield with the fit and seal of an all-purpose goggle.

- Clear anti-static PC lenses for 180° panoramic field of view
- Interchangeable comfort foam
- Lenses with anti-fog and anti-scratch coating for improved resistance

Weight: 26 g

EN 166, EN 170

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV, anti-scratch, anti-fog	Clear PC	Transparent/Black	1	**111-0670**

Goggles, Blast
Bollé Safety

111-0091

These goggles offer an outstanding field of vision, fit over prescription spectacles and can be worn with respiratory half masks. They offer unbeatable comfort and essential modular design. In combination with the accessory visor, this model can also be used as a face shield.

- Liquid overflow chute
- Ball-pivoting, adjustable strap
- Available with or without foam, ventilated or sealed, with PC or acetate lens

Weight: 113 g

EN 166

Type	Lenses	Colour	Pk	Cat. No.
Ventilated, anti-UV (2-1,2), anti-scratch, anti-fog	Clear PC	Blue	1	**111-0983**
Sealed, anti-UV (2-1,2), anti-scratch, anti-fog	Clear PC	Blue	1	**111-0985**
Ventilated/foam, anti-UV (2-1,2), anti-scratch, anti-fog	Clear PC	Blue	1	**111-0114**
Ventilated, anti-UV (2-1,2)	Clear acetate	Blue	1	**111-0984**
Cleanroom, sealed, anti-UV (2-1,2), anti-fog	Clear acetate	Blue	1	**111-0091**

Type	Lenses	Pk	Cat. No.
Accessories			
Visor	Blue PC	1	**111-0986**
Spare lens	Clear acetate	1	**111-0999**
Optical insert		1	**111-1016**

Goggles, Blast Autoclave
Bollé Safety

Specific ultra-comfort goggle suitable for cleanrooms. The goggles fit over prescription spectacles and can be worn with respiratory half masks. The special autoclavable frame and the reinforced ventilation improve the wearing comfort.

- Adjustable clean strap and ventilated frame
- Clear, uncoated PC lenses for panoramic vision
- Liquid overflow chute

Weight: 103 g

EN 166

Type	Lenses	Colour	Pk	Cat. No.
Anti-fog	Clear PC	Transparent	1	**111-0668**

Goggles, V-Maxx®
Honeywell Safety Products

Sporty design goggles with elastic strap.

- 180° field of vision for distortion-free peripheral vision
- Can be worn over prescription eyewear and some half mask respirators
- Rotating strap attachments for easier use with hardhats
- Indirect ventilation complies with splash-resistance test

Weight: 93 g

EN 166, EN 169, EN 170, 1 F, C, 3, 4, 9

Type	Lenses	Colour	Pk	Cat. No.
Anti-UV (2-1,2), anti-scratch, anti-fog	Clear PC	Transparent	1	**111-3585**

UV blocking eyewear
UVP

Eye and face protection for applications involving short wave ultraviolet sources. Available in three styles:

- Spectacles are made of impact resistant PC; the top and side-shield design provides full UV protection
- Goggles are constructed of specially formulated plastic and feature a flexible rubber trim which fits comfortably on the face and over most prescription spectacles, allowing indirect ventilation
- Faceshield covers the face and neck area

ANSI-Z87.1 1986

Description	Pk	Cat. No.
Spectacles (anti-UV)	1	**730-1033**
Goggles (anti-UV, anti-fog)	1	**730-1034**
Faceshield (anti-UV, anti-fog)	1	**730-1035**

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Spectacle cords
Uvex

For use with most safety spectacles.

Colour: Black

Description	Pk	Cat. No.
Cord for safety spectacles	1	**111-8052**

Spectacle pouches
Uvex

PVC

Extremely robust pouch suitable for most spectacles.

- With reinforced zip and belt loop
- Additional space for spare lens

Description	Pk	Cat. No.
Pouch with zipper closure and belt clip	1	**111-8034**

VWR COLLECTION

SELECTED FOR YOU

Lens cleaning tissues, grade 541

100% exotic fibres

These tissues are suitable for cleaning various optical lenses such as objectives, binoculars, magnifying glasses, spectacles as well as optical fibre filaments.

113-6220

Size (mm)	Packed	Pk	Cat. No.
80×100	1×500 sheets	500	**111-5003**
100×150	25×25 sheets	625	**111-5004**

Spectacle lens cleaning station
Uvex

Suitable for wall mounting, this spectacle lens cleaning station is supplied complete with 2 packs of silicone-free tissues and 500 ml of cleaning solution (with pump).

W×D×H: 460×130×230 mm

Description	Pk	Cat. No.
Spectacle lens cleaning station, complete	1	**111-0075**
Refill pack of silicone-free cleaning tissues, approx. 700 sheets	700	**111-8071**
Cleaning fluid, refill, 500 ml	500 ml	**111-1601**
Replacement plastic pump for cleaning solution*	1	**111-8073**

*Replacement pump is delivered without cleaning solution, which can be ordered separately. Please contact your local VWR office for more details.

Wipes for safety spectacles
Uvex

Silicone-free, individually sealed, wet wipes.

- Suitable for all lenses
- Cardboard box suitable for wall mounting

Description	Pk	Cat. No.
Cleaning towelettes for glasses, moistened	100	**111-8080**

Cleaning products for safety spectacles
Bollé Safety

111-0572

111-0573

Description	Pk	Cat. No.
Metal cleaning station, B400, with lens cleaner (anti-bacterial, anti-reflection, anti-static), 500 ml and 400 tissues	1	**111-0570**
Carton cleaning station, B410, with lens cleaner (anti-fog, anti-reflective, anti-static; alcohol and silicone-free), 150 ml and 2x200 tissues	1	**111-0573**
Micro fibre tissues for B400 and B410, 200 tissues per dispenser	1	**111-0571**
Lens cleaner spray (anti-bacterial, anti-reflective, anti-static), 500 ml, for cleaning station B400	1	**111-0572**
Lens cleaning spray (anti-fog, anti-reflective, anti-static; alcohol and silicone-free), 50 ml	1	**111-0575**
Lens cleaning spray (anti-fog, anti-reflective, anti-static; alcohol and silicone-free), 150 ml	1	**111-0679**
Lens cleaning tissues (anti-bacterial, anti-reflective, anti-static), 100 tissues per dispenser	100	**111-0972**
Lens cleaning tissues (anti-bacterial, anti-reflective, anti-static), 500 tissues per dispenser	500	**111-0576**

Lens cleaning tissues, grade 105
Whatman (GE Healthcare)

These cleaning tissues are suitable for use with lenses and any other optical surfaces made from glass, quartz or plastic.

- Soft surface
- Strong and highly absorbent
- Chemically pure tissue free from silicones and other additives

Size (mm)	Packed	Pk	Cat. No.
100×150	25×25 sheets	625	**111-5000**
200×300	100 sheets	100	**111-5001**
460×570	500 sheets	500	**111-5002**

Goggle wipes, FogTechDX

Fogtech®DX provides crystal clear vision through safety goggles, glasses, prescription glasses and face shields. Exceptional at preventing fogging in the widest possible range of conditions, these tear open sachets mean it is also quick and easy to apply; a long-lasting coat is applied in seconds and dries instantly.

Description	Pk	Cat. No.
Anti-fog goggle wipes, FogtechDX	500	**IBSAFOGTECHDX**

Face shields

Face shield with clear polycarbonate screen.

- With adjustable headgear and ABS front protection
- Optical class 1 and impact resistance F

EN 166, 1F

Type	Material	L×W (mm)	Pk	Cat. No.
Impact resistant	PC	200×300	1	**111-8141**

Face shields, Relrsi/Relpsi
Bollé Safety

This protective face shield is equipped with adjustable headgear to ensure that the visor remains securely in place while you work.

- Panoramic vision
- Ultra-resistant flip-up face shield, mounted in yellow PP
- Screen made from 1,5 mm thick fog resistant acetate (model Relrsi) or from 1,0 mm thick PC (model Relpsi)
- Acetate face shield provides protection against short circuit electric arcs

Weight: 200 g

EN 166, EN 170 (Acetate face shield only)

Type	Material	L×W (mm)	Pk	Cat. No.
Impact resistant, anti-fog	PC	190×290	1	**111-1012**
Anti-fog, arc protection	Acetate	190×290	1	**111-0334**

Description	Material	Pk	Cat. No.
Accessories			
Replacement visor for face shield Relpsi	PC	1	**111-1001**
Replacement visor for face shield Relrsi	Acetate	1	**111-1002**

Face shield, Sphere
Bollé Safety

This protective face shield with PC lens provides protection against UV rays and short circuit electric arcs.

- 180° field of vision
- Easy to fit due to height and width-adjustable headgear and headband
- Face shield adapts to all head shapes for all uses

Weight: 355 g

EN 166

Type	Material	L×W (mm)	Pk	Cat. No.
Anti-UV (2C-1.2), short circuit electric arcs protection	PC	205×394	1	**111-1024**

Description	Material	Pk	Cat. No.
Accessories			
Replacement visor lens, 205×394 mm	PC	1	**111-1003**

Face shields, Clearways
Honeywell Safety Products

111-1254 + 111-1210

This combination offers both strength and durability. The visors are suitable for different kinds of applications.

- Lightweight - comfortable enough to wear all day
- Integral visor fitting ensures extra protection against chemical seepage
- Economical replaceable visor available in acetate or PC (PC: High impact; Acetate: Chemical resistant)

Weight: 160 g

Visor: 200 mm

EN 166

Ordering information: To be ordered separately: Visor, brow guard and chin guard.

Type	Material	Pk	Cat. No.
Visors			
Impact and splash resistant	PC	1	**111-1254**
Chemical resistant	Acetate	1	**111-1253**
Chemical resistant, anti-fog	Acetate	1	**111-1360**
Welding protection, shade 3, green	Acetate	1	**111-1361**
Chemical resistant, for use with chin guard	Acetate	1	**111-3550**
Impact and splash resistant, for use with chin guard	PC	1	**111-1359**

Description	Pk	Cat. No.
Brow guard		
Brow guard with ratchet headband	1	**111-1210**
Brow guard with elastic headband	1	**111-3549**
Chin guard		
Chin guard, for use with face shield	10	**111-1358**

Face shields, Bionic™
Honeywell Safety Products

This innovative face shield provides protection from extreme mechanical hazards. It can be worn in combination with safety spectacles or respiratory protection.

- With extended protection for brow and chin
- Locking mechanism for added safety
- Extra soft padding with washable or replaceable sweatband
- Various adjustments for best comfort

Weight: 355 g

EN 166, EN 169, EN 170, 1 F, B, T, C, 3, 8, 9

Type	Material	Pk	Cat. No.
Uncoated	PC	1	**111-0133**
Anti-scratch, anti-fog	PC	1	**111-0134**
Uncoated	Acetate	1	**111-0252**

Description	Material	Pk	Cat. No.
Accessories			
Replacement visor, uncoated	PC	1	**111-0740**
Replacement visor, anti-scratch/anti-fog	PC	1	**111-1293**
Replacement sweatband		1	**113-8053**

Face shields, Nalgene®
Thermo Scientific

The clear 1,5 mm thick polycarbonate shield offers impact and splash protection. Designed specifically for laboratory applications.

- Protects face and neck from UV rays with a wavelength of 200 - 360 nm
- Adjustable polyethylene headrest for comfort
- For use over safety goggles

EN 166

Type	Material	L×W (mm)	Pk	Cat. No.
Impact and splash resistant	PC	293×490	1	**113-2800**

European standards for hearing protection

Directive 2003/10/EC (supersedes Directive 86/188/EEC)

What actions should be taken to comply with the Directive?

- Assess noise levels to determine if they exceed the new action levels
- Endeavour to reduce hazardous noise exposures at their source by means of engineering or administrative controls
- If noise cannot be reduced to safe levels, use hearing protectors (earplugs or earmuffs) to protect workers exposed to noise

Action levels and exposure limits

Protective measures are required at these exposure levels.

SNR (Single Number Rating)

This rating number is used by the European Union and affiliated countries.
Tests are conducted at independent testing laboratories, using test frequencies which are slightly different than those used for the NRR rating.
In addition to an overall rating, the SNR further rates protectors in terms of the particular noise environments in which they will be used:

- H for high frequency noise environments
- M for mid frequency
- L for low frequency

Note that the HML designation does not refer to noise level, rather the spectrum of the noise. For example, a protector might be designated with SNR 26, H = 32, M = 23, L =14. The estimated attenuation changes according to the noise spectrum of the environment in which the protector is to be worn.

Norms

Earplugs

EN 352-2 – Earplugs

Earmuffs

EN 352-1 – Earmuffs

EN 352-3 – Helmet mounted earmuffs

EN 352-4 – Level dependent earmuffs

EN 352-8 – Earmuffs with radio

Protective measures	Daily 8 hour exposure	Peak exposure
Lower exposure action level	**80 dBA**	**135 dBC**
Variety of hearing protectors must be made available to noise exposed workers (voluntary usage)		
Audiometric screening must be made available to workers whose exposure indicates a risk to health		
Training must be provided in the risks of noise, correct use of hearing protectors, detection of hearing damage, provisions of health surveillance and safe working practices to minimise noise exposure		
Upper exposure action level	**85 dBA**	**137 dBC**
Variety of hearing protectors must be made available to noise exposed workers, and usage enforced		
Audiometric evaluation by a doctor must be made available to exposed workers		
Warning signs must be posted in noisy areas		
Exposure limit value	**87 dBA**	**140 dBC**
Maximum allowable noise level in the ear with all protective measures in place		
Protected noise exposures under hearing protection may not exceed this level		
Include the attenuation provided by hearing protectors when estimating this value		

Disposable earplugs, 1100/1110

3M

Foam, with or without cord

Soft, smooth, dirt resistant foam earplugs mould to the unique shape of each ear for excellent hearing protection. The tapered shape allows for a comfortable fit for a wide range of ear sizes.

- Bright orange to enhance visibility
- Can be combined with ear muffs
- Available with cord for easy removal and retrieval

SNR: 37 dB

EN 352-2

Description	Type	Colour	Size	Pk	Cat. No.
Earplugs, without cord	1100	Orange	U*	200 PAIR	**111-1021**
Earplugs, with cord	1110	Orange	U*	100 PAIR	**111-1022**
Earplugs in aluminium box (2 pairs)	1100DS	Orange	U*	1 SET	**111-1023**

*One size fits all

Disposable earplugs, 1120/1130
3M

Foam, with or without cord

These are manufactured from a hypo-allergenic foam material which applies low pressure in the ear canal for added comfort.

- Articulated shape for improved fit, keeps the earplugs snug and securely positioned
- Earplugs fit small ear canals
- Bright orange in colour for simple compliance checks

SNR: 34 dB

EN 352-2

Description	Colour	Size	Pk	Cat. No.
Earplugs 1120, without cord	Orange	U*	200 PAIR	**111-0037**
Earplugs 1130, with cord	Orange	U*	100 PAIR	**111-0038**

*One size fits all

Disposable earplugs, E-A-R™ Classic™
3M

111-1060

111-0837

Foam, with or without cord

These roll-down earplugs are made from a soft, energy absorbing polymer foam which provides excellent hearing protection and all-day comfort. Ideal for use where noise is a problem either in work or leisure activities. Also available in a corded version.

- Firm material with slow recovery time helps to achieve good fit
- Sweat and humidity resistant which improves comfort
- Very economical as the earplugs can be cleaned up to three times

SNR: 28 dB

EN 352-2

Description	Colour	Size	Pk	Cat. No.
Earplugs, without cord, pillow pack	Yellow	U*	250 PAIR	**111-0934**
Earplugs, without cord, small bag of 5 pairs	Yellow	U*	250 PAIR	**111-0837**
Earplugs, with blue polymer cord	Yellow	U*	200 PAIR	**111-1067**

*One size fits all

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Disposable earplugs, E-A-R™ Classic II™
3M

Foam, without cord

Classic II earplugs are made from soft, energy-absorbing polymer foam that effectively seals off the ear canal and ensures all-day comfort.

- Adapt to fit most ear canals
- Moisture-proof, prevents slippage due to perspiration
- Roughened surface prevents slippage and ensures reliable protection
- Dermatologically safe foam is non irritating

SNR: 28 dB

EN 352-2

Description	Colour	Size	Pk	Cat. No.
Earplugs, without cord, Top Up, for One-Touch dispenser	Yellow	U*	500 PAIR	**111-1102**

Description	Pk	Cat. No.
Accessories		
E-A-R™ One-Touch™ dispenser, free-standing or for wall-mounting	1	**111-0589**

*One size fits all

Disposable earplugs, E-A-R™ Classic™ Soft
3M

Foam, without cord

These earplugs feature a unique PU foam combination which warms to the body temperature and becomes softer, thus allowing the earplug to mould to the individuals ear canal shape. The earplugs therefore provide even more comfort to the end user than the other Classic™ earplugs.

- Provide an efficient seal due to the moulding of the earplug to the ear canal
- Textured surface provides greater friction which improves grip and helps maintain an effective seal
- Earplug is resistant to moisture, making it ideal for hot and humid working environments

SNR: 36 dB

EN 352-2

Description	Colour	Size	Pk	Cat. No.
Soft earplugs, without cord, packed in pillow packs	Yellow	U*	200 PAIR	**111-0849**
Soft earplugs, without cord, 200 pairs per box	Yellow	U*	200 PAIR	**111-1104**
Soft earplugs, with cord, 200 pairs per box	Yellow	U*	200 PAIR	**111-1105**

*One size fits all

Disposable earplugs, Laser Trak®
Howard Leight by Honeywell

Polyurethane foam, with cord

These earplugs offer a high visibility and metal detection.

- T-shape provides easy handling and comfortable long-term use
- Self-adjusting foam expands to fit virtually any wearer
- Non ferrous metal and bright colours; easily detected by visual and automated inspection

SNR: 35 dB

EN 352-2

Description	Colour	Size	Pk	Cat. No.
Earplugs, with cord	Blue/Orange	U*	100 PAIR	**111-0141**

*One size fits all

Disposable earplugs, Bilsom 303
Howard Leight by Honeywell

LS-400

Polyurethane foam, without cord

Moulded PVC free foam plugs are available in two sizes to ensure a proper and comfortable fit. Available bulk packed, as individual pairs or as 400 pairs within the LS-400 dispenser.

- Conical shape for easy insertion
- Smooth outer surface for better hygiene
- Transparent dispenser for convenience

SNR: 33 dB

EN 352-2

Description	Colour	Size	Pk	Cat. No.
Earplugs, packed in pairs	Yellow	S	200 PAIR	**111-3564**
Earplugs, packed in pairs	Yellow	L	200 PAIR	**111-3560**
Earplugs, bulk packed	Yellow	S	200 PAIR	**111-1292**
Earplugs, bulk packed	Yellow	L	200 PAIR	**111-1291**
Earplug dispenser LS-400 with 400 plugs	Yellow	S	400 PAIR	**111-1288**
Earplug dispenser LS-400 with 400 plugs	Yellow	L	400 PAIR	**111-1287**

Disposable earplugs, Laser Lite®
Howard Leight by Honeywell

LS-400

Foam, with or without cord

Laser Lite® earplugs offer optimal comfort for long-term wear.

- Bright colours for high visibility
- Self-adjusting foam to fit virtually every user
- T-shape for easy insertion and wear

SNR: 35 dB

EN 352-2

Description	Colour	Size	Pk	Cat. No.
Earplugs, without cord, packed in pairs	Yellow/Red	U*	200 PAIR	**111-0137**
Earplugs, with cord, packed in pairs	Yellow/Red	U*	100 PAIR	**111-0138**
Earplugs without cord, bulk packaging, refill for dispenser LS-400	Yellow/Red	U*	200 PAIR	**111-0395**

Description	Pk	Cat. No.
Accessories		
Earplug dispenser, Leight® Source LS-400, supplied empty, for 400 pairs without cord	1	**111-0393**

*One size fits all

Disposable earplugs, Max®
Howard Leight by Honeywell

Polyurethane foam, with or without cord

Max® earplugs offer superior noise blocking performance in a disposable earplug.

- Bell shape provides maximum ear comfort
- Improved design is easier to insert
- Smooth, soil resistant covering prevents dirt penetrating the surface prior to insertion

SNR: 37 dB

EN 352-2:2002

Description	Colour	Size	Pk	Cat. No.
Earplugs, without cord	Red	U*	200 PAIR	**111-0140**
Earplugs, with cord	Red	U*	100 PAIR	**111-0139**
Earplugs, without cord, refills for dispenser LS-400	Red	U*	200 PAIR	**111-0394**

Description	Pk	Cat. No.
Accessories		
Earplug dispenser, Leight® Source LS-400, supplied empty, for 400 pairs without cord	1	**111-0393**

*One size fits all

Disposable earplugs, SparkPlugs®
Moldex

PocketPak

MoldexStation

Polyurethane foam, with or without cord

SparkPlugs® earplugs are made of a soft foam which becomes firmer when rolled for insertion.

- Tapered shape fits easily in the ear canal and seals gently and snugly without pressure
- Appealing colours
- Also available in the hygienic MoldexStation dispenser system

SNR: 35 dB

EN 352-2:2002

Description	Size	Pk	Cat. No.
Tapered earplugs, without cord, packed in pairs	U*	200 PAIR	**111-1171**
Tapered earplugs, with cord, packed in pairs	U*	200 PAIR	**111-1172**
Tapered earplugs, without cord, in PocketPak container	U*	200 PAIR	**111-1173**
Tapered earplugs, without cord, in hygienic MoldexStation dispenser	U*	250 PAIR	**111-1174**
Tapered earplugs, without cord, in hygienic MoldexStation dispenser	U*	500 PAIR	**111-1175**

Description	Pk	Cat. No.
Accessories		
Wall mounting bracket for MoldexStation earplug dispenser	1	**111-0724**

*One size fits all

Reusable earplugs, 1261/1271
3M

With or without cord

Earplugs manufactured from a soft elastic material to ensure a secure and comfortable fit. They have a unique design for easier insertion and are supplied with a pocket case to protect the earplugs and keep them clean.

- Plugs can be inserted without squashing
- Can be washed and reused many times
- Ideal for dirty or dusty environments

SNR: 25 dB

EN 352-2

Description	Colour	Size	Pk	Cat. No.
Earplugs 1261, without cord	Orange	U*	50 PAIR	**111-0039**
Earplugs 1271, with cord	Orange	U*	50 PAIR	**111-0040**

*One size fits all

Reusable earplugs, Fusion™
Howard Leight by Honeywell

With cord

Fusion™ earplugs provide a combination of all-day comfort and easy handling.

- Patented dual material design
- Two sizes provide optimal fit and safety
- Unique detachable cord system

SNR: 28 dB

EN 352-2

Description	Colour	Size	Pk	Cat. No.
Earplugs, with cord	Blue/Yellow	S	50 PAIR	**111-0084**
Earplugs, with cord	Blue/Yellow	L	50 PAIR	**111-0115**

Banded earplugs, 1310
3M

These earplugs are ideal for long periods of use with changing noise levels.

- Flexible band design helps maintain a constant yet comfortable low pressure irrespective of head size
- Can be worn behind the head or under the chin
- Round plugs do not enter the ear canal for better hygiene
- Replacement plugs are economical and easy to fit

SNR: 26 dB

EN 352-2

Description	Colour	Pk	Cat. No.
Earplugs, banded	Black/Orange	10	**111-1031**

Description	Pk	Cat. No.
Accessories		
Replacement plugs for banded earplugs 1310	20	**111-1032**

Earmuffs, Peltor™ X Series
3M

The Peltor™ X Series earmuffs combine excellent protection with ultimate comfort. They are available in headband and helmet-mounted versions offering a wide range of attenuation levels that meet the needs of the majority of industrial applications.

- Soft wide cushions reduce pressure around the ears and improve comfort and wearability
- Slimline, dual moulded cups
- Large space inside cups reduces moisture and heat build-up
- Electrically insulated wire headband
- Colour coded cups: Easy to identify level of attenuation

Model	SNR	Type	Application	Cup colour
X1A	27 dB	Standard headband	Lawn mowing, power drilling	Green
X1P3	26 dB	Helmet-mounted	Lawn mowing, power drilling	Green
X2A	31 dB	Standard headband	Construction, manufacturing industry	Yellow
X2P3	30 dB	Helmet-mounted	Construction, manufacturing industry	Yellow
X3A	33 dB	Standard headband	Forestry, industry, airports, engineering	Red
X3P3	32 dB	Helmet-mounted	Forestry, industry, airports, engineering	Red
X4A	33 dB	Standard headband	Industry	Light green
X4P3	32 dB	Helmet-mounted	Industry	Light green
X5A	37 dB	Standard headband	Mining, quarrying, paper manufacturing, gas turbines	Black
X5P3	36 dB	Helmet-mounted	Mining, quarrying, paper manufacturing, gas turbines	Black

Description	Pk	Cat. No.
Earmuffs, Peltor™ X1A, with headband	1	**111-1131**
Earmuffs, Peltor™ X1P3, helmet-mounted	1 PAIR	**111-1132**
Earmuffs, Peltor™ X2A, with headband	1	**111-1133**
Earmuffs, Peltor™ X2P3, helmet-mounted	1 PAIR	**111-1134**
Earmuffs, Peltor™ X3A, with headband	1	**111-1135**
Earmuffs, Peltor™ X3P3, helmet-mounted	1 PAIR	**111-1136**
Earmuffs, Peltor™ X4A, with headband	1	**111-1137**
Earmuffs, Peltor™ X4P3, helmet-mounted	1 PAIR	**111-1138**
Earmuffs, Peltor™ X5A, with headband	1	**111-1139**
Earmuffs, Peltor™ X5P3, helmet-mounted	1 PAIR	**111-1141**

European standards for head protection

Standards

EN 397

Helmets for general use in industry to protect the wearer against falling objects and consequential brain injury and/or skull fracture.

EN 812

Bump caps protect the wearer against the effects of striking the head/scalp against hard or sharp stationary objects. Not intended to provide protection against effects of falling, thrown objects or moving suspended loads.

Markings

All safety helmets and bump caps sold in Europe are certified as European Personal Protective Equipment and have the following symbols as a guarantee of quality:

- CE mark
- Date of manufacture (day/month/year)
- Product mould number
- Shift number
- Material and properties
- Size of helmet

Maintenance

- Clean your helmet regularly with soap, water and a soft cloth.
- Store out of direct sunlight (between 5 and 25 °C).
- Keep your helmet away from chemicals like paint and solvents.
- Inspect the quality of your helmet regularly and replace if necessary.
- Replace your helmet once every 5 years.
- The helmet harness must be replaced every year.

Safety helmets, Eco 1100
Centurion Safety

Protective helmet with helmet shell made from high density polyethylene (HDPE). For use in construction and industry.

- With six point LDPE inner cradle
- Ear protection, face protection shield and chin strap available as accessories

Size: 510 – 630 mm

Weight: 375 g

EN 397, 440 V, –10 °C, lateral deformation (LD), molten metal (MM)

Description	Colour	Pk	Cat. No.
Safety helmet, unvented, UK	Blue	1	**111-1502**
Safety helmet, unvented, UK	White	1	**111-1512**
Safety helmet, unvented, UK	Yellow	1	**111-1513**

Eco 1125 protective helmets
Centurion Safety

Impact resistant protective helmet with helmet shell made from high density polyethylene (HDPE). Suitable for the construction industry.

- With six point terylene inner cradle
- Front sweatband made from brushed nylon fabric
- Ear protection, face protection shield and chin strap available as accessories

Size: 510 – 630 mm

Weight: 365 g

EN 397 (unvented version); Electrical Resistance and Molten Metal applicable to unvented shells only.

Description	Colour	Pk	Cat. No.
Unvented (UK version)			
Safety helmet, unvented, UK	Blue	1	**111-1260**
Safety helmet, unvented, UK	Green	1	**111-1301**
Safety helmet, unvented, UK	Orange	1	**111-1303**
Safety helmet, unvented, UK	Red	1	**111-1304**
Safety helmet, unvented, UK	White	1	**111-1305**
Safety helmet, unvented, UK	Yellow	1	**111-1306**

Bump caps, Bump Cap™ S19
Centurion Safety

This polyethylene cap is ideal for use in the food industry and in other areas where textile clothing materials are not allowed for reasons of hygiene and where sterility is required.

- With three point plastic inner cradle
- Sweatband made from PVC, LDPE headband and interiors are washable and replaceable
- Lightweight and durable
- Outer shell is easily washable

Size: 54 – 59 cm

Weight: 195 g

BS EN 812: 1997; amendment no. 1 (2001) with CE marking

Description	Colour	Pk	Cat. No.
Bump Cap™ for the food industry	Blue	1	**111-0959**
Bump Cap™ for the food industry	Green	1	**111-0960**
Bump Cap™ for the food industry	Orange	1	**111-0961**
Bump Cap™ for the food industry	Red	1	**111-0962**
Bump Cap™ for the food industry	White	1	**111-0963**
Bump Cap™ for the food industry	Yellow	1	**111-0964**

European standards for respiratory protection

Respirators are tested to the relevant European Standards and CE marked.
All respirators carry the CE mark plus the European Standard and performance category markings.

EN 149:2001+A1:2009: Filtering face piece and particulate respirators

- NR Non reusable (single shift only)
- R Reusable (must withstand cleaning and disinfecting)
- Suffix D Optional Dolomite clogging test
- Dolomite-tested: Test demonstrating the respirator's resistance to clogging over time. This ensures better
- breathing comfort and less worker fatigue.

EN 405 Valve filtering half mask respirators for gases and/or particulates
EN 140 Half mask face pieces
EN 136 Full face pieces
EN 137 Self-contained open circuit compressed air breathing apparatus
EN 143 Particulate filters
EN 146 Powered respirators, hoods and helmets
EN 147 Powered respirators, full face masks
EN 270 Supplied air, heavy duty
EN 371 Gas and/or combined filters for use against low boiling organic compounds
EN 402 Escape apparatus. SCBA with full face mask or mouthpiece assembly
EN 529 Respiratory selection, use and care
EN 1146 Compressed air escapes apparatus with hood
EN 1835 Supplied air, light duty
EN 12941 Powered respirators, hoods and helmets
EN 12942 Powered respirator, full face masks
EN 14387 Gas and vapour filters

Classification particulate filters

FF Filtering respiratory face mask (FFP1 – FFP2 – FFP3)
TM Turbo mask (only for half or full face masks with air supply)
TH Turbo hood (only for protective hoods or helmets with air supply)

Class	Filter penetration limit	Inward leakage	APF *
1 - P1/FFP1 - To protect against coarse solid particles without specific toxicity	Filters at least 80% of airborne particles	<22%	4x
2 - P2/FFP2 - To protect against solid and/or liquid aerosols identified as hazardous or irritating	Filters at least 94% of airborne particles	<8%	10x
3 - P3/FFP3 - to protect against toxic solid and/or liquid aerosols	Filters at least 99% of airborne particles	<2%	20x

* APF (Assigned Protection Factor)

Classification for gas and vapour filters

A1/B1 - Low capacity filter
A2/B2 - Medium capacity filter
A3/B3 - High capacity filter

Filter class	Capacity	Max. concentration toxic substance in the polluted air
A1/B1	Low	0,1 vol. % (1000 ppm)
A2/B2	Medium	0,5 vol. % (5000 ppm)
A3/B3	High	1,0 vol. % (10000 ppm)
Type of particle, gas and vapour filters		
Colour	**Filter type**	**Substance**
White	P	Particles
Brown	A	Organic gases and vapours (BP >65 °C)
Grey	B	Inorganic gases and vapours (excl. carbon monoxide CO)
Yellow	E	Sulphur dioxide and other acid gases and vapours
Green	K	Ammonia and organic ammonia derivatives
Red	Hg - incorporates P3 filter, for single use only	Mercury
Blue	NO – incorporates P3 filter for single use only	Oxides of nitrogen
Brown	AX single use only	Organic gases and vapours (BP ≤65 °C)
Violet	SX + the name of the chemical	Filters against specific substances as specified by the manufacturer

Particle filtering half masks

Disposable, FFP2

These masks guarantee protection against particulates, dust and aerosols. For use against non toxic to low toxicity solid and liquid aerosols.

- Exhalation valve fitted with the exclusive "butterfly" opening-closing system
- Extra light
- Latex and PVC free

EN 149:2001; EG 89/686 (11.B)

Class	With valve	Size	Pk	Cat. No.
FFP2	No	U*	20	**113-0645**
FFP2	Yes	U*	10	**113-0646**

*One size fits all

Particle filtering half masks, Classical and Comfort series
3M

Disposable, FFP1/FFP2

The convex shape of the face mask with twin strap design, foam nose seal and aluminium nose clip ensures a good face seal over a wide range of face sizes.

- Provides lightweight, effective, comfortable and hygienic respiratory protection
- Durable, collapse resistant inner shell
- Exempt from costly time-consuming maintenance requirements

EN 149:2001; EU Directive 89/686; 10/11B

Type	Class	With valve	Size	Pk	Cat. No.
8710	FFP1	No	U*	20	**111-0100**
8810	FFP2	No	U*	20	**111-3001**
8812	FFP1	Yes	U*	10	**111-0101**
8822	FFP2	Yes	U*	10	**111-0102**

* One size fits all

Particle filtering half masks, Aura™ 9300+
3M

Disposable, FFP1/FFP2/FFP3

Ingenious 3-panel design fits a wide range of face shapes and sizes.

- Low breathing resistance filter technology gives effective filter performance whilst providing improved comfort
- Cool Flow™ valve effectively removes heat build-up, removes exhaled air and minimises the risk of fogging eyewear
- Innovative chin tab improves ease of donning and adjustment to help achieve a comfortable fit
- Flat-fold; easy to store when not in use
- Sculpted nose panel for improved compatibility with eyewear

EN 149:2001+A1:2009

Type	Class	With valve	Size	Pk	Cat. No.
9310+	FFP1D NR	No	U*	20	**111-0713**
9312+	FFP1D NR	Yes	U*	10	**111-0714**
9320+	FFP2D NR	No	U*	20	**111-0715**
9322+	FFP2D NR	Yes	U*	10	**111-0716**
9330+	FFP3D NR	No	U*	20	**111-0717**
9332+	FFP3D NR	Yes	U*	10	**111-0684**

*One size fits all

Particle filtering half masks, Aura™ 9400+
3M

Disposable, FFP2/FFP3

3-panel design fits a wide range of face shapes and sizes to accommodate individual facial movements.

- Staple-free: Helps to minimise contamination risks
- Metal detectable: Embedded metal noseclip to help ensure production safety
- Concealed adjustable nose clip: Kept securely in place within the layers of the respirator
- Cool Flow™ valve effectively removes heat build-up, removes exhaled air and minimises the risk of fogging eyewear
- Flat-fold; easy to store when not in use

Colour: Blue

EN 149:2001+A1:2009

Type	Class	With valve	Size	Pk	Cat. No.
9422+	FFP2D NR	Yes	U*	10	**111-0718**
9432+	FFP3D NR	Yes	U*	10	**111-0719**

*One size fits all

Particle filtering half masks, Premium series
3M

Disposable, FFP2/FFP3

- Exceptional comfort due to an advanced soft facepiece sealing ring which provides a good fit over a wide range of face sizes
- A large surface area providing maximum filtration but minimising the build-up of hot air inside the facepiece
- Exhalation valve reduces moisture build-up in certain work conditions
- Four point adjustable straps and adjustable nose clip to ensure a comfortable and properly sealed fit

EN 149:2001

Type	Class	With valve	Size	Pk	Cat. No.
8825	FFP2D	Yes	U*	5	**111-3011**
8835	FFP3D	Yes	U*	5	**111-3022**

*One size fits all

Particle filtering half masks, speciality series
3M

Disposable, FFP1/FFP2/FFP3

This range provides lightweight, effective, comfortable and hygienic protection from dust and aerosols. The masks also protect against low concentrations (nuisance levels) of organic fumes or acid gases such as sulphur dioxide or hydrogen fluoride, below the Workplace Exposure Limit (WEL) (depending on the type of mask).

- Convex design, double strap, foam nose protector and aluminium nosepiece for secure fitting on any face shape
- Patented 3M™ Cool Flow™ valve on models "with valve" and collapse resistant shell available on all models
- No expensive or time-intensive maintenance is required

EN 149:2001+A1:2009

Type	Class	With valve	Size	Pk	Cat. No.
9906 - hydrofluoric acid	FFP1	No	U*	20	**111-8934**
9913 - organic odours	FFP1	No	U*	20	**111-0031**
9914 - organic odours	FFP1	Yes	U*	10	**111-8935**
9915 - acid gases	FFP1	No	U*	20	**111-8936**
9926 - acid gases	FFP2	Yes	U*	10	**111-8938**

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Type	Class	With valve	Size	Pk	Cat. No.
9928 - welding fumes	FFP2	Yes	U*	10	**111-0030**
9922 - ozone gases	FFP2	Yes	U*	10	**111-0917**
9936 - acid gases	FFP3	Yes	U*	5	**111-0452**

*One size fits all

Particle filtering half masks, health care, Aura™ 1883+
3M

Disposable, FFP3

Unique FFP3 respirator with two-way protection and added exhalation valve for comfort.

- 3 panel design for increased comfort with the added convenience of an individually wrapped foldable product
- Includes shrouded valve fitted to the front of the respirator, which prevents heat and moisture build-up from exhaled breath
- Meets requirements and testing for Bacterial Filtering Efficiency (BFE) and Splash Resistance
- Red colour coded straps to denote FFP3 protection level

Highest Protection Level. Assigned Protection Factor = 20

Type	Class	With valve	Size	Pk	Cat. No.
1883+	FFP3	Yes	U*	8	**111-1525**

*One size fits all

Particle filtering half masks, 8300 series
3M

Disposable; FFP1, FFP2

Lightweight respirators with robust outer shell and braided headband offer high durability. Ideal for paint, construction, cement and metal working industries.

- Breathability thanks to 3M™ Advanced Electret filter material
- Cool Flow™ valve on models "with valve" reduces heat and moisture build-up to offer workers comfortable protection, even in hot and humid conditions (only for 8312 and 8322)
- Noseclip is quick and easy for wearers to mould around the nose offering greater comfort
- Colour coded headbands offer easy protection level identification (FFP1 = yellow; FFP2 = blue; FFP3 = red)
- Flexible, textured edges, super-soft, cushioned inner lining and braided headband for a comfortable and secure fit

EN 149:2001 + A1:2009 FFP1/FFP2 NR D

Type	Class	With valve	Size	Pk	Cat. No.
8310	FFP1D NR	No	U*	10	**111-0913**
8312	FFP1D NR	Yes	U*	10	**111-0914**
8320	FFP1D NR	No	U*	10	**111-0915**
8322	FFP2D NR	Yes	U*	10	**111-0916**

* One size fits all

Particle filtering half masks, 8833
3M

Disposable, FFP3

The robust shell and cup design of the mask conforms well to most face shapes and sizes, and maintains its shape during use. The excellent fit is provided by the convex shape, the nose clip, and the twin-strap design.

- Cool Flow™ valve reduces heat build-up to offer comfortable protection, particularly in hot and humid conditions
- Soft inner face-seal ring provides secure face fit and increases wearer comfort
- Reliable, effective protection against fine particulates
- Comfortable, lightweight off-the-face design
- Red colour coded straps denoting FFP3 protection level

EN 149:2001 FFP3, Maximum use level: Assigned Protection Factor: 20 × WEL (Nominal Protection Factor 50 × WEL).

Type	Class	With valve	Size	Pk	Cat. No.
8833	FFP3	Yes	U*	10	**111-0451**

*One size fits all

Particle filtering half masks, VFlex™
3M

Disposable, FFP2

This lightweight and flexible half mask provides effective respiratory protection against dust and mist (up to 12×TLV for particulates) at low costs. The V-shaped pleats flex and expand with the mouth movement and therefore enable easier talking and breathing. Positioning tabs, the adjustable nose clip and a choice of two different sizes also help to achieve a custom fit.

- Embossed front panel helps the respirator retain its shape away from the mouth
- Spacious and comfortable inside, with minimal impact on field of vision
- Flat-fold convenience – convenient storage prior to use

EN149:2001; A1:2009 FFP2 NR D

Type	Class	With valve	Size	Pk	Cat. No.
9152	FFP2	No	M/L	50	**111-0671**
9152S	FFP2	No	S	50	**111-0672**

Particle filtering half masks, 4000 series
Honeywell Safety Products

Disposable, FFP1/FFP2/FFP3

Individually wrapped fold-flat respirators with the exclusive features of the Willson 5000 series: ultra-soft seal, new exhalation valve, latex, PVC, silicone-free materials.

- 5 models in a fold-flat style presented in hygienic individual sachets printed with user instructions
- Can be conveniently stored in a pocket
- Fold and hold mechanism preventing contaminants from entering the masks when not in use
- Chin piece specifically designed to allow users normal movement during speech

EN149:2001

Type	Class	With valve	Size	Pk	Cat. No.
4110	FFP1D NR	No	M/L	20	**111-1273**
4111	FFP1D NR	Yes	M/L	10	**111-1274**
4210	FFP2D NR	No	M/L	20	**111-1277**
4211	FFP2D NR	Yes	M/L	10	**111-1278**
4311	FFP3D NR	Yes	M/L	10	**111-1279**

Particle filtering half masks, 5000 series
Honeywell Safety Products

Disposable, FFP1/FFP2/FFP3

- Ultra-soft seal providing a soft textile sensation on the skin, absorbing perspiration, ensuring a good seal; hypoallergenic qualities
- 'Butterfly' exhalation valve offering maximum frontal protection on the valve membrane while also providing minimal exhalation resistance
- Latex-free, PVC-free and silicone-free materials
- Dolomite-tested: Test demonstrating the respirator's resistance to clogging over time. This ensures better breathing comfort and less worker fatigue

Colour codes:
FFP1D: Yellow, FFP2D: Green, FFP3D: Orange, FFP1D-OV: Brown for Organic Vapours (for FFP1D, FFP2D), FFP1D-AV: Blue for Acid gases and Vapours (for FFP1D, FFP2D)

EN 149:2001

Type	Class	With valve	Size	Pk	Cat. No.
5110	FFP1D NR	No	M/L	20	**111-3546**
5111	FFP1D NR	Yes	M/L	20	**111-3552**
5140	FFP1D-OV	No	M/L	20	**111-3569**
5141	FFP1D-OV	Yes	M/L	20	**111-3570**
5161	FFP1D-AV	Yes	M/L	20	**111-3574**
5210	FFP2D NR	No	M/L	20	**111-3556**
5211	FFP2D NR	Yes	M/L	20	**111-3562**
5221	FFP2D NR	Yes	M/L	5	**111-1275**
5251	FFP2D-OV	Yes	M/L	5	**111-3572**
5261	FFP2D-AV	Yes	M/L	20	**111-3576**
5321	FFP3D NR	Yes	M/L	5	**111-3571**

"NR" marking = non reusable

Particle filtering half masks, Classic series
Moldex

Disposable, FFP1/FFP2/FFP3

Classic FFP masks protect against dust, mist and fumes.

- Proven shape and durable FFP mask
- DuraMesh® - strong and durable structure, keeps the mask in shape
- ActivForm® - no nose clip needed
- Loop strap for quick, simple and safe on and off

EN 149:2001+A1:2009

Type	Class	With valve	Pk	Cat. No.
2360	FFP1	No	20	**111-1142**
2365	FFP1	Yes	20	**111-0525**
2400	FFP2	No	20	**111-0532**
2405	FFP2	Yes	20	**111-0533**
2555	FFP3	Yes	20	**111-1143**

Particle filtering half masks, Smart
Moldex

Disposable, FFP1/FFP2

Moulded particulate filtering masks without valve or with different valve variations.

- With comfortable nose seal
- DuraMesh® - strong and durable structure, keeps the mask in shape
- ActivForm® - no nose clip needed
- Loop strap with clip for quick, simple and safe on and off

EN 149:2001+A1:2009

Type	Class	With valve	Size	Pk	Cat. No.
2380	FFP1D NR	No	U*	20	**111-0528**
2385	FFP1D NR	Yes	U*	20	**111-0529**
2435 (particles and organic gasses)	FFP2D NR	Yes	U*	10	**111-0535**
2445 (particles and ozone)	FFP2D NR	Yes	U*	10	**111-0536**

*One size fits all

Particle filtering half masks, Smart Pocket
Moldex

Disposable, FFP1/FFP2/FFP3

Folded particulate filtering masks with or without valves.

- Easily unfolds in a quick one step process
- Comfortable nose seal
- DuraMesh® - strong and durable structure, keeps the mask in shape
- ActivForm® - no nose clip needed
- Loop strap with clip for quick, simple and safe on and off
- Individually packaged

EN 149:2001+A1:2009

Type	Class	With valve	Size	Pk	Cat. No.
2375	FFP1D NR	Yes	U*	10	**111-0527**
2470	FFP2D NR	No	U*	10	**111-0537**
2575	FFP3D NR	Yes	U*	10	**111-1144**

*One size fits all

Particle filtering half masks, Medical Mask
Moldex

Disposable, FFP2/FFP3

These air masks, without exhalation valves, are medical masks and FFP masks in one. They offer protection for both the wearer and their surroundings. Due to the Moldex pleated filter technology, the masks combine the filtering performance of an FFP mask with the low breathing resistance of a conventional medical mask.

- Combined FFP mask and medical mask
- Significantly reduced breathing resistance, high filter capacity, longer usage time
- Available in two sizes
- DuraMesh® - strong and durable structure, keeps the mask in shape
- ActivForm® - no nose clip needed
- Comfortable nose seal and loop strap with clip
- Individually packaged

Protection for the wearer: Against airborne contaminants (FFP2 NR and FFP3 NR according to PPE standard EN 140:2001); against liquid splashes (splash resistant, type IIR according to medical standard EN 14683:2005)

Protection for the surroundings: 98% filter efficiency against bacteria (type II according to medical standard EN 14683:2005)

EN 149:2001+A1:2009 and tested and certified to the medical standard EN 14683:2005

Type	Class	With valve	Size	Pk	Cat. No.
3150	FFP2D NR	No	S/M	10	**111-1146**
3100	FFP2D NR	No	M/L	10	**111-1145**
3250	FFP3D NR	No	S/M	10	**111-1148**
3200	FFP3D NR	No	M/L	10	**111-1147**

Half masks against gases, vapours and particulates, 4000 series
3M

Disposable

These respirators provide effective protection combined with exceptional comfort.

- Fully disposable
- Integral construction offers reliable protection
- Parabolic valve reduces breathing resistance whilst preventing heat build-up

Weight: 222 g

EN 405:2001+A1:2009

Type	Class	Size	Pk	Cat. No.
4251	A1P2D	U*	1	**111-0041**
4255	A2P3D	U*	1	**111-0042**
4277	ABE1P3D	U*	1	**111-0043**
4279	ABEK1P3D	U*	1	**111-0044**

*One size fits all

Half masks against gases, vapours and particulates, Freedom
Honeywell Safety Products

Disposable

Half face masks with integrated filters for occasional or frequent exposures to gases, vapours and particulates.

- Quick and easy adjustment
- Excellent fit and comfort due to a soft seal flange
- Disposable - no maintenance, better hygiene and no filter handling
- Expiration valve for easier breathing

Weight: 265 g

EN 405, EN 149: 2001

E: Acidic gases, e.g. sulphur dioxide, hydrogen chloride

Class	Size	Pk	Cat. No.
A1	U*	1	**111-3531**
A1P1	U*	1	**111-3534**
P3 R	U*	1	**111-3538**
ABEK1P3 R	U*	1	**111-3539**

*One size fits all

Half masks, Valuair
Honeywell Safety Products

Reusable

'Economy'

Silicone-free half masks, with a texture that combines comfort and exceptional impermeability for facial protection.

- Double side filter system ensures improved visibility
- Easy, secure fitting with the 'click-fit' mechanism

Filter connection: Twin bayonet

Weight: 109 g (size M)

'Premier'

- Half mask made from supple silicone for good flexibility, comfort and resistance
- Perspiration evacuation hole to prevent skin irritation
- Simplified fastening mechanism

Weight: 140 g (size M)

EN 140

Ordering information: Valuair half masks are designed for use with the Honeywell range of filter cartridges (111-3540, 111-3528, 111-3529, 111-3530).

Type	Size	Pk	Cat. No.
Economy	M	1	**111-3520**
Economy	L	1	**111-3524**
Premier	M	1	**111-3525**
Premier	L	1	**111-1348**

Gas, vapour and particle filters for half and full face masks
Honeywell Safety Products

Gas filters with bayonet attachment for use with half masks.

- Easy to replace
- Low respiratory resistance

EN 14387, EN143

Type	Class	Pk	Cat. No.
For half masks Valuair, Premier, MX/PF			
Canister, T-series	ABEK1	10	**111-3528**
Canister, T-series	A2P3	6	**111-3529**
Canister, T-series	ABEK1P3	6	**111-3530**
Canister, T-series	A1	10	**111-3540**

Half masks, series 6000 and 7000
3M

Reusable

Lightweight and comfortable to wear. Incorporating a soft, hypoallergenic facepiece material and central exhalation valve.

- Uses 6000/2000 series bayonet filters
- Low maintenance respirator can be disassembled, cleaned and reused many times
- No replacement parts necessary except filters and cartridges

EN 140

Ordering information: Supplied without filters, which are sold separately (except 111-0465, 111-0466).

Type	Size	Pk	Cat. No.
6100, elastomer	S	1	**111-0061**
6200, elastomer	M	1	**111-0062**
6300, elastomer	L	1	**111-0063**
7501, silicone	S	1	**111-0065**
7502, silicone	M	1	**111-0066**
7503, silicone	L	1	**111-0067**
6200 mask with a set of A12PR filters	M	1 SET	**111-0465**
6200 mask with a set of A2P3R filters	M	1 SET	**111-0466**

Full face masks, 6000 series
3M

Reusable

Lightweight full face masks for maximum comfort. Incorporating a soft, hypoallergenic material and central exhalation valve.

- Uses 6000/2000 series bayonet filters
- A large lens, coated for scratch resistance, provides excellent visibility with a wide field of vision
- Cool Flow® exhalation valve is designed to make breathing easier and to help reduce heat and moisture build-up in the facepiece
- Low maintenance respirator: Can be disassembled, cleaned and reused many times
- No replacement parts necessary except filters and cartridges

EN 136

Weight: 400 g

Ordering information: Supplied without filters, which are sold separately.

Type	Size	Pk	Cat. No.
6700S	S	1	**113-0244**
6800S	M	1	**111-0206**
6900S	L	1	**111-0207**

Full face masks, 7907S
3M

Reusable

Lightweight full face masks for maximum comfort. The face piece is manufactured from a soft hypo-allergenic material and incorporates a central exhalation valve. Speech diaphragm for improved communications.

- Uses 6000/2000 series bayonet filters
- Large lens, with a scratch resistant coating gives a wide field of vision and excellent visibility
- Dual filter design reduces breathing resistance and improves weight distribution for greater comfort
- Double face sealing gasket ensures a better fit
- Six strap harness assembly for easy adjustment and reliable fit

EN 136

Ordering information: Supplied without filters, which are sold separately.

Type	Size	Pk	Cat. No.
7907S	U*	1	**111-0094**

Description	Pk	Cat. No.
Accessories		
7925 Spectacle kit for 7000 series full face masks	1	**111-1486**

*One size fits all

Particulate filters 5000 series for masks 6000 and 7000 series
3M

Type	Class	Pk	Cat. No.
501 Filter retainer		2	**111-0064**
5911 Pre-filter	P1	30	**111-0242**
5925 Pre-filter	P2	20	**111-0057**
5935 Pre-filter	P3	20	**111-0060**

Filters for masks, 6000/7000/7500 series
3M

These lightweight filters are suitable for use against a range of gases and vapours. They are highly versatile and can be used on all 6000 and 7000/7500 series masks.

- Low respiratory resistance
- Well balanced when attached to a mask
- Trapezoidal shape allows an excellent field of vision
- Bayonet attachment ensures secure and exact fitting

EN 141

Type	Class	Pk	Cat. No.
6035	P3	20	**111-0244**
6051	A1	8	**111-0051**
6054	K1	8	**111-0052**
6055	A2	8	**111-0053**
6057	ABE1	8	**111-0054**
6059	ABEK1	8	**111-0058**
6075	A1	8	**111-8930**
6096	HgP3	4	**111-8931**
6098	AXP3	4	**111-8932**
6099	ABEK2P3	4	**111-0059**

Particulate disc filters 2000 series for masks, 6000/7000/7500 series
3M

These mask filters are light, comfortable and provide reliable protection from particulates. When using with 3M™ 6000 series masks, a 3M™ 502 adapter is required.

- Low breathing resistance
- Allow a very wide field of vision
- Bayonet fitting system ensures precise and secure locking

EN 143

Type	Class	Pk	Cat. No.
2125 for fine dust, oil and water based mist	P2	20	**111-0069**
2128 for oil & water based mist, fine dust, acid gases, organic vapours and ozone	P2	20	**111-0070**
2135 for fine dust, oil and water based mist	P3	20	**111-0055**
2138 for oil & water based mist, organic vapours, ozone, particulates	P3	20	**111-0056**
502 Filter adapter		8	**111-0205**

Half masks against gas, vapour and dust, 7000 series
Moldex

Reusable

Mask body is made from soft, durable material.

- Adjustable head cradle
- Easy maintenance and cleaning without tools
- With EasyLock® filter system - easy handling
- No additional adapters or parts necessary
- Drop down option - mask can be worn around the neck during breaks

EN 140:1998

Type	Size	Pk	Cat. No.
Mask body, TPE	S	1	**111-0712**
Mask body, TPE	M	1	**111-0711**
Mask body, TPE	L	1	**111-0710**
Respiratory box, mask body, TPE includes 2x A2P3 R filters	M	1 KIT	**111-1165**
Respiratory box, mask body, TPE includes 2x A1B1E1K1P3 R filters	M	1 KIT	**111-1168**

Description	Class	Pk	Cat. No.
Filters for masks, 7000 and 9000 series, EasyLock®			
9010, particle filter	P1R	20	**111-1180**
9020, particle filter	P2 R	20	**111-0703**
9022, particle filter + ozone	P2 R	12	**111-1181**
9030, particle filter	P3 R	12	**111-0702**
9032, particle filter + ozone	P3 R	12	**111-1182**
9100, gas filter	A1	10	**111-0701**
9120, pre-assembled filter	A1P2R	8	**111-1183**

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Description	Class	Pk	Cat. No.
Filters for masks, 7000 and 9000 series, EasyLock®			
9200, gas filter	A2	8	**111-1184**
9230, pre-assembled filter	A2P3R	6	**111-1185**
9300, gas filter	A1B1E	10	**111-1186**
9400, gas filter	A1B1E1K1	10	**111-0700**
9430, pre-assembled filter	ABEK1P3 R	6	**111-1187**
9500, gas filter	A2B2E1	8	**111-1189**
9600, gas filter	AX	8	**111-0699**
9730, pre-assembled filters	A1B1E1K1 HG P3 R D	6	**111-1190**
Accessories			
Diaphragm kit (4 exhalation and 16 inhalation valves)		1	**111-1191**
Head harness		5	**111-1176**

Half masks against gas, vapour and dust, 8000 series
Moldex

Reusable

These versatile respirators can be used for gas/vapour protection, gas/vapour plus particulate protection, or only particulate protection dependent upon which combination of adapters and cartridges are used. The mask body is made from soft, durable TPE material.

- Easy maintenance and cleaning without tools
- Radial connector: New inhalation valve with every cartridge
- Improved field of vision, lightweight and easy to fit

EN 140:1998

Size	Pk	Cat. No.
S	1	**111-1177**
M	1	**111-1178**
L	1	**111-1179**

Type	Description	Pk	Cat. No.
Accessories			
P1 R D	Particulate filter, against fine dusts, fumes, water and oil based mists/aerosols	12	**111-1528**
P2 R D	Particulate filter, against fine toxic dusts, fumes, water and oil based mists/aerosols	8	**111-1529**
P3 R D	Particulate filter, against fine toxic dusts, fumes, water and oil based mists/aerosols	8	**111-1530**
A1B1E1	Gas filter, against organic and inorganic gases and vapours and acid gases	10	**111-1533**
A1B1E1K1	Gas filter, against organic and inorganic gases and vapours, acid gases, ammonia and amine derivatives	10	**111-1534**
-	Particulate filter holder, adapter which connects particulate filter onto gas cartridge	10	**111-1531**
-	Particulate filter cartridge, adapter which connects particulate filter directly onto mask body	10	**111-1532**

Full face masks against gas, vapour and dust; 9000 series
Moldex

Reusable

Extremely lightweight full face mask (only 360 g) made from soft, TPE material.

- Frameless panoramic lens
- Easy access and easy to remove
- Easy maintenance and cleaning, no tools required
- With EasyLock® filter system (no additional adapters or parts necessary) or with EN 148-1 connectors

EN 136:1998, CL2

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Type	Size	Pk	Cat. No.
Mask body, TPE, with EasyLock® connectors	S	1	**111-0709**
Mask body, TPE, with EasyLock® connectors	M	1	**111-0708**
Mask body, TPE, with EasyLock® connectors	L	1	**111-0707**
Mask body, TPE, with EN 148-1 connectors	S	1	**111-0706**
Mask body, TPE, with EN 148-1 connectors	M	1	**111-0705**
Mask body, TPE, with EN 148-1 connectors	L	1	**111-0704**
Mask body, TPE, incl. 2× A1B1E1K1P3 R filters mounted to mask	M	1 KIT	**111-1188**

Description	Class	Pk	Cat. No.
Filters for masks, 7000 and 9000 series, EasyLock®			
9010, particle filter	P1R	20	**111-1180**
9020, particle filter	P2 R	20	**111-0703**
9022, particle filter + ozone	P2 R	12	**111-1181**
9030, particle filter	P3 R	12	**111-0702**
9032, particle filter + ozone	P3 R	12	**111-1182**
9100, gas filter	A1	10	**111-0701**
9120, pre-assembled filter	A1P2R	8	**111-1183**
9200, gas filter	A2	8	**111-1184**
9230, pre-assembled filter	A2P3R	6	**111-1185**
9300, gas filter	A1B1E	10	**111-1186**
9400, gas filter	A1B1E1K1	10	**111-0700**
9430, pre-assembled filter	ABEK1P3 R	6	**111-1187**
9500, gas filter	A2B2E1	8	**111-1189**
9600, gas filter	AX	8	**111-0699**
9730, pre-assembled filters	A1B1E1K1 HG P3 R D	6	**111-1190**
Accessories			
Diaphragm kit (4 exhalation and 16 inhalation valves)		1	**111-1191**
Gaskets for EasyLock® connectors		20	**111-1192**
Gaskets for EN 148-1 connectors		10	**111-1193**
Head harness		5	**111-1194**
Faceshield protectors		60	**111-1195**
Storage bag		1	**111-1196**
Spectacle kit		1	**111-1197**

Powered air turbo system, Jupiter™
3M

Low profile, modular, powered air purifying respirator for use with quick release (QRS) headtops. Wide choice of filters for gases, vapours and particulates, with a filter cover (easy to clean) to reduce dust and prevent spark damage.

- Comfortable and flexible: Freedom of movement especially in smaller spaces
- Easy to use and maintain
- The ergonomic comfort belt remains comfortable even when wearing for a longer period of time
- The electronic alarm gives a warning (audible and visual) of low airflow and/or low battery

The standard Jupiter™ Powered Air Base Unit includes decontamination belt, air flow indicator and calibration tube.

Ordering information: Versaflo™ S-Series headtops sold separately.

Description	Pk	Cat. No.
Jupiter™ Powered Air Base Unit	1	**111-0240**

Description	Pk	Cat. No.
Accessories		
Battery 4 hours, explosion-proof	1	**111-0241**
Battery charger for 10 batteries	1	**111-1059**
Accessories for M-Series, Versaflo™		
BT- 20S, lightweight breathing tube, connects headtops to air sources, 735 mm	1	**111-0834**
BT- 20L, lightweight breathing tube, connects headtops to air sources, 965 mm	1	**111-0833**
BT-30, length adjusting breathing tube, connects headtops to air sources, 515 – 1165 mm	1	**111-1061**
BT-40 breathing tube (durable, heat-resistant neoprene rubber for rugged applications), connects headtops to air sources, 915 mm	1	**111-1526**
Filters		
Particle filter P3	12 PAIR	**111-0462**
Combination filter AP, organic vapours and particulates	12	**111-0377**
Combination filter A2BEK1P	6	**111-0460**
Combination filter ABEP	2	**111-0380**
Pre-filter	120	**111-0381**

Integrated suspension headcovers, Versaflo™ S-Series
3M

S-533

S-655

S-657

The 3M™ S-series head covers offer head and face proection as well as providing eye and face protection from liquid splash and low energy impact (grade F). They are suitable for applications that require frequent replacement of the entire headgear assembly, such as pharmaceutical manufacturing and laboratory work, or in situations where there is less soiling of the outer fabric. All headcovers can be used in conjunction with 3M Powered and Supplied Air systems (e.g. Jupiter™ and Dustmaster™), thus offering respiratory protection.

- Improved shape and visibility
- Excellent airflow
- Comfortable to wear for long periods thanks to loose-fitting design
- Nominal protection factor: 500

S-133: Semi-disposable headcover for general purpose applications.

S-333G: Grey headcover with increased chemical and scratch resistance, it is therefore suitable for applications in the chemical industry. The material is soft, quiet, durable and low-linting.

S-433: Headcover with hood made of a general-purpose, cost effective material. The headcover features increased chemical and scratch resistance.

S-533: Headcover with hood made of soft low-linting fabric that readily drapes over the user and provides additional neck and shoulder coverage. The headcover features increased chemical and scratch resistance.

S-655: Headcover with hood for general purpose applications. The knitted inner collar is shorter and thinner than previous models.

S-657: Headcover with hood that features a double-shroud design for its respiratory seal.

S-757: Headcover with hood which features a fabric that is specifically intended to help capture paint overspray.

S-855: Headcover with sealed seam hood for liquid chemical splash environments.

EN 166; meets highest respiratory class 12941 TH3 when used with respiratory systems

Model	Headcover fabric	Visor material
S-133	White polypropylene coated non woven polypropylene	Clear PETG
S-333G	Grey polyurethane coated knitted polyamide	Coated polycarbonate
S-433	Polypropylene coated non woven polypropylene	Clear PETG
S-533	White polyurethane coated knitted polyamide	Coated polycarbonate
S-655	White polypropylene coated non woven polypropylene	Clear PETG
S-657	White polypropylene coated non woven polypropylene	Clear PETG
S-757	White polypropylene coated non woven polypropylene	Clear PETG
S-855	Light grey Zytron® 200	Coated polycarbonate

Colour	Size	Pk	Cat. No.
S-133 headcover			
White	S	1	**111-1109**
White	L	1	**111-1108**
S-333G headcover			
Grey	S	1	**111-1111**
Grey	L	1	**111-1110**
S-433 headcover with hood			
White	S	1	**111-0851**
White	L	1	**111-0850**
S-533 headcover with hood			
White	S/M	1	**111-1113**
White	M/L	1	**111-1112**
S-655 premium headcover with hood			
White	U*	1	**111-0852**
S-657 premium headcover with hood			
White	U*	1	**111-1118**
S-757 painters headcover with hood			
White	U*	1	**111-1119**
S-855 premium headcover with hood			
White	U*	1	**111-1121**

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Description	Pk	Cat. No.
Replacement hoods for integrated suspension headcovers, Versaflo™ S-Series		
S-605 Replacement hood with inner collar for use with S-655 hood assembly	10	**111-1114**
S-607 Replacement hood with inner shroud for use with hood assembly S-657	10	**111-1115**
S-805 Replacement hood with sealed seams and inner collar for use with S-855	5	**111-1120**

*One size fits all.

CE marking of protective gloves

Protective gloves are personal protective equipment or PPE.
PPE products are certified according to the European Directive 89/686/EC.
This directive determines the fundamental health and safety requirements with which products have to comply, and the procedures that have to be completed before placing a PPE product on the internal market. The visible indication of conformity is affixed with the CE mark.

3 categories

Category I: PPE protection against minor risks
Category II: PPE protection against moderate risks
Category III: PPE protection against mortal injuries or irreversible harm

European standards

EN 420: General requirements for protective gloves
EN 374 (parts 1 to 3): Protective gloves against chemicals and microorganisms

AQL (penetration, air and water leak test):

Performance level: Level 3
Acceptable quality level unit: <0,65
Inspection level: G1

Performance level: Level 2
Acceptable quality level unit: <1,5
Inspection level: G1

Performance level: Level 1
Acceptable quality level unit: <4,0
Inspection level: S4

ABC

EN 374: Chemical resistant glove pictogram (3-digit code).
The code refers to the code letters of the chemicals (from a list of 12 standard defined chemicals), for which a breakthrough time of at least 30 minutes has been obtained.

Code letter	Chemical	CAS number	Class
A	Methanol	67-56-1	Primary alcohol
B	Acetone	67-64-1	Ketone
C	Acetonitrile	75-05-8	Nitrile compound
D	Dichloromethane	75-09-2	Chlorinated paraffin
E	Carbone disulphide	75-15-0	Sulphur containing organic compound
F	Toluene	108-88-3	Aromatic hydrocarbon
G	Diethylamine	109-89-7	Amine
H	Tetrahydrofurane	109-99-9	Heterocyclic and ether compound
I	Ethyl acetate	141-78-6	Ester
J	n-heptane	142-85-5	Saturated hydrocarbon
K	Sodium hydroxide 40%	1310-73-2	Inorganic base
L	Sulphuric acid 96%	7664-93-9	Inorganic mineral acid

The **'low chemical resistant'** or 'waterproof' glove pictogram is to be used for those gloves that do not achieve a breakthrough time of at least 30 minutes against at least three chemicals from the defined list, but which comply with the penetration test, and have an AQL of 4 or lower.

The **'microorganism'** pictogram is used when the glove conforms to at least a performance level 2 for the penetration test.

EN 388: Protection against mechanical risks (4-digit code)

a. Abrasion resistance (performance level 0 - 4)
b. Blade cut resistance (performance level 0 - 4)
c. Tear resistance (performance level 0 - 4)
d. Puncture resistance (performance level 0 - 4)

EN 407: Protection against thermal risks (6-digit code) *

a. Burning behaviour (performance level 0 - 4)
b. Contact heat (performance level 0 - 4)
c. Convective heat (performance level 0 - 4)
d. Radiant heat (performance level 0 - 4)
e. Small splashes of molten metal (performance level 0 - 4)
f. Large quantities of molten metal (performance level 0 - 4)

(*) Gloves must achieve at least performance level 1 for abrasion and tear.

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EN 511: Protection against cold (3-digit code)

a. Convective cold (performance level 0 - 4)
b. Contact cold (performance level 0 - 4)
c. Water impermeability (performance level 0 or 1)

EN ISO 11611: Protection from electric arc welding (supersedes EN 470-1:1995).
Protects the wearer against small splashes of molten material, short contact time with flame, radiant heat from ARC. Minimises the possibility of electrical shock by short accidental contact with live electrical conductors up to 100 V DC.

Class 1 - Lower level (less hazardous welding situations)
Class 2 - Higher level (more hazardous welding situations)

Pictogram for welding gloves which shall provide protection for metal welding, cutting applications and related activities.
Protection from manual welding metal (9 requirements).
Different requirements for Type A and Type B welding.

Requirements (EN Levels)	Type A	Type B (high dexterity, TIG welding)
Abrasion	2	1
Cut	1	1
Tear	2	1
Puncture	2	1
Burning behaviour	3	2
Contact heat	1	1
Convective heat	2	-
Small splashes	3	2
Dexterity	1	4

Protection from ionising radiation and radioactive contamination

Definitions and requirements:
The nature of protection is shown by a pictogram relating to the specific protective qualities.
To protect from radioactive contamination, the glove has to be liquid proof and needs to pass the penetration test defined in EN 374.

For gloves used in containment enclosures, the glove shall offer high resistance to permeability of water vapour.
To protect from ionising radiation, the glove has to contain a certain amount of lead, quoted as lead equivalence. This Lead Equivalence must be marked on each glove.
Materials exposed to ionising radiation may be modelled by their behaviour to ozone cracking. This test is optional and can be used as an aid to selecting gloves which require resistance to ionising radiation.

Food approval for gloves

Gloves for food handling should be manufactured with authorised substances listed in the directive 85/572 and should also be tested for migration in order to evaluate the possible transfer of plastic materials from component to the foodstuffs. If there are restrictions on certain food groups, they should be mentioned.

EN 1149: Electrostatic properties

This standard specifies the requirements and test methods for materials used in the manufacturing of electrostatic dissipative protective clothing (gloves) to avoid electrostatic discharges.
As per EN 420 standard, no anti-static pictogram shall be used.

Gloves, LATEX

Latex, non sterile, powdered and powder-free, textured fingertips

Single-use, ambidextrous gloves made from natural latex. Suitable for food handling, laboratory and industrial applications with complex risks and for medical applications (powder-free version only).

- Free from phthalates and softeners
- Textured fingertips for excellent grip
- Rolled cuffs minimise the risk of tearing
- Suitable for food handling

Length: 240 mm

Thickness: 0,12 mm (palm)

Colour: Natural

Powdered: EN 374, Cat. III; AQL 1.5
Powder-free: EN 455, EN 374, Cat. III; AQL 1.5

Type	Size	Pk	Cat. No.
Powdered	S	100	**112-1565**
Powdered	M	100	**112-1566**
Powdered	L	100	**112-1567**
Powdered	XL	90	**112-1568**
Powder-free	S	100	**112-2750**
Powder-free	M	100	**112-2751**
Powder-free	L	100	**112-2752**
Powder-free	XL	90	**112-2753**

Gloves, Conform®+
Ansell

Latex, non sterile, powdered and powder-free, smooth or textured finish

These ambidextrous gloves are resistant to splashes of acids, bases, alcohols and dilute aqueous solutions of most chemicals.

- Light and stretchy - flexible and comfortable to wear
- With superior finger flexibility and grip
- Powdered gloves have a smooth surface, powder-free gloves have a textured finish

Length: 240 mm

Thickness: 0,12 mm

Colour: Natural

EN 374, Cat. III; AQL 1,5

Type	Size	Pk	Cat. No.
Powdered	5 - 6,5	100	**112-0973**
Powdered	7 - 8,5	100	**112-0974**
Powdered	9 - 10,5	100	**112-0975**
Powder-free	5 - 6,5	100	**112-0976**
Powder-free	7 - 8,5	100	**112-0977**
Powder-free	9 - 10,5	100	**112-0978**

Gloves, proFood®
Ansell

Latex, non sterile, powder-free, textured finish

These ambidextrous gloves are powder-free, offer a high dexterity and a low level of residual protein. Ideal for use in dairy processing and in the food industry.

- Powder-free version
- Structured finish for excellent grip

Length: 240 mm

Thickness: 0,12 mm

Colour: Natural

EN 374, Cat. III; AQL 1.5

Size	Pk	Cat. No.
5 - 6,5	100	**112-3545**
7 - 8,5	100	**112-3546**
9 - 10,5	100	**112-3547**

Gloves, KIMTECH SCIENCE* PFE
Kimberly-Clark

PFE-latex, non sterile, powder-free, textured finish

Ambidextrous gloves with beaded cuffs for added strength and easy donning and doffing.

- Low dermatitis potential
- Excellent wet and dry grip
- Virus protection according to ISO 16604 procedure B:2004
- Latex protein rate <50 µg/g

Length: 240 - 250 mm

Thickness: 0,15 mm (palm), 0,16 mm (finger)

Colour: Natural

EN 455, EN 374; Cat. III; AQL 1.5

Size	Pk	Cat. No.
XS	100	**112-1765**
S	100	**112-1766**
M	100	**112-1767**
L	100	**112-1768**
XL	90	**112-1769**

Gloves, KIMTECH SCIENCE* PFE-XTRA*
Kimberly-Clark

Latex, non sterile, powder-free, textured finish

Ambidextrous gloves with beaded cuffs. The gloves are designed to withstand rigorous use under conditions where there is a risk of exposure to chemical splashes.

- Excellent grip in dry and wet conditions
- Beaded cuffs for easy donning
- Latex protein rate <50 µg/g
- Virus protection according to ISO 16604 procedure B:2004

Length: 285 mm

Thickness: 0,22 mm (palm), 0,26 mm (finger)

Colour: Natural

EN 455, EN 374; Cat. III; AQL 1.5

Size	Pk	Cat. No.
S	50	**112-1770**
M	50	**112-1771**
L	50	**112-1772**
XL	50	**112-1773**

Gloves, KIMTECH SCIENCE* SATIN PLUS*
Kimberly-Clark

Latex, non sterile, powder-free, smooth finish

SATIN PLUS* gloves provide precision and control where tactile sensitivity is required. Suitable for use across a wide variety of non sterile applications.

- Beaded cuff for added strength and ease in donning
- Smooth finish provides excellent tactile sensitivity, making it an ideal solution for double donning
- Virus protection according to ISO 16604 procedure B:2004

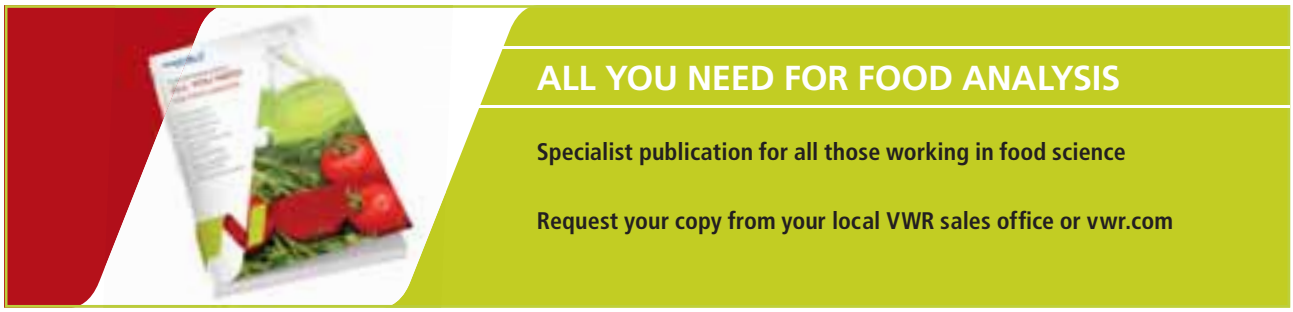
Length: 240 - 250 mm

Thickness: 0,15 mm (palm), 0,16 mm (finger)

Colour: Natural

EN 455, EN 374, Cat. III; AQL 1.5

Size	Pk	Cat. No.
XS	100	**112-1774**
S	100	**112-1775**
M	100	**112-1776**
L	100	**112-1777**
XL	90	**112-1778**



Gloves, Semperclean MC
Semperit

Latex, non sterile, powder-free, micro-roughened finish

These hand specific disposable gloves with beaded cuffs feature a special inner coating. Ideal for use in laboratories, electronic and pharmaceutical industries.

- Extremely comfortable to wear and particularly easy to put on due to the special inner coating
- Anatomical shape reduces hand fatigue
- Good grip due to special surface treatment
- Skin friendly due to cleaning and washing procedure

Length: 270 - 285 mm

Thickness: 0,21 mm ± 0,05 mm

Colour: Natural

EN 455, EN374; Cat. III; AQL 1.5

Size	Pk	Cat. No.
6	50 PAIR	**112-3129**
6,5	50 PAIR	**112-5700**
7	50 PAIR	**112-3130**
7,5	50 PAIR	**112-5701**
8	50 PAIR	**112-3131**
8,5	50 PAIR	**112-5702**
9	50 PAIR	**112-3132**

Surgical gloves, Profile 3000™
Nitritex

Latex, sterile, powder-free, textured finish

These hand-specific surgical gloves feature beaded cuffs and a textured surface.

- Excellent grip
- Anatomically shaped
- Protein level less than 50 µg/g

Length: 300 mm

Colour: White

EN 455, AQL 1.5

Packaging: One cuffed pair per inner wrapper; one inner wrapper per sealed Tyvek™ pouch; 50 pairs per inner dispenser box; 4 inner dispenser boxes per outer carton (200 pairs).

Size	Pk	Cat. No.
6	200 PAIR	**112-3016**
6,5	200 PAIR	**112-3015**
7	200 PAIR	**112-3014**
7,5	200 PAIR	**112-3013**
8	200 PAIR	**112-3012**
8,5	200 PAIR	**112-3011**
9	200 PAIR	**112-3009**
10	200 PAIR	**112-3008**

Surgical gloves, Biogel® Surgeons

Latex, sterile, powder-free, smooth or textured surface

These natural rubber latex gloves provide an excellent barrier in general surgical procedures. The unique Biogel® hydrogel polymer coating on the inner surface makes them easy to don, even with damp hands. The coating also soothes the skin to help prevent moisture loss.

- Beaded cuff for added security
- Non-pyrogenic, potentially reducing the risk of post-operative complications
- Low potential for inducing allergic contact dermatitis or Type IV allergies
- Every glove is air inflation tested and visually inspected for quality and safety

Colour: Natural

Length: 280 - 302 mm

Thickness: 0,26 mm (palm - single wall), 0,27 mm (finger - single wall)

EN 455 (Parts 1, 2, 3 & 4); AQL 0,65

Packaging: One pair per pack, in a high quality inner wrap, packed into a film pack (constructed of a laminate of polyester and low-density polyethylene). 50 pairs per box for sizes 5,5 – 8,5; 40 pairs for size 9,0.

Type	Size	Pk	Cat. No.
Smooth finish	5,5	50 PAIR	**112-3321**
Smooth finish	6	50 PAIR	**112-3322**
Smooth finish	6,5	50 PAIR	**112-3323**
Smooth finish	7	50 PAIR	**112-3324**
Smooth finish	7,5	50 PAIR	**112-3325**
Smooth finish	8	50 PAIR	**112-3326**
Smooth finish	8,5	50 PAIR	**112-3327**
Smooth finish	9	40 PAIR	**112-3328**
Textured finish	5,5	50 PAIR	**112-3329**
Textured finish	6	50 PAIR	**112-3330**
Textured finish	6,5	50 PAIR	**112-3331**
Textured finish	7	50 PAIR	**112-3332**
Textured finish	7,5	50 PAIR	**112-3333**
Textured finish	8	50 PAIR	**112-3334**
Textured finish	8,5	50 PAIR	**112-3335**
Textured finish	9	40 PAIR	**112-3336**

Surgical gloves, Sempermed® Supreme
Semperit

Natural latex, sterile, powder-free, micro-textured finish

White, pH-neutral surgical gloves with rolled cuff.

- The synthetic inner coating provides good skin tolerability and ease of donning without powder even when hands are wet with alcohol
- High level of comfort and no hand fatigue caused by close-fitting surgical gloves
- Microrough surface provides effective grip and excellent tactile sensitivity

Length: 270 - 285 mm

Thickness: 0,19 - 0,24 mm (in hand area)

Colour: White

EN 455/3, EN 1041, EN 980; AQL 1.0

Packaging: Left and right glove with cuff turned up in a fibre-free inner package, sealed in a medical peel pack, ozone-tight.

Size	Pk	Cat. No.
6,5	50 PAIR	**112-0108**
7,5	50 PAIR	**112-0109**
8,5	50 PAIR	**112-0110**

Clean-process gloves, AccuTech®
Ansell

Latex, sterile or non sterile, powder-free, bisque fingertips

Hand-specific gloves with straight cuffs for all applications requiring a high level of dexterity and grip. Ideal for pharmaceutical, medical device manufacturing and biotech.

- Hand-specific, ergonomically designed for improved dexterity, comfort and long wear
- Straight cuff for better fit over garment
- Protein level below 50 µg/gram

Length: 300 mm

Thickness: 0,18 mm (palm) 0,2 mm (fingertips), 0,25 mm (cuffs)

Colour: Natural

EN 374, Cat. III, ASTM D 5712-95; AQL 1,0

Packaging: Packaged in cleanroom-compatible packaging and a lined shipping carton.

Sterile: One pair per poly wallet, sealed in poly envelope; 10 pairs per master polybag; 5 master polybags per case liner; 4 case liners per carton.

Non sterile: One pair per poly envelope; 10 pairs per master polybag; 5 master polybags per case liner; 4 case liners per carton.

Type	Size	Pk	Cat. No.
Sterile	6	200 PAIR	**112-0979**
Sterile	6,5	200 PAIR	**112-3668**
Sterile	7	200 PAIR	**112-0981**
Sterile	7,5	200 PAIR	**112-0982**
Sterile	8	200 PAIR	**112-0983**
Sterile	8,5	200 PAIR	**112-0984**
Sterile	9	200 PAIR	**112-0985**
Non sterile	6	200 PAIR	**112-0986**
Non sterile	6,5	200 PAIR	**112-0987**
Non sterile	7	200 PAIR	**112-0988**
Non sterile	7,5	200 PAIR	**112-0989**
Non sterile	8	200 PAIR	**112-0990**
Non sterile	8,5	200 PAIR	**112-3673**
Non sterile	9	200 PAIR	**112-0992**

Cleanroom gloves, AccuTech®
Ansell

Latex, sterile, powder-free, bisque finish

Suitable for use in Class 100, ISO 5 or M3.5 cleanrooms.

These silicone coated latex gloves meet requirements within the pharmaceutical, biotechnology and medical device industries.

- Inner silicone coating facilitates easy donning and double-gloving
- Thinner fingertips and bisque finish provide greater sensitivity, increased handling precision and dexterity
- Low allergenic content minimises the risk of latex-associated allergies for the wearer

Length: 285 mm

Thickness: 0,23 mm (cuff); 0,18 mm (palm), 0,20 mm (fingertips)

Colour: Natural

EN 374, Cat. III; AQL 1,0

Packaging: One pair per poly wallet, sealed in a poly envelope; 10 pairs per sealed polybag; 5 sealed polybags per master polybag; 4 master polybags per lined carton; 200 pairs per carton.

Size	Pk	Cat. No.
6	200 PAIR	**112-0314**
6,5	200 PAIR	**112-0315**
7	200 PAIR	**112-0316**
7,5	200 PAIR	**112-0317**
8	200 PAIR	**112-0318**
8,5	200 PAIR	**112-0319**
9	200 PAIR	**112-0462**

Cleanroom gloves, KIMTECH PURE*, sterile G5 Latex
Kimberly-Clark

Latex, sterile, powder-free, textured finish

Suitable for use in Class 100, ISO 5 or M3.5 cleanrooms.

Hand-specific gloves made of specially formulated natural rubber latex for superior strength and durability. Non-pyrogenic, non-hemolytic. With tapered and beaded cuffs for easy donning and removal.

- Oxyglazed finish improves donning and enhances liquid permeation resistance
- Textured for good wet/dry grip without compromising tactility
- Sterilised by gamma irradiation

Length: 300 mm

Thickness: 0,20 mm (palm)

Colour: Natural

EN 374, Cat. III; AQL 1.5

Packaging: Double packed, 10 pairs in PE-bag, 20 PE-bags in pack.

Size	Pk	Cat. No.
6	200 PAIR	**112-2597**
6,5	200 PAIR	**112-2598**
7	200 PAIR	**112-2599**
7,5	200 PAIR	**112-2600**
8	200 PAIR	**112-2601**
8,5	200 PAIR	**112-2602**
9	200 PAIR	**112-2603**
10	200 PAIR	**112-2596**

Cleanroom gloves, KIMTECH PURE* G3
Kimberly-Clark

Latex, sterile, powder-free, textured finish

Suitable for use in Class 1, ISO 3, M1.5 environments.

Hand-specific gloves with beaded cuffs are specially washed to control particle levels.

- Oxyglazed surface reduces particle shedding, broadens chemical resistance
- Textured, non-slip surface provides exceptional wet/dry grip without compromising tactile sensitivity
- Tapered, beaded cuff reduces roll down, makes donning easier, enhances cuff strength, and forms a better seal on garments
- Sterilised by gamma radiation

Length: 300 mm

Thickness: 0,20 mm (palm)

Colour: Natural

EN 374-1, EN 374-2, EN 420:2003; Cat. III 89/686/EC; AQL 1.5

Packaging: Each pair is double-packaged in a wallet within a pouch, 20 pouches per bag, 10 bags per case (200 pair).

Size	Pk	Cat. No.
6	200 PAIR	**112-4825**
6,5	200 PAIR	**112-4826**
7	200 PAIR	**112-0491**
7,5	200 PAIR	**112-4827**
8	200 PAIR	**112-4828**
8,5	200 PAIR	**112-4829**
9	200 PAIR	**112-4830**
10	200 PAIR	**112-2584**

Cleanroom gloves, KIMTECH PURE* G3 Latex
Kimberly-Clark

Latex, non sterile, powder-free, textured finish

Suitable for use in class 1, ISO 3, M1.5 cleanrooms.

Ambidextrous gloves with tapered, beaded cuffs for easy donning and better seal on garment.

- Washed repeatedly in ultrapure deionised water to ensure consistent control of particles and extractables
- Exceptional wet/dry grip without compromising tactile sensitivity

Length: 300 mm

Thickness: 0,20 mm (palm)

Colour: Natural

EN 374, Cat. III; AQL 1.5

Packaging: Double-bagged with polyethylene materials to ensure cleanliness.

Size	Pk	Cat. No.
S	1.000	**112-2581**
M	1.000	**112-2582**
L	1.000	**112-2583**
XL	1.000	**112-0533**

Cleanroom gloves, BioClean Legion™
Nitritex

Latex, non sterile, powder-free, textured finish

Suitable for use in Class 100, ISO 5 or M3.5 cleanrooms.

- Extended length for elbow protection
- Latex provides excellent flexibility and comfort
- Extended leaching in pure de-ionised water ensures extremely low levels of chlorides and extractable metals
- Protein level less than 50 µg/g
- Each size carries a unique barcode on the outer bag of 50 pairs (EAN-13) and the outer carton (ITF-14), which allows automatic data entry into stock control systems

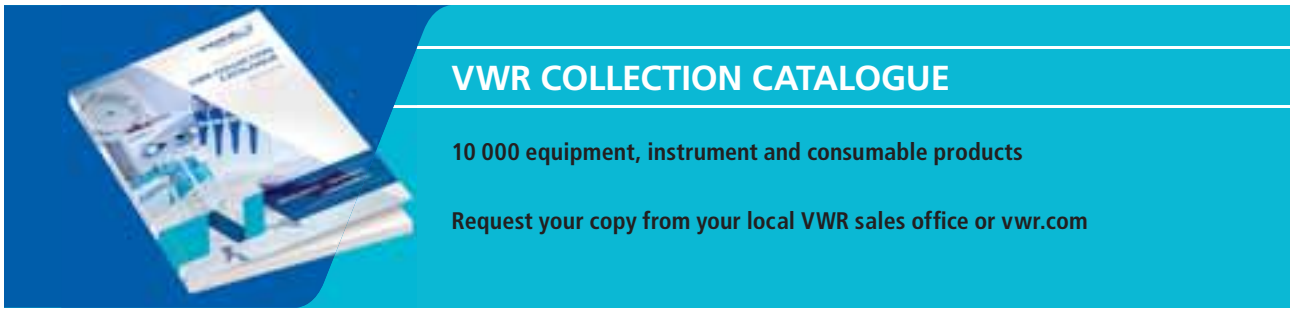
Length: 400 mm

Colour: Natural

EN 455, EN 374, Cat. III; AQL 1.5

Packaging: 100 pieces per sealed inner polybag; one inner polybag per sealed outer polybag; 10 outer polybags per carton (1000 pieces).

Size	Pk	Cat. No.
S	1.000	**112-3074**
M	1.000	**112-3075**
L	1.000	**112-3076**
XL	1.000	**112-3077**



Cleanroom gloves, BioClean Alpha™
Nitritex

Latex, sterile, powder-free, textured surface

Suitable for use in Class 10, ISO 4 or EU GMP Grade A cleanrooms.

These latex gloves with beaded cuffs are hand-specific and anatomically shaped.

- Protein level less than 50 µg/g
- Each size carries a unique barcode on the carton (ITF-14), which allows automatic data entry into stock control systems

Length: 300 mm

Thickness: 0,18 mm (cuff); 0,21 mm (palm); 0,23 mm (fingers)

Colour: Natural

EN 455, EN 374, Cat. III; AQL 1.5

Packaging: One cuffed pair per inner plastic wallet; one inner wallet per "Easy Tear" PE bag; 10 pairs per sealed outer PE bag; 20 outer bags per carton (200 pairs).

Size	Pk	Cat. No.
6	200 PAIR	**112-3055**
6,5	200 PAIR	**112-3056**
7	200 PAIR	**112-3057**
7,5	200 PAIR	**112-3058**
8	200 PAIR	**112-3059**
8,5	200 PAIR	**112-3060**
9	200 PAIR	**112-3061**

Cleanroom gloves, BioClean Legacy™
Nitritex

Latex, non sterile, powder-free, textured finish

Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.

These ambidextrous cleanroom gloves with beaded cuffs can be used in medical as well as in laboratory environments.

- Protein level less than 50 µg/g
- Textured finish for improved grip
- Latex provides exceptional flexibility and comfort
- Beaded cuff provides easier donning and stability on the arm
- Each size carries a unique barcode on the carton (ITF-14), which allows automatic data entry into stock control systems

Length: 300 mm

Colour: Natural

EN 455, EN 374, Cat. III; AQL 1.5

Packaging: 100 pieces per sealed inner PE bag; one sealed inner PE bag per sealed outer PE bag; 10 outer PE bags per carton liner; one carton liner per carton (1000 pieces).

Size	Pk	Cat. No.
XS	1.000	**112-3303**
S	1.000	**112-3304**
M	1.000	**112-3305**
L	1.000	**112-3306**
XL	1.000	**112-3307**
XXL	1.000	**112-3308**

Cleanroom gloves, BioClean Extra™
Nitritex

Latex, sterile, powder-free, textured finish

Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.

Cleanroom gloves with beaded cuffs.

- Protein level less than 50 µg/g
- Extended leaching in pure de-ionised water ensures extremely low levels of chlorides and extractable metals
- Each size carries a unique barcode on the carton (ITF-14), which allows automatic data entry into stock control systems

Length: 400 mm

Thickness: 0,10 mm (cuff); 0,13 mm (palm); 0,16 mm (fingers)

Colour: Natural

EN 455, EN 374, Cat. III; AQL 1.5

Packaging: One cuffed pair per inner plastic wallet; one inner wallet per "Easy Tear" PE bag; 10 pairs per sealed outer PE bag; 20 outer bags per carton (200 pairs).

Size	Pk	Cat. No.
S	200 PAIR	**112-3080**
M	200 PAIR	**112-3079**
L	200 PAIR	**112-3078**
XL	200 PAIR	**112-3081**

Finger cots
B. Braun

Latex, non sterile, powder-free, smooth finish

Suitable for protection of individual fingers during dexterous work.

- Ambidextrous
- Beaded rim
- Very flexible

Thickness: 0,10 mm

Colour: Natural

EN 455, AQL 1,5

Size	Pk	Cat. No.
M	100	**112-0048**
L	100	**112-0047**
XL	100	**112-0046**

Gloves, NITRILE

Nitrile, non sterile, powder-free, textured finish

For laboratory use in pharmaceutical, industrial and medical applications, and in the food industry. These ambidextrous gloves provide extra protection, particularly for sensitive skin.

- Highly resistant to chemical solvents and fats
- Excellent grip, especially when holding wet objects
- Designed especially for latex allergy sufferers

Length: 240 mm

Thickness: 0,25 mm (double wall)

Colour: Blue

EN 374, Cat. III, AQL 1,5
Food contact approved

Size	Pk	Cat. No.
S	100	**112-2371**
M	100	**112-2372**
L	100	**112-2373**
XL	90	**112-3101**

Gloves, NITRILE LIGHT

Nitrile, non sterile, powder-free, textured fingertips

Light, ambidextrous and durable gloves that are ideal for food handling, catering and kitchen work, medical applications and other complex risk tasks. The thin nitrile gloves are free from phthalates, softeners and allergenic latex proteins.

- Low thickness and textured fingertips for excellent grip
- Particularly skin friendly for users with latex allergy
- Rolled cuffs minimise the risk of tearing
- Suitable for food handling

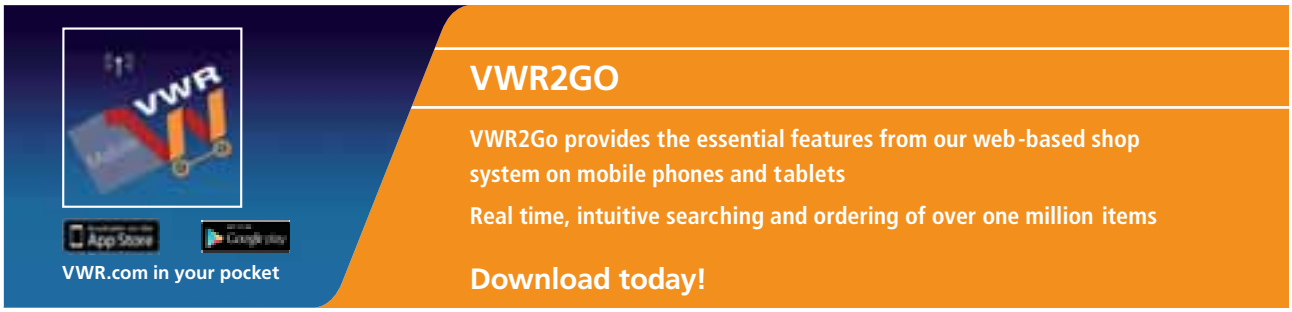
Length: 240 or 300 mm

Thickness: 0,18 mm (double wall)

Colour: Blue

EN 374, EN 455; Cat. III; AQL 1,5

Length (mm)	Size	Pk	Cat. No.
240	XS	100	**112-2765**
240	S	100	**112-2754**
240	M	100	**112-2755**
240	L	100	**112-2756**
240	XL	90	**112-2757**
300	XS	100	**112-2766**
300	S	100	**112-2767**
300	M	100	**112-2768**
300	L	100	**112-2769**
300	XL	90	**112-2770**



Gloves, AZUR

Nitrile, non sterile, powder-free, textured fingers

These ambidextrous gloves with beaded cuffs are ideal for laboratory and general use in industrial and medical applications, as well as in the food industry.

- Great tactility
- Textured fingers for excellent grip
- Latex-free material - eliminates Type 1 allergies

Length: 240 mm

Thickness: >0,07 mm (finger), >0,06 mm (palm)

Colour: Azure blue

EN 374, EN 455, Cat. III, AQL 1,5

Food contact approved according to regulation EC 1935/2004

Size	Pk	Cat. No.
S (6 - 7)	200	**112-1756**
M (7 - 8)	200	**112-1757**
L (8 - 9)	200	**112-1758**
XL (9 - 10)	200	**112-1759**

Food gloves, Nitrile Food

Nitrile, non sterile, powder-free, textured fingertips

The gloves are manufactured from 100% nitrile which contains no natural rubber latex. They are therefore excellent for use in environments where natural rubber is not desirable or for people who suffer from allergic reactions. The gloves are very light, but strong and durable, due to the excellent tensile and elongation properties, and especially suitable for food handling (Food contact approved according to European Directive EC 1935/2004).

- Ambidextrous
- Beaded cuffs
- Textured fingertips for better grip

Colour: Blue

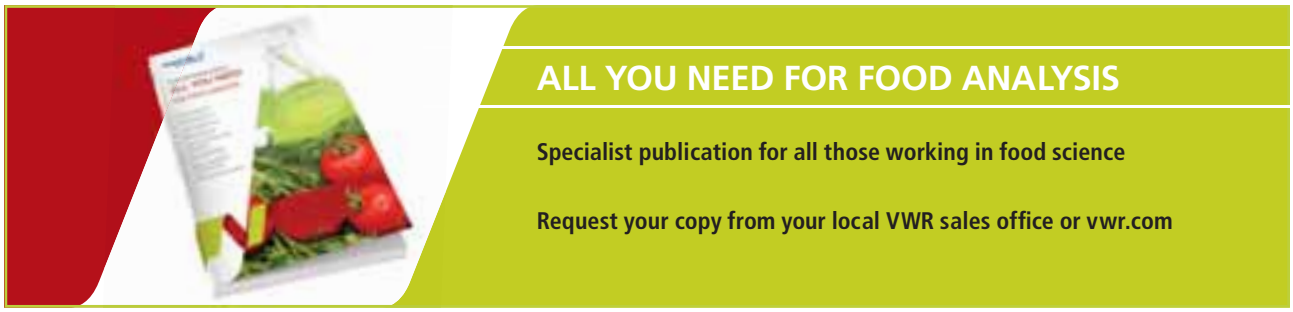
Length: 240 mm

Thickness: >0,05 mm (palm), >0,08 mm (finger)

Food contact approved, AQL 1,5

Packaging: 10×100 gloves/pack

Size	Pk	Cat. No.
XS	1.000	**112-1873**
S	1.000	**112-1874**
M	1.000	**112-1875**
L	1.000	**112-1876**
XL	1.000	**112-1877**



Gloves, TNT® Blue 92-665 and 92-670
Ansell

Nitrile, non sterile, powder-free, textured fingertips

Ambidextrous, disposable gloves with beaded cuffs. 100% nitrile with high puncture resistance. Free from waxes, silicone and platicisers. The gloves offer outstanding chemical and mechanical properties, they are therefore ideal for laboratory purposes, chemical industry applications, and for handling electronics and intricate parts.

- Offers valuable protection against chemical splashes
- No natural latex proteins, powder-free
- Textured finish on fingertips for improved grip
- Three times the puncture resistance of latex or PVC

Thickness: 0,10 mm

Colour: Light blue

EN 374, Cat. III; AQL 1.5
Food contact approved

Type	Length (mm)	Size	Pk	Cat. No.
92-670	240	S	100	**112-2381**
92-670	240	M	100	**112-2382**
92-670	240	L	100	**112-2383**
92-670	240	XL	100	**112-2384**
92-665	300	S	100	**112-2688**
92-665	300	M	100	**112-2689**
92-665	300	L	100	**112-2690**
92-665	300	XL	100	**112-2691**

Gloves, VersaTouch™ 92-465, 92-471 and 92-481
Ansell

Nitrile, non sterile, powder-free, textured fingertips

Made from an innovative nitrile compound which offers outstanding chemical and mechanical properties, comfort and dexterity. Suitable for contact with all fatty foods. Safe for both food and workers' hands. Latex-free.

- Outstanding resistance to animal fats compared with PVC or natural rubber
- Blue colour increases visibility during food processing
- Textured finish on fingertips for improved grip

Colour: Light or dark blue

Length: 240 or 300 mm

Thickness: 0,10 mm

EN 374, Cat. III; AQL 1.5
Food contact approved

Type	Colour	Length (mm)	Size	Pk	Cat. No.
92-465	Dark Blue	240	6,5 - 7	100	**112-1955**
92-465	Dark Blue	240	7,5 - 8	100	**112-1956**
92-465	Dark Blue	240	8,5 - 9	100	**112-1957**
92-465	Dark Blue	240	9,5 - 10	100	**112-1958**
92-471	Light Blue	240	6,5 - 7	100	**112-1967**
92-471	Light Blue	240	7,5 - 8	100	**112-1968**
92-471	Light Blue	240	8,5 - 9	100	**112-1969**
92-471	Light Blue	240	9,5 - 10	100	**112-1970**
92-481	Light Blue	300	6,5 - 7	100	**112-1959**
92-481	Light Blue	300	7,5 - 8	100	**112-1960**
92-481	Light Blue	300	8,5 - 9	100	**112-1965**
92-481	Light Blue	300	9,5 - 10	100	**112-1966**

Description	Pk	Cat. No.
Accessories		
Wall-mountable dispenser for VersaTouch™ gloves, POS 002, stainless steel	1	**112-2940**

Food processing gloves, VersaTouch™
Ansell

Nitrile, non sterile, powder-free, textured fingertips

These thin nitrile gloves are food contact approved and ideal for handling all fatty food. Typical applications include meal preparation, fruit, vegetable and dairy processing, food distribution and catering.

- Textured fingertips provide good comfort and tactility for sensitive, precise handling
- Beaded cuff prevents liquid from rolling onto the arm or wrist
- Latex-free: No risk of Type 1 allergies

Colour: White or blue

Length: 240 mm

Thickness: 0,075 mm

EN 374, Cat. III, AQL 1,5
Food contact approved

Type	Colour	Size	Pk	Cat. No.
100 gloves/dispenser				
92-200	Blue	6,5 - 7	100	**112-1989**
92-200	Blue	7,5 - 8	100	**112-1992**
92-200	Blue	8,5 - 9	100	**112-1993**
92-200	Blue	9,5 - 10	100	**112-1994**
92-205	White	6,5 - 7	100	**112-2736**
92-205	White	7,5 - 8	100	**112-2737**
92-205	White	8,5 - 9	100	**112-2738**
92-205	White	9,5 - 10	100	**112-2739**
100 gloves/polybag				
92-210	Blue	6,5 - 7	100	**112-2740**
92-210	Blue	7,5 - 8	100	**112-2741**
92-210	Blue	8,5 - 9	100	**112-2742**
92-210	Blue	9,5 - 10	100	**112-2743**
92-220	White	6,5 - 7	100	**112-2744**
92-220	White	7,5 - 8	100	**112-2745**
92-220	White	8,5 - 9	100	**112-2746**
92-220	White	9,5 - 10	100	**112-2747**

Gloves, Touch N Tuff® 92-600 and 92-605
Ansell

Nitrile, non sterile, powder-free, smooth finish or textured fingertips

These gloves with rolled cuffs are made of puncture resistant nitrile which offers valuable protection against accidental splashes of hazardous chemicals. Ideal for use in the chemical and electronics industry.

- 100% nitrile; no waxes, silicone or plasticisers; ideal for sensitive skin
- Three times the puncture resistance of latex or PVC
- Light, cool and durable
- Designed for maximum freedom of movement and minimum hand fatigue

Thickness: 0,12 mm

Colour: Green

EN 374, EN 1149-5 (tested for EN 1149-1 and 1149-3), Cat. III; AQL 1.5
Food contact approved

Type	Length (mm)	Size	Pk	Cat. No.
92-600	240	6,5 - 7	100	**112-0997**
92-600	240	7,5 - 8	100	**112-0998**
92-600	240	8,5 - 9	100	**112-0999**
92-600	240	9,5 - 10	100	**112-1008**
92-605	300	6,5 - 7	100	**112-1935**
92-605	300	7,5 - 8	100	**112-1936**
92-605	300	8,5 - 9	100	**112-1937**
92-605	300	9,5 - 10	100	**112-1938**

Gloves, KIMTECH SCIENCE* GREEN NITRILE*
Kimberly-Clark

Nitrile, non sterile, powder-free, textured fingertips

Ambidextrous gloves with beaded cuffs for higher risk applications. The gloves are static dissipative in use and food contact approved. Provide virus protection according to ISO 16604 procedure B:2004.

- Contains no natural rubber latex
- Excellent tactile sensitivity for handling delicate instruments
- Beaded cuffs for added strength and ease in donning
- 250 gloves per standard sized box – reduces waste, space and environmental impact
- 40% more tensile strength with a minimum thickness of only 0,06 mm

Length: 240 mm (Size XS - M) or 250 mm (Size L - XL)

Thickness: 0,06 mm (palm), 0,09 mm (finger)

Colour: Green

EN 374; EN 455, Cat. III; AQL 0,65
Food contact approved

Size	Pk	Cat. No.
XS	250	**112-1787**
S	250	**112-1788**
M	250	**112-1789**
L	250	**112-1790**
XL	225	**112-1791**

Gloves, KIMTECH SCIENCE*, BLUE NITRILE*
Kimberly-Clark

Nitrile, non sterile, powder-free, bisque finish

Ambidextrous gloves for a wide variety of non sterile applications. Provide virus protection according to ISO 16604 procedure B:2004.

- Contain no natural rubber latex reducing the potential for TYPE I glove-associated reactions
- Smooth glove with bisque finish for excellent tactile sensitivity
- Beaded cuff, for added strength and ease in donning
- Anti-static tested, meeting the requirements defined in EN 1149-5

Length: 240 mm (Size S/M) or 250 mm (Size L/XL)

Thickness: 0,12 mm (palm), 0,15 mm (finger)

Colour: Blue

EN 374, EN 455, EN 1149-5; Cat. III, AQL 1,5

Length (mm)	Size	Pk	Cat. No.
240	S	100	**112-4867**
240	M	100	**112-4868**
250	L	100	**112-4869**
250	XL	90	**112-4870**

Gloves, KIMTECH SCIENCE*, PURPLE NITRILE* and PURPLE NITRILE-XTRA*
Kimberly-Clark

Nitrile, non sterile, powder-free, textured fingertips

Ambidextrous gloves for critical & higher risk applications (Biohazard/Chemical hazard). Provide virus protection according to ISO 16604 procedure B:2004.

- Contain no natural rubber latex reducing the potential for TYPE I glove-associated reactions
- Textured fingertips enhance wet and dry grip, with enhanced tactile sensitivity
- Stronger than latex with better protection against a wide range of chemicals including cytotoxic drugs
- Anti-static tested, meeting the requirements defined in EN 1149-5
- Beaded cuffs for added strength and ease in donning

Thickness: 0,12 mm (palm), 0,15 mm (finger)

Colour: Purple

EN 374, EN 455, EN 1149-5, EN 421; Cat. III, AQL 0,65
Food contact approved

Type	Length (mm)	Size	Pk	Cat. No.
PURPLE NITRILE	240	XS	100	**112-4845**
PURPLE NITRILE	240	S	100	**112-4846**
PURPLE NITRILE	240	M	100	**112-4847**
PURPLE NITRILE	250	L	100	**112-4848**
PURPLE NITRILE	250	XL	90	**112-4849**
PURPLE NITRILE-XTRA	300	XS	50	**112-4862**
PURPLE NITRILE-XTRA	300	S	50	**112-4863**
PURPLE NITRILE-XTRA	300	M	50	**112-4864**
PURPLE NITRILE-XTRA	300	L	50	**112-4865**
PURPLE NITRILE-XTRA	300	XL	50	**112-4866**

Gloves, KIMTECH SCIENCE* STERLING*
Kimberly-Clark

Nitrile, non sterile, powder-free, textured fingertips

The new way of utilising synthetic nitrile polymer allows the production of a glove with a tip thickness of only 0,09 mm but with excellent tensile strength. This reduced glove weight can significantly minimise waste. The patented physical properties of the glove offer the fit and feel of latex while providing the chemical and mechanical protection of nitrile.

- Contain no natural rubber latex reducing the potential for TYPE I glove-associated reactions
- Textured fingertips enhance wet and dry grip, with enhanced tactile sensitivity
- Stronger than latex with better protection against a wide range of chemicals including cytotoxic drugs
- Beaded cuffs for added strength and ease in donning
- Reduced storage - up to 50% more gloves in a box than conventional boxed gloves
- Virus protection according to ISO 16604 procedure B:2004
- Anti-static tested, meeting the requirements defined in EN 1149-5

Length: 240 mm (Size XS - M) or 250 mm (Size L - XL)

Thickness: 0,08 mm (palm), 0,09 mm (finger)

Colour: Grey

EN 374; EN 455, EN 1149-5; Cat. III; AQL 0,65
Food contact approved

Size	Pk	Cat. No.
XS	150	**112-4831**
S	150	**112-4832**
M	150	**112-4833**
L	150	**112-4834**
XL	140	**112-4835**

Gloves, KIMTECH SCIENCE*, STERLING* NITRILE-XTRA*
Kimberly-Clark

Nitrile, non sterile, powder-free, textured fingertips

These gloves provide vital hand protection and comfort for safely working in laboratories and environments where safety is critical. With synthetic nitrile, it is possible to manufacture gloves that are just 0,1 mm thick at the ends while still providing excellent resistance to tearing. The physical properties of this glove give the same appearance and comfort as latex, but with the added chemical and mechanical protection of nitrile.

- Contain no natural rubber latex reducing the potential for TYPE I glove-associated reactions
- Textured fingertips enhance wet and dry grip, with enhanced tactile sensitivity
- Stronger than latex with better protection against a wide range of chemicals including cytotoxic drugs
- Anti-static tested, meeting the requirements defined in EN 1149-5
- Beaded cuffs for added strength and ease in donning
- Provide virus protection according to ISO 16604 procedure B:2004

Length: 300 mm

Thickness: 0,08 mm (palm), 0,10 mm (finger)

Colour: grey

EN 374; EN 455, EN 1149-5; Cat. III; AQL 0,65

Size	Pk	Cat. No.
XS	100	**112-1356**
S	100	**112-1357**
M	100	**112-1358**
L	100	**112-1359**
XL	90	**112-1368**

Gloves, NT14B PF
Marigold

Nitrile, non sterile, powder-free, textured finish

Ideal for laboratory work and short-term contact with mildly aggressive products.

- Rolled cuff for improved resistance to tear and easy donning and removal
- Flexible and comfortable, exceptional sensitivity and good resistance to penetration
- Low modulus formulation for low hand fatigue
- Textured surface for easy handling

Length: 350 mm

Thickness: 0,11 mm (palm)

Colour: Blue

EN 374, EN 421, Cat. III; AQL 1,5
Food contact approved

Size	Pk	Cat. No.
6,5	25 PAIR	**112-5051**
7,5	25 PAIR	**112-5052**
8,5	25 PAIR	**112-5053**
9	25 PAIR	**112-5054**

Gloves, N-Dex® Original, 7005PF
Best

Nitrile, non sterile, powder-free, smooth finish

For general laboratory use, as well as in the pharmacological, industrial, hospital and food production industries. Nitrile ambidextrous gloves are highly sensitive, provide greater puncture and chemical resistance than latex gloves and are ideal for sensitive skin.

- Resistant to chemical solvents, fats and punctures
- Nitrile rubber, no latex proteins
- Blue colouring for easy detection
- High tactile sensitivity for dexterity in use

Length: 240 mm

Thickness: 0,20 mm (double wall)

Colour: Blue

EN 374, Cat. III; AQL 1,5

Size	Pk	Cat. No.
S	100	**112-2205**
M	100	**112-2206**
L	100	**112-2207**
XL	100	**112-2208**

Gloves, N-Dex® Original, 7005
Best

Nitrile, non sterile, low powdered, smooth finish

Ambidextrous gloves with rolled cuffs. Ideal for applications in automotive, dental, EMS, healthcare, lab, and for pharmaceutical professionals.

- High dexterity; reduces hand fatigue
- Superior comfort and barrier protection against a variety of chemicals, greases, oils and blood-borne pathogens
- Lightly powdered
- Blue colouring for better identification

Length: 240 mm

Thickness: 0,20 mm (double wall)

Colour: Blue

EN 374, Cat. III; AQL 1,5

Size	Pk	Cat. No.
S	100	**112-2200**
M	100	**112-2201**
L	100	**112-2202**
XL	100	**112-2203**

Gloves, N-Dex® Plus, 8005
Best

Nitrile, non sterile, pre-powdered, smooth finish

These soft, disposable gloves are highly sensitive with greater puncture and chemical resistance than natural rubber latex or vinyl gloves of similar thickness.

- Conform to the wearer's hand, comfortable fit, minimising hand pressure and giving a cool, dry feel
- Ambidextrous, with beaded cuffs

Length: 240 mm

Thickness: 0,20 mm

Colour: Blue

EN 374 (JKL), EN 388 (2000); Cat. III; AQL 1,5

Size	Pk	Cat. No.
S	50	**112-2220**
M	50	**112-2221**
L	50	**112-2222**
XL	50	**112-2223**

Gloves, N-Dex® Free
Best

Nitrile, non sterile, powder-free, textured fingertips

Free from the accelerators common in all disposable nitrile gloves, which have been linked to workplace conditions like Type IV dermatitis.

Also free from natural rubber latex therefore preventing Type I allergic reactions linked to latex proteins. The accelerator-free formulation creates a luminous, high visibility green glove.

- Greater grip, comfort and dexterity
- Low modulus formulation provides a comfortable fit
- Ambidextrous

Length: 240 mm

Thickness: 0,10 mm

Colour: Green

EN 374-2; Cat. II; AQL 1.5

Size	Pk	Cat. No.
S (7)	100	**112-1319**
M (8)	100	**112-3249**
L (9)	100	**112-3248**
XL (10)	100	**112-3256**

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Gloves, Nitri-Dex® 707/707FL
Best

Nitrile, non sterile, powder-free, smooth finish

These lined or unlined nitrile gloves with rolled cuffs protect the hand from oils, hydrocarbons, grease and abrasion. They are suitable for manufacturing, laboratories, food processing, light duty maintenance, clean up tasks, paint applications, fuel handling and refineries.

- 707FL models feature an additional comfortable flock lining for continuous wear
- Impermeable for working in damp or greasy environments
- Tractor tread finish and "slip-on" treatment provide good grip
- Easy to put on and remove

Length: 305 mm

Thickness: 0,23 mm

Colour: Blue

EN 374, EN 388 (1001), Cat. III; AQL 1,5
Food contact approved

Packaging: Hand specific packed (left & right).

Type	Size	Pk	Cat. No.
707	6	25 PAIR	**112-1867**
707	7	25 PAIR	**112-1868**
707	8	25 PAIR	**112-1869**
707	9	25 PAIR	**112-1870**
707	10	25 PAIR	**112-1871**
707	11	25 PAIR	**112-1872**
707FL	6	12 PAIR	**112-2748**
707FL	7	12 PAIR	**112-2749**
707FL	8	12 PAIR	**112-2773**
707FL	9	12 PAIR	**112-2774**
707FL	10	12 PAIR	**112-2775**
707FL	11	12 PAIR	**112-2776**

Gloves, Green-Dex™ 6105 PF, biodegradable
Best

Nitrile, non sterile, powder-free, textured fingertips

Thanks to the ECO BEST TECHNOLOGY™ (EBT) these gloves are attractive to microbial activity and therefore biodegradable. They can be used for janitorial, automotive, laboratory analysis, food processing, intricate parts handling and pharmaceutical industries.

- Maintain the same physical properties (texture, appearance, etc.) as regular nitrile gloves
- Ambidextrous, textured fingertips for improved grip
- Contain no natural latex proteins reducing the potential for Type I glove-associated reactions

Colour: Green

Length: 241 mm

Thickness: 0,10 mm

EN 374, Cat. III, AQL 1,5
Food contact approved

Size	Pk	Cat. No.
S	100	**112-2864**
M	100	**112-2863**
L	100	**112-2862**
XL	100	**112-2865**

Gloves, Solo Ultra
Mapa Professionnel

Nitrile, non sterile, chlorinated, textured fingertips

These ambidextrous liquidproof gloves with beaded cuffs are made of nitrile. Ideal for food handling, laboratory work, small parts assembly.

- Excellent dexterity thanks to flexibility and reduced material thickness
- Easy to put on and take off
- Protection of the hand as well as handled products
- Recommended for persons sensitised to natural rubber proteins

Length: 245 mm

Thickness: 0,10 mm

Colour: White or blue

EN 374, Cat. III; AQL 1,5
Food contact approved

Colour	Size	Pk	Cat. No.
White	6	100	**112-0767**
White	7	100	**112-0768**
White	8	100	**112-0769**
White	9	100	**112-0770**
Blue	6	100	**112-0771**
Blue	7	100	**112-0772**
Blue	8	100	**112-0773**
Blue	9	100	**112-0774**

Medical examination gloves, NITRILE

Nitrile, non sterile, powder-free, textured fingertips

The gloves are manufactured from 100% nitrile which contains no natural rubber latex. They are excellent for use in environments where natural rubber is not desirable or for people with Type I allergies. The gloves are very light, but strong and durable, due to the excellent tensile and elongation properties.

- Ambidextrous
- Beaded cuffs
- Textured fingertips for an excellent grip

Length: 240 mm

Colour: Blue

EN 455, AQL 1,5

Size	Pk	Cat. No.
10×100 gloves/pack		
XS	1.000	**112-1878**
S	1.000	**112-1879**
M	1.000	**112-1880**
L	1.000	**112-1881**
XL	1.000	**112-1882**
10×150 gloves/pack		
XS	1.500	**112-1939**
S	1.500	**112-1940**
M	1.500	**112-1941**
L	1.500	**112-1942**
XL	1.500	**112-1943**

Examination gloves, Omega™ Techno
Nitritex

Nitrile, non sterile, powder-free, textured finish

Gloves with ambidextrous shape and beaded cuffs.

- Contains no natural latex proteins
- Each size carries a unique barcode on the inner dispenser box (EAN-13) and the outer carton (ITF-14), which allows automatic data entry into stock control systems

Length: 245 mm

Colour: Blue

EN 455, AQL 1.5

Packaging: 100 pieces per dispenser box.

Size	Pk	Cat. No.
XS	100	**112-3037**
S	100	**112-3036**
M	100	**112-3035**
L	100	**112-3034**
XL	100	**112-3033**

Examination gloves, N-Dex®
Best

Nitrile, non sterile, powder-free, smooth finish

Gloves offer tactile sensitivity, comfort, dexterity and are puncture-resistant. Reduce hand fatigue and minimise risks of allergies. Ideal for pharmaceutical, food, and medical use.

- Resistant against broad range of chemicals
- Ambidextrous, with straight cuff
- Elastic

Length: 240 mm

Thickness: 0,10 mm

Colour: Blue

EN 455; AQL 1.5

Size	Pk	Cat. No.
XS	100	**112-2209**
S	100	**112-2210**
M	100	**112-2211**
L	100	**112-2212**
XL	100	**112-2213**

Medical gloves, N-Dex® Ultimate 9905PF
Best

Nitrile, non sterile, powder-free, smooth surface

Ambidextrous gloves with low-modulus design and extended cuffs, which make them ideal for specialized fields like emergency medical response or for general industrial applications, like automotive repair and assembly.

- High tactile sensitivity and dexterity
- Conform to the wearer's hand for a precise, comfortable fit
- Minimises hand fatigue

Length: 280 mm

Thickness: 0,15 mm

Colour: Blue

EN 455, Cat. I; AQL 1,5

Size	Pk	Cat. No.
XS	50	**112-0332**
S	50	**113-0029**
M	50	**113-0028**
L	50	**112-0473**
XL	50	**112-2233**

Surgical gloves, Profile 3000™
Nitritex

Nitrile, sterile, powder-free, textured finish

These hand-specific surgical gloves feature a textured surface.

- Contain no natural latex proteins
- Each size carries a unique barcode on the inner dispenser box (EAN-13) and the outer carton (ITF-14), which allows automatic data entry into stock control systems

Colour: White

Length: 300 mm

EN 455, AQL 1.5

Packaging: One cuffed pair per inner wrapper; one inner wrapper per sealed Tyvek® pouch; 50 pairs per dispenser box.

Size	Pk	Cat. No.
7	50 PAIR	**112-3045**
7,5	50 PAIR	**112-3044**
8	50 PAIR	**112-3043**
8,5	50 PAIR	**112-3042**
10	50 PAIR	**112-3041**

Gloves, TouchNTuff® 93-700
Ansell

Nitrile, sterile, powder-free, textured finish

Manufactured from nitrile, these gloves offer a high chemical resistance and three times the puncture resistance of standard latex gloves. The gloves are thin enough to offer the dexterity for precision work, yet tough enough to resist tears and chemical contact. They are suitable for applications in critical environments (ISO Class 5 or higher) requiring sterility.

- Ambidextrous and with a beaded rolled cuff
- Unique formulation provides a high level of comfort and increased protection in the forearm (longer cuff)
- Free of natural rubber latex proteins: glove may be worn by latex sensitive (Type I) wearers
- Gloves are post cleaned, single pair packed and sterilized to deliver the optimum solution for critical environment applications

Length: 300 mm

Thickness: 0,135 ±0,015 mm (palm, single wall)

Colour: Green

EN 421, EN 374-2, Cat. III; AQL 1.5

Size	Pk	Cat. No.
6,5	200 PAIR	**112-2790**
7,5	200 PAIR	**112-2791**
8,5	200 PAIR	**112-2792**
9,5	200 PAIR	**112-2793**

Cleanroom Gloves, Kimtech Pure™ G3 NxT™
Kimberly-Clark

Nitrile, non sterile, powder-free, textured fingertips

Suitable for Class 1, ISO 3, M1.5 cleanrooms.

Ambidextrous gloves with beaded cuffs. Contain no natural rubber latex.

- Textured fingertips to facilitate control and grip
- Static dissipative in use
- Increased cleanliness

Length: 300 mm

Thickness: 0,13 mm (palm)

Colour: White

EN 374-1/-2, Cat. III, AQL 1,5

Packaging: Packaged in cleanroom-compatible polyethylene, 100 gloves per double poly bag, 10 bags per pack.

Size	Pk	Cat. No.
XS	1.000	**112-4820**
S	1.000	**112-4821**
M	1.000	**112-4822**
L	1.000	**112-4823**
XL	1.000	**112-4824**

Cleanroom gloves, KIMTECH PURE* G3 and G5 STERLING*
Kimberly-Clark

Nitrile, non sterile, powder-free, textured fingertips

Suitable for class 1/ISO 3 (STERLING* G3) or class 100/ISO 5 (STERLING* G5) cleanrooms.

Ambidextrous gloves with beaded cuffs. Latex-free.

- 100% nitrile for lower risk of glove-induced allergic type 1 reactions
- Textured fingertips for improved grip
- Static dissipative material for reduced ESD effect

Length: 300 mm

Thickness: 0,08 mm (palm)

Colour: Grey

EN 374-1/-2; Cat. III; AQL 1,5

Packaging: 250 gloves per double bagged PE pouch. 6 pouches per carton (1500 gloves per carton).

Type	Size	Pk	Cat. No.
G3 Sterling	XS	1.500	**112-4877**
G3 Sterling	S	1.500	**112-4878**
G3 Sterling	M	1.500	**112-4879**
G3 Sterling	L	1.500	**112-4880**
G3 Sterling	L+	1.500	**112-4881**
G3 Sterling	XL	1.500	**112-4882**
G5 Sterling	XS	1.500	**112-4871**
G5 Sterling	S	1.500	**112-4872**
G5 Sterling	M	1.500	**112-4873**
G5 Sterling	L	1.500	**112-4874**
G5 Sterling	L+	1.500	**112-4875**
G5 Sterling	XL	1.500	**112-4876**

Cleanroom gloves, KIMTECH PURE* G3 White Nitrile
Kimberly-Clark

Nitrile, non sterile, powder-free, textured fingertips

Suitable for use in Class 1, ISO 3, M1.5 or higher cleanrooms.

Ambidextrous gloves with beaded cuffs. Contain no natural rubber latex. Ideal for handling delicate equipment in microelectronics, semiconductor, optics and pharmaceutical industries.

- Textured fingertips to facilitate control and grip
- Beaded cuffs for added strength
- Static dissipative in use
- Silicone-free material
- Virus protection according to ISO16604

Length: 300 mm

Thickness: 0,13 mm (palm)

Colour: White

EN 374-1/-2/-3; Cat. III; AQL 1.5

Packaging: Packaged in cleanroom-compatible polyethylene. 100 gloves per double poly bag. 10 bags per box.

Size	Pk	Cat. No.
XS	1.000	**112-2604**
S	1.000	**112-0494**
M	1.000	**112-0496**
L	1.000	**112-0497**
XL	1.000	**112-0495**

Cleanroom gloves, KIMTECH PURE* G3
Kimberly-Clark

Nitrile, sterile, powder-free, textured finish

Suitable for use in Class 1, ISO 3 or M1.5 cleanrooms.

Hand-specific, sterile gloves with beaded cuff for cleanroom applications.

- Excellent dexterity and tactile sensitivity
- Contains no natural rubber latex or silicone
- Low endotoxin
- Validated to a Sterility Assurance Level (SAL) of 10^{-6}

Length: 300 mm

Thickness: 0,13 mm (palm)

Colour: White

EN 374-1/-2; Cat. III, AQL 1,5

Packaging: Walleted and pouched in polyethylene for cleanroom use. 1 pair/poly pouch, 20 pairs/ double poly bag, 10 double bags (200 pairs)/case

Size	Pk	Cat. No.
6	200 PAIR	**112-4837**
6,5	200 PAIR	**112-4838**
7	200 PAIR	**112-4839**
7,5	200 PAIR	**112-4840**
8	200 PAIR	**112-4841**
8,5	200 PAIR	**112-4842**
9	200 PAIR	**112-4843**
10	200 PAIR	**112-4844**

Cleanroom gloves, KIMTECH PURE* G3 Sterling*
Kimberly-Clark

Nitrile, sterile, powder-free, textured finish

Suitable for use in Class 1, ISO 3 or M1.5 cleanrooms or higher.

Hand-specific, sterile gloves with beaded cuff for cleanroom applications. When double-donned, these gloves deliver the equivalent feel and dexterity of a single latex glove without the risk of Type I latex allergic reactions.

- Environmentally responsible thanks to improved packaging that saves waste
- Static dissipative in use
- Comfortable fit, suitable for double donning
- Particles per cm^2 ≥0,5 micron: max. 1200

Length: 300 mm

Thickness: 0,08 mm (palm)

Colour: Grey

EN 374-1/-2, AQL 1,5, ISO 9001

Packaging: Double packed in polyethylene. 30 pairs per bag.

Size	Pk	Cat. No.
6	300 PAIR	**112-1858**
6,5	300 PAIR	**112-1859**
7	300 PAIR	**112-1860**
7,5	300 PAIR	**112-1861**
8	300 PAIR	**112-1862**
8,5	300 PAIR	**112-1863**
9	300 PAIR	**112-1864**
10	300 PAIR	**112-1865**

Cleanroom gloves, BioClean Excell™
Nitritex

Nitrile, sterile, powder-free, textured surface

Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.

These nitrile gloves with beaded cuffs are hand-specific and anatomically shaped.

- Contains no natural latex proteins, hypoallergenic
- Extended leaching in pure de-ionised water ensures extremely low levels of chlorides and extractable metals
- Nitrile is resistant to a wide range of chemicals
- Excellent anti-static properties

Colour: Natural

Length: 300 mm

EN 455, EN 374; Cat. III; AQL 1.5

Packaging: One cuffed pair per inner plastic wallet, one inner wallet per "Easy Tear" PE bag; 10 pairs per sealed outer PE bag, 20 outer bags per carton liner, one carton liner per carton (200 pairs).

Size	Pk	Cat. No.
6	200 PAIR	**112-1324**
6,5	200 PAIR	**112-1334**
7	200 PAIR	**112-1339**
7,5	200 PAIR	**112-1340**
8	200 PAIR	**112-1341**
8,5	200 PAIR	**112-1347**
9	200 PAIR	**112-1348**
10	200 PAIR	**112-1320**

Cleanroom gloves, BioClean Nano 4™
Nitritex

Nitrile, non sterile, powder-free, textured fingertips

Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.

These nitrile gloves with beaded cuffs provide good resistance against chemicals. They also have excellent ESD properties.

- Contain no natural latex proteins, hypoallergenic
- Extended leaching in pure de-ionised water ensures extremely low levels of chlorides and extractable metals
- Textured fingers provide enhanced grip

Colour: White

Length: 300 mm

EN 455, EN 374; Cat. III; AQL 1.5

Packaging: 100 pieces per sealed inner PE bag; one sealed inner PE bag per sealed outer PE bag; 10 outer PE bags per carton liner; one carton liner per carton (1000 pieces).

Size	Pk	Cat. No.
XS	1.000	**112-3313**
S	1.000	**112-3311**
M	1.000	**112-3310**
L	1.000	**112-3309**
XL	1.000	**112-3312**
XXL	1.000	**112-3314**

Cleanroom gloves, BioClean Biotac™
Nitritex

Nitrile, non sterile, powder-free, textured fingertips

Suitable for use in Class 100, ISO 5 or M.3 cleanrooms.

Ambidextrous gloves with beaded cuffs provide excellent grip.

- Extended leaching in pure de-ionised water ensures extremely low levels of chlorides and extractable metals
- Latex-free to eliminate Type I latex allergies
- Excellent ESD properties
- Beaded cuff provides easier donning and stability on the arm
- Each size carries a unique barcode on the outer bag of 100 pieces and the outer carton, which allows automatic data entry into stock control systems

Length: 300 mm

Colour: White

EN 455, EN 374; Cat. III; AQL 1,5

Packaging: 100 pieces per sealed PE bag; one sealed PE bag per sealed outer PE bag; 10 outer PE bags per carton liner; one carton liner per carton (1000 gloves).

Size	Pk	Cat. No.
S	1.000	**112-3071**
M	1.000	**112-3070**
L	1.000	**112-3069**
XL	1.000	**112-3072**
XXL	1.000	**112-3073**

Cleanroom gloves, Clean-Dex
Best

Nitrile, non sterile, powder-free, smooth finish

These ambidextrous gloves protect the hand from a wide array of chemical hazards and deliver low ESD and particulate counts, protecting high-end semi-conductors and perishable food-stuffs alike. The gloves are ideal for cleanroom, lab and food processing environments where exacting standards of industrial hygiene are required.

- Rolled cuff prevents dirt from entering the glove
- Surface provides good grip and repels wet substances
- Antistatic properties: Suitable for handling of electronic devices
- Great freedom of movement for the wrist

Length: 305 mm

Thickness: 0,12 mm

Colour: White

Cat. I

Size	Pk	Cat. No.
XS	1.000	**112-3316**
S	1.000	**112-3317**
M	1.000	**112-3318**
L	1.000	**112-3319**
XL	1.000	**112-3320**

Finger cots, LNR
North by Honeywell

Nitrile, non sterile, powder-free, smooth finish

Finger cots made of comfortable and stretchy nitrile with anti-static properties. Ideal for cleanroom applications, pharmaceutical industries and electronics assembly.

- Low particle count; eliminates damaging static discharge in many applications
- Very low extractables mean less contamination from reactive ions
- Excellent tactility and uniform thickness

Length: 67 mm

Thickness: 0,076 mm

Colour: Translucent

AQL 2,5; Cat. I

Size	Pk	Cat. No.
S	720	**112-1144**
M	720	**112-1149**
L	720	**112-1154**
XL	720	**112-1159**

Food gloves, Vinyl Food

Vinyl, non sterile, powder-free, smooth finish

Ambidextrous and durable gloves that are ideal for food handling, catering and kitchen work, but also for low risk medical applications, cleaning and janitorial tasks and general purposes. They are made of synthetic PVC and provide a comfortable fit.

- Excellent textile sensitivity
- Latex-free and powder-free, thus skin friendly
- Food contact approved

Colour: Blue

Length: 240 mm

Thickness: >0,06 mm

Food contact approved (not suitable for fatty food), AQL 2,5

Packaging: 10×100 gloves/pack

Size	Pk	Cat. No.
S	1.000	**112-1883**
M	1.000	**112-1884**
L	1.000	**112-1885**
XL	1.000	**112-1886**

Gloves, VINYL

Vinyl, non sterile, powdered or powder-free, smooth finish

Ambidextrous and durable gloves that are ideal for food handling, catering and kitchen work and low risk medical applications. They are made of vinyl and free from latex proteins and accelerants.

- Particularly skin friendly for users with latex allergy
- Rolled cuffs minimise the risk of tearing
- Smooth surface
- Food contact approved according to Regulation EC 1935/2004 (non fatty food)

Length: 240 mm

Thickness: 0,075 mm (palm - single measured)

Colour: Transparent

EN 374, EN 455, Cat. I; AQL 1,5

Type	Size	Pk	Cat. No.
Powdered	S (6,5)	100	**112-2758**
Powdered	M (7,5)	100	**112-2759**
Powdered	L (8,5)	100	**112-2760**
Powder-free	S (6,5)	100	**112-2761**
Powder-free	M (7,5)	100	**112-2762**
Powder-free	L (8,5)	100	**112-2763**

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Gloves, NeoTouch® 25-101 and 25-201
Ansell

Neoprene, non sterile, powder-free, textured fingertips

These neoprene single-use gloves with beaded cuffs provide excellent resistance to acids and bases. Ideal for use in the pharmaceutical and chemical industries.

- Prevents Type I allergies and skin reactions, free of plasticisers
- Excellent comfort, similar to that of latex
- Polyurethane inner coating ensures easy donning
- Textured fingertips provide a secure grip in both dry and wet conditions
- Green colour for easy identification

Length: 240 or 290 mm

Thickness: 0,13 mm

Colour: Green

EN 374, Cat. III; AQL 1.5

Type	Length (mm)	Size	Pk	Cat. No.
25-101	240	6,5 - 7	100	**112-0027**
25-101	240	7,5 - 8	100	**112-0028**
25-101	240	8,5 - 9	100	**112-0029**
25-101	240	9,5 - 10	100	**112-0030**
25-201	290	6,5 - 7	100	**112-0031**
25-201	290	7,5 - 8	100	**112-0032**
25-201	290	8,5 - 9	100	**112-0033**
25-201	290	9,5 - 10	100	**112-0034**

Gloves, TouchNTuff® Polyisoprene 83-300/83-500
Ansell

Polyisoprene, sterile or non sterile, powder-free, anti-slip finish

These single-use thin polymer gloves provide superior tactility and flexible protection for both workers and products in diverse wet and dry environments, requiring contamination control. Ideal for people working with potentially hazardous chemicals as the gloves are chemical splash resistant. Also suitable for use in ISO Class 5 or higher cleanroom environments.

- Hand specific and comfortable to wear for a longer period of time
- Do not contain natural rubber latex: safe for latex-sensitive (Type I) laboratory professionals
- SureFit Technology™: Gloves securely fit to the forearm and cuffs are prevented from rolling down
- Inner coating technology enables ease of dry and wet hand donning
- Anti-slip finish helps prevent slippage

Length: 305 - 310 mm

Thickness: 0,21 ±0,04 mm (palm, single wall)

Colour: White

EN 421, EN 374-2, Cat. III; AQL 1.0

Type	Size	Pk	Cat. No.
Non sterile	5,5	200 PAIR	**112-3175**
Non sterile	6	200 PAIR	**112-3176**
Non sterile	6,5	200 PAIR	**112-3177**
Non sterile	7	200 PAIR	**112-3178**
Non sterile	7,5	200 PAIR	**112-3179**
Non sterile	8	200 PAIR	**112-3180**
Non sterile	8,5	200 PAIR	**112-3181**
Non sterile	9	200 PAIR	**112-3182**
Sterile	5,5	200 PAIR	**112-2782**
Sterile	6	200 PAIR	**112-2783**
Sterile	6,5	200 PAIR	**112-2784**
Sterile	7	200 PAIR	**112-2785**
Sterile	7,5	200 PAIR	**112-2786**
Sterile	8	200 PAIR	**112-2787**
Sterile	8,5	200 PAIR	**112-2788**
Sterile	9	200 PAIR	**112-2789**

Gloves, TouchNTuff® 73-300/73-500
Ansell

Neoprene/polychloroprene, sterile or non sterile, powder-free, smooth finish

Made from 100% polychloroprene, these gloves offer splash resistance against a broad range of chemicals. With no natural rubber latex or accelerators used in manufacturing, the risk of Type I and IV skin allergies is reduced. Ideal for use in controlled environments, in medical and research laboratories, in the electronics and pharma industry as well as in biotechnology.

- New formulation provides increased sensitivity due to the polymer thickness
- Produced on ergonomically-designed hand specific formers to enhance fit and comfort, and to reduce hand fatigue and stress
- SureFit Technology™ eliminates "cuff roll down"
- Synthetic polyurethane inner coating enables ease of dry and wet hand donning
- Design and polymer thickness facilitate ease and comfort of double-gloving

Length: 305 mm

Thickness: 0,13 mm

Colour: Cream

EN 374, EN 421; Cat. III; AQL 1,0

Packaging information:
Non sterile gloves: 20 right and left hand gloves packed in separate compartments in a polybag; 2 polybags per master polybag, 5 master polybags per case liner; 200 pairs per carton.
Sterile gloves: One pair per poly wallet, sealed in a poly envelope; 10 pairs per outer polybag; 5 sealed outer polybags per master polybag; sealed master polybags per lined carton; 200 pairs per carton.

Type	Size	Pk	Cat. No.
Non sterile	5,5	200 PAIR	**112-3195**
Non sterile	6	200 PAIR	**112-3196**
Non sterile	6,5	200 PAIR	**112-3197**
Non sterile	7	200 PAIR	**112-3198**
Non sterile	7,5	200 PAIR	**112-3199**
Non sterile	8	200 PAIR	**112-3292**
Non sterile	8,5	200 PAIR	**112-3293**
Non sterile	9	200 PAIR	**112-3294**
Sterile	5,5	200 PAIR	**112-3295**
Sterile	6	200 PAIR	**112-3296**
Sterile	6,5	200 PAIR	**112-3297**
Sterile	7	200 PAIR	**112-3298**
Sterile	7,5	200 PAIR	**112-3299**
Sterile	8	200 PAIR	**112-3300**
Sterile	8,5	200 PAIR	**112-3301**
Sterile	9	200 PAIR	**112-3302**

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Cleanroom gloves, DermaShield®
Ansell

Polychloroprene (neoprene), sterile or non sterile, powder-free, bisque fingertips

The sterile versions are suitable for use in Class 100, ISO 5 or M3.5 cleanrooms. The non sterile gloves should be used in controlled but non sterile environments.

Hand specific, ergonomically designed glove with a straight cuff. Ideal for use in laboratories, pharmaceutical, biotech and medical device manufacturing.

- Optimal combination of product and worker protection
- Accelerator free: no allergies
- Softness and flexibility provides high comfort comparable to natural rubber latex
- High resistance to puncture and a wide range of chemicals
- Specific external surface treatment and constant monitoring of grip values

Length: 310 mm

Thickness: 0,18 mm (cuff), 0,175 mm (palm), 0,85 mm (fingertip)

Colour: Green

EN 374, EN 421; Cat. III; AQL 0.65

Packaging: The sterile gloves are packaged as single pairs in a poly wallet, sealed in a poly envelope; 10 pairs per sealed polybag; 5 sealed polybags to a master bag; 4 master bags per case liner; 200 pairs per carton.

The non sterile gloves are bulk packed: 20 right and left hand gloves are packed in separate compartments in a polybag; 1 polybag per vacuum sealed polybag; 2 polybags per vacuum sealed master polybag; 5 master polybags per case liner; 200 pairs per carton.

Type	Size	Pk	Cat. No.
Sterile, straight cuff	6	200 PAIR	**112-3591**
Sterile, straight cuff	6,5	200 PAIR	**112-3592**
Sterile, straight cuff	7	200 PAIR	**112-3593**
Sterile, straight cuff	7,5	200 PAIR	**112-3594**
Sterile, straight cuff	8	200 PAIR	**112-3595**
Sterile, straight cuff	8,5	200 PAIR	**112-3596**
Sterile, straight cuff	9	200 PAIR	**112-3597**
Sterile, beaded cuff	6	200 PAIR	**112-3788**
Sterile, beaded cuff	6,5	200 PAIR	**112-3789**
Sterile, beaded cuff	7	200 PAIR	**112-3790**
Sterile, beaded cuff	7,5	200 PAIR	**112-3791**
Sterile, beaded cuff	8	200 PAIR	**112-3792**
Sterile, beaded cuff	8,5	200 PAIR	**112-3793**
Sterile, beaded cuff	9	200 PAIR	**112-3794**
Non sterile, beaded cuff	6	200 PAIR	**112-3800**
Non sterile, beaded cuff	6,5	200 PAIR	**112-3801**
Non sterile, beaded cuff	7	200 PAIR	**112-3802**
Non sterile, beaded cuff	7,5	200 PAIR	**112-3803**
Non sterile, beaded cuff	8	200 PAIR	**112-3804**
Non sterile, beaded cuff	8,5	200 PAIR	**112-3805**
Non sterile, beaded cuff	9	200 PAIR	**112-3806**

Cleanroom gloves, BioClean Suprene™
Nitritex

Neoprene, sterile, powder-free, textured finish

Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.

These anatomically shaped gloves are processed to ensure ISO Class 4 and EU GMP Grade A compatibility. Thanks to their excellent strength and stretch these gloves are the ideal choice for use within isolators.

- Latex-free to eliminate Type 1 latex allergies
- Beaded cuff and textured surface for increased tactility
- Double-donnable with good grip
- Neoprene gives strength and durability
- Excellent ESD properties

Length: 300 mm

Colour: Mint green

EN 374, EN 455, ASTM D 6978-05 tested; Cat. III, AQL 1,5

Packaging information: One cuffed pair is sealed in an inner plastic wallet which is then sealed in an EasyTear™ PE pouch. Ten pouches are sealed in an outer PE bag and the carton liner contains 20 outer bags.

Size	Pk	Cat. No.
6	200 PAIR	**112-3337**
6,5	200 PAIR	**112-3338**
7	200 PAIR	**112-3339**
7,5	200 PAIR	**112-3340**
8	200 PAIR	**112-3341**
8,5	200 PAIR	**112-3342**
9	200 PAIR	**112-3343**

General purpose gloves, proFood® 87-315
Ansell

Hand-specific reusable gloves are made of 100% latex and feature a pure cotton flock lining and a fish scale finish. Ideal for applications in food processing or for general cleaning and maintenance work.

- Chlorinated inside to minimise the risk of allergy
- Chlorinated outside to increase mechanical and chemical resistance

Length: 300 mm

Thickness: 0,40 mm

Colour: Blue

EN 388 (X010), EN 374, Cat. III, AQL 0.65
Food contact approved

Packaging: Individually packed in pairs.

Size	Pk	Cat. No.
6,5 - 7	1 PAIR	**112-3639**
7,5 - 8	1 PAIR	**112-3640**
8,5 - 9	1 PAIR	**112-3641**
9,5 - 10	1 PAIR	**112-3642**

General purpose gloves, proFood® 79-340
Ansell

These reusable gloves are made from an innovative nitrile compound, which offers all the qualities of nitrile but with the comfort and dexterity similar to that of a natural latex glove. They feature a pure cotton lining and a lozenge finish, which provides an excellent grip when handling meats and other foods. Suitable for contact with all fatty foods.

- Free of latex proteins, no risks of allergies
- Outlasts natural rubber when in contact with meat or fish
- Outstanding flexibility, even in cold conditions
- Increased resistance to chemicals, compared to natural rubber

Length: 300 mm

Thickness: 0,3 mm

Colour: Green

EN 374, EN 388 (2001), Cat. III; AQL 1,5
Food contact approved

Packaging: Individually packed in pairs.

Size	Pk	Cat. No.
6,5 - 7	1 PAIR	**112-0215**
7,5 - 8	1 PAIR	**112-0216**
8,5 - 9	1 PAIR	**112-0217**
9,5 - 10	1 PAIR	**112-0214**

Industrial gloves, G12
Marigold

Durable, unsupported natural rubber gloves with flock lining. The gloves can be used for janitorial applications, food handling & processing, manufacturing and maintenance, and in laboratories.

- For use in low hazard areas
- Beaded cuff for tear resistance and easy pull on
- Good abrasion resistance
- Ideal for colour coding systems i.e. yellow in kitchens, pink in washrooms etc.

Length: 300 mm

Thickness: 0,85 mm (double wall)

EN 388 (2010), EN 374, Cat. III; AQL < 0,65
Food contact approved

Colour	Size	Pk	Cat. No.
Pink	6,5	12 PAIR	**112-2819**
Pink	7,5	12 PAIR	**112-2820**
Pink	8,5	12 PAIR	**112-2821**
Pink	9,5	12 PAIR	**112-2831**
Yellow	6,5	12 PAIR	**112-5047**
Yellow	7,5	12 PAIR	**112-5048**
Yellow	8,5	12 PAIR	**112-5049**
Yellow	9,5	12 PAIR	**112-5050**

Compatibility Overview for Chemical Resistant Gloves

It is essential to choose a glove adapted to the application in order to guarantee the safety of the user and the protection of the product.
According to the legislation relating to harmful products, the employer is responsible for ensuring the safety of the users.

REMARK: Our table of chemical resistance is given as a suggestion only. It does not replace your own evaluation under real conditions of use.

Selection Guide

Chemicals	Natural Latex	Nitrile	Neoprene	PVC	PVA
Solvents	-	+	+	-	-
Ketones	+	-	+	-	+
Caustic products	+	+	+	+	-
Acids	+	+	+	+	-
Hydrocarbons	-	+	+	-	+
Oils	-	+	+	+	+
Greases	-	+	+	+	-
Organic solvents	-	+	+	-	+

Compatibility Overview

++	Excellent	+	good	±	Acceptable	-	Not recommended

	Natural Latex	Neoprene	Nitrile	PVC
2,3-dichloro-1-propene	-	-	±	-
Acetaldehyde	++	++	±	-
Acetic acid 50%	++	++	++	++
Acetic acid glacial	++	++	+	±
Acetone	++	+	-	-
Alcoholic beverages	++	++	++	++
Ammonia conc.	++	++	++	++
Ammonium acetate	++	++	++	++
Ammonium carbonate	++	++	++	++
Ammonium chloride	++	++	++	++
Ammonium nitrate	++	++	++	++
Amyl acetate	-	±	±	±
Amyl alcohol	++	++	++	++
Aniline	+	+	±	-
Animal greases	±	++	++	-
Asphalt	-	±	++	-
Bacon fat	-	++	++	±
Beets	++	++	++	++
Benzaldehyde	-	-	±	-
Benzene	-	-	±	-
Benzyl alcohol	±	+	+	+
Birds	±	++	++	-
Bleach	++	++	++	++
Borax	++	++	++	++
Boric acid conc.	++	++	++	++
Brake oils	+	++	++	±
Bromides	-	+	+	-
Butanol	++	++	++	++
Butter	-	++	++	±
Butyl acetate	-	±	±	±
Calcium acetate	++	++	++	++
Calcium chloride	++	++	++	++
Calcium fluoghosphate	++	++	++	++
Calcium hydroxide	++	++	++	++
Calcium hypochlorite	++	++	++	++
Calcium nitrate	++	++	++	++
Calcium phosphate	++	++	++	++
Carbon tetrachloride	-	±	+	±
Castor oil	-	++	++	-
Chlorine	-	++	++	++
Chloroacetone	++	++	-	-
Chlorobenzene	-	±	±	-
Chlorobenzene	-	±	±	-
Chloroform	-	±	+	-

	Natural Latex	Neoprene	Nitrile	PVC
Chromic acid	-	-	+	-
Citric acid	++	++	++	++
Creosote	+	++	++	++
Cresol	-	++	++	++
Cutting oil	-	++	++	++
Cyclohexane	-	+	-	-
Cyclohexanol	++	++	++	++
Cyclohexanone	+	+	-	-
di-Butyl ether	-	+	++	-
di-Butyl phthalate	-	+	++	-
Dichloromethane	-	-	+	-
Diesel	-	+	++	+
Diethanolamine	++	++	++	++
Dioctyl phthalate	-	++	++	-
Domestic detergents	++	++	-	-
Ethanol	++	++	++	++
Ethanol amine	++	++	++	++
Ethanolamine	++	++	++	++
Ethyl acetate	-	+	+	+
Ethylamine	+	+	++	+
Ethylaniline	+	++	++	+
Ethylene glycol	++	++	++	++
Fishes and shellfish	+	++	++	+
Flueins	++	++	++	++
Fluorides	++	++	++	++
Formaldehyde to 30%	++	++	++	++
Formic acid methyl ester	+	++	+	+
Formic acid methyl ester	+	++	+	+
Formic acid to 90%	-	-	+	+
Formol (or formaldehyde)	++	++	++	++
Fuel oil	-	+	++	+
Fuels	-	+	++	+
Furol (Furfurol or Furaldehyde)	++	-	-	-
Gasoil	-	+	++	+
Glycerine	++	++	++	++
Glycols	++	++	++	++
Groundnut oil	-	++	++	+
Hair bleaching products	++	++	++	++
Hair Dye	++	++	++	++
Hexane	-	+	++	+
Hydoxy-4-methyl-4-pentanone-2	++	++	-	+
Hydraulic fluids (esters)	++	++	++	+
Hydraulic oils (petroleum)	-	+	++	+
Hydrochloric acid 30% and 5%	++	++	++	-
Hydrofluoric acid to 30%	-	++	++	-
Hydrogen bromide	++	+	+	+
Hydrogen peroxide solution	+	++	++	-
Isobutanol	++	++	++	++
Isobutyl ketone	++	++	-	-
Kerosene	-	+	++	+
Lactic acid to 85%	+	++	++	++
Linseed oil	-	++	++	+
Lubricating oils	-	+	++	+
Magnesia (MgO)	++	++	++	++
Manure	++	++	++	++
Methanol	++	++	++	++
Methyl acetate	+	++	+	+
Methyl ethyl ketone	++	-	-	-
Methyl ethyl ketone	++	-	-	-
Methyl isobutyl ketone	-	+	-	-
Methyl isobutyl ketone	-	+	-	-
Methylamine	++	-	++	++
Methylaniline	+	+	++	++
Methylcyclopentane	-	+	++	+
Methylene chloride	-	+	+	-
Milk and milk products	+	++	++	-
Mineral greases	-	+	++	+

	Natural Latex	Neoprene	Nitrile	PVC
Naphtha	-	*	++	*
Naphthalene	-	*	*	*
n-Butyl amine	++	++	++	++
Nickel chloride	++	++	++	++
Nitric acid to 20%	*	*	*	*
Nitrobenzene	-	*	*	-
Nitrohydrochloric acid	-	*	*	*
Nitropropane	++	*	*	-
Non-alcoholic beverages	++	++	++	++
Octanol	*	++	++	*
Oil-based paint	-	*	++	*
Oils for turbines	-	*	++	*
Oleic acid	*	++	++	*
Olive oil	-	++	++	*
Oxalic acid	++	++	++	++
Paraffin oil	-	*	++	*
Perchlorethylene	-	*	*	*
Perfumes and essences	++	++	++	++
Petrol (for a car)	-	*	++	*
Petroleum products	-	*	*	*
Petroleum spirit	-	*	++	-
Phenol	*	*	*	*
Phosphoric acid	++	++	++	++
Pine oil	-	*	++	*
Polyester resins	-	*	*	*
Potash conc.	++	++	++	++
Potash pellets	++	++	++	++
Potassium acetate	++	++	++	++
Potassium carbonate	++	++	++	++
Potassium carbonate	++	++	++	++
Potassium chloride	++	++	++	++
Potassium cyanide	++	++	++	++
Potassium dichromate	*	++	++	++
Potassium nitrate	++	++	++	++
Potassium permanganate	++	++	++	++
Potassium phosphate	++	++	++	++
Potassium sulphate	++	++	++	++
Powder detergent	++	++	++	++
Products for setting hair	++	++	++	++
Quick lime	++	++	++	++
Salicylic acid methyl ester	++	++	++	++
Salicylic acid methyl ester	++	++	++	++
Shampoos	++	++	++	++
Shuttle oil	-	*	*	-
Silicates	++	++	++	++
Slaked lime	++	++	++	++
Soda conc.	++	++	*	*
Soda pellets	++	++	*	*
Sodium bisulphite	++	++	++	++
Sodium carbonate	++	++	++	++
Sodium carbonate	++	++	++	++
Sodium chloride	++	++	++	++
Sodium hypochlorite	++	++	++	*
Sodium nitrate	++	++	++	++
Sodium phosphate	++	++	++	++
Sodium sulphate	++	++	++	++
Soya oil	-	++	++	*
Stearic acid	*	++	*	*
Styrene	-	*	*	*
Sulphite/bisulphate, hyposulfites	++	++	++	++
Sulphuric acid conc.	-	*	-	*
Sulphuric acid dil. (battery)	++	++	++	++
Sulphuric ether (pharmacy)	*	++	++	*
Tartaric acid	++	++	++	++
Terpentine	-	*	++	*
Tetrahydrofuran (THF)	*	*	-	-
Tin chloride	*	++	++	++

	Natural Latex	Neoprene	Nitrile	PVC
Toluene	+	+	-	+
Tributyl phosphate	+	-	-	+
Trichloroethylene	-	+	+	-
Tricresyl phosphate	++	-	++	-
Triethanolamine to 85%	++	++	++	++
Trinitrobenzene	-	+	-	+
Trinitrotoluene	-	+	-	+
Triphenyl phosphate	+	++	++	+
Vinegar and condiments	++	++	++	-
Water paint	++	++	++	++
Weed killer	++	-	-	-
White spirit	-	-	++	+
Xylene	-	+	-	-
Xylophene	-	+	++	+
Zinc sulphate	++	++	++	++

VWR SAFETY CATALOGUE

From head to toe protection

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Chemical resistant gloves, Barrier®
Ansell

Chemically resistant 5-layer laminated gloves with a hand specific and ergonomic design. Ideal for use in laboratories, automotive, aerospace and pharamceutical industry, environmental clean up or general chemical industry. Always to be combined with an outer rubber glove, for abrasion resistance.

- Wide spectrum resistance
- 100% inspected: Each glove is individually air pressure tested
- Easy to put on and comfortable to wear

Length: 380 - 410 mm

Thickness: 0,062 mm

Colour: White

EN 374 (ABC), Cat. III, AQL 0.065

Size	Pk	Cat. No.
6	1 PAIR	**112-0945**
7	1 PAIR	**112-0946**
8	1 PAIR	**112-1009**
9	1 PAIR	**112-1010**
10	1 PAIR	**112-1011**
11	1 PAIR	**112-0944**

Chemical resistant gloves, Sol-Vex®, 37-655/37-185/37-675
Ansell

Sol-Vex® 37-675

The Sol-Vex® glove has a tough, chemical resistant nitrile coating. Available in different styles with or without flock liner, the gloves are the ideal choice for safe handling in a wide range of work environments where harsh chemicals are present.

- Fully reusable, with an unequalled abrasion resistance and mechanical protection
- Flocked lining provides high comfort for the wearer
- Sand patch finish provides a smooth surface: Suitable for handling fragile parts

Length: 330 or 455 mm

Thickness: 0,38 or 0,56 mm

Colour: Green

EN 374, EN 388; EN 1149, Cat. III, AQL 0.65

Type	Size	Pk	Cat. No.
Unflocked; length: 330 mm; thickness: 0,38 mm; EN 388 (4101), EN 374 (JKL)			
37-655	10	12 PAIR	**112-0279**
37-655	11	12 PAIR	**112-0280**
37-655	7	12 PAIR	**112-0281**
37-655	8	12 PAIR	**112-0282**
37-655	9	12 PAIR	**112-0283**
Unflocked; length: 455 mm; thickness: 0,56 mm; EN 388 (4102), EN 374 (AKL)			
37-185	10	12 PAIR	**112-2321**
37-185	11	12 PAIR	**112-2927**
37-185	7	12 PAIR	**112-2928**
37-185	8	12 PAIR	**112-2929**
37-185	9	12 PAIR	**112-1168**
Flocked; length: 330 mm, thickness: 0,38 mm; EN 388 (4101), EN 374 (JKL)			
37-675	10	12 PAIR	**112-0210**
37-675	11	12 PAIR	**112-0966**
37-675	6	12 PAIR	**112-0967**
37-675	7	12 PAIR	**112-1380**
37-675	8	12 PAIR	**112-1381**
37-675	9	12 PAIR	**112-1382**

Chemical resistant gloves, Sol-Vex® Premium 37-900
Ansell

These cotton flock lined gloves feature a special nitrile coating and a textured finish ensuring a safe grip. Ideal for use in chemical processing, manufacture of semiconductors and agriculture (handling of pesticides).

- Density tested
- Anatomical design, reduces hand fatigue
- Sanitised/Actifresh: Contains fungicidal and bacteriostatic agent to maintain hand hygiene and protect against skin irritation

Length: 380 mm

Thickness: 0,425 mm

Colour: Red

EN 388 (4102), EN 374 (AKL), Cat. III; AQL 0.065

Size	Pk	Cat. No.
7	1 PAIR	**112-0970**
8	1 PAIR	**112-0971**
9	1 PAIR	**112-0972**
10	1 PAIR	**112-0968**
11	1 PAIR	**112-0969**

Chemical resistant gloves, Sol-Knit®
Ansell

These strong reusable nitrile gloves feature a 100% cotton liner and textured palm and fingers. They provide excellent resistance to abrasion, cuts and snags plus first-class chemical protection.

- Excellent wet and dry grip
- Offer optimum flexibility, comfort and protection
- Withstand petrochemicals, alcohols, detergents, fats and oils plus solvents

Colour: Green

EN 374, EN 388 (4111), EN 407 (X1XXXX), Cat. III; AQL 1.0

Length (mm)	Size	Pk	Cat. No.
310	7	1 PAIR	**112-3507**
310	8	1 PAIR	**112-3508**
310	9	1 PAIR	**112-3509**
310	10	1 PAIR	**112-3506**

Chemical resistant gloves, Virtex™ 79-700
Ansell

This nitrile glove is designed specifically to offer outstanding comfort, flexibility and good chemical resistance. The Aquadri™ technology (Ansell Moisture Management Technology™) gives this reusable glove excellent moisture absorption capabilities and keeps users hands drier for a longer period of time. The nitrile formulation is designed to provide good mechanical and chemical performance levels especially in environments where hydro-carbon based chemicals, oils and greases are present.

- Extremely thin and soft, offers the dexterity of a single use glove
- Specific lozenge pattern increases oil grip
- Non-chlorinated outer surface helps to enhance grip
- Ansell Moisture Management Technology™: lower tendency to shed (even up to 50% less shedding) compared to traditional cotton flock gloves

Length: 310 mm

Thickness: 0,225 mm

Colour: Blue

EN 374, 388 (1001), 421, 1149; AQL 0.65

Size	Pk	Cat. No.
7	50 PAIR	**112-3732**
8	50 PAIR	**112-3733**
9	50 PAIR	**112-3734**
10	50 PAIR	**112-3735**
11	50 PAIR	**112-3736**

Chemical resistant gloves, Neotop® 29-500
Ansell

These anatomically shaped gloves offer a medium duty chemical protection, e.g. acids, caustics, alcohols and many solvents.

- Superior flexibility for less hand fatigue
- Ideal for use in cold conditions, neoprene maintains its superb elasticity
- Pure cotton flock lining: Soft, comfortable and absorbent

Length: 310 mm

Thickness: 0,75 mm

Colour: Black

EN 374 (AKL), EN 388 (3121); Cat. III; AQL 0.65

Size	Pk	Cat. No.
XS	1 PAIR	**112-1369**
S	1 PAIR	**112-2308**
M	1 PAIR	**112-2309**
L	1 PAIR	**112-2310**
XL	1 PAIR	**112-1373**

Chemical resistant gloves, Neox® 09-430/09-924
Ansell

These neoprene gloves offer optimal protection against a wide range of chemicals, oils, acids, caustics, alcohols and many solvents. Comfortable anatomical glove shape which follows the contours of the hand at rest.

- Good resistance to mechanical hazards
- Improves dexterity and reduces hand fatigue
- Permits intermittent handling in hot liquids up to 180 °C and handling in cold temperatures down to –25 °C

Length: 350 or 800 mm

Colour: Black

EN 374 (AKL), EN 388 (3121); Cat. III; AQL 1.5

Type	Length (mm)	Size	Pk	Cat. No.
09-924	350	10	1 PAIR	**112-3315**
09-430	800	10	1 PAIR	**112-0268**

Chemical and heat resistant gloves, Scorpio® 19-024/19-026
Ansell

These gloves combine the flexibility and chemical resistance of neoprene with the comfort and heat resistance of a soft thermal liner. They are designed to protect users in applications where thermal and chemical risks are present. CAUTION: Not for use in or around open flame.

- Neoprene coating protects against a wide range of chemicals
- Excellent mechanical and chemical properties (protects against greases and oils)
- Comfortable insulating double liner provides protection from intermittent contact with hot surfaces up to 180 °C
- With pull out inner lining and hang-up loop

Length: 460 or 660 mm

Colour: Black

EN 374 (AKL), EN 388 (3222), EN 407 (32XX4X), EN 511 (121), Cat. III; AQL 1.0

Type	Length (mm)	Size	Pk	Cat. No.
19-024	460	8	1 PAIR	**112-2396**
19-026	660	8	1 PAIR	**112-2307**
19-024	460	10	1 PAIR	**112-2397**
19-026	660	10	1 PAIR	**112-2398**

Chemical resistant gloves, Scorpio® 08-352/08-354
Ansell

Neoprene gloves with exceptional flexibility, offer increased protection against a wide range of chemicals. 100% liquid proof, gloves feature a soft stretchy knit liner with no seams in the working area and added forearm protection.

- Superb mobility and fingertip sensitivity
- Excellent grip on wet and slippery materials
- Extremely comfortable to wear; cushions the hand, absorbs perspiration and prevents chafing
- Safer handling and reduced hand fatigue mean increased productivity

Length: 300 or 350 mm

Colour: Green

EN 374 (AKL), EN 388 (3121), Cat. III; AQL 1,0

Type	Length (mm)	Size	Pk	Cat. No.
08-352	300	8	1 PAIR	**112-3747**
08-352	300	9	1 PAIR	**112-0267**
08-352	300	10	1 PAIR	**112-0266**
08-354	350	8	1 PAIR	**112-2157**
08-354	350	9	1 PAIR	**112-2158**
08-354	350	10	1 PAIR	**112-2156**

Chemical resistant gloves, PVA® 15-554
Ansell

These comfortable anatomical gloves with pre-curved fingers and winged thumb are made from a PVA compound, which remains inert in the strongest organic, aromatic and chlorinated solvents. Caution: Not for use in water or water based solutions.

- Polyvinyl alcohol coating lasts 10 - 15 times longer than any other coating
- Soft two-piece knitted liner cushions the hand and absorbs perspiration
- Virtually no absorption or extraction of ions
- Exceptionally light and flexible

Length: 355 mm

Colour: Red

EN 374 (BCD), EN 388 (3121), EN 1149, Cat. III; AQL 1.0

Size	Pk	Cat. No.
9	1 PAIR	**112-0269**
10	1 PAIR	**112-2180**

Chemical resistant gloves, Stanzoil NK22
Mapa Professionnel

These anatomically designed, liquid-proof gloves are made of blue neoprene over a cotton knit lining. They feature curved fingers, contoured palm and a non slip finish on the palm and fingers area.

- Two gloves in one for safer chemical protection
- Raised pattern provides optimum grip
- High comfort and thermal insulation thanks to the cotton lining
- Good mechanical resistance

Length: 355 mm

Thickness: 0,9 mm

Colour: Blue

EN 374 (ACKL), EN 388 (2121), EN 407 (X1XXXX), Cat. III; AQL 1.5

Size	Pk	Cat. No.
7	12 PAIR	**112-0676**
8	12 PAIR	**112-0677**
9	12 PAIR	**112-3382**
10	12 PAIR	**112-0674**
11	12 PAIR	**112-0675**

Chemical resistant gloves, Ultranitril 492
Mapa Professionnel

These anatomically designed gloves with quality flock lining provide good chemical resistance to hydrocarbon derivatives, alcohols, aromatic and chlorinated solvents. Ideal for use in manufacturing industries using cutting oils, metal treatment using solvents, chemical treatments, automotive industries and food processing.

- Longer working life: Excellent mechanical resistance (abrasion, puncture)
- Double layer process: Enhanced chemical protection
- Recommended for individuals sensitised to natural rubber proteins

Length: 320 mm

Thickness: 0,38 mm

Colour: Green

EN 388 (4101), EN 374 (AJKL), Cat. III, AQL 1,5

Size	Pk	Cat. No.
6	1 PAIR	**112-0695**
7	1 PAIR	**112-0009**
8	1 PAIR	**112-0010**
9	1 PAIR	**112-0008**
10	1 PAIR	**112-0011**
11	1 PAIR	**112-0694**

Chemical resistant gloves, Astroflex
Marigold

These seamless natural rubber latex gloves with lining and knitted cuffs are ideal for use in fishing industry, oyster farming, general janitorial, chemical cleaning, general wet and dry handling and food handling.

- Seamless liner for greater comfort during use
- Wrinkled finish on hand ensures good grip in both wet and dry conditions
- High flexibility and excellent levels of dexterity
- Allows contact up to 250 °C

Length: 300 mm

Thickness: 2,5 mm (double wall)

Colour: Blue

EN 388 (2241), EN 374 (264 AKL), EN 407 (X2XXXX); Cat. III
Food contact approved

Size	Pk	Cat. No.
S	12 PAIR	**112-2095**
M	12 PAIR	**112-2096**
L	12 PAIR	**112-2097**
XL	12 PAIR	**112-2098**
XXL	12 PAIR	**112-2099**

Chemical resistant gloves, Emperor
Marigold

Unlined black natural rubber latex gloves. Ideal for use where heavy duty protection is essential.

- Beaded cuff for tear resistance and easy donning
- High level of chemical resistance
- Two different weights available

Lengths: 260, 440 and 600 mm

Thickness: up to 2,6 mm (heavy weight)

Colour: Black

EN 388 (4121), EN 374 (ACKL), Cat. III

Length (mm)	Size	Pk	Cat. No.
Medium weight gloves			
260	7,5	1 PAIR	**112-0794**
440	7,5	1 PAIR	**112-0806**
600	7,5	1 PAIR	**112-0818**
260	8,5	1 PAIR	**112-0795**
440	8,5	1 PAIR	**112-0807**
600	8,5	1 PAIR	**112-0819**
260	9,5	1 PAIR	**112-0796**
440	9,5	1 PAIR	**112-0808**
600	9,5	1 PAIR	**112-0820**
260	10,5	1 PAIR	**112-0797**
440	10,5	1 PAIR	**112-0809**
600	10,5	1 PAIR	**112-0821**
Heavy weight gloves			
440	7,5	1 PAIR	**112-0810**
600	7,5	1 PAIR	**112-0822**
440	8,5	1 PAIR	**112-0811**
600	8,5	1 PAIR	**112-0823**
440	9,5	1 PAIR	**112-0812**
600	9,5	1 PAIR	**112-0824**
440	10,5	1 PAIR	**112-0813**
600	10,5	1 PAIR	**112-0825**

Chemical resistant gloves, Suregrip G04Y
Marigold

Comfortable and sensitive natural rubber latex glove with high resistance to water based chemicals. Ideal for industrial and chemical cleaning in pre and post-production areas.

- Raised pattern for excellent wet grip
- Beaded cuff for tear resistance and easy donning
- Longer gauntlet style cuff for extra protection

Length: 320 mm

Thickness: 1,5 mm (double wall)

Colour: Yellow

EN 374 (AKL), EN 388 (3110), AQL <0,65
Food contact approved

Size	Pk	Cat. No.
7,5	12 PAIR	**112-5001**
8,5	12 PAIR	**112-5000**
9,5	12 PAIR	**112-5006**
10,5	12 PAIR	**112-5007**

Chemical resistant gloves, North Butyl™
North by Honeywell

These butyl gloves exhibit high permeation resistance to gas or water vapours. Ideal for use with ketones and esters.

- Flexible and sensitive, even at lower temperatures
- Curved fingers and hand specific design provide a comfortable fit
- Rolled cuffs for easy donning and removal
- Smooth surface

Length: 280 mm

Thickness: 0,33 mm

Colour: Black

EN 388 (2000), EN 374 (BCI); Cat. III

Size	Pk	Cat. No.
8	1 PAIR	**112-2542**
9	1 PAIR	**112-2543**

Chemical resistant gloves, Best® Butyl 878
Best

Butyl rubber gloves provide superior resistance to highly corrosive acids and are excellent for handling ketones and esters. Synthetic rubber also provides the highest permeation resistance to gases and water vapours, but does not offer the physical strength of natural rubber.

- Unlined, with smooth finish and rolled cuffs
- Lightweight and flexible

Length: 355 mm

Thickness: 0,76 mm

Colour: Black

EN 388 (1121), EN 374 (BIK); Cat. III

Size	Pk	Cat. No.
8	1 PAIR	**112-3266**
9	1 PAIR	**112-3267**
10	1 PAIR	**112-3268**
11	1 PAIR	**112-3154**

Chemical resistant gloves, Best® Viton II
Best

These gloves with rolled cuffs and smooth finish are made of unsupported Viton and a butyl coating. They protect the hands from a wide array of chemical hazards.

- Impermeable for working in damp or greasy environments, e.g. petrochemical industries
- Thin, light glove that feels like a "second skin"
- Cuff prevents dirt from entering the glove and protects the wrist

Length: 300 mm

Thickness: 0,3 mm

Colour: Black

EN 388 (2000), EN 374 (DFL); Cat. III

Size	Pk	Cat. No.
7	1 PAIR	**112-0175**
8	1 PAIR	**112-0176**
9	1 PAIR	**112-0177**
10	1 PAIR	**112-0178**
11	1 PAIR	**112-0179**

Heat resistant gloves, Crusader Flex® 42-445/42-474
Ansell

These gloves are made from a combination of tough NBR coating and a special loop material, which provides excellent resistance to cuts, snags and abrasions. It is exceptionally durable and flexible, providing excellent grip at the same time. Machine washable.

- Designed for intermittent handling of hot objects up to 180 °C
- Very flexible coating and lining for reduced hand fatigue
- Absorbent non woven lining for increased breathability
- No seams in the working area

Length: 240 or 330 mm

Colour: Grey

EN 388 (2241), EN 407 (X2XXXX), Cat. III

Type	Length (mm)	Size	Pk	Cat. No.
42-445	240	9	1 PAIR	**112-0289**
42-445	240	10	1 PAIR	**112-0288**
42-474	330	9	1 PAIR	**112-3514**
42-474	330	10	1 PAIR	**112-3513**

Heat resistant gloves, Mercury® 43-113
Ansell

The ambidextrous Kevlar® gloves are suitable for use for the most exacting hot applications. They also provide fantastic resistance to cuts, tears and abrasion.

- Pure cotton liners, comfortable and cool to wear
- No seams where sparks or metal splashes might lodge
- May be repeatedly laundered and re-used with no loss of performance
- Designed for intermittent dry heat contact up to 350 °C

Colour: Yellow

Length: 380 mm

EN 388 (254X), EN 407 (43421X); Cat. III

Size	Pk	Cat. No.
10	1 PAIR	**112-0290**
11	1 PAIR	**112-0449**

Heat resistant gloves, Aratherma Heavy
Honeywell Safety Products

Gloves made from Nomex®. Ideal when working with hot objects (contact with foodstuffs).

- Seamless, lined with a pure cotton knitted glove
- Very soft and comfortable, low lint
- Ambidextrous
- Heat resistant up to 250 °C

Length: 270 mm

Gauge: 5

Colour: White

EN 388 (144X), EN 407 (43XXXX), Cat. II

Size	Pk	Cat. No.
7	1 PAIR	**112-4063**
9	1 PAIR	**112-4064**

Heat resistant gloves, Aratherma Comfort Terry

Honeywell Safety Products

Gloves made from boucle Kevlar® (750 g/m²) glued with cotton Molton (220 g/m²). For handling hot and sharp-edged items.

- American cut
- Reinforced thumb
- Cuff is 100 mm long and stitched to the base and outside edge
- Resistant up to 250 - 350 °C

Length: 310 mm

Colour: Yellow/white

EN 388 (3443), EN 407 (4342XX), Cat. II

Size	Pk	Cat. No.
U*	1 PAIR	**112-0476**

*One size fits all

Hand protectors, Hot Hand

These gripping mittens made from flexible silicone elastomer can be used to handle hot or cold objects and to carry them short distances. The shape only protects the inside of the hand ensuring good sensitivity. The thumb must be inserted in one of the 2 openings, the other fingers in the remaining opening for a good grasping effect.

- Temperature range: –60 to +230 °C
- Clean with soapy water and store at room temperature away from damp and light
- Assist with grip and ensure good contact

Colour: White, red

EN 407, EN 511; Cat. II

Colour	L×W (mm)	Pk	Cat. No.
White	170×86	1	**112-1983**
White	137×30	1	**112-1984**
Red	185×100	1	**112-1981**

Cold resistant gloves, Cryogenic
Honeywell Safety Products

These gunn-cut gloves are made of silicone coated water-repellent cowhide grain leather. Ideal for handling liquid nitrogen.

- Fully lined with two aluminium/fleece layers for extra warmth
- Reinforcement between thumb and index
- Velcro® adjustment strap on side of the palm
- Long (200 mm) split leather cuff provides splash protection
- Protection against small drops of liquid gas up to –170 °C

Length: 400 mm

Thickness: 1,1/1,3 mm

Colour: Beige

EN 388 (3222), EN 511 (220); Cat. II

Size	Pk	Cat. No.
9	1 PAIR	**112-4030**
10	1 PAIR	**112-4031**
11	1 PAIR	**112-4032**

Cold resistant gloves, Cryo-Gloves®
Tempshield

These hand-specific gloves protect hands and arms against the hazards of working in and with ultra-cold temperatures down to –160 °C. Lightweight, breathable, and comfortable, they provide protection from liquid splashes and cryogenic temperatures but are not safe for immersion in cryogenic liquids.

- Provide warmth while retaining flexibility even after prolonged exposure to cryogenic atmospheres
- Cryo-Gloves® allow sufficient dexterity to handle small objects and controls

Cryo-Gloves® are offered in three configurations:

Water resistant: Outer shells are made of a two-layer composite (a nylon taslan, treated with a water-repellent finish) with a waterproof membrane inside.

Waterproof: Uses the same outer shell but with an additional seamless waterproof inner glove.

Industrial: A rugged, abrasion resistant outer shell and a thin, seamless 100% waterproof liner provide extra protection from cryogenic splashes and an excellent grip for heavy-duty applications.

EN 388 (1323), EN 511 (32X), Cat. III

Type	Colour	Length (mm)	Size	Pk	Cat. No.
Water resistant					
Wrist	Blue	290 - 325	S	1 PAIR	**112-2722**
Wrist	Blue	290 - 325	M	1 PAIR	**112-2720**
Wrist	Blue	290 - 325	L	1 PAIR	**112-2718**
Wrist	Blue	290 - 325	XL	1 PAIR	**112-9002**
Mid-arm	Blue	345 - 390	S	1 PAIR	**112-2709**
Mid-arm	Blue	345 - 390	M	1 PAIR	**112-2707**
Mid-arm	Blue	345 - 390	L	1 PAIR	**112-0343**
Mid-arm	Blue	345 - 390	XL	1 PAIR	**112-2710**
Elbow	Blue	440 - 485	S	1 PAIR	**112-0528**
Elbow	Blue	440 - 485	M	1 PAIR	**112-2702**
Elbow	Blue	440 - 485	L	1 PAIR	**112-2700**
Elbow	Blue	440 - 485	XL	1 PAIR	**112-2704**
Shoulder	Blue	625 - 685	S	1 PAIR	**112-0530**
Shoulder	Blue	625 - 685	M	1 PAIR	**112-2714**
Shoulder	Blue	625 - 685	L	1 PAIR	**112-2712**
Shoulder	Blue	625 - 685	XL	1 PAIR	**112-2716**
Waterproof					
Wrist	Blue	290 - 325	S	1 PAIR	**112-2723**
Wrist	Blue	290 - 325	M	1 PAIR	**112-2721**
Wrist	Blue	290 - 325	L	1 PAIR	**112-2719**
Wrist	Blue	290 - 325	XL	1 PAIR	**112-2724**
Mid-arm	Blue	345 - 390	S	1 PAIR	**112-9001**
Mid-arm	Blue	345 - 390	M	1 PAIR	**112-2708**
Mid-arm	Blue	345 - 390	L	1 PAIR	**112-2706**
Mid-arm	Blue	345 - 390	XL	1 PAIR	**112-2711**
Elbow	Blue	440 - 485	S	1 PAIR	**112-0529**
Elbow	Blue	440 - 485	M	1 PAIR	**112-2703**

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Type	Colour	Length (mm)	Size	Pk	Cat. No.
Waterproof					
Elbow	Blue	440 - 485	L	1 PAIR	**112-2701**
Elbow	Blue	440 - 485	XL	1 PAIR	**112-9000**
Shoulder	Blue	625 - 685	S	1 PAIR	**112-0531**
Shoulder	Blue	625 - 685	M	1 PAIR	**112-2715**
Shoulder	Blue	625 - 685	L	1 PAIR	**112-2713**
Shoulder	Blue	625 - 685	XL	1 PAIR	**112-2717**
Industrial					
Wrist	Dark Blue	300 - 325	M	1 PAIR	**112-1953**
Wrist	Dark Blue	300 - 325	L	1 PAIR	**112-1950**
Wrist	Dark Blue	300 - 325	XL	1 PAIR	**112-1954**
Mid-arm	Dark Blue	350 - 387	M	1 PAIR	**112-1948**
Mid-arm	Dark Blue	350 - 387	L	1 PAIR	**112-1947**
Mid-arm	Dark Blue	350 - 387	XL	1 PAIR	**112-1949**
Gauntlet	Dark Blue	448 - 470	M	1 PAIR	**112-1930**
Gauntlet	Dark Blue	448 - 470	L	1 PAIR	**112-1921**
Gauntlet	Dark Blue	448 - 470	XL	1 PAIR	**112-1944**

Cut resistant gloves, HyFlex® 11-518
Ansell

This knitted Spandex/nylon/Dyneema® glove with thin PU palm coating provides a high level of dexterity and tactility for applications with cut risks. Ideal for final assembly applications, the handling of small or ultra-fine sharp parts, machining, packaging, stamping and wire assembly.

- Ultralight fabric and tailored fit
- Knitwrist cuff style
- Soft seamless liner allows the hands to breath and offers enhanced flexibility and fingertip sensitivity

Colour: White/blue

Length: 210 - 265 mm

Gauge: 18

EN 388 (3331); Cat. II

Length (mm)	Size	Pk	Cat. No.
210 - 265	6	12 PAIR	**112-2725**
210 - 265	7	12 PAIR	**112-2726**
210 - 265	8	12 PAIR	**112-2727**
210 - 265	9	12 PAIR	**112-2728**
210 - 265	10	12 PAIR	**112-2729**
210 - 265	11	12 PAIR	**112-2730**

Cut resistant gloves, HyFlex® 11-630/11-638
Ansell

The gloves are designed for use in dry, as well as slightly oily environments. The nylon/Lycra®/Kevlar®/cotton liners have a yarn structure that contains an optimal rate of HPPE, providing high levels of cut resistance. Ideal for plastics injection and moulding, assembling metal parts and components and the handling of sharp or irregular-edged metal parts.

- Palm coated with polyurethane for additional protection and abrasion resistance
- Specific formulation of the polyurethane dipping provides a secure grip on dry or slightly oily pieces
- Lycra® liner and PU coating provide excellent flexibility and fit
- Elasticated cuffs

Length: 215 - 275 mm or 290 - 340 mm

Colour: Grey

EN 388 (4443), Cat. II

Type	Length (mm)	Size	Pk	Cat. No.
11-630	215 - 275	6	12 PAIR	**112-2922**
11-630	215 - 275	7	12 PAIR	**112-2923**
11-630	215 - 275	8	12 PAIR	**112-2924**
11-630	215 - 275	9	12 PAIR	**112-2925**
11-630	215 - 275	10	12 PAIR	**112-2920**
11-630	215 - 275	11	12 PAIR	**112-2921**
11-638	290 - 340	6	1 PAIR	**112-3150**
11-638	290 - 340	7	1 PAIR	**112-3151**
11-638	290 - 340	8	1 PAIR	**112-3152**
11-638	290 - 340	9	1 PAIR	**112-3153**
11-638	290 - 340	10	1 PAIR	**112-3148**
11-638	290 - 340	11	1 PAIR	**112-3149**

Knitted gloves, HyFlex® Lite and HyFlex® Foam, 11-600, 11-605 and 11-800

Ansell

The stretch knitted nylon liner, together with the formulation of the polyurethane coating, offers flexibility and elasticity. These industrial gloves are ideal for applications where precision and/or clean handling are required and for light and delicate applications, such as assembly of small pieces or for use in cleanrooms.

- Optimal tactility and dexterity: Ultra-thin with superior tear resistance
- Polyurethane coating gives a good grip in dry conditions
- Taint and lint-free

Colour: White or grey

EN 388, Cat. II

Type	Length (mm)	Size	Pk	Cat. No.
HyFlex® Lite: Palm PU coated, white; EN 388 (3131)				
11-600	210 - 260	6	12 PAIR	**112-0196**
11-600	210 - 260	7	12 PAIR	**112-0197**
11-600	210 - 260	8	12 PAIR	**112-0198**
11-600	210 - 260	9	12 PAIR	**112-0199**
11-600	210 - 260	10	12 PAIR	**112-0195**
HyFlex® Lite: Finger PU coated, white; EN 388 (003X)				
11-605	195 - 235	6	12 PAIR	**112-0201**
11-605	195 - 235	7	12 PAIR	**112-0202**
11-605	195 - 235	8	12 PAIR	**112-0203**
11-605	195 - 235	9	12 PAIR	**112-0204**
11-605	195 - 235	10	12 PAIR	**112-0200**
HyFlex® Foam: Nitrile foam coating on palm, seamless knitted, grey; EN 388 (3131)				
11-800	200 - 265	6	12 PAIR	**112-0206**
11-800	200 - 265	7	12 PAIR	**112-0207**
11-800	200 - 265	8	12 PAIR	**112-0208**
11-800	200 - 265	9	12 PAIR	**112-0209**
11-800	200 - 265	10	12 PAIR	**112-0205**

Cut resistant gloves, VersaTouch®

Ansell

These gloves are knitted from a combination of PP, glass fibres and Dyneema® fibres. They are suitable for applications involving direct contact with food, e.g. boning, carving, fish processing, meals preparation, as well as fruit and vegetable processing.

- Excellent cut resistance
- Machine washable up to 90 °C
- Long lasting with improved wear resistance
- Improved heat insulation for greater comfort in cold work areas

Length: 250 - 330 mm

Colour: Light blue

EN 388, Cat. II
Food contact approved

Size	Pk	Cat. No.
Gauge: 13; EN 388 (254X)		
6	6	**112-0233**
7	6	**112-0234**
8	6	**112-0235**
9	6	**112-0236**
10	6	**112-0232**

Cut resistant gloves, proFood® Safe-Knit® Sleeves
Ansell

These gloves are manuafactured from a combination of Dyneema® with other innovative fibres. They are ideal for food processing applications, such as boning, carving, in-store preparation of vegetables, fish processing and filleting.

- Washable up to 90 °C
- Suitable for contact with all foodstuffs
- High resistance to abrasion, improved thermal insulation
- Universal size fits all

Length: 250/500 mm

Colour: Blue

EN 388 (354X), Cat. II
Compliant with EU food legislation

Length (mm)	Pk	Cat. No.
250	1	**112-2936**
500	1	**112-2937**

Cut resistant gloves, Krytech 586
Mapa Professionnel

This high performance glove made of PU with a seamless textile support from HDPE fibres provides protection for intricate handling in reasonably clean environments. It is particularly suitable when handling sharp objects and large metal plates, for example in the automotive or mechanical industry.

- HDPE fibres ensure excellent cut resistance (level 5) with reduced thickness for good dexterity
- Ventilated back for breathability
- Visible indicator in blue textile to easily identify the cut-performance level in the workplace

Length: 240 - 300 mm (depending on size)

Colour: Blue/grey

EN 388 (4543); Cat. II

Size	Pk	Cat. No.
6	1 PAIR	**112-2815**
7	1 PAIR	**112-2816**
8	1 PAIR	**112-2817**
9	1 PAIR	**112-2818**
10	1 PAIR	**112-2813**
11	1 PAIR	**112-2814**

Knitted gloves, Stringknits™ 76-100
Ansell

Ambidextrous, light and stretchy gloves made from cotton.

- Can be worn on their own or as liners
- No seams to chafe or split
- Stringknit construction allows good airflow to the hand
- Washable at 40 °C; will not shrink, stiffen or lose their shape

Length: 220 mm

Colour: Natural

EN 388 (002X), Cat. II

Size	Pk	Cat. No.
7	12 PAIR	**112-3598**
9	12 PAIR	**112-3702**

Knitted gloves, Tiger Paw® 76-301
Ansell

Made from knitted polyester coated with cotton, Tiger Paw® offers many of the features and benefits of Tri Grip™ at a more economical price. This heavier construction ensures a more robust glove for heavier applications. Machine washable at 40 °C.

- Seamless construction avoids irritation to fingers caused by seams
- Elastic wrist ensures glove remains in constant fixed position
- Knitted construction allows the air to circulate thus reducing perspiration
- PVC polka dots provide a secure grip without loss of dexterity

Length: 230 - 270 mm

Colour: White with blue dots

EN 388 (214X), Cat. II

Size	Pk	Cat. No.
7	12 PAIR	**112-3607**
8	12 PAIR	**112-0299**
9	12 PAIR	**112-0300**
10	12 PAIR	**112-3606**

Knitted gloves, HyFlex® Ultra-Lite, 11-618/11-619

Ansell

Seamless knitted gloves made from stretch nylon with PU palm coating. An extremely lightweight glove for optimum and precise sensitivity.

- Very lightweight and thin
- Provide good grip in dry and slightly oily working conditions
- Ideal for applications in which there is risk of abrasion, blistering and minor injury if using cotton gloves or no gloves at all
- Dark liners are well-suited for environments that present a certain degree of dirt, white liners are ideal for clean environments / dirt sensitive applications

Length: 195 - 245 mm

Thickness: 0,80 mm

11-618: EN 388 (3131), Cat. II

11-619: EN 388 (2121), Cat. II

Type	Colour	Size	Pk	Cat. No.
11-618	Black/Blue	6	12 PAIR	**112-3807**
11-618	Black/Blue	7	12 PAIR	**112-3808**
11-618	Black/Blue	8	12 PAIR	**112-3809**
11-618	Black/Blue	9	12 PAIR	**112-3810**
11-618	Black/Blue	10	12 PAIR	**112-3811**
11-618	Black/Blue	11	12 PAIR	**112-3812**
11-619	White	6	12 PAIR	**112-3185**
11-619	White	7	12 PAIR	**112-3186**
11-619	White	8	12 PAIR	**112-3187**
11-619	White	9	12 PAIR	**112-3188**
11-619	White	10	12 PAIR	**112-3183**
11-619	White	11	12 PAIR	**112-3184**

Glove liners

These durable and reusable glove liners are made of 100% nylon. They are compatible with stringent cleanroom requirements and can be used effectively as a gowning glove. Low-linting.

- Reduces perspiration and wicks moisture during extended use
- Prevents skin irritation without diminishing tactile sensitivity
- Limits wear and tear to extend life of gloves and conserves resources
- Pre-laundered, will not shrink during washing

Colour: White

Basic weight: 21,5 g/pair ±10%

Thickness: 2 mm ±10%

Surface resistivity: 1 × 109 ±10% ohms/m^2

Description	Size	Pk	Cat. No.
Full-finger liners	S	300 PAIR	**112-1900**
Full-finger liners	M	300 PAIR	**112-1899**
Full-finger liners	L	300 PAIR	**112-1898**
Full-finger liners	XL	300 PAIR	**112-1904**
Half-finger liners	S	300 PAIR	**112-1915**
Half-finger liners	M	300 PAIR	**112-1910**
Half-finger liners	L	300 PAIR	**112-1905**
Half-finger liners	XL	300 PAIR	**112-1917**

Glove liners, BCR™
Berkshire

Continuous-filament knitted, these ambidextrous polyester gloves provide protection and comfort during extended wear. Ideal under latex, PVC, or other outer gloves to absorb perspiration from hands during periods of extended wear.

- Seamless construction prevents unravelling and release of unwanted particles into critical environments
- Launderable for repeated use
- Comfortable half-finger design provides greater dexterity than a full-finger glove liner and has reduced courses in the finger and cuff
- Full-finger style provides complete protection from irritation caused by latex and PVC gloves

Colour: White

Description	Size	Pk	Cat. No.
Half-finger liners	M	200 PAIR	**115-0537**
Half-finger liners	L	10 PAIR	**112-0616**
Full-finger liners	M	10 PAIR	**112-0532**
Full-finger liners	L	10 PAIR	**112-3344**

Glove liners
Wells Lamont

Ambidextrous liners are constructed of high-stretch nylon for maximum comfort and superior tactile sensitivity. They provide a physical barrier to protect hands from the irritating effects of over exposure to latex, vinyl and nitrile thin film gloves.

- Can also be used as gowning or inspection gloves
- Available in full-finger and half-finger styles
- Launderable

Length: 178 mm (half-finger liners); 216 mm (full-finger liners)

Colour: White

Packaging: Packaged in poly bags of 12 pairs.

Description	Size	Pk	Cat. No.
Full-finger liners	S	12 PAIR	**112-1189**
Full-finger liners	M	12 PAIR	**112-1188**
Full-finger liners	L	12 PAIR	**112-1187**
Full-finger liners	XL	12 PAIR	**112-1190**
Half-finger liners	S	12 PAIR	**112-1192**
Half-finger liners	L	12 PAIR	**112-1191**

Cut resistant glove liners, Whizard™
Wells Lamont

Suitable for use in Class 100, ISO 5 or M3.5 conditions.

Ambidextrous glove made from polyester fibre and stainless steel wire to provide high cut resistance. Designed to be a truly lightweight alternative to steel mesh gloves.

- Ergonomically designed to offer comfort without sacrificing cut resistance
- Can also be used as an outer glove in ISO Class 5 conditions
- Reusable

Length: 216 mm

Colour: Black (cuff colour denotes glove size)

Description	Size	Pk	Cat. No.
Yellow cuff	S	12 PAIR	**112-1197**
Blue cuff	M	12 PAIR	**112-1196**
White cuff	L	12 PAIR	**112-1195**

Gauntlets for glove boxes
North by Honeywell

Hypalon®

Hypalon® gloves offer outstanding abrasion and chemical resistance, including resistance to ozone and oxidising chemicals.

- Naturally soft for greater working comfort

Lead-loaded Hypalon® gloves contain 0,1 mm lead equivalent for attenuation of soft gamma radiation. Gloves have a Hypalon® inner and outer layer.

- High resistance to abrasion, ozone, and oxidising chemicals

Hypalon®/Neoprene blend gloves combine the flexibility and dexterity of neoprene with the ozone and chemical resistance of Hypalon®.

- Extra long life and positive protection under unusually severe conditions
- Excellent resistance to ozone and oxidising chemicals
- White surface gives good visibility and will not hide contamination

Colour: White

All gloves have a standard length of 813 mm and fit the standard 203 mm diameter port.

Type	Thickness (mm)	Size	Pk	Cat. No.
Hypalon®				
Hand specific	0,38	8,5	1 PAIR	**112-2526**
Hand specific	0,38	10,5	1 PAIR	**112-2525**
Hand specific	0,76	8,5	1 PAIR	**112-2531**
Hand specific	0,76	9,75	1 PAIR	**112-2532**
Hand specific	0,76	10,5	1 PAIR	**112-2530**
Ambidextrous	0,38	9,75	1 PAIR	**112-2529**
Ambidextrous	0,76	9,75	1 PAIR	**112-2534**
Ambidextrous	0,38	10,5	1 PAIR	**112-2528**
Ambidextrous	0,76	10,5	1 PAIR	**112-2533**
Hypalon® Lead-loaded				
Hand specific	0,76	8,5	1 PAIR	**112-2535**
Hand specific	0,76	9,75	1 PAIR	**112-2536**
Hypalon®/Neoprene				
Hand specific	0,76	8,5	1 PAIR	**112-2522**
Hand specific	0,76	9,75	1 PAIR	**112-2523**
Hand specific	0,76	10,5	1 PAIR	**112-2521**
Ambidextrous	0,76	9,75	1 PAIR	**112-2524**

Gauntlets, dry box
Piercan

Natural rubber (latex)

Ambidextrous gauntlets manufactured from natural rubber that provides good mechanical properties such as tensile strength, perforation and abrasion resistance.

- Good flexibility and low modulus
- Low static charge
- Very high resistance to cold conditions (till –40 °C)
- Combination of flexibility and mechanical strength offers protection together with high dexterity for the user

0,4 mm thickness: EN 388 (X100), EN 374-1, EN 421; Cat. III
0,6 mm thickness: EN 388 (X111), EN 374-1, EN 421; Cat. III

Length (mm)	Ø (mm)	Thickness (mm)	Size	Pk	Cat. No.
Ø 156 mm, conical shape					
700	156	0,6	7	1 PAIR	**112-5300**
700	156	0,6	8	1 PAIR	**112-5301**
700	156	0,6	9	1 PAIR	**112-5302**
750	156	0,6	10	1 PAIR	**112-5306**
Ø 186 mm, conical shape					
800	186	0,6	7	1 PAIR	**112-5319**
800	186	0,6	8	1 PAIR	**112-5320**
800	186	0,6	9	1 PAIR	**112-5321**
Ø 220 mm, conical shape					
700	220	0,6	6	1 PAIR	**112-5312**
700	220	0,6	7	1 PAIR	**112-5313**
700	220	0,6	8	1 PAIR	**112-5314**
700	220	0,6	9	1 PAIR	**112-5315**

European standards for disposable chemical protective clothing

CE marking of protective clothing

Protective clothing belongs to the group of personal protective equipment (PPE), and therefore has to comply with the European Directive 89/686/EC which determines the health and safety requirements. Represented symbolically by the CE mark it establishes a system for classifying personal protective equipment based on the level of protection provided.

3 categories

Category I - Minor risk: Minimal risk

Category II - Intermediate risk: Medium risk

Category III - Major risk: Serious or mortal danger

Standards for disposable chemical protective clothing, within Category III

In this category there are 6 levels of protection (types).
Each type represents the ability of the garment to protect against a certain exposure of products (gas, liquid or dust), and defines the minimum requirements of protection. Garment choice is based on the work to be carried out.

Category III	Major risk: Serious or mortal danger		
TYPE 1	Gastight (gases, fumes, liquids and particle aerosols)		EN 943-1
TYPE 2	Non gastight (limited impermeability to gases)		EN 943-2
TYPE 3	Liquid tight (liquid jet under pressure up to 1,5 bar)		EN 14605
TYPE 4	Liquid aerosol tight (liquids atomised at a rate of 4,5 l/min under 3 bar pressure)		EN 14605
TYPE 5	Solid airborne particles protection (between 1 and 10 µm)		EN ISO 13982-1
TYPE 6	Limited protection against liquid mist		EN 13034

Other types of protection

Protection against particulate radioactive contamination (no radioactive radiation protection!)		EN 1073-2
Biological protection (bacteria, viruses and other microorganisms)		EN 14126
Electrostatic discharge		EN 1149-1

HACCP

HACCP (Hazard Analysis and Critical Control Point) is a system that helps food business operators look at how they handle food and introduces procedures to make sure the food produced is safe to eat.
Garment design: Work apparel must include various garments specifically designed for food-processing environments, all without buttons or pockets that could add potential for contamination.

OEKO-TEX® Standard 100

The OEKO-TEX® Standard 100 is an independent testing and certification system for textile raw materials, intermediate and end products at all stages of production. Examples for items eligible for certification: Raw and dyed/finished yarns, raw and dyed/finished fabrics and knits, ready-made articles (all types of clothing).

Particle shedding (Helmke Drum Test) - IEST-RP-CC003.3

Measures particle shedding from a garment or accessory being tumbled in a small drum. The test is the acceptable particle emission rates (particles/min) for each garment. Results are reported by category as shown below (Category I garments have the lowest particle shed and are the cleanest).

	Emission rate for particles ≥0,3 µm	Emission rate for particles ≥0,5 µm
Category I	<2000	<1200
Category II	2000 - 20 000	1200 - 12 000
Category III	20 000 - 200 000	12 000 - 120 000

The employer's responsibilities

The employer must evaluate the requirement for protective clothing, depending on the activities to be carried out, and supply the appropriate equipment to employees free of charge. The employer must also provide its employees with training on the types of protective clothing to be worn under the given circumstances.

The clothing selected must:

- Be adapted to the nature of the risk
- Fit the wearer
- Be comfortable to wear
- Bear the CE marking if the equipment is intended to protect against mortal danger, as is the case for Category III

Sizing guide

Women												
		XS - S	S	M	M	L	L - XL	XL	XXL	3XL	4XL	5XL
UK		6	8	10	12	14	16	18	20	22	24	26
EU/France		34	36	38	40	42	44	46	48	50	52	54
Germany		32	34	36	38	40	42	44	46	48	50	52
Italy		38	40	42	44	46	48	50	52	54	56	58
Men												
	XXS	XS	S	S	M	M	L	L	XL	XXL	3XL	4XL
UK	30	32	34	36	38	40	42	44	46	48	50	52
EU/France	40	42	44	46	48	50	52	54	56	58	60	62

Ladies' coats, cotton or polyester/cotton

These reusable coats for women are either made of 100% cotton or 65% polyester/35% cotton. Both fabrics are robust, tear resistant and durable. The coats are available with a tailored or stand-up collar.

- With concealed press stud fastening and two-step adjustable cuffs
- Two side pockets and one breast pocket
- Fitted style, with back belt and side slit
- Washable at 95 °C, suitable for industrial laundering

Density: 215 g/m²

Colour: White

Approved in accordance with Oeko-Tex® Standard 100.

Type	Clothing size	Pk	Cat. No.
Cotton			
With tailored collar	8 (ladies)	1	**113-1682**
With tailored collar	10 (ladies)	1	**113-1683**
With tailored collar	12 (ladies)	1	**113-1684**
With tailored collar	14 (ladies)	1	**113-1685**
With tailored collar	16 (ladies)	1	**113-1686**
With tailored collar	18 (ladies)	1	**113-1687**
With tailored collar	20 (ladies)	1	**113-1688**
With tailored collar	22 (ladies)	1	**113-1689**
With tailored collar	24 (ladies)	1	**113-1690**
With tailored collar	26 (ladies)	1	**113-1691**
With stand-up collar	6 (ladies)	1	**113-1692**
With stand-up collar	10 (ladies)	1	**113-1693**
With stand-up collar	12 (ladies)	1	**113-1694**
With stand-up collar	14 (ladies)	1	**113-1695**
With stand-up collar	16 (ladies)	1	**113-1696**
With stand-up collar	18 (ladies)	1	**113-1697**
With stand-up collar	20 (ladies)	1	**113-1698**
With stand-up collar	22 (ladies)	1	**113-1699**
With stand-up collar	24 (ladies)	1	**113-1701**
With stand-up collar	26 (ladies)	1	**113-1702**
Polyester/cotton			
With tailored collar	8 (ladies)	1	**113-1703**
With tailored collar	10 (ladies)	1	**113-1704**
With tailored collar	12 (ladies)	1	**113-1705**
With tailored collar	14 (ladies)	1	**113-1706**
With tailored collar	16 (ladies)	1	**113-1707**
With tailored collar	18 (ladies)	1	**113-1708**
With tailored collar	20 (ladies)	1	**113-1709**
With tailored collar	22 (ladies)	1	**113-1710**
With tailored collar	24 (ladies)	1	**113-1711**
With tailored collar	26 (ladies)	1	**113-1712**
With stand-up collar	8 (ladies)	1	**113-1713**
With stand-up collar	10 (ladies)	1	**113-1714**
With stand-up collar	12 (ladies)	1	**113-1715**
With stand-up collar	14 (ladies)	1	**113-1716**
With stand-up collar	16 (ladies)	1	**113-1717**
With stand-up collar	18 (ladies)	1	**113-1718**
With stand-up collar	20 (ladies)	1	**113-1719**
With stand-up collar	22 (ladies)	1	**113-1720**
With stand-up collar	24 (ladies)	1	**113-1721**
With stand-up collar	26 (ladies)	1	**113-1722**

Men's coats, cotton or polyester/cotton

These reusable coats for men are either made of 100% cotton or 65% polyester/35% cotton. Both fabrics are robust, tear resistant and durable. The coats are available with a tailored or stand-up collar.

- With concealed press stud fastening and two-step adjustable cuffs
- Two side pockets and one breast pocket
- With side slit for improved wearing comfort
- Washable at 95 °C, suitable for industrial laundering

Density: 215 g/m²

Colour: White

Approved in accordance with Oeko-Tex® Standard 100.

Type	Clothing size	Pk	Cat. No.
Cotton			
With tailored collar	32 (men)	1	**113-1723**
With tailored collar	34 (men)	1	**113-1724**
With tailored collar	36 (men)	1	**113-1725**
With tailored collar	38 (men)	1	**113-1726**
With tailored collar	40 (men)	1	**113-1727**
With tailored collar	42 (men)	1	**113-1728**
With tailored collar	44 (men)	1	**113-1729**
With tailored collar	46 (men)	1	**113-1730**
With tailored collar	48 (men)	1	**113-1731**
With tailored collar	50 (men)	1	**113-1732**
With tailored collar	52 (men)	1	**113-5988**
With stand-up collar	32 (men)	1	**113-1734**
With stand-up collar	34 (men)	1	**113-1735**
With stand-up collar	36 (men)	1	**113-1736**
With stand-up collar	38 (men)	1	**113-1737**
With stand-up collar	40 (men)	1	**113-1738**
With stand-up collar	42 (men)	1	**113-1739**
With stand-up collar	44 (men)	1	**113-1740**
With stand-up collar	46 (men)	1	**113-1741**
With stand-up collar	48 (men)	1	**113-1742**
With stand-up collar	50 (men)	1	**113-1743**
With stand-up collar	52 (men)	1	**113-5989**
Polyester/cotton			
With tailored collar	32 (men)	1	**113-1745**
With tailored collar	34 (men)	1	**113-1746**
With tailored collar	36 (men)	1	**113-1747**
With tailored collar	38 (men)	1	**113-1748**
With tailored collar	40 (men)	1	**113-1749**
With tailored collar	42 (men)	1	**113-1766**
With tailored collar	44 (men)	1	**113-1767**
With tailored collar	46 (men)	1	**113-1768**
With tailored collar	48 (men)	1	**113-1769**
With tailored collar	50 (men)	1	**113-1770**
With tailored collar	52 (men)	1	**113-5990**
With stand-up collar	32 (men)	1	**113-1772**
With stand-up collar	34 (men)	1	**113-1773**
With stand-up collar	36 (men)	1	**113-1774**
With stand-up collar	38 (men)	1	**113-1775**
With stand-up collar	40 (men)	1	**113-1776**
With stand-up collar	42 (men)	1	**113-1777**
With stand-up collar	44 (men)	1	**113-1778**
With stand-up collar	46 (men)	1	**113-1779**
With stand-up collar	48 (men)	1	**113-1780**
With stand-up collar	50 (men)	1	**113-1781**
With stand-up collar	52 (men)	1	**113-5991**

Tunics with collar, polyester/cotton

These functional tunics with a tailored collar are made of 65% polyester and 35% cotton. They are suitable for use in medical areas, especially in medical care.

- Two side pockets (one with an additional small pocket) and one breast pocket
- Concealed press stud fastening with 5 snap buttons
- With side slits for improved wearing comfort
- Washable at 95 °C, suitable for industrial laundering

Colour: White

Density: 215 g/m²

Approved in accordance with Oeko-Tex® Standard 100.

Type	Clothing size	Pk	Cat. No.
Women's style	6 (ladies)	1	**113-6180**
Women's style	8 (ladies)	1	**113-1846**
Women's style	10 (ladies)	1	**113-1847**
Women's style	12 (ladies)	1	**113-1848**
Women's style	14 (ladies)	1	**113-1849**
Women's style	16 (ladies)	1	**113-1850**
Women's style	18 (ladies)	1	**113-1851**
Women's style	20 (ladies)	1	**113-1852**
Women's style	22 (ladies)	1	**113-1853**
Women's style	24 (ladies)	1	**113-1854**
Women's style	26 (ladies)	1	**113-1855**
Men's style	32 (men)	1	**113-1866**
Men's style	34 (men)	1	**113-1867**
Men's style	36 (men)	1	**113-1868**
Men's style	38 (men)	1	**113-1869**
Men's style	40 (men)	1	**113-1870**
Men's style	42 (men)	1	**113-1871**
Men's style	44 (men)	1	**113-1872**
Men's style	46 (men)	1	**113-1873**
Men's style	48 (men)	1	**113-1874**
Men's style	50 (men)	1	**113-1875**
Men's style	52 (men)	1	**113-5995**

Tunics without collar, for women, polyester/cotton

These ladies' tunics without a collar are made of 65% polyester and 35% cotton. They are suitable for use in medical areas, especially in medical care.

- Two side pockets and one cut breast pocket
- Concealed press stud fastening with 5 snap buttons
- Fitted design thanks to front and back darts
- Washable at 95 °C, suitable for industrial laundering

Colour: White

Density: 215 g/m²

Approved in accordance with Oeko-Tex® Standard 100.

Clothing size	Pk	Cat. No.
8 (ladies)	1	**113-1856**
10 (ladies)	1	**113-1857**
12 (ladies)	1	**113-1858**
14 (ladies)	1	**113-1859**
16 (ladies)	1	**113-1860**
18 (ladies)	1	**113-1861**
20 (ladies)	1	**113-1862**
22 (ladies)	1	**113-1863**
24 (ladies)	1	**113-1864**
26 (ladies)	1	**113-1865**

Trousers for ladies and men, polyester/cotton

These straight trousers are made of 65% polyester and 35% cotton. They are suitable for use in laboratories, hospitals, nursing homes and other medical areas. Ideal in combination with the VWR® tunics.

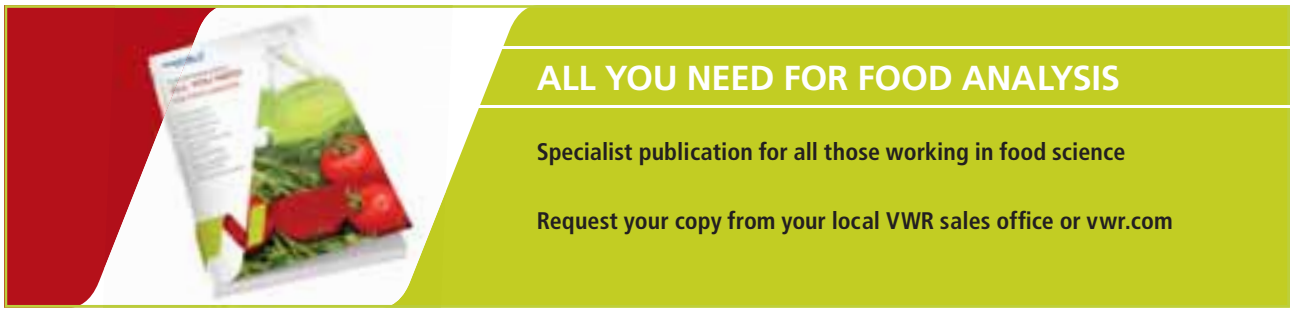
- With two side and two back pockets
- Elasticated waistband with button and zip closure can be manually adjusted for a perfect fit
- Men's trousers also feature belt loops
- Washable at 95 °C, suitable for industrial laundering

Colour: White

Density: 215 g/m²

Approved in accordance with Oeko-Tex® Standard 100.

Type	Clothing size	Pk	Cat. No.
Women's style	6 (ladies)	1	**113-6181**
Women's style	8 (ladies)	1	**113-1877**
Women's style	10 (ladies)	1	**113-1878**
Women's style	12 (ladies)	1	**113-1879**
Women's style	14 (ladies)	1	**113-1880**
Women's style	16 (ladies)	1	**113-1881**
Women's style	18 (ladies)	1	**113-1882**
Women's style	20 (ladies)	1	**113-1883**
Women's style	22 (ladies)	1	**113-1884**
Women's style	24 (ladies)	1	**113-1885**
Women's style	26 (ladies)	1	**113-1886**
Men's style	32 (men)	1	**113-1887**
Men's style	34 (men)	1	**113-1888**
Men's style	36 (men)	1	**113-1889**
Men's style	38 (men)	1	**113-1890**
Men's style	40 (men)	1	**113-1891**
Men's style	42 (men)	1	**113-1892**
Men's style	44 (men)	1	**113-1893**
Men's style	46 (men)	1	**113-1894**
Men's style	48 (men)	1	**113-1895**
Men's style	50 (men)	1	**113-1896**
Men's style	52 (men)	1	**113-5996**



HACCP coats, food contact approved polyester/cotton

These reusable coats comply with HACCP requirements and are therefore suitable for food contact applications. Made of a blend of 65% polyester and 35% cotton, they feature a stand-up collar, two step adjustable cuffs, two inside side pockets and one inside breast pocket.

- Ideal for use in food handling, preparation and food manufacturing industries
- With concealed press stud fastening
- Women's coat has a fitted design
- Washable at 95 °C, suitable for industrial laundering

Density: 215 g/m²

Colour: White

DIN 10524

Type	Clothing size	Pk	Cat. No.
Women's style	8 (ladies)	1	**113-1804**
Women's style	10 (ladies)	1	**113-1805**
Women's style	12 (ladies)	1	**113-1806**
Women's style	14 (ladies)	1	**113-1807**
Women's style	16 (ladies)	1	**113-1808**
Women's style	18 (ladies)	1	**113-1809**
Women's style	20 (ladies)	1	**113-1810**
Women's style	22 (ladies)	1	**113-1811**
Women's style	24 (ladies)	1	**113-1812**
Women's style	26 (ladies)	1	**113-1813**
Men's style	32 (men)	1	**113-1814**
Men's style	34 (men)	1	**113-1815**
Men's style	36 (men)	1	**113-1816**
Men's style	38 (men)	1	**113-1817**
Men's style	40 (men)	1	**113-1818**
Men's style	42 (men)	1	**113-1819**
Men's style	44 (men)	1	**113-1820**
Men's style	46 (men)	1	**113-1821**
Men's style	48 (men)	1	**113-1822**
Men's style	50 (men)	1	**113-1823**

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HACCP trousers, food contact approved, polyester/cotton

These trousers, made of 65% polyester and 35% cotton, are HACCP certified and therefore suitable for use in hygienically sensitive areas in food processing and manufacturing. They are ideal for wearing in combination with the VWR® HACCP coats.

- With two side pockets and two back pockets covered by a flap
- Elasticated waistband with button fastening
- Men's trousers also feature belt loops

Density: 215 g/m²

Colour: White

DIN 10524

Type	Clothing size	Pk	Cat. No.
Women's style	8 (ladies)	1	**113-1938**
Women's style	10 (ladies)	1	**113-1939**
Women's style	12 (ladies)	1	**113-1940**
Women's style	14 (ladies)	1	**113-1941**
Women's style	16 (ladies)	1	**113-1942**
Women's style	18 (ladies)	1	**113-1943**
Women's style	20 (ladies)	1	**113-1944**
Women's style	22 (ladies)	1	**113-1945**
Women's style	24 (ladies)	1	**113-1946**
Women's style	26 (ladies)	1	**113-1947**
Men's style	32 (men)	1	**113-1948**
Men's style	34 (men)	1	**113-1949**
Men's style	36 (men)	1	**113-1950**
Men's style	38 (men)	1	**113-1951**
Men's style	40 (men)	1	**113-1952**
Men's style	42 (men)	1	**113-1953**
Men's style	44 (men)	1	**113-1954**
Men's style	46 (men)	1	**113-1955**
Men's style	48 (men)	1	**113-1956**
Men's style	50 (men)	1	**113-1957**

Laboratory coats, PP/PE, disposable

These disposable lab coats are made of PP (48 g/m²) laminated with PE (24 g/m²). They have two pockets (one breast pocket and one lower pocket).

- Waterproof
- Tapered collar, bound seams
- Press stud fastening and elasticated wrist
- Individually packed (1 piece per poly bag)

Density: 48 g/m²

Length: 1020 mm; 870 mm (sleeves)

Colour: White

Clothing size	Pk	Cat. No.
L	30	**113-0728**
XL	30	**113-0729**
XXL	30	**113-0730**

Laboratory coats, SPP, disposable

This disposable coat is made of non woven laminated SPP fabric.

- Tailored collar
- Press-stud closure and open cuffs
- Two pockets

Weight: 45 g/m²

Colour: White

Clothing size	Pk	Cat. No.
M	50	113-6223
L	50	113-6224
XL	50	113-6225
XXL	50	113-6226
3XL	50	113-6227
4XL	50	113-6228

Laboratory coats, PP, disposable, straight wrist

Disposable laboratory coats made from non woven PP, feature a tapered collar and one breast pocket. Ideal for non critical applications.

- Bound seams
- Straight wrist
- Press stud fastening
- One pocket

Length: 1020 mm; 870 mm (sleeves)

Density: 40 g/m²

Colour: White

Clothing size	Pk	Cat. No.
L	30	113-0737
XL	30	113-0738
XXL	30	113-0739

Laboratory coats, PP, disposable, elasticated wrist

Disposable laboratory coats made from non woven PP feature a tapered collar and two side pockets. Ideal for non critical applications.

- Bound seams
- Elasticated wrist
- Press stud fastening or zip closure (113-0733)
- Two pockets

Length: 1020 mm; 870 mm (sleeves)

Density: 40 g/m²

Colour: White

Description	Clothing size	Pk	Cat. No.
Zip closure, one size	XL	30	113-0733
Press studs	L	30	113-0734
Press studs	XL	30	113-0735
Press studs	XXL	30	113-0736

Visitor smocks, LDPE/LLDPE, disposable

This disposable smock is made from 65% LDPE and 35% LLDPE.

- Highly resistant to chemical corrosion
- Effective against dirt, moisture and oil
- Straight cuffs, press stud fastening and hood

Length: 1250 mm

Weight: 12,5 g

Colour: White

Clothing size	Pk	Cat. No.
U*	100	**113-0727**

*One size fits all

Visitors coats, KLEENGUARD* A10
Kimberly-Clark

Light duty visitors coat, offers CE simple (minimal risk) protection. They are comfortable, hygienic and have elasticated wrists to protect from dust. They are therefore ideal for light duty applications, such as office cleaning, general maintenance and manufacturing applications.

- Breathable PP fabric reduces heat stress
- Comfortable body design allows excellent freedom of movement

Colour: White

Clothing size	Pk	Cat. No.
M	50	**113-8047**
L	50	**113-6090**
XL	50	**113-1733**

Laboratory coats, KIMTECH SCIENCE* A7, disposable
Kimberly-Clark

Disposable laboratory coats made from SMS, a durable fabric with cloth-like feel. Protect against liquid chemicals in the form of light splashes, sprays and aerosols where the chemical is considered low risk.

- Triple over locked seams, remains durable
- Silicone-free and anti-static for critical areas

Colour: White

Type 6 (PB), EN 1149-1

Clothing size	Pk	Cat. No.
S	15	**113-1003**
M	15	**113-1004**
L	15	**113-1005**
XL	15	**113-1006**
XXL	15	**113-1007**

Laboratory coats, KIMTECH SCIENCE* A7 P+
Kimberly-Clark

These coats made from film-coated PP are ideal for laboratory environments with low risk of exposure to chemicals and a basic need for contamination control. They protect the user against low risk liquid chemicals, in the form of light splashes, sprays and aerosols.

- Manufactured from abrasion-resistant film-coated PP, offering excellent particle and bacterial filtration
- Breathable, cloth-like feel, reducing the risk of heat stress
- Suitable for use over long periods, with triple over locked seams increasing strength and providing additional protection
- Silicone and latex-free
- Mandarin collar, elastic cuff, thumb-loops and extra-length arms
- 99% particle and bacterial filtration efficiency
- Individually double bagged for ISO 7, Grade C areas

Colour: White

Type 6 (PB), EN 1149-1; Cat. III

Clothing size	Pk	Cat. No.
S	15	**113-7897**
M	15	**113-7898**
L	15	**113-7899**
XL	15	**113-7900**
XXL	15	**113-7901**

Laboratory coats, polyester/cotton, 2852
Portwest

Standard v-necked coats, made of Fortis Plus fabric consisting of 65% polyester and 35% cotton.

- Concealed stud front
- Back vent
- Breast pocket, two lower patch pockets
- Economical

Colour: White or navy

Weight: 245 g/m^2

Colour	Clothing size	Pk	Cat. No.
White	XS	1	**113-6080**
White	S	1	**113-6078**
White	M	1	**113-6077**
White	L	1	**113-6076**
White	XL	1	**113-6079**
White	XXL	1	**113-6081**
White	3XL	1	**113-6082**
Navy	XS	1	**113-7978**
Navy	S	1	**113-7652**
Navy	M	1	**113-7653**
Navy	L	1	**113-7654**
Navy	XL	1	**113-7655**
Navy	XXL	1	**113-7656**
Navy	3XL	1	**113-7657**

Laboratory coats, 100% cotton, C851
Portwest

V-necked coats made of durable Regal fabric (100% pre-shrunk cotton 3111).

- One chest pocket, two front patch pockets
- Concealed stud front closure
- Back vent
- Durable and comfortable

Colour: White

Weight: 305 g/m²

Clothing size	Pk	Cat. No.
XS	1	**113-7658**
S	1	**113-7659**
M	1	**113-7660**
L	1	**113-7661**
XL	1	**113-7662**
XXL	1	**113-7663**

Laboratory coats, Howie style, polyester/cotton, C865
Portwest

These full-coverage lab coats are made of Kingsmill fabric (65% polyester, 35% cotton) treated with a dirt and water-repellent Texpel finish.

- Mandarin collar, offset front-stud fastening
- One chest pocket, two hip patch pockets
- Knitted cuffs
- Economical

Colour: White

Weight: 245 g/m²

Clothing size	Pk	Cat. No.
XS	1	**113-6087**
S	1	**113-6085**
M	1	**113-6084**
L	1	**113-6083**
XL	1	**113-6086**
XXL	1	**113-6088**
3XL	1	**113-6089**

Laboratory coats, flame retardant, cotton/Proban

These coats are made from a Proban treated cotton drill fabric.

- Material does not ignite when in direct contact with flame, but forms a blackened char

Colour: White

Ordering information: Other sizes are available, please contact your local VWR sales office for further information.

Chest width (cm)	Pk	Cat. No.
92	1	**113-2202**
100	1	**113-2203**
108	1	**113-2204**
116	1	**113-2205**

Cleanroom lab coats, VWR Basic, SPP, disposable

The VWR Basic SPP lab coats are manufactured from a strong, lightweight, and breathable spunbonded polypropylene (SPP) fabric, which protects against dirt, grime, and certain dry particulates in non hazardous environments. This garment is ideal for less critical areas or pre-gowning entry rooms. It is tested and manufactured in an ISO Certified facility and lot controlled and validated through independent lab testing.

- Tapered collar, inset sleeves, snap closure, elastic or knitted cuffs, no pockets or three pockets
- Lightweight and breathable first line barrier protection

Colour: White

Clothing size	Pk	Cat. No.
With elastic cuffs, no pockets		
S	25	**113-1118**
M	25	**113-1119**
L	25	**113-1120**
XL	25	**113-1121**
XXL	25	**113-1122**
With knitted cuffs, three pockets		
S	30	**113-1111**
M	30	**113-1112**
L	30	**113-1113**
XL	30	**113-1114**
XXL	30	**113-1115**

Cleanroom lab coats, VWR Basic, SMS, disposable

The SMS lab coats are manufactured from a latex-free, multilayer spunbonded-meltblown-spunbonded (SMS) fabric that offers high tensile strength while remaining soft, comfortable, and breathable.

- Tapered collar, inset sleeves, snap closure, knitted cuffs, three pockets
- Fluid and particulate barrier
- Light chemical splash resistance

Colour: White or blue

Colour	Clothing size	Pk	Cat. No.
White	S	30	**113-1131**
White	M	30	**113-1132**
White	L	30	**113-1133**
White	XL	30	**113-1134**
White	XXL	30	**113-1135**
Blue	S	30	**113-1125**
Blue	M	30	**113-1126**
Blue	L	30	**113-1127**
Blue	XL	30	**113-1128**
Blue	XXL	30	**113-1129**

Cleanroom lab coats, VWR Advanced, SF, disposable

VWR Advanced SF lab coats are manufactured from spunbonded polypropylene fabric coated with breathable polyethylene film. Tested and manufactured in an ISO Certified facility under stringent process controls. Lot controlled and validated through independent lab testing.

- Tapered collar, inset sleeves, snap closure, elastic cuffs, three pockets
- Durable fabric with good breathability and water transmission rate
- Significant fluid and particle barrier
- Particle shedding: Level II Helmke drum classification
- Soft, cloth-like fabric

Colour: White

Clothing size	Pk	Cat. No.
S	25	**113-1145**
M	25	**113-1146**
L	25	**113-1147**
XL	25	**113-1148**
XXL	25	**113-1149**
3XL	25	**113-1150**

Cleanroom lab coats, VWR Maximum, SF

VWR Maximum SF lab coats are the cleanest and most durable within the entire VWR clothing line. Made from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film, these garments have been designed to optimise barrier protection, cleanliness, and comfort properties. Tested and manufactured in an ISO Certified facility under stringent process controls. Lot controlled and validated through independent lab testing.

- Tapered collar, inset sleeves, snap closure, elastic cuffs, three pockets
- Superior fluid and particulate barrier
- Lowest level of particle shedding: Level I Helmke drum classification
- Light chemical splash resistance
- Improved breathability to ensure user comfort
- Soft, cloth-like fabric with maximum tear strength

Colour: White

Clothing size	Pk	Cat. No.
S	25	**113-1138**
M	25	**113-1139**
L	25	**113-1140**
XL	25	**113-1141**
XXL	25	**113-1142**
3XL	25	**113-1143**
4XL	25	**113-1144**

Frocks, PP, disposable

Frocks made from PP, with tapered collar, and either press stud fastening or zip closure.

- No pockets
- Bound seams and elasticated wrists

Length for size XL: 1100 mm; 920 mm (sleeves)

Colour: White or blue

Density: 40 g/m^2

Colour	Clothing size	Pk	Cat. No.
With press stud fastening			
Blue	L	30	**113-1455**
Blue	XL	30	**113-1456**
White	XL	30	**113-0731**
With zip closure			
White	XL	30	**113-0732**
White	XXL	30	**113-1454**

Cleanroom frocks, VWR Basic, SPP

The VWR Basic SPP frocks are manufactured from a strong, lightweight, and breathable spunbonded polypropylene (SPP) fabric, which protects against dirt, grime, and certain dry particulates in non hazardous environments. This garment is ideal for less critical areas or pre-gowning entry rooms. It is tested and manufactured in an ISO Certified facility and lot controlled and validated through independent lab testing.

- Snap collar, raglan sleeves, snap closure, elasticated cuffs, no pockets
- Lightweight and breathable first line barrier protection

Colour: White

Clothing size	Pk	Cat. No.
M	30	**113-1151**
L	30	**113-1152**
XL	30	**113-1153**
XXL	30	**113-1154**
3XL	30	**113-1155**

Cleanroom frocks, VWR Basic, SMS

These SMS frocks are manufactured from a latex-free, multilayer spunbonded-meltblown-spunbonded (SMS) fabric that offers high tensile strength while remaining soft, comfortable, and breathable.

- Snap collar, raglan sleeves, snap closure, knitted cuffs
- Fluid and particulate barrier
- Light chemical splash resistance

Colour: White or blue

Colour	Clothing size	Pk	Cat. No.
White	S	30	**113-1156**
White	M	30	**113-1157**
White	L	30	**113-1158**
White	XL	30	**113-1159**
White	XXL	30	**113-1160**
Blue	M	30	**113-1162**
Blue	L	30	**113-1174**
Blue	XL	30	**113-1175**
Blue	XXL	30	**113-1176**

Cleanroom frocks, VWR Advanced, SF

VWR Advanced SF frocks are manufactured from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film. Tested and manufactured in an ISO Certified facility under stringent process controls. Lot controlled and validated through independent lab testing.

- Snap collar, raglan sleeves, snap closure, elastic cuffs
- Durable fabric with good breathability and water transmission rate
- Significant fluid and particulate barrier
- Particle shedding: Level II Helmke drum classification
- Soft, cloth-like fabric

Colour: White

Clothing size	Pk	Cat. No.
S	25	**113-1177**
M	25	**113-1178**
L	25	**113-1179**
XL	25	**113-1180**
XXL	25	**113-1181**
3XL	25	**113-1182**
4XL	25	**113-1183**

Cleanroom frocks, VWR Maximum, SF

VWR Maximum SF frocks are the cleanest and most durable within the entire VWR clothing line. Made from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film, these garments have been designed to optimise barrier protection, cleanliness, and comfort properties. Tested and manufactured in an ISO Certified facility under stringent process controls. Lot controlled and validated through independent lab testing.

- Snap collar, raglan sleeves, snap closure, elastic cuffs
- Superior fluid and particulate barrier
- Lowest level of particle shedding: Level 1 Helmke drum classification
- Light chemical splash resistance
- Improved breathability to ensure user comfort
- Soft, cloth-like fabric with maximum tear strength

Colour: White

Clothing size	Pk	Cat. No.
M	25	**113-1167**
L	25	**113-1168**
XL	25	**113-1169**
XXL	25	**113-1170**
3XL	25	**113-1171**
4XL	25	**113-1172**

Cleanroom lab coats, Tyvek® 1431 N, reusable

DuPont®

These anti-static lab coats made from Tyvek® 1431 N are recommended for protection against dirt from non hazardous materials only. These garments are not intended for use in hazardous environments.

- Easily recycled (can also be incinerated)
- Comfortable, light and flexible: Made from breathable material, permeable to air and water vapour
- Low lint and non contaminating
- Highly resistant to wear and tear

Colour: White

Density: 41 g/m²

Cat. I

Clothing size	Pk	Cat. No.
5 plastic snap fasteners at the neck, 3 pockets		
M	50	**113-0468**
L	50	**113-0467**
XL	50	**113-0469**
XXL	50	**113-0470**
Zip closure at the neck, 2 pockets		
S	50	**113-3882**
M	50	**113-0472**
L	50	**113-0471**
XL	50	**113-0473**
XXL	50	**113-0474**
5 plastic snap fasteners at the neck, no pockets		
M	50	**113-0476**
L	50	**113-0475**
XL	50	**113-0477**
XXL	50	**113-0478**

Trousers, Tyvek® 1431 N

DuPont®

These trousers made from Tyvek® (1431 N, anti-static) are recommended for protection against dirt from non hazardous materials only. They are not intended for use in hazardous environments.

- Without pockets, elasticated at the waist
- Easily recycled (can also be incinerated)

Colour: White

Density: 41 g/m²

Clothing size	Pk	Cat. No.
M	50	**113-0482**
L	50	**113-0481**
XL	50	**113-0483**
XXL	50	**113-0484**

Aprons, LDPE/LLDPE

This disposable apron is made from a mixture of 65% LDPE and 35% LLDPE.

- Excellent resistance to most corrosive chemicals
- Effective against dirt, moisture and oil

Length: 1200 or 1400 mm

Colour: White

Size (mm)	Colour	Pk	Cat. No.
700×1200	White	100	**113-0740**
780×1400	White	100	**113-0741**

Aprons, Tyvek® 1431 N
DuPont®

This apron made from Tyvek® 1431 N is only recommended for protection against light soiling from non hazardous materials. It is not intended for use in hazardous environments.

- Bib and two cords for tying behind the back and neck
- Easily recycled (can also be incinerated)
- One size fits all

Density: 41 g/m²

Colour: White

Size (mm)	Colour	Pk	Cat. No.
700×1000	White	100	**113-0479**

Cold resistant aprons, Cryo-Apron®
Tempshield

Cryo-Aprons® are multi-layer insulated aprons designed to provide protection to the torso and legs from contact with ultra cold surfaces in cryogenic atmospheres and from splashes. Ideal for working in deep-freeze environments, with cryogenic liquids, dry ice, liquid nitrogen (vapour phase) or when working with autoclaves. The apron is insulated with a breathable membrane laminated to the inner surface. A flexible non woven scrim is bonded to each side.

- Protects against temperatures from –160 to +150 °C
- Fitted with adjustable straps and quick release buckles at the neck and waist
- Waterproof nylon outer shell protects from cryogenic splashes
- Cryo-Industrial® model features a rugged waterproof Cordura® nylon outer shell for improved safety

Colour: Blue

EN 511; Cat. III

Size (mm)	Colour	Pk	Cat. No.
Cryo-Apron®			
915	Blue	1	**113-2600**
1070	Blue	1	**113-2601**
1220	Blue	1	**113-2602**
1380	Blue	1	**113-2603**
Cryo-Industrial® Apron			
1067	Dark Blue	1	**113-1599**

Aprons, D300, PE
Portwest

Disposable bib aprons made of PE. Ideal for healthcare or food processing applications.

- Halter neck and ties around the waist
- Flat pack dispensing enables ease of use

Three different colours available.

Size (mm)	Colour	Pk	Cat. No.
690×1070	Blue	500	**113-7404**
690×1070	White	500	**113-7407**
690×1070	Yellow	500	**113-7408**

Chemical resistant aprons, Tychem® C and Tychem® F
DuPont®

Tychem® C and Tychem® F aprons provide a reliable barrier for use in the chemical industry, in the disposal of hazardous substances or when working with oil. Tychem C (yellow) provides a barrier against concentrated inorganic chemicals and Tychem F (grey), a barrier against organic chemicals and highly concentrated inorganic chemicals. The below knee length aprons feature fastening straps at the neck and waist.

- The design guarantees freedom of movement and comfort for the user
- High level of protection yet lightweight
- Free of halogen compounds, making them easy to dispose of
- Chemical barriers and physical properties of the materials have been tested by independent institutes

Colour: Yellow (Tychem® C) or grey (Tychem® F)

Type 3B, Cat. III

Colour	Pk	Cat. No.
Yellow	25	**113-0875**
Grey	25	**113-0880**

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Overalls, PP, tapered collar

Overalls made from non woven PP. Ideal for non critical applications.

- Tapered collar, long sleeves and legs
- Bound seams and zip fastening
- Elasticated waist, wrist and ankles

Density: 40 g/m²

Colour: White

Clothing size	Pk	Cat. No.
L	25	113-0720
XL	25	113-0721
XXL	25	113-0722
3XL	25	113-0975

Overalls, PP, with hood

Overalls made from non woven PP. Ideal for non critical applications.

- Hood, long sleeves and legs
- Elasticated waist, wrist and ankles
- Bound seams and zip fastening

Density: 40 g/m²

Colour: White

Clothing size	Pk	Cat. No.
M	25	113-0723
L	25	113-0724
XL	25	113-0725
XXL	25	113-0726
3XL	25	113-0976

Overalls, SPP

Breathable overalls made of spunbonded polypropylene (SPP), a lightweight fabric that provides protection in non hazardous, dirty work environments.

- With hood
- Zip closure
- Elasticated cuffs, ankles and waist

Weight: 50 g/m²

Colour: White

Clothing size	Pk	Cat. No.
M	50	113-6229
L	50	113-6230
XL	50	113-6231
XXL	50	113-6232
3XL	50	113-6233
4XL	50	113-6234

Overalls, SMS

These durable, anti-static overalls are made of breathable and soft SMS, a spunbounded fabric with a unique trilaminate construction that offers a high tensile strength and toughness and provides a barrier to fluids and particulates. The overalls can be used in medical, industrial, laboratory, electronic and pharmaceutical applications. Suitable for use in Critical Environments (IEST-RP-CC003.3 – Level I).

- With elasticated hood
- Zip closure with flap
- Elasticated cuffs, ankles and waist
- Serged seams (stitching method)
- Low lint performance

Weight: 55 g/m²

Colour: White

EN 340, EN 1149-5, EN 13034+A1 (Type 5), EN 13982-1+A1 (Type 6), EN 1073-2; Cat. III

Clothing size	Pk	Cat. No.
S	50	**113-6235**
M	50	**113-6236**
L	50	**113-6237**
XL	50	**113-6238**
XXL	50	**113-6239**
3XL	50	**113-6240**

Overalls, KLEENGUARD* A40
Kimberly-Clark

This hooded overall with full length zip is made from ultra-strong, silicone-free, anti-static fabric. It provides protection against chemical splashes and particles. Especially well suited for critical production, such as pharmaceutical, chemical handling, manufacturing and electronic assembly.

- Laminate film provides a barrier against a wide range of chemicals (Type 6)
- Particle protection, keeps out >99% of fibres larger than 1 µm (Type 5)
- Strong triple stitched seams help protect against tearing
- Hood is designed to allow a mask to be worn and preserves freedom of movement
- Ultra-low lint performance

Colour: White

Type 5/6, EN 1149-1, EN 1073-2; Cat. III

Clothing size	Pk	Cat. No.
S	25	**113-7945**
M	25	**113-7933**
L	25	**113-7934**
XL	25	**113-7935**
XXL	25	**113-7936**
3XL	25	**113-7937**

Overalls, KLEENGUARD* A45
Kimberly-Clark

These hooded overalls with zip fastener are made from anti-static, breathable, extremely durable and silicone-free material. They provide excellent protection against particles and splashes, and are ideal for use in critical production areas, especially in the paint, pharmaceutical, chemical and electronics industries.

- Layered for protection from a very broad range of chemical products (type 6) and to reduce lint
- Particle protection, retains >99% of fibres larger than 1 µm (type 5)
- Reinforced seams help protect against tearing
- Hood is designed to allow a mask to be worn and preserve freedom of movement
- Colour coded badge for easy identification

Colour: White

Type 5/6, EN 1149-1, EN 1073-2, Cat. III

Clothing size	Pk	Cat. No.
S	25	**113-7946**
M	25	**113-7947**
L	25	**113-7948**
XL	25	**113-7949**
XXL	25	**113-7950**
3XL	25	**113-7951**

Overalls, ProShield® 10, PP/SMS
DuPont®

These hooded overalls are particularly suitable for sanitation and maintenance work. To be used for exposure to dirt, non toxic dust, and for short-term protection from liquid splashes only. The overalls have a front zip with flap and are elasticated at the hood, waist, wrists, and ankles.

- Non woven polypropylene SMS
- Comfortable, light and flexible
- Anti-static

Colour: White or blue

Density: 62 g/m^2

Type 5/6, EN 1149, EN 1073-2; Cat. III

Colour	Clothing size	Pk	Cat. No.
Blue	S	50	**113-1845**
Blue	M	50	**113-1824**
Blue	L	50	**113-1803**
Blue	XL	50	**113-1876**
Blue	XXL	50	**113-1782**
White	S	50	**113-0546**
White	M	50	**113-0545**
White	L	50	**113-0544**
White	XL	50	**113-0547**
White	XXL	50	**113-0554**

Overalls, ProShield® 30, PP
DuPont®

These overalls are closed at the front via a zip with flap. For exposure to dirt, non toxic dust, and for short-term protection from liquid splashes.

- Non woven polypropylene + microporous polyethylene film
- Elasticated at the hood, waist, wrists and ankles
- Comfortable, light and flexible

Colour: White

Density: 60 g/m²

Type 5/6, EN 1149-5 (only inside), EN 1073-2; Cat. III

Clothing size	Pk	Cat. No.
S	100	**113-0551**
M	100	**113-0550**
L	100	**113-0549**
XL	100	**113-0553**
XXL	100	**113-0552**

Flame-retardant overalls, ProShield® FR
DuPont®

These hooded protective coveralls are made from a flame-retardant non woven PP fabric that provides limited protection against heat, flames and chemicals (index 1). Ideal for use in petrochemicals, utilities, welding applications, oil and gas industry and in the metal industry.

- Open structure of breathable non woven SMMMS fabric maximises wearer comfort
- Three-piece hood, zip with flap, elasticated waist, cuffs, ankles and hood
- Anti-static treatment on both sides, halogen-free

Colour: White (with orange seams)

Weight: 60 g/m²

Type 5/6, EN 1149-5, EN 1073-2, EN ISO 14116-2008 (index 1); Cat. III

Clothing size	Pk	Cat. No.
M	100	**113-6386**
L	100	**113-6385**
XL	100	**113-6383**
XXL	50	**113-6384**
3XL	100	**113-6382**

VWR CHEMICAL CATALOGUE

Solvents, standards, microbiology media, microscopy and life science products

Request your copy from your local VWR sales office or vwr.com

Overalls, Tyvek® Classic Xpert
DuPont®

These hooded overalls made from Tyvek® 1431 N provide protection against a wide range of inorganic chemicals and particles. They offer enhanced protection against a range of threats, from water-based chemical liquid splashes, asbestos, pharmaceutical and radioactive particulates to biological hazards.

- Ultra low linting
- Elasticated at waist, wrists and ankles, flap-over closure
- Anti-static (white model), blue and green models feature an anti-static treatment (inside only)
- Offers an excellent barrier against fine particles and fibres (down to 1 micron in size)
- 6× more particulate protection and 3× more liquid protection than Classic version thanks to new seam technology
- Robust yet lightweight (<180 g per garment)

Colour: Blue, green or white

Density: 41 g/m²

Types 5/6, EN 1149-5, EN 1073-2, EN ISO 17491-4, EN 14126; Cat. III

Packaging: Individually packaged with size label on each bag.

Colour	Clothing size	Pk	Cat. No.
White	S	25	**113-6060**
White	M	25	**113-6061**
White	L	25	**113-6062**
White	XL	25	**113-6063**
White	XXL	25	**113-6064**
White	3XL	25	**113-6065**
Blue	M	25	**113-3870**
Blue	L	25	**113-3871**
Blue	XL	25	**113-3872**
Blue	XXL	25	**113-3873**
Green	M	25	**113-3865**
Green	L	25	**113-3866**
Green	XL	25	**113-3867**
Green	XXL	25	**113-3868**

Overalls, Tyvek® Classic Plus
DuPont®

These overalls made from Tyvek® 1431 N are recommended for protection against weak concentrations of a wide range of inorganic chemicals. They offer an excellent barrier against fine particles and fibres (down to 1 micron in size).

- Watertight stitching provides maximum protection
- Anti-static treatment
- Thumb loops
- Elasticated waist, face opening, wrists and ankles
- Over taped seams, zip closure with self-adhesive zip flap
- Robust yet lightweight (<250 g per garment)

Density: 41 g/m²

Type 4B/5/6, EN 1149-5, EN 14126:2003, Cat. III

Packaging: Individually packaged with size label on each bag.

Colour	Clothing size	Pk	Cat. No.
Without integral socks			
White	S	25	**113-3874**
White	M	25	**113-3875**
White	L	25	**113-3876**
White	XL	25	**113-3877**
White	XXL	25	**113-3878**
White	3XL	25	**113-3879**
With integral socks			
White	S	20	**113-3892**
White	M	20	**113-3893**
White	L	20	**113-3894**
White	XL	20	**113-3895**
White	XXL	20	**113-3896**
White	3XL	20	**113-3897**

Overalls, industry, Tyvek® 1431 N
DuPont®

These overalls made from Tyvek® 1431 N can be used in all applications where sensitive processes or products must be shielded from any contamination by humans. They provide a barrier against many dilute inorganic chemicals and particles larger than 1 µm.

- With collar
- Elasticated waist, wrists and ankles
- Closed at the front with a zip and a flap-over closure made from Tyvek®
- Anti-static

Colour: White

Density: 41 g/m²

Type 5/6, EN 1149, EN 1073-2; Cat. III

Packaging: Individually packaged with size label on each bag.

Clothing size	Pk	Cat. No.
S	25	**113-3853**
M	25	**113-3854**
L	25	**113-3855**
XL	25	**113-3856**
XXL	25	**113-3857**
3XL	25	**113-9700**

Overalls, Dual, Tyvek® 1431 N, model CHF5
DuPont®

This antistatic overall is made from Tyvek® 1431 N. It is suitable when working with frontal exposures (glass manufacturing, foundries and melting operations, batteries).

- Tyvek® front combined with a breathable ACT back provides increased protection and overall breathability
- Excellent barrier against particles and fibres, repels water-based liquids and aerosols
- Ergonomic three piece hood allows easy movement of head
- Tyvek® zip with protective flap and elasticated cuffs, ankles and facial opening

Weight: 41 g/m²

Type 5/6, EN 1149-1, EN 1073-2, Cat. III

Colour	Clothing size	Pk	Cat. No.
White	S	100	**113-9705**
White	M	100	**113-9706**
White	L	100	**113-9707**
White	XL	100	**113-9708**
White	XXL	100	**113-9709**
White	3XL	100	**113-9710**

VWR We Enable Science

basan the cleanroom division of VWR

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packaging and irradiation services

CleanPack® – gain time for your core production activity

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- We guarantee reliable supply and consistent quality
- Permanent implementation of a quality management system as per DIN EN ISO 9001:2008

For further information or a quotation, tailored to your requirements, please contact us!

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Overalls, Tyvek® Labo, model CHF7

DuPont®

Chemical protective, anti-static overall with three-piece hood and attached shoe covers. Suitable for cleanroom classes ISO 7/8/9. Ideal for medical production and cleaning processes.

- Internal stitched seams and zip made of Tyvek® with zip flap for increased protection
- Tunnelled cuff, facial elastics and glued-in waist elastification for improved comfort
- Integrated shoe covers with slip retardant soles

Colour: White

Type 5/6, EN 1149-5:2008, EN 1073-2; Cat. III

Clothing size	Pk	Cat. No.
S	25	113-1547
M	25	113-1548
L	25	113-1549
XL	25	113-1550
XXL	25	113-1551
3XL	25	113-1552

Overalls, Tyvek® Labo, model CHF7, CleanPacked

DuPont®

CleanPack®

Tyvek® CHF7 Labo overalls in their original packaging, which have then been individually bagged in cleanroom bags within the Basan ISO 5 cleanroom. Irradiated at a minimum of 25kG.

- Resulting product is individually double bagged and irradiated
- Cleanroom bags are heat sealed and have easy-tear openings
- Supplied with lot specific certificate of irradiation

CleanPack® offers bespoke cleanroom repackaging and sterilisation services. Please contact your VWR sales office with any specific enquiries.

Clothing size	Pk	Cat. No.
S	25	113-8056
M	25	113-8055
L	25	113-8054
XL	25	113-8057
XXL	25	113-8058
3XL	25	113-8059

Fire-retardant overalls, Deltasafe Plus, PP

Honeywell Safety Products

The fire-retardant disposable Deltasafe Plus overalls are designed to protect against particles contamination and chemical splashes. Made from four-layered PP they have been developed to avoid any risk when manipulating flammable substances. Ideal for use in the chemical and petrochemical industries, transport, energy or electricity and maintenance.

- Fire retardant and M1 certified
- Material offers breathability equal to a T-shirt
- Anti-static to avoid accumulation of electrostatic charges that may cause a risk of explosion or fire

Weight: 60 g/m²

Colour: White

Type 5/6, EN 340, EN 1149-1, EN 1073-2, EN 13034, EN 13982-1, NFP92-507, EN 533, Cat. III

Clothing size	Pk	Cat. No.
S	25	113-1670
M	25	113-1671
L	25	113-1672
XL	25	113-1673
XXL	25	113-1674
3XL	25	113-1675

Overalls for food industries, polyester/cotton, 2201

Portwest

Durable boilersuit made of Fortis Plus fabric (65% polyester / 35% cotton). Ideal for use in food processing industries.

- Elasticated sides and action back for unrestricted movement
- Concealed stud front fastening that prevents any snagging or inadvertent collection of foodstuffs
- Inside breast pocket, two side pockets
- Machine washable
- Available in two lengths - regular and tall

Colour: White

Weight: 245 g

Type	Clothing size	Pk	Cat. No.
Regular	S	1	**113-6198**
Regular	M	1	**113-6199**
Regular	L	1	**113-6200**
Regular	XL	1	**113-6201**
Regular	XXL	1	**113-6202**
Regular	3XL	1	**113-6203**
Tall	M	1	**113-6204**
Tall	L	1	**113-6205**
Tall	XL	1	**113-6206**
Tall	XXL	1	**113-6207**

Cleanroom overalls, VWR Basic, SPP

The VWR Basic SPP overalls are manufactured from a strong, lightweight, and breathable spunbonded polypropylene (SPP) fabric, which protects against dirt, grime, and certain dry particulates in non hazardous environments. This garment is ideal for less critical areas or pre-gowning entry rooms. It is tested and manufactured in an ISO Certified facility and lot controlled and validated through independent lab testing.

- Tapered collar, inset sleeves, zip closure, elastic cuffs
- Lightweight and breathable first line barrier protection

Colour: White

Clothing size	Pk	Cat. No.
M	25	**113-1104**
L	25	**113-1105**
XL	25	**113-1106**
XXL	25	**113-1107**
3XL	25	**113-1108**
4XL	25	**113-1109**
5XL	25	**113-1110**

Cleanroom overalls, VWR Basic, SMS

These cleanroom overalls are manufactured from a latex-free, multilayer spunbonded-meltblown-spunbonded (SMS) fabric that offers high tensile strength while remaining soft, comfortable, and breathable.

- Tapered collar, inset sleeves, zip closure, elastic cuffs
- Fluid and particulate barrier
- Light chemical splash resistance

Colour: White or blue

Colour	Clothing size	Pk	Cat. No.
White	M	25	**113-1097**
White	L	25	**113-1098**
White	XL	25	**113-1099**
White	XXL	25	**113-1101**
White	3XL	25	**113-1102**
White	4XL	25	**113-1103**
Blue	S	25	**113-1090**
Blue	M	25	**113-1091**
Blue	L	25	**113-1092**
Blue	XL	25	**113-1093**
Blue	XXL	25	**113-1094**
Blue	3XL	25	**113-1095**
Blue	4XL	25	**113-1096**

Cleanroom overalls, VWR Advanced, SF

VWR Advanced SF overalls are manufactured from spunbonded polypropylene fabric coated with breathable polyethylene film. Tested and manufactured in an ISO Certified facility under stringent process controls. Lot controlled and validated through independent lab testing.

- Available with tapered collar or with hood and attached boot covers
- Inset sleeves, zip closure, elastic cuffs
- Durable fabric with good breathability and water transmission rate
- Significant fluid and particulate barrier
- Particle shedding: Level II Helmke drum classification
- Soft, cloth-like fabric

Colour: White

Clothing size	Pk	Cat. No.
Overalls with collar		
S	25	**113-1061**
M	25	**113-1062**
L	25	**113-1063**
XL	25	**113-1064**
XXL	25	**113-1065**
3XL	25	**113-1066**
4XL	25	**113-1067**
5XL	25	**113-1068**
Hooded overalls with attached fluid-impervious boot covers		
L	25	**113-1069**
XL	25	**113-1070**
XXL	25	**113-1071**
3XL	25	**113-1072**
4XL	25	**113-1073**

Cleanroom overalls, VWR Maximum, SF

VWR Maximum SF overalls are the cleanest and most durable within the entire VWR clothing line. Made from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film, these garments have been designed to optimise barrier protection, cleanliness, and comfort properties. Tested and manufactured in an ISO Certified facility under stringent process controls. Lot controlled and validated through independent lab testing.

- Available as a standard overall with collar, either elasticated ankles or non slip boot covers, or hooded overall with fluid-impervious boot covers
- Inset sleeves, zip closure, elastic cuffs
- Superior fluid and particulate barrier
- Lowest level of particle shedding: Level 1 Helmke drum classification
- Light chemical splash resistance
- Improved breathability to ensure user comfort
- Soft, cloth-like fabric with maximum tear strength

Colour: White

Clothing size	Pk	Cat. No.
Standard overall with collar		
M	25	**113-1078**
L	25	**113-1079**
XL	25	**113-1080**
XXL	25	**113-1081**
3XL	25	**113-1082**
4XL	25	**113-1083**
5XL	25	**113-1084**
Overall with collar and attached non skid boot covers		
M	25	**113-1085**
L	25	**113-1086**
XL	25	**113-1087**
XXL	25	**113-1088**
3XL	25	**113-1089**
Hooded overall with attached fluid-impervious boot covers		
M	25	**113-1074**
L	25	**113-1075**
XL	25	**113-1076**
XXL	25	**113-1077**

Cleanroom coveralls, KIMTECH PURE* A5
Kimberly-Clark

Suitable for use in Class 100, ISO 5, 3.5 environments.

The KIMTECH PURE* A5 sterile cleanroom apparel with CLEAN-DON* technology is made of SMS (Spunbond Meltblown Spunbond) material. It features built-in snaps that gather up legs and arms to aid aseptic gowning. Garments have a thumb loop that prevents the sleeve from rolling back and exposing arm or wrist when in use.

- Cloth-like comfort
- Innovative Inside-Out fold pattern, reducing the risk of touching and contaminating the outside of the apparel when opening or donning
- Highly visible blue line along the inside of the garment signals the proper place to grasp while gowning
- Vacuum packaging reduces space so more products fit into gowning area storage

Colour: White

Packaging: Vacuum packed and double bagged for added sterility assurance.

Clothing size	Pk	Cat. No.
S	25	**113-1198**
M	25	**113-1199**
L	25	**113-1210**
XL	25	**113-1211**
XXL	25	**113-1212**
3XL	25	**113-1213**
4XL	25	**113-1219**

Cleanroom overalls, BioClean-D™ Clean-Tough™, disposable

Nitritex

Suitable for use in Class 10, ISO 4, M2.5 environments.

The disposable overalls made from Clean-Tough™ fabric provide good protection against hazardous dusts (including nuclear particles) and limited protection against chemical splashes. Available with hood or with collar.

- Lightweight, low linting and hard-wearing material
- Available as sterile or non sterile version
- Zip front with flap cover, thumb loops, elasticated back, cuffs and ankles
- Each size carries a unique barcode on the outer carton (ITF-14), this allows automatic data entry into Stock Control Systems

Colour: White

Type 5/6; Cat. III

Packaging: One coverall per sealed plastic bag; 20 coveralls per sealed carton liner; one carton liner per carton. Sizes 3XL and 4XL are available on request.

Type	Clothing size	Pk	Cat. No.
With hood			
Non sterile	XS	20	**113-8008**
Non sterile	S	20	**113-8006**
Non sterile	M	20	**113-8005**
Non sterile	L	20	**113-8004**
Non sterile	XL	20	**113-8007**
Non sterile	XXL	20	**113-8000**
Sterile	XS	20	**113-8032**
Sterile	S	20	**113-8018**
Sterile	M	20	**113-8017**
Sterile	L	20	**113-8016**
Sterile	XL	20	**113-8019**
Sterile	XXL	20	**113-8033**
With collar			
Non sterile	XS	20	**113-7999**
Non sterile	S	20	**113-7997**
Non sterile	M	20	**113-7996**
Non sterile	L	20	**113-7995**
Non sterile	XL	20	**113-7998**
Non sterile	XXL	20	**113-7994**
Sterile	XS	20	**113-8014**
Sterile	S	20	**113-8012**
Sterile	M	20	**113-8011**
Sterile	L	20	**113-8010**
Sterile	XL	20	**113-8013**
Sterile	XXL	20	**113-8009**

Chemical resistant cleanroom overalls, type 4/5/6

Suitable for use in Critical Environments (IEST-RP-CC003.3 – Level II).

Disposable, anti-static overall made of a microporous film with a nylon scrim between film and substrate that gives the material additional strength. The breathable garment provides protection against chemical dusts, paint sprays, asbestos, and other airborne dusts. It can be used in any non hazardous environment where protection against dirt, grime, splashes and spills is required.

- With hood
- Zip closure with flap
- Elastic cuffs, ankles and waist
- Seams sealed with dark green tape (liquid-proof)
- Anti-static
- Individually packed

Weight: 60 g/m²

Colour: White

Type 4/5/6, EN 340, EN 1149-5, EN 1073-2, EN 14126; Cat. III

Clothing size	Pk	Cat. No.
S	50	113-6241
M	50	113-6242
L	50	113-6243
XL	50	113-6244
XXL	50	113-6245
3XL	50	113-6246

Chemical resistant overalls, Tychem® C

DuPont®

These overalls feature a polymer coating over their basic fabric. They are 100% impermeable to particles, alkalis, and are particularly recommended for inorganic acids and bioprotection. The hood has an elasticated face opening and is designed to allow precise adjustment for breathing apparatus. Electrostatic discharge when earthed correctly.

- Light and flexible for optimum comfort
- Stitching covered by welded sealing tapes, elastic at the wrists, back and ankles
- Thumb loop, flap over the zip and cover under chin
- Splash resistant to a pressure of 2 bar
- Individually packed

Colour: Yellow

Density: 83,2 g/m²

Type 3B/4/5/6, EN 1149-5, EN 1073-2, EN 14126; Cat. III

Clothing size	Pk	Cat. No.
Without integral socks		
S	25	113-0497
M	25	113-0496
L	25	113-0495
XL	25	113-0498
XXL	25	113-0485
With integral socks		
M	20	113-0529
L	20	113-0499
XL	20	113-0486
XXL	20	113-0487
3XL	20	113-0488

Chemical resistant overalls, Tychem® F

DuPont®

These overalls have a Tyvek® base fabric with a laminated film. They are 100% impermeable to particles, and are recommended for handling organic acids, alkalis, and for bioprotection. Hood with elasticated face opening is designed to allow precise adjustment for breathing apparatus. Electrostatic discharge when earthed correctly.

- Light and flexible for optimum comfort
- Stitching covered by welded sealing tapes, elasticated wrists, back and ankles, thumb loop
- Flap over the zip and cover under chin
- Splash resistant to a pressure of 5 bar
- Grey version is available with or without integral socks

Colour: Grey or orange

Weight: 120 g/m² (500 g per garment)

Type 3B/4/5/6, EN 1149-5-5, EN 1073-2, EN 14126, Cat. III

Colour	Clothing size	Pk	Cat. No.
Without integral socks			
Orange	M	25	**113-1937**
Orange	L	25	**113-1897**
Orange	XL	25	**113-1744**
Orange	XXL	25	**113-1771**
Grey	S	25	**113-0538**
Grey	M	25	**113-0537**
Grey	L	25	**113-0536**
Grey	XL	25	**113-0531**
Grey	XXL	25	**113-0532**
With integral socks			
Grey	M	20	**113-0540**
Grey	L	20	**113-0539**
Grey	XL	20	**113-0533**
Grey	XXL	20	**113-0534**

Chemical resistant overalls, Tychem® F2

DuPont®

Hooded overall in Tyvek®, featuring a polymeric coating. This anti-static overall is 100% particle-tight and provides an excellent barrier against concentrated inorganic chemicals and biological hazards.

- Multi-layer system of inner fabric provides comfortable, textile-like touch
- Elasticated face opening, waist and cuffs
- Double zip with Velcro® flap
- Stitched, overtaped seams and double-cuff system
- Resists liquid splashes of pressures up to 5 bar

Colour: Grey

Weight: 120 g/m²

Type 3B/4/5/6, EN 1149-5, EN 1073-2, Cat. III

Clothing size	Pk	Cat. No.
M	10	**113-6373**
L	10	**113-6372**
XL	10	**113-6374**
XXL	10	**113-6375**
3XL	10	**113-6376**

Chemical resistant overalls, Botlek
Sioen

This unlined overall is made of Chemtex®, a strong double-sided PVC coated polyester fabric. This material offers protection against different types of chemicals.

- Waterproof and windproof, tear resistant, extremely strong
- High frequency welded seams
- Fixed hood, zip closure under double flap with press studs
- Raglan sleeves

Colour: Green

Weight: 360 g/m²

EN 465, ENV 343 (3-1)

Clothing size	Pk	Cat. No.
S	1	113-7128
M	1	113-5956
L	1	113-5955
XL	1	113-5952
XXL	1	113-5953
3XL	1	113-5954

Chemical resistant overalls, 4520
3M

These 4520 overalls offer reliable protection against harmful dust and light chemical splashes. They are ideal for servicing, cleaning and construction work or for wood/metal processing.

- Lightweight, breathable material
- Two-way zip with cover
- Anti-static properties

Colour: White

Cat. III, type 5/6

Clothing size	Pk	Cat. No.
M	20	113-0796
L	20	113-0795
XL	20	113-0797
XXL	20	113-0798

Chemical resistant overalls, 4530+
3M

These overalls are made from breathable non woven fabric (SMMMS polypropylene) with a special treatment that provides repellency to some oil-based liquids. Typical applications may include oils and petrochemicals, steel manufacturing, powder handling, paint spraying, light-duty maintenance, building cleaning, metal grinding, or polishing and woodworking.

- Breathable material reduces heat build-up
- Elasticated waist and ankles for freedom of movement and knitted cuffs for extra comfort
- Three-panel hood design for a better fit and compatibility with other PPE
- Two-way zip and sealable storm flap for enhanced protection
- Low-linting properties and anti-static coating

Colour: White or blue

Type 5/6, EN 1149-5, EN 1073-2:2002; Cat. III

Colour	Clothing size	Pk	Cat. No.
White	S	20	**113-7964**
White	M	20	**113-7963**
White	L	20	**113-7962**
White	XL	20	**113-7965**
White	XXL	20	**113-7959**
White	3XL	20	**113-7960**
White	4XL	20	**113-7961**
Blue	S	20	**113-7956**
Blue	M	20	**113-7955**
Blue	L	20	**113-7954**
Blue	XL	20	**113-7957**
Blue	XXL	20	**113-7958**
Blue	3XL	20	**113-7952**
Blue	4XL	20	**113-7953**

Chemical resistant overalls, 4535
3M

These disposable overalls made of PP with a PE laminate provide an excellent barrier against dry particles and certain limited liquid chemical splashes. Typical light duty applications may include paint spraying, industrial clean up and maintenance, industrial and chemical processing, building cleaning, insulation laying, pesticide handling/agriculture (particulate aerosols only), powder coating and pharmaceutical manufacturing.

- Elasticated waist and ankles for freedom of movement and knitted cuffs for extra comfort
- Extra large breathable back panel (SMMMS) for reduced heat stress and increased comfort
- Two-way zip, hood and sealable storm flap for enhanced protection
- Low-linting properties and anti-static coating

Colour: White/blue

Type 5/6, EN 1149-5, EN 1073-2:2002; Cat. III

Clothing size	Pk	Cat. No.
S	20	**113-6299**
M	20	**113-6298**
L	20	**113-6297**
XL	20	**113-6300**
XXL	20	**113-6295**
3XL	20	**113-6296**

Chemical resistant overalls, 4540+
3M

These disposable overalls are made of a high quality laminated material and provide a barrier protection against light liquid splashes and hazardous dusts. Typical applications may include paint spraying, industrial and pharmaceutical processing, asbestos inspection, insulation laying, and vehicle and machine maintenance (oils and greases).

- Elasticated waist and ankles for freedom of movement and knitted cuffs for extra comfort
- Breathable back panel (SMMMS) for reduced heat stress and increased comfort
- Three-panel hood design for a better fit and compatibility with other PPE
- Two-way zip and sealable storm flap for enhanced protection
- Low-linting properties and anti-static coating

Colour: White/blue

Type 5/6, EN 1149-5, EN 1073-2:2002; Cat. III

Clothing size	Pk	Cat. No.
S	1	113-6305
M	1	113-6304
L	1	113-6303
XL	1	113-6306
XXL	1	113-6307
3XL	1	113-6301
4XL	1	113-6302

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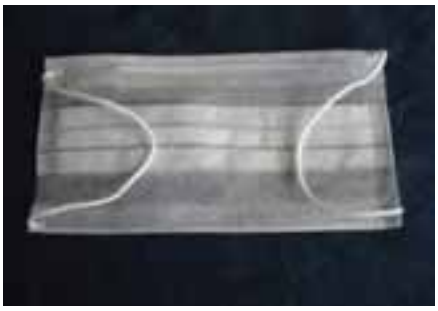
1	10	100	1000	10 000	100 000
ISO 3	ISO 4	ISO 5 A/B	ISO 6	ISO 7 C	ISO 8 D

For further information or a quotation, tailored to your requirements, please contact us!

Hygiene masks, 2-ply non woven PP



The hygiene mask with nose bridge is made from two ply, non woven PP.

- Latex-free
- Available with earloops or ties

Density: 20 g/m² (front layer); 25 g/m² (back layer)

Type	Colour	Pk	Cat. No.
With earloops	White	50	**113-0713**
With ties	Green	50	**113-0715**

Hygiene masks, 3-ply non woven PP

Hygiene masks made from 3-ply, non woven PP and featuring a nose bridge and ear loops.

- Latex-free
- Bacterial filtration efficiency: 99,7%
- Particle filtration efficiency: 98,5%
- Particle size: 0,1 µm

Density: 20 g/m² (front layer); 20 g/m² (back layer); 25 g/m² (centre)

Type	Colour	Pk	Cat. No.
With ear loops	Green	50	**113-0714**
With ear loops	Blue	50	**113-0716**

Surgical masks, THE LITE ONE*, PE/cellulose
Kimberly-Clark

The masks feature a flexible nosepiece for effective sealing and polyester cellulose inner layer to help prevent irritation.

- Effectively filters 99,80% of particles at 0,1 µm
- Effectively filters 97,84% of bacteria at 2,8 µm

Type	Colour	Pk	Cat. No.
With headband	Blue	50	**111-0507**
With headband	White	50	**111-9007**

Surgical masks, cellulose/PP
Kimberly-Clark

These medical care masks permit applications requiring high filtration efficiency. PP filter without glass fibres.

- Bacterial filtration efficiency 97,82% for 3 hr for bacteria size 2,9 µm
- Particulate filtration efficiency 99,06% for particulate size 0,1 µm
- 2-ply with nose clip
- Spandex ear straps (more comfortable than the usual elastic straps)

L×W (unfolded): 176×170 mm

Type	Colour	Pk	Cat. No.
With earloops	Blue	50	**111-9001**
With earloops	Green	50	**111-0501**
With earloops	White	50	**111-0502**
With earloops	Yellow	50	**111-0504**

Cleanroom face masks, Maximum

Maximum cleanroom masks feature three ply construction for superior particle and bacterial filtration efficiency. These masks are latex-free.

- Three ply masks provide high bacterial and particle filtration efficiency
- Highly breathable and fluid resistant
- A full length plastic arch holds the fabric away from the wearer's mouth to allow cooler, more comfortable breathing
- Malleable noseband ensures a custom, secure seal
- Available with spandex ear loops or PP-ties, ultrasonically welded to maintain softness and guard against particulates
- Moisture resistant, sterile mask features a unique, lightweight inner layer of film for enhanced moisture resistance

Colour: White or blue

LxH: 175x95 mm

Particle shedding (particles: ≥0,5 µm/cu. ft.): 196 (IEST-RP-CC003.3)
Bacterial filtration efficiency (%): >99 (ASTM F2101)
Particle filtration efficiency (%): >99 (ASTM F2299)
Delta P breathability (mm H20/cm2): 1.9 - 2.2 (MIL-M-36954C)
Rigorously tested and manufactured in an ISO certified facility; products are validated through independent lab testing.

Packaging: 50 masks per cleanroom-compatible, heat-sealed bag; 10 bags per case.

Type	Colour	Pk	Cat. No.
With earloops	Blue	500	**113-6220**
With ties	White	500	**113-6221**
With earloops	White	500	**113-6222**

Cleanroom face masks, KIMTECH PURE* M3, PE
Kimberly-Clark

Suitable for use in Class 1, ISO 3, M1.5 environments or higher.

- Outer layer of apertured PE film protects from contamination
- Sterile polyester binding and polyester filter media
- Bacteria filtration efficiency of 94% and particle filtration efficiency of 93,1%

Packaging: Individually packed. Packs are double bagged.

Type	Size	Colour	Pk	Cat. No.
With ties	18 cm	White	200	**111-9008**
With ties	23 cm	White	200	**111-0365**
With knitted headbands and anti-fog seal	-	White	200	**113-0347**

Cleanroom face masks, KIMTECH PURE* M3, PE/BiCoSof™
Kimberly-Clark

111-0050

111-0151

Continued on next page

Continued from previous page

Suitable for Class 10, ISO 4, M2.5 cleanrooms.

- Outer layer of apertured PE film protects from contamination
- Excellent breathability with filtration of 99% at 0,5 µm
- Inner facing made of white BiCoSof™ and fully enclosed, soft, malleable aluminium nosepiece

Packaging: 50 per bag, 6 or 10 bags per case.

Type	Colour	Pk	Cat. No.
With earloops	White	500	**111-0050**
With ties	White	500	**113-0344**
Pouch style with headband	White	300	**111-0151**

Cleanroom face veils, KIMTECH PURE* M7, PE
Kimberly-Clark

Suitable for cleanrooms ISO class 7 or higher.

Single use personal veil made from apertured PE film, with knitted headbands or snap fasteners.

- Designed to fit most garment systems
- Intended for use in cleanrooms where reusable face veils are currently worn

Packaging: Packed 25 veils per double bag, 6 bags per case.

Type	Colour	Pk	Cat. No.
With snaps	White	150	**113-0929**
With headband	White	150	**111-0384**

Cleanroom face masks, BioClean 100™, PP
Nitritex

Suitable for use in Class 10, ISO 4 or M2.5 cleanrooms.

3-ply tie on face masks made from ultra-low particulate non woven PP.

- Average Particle Count: 19/minute (particle size: 0,2 - 5,0 µm)
- Particle Filtration Efficiency (PFE): 98% >0,5 µm
- Available sterile or non sterile

W×H: 210×90 mm

ASTM F51-68

Packaging: Anti-static and silicone-free.

Type	Colour	Pk	Cat. No.
With ties	White	800	**113-2251**
With ties, sterile	White	500	**113-2250**

Cleanroom face masks, BioClean DB™, PE
Nitritex

Suitable for use in Class 10, ISO 4, M2.5 environments.

The sterile pouch style mask has knitted headbands and all seams are ultrasonically bonded. The mask has inner and outer facing layers constructed of spunbond non-woven polyester with the middle filter layer of meltblown polyester.

- Patented spacer maintains a clear breathing space for the wearer, improving the overall comfort and ease of breathing. Plastic coated, soft malleable steel nose bridge is fully enclosed
- Particle filtration efficiency: 0,3 µm 98,2%; bacteria filtration efficiency: 3,0 µm 97,9%
- Available with or without integral neck guard to close the breach in protection between the coverall and throat of the wearer

Packaging: 1 mask per inner bag; 20 inner bags per outer bag; 10 outer bags per carton (200 pieces).

Type	Colour	Pk	Cat. No.
Without neck guard	White	200	**113-0782**
With neck guard	White	200	**113-0783**

Cleanroom beard covers, VWR Basic, SPP

The VWR Basic SPP beard covers are manufactured from a strong, lightweight, and breathable spunbonded polypropylene (SPP) fabric, which protects against dirt, grime, and certain dry particulates in non hazardous environments. This garment is ideal for less critical areas or pre-gowning entry rooms. It is tested and manufactured in an ISO Certified facility and lot controlled and validated through independent lab testing.

- Lightweight and breathable first line barrier protection

Diameter (stretched): 406 mm

Type	Colour	Pk	Cat. No.
With latex	White	1.000	**113-1463**
Latex-free	White	1.000	**113-1464**

Beard covers, PP

Comfortable beard cover made from non woven PP. For non critical applications.

- Elasticated bands
- With welded seams
- Latex-free

Density: 12 g/m²

Colour	Pk	Cat. No.
White	100	**113-0712**

Cleanroom bouffant caps, VWR Basic, SPP

The VWR Basic SPP bouffant caps are manufactured from a strong, lightweight, and breathable spunbonded polypropylene (SPP) fabric, which protects against dirt, grime, and certain dry particulates in non hazardous environments. This garment is ideal for less critical areas or pre-gowning entry rooms. It is tested and manufactured in an ISO Certified facility and lot controlled and validated through independent lab testing.

- Lightweight and breathable first line barrier protection

Type	Ø (mm)	Colour	Pk	Cat. No.
Latex-free	530	White	1.000	**113-1459**
Latex-free	610	White	1.000	**113-1460**
With latex	530	White	1.000	**113-1461**
With latex	610	White	1.000	**113-1462**

Bouffant caps, PP

Bouffant caps made from non woven PP.

- Latex-free
- Elasticated band

Density: 12 g/m²

Packaging: Supplied in boxes or bags.

Ø (mm)	Colour	Packed	Pk	Cat. No.
530	White	Bag	100	**113-0700**
530	White	Box	100	**113-0702**
530	Blue	Box	100	**113-0703**
530	Green	Box	100	**113-0704**
610	White	Bag	100	**113-0701**
610	Blue	Bag	100	**113-0971**
610	Green	Bag	100	**113-0972**

Bouffant caps with clip, PP

Bouffant caps made from non woven PP. For non critical applications.

- Latex-free
- Two elasticated bands (one elasticated band: 113-0708)

Density: 12 g/m²

Ø (mm)	Colour	Packed	Pk	Cat. No.
500	White	Bag	100	**113-0708**
500	White	Box	250	**113-0705**
500	Blue	Box	250	**113-0706**
500	Green	Box	250	**113-0707**
500	Red	Box	250	**113-0973**
500	Yellow	Box	250	**113-0974**

Bouffant caps with visor, PP

Bouffant caps made from non woven PP. For non critical applications.

- With visor (white or blue)
- Latex-free
- Available with mesh cap for use with long hair

Density: 12 g/m²

Packaging: In bags.

Type	Ø (mm)	Colour	Pk	Cat. No.
Standard	510	White	100	**113-0709**
Standard	510	Blue	100	**113-0710**
For long hair	510	White	100	**113-0711**

Bouffant caps, PP, detectable

These detectable caps made of non woven polypropylene provide an effective way to cover the hair when working in hygienic environments.

- Increased detectability thanks to foil strip
- With two elastic bands for improved fit

Weight: 10 g/m²

Ø (mm)	Colour	Pk	Cat. No.
530	Blue	1.000	**113-1578**
610	Blue	1.000	**113-1579**

Cleanroom hoods, KIMTECH PURE* A5
Kimberly-Clark

Suitable for use in Class 100, ISO 5, M3,5 cleanrooms.

These hoods are made of breathable SMS fabric that adds a cloth-like feel. They are available in a standard design with ties or with an integrated face mask.

- 25 times more breathable than other leading brands
- Filters 94% of particles as small as 0,5 µm
- Pull-down ties in the back to assist in the gowning process
- No gaps between hood and mask ensures exhaled air is filtered
- Vacuum packed for added sterility assurance

Packaging: Double bagged.

Type	Colour	Pk	Cat. No.
Sterile, with ties	White	100	**113-1527**
Sterile, with integrated mask	White	75	**113-7732**

Sleeve protectors, PP/PE

Sleeve protector made from non woven PP coated with PE.

- Waterproof
- With welded elasticated cuffs

Ø×L: 200×400 mm

Density: 48 g/m²

Length (mm)	Colour	Pk	Cat. No.
400	White	100	**113-0717**

Sleeve protectors, LDPE/LLDPE

Sleeve protectors made from 65% LDPE and 35% LLDPE.

- Excellent resistance to most corrosive chemicals
- Elasticated cuffs
- Two colours available

Ø×L: 200×400 mm

Length (mm)	Colour	Pk	Cat. No.
400	White	100	**113-0718**
400	Blue	100	**113-0719**

Cleanroom sleeve protectors, VWR Advanced, SF

VWR Advanced SF sleeve protectors are manufactured from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film. Tested and manufactured in an ISO Certified facility under stringent process controls. Lot controlled and validated through independent lab testing.

- Elastic cuffs, with sonically welded seams
- Durable fabric with good breathability and water transmission rate
- Significant fluid and particle barrier
- Particle shedding: Level II Helmke drum classification
- Soft, cloth-like fabric

Length (mm)	Colour	Pk	Cat. No.
495	White	300	**113-1194**
546	White	300	**113-1193**

Sleeve protectors, BioClean-D™, Clean-Tough™
Nitritex

Suitable for use in Class 10, ISO 4, M2,5 environments.

These extra long BioClean-D™ disposable sleeve covers are made from Clean-Tough™ fabric, which is spunbonded non woven PP laminated with a film of PE. This fabric allows comfort and flexibility during use and protection against fine sprays and particles.

- Lightweight, low linting and hard-wearing material
- Elasticated arms and cuffs
- Available as sterile or non sterile version
- A unique barcode on the outer carton (ITF-14) allows automatic data entry into Stock Control Systems

Type PB [6]; Cat. III

Packaging: Sterile version: One pair per sealed plastic bag, 15 sealed plastic bags (30 pieces) per sealed outer bag, six outer bags (30 pieces) per sealed carton liner, one carton liner per carton (180 pieces / 90 pairs).
Non sterile version: 15 pairs per sealed inner plastic bag, one inner bag per sealed outer bag, six outer bags of 15 pairs per sealed carton liner, one carton liner per carton (90 pairs).

Type	Length (mm)	Colour	Pk	Cat. No.
Non sterile	500	White	180	**113-8034**
Sterile	500	White	90 PAIR	**113-8035**

Sleeve protectors, Tyvek® 1431 N
DuPont®

This anti-static sleeve protector is only recommended for protection against dirt from non hazardous materials.

- Easily recyclable (can also be incinerated)
- Antistatic treatment on both sides
- One size fits all

Density: 41 g/m^2

EN 1149-5, Cat. I

Length (mm)	Colour	Pk	Cat. No.
500	White	200	**113-0494**

Chemical resistant sleeve protectors, Tychem® C and Tychem® F

DuPont®

Tychem® C and Tychem® F sleeve protectors provide a reliable barrier for use in applications in the chemical industry, in the disposal of hazardous substances or when working with oil. Tychem® C (yellow) provides a barrier against concentrated inorganic chemicals and Tychem® F (grey), a barrier against organic chemicals and highly concentrated inorganic chemicals.

- High level of protection yet lightweight
- Free of halogen compounds, making them easy to dispose of
- High quality protective clothing material: Chemical barriers and physical material properties have been tested by independent institutes

Type PB [3], Cat. III

Length (mm)	Colour	Pk	Cat. No.
500	Yellow	50	**113-0879**
500	Grey	50	**113-0883**

Shoe covers, CPE

Shoe covers made from 65% Low Density PE (LDPE) and 35% Linear Low Density PE (LLDPE).

- Repellent against moisture and dirt
- No seam under the foot

L×H: 360×150 mm

Size	Colour	Pk	Cat. No.
U*	Blue	1,000	**113-0743**
U*	White	1,000	**113-0746**

*One size fits all

Shoe covers, PP

Shoe covers made from non woven PP.

- No seam under the foot
- Opening when stretched: 300 mm

L×H: 400×180 mm

Density: 40 g/m^2

Size	Colour	Pk	Cat. No.
U*	White	1,000	**113-0742**

*One size fits all

Shoe covers, PP

Non woven PP with a CPE laminated sole.

- No seam under the foot

L×H: 410×160 mm

Size	Colour	Pk	Cat. No.
U*	White	200	**113-0744**
U*	Blue	200	**113-0745**

*One size fits all

Shoe covers, non woven PP

Over shoes made from non woven PP.

- Laminated

Opening when stretched: 290 mm

L×H: 430×170 mm

Size	Colour	Pk	Cat. No.
U*	Blue	300	**113-0747**

*One size fits all

Shoe covers, non woven PP/PE

Over shoes made from non woven polypropylene.

- PE laminated anti-skid sole

Opening when stretched: 290 mm

L×H: 400×170 mm

Size	Colour	Pk	Cat. No.
U*	White	300	**113-0749**

*One size fits all

Shoe covers, non woven PP with latex pattern

Overshoes made from non woven polypropylene. With latex pattern.

- Anti-skid

L×H: 460×170 mm

Size	Colour	Pk	Cat. No.
U*	Blue	1,000	**113-0748**

*One size fits all

Shoe covers, Tyvek® 1431 N
DuPont®

These shoe covers are recommended for protection against non hazardous dirt and materials. They include elastication around the ankle.

- Easily recyclable (can also be incinerated)
- Two styles available: With or without grained and therefore skid-resistant polyethylene sole

Density: 41 g/m²

Type	Size	Colour	Pk	Cat. No.
Regular	U*	White	400	**113-0491**
Skid-resistant	36 - 42	White	200	**113-0492**
Skid-resistant	42 - 46	White	200	**113-0493**

*One size fits all

Cleanroom shoe covers, non skid, VWR Advanced, SF

VWR Advanced SF shoe covers are manufactured from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film. Tested and manufactured in an ISO Certified facility under stringent process controls. Lot controlled and validated through independent lab testing.

- High coefficient of friction to provide excellent traction
- Water resistant
- Durable fabric with good breathability and water transmission rate
- Significant fluid and particulate barrier
- Particle shedding: Level II Helmke drum classification
- Soft, cloth-like fabric

Length: 394 mm (U*), 432 mm (XL), 470 mm (XXL)

Type	Size	Colour	Pk	Cat. No.
Static dissipative	U*	Blue	300	**113-1377**
Static dissipative	XL	Blue	300	**113-1378**
Standard	U*	Blue	300	**113-1382**
Standard	XL	Blue	300	**113-1383**
Standard	XXL	Blue	300	**113-1384**

*One size fits all

Fluid-impervious cleanroom boot covers, VWR Maximum, SF

VWR Maximum SF boot covers are the cleanest and most durable within the entire VWR clothing line. Made from spunbonded polypropylene fabric (SPP) with breathable polyethylene film coating, these garments have been designed to optimise barrier protection, cleanliness, and comfort properties. Tested and manufactured in an ISO Certified facility under stringent process controls. Lot controlled and validated through independent lab testing.

- Non skid and anti-static
- Fluid-impervious, sealed seams to repel water
- Superior coefficient of friction to ensure maximum traction
- Maximum skid resistance on wet and smooth surfaces

Length: 381 mm (U*), 419 mm (XL), 470 mm (XXL)

Size	Colour	Pk	Cat. No.
XL	Blue	100 PAIR	**113-1184**
XXL	Blue	100 PAIR	**113-1185**
U*	White	100 PAIR	**113-1186**

*One size fits all

Cleanroom boot covers, non skid, VWR Maximum, SF

VWR Maximum SF boot covers are the cleanest and most durable within the entire VWR clothing line. Made from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film, these garments have been designed to optimise barrier protection, cleanliness, and comfort properties. Tested and manufactured in an ISO Certified facility under stringent process controls. Lot controlled and validated through independent lab testing.

- Non skid
- Impervious material
- Superior coefficient of friction to ensure maximum traction
- Maximum skid resistance on wet and smooth surfaces
- Clean, low-linting fabric

Length: 286 mm (M), 356 mm (U*), 381 mm (XL)

Type	Size	Colour	Pk	Cat. No.
Without ankle ties	M	White	100 PAIR	**113-1187**
Without ankle ties	L	White	100 PAIR	**113-1188**
Without ankle ties	XL	White	100 PAIR	**113-1189**
With ankle ties	M	White	100 PAIR	**113-1192**
With ankle ties	XL	White	100 PAIR	**113-1191**
With ankle ties	U*	White	100 PAIR	**113-1190**

*One size fits all

Cleanroom shoe covers, non skid, VWR Maximum, SF

VWR Maximum SF shoe covers are the cleanest and most durable within the entire VWR clothing line. Made from spunbonded polypropylene fabric (SPP) coated with breathable polyethylene film, these garments have been designed to optimise barrier protection, cleanliness, and comfort properties. Tested and manufactured in an ISO Certified facility under stringent process controls. Lot controlled and validated through independent lab testing.

- Non skid and anti-static
- Fluid impervious
- Superior coefficient of friction to ensure maximum traction
- Maximum skid resistance on wet and smooth surfaces
- Clean, low-linting fabric

Length: 359 mm (U*), 292 mm (M), 324 mm (L), 381 mm (XL)

Size	Colour	Pk	Cat. No.
M	White	200	**113-1371**
L	White	200	**113-1372**
XL	White	200	**113-1370**
U*	White	200	**113-1369**
M	Blue	200	**113-1375**
L	Blue	200	**113-1376**
XL	Blue	200	**113-1374**
U*	Blue	200	**113-1373**

*One size fits all

Fluid-impervious cleanroom shoe covers, Butterfly-Style, VWR Maximum, SF

VWR Maximum SF shoe covers are the cleanest and most durable within the entire VWR clothing line. Made from spunbonded polypropylene fabric (SPP) with breathable polyethylene film coating, these garments have been designed to optimise barrier protection, cleanliness, and comfort properties. Tested and manufactured in an ISO Certified facility under stringent process controls. Lot controlled and validated through independent lab testing.

- Non skid and anti-static
- Fluid and particle impervious, sealed seams to repel water
- Superior coefficient of friction to ensure maximum traction
- Maximum skid resistance on wet and smooth surfaces
- Clean, low-linting fabric

Length: 394 mm (U*), 432 mm (XL), 483 mm (XXL)

Size	Colour	Pk	Cat. No.
U*	Blue	150	**113-1366**
XL	Blue	150	**113-1367**
XXL	Blue	150	**113-1368**
U*	White	150	**113-1379**
XL	White	150	**113-1380**
XXL	White	150	**113-1381**

*One size fits all

Cleanroom boot covers, BioClean-D™, Clean-Tough™
Nitritex

Suitable for use in Class 10, ISO 4, M2,5 environments.

These diposable boot covers are made of BioClean-D™, a lightweight, low linting and hard-wearing fabric (PP laminated with a film of PE) which provides maximum comfort and protects against against fine sprays and particles.

- Slip-resistant Safe-Step™ sole enhances wearer safety
- Available as sterile or non sterile version
- Elasticated top with secure ties
- A unique barcode on the outer carton (ITF-14) allows automatic data entry into Stock Control Systems

Length: 400 mm

Type PB [6], Cat. III

Packaging: Sterile Version: One pair per sealed plastic bag, 15 sealed bags per sealed outer bag, five sealed bags of 15 pairs per sealed carton liner, one carton liner per carton (75 pairs).
Non sterile version: 5 bags of 30 pieces per sealed carton liner; one carton liner per carton (150 pieces).

Type	Size	Colour	Pk	Cat. No.
Non sterile	400×480	White	75 PAIR	**113-0814**
Sterile	400×480	White	75 PAIR	**113-2265**

Cleanroom shoe covers, BioClean SafeStep™, PP
Nitritex

Suitable for use in Class 100, ISO 5, M3,5 environments.

These shoe covers are made of a non woven PP fabric with an elastomer coating. They are processed in a cleanroom environment to ensure compatibility with ISO Class 5 operating conditions.

- Slip-resistant
- Low levels of particulate shedding
- Elasticated

Length: 400 or 455 mm
Height: 170 mm
Thickness: 0.14 mm
Elongation: max. 120%

Packaging: 100 pieces per sealed inner bag; one inner bag per sealed outer bag; four outer bags per carton (400 pieces).

Size (mm)	Colour	Pk	Cat. No.
400	White	400	**113-2253**
455	White	400	**113-2252**

Cleanroom boot covers, KIMTECH PURE* A5
Kimberly-Clark

Suitable for use in Class 100, ISO 5, M3,5 environments.

The sterile KIMTECH PURE* cleanroom boot covers are made of SMS (Spunbond Meltblown Spunbond) material that gives them a cloth-like feeling. Available with standard vinyl sole or with wrap-around vinyl foot.

- Wrap-around Vinyl foot is seamed above the floor line to reduce risk of liquid penetration and trip hazards
- Tunneled elastic and bound seams
- Two extra-long ties
- Vacuum packed in pairs for added sterility assurance

Type	Size	Colour	Pk	Cat. No.
Standard vinyl sole				
Standard vinyl sole	U*	White	100 PAIR	**113-7736**
Standard vinyl sole	S/M	White	100 PAIR	**113-7735**
Standard vinyl sole	XL	White	100 PAIR	**113-7737**
Wrap-around vinyl foot				
Wrap-around vinyl foot	U*	White	100 PAIR	**113-1227**
Wrap-around vinyl foot	XL/XXL	White	100 PAIR	**113-7734**

*One size fits all

Cleanroom boot covers, Tyvek®
DuPont®

Boot covers made from Tyvek® (1431 N, anti-static) are recommended for protection against non hazardous dirt and materials.

- Easily recycled (can also be incinerated)
- With or without grained polyethylene sole
-
- Antistatic treatment on both sides

Density: 41 g/m²

L×W: 420×480 mm

Type	Size	Colour	Pk	Cat. No.
Regular	U*	White	200	**113-0489**
Skid-resistant	U*	White	200	**113-0490**

*One size fits all

Chemical resistant boot covers, Tychem® F
DuPont®

These knee-length boot covers are made of Tychem® F consisting of Tyvek® substrate laminated to a film with a polymeric coating. They are recommended for use when handling organic acids, alkalis, and for bioprotection.

- Elasticated at the top and with laces for tightening
- Skid resistant sole
- Sole partially stitched: splash proof, not fully liquid tight
- Antistatic treatment (inside only)
- One size fits all

Density: 117 g/m²

Type PB [3]; Cat. III

Size (mm)	Colour	Pk	Cat. No.
480×420	Grey	50	**113-0968**

Shoe cover dispenser, BootieButler®, Protexer

Stainless steel, painted steel and high impact ABS plastic

This shoe cover dispenser is designed for low to moderate volume areas where safety, speed and compliance are critical. Its unique, sturdy design allows workers to put on shoe covers quickly, easily and safely.

- Easy to load up to 55 pairs of shoe covers at a time
- Hands-free operation
- Reduced application time - four times faster
- Increased worker safety and compliance
- Easy to clean
- Small size for temporary installations and easy transport between job sites

Weight: 11.4 kg

W×D×H (mm)	Colour	Pk	Cat. No.
406×711×279	White/Grey	1	**113-6836**

Type	Size	Colour	Pk	Cat. No.
Shoe covers for dispenser, BootieButler®				
"Super Bootie", PP, waterproof and super anti-skid	U*	White	1,200 PAIR	**113-1998**

Shoe cover removers, Protexer

Stainless steel, steel and ABS plastic

These shoe cover removers are designed for areas that need to eliminate cross-contamination risks. They can improve safety and productivity by automatically removing shoe covers without the need to bend over. They are suitable for use in industrial facilities, cleanrooms, animal labs, energy, food processing and healthcare.

- Hands-free operation
- High capacity: Up to 1000 shoe covers
- Optional HEPA filtration

Description	W×D×H (mm)	Colour	Pk	Cat. No.
Normal capacity shoe cover remover (up to 150 pieces)	1000×1200×533	White	1	**113-6839**
High capacity shoe cover remover (up to 1000 pieces)	1000×1200×900	White	1	**113-6838**

Description	Pk	Cat. No.
Filter bags		
Replacement filter bags for shoe cover remover	1	**113-6837**

Work jackets

Durable jackets made of 65% polyester and 35% sanforized cotton, which prevents the clothing from shrinking in the laundry.

- Two breast pockets with press stud, mobile phone pocket, two side pockets, three inside pockets
- Press stud closure
- Sleeves and jacket bottom are adjustable
- Back folds for improved freedom of movement

Weight: 245 g/m²

Colour	Clothing size	Pk	Cat. No.
Grey/Black	36 (men)	1	113-07365
Grey/Black	38 (men)	1	113-07366
Grey/Black	40 (men)	1	113-07367
Grey/Black	42 (men)	1	113-07368
Grey/Black	44 (men)	1	113-07369
Grey/Black	46 (men)	1	113-07370
Grey/Black	48 (men)	1	113-07371
Blue/Dark Blue	36 (men)	1	113-07372
Blue/Dark Blue	38 (men)	1	113-07373
Blue/Dark Blue	40 (men)	1	113-07374
Blue/Dark Blue	42 (men)	1	113-07375
Blue/Dark Blue	44 (men)	1	113-07376
Blue/Dark Blue	46 (men)	1	113-07377
Blue/Dark Blue	48 (men)	1	113-07378
Blue/Grey	36 (men)	1	113-06729
Blue/Grey	38 (men)	1	113-06730
Blue/Grey	40 (men)	1	113-06731
Blue/Grey	42 (men)	1	113-06732
Blue/Grey	44 (men)	1	113-06733
Blue/Grey	46 (men)	1	113-06734
Blue/Grey	48 (men)	1	113-06735

Work trousers

Durable trousers made of 65% polyester and 35% sanforized cotton, which prevents the clothing from shrinking in the laundry.

- Waistband with belt loops and button
- Two front and back pockets, large side pocket with press stud, small inside pocket
- Pockets for folding rule and mobile phone

Weight: 245 g/m²

Colour	Clothing size	Pk	Cat. No.
Grey/Black	36 (men)	1	113-07379
Grey/Black	38 (men)	1	113-07380
Grey/Black	40 (men)	1	113-07381
Grey/Black	42 (men)	1	113-07382
Grey/Black	44 (men)	1	113-07383
Grey/Black	46 (men)	1	113-07384
Grey/Black	48 (men)	1	113-07385
Blue/Dark Blue	36 (men)	1	113-07386
Blue/Dark Blue	38 (men)	1	113-07387
Blue/Dark Blue	40 (men)	1	113-07388
Blue/Dark Blue	42 (men)	1	113-07389
Blue/Dark Blue	44 (men)	1	113-07390
Blue/Dark Blue	46 (men)	1	113-07391
Blue/Dark Blue	48 (men)	1	113-07392
Blue/Grey	36 (men)	1	113-06818
Blue/Grey	38 (men)	1	113-06819
Blue/Grey	40 (men)	1	113-06820
Blue/Grey	42 (men)	1	113-06821
Blue/Grey	44 (men)	1	113-06822
Blue/Grey	46 (men)	1	113-06823
Blue/Grey	48 (men)	1	113-06824

Work overalls with bib and braces

Versatile overalls made of 65% polyester and 35% cotton. The material is sanforized which prevents the clothing from shrinking in the laundry.

- Elasticated braces, large bib pocket
- Waist adjustable by button, elasticated leg sides
- Two front and back pockets, large side pocket with press stud, small inside pocket
- Pockets for folding rule and mobile phone

Weight: 245 g/m²

Colour	Clothing size	Pk	Cat. No.
Grey/Black	36 (men)	1	**113-05895**
Grey/Black	38 (men)	1	**113-05896**
Grey/Black	40 (men)	1	**113-05897**
Grey/Black	42 (men)	1	**113-05898**
Grey/Black	44 (men)	1	**113-05899**
Grey/Black	46 (men)	1	**113-05900**
Grey/Black	48 (men)	1	**113-05901**
Blue/Dark Blue	36 (men)	1	**113-07393**
Blue/Dark Blue	38 (men)	1	**113-07394**
Blue/Dark Blue	40 (men)	1	**113-07395**
Blue/Dark Blue	42 (men)	1	**113-07396**
Blue/Dark Blue	44 (men)	1	**113-07397**
Blue/Dark Blue	46 (men)	1	**113-07398**
Blue/Dark Blue	48 (men)	1	**113-07399**
Blue/Grey	36 (men)	1	**113-06773**
Blue/Grey	38 (men)	1	**113-06774**
Blue/Grey	40 (men)	1	**113-06775**
Blue/Grey	42 (men)	1	**113-06776**
Blue/Grey	44 (men)	1	**113-06777**
Blue/Grey	46 (men)	1	**113-06778**
Blue/Grey	48 (men)	1	**113-06779**

High visibility waistcoats, C470/C472/C474

Portwest

C470

C472

C474

These warp knit polyester waistcoats provide great visibility.
Model C470 features two reflective bands across the body and additional bands that extend from the shoulder to the body band.
Model C472 offers all the characteristics of C470 with only one reflective band across the body.
Model C474 offers all the characteristics of C470 without the additional shoulder bands.

- Adjustable Velcro® fastening
- Reflective tape with a width of 5 cm
- Dual sizing system gives greater flexibility on size
- Deeper armholes: Can be worn comfortably over a jacket or storm coat

EN 471 (2-2)

Model	Colour	Clothing size	Pk	Cat. No.
C470	Hi-Vis Yellow	S/M	1	**113-6986**
C470	Hi-Vis Yellow	L/XL	1	**113-6985**
C470	Hi-Vis Yellow	XXL/XXXL	1	**113-6987**
C470	Hi-Vis Yellow	4XL/5XL	1	**113-6984**
C470	Hi-Vis Orange	S/M	1	**113-8039**

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Model	Colour	Clothing size	Pk	Cat. No.
C470	Hi-Vis Orange	L/XL	1	**113-8038**
C470	Hi-Vis Orange	XXL/XXXL	1	**113-8036**
C470	Hi-Vis Orange	4XL/5XL	1	**113-8037**
C472	Hi-Vis Yellow	S/M	1	**113-6989**
C472	Hi-Vis Yellow	L/XL	1	**113-6988**
C472	Hi-Vis Yellow	XXL/XXXL	1	**113-6990**
C474	Hi-Vis Yellow	S/M	1	**113-6993**
C474	Hi-Vis Yellow	L/XL	1	**113-6992**
C474	Hi-Vis Yellow	XXL/XXXL	1	**113-6994**
C474	Hi-Vis Yellow	4XL/5XL	1	**113-6991**
C474	Hi-Vis Orange	M	1	**113-8050**
C474	Hi-Vis Orange	XL	1	**113-8049**
C474	Hi-Vis Orange	XXL/XXXL	1	**113-8051**
C474	Hi-Vis Orange	4XL/5XL	1	**113-8048**

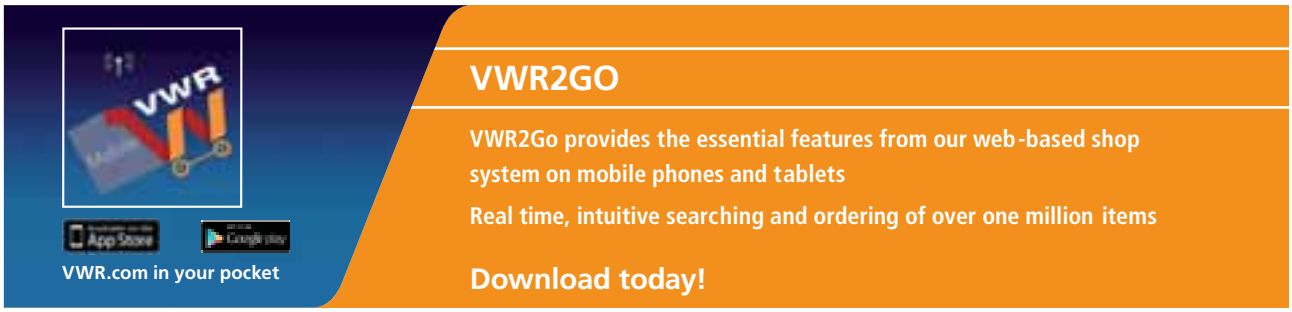
Polo shirt, Classic B185
Portwest

Polo shirt made of 100% polyester.

- Three button placket
- Rib knit collar and cuffs

Weight: 185 g/m²

Colour	Clothing size	Pk	Cat. No.
Navy	S	1	**113-6890**
Navy	M	1	**113-6889**
Navy	L	1	**113-6888**
Navy	XL	1	**113-6891**
Navy	XXL	1	**113-6892**



Cleanroom dispensers for personal protective equipment

Stainless steel, electrolytically polished

These wall-mounted dispensers are designed to provide clean and efficient dispensing and storage. They are suitable for gloves, hairnets, facemasks and booties in the cleanroom industries, such as pharma, biotech, medical devices, microelectronics and nanotechnology.

- Eliminate particle buildup
- Smooth curved opening for easy "snag-free" pull out
- Feature built-in trap bins, see-through slots, and top lid for easy refilling

ISO certified.

Note - Either two 134-0502 or a 134-0504 can be mounted above 134-0486 for a complete dispensing / disposal system.

Description	W×D×H (mm)	Pk	Cat. No.
Cleanroom disposable dispenser with one compartment	200×205×600	1	**113-8052**
Cleanroom disposable dispenser with two compartments	400×205×600	1	**113-7992**
Cleanroom disposable dispenser with three compartments	600×205×600	1	**134-0503**
Cleanroom disposable dispenser with four compartments	800×205×600	1	**134-0504**
Cleanroom disposable dispenser with two compartments (long version)	400×220×1000	1	**134-0502**

Disposal cabinet

Stainless steel, electrolytically polished

This disposing cabinet complements the glove dispensers. It features waste openings, doors and levelling feet.

ISO certified.

Note - Either a two compartment (134-0502) or a four compartment (134-0504) dispenser can be attached to the disposal cabinet, with the addition of a frame (134-0487), for a complete free standing dispensing / disposal system.

Delivery information: Supplied with two large plastic bins.

Colour	W×D×H (mm)	Pk	Cat. No.
Grey	800×430×900	1	**134-0486**

Pk	Cat. No.
Frame for disposal cabinet	
1	**134-0487**

VWR COLLECTION

SELECTED FOR YOU

Dispensers for personal protective equipment

ABS

These containers are designed for storing personal safety apparatus in the workplace. They can be mounted using adhesive fittings or can be screwed to the wall.

- Protection against dirt, dust and dampness
- Patented opening allows for quick removal of the PPE in case of emergency
- Available in three sizes

Description	W×D×H (mm)	Colour	Pk	Cat. No.
Mini				
Eye protection	236×120×120	Blue	1	**111-0000**
Eye protection	236×120×120	Transparent	1	**111-0021**
Hair nets	236×120×120	Blue	1	**111-0014**
Hair nets	236×120×120	Transparent	1	**111-0010**
Hand protection	236×120×120	Blue	1	**111-0025**
Hand protection	236×120×120	Transparent	1	**111-0013**
Midi				
Ear protection	236×125×225	Blue	1	**111-0002**
Ear protection	236×125×225	Transparent	1	**111-0161**
Respirator	236×125×225	Blue	1	**111-0022**
Respirator	236×125×225	Transparent	1	**111-0015**
Hair nets	236×125×225	Blue	1	**111-0019**
Hair nets	236×125×225	Transparent	1	**111-0162**
Maxi				
Helmet	236×200×315	Blue	1	**111-0003**
Helmet and eye protection	236×200×315	Blue	1	**111-0163**

Safety spectacles dispensers, SecuBox Maxi12 and Midi4

ABS

These dispensers can be used to store visitor spectacles.

- Easy access
- Protects against dust

SecuBox Maxi12 and Midi4 bear the international trade association sign 'wear safety spectacles'.

Description	Colour	Pk	Cat. No.
Midi4 for 4 spectacles	Blue	1	**111-3716**
Midi4 for 4 spectacles	Black	1	**111-3717**
Maxi12 for 12 spectacles	Blue	1	**111-3715**

VWR COLLECTION

SELECTED FOR YOU

Glove box holders

Epoxy coated steel wire

These racks can hold most major brands of glove boxes.

- Available as a single box holder or the three box holder
- Easily mounted on the wall
- Screws are included

Colour: White

Description	W×D×H (mm)	Pk	Cat. No.
Glove box holder for one box	140×108×208	1	**211-0343**
Glove box holder for three boxes	250×108×454	1	**211-0344**

VWR COLLECTION

SELECTED FOR YOU

Glove box holder, anti-microbial

PS with Microban® additive

This glove box dispenser is suitable for use in cleanrooms, hospitals, and microbiological work areas. The versatile dispenser is intended for wall-mounting and can accommodate one single box.

- Microban® additive prevents growth of moulds and bacteria
- Durable resin is resistant to harsh cleaning solutions
- Universal size to fit different glove box manufacturers
- Modular design allows stacking to save space

W×D×H (mm)	Colour	Pk	Cat. No.
254×156×97	Blue	3	**211-0371**

Glove box holders
Heathrow Scientific

Acrylic

These holders are constructed from tough, clear acrylic so that you can clearly see the size and material of the gloves within. Each holder includes a polyester foam insert to securely hold a range of glove box sizes.

- Models available which hold one, two, or three glove boxes

Delivery information: Wall-mount screws included.

Description	Pk	Cat. No.
Glove box holder for 1 box	1	**113-0885**
Glove box holder for 2 boxes	1	**113-0886**
Glove box holder for 3 boxes	1	**113-0887**

Shoe cover dispenser

Aluminium-plastic composite panels, automated

This shoe cover dispenser allows the user to enter a clean area without taking off his/her shoes. The machine automatically puts on a shoe cover. Press your foot down firmly in the middle of the box and the shoe cover will automatically snap around your foot. It can be used in hospitals, laboratories, factories, leisure facilities and cleanrooms.

- Holds up to 50 shoe covers
- User friendly and easy to refill
- PE and non woven shoe covers available

Description	W×D×H (mm)	Colour	Pk	Cat. No.
Shoe cover dispenser	280×180×520	Silver	1	**113-0608**

Type	Size	Colour	Pk	Cat. No.
Overshoes				
PE	U*	Blue	4,000	**113-0609**
Non woven	U*	Blue	2,000	**113-0611**

* One size fits all

Dispensers for safety equipment, Clearly Safe®
Heathrow Scientific

Translucent acrylic

- Ergonomically angled for easy dispensing
- Hinged lid protecting contents from dust and debris
- Set on counter or wall-mount (screws included)

Description	W×D×H (mm)	Colour	Pk	Cat. No.
For soft covers (bouffant caps, beard covers, shoe covers) with flip open cover	203×203×406	Translucent	1	**113-6389**
For 20 safety spectacles with flip open cover	203×203×406	Translucent Blue	1	**113-6387**
For 200 pairs of foam earplugs with flip open cover	203×203×406	Translucent Green	1	**113-6388**

European standards for safety footwear

Safety footwear

EN ISO 20345: Highest protection. Toe caps tested to 200 joule. Classification S.

SB	Basic requirements for safety footwear met - 200 joule Protection
S1	200 joule Toe cap Protection. Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region.
S2	200 joule Toe cap Protection. Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region. Water penetration and water absorption resistance.
S3	200 joule Toe cap Protection. Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region. Water penetration and water absorption resisitance. Plus penetration resistance. Cleated outsole.
S4	200 joule Toe cap Protection. All rubber or all polymeric footwear with anti-static properties. Energy absorption of seat region.
S5	200 joule Toe cap Protection. All rubber or all polymeric footwear with anti-static properties. Energy absorption of seat region. Plus penetration resistance. Cleated outsole.
Slip resistant rating - one of:	
SRA	Tested on ceramic tile wetted with dilute soap solution
SRB	Tested on steel with glycerol
SRC	SRA + SRB

Additional safety features

Should these products offer some extra protective features then the appropriate symbol will be added i.e. a product that provides 200 joule impact protection, is anti-static and has a heat resistant outsole will be marked SB A HRO.

P	Penetration resistance offered by a steel midsole.
C	Conductive footwear.
A	Anti-static footwear.
HI	Insulation against heat.
CI	Insulation against cold.
E	Energy absorption of seat region.
WRU	Water penetration and absorption resistance.
HRO	Heat resistant to 300 °C.

Protective footwear

EN ISO 20346: Lower protection. Toe caps tested to 100 joule. Classified as P.

PB	Basic requirements for protective footwear met - 100 joule protection.
P1	100 joule Toe Cap Protection. Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region.
P2	100 joule Toe Cap Protection. Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region. Plus water penetration and water absorption resistance.
P3	100 joule Toe Cap Protection. Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region. Water penetration and water absorption resistance. Plus penetration resistance. Cleated outsole.
P4	100 joule Toe Cap Protection. All rubber or all polymeric footwear with anti-static properties. Energy absorption of seat region.
P5	100 joule Toe Cap Protection. All rubber or all polymeric footwear with anti-static properties. Energy absorption of seat region. Plus penetration resistance. Cleated outsole.

Occupational footwear

EN ISO 20347: not required to have a protective toe cap.

OB	Basic requirements met.
O1	Basic requirements plus: Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region.
O2	Basic requirements plus: Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region. Plus water penetration and absorption resistance.
O3	Basic requirements plus: Closed seat region (fully enclosed heel). Anti-static properties. Energy absorption of seat region. Water penetration and water absorption resistance. Plus penetration resistance. Cleated outsole.
O4	Basic requirements. All rubber or all polymeric footwear with anti-static properties. Energy absorption of seat region.
O5	Basic requirements. All rubber or all polymeric footwear with anti-static properties. Energy absorption of seat region. Plus penetration resistance. Cleated outsole.

ESD = Electro Static Discharge. ESD shoes protect electrostatically endangered components in sensitive workspaces and prevent sparks and explosions.

Sizing guide

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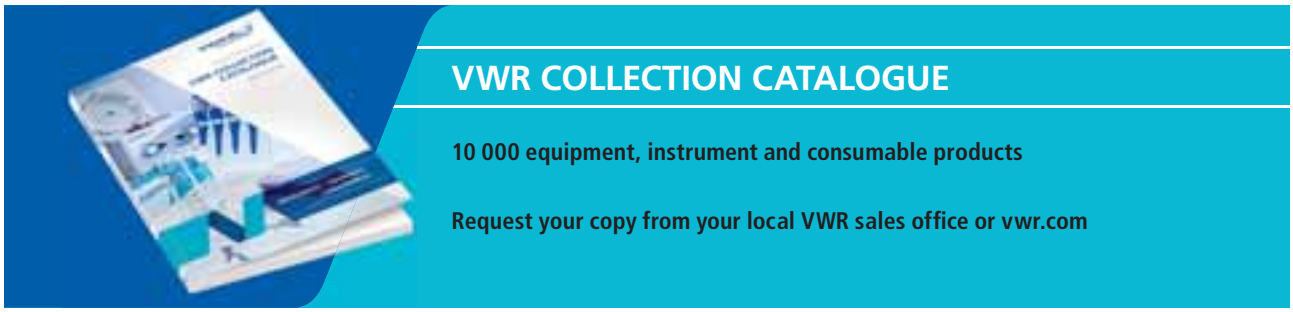
EU sizes	UK sizes
34.5	2
35	2.5
35.5	3
36	3.5
37	4
37.5	4.5
38	5
39	5.5
39.5	6
40	6.5
41	7
41.5	7.5
42	8
42.5	8.5
43	9
44	9.5
44.5	10
45	10.5
46	11
46.5	11.5
47	12
47.5	12.5
48	13
49	13.5



Occupational shoes, clogs, Top Clog Autoclavable

VWR International

Anti-static clogs made from thermoplastic material with a wide fitting, comfortable shape and a slip-resistant sole. Machine washable at 90 °C; autocavable at 135 °C

- Resistant to high temperature
- Energy absorption in the heel
- Side perforation for ventilation
- Anti-bacterial and anti-vibration injected insole
- Attached pivoting heelstrap

Colour: White, black, green, blue, pink or red

EN ISO 20347; OB, A, E, SRB

Shoe size	Pk	Cat. No.
White		
34/35	1 PAIR	**114-5000**
36/37	1 PAIR	**114-5001**
38/39	1 PAIR	**114-5002**
40/41	1 PAIR	**114-5003**
42/43	1 PAIR	**114-5004**
44/45	1 PAIR	**114-5005**
46/47	1 PAIR	**114-5006**
Black		
34/35	1 PAIR	**114-5007**
36/37	1 PAIR	**114-5008**
38/39	1 PAIR	**114-5009**
40/41	1 PAIR	**114-5010**
42/43	1 PAIR	**114-5011**
44/45	1 PAIR	**114-5012**
46/47	1 PAIR	**114-5013**
Green		
34/35	1 PAIR	**114-5014**
36/37	1 PAIR	**114-5015**
38/39	1 PAIR	**114-5016**
40/41	1 PAIR	**114-5017**
42/43	1 PAIR	**114-5018**
44/45	1 PAIR	**114-5019**
46/47	1 PAIR	**114-5020**
Blue		
34/35	1 PAIR	**114-5021**
36/37	1 PAIR	**114-5022**
38/39	1 PAIR	**114-5023**
40/41	1 PAIR	**114-5024**
42/43	1 PAIR	**114-5025**
44/45	1 PAIR	**114-5026**
46/47	1 PAIR	**114-5027**
Pink		
34/35	1 PAIR	**114-5028**
36/37	1 PAIR	**114-5029**
38/39	1 PAIR	**114-5030**
40/41	1 PAIR	**114-5031**
42/43	1 PAIR	**114-5032**
44/45	1 PAIR	**114-5033**
46/47	1 PAIR	**114-5034**
Red		
34/35	1 PAIR	**114-5035**
36/37	1 PAIR	**114-5036**
38/39	1 PAIR	**114-5037**
40/41	1 PAIR	**114-5038**
42/43	1 PAIR	**114-5039**
44/45	1 PAIR	**114-5040**
46/47	1 PAIR	**114-5041**

Occupational shoes, autoclavable clogs, Top Clogs

VWR International

Clogs without toecap made from thermoplastic material (SEBS). Machine washable at 90 °C; autoclavable at 135 °C.

- Resistant to high temperature
- Anti-static and non-slip
- Energy absorption in the heel
- Side perforation for ventilation
- Wide fitting and comfortable shape

EN ISO 20347; OB, A, E, SRA

Ordering information: Heel strap sold separately

Shoe size	Pk	Cat. No.
White		
34/35	1 PAIR	**114-3666**
36/37	1 PAIR	**114-3667**
38/39	1 PAIR	**114-3668**
40/41	1 PAIR	**114-3669**
42/43	1 PAIR	**114-3670**
44/45	1 PAIR	**114-3671**
46/47	1 PAIR	**114-3672**
Black		
34/35	1 PAIR	**114-3673**
36/37	1 PAIR	**114-3674**
38/39	1 PAIR	**114-3675**
40/41	1 PAIR	**114-3676**
42/43	1 PAIR	**114-3677**
44/45	1 PAIR	**114-3678**
46/47	1 PAIR	**114-3679**
Green		
34/35	1 PAIR	**114-3680**
36/37	1 PAIR	**114-3681**
38/39	1 PAIR	**114-3682**
40/41	1 PAIR	**114-3683**
42/43	1 PAIR	**114-3684**
44/45	1 PAIR	**114-3685**
46/47	1 PAIR	**114-3686**
Blue		
34/35	1 PAIR	**114-3687**
36/37	1 PAIR	**114-3688**
38/39	1 PAIR	**114-3689**
40/41	1 PAIR	**114-3690**
42/43	1 PAIR	**114-3691**
44/45	1 PAIR	**114-3692**
46/47	1 PAIR	**114-3693**
Pink		
34/35	1 PAIR	**114-3694**
36/37	1 PAIR	**114-3695**
38/39	1 PAIR	**114-3696**
40/41	1 PAIR	**114-3697**
42/43	1 PAIR	**114-3698**
44/45	1 PAIR	**114-3699**
46/47	1 PAIR	**114-3700**
Red		
34/35	1 PAIR	**114-3701**
36/37	1 PAIR	**114-3702**
38/39	1 PAIR	**114-3703**
40/41	1 PAIR	**114-3704**
42/43	1 PAIR	**114-3705**
44/45	1 PAIR	**114-3706**
46/47	1 PAIR	**114-3707**

Description	Pk	Cat. No.
Accessories		
Heel strap for Top Clogs	1	**114-3708**

Occupational shoes, clogs, Arrow, 8220/8230
Abeba

Anti-static clogs made from microfibre upper with leather heel patch.

- Foldable and adjustable heel strap
- Shock absorbent PU midsole
- Abrasion resistant and non slip PU sole
- Sanitised treatment reducing odour and germs

Colour: White/grey with floral motif or white/pink with floral motif

EN ISO 20347:2012; OB, A, SRA

Shoe size	Pk	Cat. No.
Model 8220: Smooth upper, white/grey		
35	1 PAIR	**114-3802**
36	1 PAIR	**114-3803**
37	1 PAIR	**114-3804**
38	1 PAIR	**114-3805**
39	1 PAIR	**114-3806**
40	1 PAIR	**114-3807**
41	1 PAIR	**114-3808**
42	1 PAIR	**114-3809**
43	1 PAIR	**114-3810**
Model 8230: Smooth upper, white/pink		
35	1 PAIR	**114-3811**
36	1 PAIR	**114-3812**
37	1 PAIR	**114-3813**
38	1 PAIR	**114-3814**
39	1 PAIR	**114-3815**
40	1 PAIR	**114-3816**
41	1 PAIR	**114-3817**
42	1 PAIR	**114-3818**
43	1 PAIR	**114-3819**

Safety shoes, clogs, Classic, 1000/1010
Abeba

Anti-static clog made from grained leather, with non foldable, adjustable heel strap and PU sole (resistant to animal fats, oil and fuel). Suitable for use in kitchens.

- Comfortable shape
- Microfibre lining
- Non-slip PU sole
- Toe protection cap made from steel (200 J)
- Adjustable instep strap with buckle fastening

Colour: White or black

EN ISO 20345; SB, A, E, WRU, SRA

Shoe size	Pk	Cat. No.
Model 1000: White		
36	1 PAIR	**114-0471**
37	1 PAIR	**114-2001**
38	1 PAIR	**114-2002**
39	1 PAIR	**114-2003**
40	1 PAIR	**114-2004**
41	1 PAIR	**114-2005**
42	1 PAIR	**114-2006**
43	1 PAIR	**114-2007**
44	1 PAIR	**114-2008**
45	1 PAIR	**114-2009**

Safety shoes, clogs
Honeywell Safety Products

Safety clogs with heel straps made from washable microfibre. The shoes are recommended for people working in laboratories, food industries and other areas where hygiene is required.

- Textile lining
- Single density PU sole
- Steel toe cap (200 J) for optimal protection
- Unisex

Width: 11
Colour: Black or white

EN ISO 20345; SB, A, E, SRC

Shoe size	Pk	Cat. No.
Black		
35	1 PAIR	**114-3892**
36	1 PAIR	**114-3893**
37	1 PAIR	**114-3894**
38	1 PAIR	**114-3895**
39	1 PAIR	**114-3896**
40	1 PAIR	**114-3897**
41	1 PAIR	**114-3898**
42	1 PAIR	**114-3899**
43	1 PAIR	**114-3900**
44	1 PAIR	**114-3901**
45	1 PAIR	**114-3902**
46	1 PAIR	**114-3903**
47	1 PAIR	**114-3904**
48	1 PAIR	**114-3905**
49	1 PAIR	**114-3906**
50	1 PAIR	**114-3907**
White		
35	1 PAIR	**114-3876**
36	1 PAIR	**114-3877**
37	1 PAIR	**114-3878**
38	1 PAIR	**114-3879**
39	1 PAIR	**114-3880**
40	1 PAIR	**114-3881**
41	1 PAIR	**114-3882**
42	1 PAIR	**114-3883**
43	1 PAIR	**114-3884**
44	1 PAIR	**114-3885**
45	1 PAIR	**114-3886**
46	1 PAIR	**114-3887**
47	1 PAIR	**114-3888**
48	1 PAIR	**114-3889**
49	1 PAIR	**114-3890**
50	1 PAIR	**114-3891**

Cleanroom shoes, clogs, Hygiene

Safety clogs made from water resistant microfibre upper. Self cleaning, lightweight PU sole (resistant to oils, fats, acids and alkalis, food and animal waste). Specially designed for cleanrooms, medical and food industries.

- Anti-static, flexible sole with high slip resistance
- Breathable and fast drying mesh lining
- Foldable, elasticated heel strap
- Machine washable at 40 °C
- Steel toe cap 200 J

Colour: White

EN 20345; S2, SRC

Shoe size	Pk	Cat. No.
3	1 PAIR	**114-4956**
4	1 PAIR	**114-4957**
5	1 PAIR	**114-4958**
6	1 PAIR	**114-4959**
7	1 PAIR	**114-4960**
8	1 PAIR	**114-4961**
9	1 PAIR	**114-4962**
10	1 PAIR	**114-4952**
11	1 PAIR	**114-4953**
12	1 PAIR	**114-4954**
13	1 PAIR	**114-4955**

Safety shoes, slip-on, Bacou Pro'Clean
Honeywell Safety Products

White safety shoe made from microfibre upper, PU insole and dual density PU outsole (resistance to abrasion, fuel oil and grease).

- Breathable water resistant microfibre upper, for maximum comfort and lightness
- Removable, anti-bacterial and anti-static dual density PU foam insole with comfortable heel pads
- No stitching on the upper, limits contamination; easy care
- Light and flexible, slip resistant and self-cleaning dual density PU outsole ensures shock absorption and protects against changes in temperature
- Non metallic 200 J Spacium™ extra wide toe cap made from injected polymer

Colour: White

EN ISO 20345; S2, SRC

Shoe size	Pk	Cat. No.
35	1 PAIR	**114-3335**
36	1 PAIR	**114-3336**
37	1 PAIR	**114-3337**
38	1 PAIR	**114-3338**
39	1 PAIR	**114-3339**
40	1 PAIR	**114-3340**
41	1 PAIR	**114-3341**
42	1 PAIR	**114-3342**
43	1 PAIR	**114-3343**
44	1 PAIR	**114-3344**
45	1 PAIR	**114-3345**
46	1 PAIR	**114-3346**
47	1 PAIR	**114-3347**
48	1 PAIR	**114-3348**
49	1 PAIR	**114-3349**

Safety shoes, slip on, Bacou Pro'Clean Black

Honeywell Safety Products

Slip on safety shoes made from breathable water resistant microfibre upper, extra wide sole for better stability. Extremely comfortable as the instep perfectly matches the shape of the foot. The dual density PU outsole is resistant to changes in temperature, abrasion, acids and alkalis in limited to low concentrations.

- Seamless upper to minimise contamination
- Light and flexible PU outsole ensures shock absorption and high slip resistance
- Removable dual density PU foam insole; antibacterial, antistatic and with comfortable heel pads
- Ultra-light, non metallic 200 J SPACIUM™ toe cap

Colour: Black

EN ISO 20345; S2, SRC

Shoe size	Pk	Cat. No.
36	1 PAIR	**114-3379**
37	1 PAIR	**114-3380**
38	1 PAIR	**114-3381**
39	1 PAIR	**114-3382**
40	1 PAIR	**114-3383**
41	1 PAIR	**114-3384**
42	1 PAIR	**114-3385**
43	1 PAIR	**114-3386**
44	1 PAIR	**114-3387**
45	1 PAIR	**114-3388**
46	1 PAIR	**114-3389**
47	1 PAIR	**114-3390**
48	1 PAIR	**114-3391**

Safety shoes, slip-on, Hygiene

Safety shoes made from water resistant microfibre upper. Self cleaning, lightweight PU sole (resistant to oils, fats, acids and alkalis, food and animal waste). Specially designed for cleanrooms, medical and food industries.

- Anti-static, flexible sole with high slip resistance
- Breathable and fast drying mesh lining
- Padded ankle collar
- Machine washable at 40 °C
- Steel toe cap 200 J

Colour: White or black

EN 20345; S2, SRC

Shoe size	Pk	Cat. No.
White		
3	1 PAIR	**114-4989**
4	1 PAIR	**114-4990**
5	1 PAIR	**114-4991**
6	1 PAIR	**114-4992**
7	1 PAIR	**114-4993**
8	1 PAIR	**114-4994**
9	1 PAIR	**114-4995**
10	1 PAIR	**114-4985**
11	1 PAIR	**114-4986**
12	1 PAIR	**114-4987**
13	1 PAIR	**114-4988**
Black		
3	1 PAIR	**114-5042**
4	1 PAIR	**114-5043**
5	1 PAIR	**114-5044**
6	1 PAIR	**114-5045**
7	1 PAIR	**114-5046**
8	1 PAIR	**114-5047**
9	1 PAIR	**114-5048**
10	1 PAIR	**114-4996**
11	1 PAIR	**114-4997**
12	1 PAIR	**114-4998**
13	1 PAIR	**114-4999**

Safety shoes for ladies, lace-up, Temptation® Elite Plaza
Honeywell Safety Products

Full grain water resistant leather safety shoe with non metallic 200 J toecap and anti-puncture midsole. TPU/nitrile outsole.

- Bamboo lining, absorbing perspiration and odour
- Pre-formed, anti-static and removable insole
- Anti-puncture midsole

Colour: Grey/black

EN ISO 20345; S3, SRA

Shoe size	Pk	Cat. No.
35	1 PAIR	**114-0576**
36	1 PAIR	**114-0577**
37	1 PAIR	**114-0578**
38	1 PAIR	**114-0579**
39	1 PAIR	**114-0580**
40	1 PAIR	**114-0581**
41	1 PAIR	**114-0582**
42	1 PAIR	**114-0583**

Safety shoes, lace-up, Caleo
Honeywell Safety Products

Water resistant, oiled full grain leather upper with reinforced protection at the front and back. Padded ankle collar and tongue, lateral watertight bellows, 3D lining and dual density PU outsole (resistant to changes in temperature, abrasion, acids and alkalis in limited to low concentrations).

- Light and flexible PU outsole ensures shock absorption and high slip resistance
- Anti-bacterial lining with 3D structure and textile panels
- Removable dual density PU foam insole; anti-bacterial, anti-static and with comfortable heel pads
- 200 J Spacium™ toe cap in injected polymer
- Puncture resistant stainless steel midsole

Colour: Olive/turquoise

EN ISO 20345; S3, SRC

Shoe size	Pk	Cat. No.
35	1 PAIR	**114-4101**
36	1 PAIR	**114-3716**
37	1 PAIR	**114-3717**
38	1 PAIR	**114-3718**
39	1 PAIR	**114-3719**
40	1 PAIR	**114-3720**
41	1 PAIR	**114-3721**
42	1 PAIR	**114-3722**
43	1 PAIR	**114-3723**
44	1 PAIR	**114-3724**
45	1 PAIR	**114-3725**
46	1 PAIR	**114-3726**
47	1 PAIR	**114-3727**
48	1 PAIR	**114-3728**
49	1 PAIR	**114-3729**

Safety shoes, slip-on, Bacou ATL Star
Honeywell Safety Products

These safety shoes with breathable water resistant microfibre upper are exclusively manufactured for VWR. The flexible shoe is abrasion and slip resistant and is therefore suitable for any working surface.

- Flexium™ anti-puncture midsole is 60% lighter than steel soles and covers 100% of the front of the foot
- Metal-free Athletic AMG 200J toe cap
- Anti-static Coolmax® fabric lining with anti-bacterial silver ions is shock absorbent
- Bi-density outsole (PU/TPU) maximises shock absorption
- Elastic strip for a perfect fit around the foot

Colour: White

EN ISO 20345; S3, SRC

Shoe size	Pk	Cat. No.
35	1 PAIR	**114-4513**
36	1 PAIR	**114-4514**
37	1 PAIR	**114-4515**
38	1 PAIR	**114-4516**
39	1 PAIR	**114-4517**
40	1 PAIR	**114-4518**
41	1 PAIR	**114-4519**
42	1 PAIR	**114-4520**
43	1 PAIR	**114-4521**
44	1 PAIR	**114-4522**
45	1 PAIR	**114-4523**
46	1 PAIR	**114-4524**
47	1 PAIR	**114-4525**

Safety shoes, lace-up, Premium Sport S1
Honeywell Safety Products

Sportive safety shoes made from breathable textile and velour leather, featuring a premium textile lining. Ideal for light industrial applications.

- Padded collar and tongue for optimal comfort
- Reflective inserts for improved visibility
- Anti-static, removable insole is washable
- Vibram® nitrile/PU Sole is slip and abrasion resistant, withstands oils and fuels
- Steel toecap

Colour: Grey/blue

EN ISO 20345; S1, SRA

Shoe size	Pk	Cat. No.
38	1 PAIR	**113-6336**
39	1 PAIR	**113-6337**
40	1 PAIR	**113-6338**
41	1 PAIR	**113-6339**
42	1 PAIR	**113-6340**
43	1 PAIR	**113-6341**
44	1 PAIR	**113-6342**
45	1 PAIR	**113-6343**
46	1 PAIR	**113-6344**
47	1 PAIR	**113-6345**
48	1 PAIR	**113-6346**

Safety shoes, lace-up, Hygiene

Laced safety shoes made from water resistant microfibre upper. Self cleaning, lightweight PU sole (resistant to oils, fats, acids and alkalis, food and animal waste). Specially designed for cleanrooms, medical and food industries.

- Anti-static, flexible sole with high slip resistance
- Breathable and fast drying mesh lining
- Padded ankle collar
- Machine washable at 40 °C
- Steel toe cap 200 J

Colour: White or black

EN 20345; S2, SRC

Shoe size	Pk	Cat. No.
White		
3	1 PAIR	**114-4967**
4	1 PAIR	**114-4968**
5	1 PAIR	**114-4969**
6	1 PAIR	**114-4970**
7	1 PAIR	**114-4971**
8	1 PAIR	**114-4972**
9	1 PAIR	**114-4973**
10	1 PAIR	**114-4963**
11	1 PAIR	**114-4964**
12	1 PAIR	**114-4965**
13	1 PAIR	**114-4966**
Black		
3	1 PAIR	**114-4978**
4	1 PAIR	**114-4979**
5	1 PAIR	**114-4980**
6	1 PAIR	**114-4981**
7	1 PAIR	**114-4982**
8	1 PAIR	**114-4983**
9	1 PAIR	**114-4984**
10	1 PAIR	**114-4974**
11	1 PAIR	**114-4975**
12	1 PAIR	**114-4976**
13	1 PAIR	**114-4977**

Safety ESD shoes, lace-up, Premium Sport S3
Honeywell Safety Products

Sportive safety shoes made from S3 compliant high quality leather, featuring a premium textile lining. Ideal for ESD environments.

- Modern sneaker design; unisex
- Padded collar and tongue
- Ergonomic insole
- PU/TPU Sole is slip and abrasion resistant, withstands oils and fuels
- Composite toe cap, TPU reinforcement at front

Colour: Black/grey

EN ISO 20345; S3, SRC

Shoe size	Pk	Cat. No.
36	1 PAIR	**114-4500**
37	1 PAIR	**114-4501**
38	1 PAIR	**114-4502**
39	1 PAIR	**114-4503**
40	1 PAIR	**114-4504**
41	1 PAIR	**114-4505**
42	1 PAIR	**114-4506**
43	1 PAIR	**114-4507**
44	1 PAIR	**114-4508**
45	1 PAIR	**114-4509**
46	1 PAIR	**114-4510**
47	1 PAIR	**114-4511**
48	1 PAIR	**114-4512**

Safety ankle boots, lace-up, Temptation® Elite Luna
Honeywell Safety Products

Stylish ladies ankle boots in black, water resistant nubuck leather with HealthTech® Bamboo lining. The shoes are cut, impact and splash resistant and therefore ideal for manufacturing applications and transportation.

- TPU and nitrile cemented outsole with EVA insert in heel for shock absorption
- Pre-formed, anti-static and removable insole for improved hygiene
- Non metallic 200 J Premium™ toecap
- Non metallic Flexium™ midsole provides puncture resistance

Colour: Black

EN ISO 20345; S3, SRA

Shoe size	Pk	Cat. No.
35	1 PAIR	**114-0568**
36	1 PAIR	**114-0569**
37	1 PAIR	**114-0570**
38	1 PAIR	**114-0571**
39	1 PAIR	**114-0572**
40	1 PAIR	**114-0573**
41	1 PAIR	**114-0574**
42	1 PAIR	**114-0575**

Safety ankle boots, lace-up, Premium Sport
Honeywell Safety Products

Sportive safety shoes made from breathable textile and velour leather, featuring a premium textile lining. Ideal for light industrial applications.

- Padded collar and tongue for optimal comfort
- Reflective inserts for improved visibility
- Anti-static, removable insole is washable
- Vibram® nitrile/PU Sole is slip and abrasion resistant, withstands oils and fuels
- Steel toecap

Colour: Grey/blue

EN ISO 20345; S1, SRA

Shoe size	Pk	Cat. No.
36	1 PAIR	**113-6347**
37	1 PAIR	**113-6348**
38	1 PAIR	**113-6349**
39	1 PAIR	**113-6350**
40	1 PAIR	**113-6351**
41	1 PAIR	**113-6352**
42	1 PAIR	**113-6353**
43	1 PAIR	**113-6354**
44	1 PAIR	**113-6355**
45	1 PAIR	**113-6356**
46	1 PAIR	**113-6357**
47	1 PAIR	**113-6358**
48	1 PAIR	**113-6359**

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Safety ESD ankle boots, lace-up, Premium Sport S2

Honeywell Safety Products

Sportive safety boots made from S2 compliant high quality leather, featuring a premium textile lining. Ideal for ESD environments.

- Modern sneaker design; unisex models
- Padded collar and tongue
- Ergonomic insole
- PU/TPU sole is slip and abrasion resistant, withstands oils and fuels
- Composite toecap, TPU reinforcement at front

Colour: Black/grey

EN ISO 20345; S2, SRC

Shoe size	Pk	Cat. No.
36	1 PAIR	**113-6321**
37	1 PAIR	**113-6322**
38	1 PAIR	**113-6323**
39	1 PAIR	**113-6324**
40	1 PAIR	**113-6325**
41	1 PAIR	**113-6326**
42	1 PAIR	**113-6327**
43	1 PAIR	**113-6328**
44	1 PAIR	**113-6329**
45	1 PAIR	**113-6330**
46	1 PAIR	**113-6331**
47	1 PAIR	**113-6332**
48	1 PAIR	**113-6333**

Safety ankle boots, slip-on, Hygiene

Safety ankle boots made from water resistant microfibre upper. Self cleaning, lightweight PU sole (resistant to oils, fats, acids and alkalis, food and animal waste). Specially designed for cleanrooms, medical and food industries.

- Anti-static, flexible sole with high slip resistance
- Breathable and fast drying mesh lining
- Padded ankle collar
- Machine washable at 40 °C
- Steel toe cap 200 J

Colour: White

EN 20345; S2, SRC

Shoe size	Pk	Cat. No.
3	1 PAIR	**114-4945**
4	1 PAIR	**114-4946**
5	1 PAIR	**114-4947**
6	1 PAIR	**114-4948**
7	1 PAIR	**114-4949**
8	1 PAIR	**114-4950**
9	1 PAIR	**114-4951**
10	1 PAIR	**114-4941**
11	1 PAIR	**114-4942**
12	1 PAIR	**114-4943**
13	1 PAIR	**114-4944**

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Safety boots, Wellingtons, Steelite™ Classic FW 95
Portwest

Steelite™ safety wellingtons are manufactured from PVC/nitrile to give a seamless watertight construction.

- Washable nylon lining and kick off spurs
- Slip resistant and anti-static
- 200 J steel toe cap
- Pierce resistant midsole

Colour: Black or green

EN ISO 20345:2004; S5

Shoe size	Pk	Cat. No.
Black		
36	1 PAIR	**114-4438**
37	1 PAIR	**114-4439**
38	1 PAIR	**114-4440**
39	1 PAIR	**114-4441**
40	1 PAIR	**114-4442**
41	1 PAIR	**114-4443**
42	1 PAIR	**114-4444**
43	1 PAIR	**114-4445**
44	1 PAIR	**114-4446**
45	1 PAIR	**114-4447**
46	1 PAIR	**114-4448**
47	1 PAIR	**114-4449**
48	1 PAIR	**114-4450**
Green		
36	1 PAIR	**114-4451**
37	1 PAIR	**114-4452**
38	1 PAIR	**114-4453**
39	1 PAIR	**114-4454**
40	1 PAIR	**114-4455**
41	1 PAIR	**114-4456**
42	1 PAIR	**114-4457**
43	1 PAIR	**114-4458**
44	1 PAIR	**114-4459**
45	1 PAIR	**114-4460**
46	1 PAIR	**114-4461**
47	1 PAIR	**114-4462**
48	1 PAIR	**114-4463**

Safety boots, Wellingtons, Steelite™ Food FW 84
Portwest

Steelite™ safety wellingtons are manufactured from PVC/nitrile to give a seamless watertight construction. Suitable for the food industry.

- Washable nylon lining and kick off spurs
- Slip resistant and anti-static
- 200 J steel toe cap

Colour: White

EN ISO 20345:2004; S4

Shoe size	Pk	Cat. No.
37	1	**114-3655**
38	1	**114-3656**
39	1	**114-3657**
40	1	**114-3658**
41	1	**114-3659**
42	1	**114-3660**
43	1	**114-3661**
44	1	**114-3662**
45	1	**114-3663**
46	1	**114-3664**
47	1	**114-3665**

Toe protection, Millenium Pied Protect®

114-3747

114-3744

Visitor's overshoe made from TPU (recyclable and waterproof) with integrated steel cap.

- Cap has a high resistance value
- Easy to pull on over outdoor shoes
- Can be used for a range of sizes thanks to the elastic band
- Can be re-used over a long period, with little maintenance required
- 200 J steel cap

Colour: Black

EN ISO 20344 and EN 12568

Shoe size	Pk	Cat. No.
S	5 PAIR	**114-3748**
M	5 PAIR	**114-3747**
L	5 PAIR	**114-3746**
1xS, 2xM, 2xL	1 KIT	**114-3745**

Description	Pk	Cat. No.
Accessories		
Dispenser for 15 pairs, wall fixing, weight: 4.6 kg, delivered empty	1	**114-3744**

Insoles
Portwest

Insole, fleece

Insole, memory foam

Insole, gel cushioning

Insole, fleece

This thermal insole has a fleece layer to keep feet warm and a soft latex layer for maximum cushioning to help absorb impact and reduce fatigue.

Insole, memory foam

Ergonomically designed insole which moulds to the individual foot shape. Provides all day long comfort and support. Trim to size for perfect fit.

Insole, thermal aluminium

Designed to insulate feet with a special aluminium layer to retain heat and repel cold and a wool/polyester layer for added warmth and comfort.

Insole, gel cushioning

Available in three standard sizes that can be trimmed to fit the individual shoe size, these gel cushions absorb shocks and help relieve tired aching feet.

Description	Shoe size	Pk	Cat. No.
Insole, fleece, black	U*	1 PAIR	**114-4366**
Insole, memory foam, white	U*	1 PAIR	**114-4364**
Insole, thermal aluminium, grey	U*	1 PAIR	**114-4365**
Insole, gel cushioning, grey	S	1 PAIR	**114-4369**
Insole, gel cushioning, grey	M	1 PAIR	**114-4368**
Insole, gel cushioning, grey	L	1 PAIR	**114-4367**

* One size fits all

Shoe and boot laces, Steelite™
Portwest

Black laces made of 300D polyester.

Description	Pk	Cat. No.
Shoe laces, black, 90 cm	12 PAIR	**114-4370**
Boot laces, black, 150 cm	12 PAIR	**114-4371**

Work socks, SK33
Portwest

Work boot socks are made of 79% acrylic, 15% nylon and 6% polyester.

- Cushioned sole for improved wearer comfort
- Durable reinforced heel and toe area
- Supplied in a pack of three pairs

Colour	Size	Pk	Cat. No.
Black	39 - 43	1	**114-4466**
Black	44 - 48	1	**114-4467**

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Lotion soap, Deluxe
Gojo

This soap provides a rich, thick lather to clean hands effectively, yet gently. Ideal for frequent use in all public facilities and washrooms.

- Natural moisturisers
- Vitamins A and E
- Pleasant fragrance provides a clean, fresh scent

Description	Pk	Cat. No.
Lotion soap refill pack, 1000 ml, for Gojo® dispenser	8	**115-3452**

Description	Pk	Cat. No.
Accessories		
Soap dispenser, Space Saver™ NXT™, for 1×1000 ml Antibac, Purell® or Deluxe refill packs	1	**115-3460**

Lotion and foam soap, Antibac
Gojo

The Gojo® Antibac soap is antibacterial and at the same time soft to the skin where frequent hand washing is required. Ideal for use in hospitals, restaurants, schools and for food service environments.

- Quick acting antibacterial agent
- Very effective and kind to the skin
- Fragrance-free

Description	Pk	Cat. No.
Lotion soap refill pack, Antibac, 1000 ml, for NXT™ dispenser	8	**115-3459**
Foam soap, pump dispenser, 535 ml	4	**115-0605**

Description	Pk	Cat. No.
Accessories		
Soap dispenser, Space Saver™ NXT™, for 1×1000 ml Antibac, Purell® or Deluxe refill packs	1	**115-3460**

Foam soap, FMX
Gojo

115-0490

115-3474

A foam handwash that is gentle to the skin but effective for the removal of fats, oils and soils commonly associated with food processing.

- Suitable for use in all areas of the plant

Meets guidelines for use in USDA. Listed with NSF International.

Description	Pk	Cat. No.
FMX dispenser	1	**115-0490**
Foam soap, refill for FMX dispenser, 1250 ml	3	**115-3474**
Antibacterial foam soap, refill for FMX dispenser, 1250 ml	3	**115-3476**

Mild foam soap
Gojo

Mild foam hand wash that contains no fragrance or dyes and is therefore mild enough for high frequency washing. The soap is supplied in a practical pump bottle dispenser for immediate use.

- Extremely gentle to the skin
- Over 93% of the ingredients are derived from plant sources
- 74.5% biodegradable

Awarded the European Ecolabel Accreditation (EU Ecolabel: UK/30/003)

Description	Pk	Cat. No.
Mild foam hand wash, pump bottle, 535 ml	4	**115-3475**

Refill soaps Gojo® and hygienic hand rub Purell for TFX™ dispensers
Gojo

Refill snaps securely into the TFX™ dispenser with an audible click.

- SANITARY SEALED™ collapsible bottle refill keeps germs out
- Helps to keep your dispenser and sink area clean
- Bottle refill size: 1200 ml

Ordering information: The TFX® dispenser should be ordered separately (115-0548 and 115-0549).

Description	Pk	Cat. No.
Foam soap Premium with revitalising creme for TFX™ dispenser, 1200 ml	2	**115-0550**
Foam soap Antibac for TFX™ dispenser, 1200 ml	2	**115-0551**
Purell® sanitising foam for TFX™ dispenser, 1200 ml	2	**115-0552**
Advanced Purell® hand rub gel for TFX™ dispenser, 1200 ml	4	**115-0553**
Foam soap Mild for TFX™ dispenser, 1200 ml	2	**115-0554**

Refill foam soaps Gojo® and Hygienic Hand Rub Purell® for LTX dispensers
Gojo

Gojo Smart-Flex™ refill bottles for LTX dispensers

All refills are made with Gojo Smart-Flex™Technology: Durable, recyclable PET material provides crystal clarity while using 30% less material than rigid HDPE material.

Advanced Hygienic Hand Rub, Purell®

- Combining both antimicrobial efficacy and clinically proven maintenance of skin health
- Gel with exceptional antimicrobial efficacy
- Clinically proven to maintain skin health
- Bactericidal according to EN 1500 (hand wash), EN 12791 (surgical rub), EN 1040, EN 1276 and EN 13727, virucidal according to EN 14476, fungicidal and yeasticidal according to EN 1275 and tuberculocidal and mycobactericidal according to EN 14348

Skin Nourishing Foam Hand Sanitiser, Purell®

- The formulation of this foam hand sanitiser is a synergistic blend of seven moisturisers to nourish the skin.
- Clinically proven to improve skin condition in 14 days
- Proven antimicrobial efficacy and virucidal activity

Mild Foam Hand Wash, Fragrance-Free, Gojo®

- The mild foam hand wash is extremely gentle to the skin.
- Contains no fragrance or dyes
- Mild enough for high frequency washing
- Approved for use by the Health Service for Healthcare workers

Foam Hand Wash, Freshberry, Gojo®

- Spa-inspired foam hand soap offers luxurious lather and a pleasant botanical fragrance with a vibrant turquoise colour
- Enriched with moisturisers, natural extracts and skin conditioners
- Delights users while supporting a healthy environment.

Antibacterial Foam Soap, Gojo®

- Smooth foaming handwash with germ killing power
- Fragrance-free
- Conforms to EN 1499, EN 1276, EN 1040 and EN 13727

Description	Pk	Cat. No.
Mild foam hand wash, fragrance-free, Gojo®, 700 ml refill bottle, for LTX dispenser	1	**115-1516**
Foam hand wash, Freshberry, Gojo®, 700 ml refill bottle, for LTX dispenser	1	**115-1517**
Antibacterial foam soap, Gojo®, 700 ml refill bottle, for LTX dispenser	1	**115-1520**
Hand rub advanced hygiene, Purell®, 700 ml refill bottle, for LTX dispenser	1	**115-1514**
Skin nourishing foam sanitiser, Purell®, 700 ml refill bottle, for LTX dispenser	1	**115-1515**

Hand sanitisers, Purell®
Gojo

Purell® contains a moisturising system, which increases skin hydration to leave the skin feeling especially soft.

- On clean hands, kills 99.9% of germs that may cause diseases within 15 seconds
- Contains quick acting microbial substances
- Easy to use - no need for water or towels

Description	Pk	Cat. No.
Hand sanitiser, Purell® refill for NXT™ dispenser, 1000 ml	8	**115-3457**
Pump bottle, 60 ml, Purell® Advanced*	24	**115-1744**
Pump bottle, 350 ml, Purell®	1	**115-3461**

Description	Pk	Cat. No.
Accessories		
Soap dispenser, Space Saver™ NXT™, for 1×1000 ml Antibac, Purell® or Deluxe refill packs	1	**115-3460**

Soap dispensers, LTX-7 Touch-Free
Gojo

Recyclable PET

These small size (700 ml) soap dispensers are suitable for tight spaces with removable pump that makes recycling easy.

- Large sight window, skylight and crystal clear refill bottles for easy check
- Converts to a locking dispenser by removing the key from inside the dispenser
- Refill bottles hold their shape as they empty for a more attractive appearance. SANITARY SEALED™ refills use 30 % less plastic than rigid HDPE refills

Description	W×D×H (mm)	Colour	Pk	Cat. No.
GOJO® LTX-7™ dispenser	145×101×218	Grey/White	1	**115-1521**
PURELL® LTX-7™ dispenser	145×101×218	White/White	1	**115-1518**
GOJO® LTX-7™ dispenser	145×101×218	Chrome/Black	1	**115-1522**
PURELL® LTX-7™ dispenser	145×101×218	Chrome/Black	1	**115-1519**

Soap dispensers, LTX-12 Touch-Free
Gojo

PTE

These high capacity dispensers (1200 ml) are designed for high traffic areas. The CONTROLLED COLLAPSE refills hold their shape as they empty for a more attractive appearance. Removable pump makes recycling easy. SANITARY SEALED™ refills using 30% less plastic than rigid HDPE bottles.

- Reliable touch-free dispensing
- Smart electronics eliminate battery changes
- Large sight window for product monitoring
- Easily converts to locking dispenser
- Lifetime guarantee and includes batteries

Description	W×D×H (mm)	Colour	Pk	Cat. No.
GOJO® LTX-12™ dispenser	147×101×266	Grey/White	1	**115-1529**
PURELL® LTX-12™ dispenser	147×101×266	White/White	1	**115-1526**
GOJO® LTX-12™ dispenser	147×101×266	Chrome/Black	1	**115-1525**
PURELL® LTX-12™ dispenser	147×101×266	Chrome/Black	1	**115-1527**

Skin cleanser, Estesol® mild wash
Stoko

Estesol® mild wash is a creamy, special skin cleanser featuring mild cleansing power and good skin compatibility. It is designed for all types of light contamination which could otherwise only be removed by using scrubbing agents and solvents. Water-soluble.

- Very good skin compatibility, can be used all over the body, and even on sensitive skin
- Does not contain any perfumes or colourants: Can also be used in food industry applications
- With skin-smoothing conditioner: Improved skin feel after washing coupled with caring effect on the skin

EU Ecolabel

Description	Pk	Cat. No.
Skin cleanser, Estesol® mild wash, 500 ml bottle with hand pump	20	**115-1342**
Skin cleanser, Estesol® mild wash, 2x 5 l canister with hand pump	2	**115-1345**
Skin cleanser, Estesol® mild wash, 10 l canister	1	**115-1346**

Soap dispenser, Vario® Ultra
Stoko

Rugged plastic

- Easy to use and to refill
- Practical washroom solution for use in shower rooms
- Suitable for use with all 1000 ml and 2000 ml soft bottles

Colour: White, blue, green, red

Description	W×D×H (mm)	Colour	Pk	Cat. No.
Soap dispenser, Vario® Ultra	135×135×330	White	1	**115-0648**
Soap dispenser, Vario® Ultra	135×135×330	Blue	1	**115-1490**
Soap dispenser, Vario® Ultra	135×135×330	Green	1	**115-1492**
Soap dispenser, Vario® Ultra	135×135×330	Red	1	**115-1493**

Liquid soap, Tork® Premium
SCA

Tork® Premium soap features a reliable, drip-free system that promotes good hygiene and is labelled with the Nordic Swan.

Tork® Premium Soap Liquid Mild and Tork® Premium Soap Liquid Luxury Soft

- Perfect for all normal hand washing in public areas, like hotels and restaurants
- Cleans and actively conditions the skin
- Liquid Mild soap: Skin friendly thanks to mild formulation
- Luxury Soft soap: Silk extract for extra softness and jasmine perfume for a luxury fresh feeling

Tork® Premium Soap Liquid Extra Mild

- Perfect for frequent hand washing, especially in hygienic environments like hospitals
- Perfume and colour-free, minimises the risk of allergic reactions

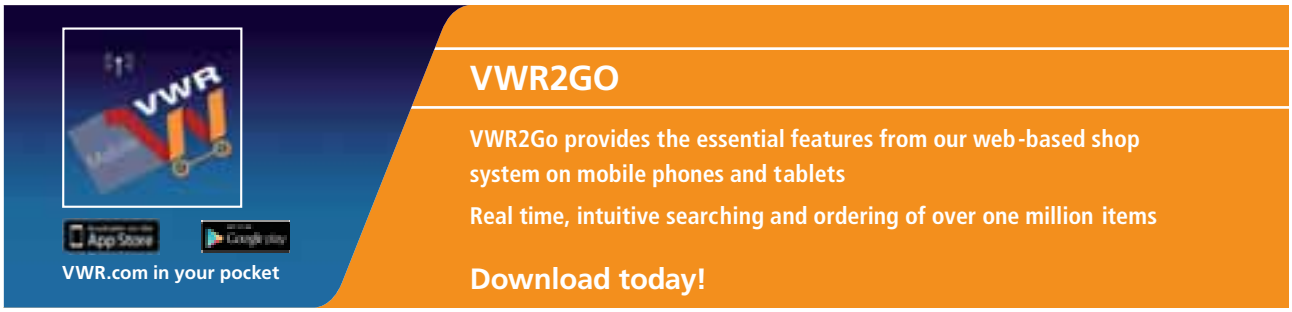
Tork® Premium Soap Liquid Extra Hygiene HD

- Perfect to use in hygiene-sensitive environments, such as restaurants, kitchens, wellness establishments
- Highly effective against bacteria and approved according to European Norms (EN 1040 and EN 1499)
- Perfume and colour-free, minimises the risk of allergic reactions

Tork® Premium Soap Hair and Body

- Combined soap and shampoo product for the whole body, including the hair
- Perfect for showers
- Mild formulation for skin and hair
- Environmental license with EU Ecolabel and Nordic Ecolabel

Description	Pk	Cat. No.
Tork Premium Soap Liquid Mild, for Tork S1 soap dispenser, refill bottle, 1000 ml	1 l	**115-1644**
Tork Premium Soap Liquid Luxury Soft, for Tork S1 soap dispenser, refill bottle, 1000 ml	6	**115-1650**
Tork Premium Soap Liquid Mild, for Tork S2 soap dispenser, refill bottle, 475 ml	8	**115-1645**
Tork Premium Soap Liquid Luxury Soft, for Tork S3 soap dispenser, refill bottle, 800 ml	4	**115-1657**
Tork Premium Soap Liquid Extra Mild, non perfumed, for Tork S1 soap dispenser, refill bottle, 1000 ml	1 l	**115-1648**
Tork Premium Soap Liquid Extra Hygiene HD, for Tork S1 soap dispenser, refill bottle, 1000 ml	1 l	**115-1649**
Liquid soap for body and hair, for Tork S1 dispenser, refill bottle, 1000 ml	1 l	**115-1646**
Tork Premium Soap Hair and Body, for Tork S2 soap dispenser, refill bottle, 500 ml	8	**115-1647**



Hand cleanser, Industrial, Tork® Premium
SCA

Industrial hand cleanser is a mild and creamy soap, dermatologically tested, with a rich and creamy lather. It is recommended for heavily soiled, greasy or oily hands and perfect for use in industrial environments.

- Fat dissolving ingredients, so highly effective cleanser for dirt, oil and grease
- Perfume-free and colour-free, minimises the risk of allergic reactions
- Environmental license with Nordic Ecolabel

Description	Pk	Cat. No.
Perfume-free hand cleanser, refill bottle, 1000 ml	1 l	**115-1643**

Soap dispensers, Tork Elevation
SCA

These liquid hand soap dispensers are designed for kitchen areas and for showers. A lever arm action avoids skin contact with the dispenser which meets the current hygiene standards requirements.

Description	W×D×H (mm)	Pk	Cat. No.
Liquid soap dispenser, S1, plastic, white	112×114×291	1	**115-1681**
Liquid soap dispenser, S1, plastic, black	112×114×291	1	**115-1682**
Liquid soap dispenser with arm lever, S1, plastic, white	112×114×291	1	**115-1683**
Liquid soap dispenser with arm lever, S1, plastic, black	112×114×291	1	**115-1684**

Liquid soap dispensers, S2 Mini, Tork Elevation
SCA

Plastic

This small dispenser for liquid soap is suitable for low capacity washrooms - even in tough and demanding environments. They are suitable for use with S2 soap refills.

- Reliable and drip-free system
- Secures good hygiene
- High capacity: 475 shots
- Robust design
- Low maintenance

Description	W×D×H (mm)	Colour	Pk	Cat. No.
Liquid soap dispenser, S2 Mini, 500 ml	112×114×206	White	1	**115-1685**
Liquid soap dispenser, S2 Mini, 500 ml	112×114×206	Black	1	**115-1686**

Description	Pk	Cat. No.
Accessories		
Hand and Body lotion, Tork Premium, refill bottle for S2 dispenser, 475 ml	8	**115-1641**
Tork Premium Soap Liquid Mild, for Tork S2 soap dispenser, refill bottle, 475 ml	8	**115-1645**

Soap dispensers, Tork
SCA

Metal / plastic

These dispensers with their modern design are suitable for a high image washroom interior.

- Simple and reliable system for improved hygiene
- Low maintenance
- High capacity

Description	W×D×H (mm)	Pk	Cat. No.
Liquid soap dispenser, S1, aluminium	105×102×297	1	**115-1652**
Foam soap dispenser, S3, aluminium, with light and sound indications	129×125×293	1	**115-1653**

Hand soap and glove cleanser, LoNa™
Micronova

Specially designed for cleanrooms where contamination control is addressed before and after gowning, this low sudsing soap is ideal for when extractable ions are a concern.

- Extremely low ion counts - less than 100 parts per billion for sodium
- pH-balanced cleansing formula is gentle enough to be used on hands and face
- 500 ml pump bottles can be used as stand-alone or with VWR touch-free dispenser 129-0486

Description	Pk	Cat. No.
Soap, LoNa™	500 ml	**129-0510**

Antibacterial soap and instant hand sanitisers
Micronova

In 500 ml pump bottles, which can be used as stand alone or with VWR touch free dispenser 129-0486.

Hy-G-Clenz™ is an antibacterial soap lotion effective against a wide range of both gram positive and gram negative bacteria.

- Unique blend of 0.3% Triclosan and natural moisturisers is ideal for frequent hand washing
- Compliant with OSHA standards

NovaClenz™ is a clear gel containing 60% ethyl alcohol and provides excellent antiseptic and sanitising capabilities. Helps to prevent transfer of bacterial agents, including pseudomonas, salmonella, and staphylococcus.

- Instant hand sanitiser requires no sink, water or towels
- Effective in reducing the incidence of nosocomial infections

AquaHol™ irradiated alcohol hand sanitiser is 70% gamma irradiated alcohol filtered to 0.1 µm.

- Bottles are double bagged for sterile environments
- Sterilising agent for hands and gloves

Description	Pk	Cat. No.
NovaClenz™ hand sanitiser, pump bottle, 500 ml	500 ml	**129-0272**
AquaHol™ sterile hand and glove sanitiser, hands free bubble dispenser, 500 ml	6	**115-0429**
Hy-G-Clenz™ antibacterial lotion soap, pump bottle, 500 ml	500 ml	**129-0512**

Soap dispensers, Touch-Free

The Touch-Free soap dispensers effectively reduce cross-contamination and waste in the cleanroom and supporting areas. They are suitable for use with Micronova 500 ml pump bottles.

- Economical, no drip
- No-waste unit, can be wall-mounted
- Activated by electronic eye, the dispenser delivers a pre-measured dose of soap, lotion or sanitiser into hands cleanly and safely
- Compact, gravity fed unit that has no tube but a simple pump action

Complies with OSHA, CDC and ADA

Delivery information: Supplied with four size 'D' batteries.

Description	Pk	Cat. No.
Touch-Free soap dispenser, gravity-fed	1	**129-0486**

Liquid soap for hands and body, LAVAMANI Rose
Werner & Mertz

For gentle, regular cleaning of the hands. Also ideal as a body wash.

- Cleans gently
- Preserves the natural acid mantle of the skin
- Protects the skin from drying and chapping

Description	Pk	Cat. No.
Liquid soap for hands and body, LAVAMANI Rose, 1000 ml	10 Bottle	**115-1725**

Disinfectant gel, Stokosept® gel
Stoko

Stokospet® gel is an alcoholic gel tested for hygienic (EN 1500) and surgical (EN 12791) hand disinfection without water. It can be used wherever the highest standards of hygiene are required, such as in the food industry and other hygiene-sensitive sectors, for example electronics and cleanroom environments, hospitals, public institutions and in all other workplaces where there is a risk of microbial contamination.

- Bactericidal, fungicidal as well as virucidal against enveloped viruses (incl. A/H1N1)
- Conditioning and moisturising properties thanks to Glycerine and Panthenol
- Perfume-free, reduces unpleasant odours on the skin

Active ingredients:
58.4 g Ethanol/100 g product
10.0 g Propan-2-ol/100 g product
Hygienic hand disinfection, TB, enveloped viruses (incl. A/H1N1): 30 sec.
Surgical hand disinfection: 3 min.

EN 1500, EN 12791, HACCP-assessed

Description	Pk	Cat. No.
Disinfectant gel, Stokosept® gel, squeeze bottle with flip top, 100 ml	1	**115-1335**
Disinfectant gel, Stokosept® gel, pump bottle, 500 ml	1	**115-1336**
Disinfectant gel, Stokosept® gel, 1000 ml soft bottle for Stoko® Vario® dispensers	9	**115-0649**

Disinfectant gel, Tork Premium alcohol gel
SCA

This alcohol gel is gentle on the skin and tough on bacteria.

- For use without water
- Kills 99.9% of all bacteria
- For Tork S1 system

EN 1500

Description	Pk	Cat. No.
Tork Premium alcohol gel, for S1 dispenser, refill bottle, 1000 ml	1 l	**115-1640**

Hand cream, Hand Medic®
Gojo

Gojo® Hand Medic® Professional Skin Conditioner moisturises and conditions hardworking hands and helps to restore a healthy appearance to the skin.

- Helps maintain the skin's natural barrier to stay healthy
- Quickly improves the condition of rough, dry damaged skin

Description	Pk	Cat. No.
Tube, 148 ml, Hand Medic®	1	**115-3473**
Refill pack for 500 ml Gojo® dispenser, Hand Medic®	6	**115-3465**

Description	Pk	Cat. No.
Accessories		
Bag-in-box dispenser for 500 ml Hand Medic®, black with glossy finish	1	**115-3464**

Skin cream, Stokolan® classic
Stoko

Perfumed, silicone-free skin care cream for face and hands. It is easy to apply, is swiftly absorbed and does not leave any unpleasant or annoying oily film. The cream should always be used before any lengthy breaks and after finishing work.

- Contributes to reducing skin irritations and soothes the skin
- By simultaneously providing moisture and oils, Stokolan® classic enhances the natural regeneration of the skin
- When used regularly, it keeps the skin smooth and supple
- Suitable for all types of skin

Description	Pk	Cat. No.
Skin care cream, Stokolan® classic, 1000 ml soft bottle for Stoko® Vario® dispensers	9	**115-1339**

Skin protection, Stokoderm® aqua
Stoko

Soft cream (3-phase W/O/W emulsion) protects against water-based workplace substances such as cooling lubricants and water-based solutions: Dyes, acids, alkaline solutions, salts or cleaning agents.

- With repair effect; stabilises, regenerates and strengthens the skin barrier
- With active complex, containing bisabolol HACCP-assessed
- Swiftly absorbed
- Slightly oily, silicone-free, colourant-free, perfume-free
- Can be used on the face

Ordering information: Soft bottle may only be used with Stoko® Vario® dispensers.

Description	Pk	Cat. No.
Skin protection, Stokoderm® aqua, 20 ml tube	100	**115-1477**
Skin protection, Stokoderm® aqua, 100 ml tube	1	**115-1474**
Skin protection, Stokoderm® aqua, 500 ml pump bottle	1	**115-1476**
Skin protection, Stokoderm® aqua, 1000 ml soft bottle for Stoko® Vario® dispensers	9	**115-1475**

Hand and body lotion, Tork® Premium
SCA

Tork Premium Lotion is ideal for normal, dry and sensitive skin. It can be used as body lotion as well as hand lotion. The lotion contains canola oil, glycerin and panthenol which gives a calming, healing effect. It is also enriched with natural vitamin E (antioxidant) which restores skin properties and enhances skin barrier effect.

- Perfect to use for frequently washed or sanitised hands
- Perfume and colour-free, minimises the risk of allergic reactions
- Environmental license with Nordic Ecolabel

Description	Pk	Cat. No.
Hand and Body lotion, Tork Premium, refill bottle for S2 dispenser, 475 ml	8	**115-1641**

Description	W×D×H (mm)	Colour	Pk	Cat. No.
Accessories				
Liquid soap dispenser, S2 Mini, 500 ml	112×114×206	White	1	**115-1685**
Liquid soap dispenser, S2 Mini, 500 ml	112×114×206	Black	1	**115-1686**

Hand cream, ProCare

Formulated especially for the hands of laboratory and healthcare personnel, ProCare protects hands and prevents skin irritations. With lanolin to moisturise the skin and silicone to seal in moisture. Particularly effective for relieving the irritation caused by the frequent wearing of rubber gloves. Contains Nonoxynol-9 a non-ionic surfactant.

- No waiting - ProCare is instantly absorbed
- Thick cream formulation is economical in use
- In dispenser or tube

Description	Pk	Cat. No.
Hand Cream, ProCare, tube	85 g	**115-0907**
ProCare, pump bottle, 450 g	1	**115-0908**

Hand towels, HOSTESS*
Kimberly-Clark

Single ply paper towels.

- Effective performance at a competitive cost per sheet
- Especially suitable for the busier washroom with high throughput

Colour: Natural or blue

Compatible with dispensers AQUARIUS* 6954 (115-1781), 6956 (115-1782) and 6945 (115-1780).

Description	Colour	L×W (mm)	Packed	Pk	Cat. No.
Paper towels, 1 ply	Natural	230×310	20 sleeves of 180 towels	3,600	**115-2175**
Paper towels, 1 ply	Blue	255×230	24 sleeves of 168 towels	4,032	**115-1434**

Hand towels, KLEENEX® and SCOTT®
Kimberly-Clark

115-2167

115-2165

Disposable hand towels made from AIRFLEX*, a voluminous, textile-like fabric, 2 or 3 ply.

- High absorption performance, and tear proof even when wet
- Single, self-presenting towels for enhanced hygiene and less waste
- Extremely soft

Colour: White

KLEENEX® folded towels for dispenser type 6945, 6956 or 8971.

KLEENEX® roll towels for dispenser type 6959 or 6963.

Description	L×W (mm)	Packed	Pk	Cat. No.
SCOTT® Excellent towels, 2 ply	250×230	1 sleeve of 190 towels	190	**115-2168**
SCOTT® Excellent towels, 2 ply	250×330	20 sleeves of 140 towels	2,800	**115-2167**
SCOTT® Natura towels, 2 ply	250×500	20 sleeves of 84 towels	1,680	**115-2177**
SCOTT® 50, large roll, 2 ply	370×500	6 rolls of 135 towels	6 Roll	**115-2165**
KLEENEX® Premier towels, 3 ply	215×315	15 sleeves of 72 towels	1,080	**115-2172**
KLEENEX® Ultra towels, 3 ply	215×315	30 sleeves of 96 towels	2,880	**115-1259**
KLEENEX® Ultra towels, 2 ply	315×215	30 sleeves of 124 towels	3,720	**115-1262**
KLEENEX® Ultra towels, 2 ply	215×210	15 sleeves of 186 towels	2,790	**115-1757**
KLEENEX® Airflex towels, 2 ply	415×215	30 sleeves of 94 towels	2,820	**115-1260**
KLEENEX® Soft towels, 3 ply	415×215	30 sleeves of 72 towels	2,160	**115-1261**
KLEENEX® Hard Roll Hand Towel, 2 ply	200×130000	6 rolls of 130 m	6	**115-1286**

Description	W×D×H (mm)	Pk	Cat. No.
Dispensers for hand towels, AQUARIUS*			
Dispenser for C-fold hand towels, AQUARIUS* 6945, white ABS, with window, large	280×146×412	1	**115-1780**
Dispenser for C-fold hand towels, AQUARIUS* 6956, white ABS, with window, small	307×176×155	1	**115-1782**
Dispenser for hand towel rolls, AQUARIUS*			
Dispenser for hand towel rolls, AQUARIUS* 6959, white ABS, with window	326×241×430	1	**115-1779**
Dispensers for hand towels, RIPPLE*, 6963			
Dispenser for towel rolls (200 mm), RIPPLE* CONTROLOMATIC* 6963, grey ABS	330×245×430	1	**115-1536**
Dispenser for hand towels, KIMBERLY-CLARK PROFESSIONAL*			
Dispenser for interfolded hand towels, KIMBERLY-CLARK PROFESSIONAL*, 8971, stainless steel	237×118×349	1	**115-1783**

Dispenser for hand towel rolls, AQUARIUS*
Kimberly-Clark

This dispenser is ideal for dispensing single sheets of SCOTT®/KLEENEX® hand towel rolls. Perfect for use in busy washrooms in work areas, such as food processing environments and public venues, such as airports.

- Curved design with an easy-clean finish and no dirt or dust traps
- No need to touch the dispenser: Helps to reduce contamination and the spread of germs
- Single sheet dispensing: Helps to keep costs down in areas of heavy use
- Easy maintenance

Description	W×D×H (mm)	Pk	Cat. No.
Dispenser for hand towel rolls, AQUARIUS* 6959, white ABS, with window	326×241×430	1	**115-1779**

Folded towels, zigzag fold, ZetForm®

Hand cleaning wipes available in two colours.

- 2 ply
- Zigzag fold
- Suitable for use with dispenser 115-2742

Colour: Beige or green

Colour	L×W (mm)	Packed	Pk	Cat. No.
Beige	250×230	20 packs with 160 towels	3,200	**115-2729**
Green	250×230	20 packs with 160 towels	3,200	**115-2748**
Green	250×230	1 pack with 160 towels	160	**115-2749**

Folded towels, ZetForm®

Cotton tissues.

- Disposable
- Completely folded for space saving storage
- Suitable for use with dispenser 115-2790

Colour: Brilliant white

Description	L×W (mm)	Packed	Pk	Cat. No.
2 ply	320×220	20 packs with 160 tissues	3,200	**115-2751**
2 ply	320×220	1 pack with 160 tissues	160	**115-2750**
3 ply	320×220	1 pack with 125 tissues	125	**115-2754**
3 ply	320×220	20 packs with 125 tissues	2,500	**115-2755**
2 ply	250×230	1 pack with 120 tissues	120	**115-2752**
2 ply	250×230	20 packs with 120 tissues	2,400	**115-2753**
3 ply	420×220	1 pack with 100 tissues	100	**115-2756**
3 ply	420×220	20 packs with 100 tissues	2,000	**115-2757**

Dispensers for folded paper towels, zetMatic®

Stable steelplate

Dispenser for folded paper towels: 115-2748, 115-2749 and 115-2729.

• With refill window

Colour: White

Description	W×D×H (mm)	Pk	Cat. No.
Dispenser, steel	270×125×355	1	**115-2742**

Paper towel rolls, zetRoll®

Disposable towels made from cellulose. Single, 2 or 3 ply.

- High tear resistance and good absorptive capacity
- Centre feed to minimise waste
- Can be used for hand cleaning or for wiping surfaces

Colour: White, natural or green

Description	Colour	L×W (mm)	Pk	Cat. No.
Towel roll, Mini Premium, 1 ply	White	120000×200	1 Roll	**115-2775**
Towel rolls, Mini Premium, 1 ply	White	120000×200	12 Roll	**115-2776**
Towel roll, Midi Premium, 1 ply	White	320000×220	1 Roll	**115-2777**
Towel rolls, Midi Premium, 1 ply	White	320000×220	6 Roll	**115-2778**
Towel rolls, 2 ply	Green	7500×230	10 Roll	**115-2792**
Towel roll, 2 ply	Green	7500×230	1 Roll	**115-2791**
Towel roll, recycled material, 2 ply, perforated (142 sheets)	Natural	54000×240	1 Roll	**115-2795**
Towel rolls, recycled material, 2 ply, perforated (142 sheets)	Natural	54000×240	10 Roll	**115-2796**
Towel rolls, Midi Premium 2, 2 ply, perforated (450 sheets)	Natural	170000×220	6 Roll	**115-2780**
Towel roll, 3 ply	White	70000×220	1 Roll	**115-2793**
Towel rolls, 3 ply	White	70000×220	10 Roll	**115-2794**

Dispensers for towel rolls, ZetMatic®

For towel rolls (i.e. Cat. No. 115-2791 to 115-2796) or folded towels (i.e. Cat. No. 115-2750 to 115-2757).

• Durable plastic
• Easy installation
• Lockable

Colour: White

Description	W×D×H (mm)	Pk	Cat. No.
Dispenser	300×195×251	1	**115-2790**

Interfold and roll hand towels, Tork
SCA

115-0225

115-3108

115-3105

Interfold, ZZ-and C-fold hand towels and hand towel rolls for Tork dispenser systems, various quality grades available:

- Tork Premium: Soft premium quality for heaviest wiping tasks - with a better and faster absorption than other towels and wipes
- Tork Advanced: Improved performance tissues and wipes that meet or exceed basic requirements - with a good absorption, brightness and strength
- Tork Universal: Standard quality tissues and wipes for basic demands

Hand towel rolls for H1 dispenser

- Large number of towels on each roll: Less frequent refilling needed
- Highly absorbent: Towel dries quickly and thoroughly

Interfold hand towels for H2 dispenser

- Reduces consumption: Only one towel at a time
- Provides quick and effective hand drying
- Highly absorbent: Towel dries quickly and thoroughly

ZZ-fold and C-fold hand towels for H3 dispenser

- Traditional hand towel system with towels of short length
- C-fold enables user to take more than one towel at a time

Description	Colour	L×W (mm)	Packed	Pk	Cat. No.
Tork Matic® hand towel rolls for H1 dispenser					
Tork Advanced with soft embossing, 2 ply	White	150 m × 210	6×150 m rolls	6 Roll	**115-1398**
Tork Advanced with soft embossing, 2 ply	Blue	150 m × 210	6×150 m rolls	6 Roll	**115-1363**
Tork Advanced with soft embossing, 2 ply	Green	150 m × 210	6×150 m rolls	6 Roll	**115-0325**
Tork Premium, extra soft with soft embossing, 2 ply	White	100 m × 210	6×100 m rolls	6 Roll	**115-0225**
Tork XPress® interfold hand towels for H2 dispenser					
Tork Universal Interfold, 2 ply	White	255×212	21×226 towels	4,746	**115-1396**
Tork Advanced Interfold, with soft embossing, 2 ply	White	340×212	21×136 towels	2,856	**115-1395**
Tork Advanced Interfold Soft, with soft embossing, 2 ply	White	255×212	21×180 towels	3,780	**115-0212**
Tork Premium Interfold extra soft, with soft embossing, 2 ply	White	212×85	21×100 towels	2,100	**115-3108**
ZZ-fold and C-fold hand towels for H3 dispenser					
Tork Advanced, C-fold, 2 ply	White	500×250	20×70 towels	1,400	**115-3105**
Tork Advanced, zigzag fold, 2 ply	White	248×115	15×250 towels	3,750	**115-1726**
Tork Advanced, zigzag fold, 2 ply	Green	248×230	15×250 towels	3,750	**115-1439**

Dispensers for hand towels, Tork
SCA

H1

H2

H3

Tork Elevation and Aluminium dispensers feature a seamless, hygienic design, a modern look and space saving benefits.

Continued on next page

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H1 Dispensers for Hand Towel Rolls

- High capacity and robust design that is ideal for busy washrooms found in places like schools and airports
- Touch-free system, users only touch the paper they use: Ensures good hygiene
- One towel at the time: Reduces consumption

H2 Dispensers for Interfold Hand Towels

- Suitable for environments that demand both comfort and hygiene - such as restaurants, offices and healthcare facilities
- Touch-free, users only touch the towel they use: Ensures good hygiene
- Extra slim design: Attractive and space saving
- Side-opening hood: Easy to refill
- Either available in plastic or in aluminium

H3 Dispensers for C-Fold and ZZ-Fold Hand Towels

- Suitable hand towel system for public environments as it features a robust design
- Side-opening hood: Flexible and easy refilling

Description	W×D×H (mm)	Pk	Cat. No.
H1 dispensers for hand towel rolls			
H1, Tork Aluminium Dispenser, aluminium, metallic/grey	326×223×432	1	**115-1362**
H1, Tork Elevation Dispenser, plastic, white	337×203×372	1	**115-1664**
H1, Tork Elevation Dispenser, plastic, white	331×206×368	1	**115-1360**
H1, Tork Elevation Dispenser, plastic, black	331×206×368	1	**115-1361**
H2 dispensers for interfold hand towels			
H2, Tork Aluminium Dispenser, aluminium, metallic/grey	276×110×485	1	**115-1651**
H2, Tork Elevation Dispenser, plastic, white	302×102×444	1	**115-0625**
H2, Tork Elevation Dispenser, plastic, black	302×102×444	1	**115-1665**
H2, Tork Elevation Dispenser Mini, plastic, white	302×101×295	1	**115-1666**
H3 dispensers for C-fold and ZZ-fold hand towels			
H3, Tork Elevation Dispenser, white	333×136×439	1	**115-1667**
H3, Tork Elevation Dispenser Mini, white	332×135×291	1	**115-1668**

Kitchen rolls, Tork Premium
SCA

High quality kitchen roll for wiping and cleaning. A flexible alternative in many kitchen environments.

- Very good absorption
- Can be disposed of together with household waste

ISO 9001:2000, ISO 14001 and EMAS

Description	L×W (mm)	Packed	Pk	Cat. No.
2 ply, 64 sheets, white	15 m×230	2 rolls/pack	24 Roll	**115-0330**

VWR COLLECTION

SELECTED FOR YOU

Joseph paper, Grade 551

Absorbent paper, suitable for cleaning and drying of glass containers, tubes, microscopic plates, bottles, etc.

Thickness (mm)	0.07 mm
Weight	25 g/m²

Description	L×W (mm)	Pk	Cat. No.
Plain	350×500	500	**111-5005**
Folded	350×500	500	**111-5006**
Plain	350×500	800	**111-5007**
Folded	350×500	40	**111-5009**

Facial tissues

Two ply facial tissues made from 100% cellulose.

- Extra soft

Colour: White

LxW (mm)	Packed	Pk	Cat. No.
195×200	150 sheets per box	150	**115-0600**

Facial tissues, KLEENEX®
Kimberly-Clark

Extra soft 2 ply tissues, dispensed one at a time from cube dispenser.

- Lint guard aperture protects tissue and ensures smooth dispensing
- Last few sheets are tinted to indicate the box needs refilling or replacing

Colour: White

LxW (mm)	Packed	Pk	Cat. No.
210×201	90 sheets/box, 12 boxes per case	1,080	**115-1991**
216×186	100 sheets/box, 21 boxes per case	2,100	**115-1358**

Facial tissues, Tork Premium
SCA

115-1723

115-0337

Premium 2 ply facial tissues made of pure cellulose.

- Extra soft, hygienic
- Strong and absorbent
- Practical packaging, can be used with or without dispenser

Colour: White

LxW (mm)	Packed	Pk	Cat. No.
208×200	30×100 tissues	3,000	**115-1723**

Description	Pk	Cat. No.
Dispensers for facial tissues, F1, Tork		
F1 Tork facial tissue dispenser, white plastic	1	**115-0337**

Wipes for general applications

Absorbent, soft, thick and low-lint fleece wipes. For light use in the laboratory, electronics, computer industry, pharmaceuticals, biotechnology, optics, etc.

- High absorbency, in three formats, available in single or triple ply
- Practical dispenser box with anti-static, plastic film window for removal
- Table and wall-mounted dispensers for one handed removal of the wipes are available separately

Colour: White

Description	L×W (mm)	Packed	Pk	Cat. No.
Wipes				
Tissue wipes, 1 ply	213×114	In box	280	**115-0202**
Tissue wipes, 1 ply	424×355	In box	140	**115-0203**
Tissue wipes, 3 ply	424×368	In box	90	**115-0204**

Description	Pk	Cat. No.
Dispensers for wipes for general applications		
Dispenser, small, for 115-0202	1	**115-0205**
Dispenser, medium, for 115-0203	1	**115-0206**
Dispenser, large, for 115-0204	1	**115-0207**

Wipe rolls, WYPALL* L10
Kimberly-Clark

Wipes made from single ply AIRFLEX* material are suitable for light wiping tasks and for soaking up small liquid spills.

- Economical
- Absorb rapidly, retain strength even when wet
- Cut down wipe consumption when used with centre-pull dispensers and the Roll Control System

Small rolls fit dispensers 115-2179; large rolls fit dispensers 115-0045, 115-1533 or 115-2038; centre-pull dispenser rolls fit dispensers 115-2182; Roll Control rolls for dispensers 115-1767.

Description	L×W (mm)	Packed	Pk	Cat. No.
Small roll, blue, 1 ply	380×240	12 rolls of 200 wipes	12 Roll	**115-2001**
Large roll, white, 1 ply	380×235	1 roll of 1500 wipes	1 Roll	**115-2194**
Roll for centre-pull dispenser system, blue, 1 ply	185×380	6 rolls of 700 wipes	6 Roll	**115-1435**
Roll for centre-pull dispenser system roll, white, 1 ply	185×380	6 rolls of 700 wipes	6 Roll	**115-1436**
Roll for centre-pull dispenser system, white, 1 ply	20×320000	6 rolls of 320 m	6 Roll	**115-1768**
Mini roll for centre-pull dispenser system, white, 1 ply	185×380	12 rolls of 200 wipes	12 Roll	**115-1350**
Roll for Roll Control System, white, 1 ply	185×380	6 rolls of 630 wipes	6 Roll	**115-1351**
Roll for Roll Control System, blue, 1 ply	185×380	6 rolls of 630 wipes	6 Roll	**115-1353**

Wipe rolls, WYPALL* L20
Kimberly-Clark

These wipes made from single or double ply AIRFLEX* material are ideal for removing light soiling and small liquid spills from smooth surfaces.

- For fast and efficient wiping
- Rapid absorption; highly tear resistant even when wet
- Cut down wipe consumption when used with centre-pull dispensers and the Roll Control System

Small rolls fit dispensers 115-2179; large rolls fit dispensers 115-0045, 115-1533 or 115-2038; centre-pull dispenser rolls fit dispensers 115-2182; Roll Control rolls fit dispensers 115-1767.

Description	L×W (mm)	Packed	Pk	Cat. No.
Large roll, white, 1 ply	380×235	1 roll of 1000 wipes	1 Roll	**115-0030**
Large roll, blue, 1 ply	380×330	1 roll of 1000 wipes	1 Roll	**115-0023**
Small roll, white, 1 ply	460×240	24 rolls of 115 wipes	24 Roll	**115-2010**
Small roll, blue, 1 ply	460×240	24 rolls of 115 wipes	24 Roll	**115-2236**
Small roll, blue, 1 ply	510×380	12 rolls of 140 wipes	12 Roll	**115-2011**
Small roll, white, 2 ply	240×380	24 rolls of 150 wipes	24 Roll	**115-1437**
Roll for centre-pull dispenser system, white, 1 ply	380×185	6 rolls of 400 wipes	6 Roll	**115-2204**
Roll for Roll Control System, white, 1 ply	380×185	6 rolls of 400 wipes	6 Roll	**115-1352**

Wipes for general applications, WYPALL* L30
Kimberly-Clark

High capacity, single use paper wipes are excellent for large spills. Suitable for parts and tool clean ups and general purpose field utility wiping.

- Fast absorbing wipes made from AIRFLEX* fabric
- Strong when wet
- Use with dispenser for neat and controlled dispensing
- 2 ply

Colour: Blue, white

Small rolls fit dispensers 115-2179; large rolls fit dispensers 115-0045, 115-1533 or 115-2038; centre-pull dispenser rolls fit dispensers 115-2182.

Description	L×W (mm)	Packed	Pk	Cat. No.
Small roll, 2 ply, blue	240×380	1 roll of 100 sheets	1 Roll	**115-1276**
Small roll, 2 ply, blue	510×460	12 rolls of 82 sheets	12 Roll	**115-1438**
Small roll, 2 ply, blue	510×380	12 rolls of 100 sheets	12 Roll	**115-2012**
Small roll, 2 ply, blue	240×460	24 rolls of 82 sheets	24 Roll	**115-2013**
Large roll, 2 ply, blue	380×235	1 roll of 500 sheets	1 Roll	**115-2206**
Large roll, 2 ply, blue	380×330	1 roll of 500 sheets	1 Roll	**115-0024**
Large roll, 2 ply, blue	380×330	1 roll of 1000 sheets	1 Roll	**115-2237**
Large roll, 2 ply, blue	380×235	1 roll of 1000 sheets*	1 Roll	**115-1543**
Large roll, 2 ply, blue	380×235	1 roll of 1000 sheets**	1 Roll	**115-1544**
Roll for centre-pull dispenser system, 2 ply, blue	380×206	6 rolls of 300 sheets	6 Roll	**115-2207**
Roll for centre-pull dispenser system, 2 ply, white	380×205	6 rolls of 300 sheets	6 Roll	**115-2208**
Wipes in BRAG Box, 2 ply, blue	420×330	1 box of 280 sheets	1	**115-2023**
Interfolded wipes, 2 ply, blue	420×205	12 cartons of 74 sheets	12	**115-0517**

*Ideal for general purpose cleaning tasks.
**Ideal for handling of oil and grease.

Wipe rolls, WYPALL* L40
Kimberly-Clark

These high volume universal wipes are made from highly absorbent AIRFLEX* material, so they are excellent for all areas of industry. Ideal for use with oil and water and for large quantities of liquid.

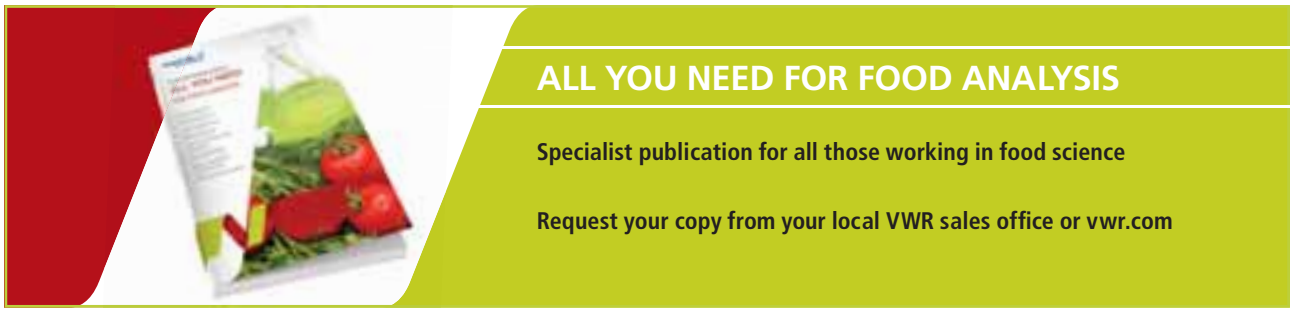
- Exceptional absorbency and tear resistance when wet
- Time saving: Large amounts of liquid are soaked up in the shortest possible time

Matching dispensers for jumbo rolls: 115-2038, 115-0045 and 115-1533.

Thickness: 25 - 85 g/m²

Colour: White or blue

Description	L×W (mm)	Packed	Pk	Cat. No.
Jumbo roll, 1 ply, perforated, white	315×340	1 roll of 750 sheets	1 Roll	**115-2051**
Jumbo roll, 1 ply, perforated, white	315×340	1 roll of 950 sheets	1 Roll	**115-1548**
Jumbo roll, 3 ply, perforated, blue	235×380	1 roll of 750 sheets	1 Roll	**115-2217**
Jumbo roll, 3 ply, perforated, blue	330×380	1 roll of 750 sheets	1 Roll	**115-2218**
Polishing wipes, jumbo roll, 3 ply, perforated, white	370×380	1 roll of 1000 sheets	1 Roll	**115-2108**



Wipes for general applications, KIMTECH PURE*
Kimberly-Clark

PP, reusable

KIMTECH PURE* cleaning wipes are manufactured using 100% virgin polypropylene. They are strong and absorbent allowing fast and efficient wiping and can be re-used.

- Highly absorbent and give a softer feel
- Chemically inert - they won't break down when used with solvents
- Low linting, making them suitable for critical wiping tasks
- Woven embossed pattern, which picks up and retains dirt making cleaning quicker and easier

Roll can be used with dispenser 115-0045, 115-1533 or 115-2038.

Colour: White

Description	L×W (mm)	Packed	Pk	Cat. No.
Roll	380×340	1 roll of 600 sheets	1 Roll	**115-2033**
Quarter fold	380×360	12 bags of 35 sheets	420	**115-2034**

Wipes for general applications, WYPALL* X50, colour coded
Kimberly-Clark

Due to its HYDROKNIT* material, WYPALL* X50 cloth provides fast absorption, tear resistance and high performance.

- Best value reusable wiping system for task segregation
- Good absorption, tear resistant
- Colour coded and therefore suitable for use in food processing industries

Colour	L×W (mm)	Packed	Pk	Cat. No.
Blue	250×425	6 packs with 50 wipes each	300	**115-1545**
Green	250×425	6 packs with 50 wipes each	300	**115-1546**
Yellow	250×425	6 packs with 50 wipes each	300	**115-2238**
Red	250×425	6 packs with 50 wipes each	300	**115-1547**

Description	Pk	Cat. No.
Dispensers for hand towels, AQUARIUS*		
Dispenser for C-fold hand towels, AQUARIUS* 6954, white ABS, with window	1	**115-1781**

Wipes for general applications, WYPALL* X70
Kimberly-Clark

HYDROKNIT*, reusable

Made from fast-absorbing HYDROKNIT* material, a hydroentangled cellulose/polypropylene blend without adhesives or chemical binders. For use in heavy manufacturing, metal fabrication, and processing plants for chemicals, refining, rubber, and plastics.

- Durable, rag-tough construction and a textured surface, yet soft and pliable
- Rags are reusable and will not fall apart when wet
- Long lasting, on-the-job performance allows extended usage, reducing cost and waste
- Large roll (115-2100) can be used with dispensers 115-0045, 115-1533 and 115-2038

Colour: White

Description	L×W (mm)	Packed	Pk	Cat. No.
Large roll	420×380	1 roll of 500 sheets	1 Roll	**115-2100**
Quarter folded	420×380	1 poly bag of 50 sheets	50	**115-0046**
Folded, PROMAN System	420×380	6 poly bags of 70 sheets	420	**115-1278**
In Brag Box	420×375	1 box with 300 sheets	300	**115-1281**
In Brag Box	420×310	1 box with 150 sheets	150	**115-2102**

Roll dispensers
Kimberly-Clark

115-0045

115-2038

115-2180

Wall-mounted or floor standing dispensers for wipe rolls.

Description	Pk	Cat. No.
Wall-mountable or table dispenser, blue, for large rolls with max. 420 mm width	1	**115-0045**
Floor-standing dispenser, blue, for large rolls with max. 420 mm width	1	**115-1533**
Floor-standing dispenser with waste bag holder, blue, for large rolls with max. 340 mm width	1	**115-2038**
Wall-mountable roll dispenser, white, for rolls with max. 500 mm width	1	**115-2180**

Roll dispenser, 7041
Kimberly-Clark

This roll dispenser can be used with 250 mm paper towel rolls.

W×D×H: 324×150×150 mm

Colour: White

Description	Pk	Cat. No.
Wall-mounted roll dispenser, 7041	1	**115-2179**

Roll dispensers for centrefeed, 7087
Kimberly-Clark

Dispenser made from durable plastic. For use with WYPALL* L10, L20, L30 wipes.

- Dispenses wipes individually
- Easy to refill
- Convenient and low cost

W×D×H: 276×265×387 mm

Colour: Grey/transparent

Description	W×D×H (mm)	Pk	Cat. No.
Roll dispenser for centrefeed, 7087	276×265×387	1	**115-2182**

Wipes for general applications, Tork Premium, colour coded
SCA

Viscose/polyester, reusable

Low linting, colour coded cloth wipes for cleaning, made from a mixture of viscose and polyester.

- Useful for a colour coded cleaning system
- Tork Premium: Strongest quality for heaviest wiping tasks

Colour	L×W (mm)	Packed	Pk	Cat. No.
Blue	300×380	8 packs of 40 folded wipes	320	**115-0584**
Green	300×380	8 packs of 40 folded wipes	320	**115-0585**
Yellow	300×380	8 packs of 40 folded wipes	320	**115-0586**
Red	300×380	8 packs of 40 folded wipes	320	**115-0587**

Wipes for special applications, Tork Premium Specialist
SCA

Non woven polyester

High performance cloths for precision cleaning and polishing.

- Low linting, ideal for dust-sensitive environments
- Excellent for use with both organic and water based solvents
- Strong and absorbing material allows long durability and repeated use without tearing
- Soft and textile feel, enables precision cleaning

Colour: White

Description	For	L×W (mm)	Packed	Pk	Cat. No.
Combi roll, for polishing	W1/W2/W3	171 m × 320	Roll with 450 sheets	1 Roll	**115-1612**
Folded, for cleaning	W4	428×385	5 packs with 150 wipes	750	**115-0643**
Folded, for sensitive cleaning	W4	428×385	5 packs with 100 wipes	500	**115-0644**
Folded, for polishing	W4	428×385	5 packs with 140 wipes	700	**115-1613**

Wipes for general applications, Tork
SCA

115-0339

115-0338

Cellulose/PP/polyester, reusable

Strong and durable cloth wipes for use in a variety of environments, softness and flexibility mean wipes are excellent for cleaning, wiping and polishing even in confined spaces.

- Solvent resistant, good dry and wet strength and performance
- High absorbency
- Low-linting

Colour: White or blue

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Description	Colour	L×W (mm)	Packed	Pk	Cat. No.
Roll, for use with W1 dispensers	White	380 m × 430	Centrefeed roll of 1000 sheets	1 Roll	**115-0640**
Combi roll, for use with W1/W2/W3 dispensers	White	152 m × 320	Centrefeed roll of 400 sheets	1 Roll	**115-0338**
Folded, to be used on its own (Handy Box W7 system)	White	428×385	Box of 300 sheets	1	**115-0641**
Folded, for use with W4 dispenser (Top Pak)	White	428×385	Top Pak of 150 sheets	5	**115-0339**
Combi roll, for use with W1/W2/W3 dispensers	Blue	152 m × 320	Centrefeed roll of 400 sheets	1 Roll	**115-1658**
Folded, to be used on its own (Handy Box W7 system)	Blue	428×385	Box of 300 sheets	1	**115-0639**

Dispensers for wipes and cloths, Tork
SCA

115-1265

115-1267

115-0335

W1

The Tork Performance dispensers for large rolls are ergonomically designed dispensers with safe and reliable tear-off, easy load feature and extra stable construction, which is important in many industrial environments. The floor stand is mobile and easy to move around thanks to its flexible wheels. The wall stand saves space due to its wall mounting.

- Glass fibre reinforced teeth
- Long lasting and durable because of sturdy metal construction
- For large paper rolls

W2

The elegant Tork Performance wipe dispenser system W2 dispenses both paper and non woven refills. It provides optimum protection for paper from dirt, damp and theft.

- Tough construction and solid manufacture ensure reliability and durability
- Water resistant seals protect wipes: Improved hygiene and less wastage
- Side-opening hood: Saves refilling time and cost

W3

The Tork dispenser for wipe pack rolls is a high capacity dispenser which features easy refilling. Thanks to its large roll capacity, it is ideal for high use areas.

- Optimised one hand dispensing for all needs: Users can take as much as they need or sheet-by-sheet
- Flexible usage: Carton can be put on dispenser shelf or brought to preferred work place

W4

The Tork Performance dispenser for folded wipes is wall mountable and easy to detach. It provides hygienic protection and one at a time dispensing to reduce consumption and waste.

- Wall bracket for mounting: Convenient installation, facilitates cleaning
- Flexible mounting options with magnets: No drilling needed

Description	W×D×H (mm)	Pk	Cat. No.
W1 - Wall or floor stand roll dispensers			
W1, floor stand dispenser for cloth roll/combi roll, white/turquoise	646×530×1006	1	**115-1265**
W1, floor stand dispenser for cloth roll/combi roll, red/grey	646×530×1006	1	**115-1399**
W1, wall dispenser for large paper/cloth combi rolls, white/turquoise	646×274×463	1	**115-1266**
W1, wall dispenser for large paper/cloth combi rolls, red/grey	646×274×463	1	**115-1400**
W2 - Combi roll dispensers			
W2, Tork Performance dispenser for wipes/cloth rolls/combi rolls, white/turquoise	328×447×302	1	**115-1267**
W2, Tork Performance dispenser for wipes/cloth rolls/combi rolls, red/black	328×447×302	1	**115-1268**
W3 - Wipe pack dispensers			
W3, open dispenser for boxed combi rolls	285×290×360	1	**115-0335**
W4 - Single sheet dispensers			
W4, single sheet dispenser for folded wipes/cloth, white/turquoise	427×206×394	1	**115-1269**
W4, single sheet dispenser for folded wipes/cloth, red/grey	427×206×394	1	**115-1401**

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Description	Pk	Cat. No.
Accessories		
Magnet kit for mounting W4 dispensers to metallic surfaces	1	**115-1397**

Centrefeed rolls and wipes, Tork
SCA

115-0209

115-0656

Centrefeed rolls and wipes for Tork dispenser systems available in various qualities:

- Tork Heavy-Duty: Soft premium quality for heaviest wiping tasks - with a better and faster absorption than other towels and wipes
- Tork Plus: Improved performance tissues and wipes that meet or exceed basic requirements - with a good absorption, brightness and strength
- Tork Basic: Standard quality tissues and wipes for basic demands

Description	Colour	For	L×W (mm)	Packed	Pk	Cat. No.
Mini-Centrefeed rolls for M1 dispenser						
Centrefeed wipes, Tork Basic Mini, 1 ply, unperforated	White	M1	120 m ×215	11×120 m rolls	11 Roll	**115-1264**
Centrefeed wipes, Tork Mini, 1 ply, unperforated	White	M1	120 m × 215	11×120 m rolls	11 Roll	**115-1394**
Centrefeed wipes, Tork Plus Mini, 2 ply, perforated (350×215 mm)	White	M1	75 m × 215	11×75 m rolls	11 Roll	**115-1263**
Centrefeed rolls for M2 dispenser						
Centrefeed wipes, Tork Basic, 1 ply, unperforated	White	M2	300 m ×200	6×300 m rolls	6 Roll	**115-0210**
Centrefeed wipes, Tork Basic, 2 ply, perforated (350×200 mm)	White	M2	160 m × 200	6×160 m rolls	6 Roll	**115-0213**
Centrefeed wipes, Tork, 1 ply, unperforated	White	M2	275 m × 215	6×275 m rolls	6 Roll	**115-0209**
Centrefeed wipes, Tork, 1 ply, perforated (350×200 mm)	White	M2	165 m × 195	6×165 m rolls	6 Roll	**115-0333**
Centrefeed wipes, Tork Plus, 2 ply, perforated (350×215 mm)	White	M2	160 m × 245	6×160 m rolls	6 Roll	**115-2409**
Roll wipes for W1/W2 dispenser						
Wipes, Tork Basic, 1 ply, unperforated	White	W1	140 m × 240	2×1400 m rolls	2 Roll	**115-0214**
Wipes, Tork, 1 ply, unperforated	White	W1	1000 m × 245	1×1000 m roll	1 Roll	**115-0334**
Wipes, Tork Combi roll, 1 ply, perforated (400×245 mm)	White	W1/W2	460 m × 25	2×460 m rolls	2 Roll	**115-0219**
Wipes, Tork Plus, 2 ply, perforated (340×235 mm)	White	W1	510 m × 235	1×510 m roll	1 Roll	**115-0637**
Wipes, Tork Plus, 2 ply, perforated (340×369 mm)	Blue	W1	510 m × 370	1×510 m roll	1 Roll	**115-0215**
Wipes, Tork Plus Combi roll, Performance, 2 ply, perforated (340×235 mm)	White	W1/W2	255 m × 235	2×255 m rolls	2 Roll	**115-3109**
Wipes, Tork Heavy-Duty, 2 ply, perforated (340×369 mm)	Blue	W1	340 m × 369	1×340 m roll	1 Roll	**115-3112**
Wipes, Tork Industrial Heavy-Duty, 3 ply, perforated (340×369 mm)	Blue	W1	255 m × 369	1×255 m roll	1 Roll	**115-0656**

Roll dispensers for centrefeed, Tork M1/M2

SCA

These dispensers for centrefeed rolls enable an easy, one-handed operation while allowing a user to take as much paper as needed. They are ideal for areas where hand and light surface wiping are combined - such as in food preparation laboratories.

- Easy load concept: Rapid refilling
- Stainless steel teeth: Long lasting and sturdy
- Flexible dispensing: Take as much as you need

Description	W×D×H (mm)	Pk	Cat. No.
M2 - Centrefeed system big			
Wipe roll dispenser centrefeed, Tork, metal, white	251×236×426	1	**115-1615**
Wipe roll dispenser centrefeed, Tork Elevation, white	239×227×360	1	**115-0615**
Wipe roll dispenser centrefeed, Tork Elevation, black	239×227×360	1	**115-0607**
Wipe roll dispenser centrefeed, Tork Performance, white/ turquoise	248×232×356	1	**115-1695**
Wipe roll dispenser centrefeed, Tork Performance, red/ smoke	248×232×356	1	**115-1696**
M1 - Centrefeed system small			
Wipe roll dispenser mini centrefeed, Tork, metal, white	168×158×328	1	**115-1614**
Wipe roll dispenser mini centrefeed, Tork Elevation, white	174×165×321	1	**115-1679**
Wipe roll dispenser mini centrefeed, Tork Elevation, black	174×165×321	1	**115-1680**

Wipes for general applications, Econoline

These economical and disposable wipes permit general purpose use. Their open cellular structure provides effective dirt pick-up and absorbs moisture rapidly.

- Strong, in both wet and dry applications
- Low linting and easy to rinse
- Resistant to most solvents and chemicals

Colour: White

L×W (mm)	Packed	Pk	Cat. No.
430×300	Box of 100 wipes	100	**115-2603**

Wipes for general applications, Ko-Ton

Viscose, reusable

Supple and velvet soft cleaning wipes, which are excellent for polishing. These highly absorbent wipes are resistant to most solvents and chemicals.

- Designed for delicate, vulnerable surfaces
- Fast and high absorption of fluids
- Low linting and guaranteed silicone-free
- Easily absorb water, oil, and ink

Colour: White

L×W (mm)	Packed	Pk	Cat. No.
340×320	Box of 100 wipes	100	**115-2615**
430×500	Box of 500 wipes	500	**115-2622**

Wipes for general applications, J-Cloth

Reusable

These wipes are suitable for any kind of application, they can be used in combination with a variety of detergents.

- Very absorbent and easy to rinse
- Low linting with excellent dirt pick-up
- Available in five colours

Colour	L×W (mm)	Pk	Cat. No.
Red	610×360	50	**115-2613**
White	610×360	50	**115-0613**
Blue	610×360	50	**115-0614**
Green	610×360	50	**115-0601**
Yellow	610×360	50	**115-0602**
Blue	340×360	50	**115-2619**

Wipes, Chux

Cellulose Wadding Paper, reusable

This wipe is a strong, ultra-absorbent cleaning wipe. It permits high and fast absorption of water, oil and other fluids.

- Leaves no traces
- Good resistance even wet
- Compact structure
- Low linting and guaranteed silicone-free
- Good heat resistance

Colour: Blue

L×W (mm)	Packed	Pk	Cat. No.
340×290	275 per dispenser	275	**115-2661**
340×290	50 per dispenser	50	**115-2662**

Wipes for general applications, Scotch-Brite™ 300
3M

Cotton/PU, reusable

Reusable wipes for damp or wet cleaning of all smooth surfaces.

- Cotton with PU coating
- High absorptive capacity of water

Colour	L×W (mm)	Pk	Cat. No.
Blue	380×370	10	**115-1758**
Yellow	380×370	10	**115-1759**

Wipes for general applications, Multitex

Viscose-fleece, reusable

Ultra soft cloth ideal for sensitive applications and polishing.

- Solvent resistant and fibre-free
- Highly absorbent
- High tear resistance, even when wet

Colour: White

L×W (mm)	Packed	Pk	Cat. No.
375×340	Pack of 40	40	**115-0567**
375×340	8 packs of 50	400	**115-2798**
400×300	500 wipes per roll	2 Roll	**115-2799**

Wipes for general applications, Multizell®

Cellulose, reusable

Wipes are made from 100% recycled material and not bleached. Ideal to wipe off liquids or to remove soiling. Wipes can be taken one at a time, available in 3 or 4 ply versions and in various sizes.

- Highly absorbent
- Lint-free

Description	L×W (mm)	Packed	Pk	Cat. No.
4 ply	320×270	20 packs of 50	1.000	**115-2763**
4 ply	320×270	Pack of 50	50	**115-2764**
3 ply	320×270	Pack of 50	50	**115-2762**
3 ply	320×270	20 packs of 50	1.000	**115-2761**
3 ply	320×340	20 packs of 50	1.000	**115-2767**
4 ply	320×340	20 packs of 50	1.000	**115-2765**
4 ply	320×340	Pack of 50	50	**115-2766**

Wipe rolls, Multisoft® Air

Pure cellulose

High quality wipes for cleaning and polishing sensitive surfaces such as metal, plastics, wood, or finishes. Multi-soft cotton fleece roll with 500 sheets.

- Extremely soft, highly absorbent and solvent-resistant
- Strong, low-linting with special embossment

Colour: White

L×W (mm)	Packed	Pk	Cat. No.
400×250	1 roll with 500 sheets	500	**115-2728**

Wipe rolls, Multiclean®

These wipes are made from 100% recycled material. With two layers, they are suitable for the removal of major dirt.

- High absorbency and wet strength
- Embossed

Colour: Blue

L×W (mm)	Packed	Pk	Cat. No.
380×220	2 rolls of 1000 sheets	2.000	**115-2735**

Wipe rolls, zetRoll®

Disposable towel rolls made from cellulose, ideal for restaurants, schools, hospitals and petrol stations.

- High quality paper on rolls, can be used for wiping surfaces or for drying hands
- 3 ply

Colour	L×W (mm)	Packed	Pk	Cat. No.
White	12000×240	4 rolls with 51 sheets	4 Roll	**115-2071**

Cleaning wipe rolls

Cotton wipes, reusable

Blue cotton, manufactured from 100% recycled material, high resistance to tearing and good grip. 3 ply construction. Available in two sizes.

Wipes, wet-use

Anti-static, chemical resistant wipes, 100% polypropylene. Washable and reusable. These tear-proof, fibre-free wipes are a clean and economic solution for many applications.

Cleaning cloth roll

White, 4 ply construction, soft and with very high absorptive capacity.

Cleaning cloth roll, extra soft

Optimal absorptive capacity. White, extra soft wipe. Resistant to solvents, fibre-free and tear-proof.

Description	L×W (mm)	Packed	Pk	Cat. No.
Cleaning cloth Multitex® strong, roll, extra soft, white	400×300	1 roll of 500 sheets	1 Roll	**115-2725**
Wipes Polytex®, wet-use, white	380×320	1 roll of 500 sheets	1 Roll	**115-2722**
Wipes Polytex®, wet-use, blue	380×320	1 roll of 500 sheets	1 Roll	**115-2723**
Cleaning cloth Multiclean® plus, blue	380×220	2 rolls of 500 sheets	2 Roll	**115-2721**
Cleaning cloth Multiclean® plus, blue	380×380	2 rolls of 500 sheets	2 Roll	**115-2720**
Cleaning cloth Multisoft® Cell, roll, white	380×380	1 roll of 1000 sheets	1 Roll	**115-2724**

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Description	Pk	Cat. No.
Wipe dispensers		
Stand for large rolls with max. 340 mm width	1	**115-2593**
Stand with waste bag holder for large rolls with max. 420 mm width	1	**115-2592**
Wall mounted dispenser for large rolls with max. 420 mm width	1	**115-2741**

Wipe rolls, MicroRoll
Vileda Professional

115-1388

115-1389

Lightweight microfibre wipe (70% polyester, 30% polyamide) offering outstanding lint-free cleaning performance with a 99.9% removal of bacteria. The ultrafine microfibres scrape and absorb dirt from the surface, leaving behind nothing but tiny water droplets. It can be used on all water resistant surfaces such as desktops, cupboards, bars, tables, as well as on sinks, toilets and tiles.

- Good cleaning result in one step: Extremely important on delicate surfaces like glass or mirrors
- Semi-disposable cloth-on-a-roll concept: No hygiene issues derived from cross-contamination

Colour: White

Colour	L×W (mm)	Packed	Pk	Cat. No.
White	350×250	110 sheets/roll	4 Roll	**115-1388**

Description	Pk	Cat. No.
Dispenser for wipe rolls		
Wall-mountable dispenser for MicroRoll, transparent/white plastic	4	**115-1389**

Process wipes, KIMTECH PREP*
Kimberly-Clark

PP, reusable

Strong, low-lint wipes for repeat use cleaning with chemicals and solvents. Perfect for printing, pre and post-paint applications, glass and appliance manufacturing, engine maintenance.

- Great for wiping oils and grease
- Acid, base, and solvent resistant
- Roll 115-2222 is compatible with dispensers 115-0045, 115-1533 and 115-2038

Colour: Blue

Description	L×W (mm)	Packed	Pk	Cat. No.
Quarter fold	380×490	12 bags of 35 sheets	420	**115-2032**
Roll	380×340	1 roll of 500 sheets	1 Roll	**115-2222**
Brag-Box	310×425	1 box with 160 sheets	160	**115-1557**

Medical wipes, KIMCARE*
Kimberly-Clark

These hygienic cloths are ideal for many tasks, particularly for medical applications, cleaning lenses and slides.

- Soft yet tear-resistant
- In a water repellent pull-out dispenser

Colour: White

Packaging: 75/76 wipes in a pull-out dispenser.

Description	L×W (mm)	Pk	Cat. No.
Medical wipes, 2 ply	210×110	76	**115-2050**
Medical wipes, 2 ply	440×235	32 Pack	**115-1275**

Wipes for delicate tasks, WYPALL* X60
Kimberly-Clark

Durable uniformly reinforced towels for demanding jobs. Can be used in medium to heavy duty applications.

- Embossed surface traps and holds dirt and liquids
- No adhesives or binders; wipes leave nothing behind
- Tough enough for big jobs, yet soft enough for face and hands
- Rolls can be used with dispensers 115-0045, 115-1533 or 115-2038

Colour: White or blue

Colour	L×W (mm)	Packed	Pk	Cat. No.
White	365×315	12 cartons of 76 sheets	912	**115-2063**
White	410×380	1 roll of 750 sheets	1 Roll	**115-2058**
White	425×230	10 boxes of 126 sheets	10	**115-2230**
White	420×310	1 box of 200 sheets	200	**115-2166**
Blue	365×315	12 cartons of 76 sheets	912	**115-1280**
Blue	380×310	1 roll of 500 sheets	1 Roll	**115-1279**
Blue	420×245	1 roll of 150 sheets in MultiBox	1 Roll	**115-1988**
Blue	420×310	1 box of 200 sheets	200	**115-2104**

Wipes for delicate tasks, KIMTECH SCIENCE*
Kimberly-Clark

115-2064

115-2221

These precision wipes are specifically designed for the cleaning and wiping of delicate surfaces such as lenses, slides and optical instruments. The wipes are suitable for use within laboratories in both the manufacturing and healthcare sectors, and in a variety of industries including optical, laser and electronics.

- Made from 100% pure fibre, giving more absorbency and a softer feel
- Chemically inert allowing use with solvents and chemicals
- Low linting, ideal for delicate cleaning areas
- Pop-up box for easy dispensing of single wipes

Colour: White

Description	L×W (mm)	Packed	Pk	Cat. No.
7102, laboratory wipes, 2 ply	210×200	33 cartons of 100 sheets	3.300	**115-2064**
7216, laboratory wipes, 2 ply	205×200	24 cartons of 200 sheets	4.800	**115-2235**
7551, precision wipes, 1 ply	300×300	15 cartons of 196 sheets	2.940	**115-2029**
7552, precision wipes, 1 ply	213×114	30 cartons of 280 sheets	8.400	**115-2221**

Wipes for delicate tasks, Multisoft

Cellulose, reusable

Soft non woven cloths made of Airlaid material, ideal for sensitive applications.

- Solvent resistant and highly absorbent
- Tear resistant, voluminous and lint-free
- Packed in convenient dispensing box for single sheet dispensing

Colour: White

L×W (mm)	Packed	Pk	Cat. No.
340×320	Pack of 25	25	**115-2726**
340×320	20 packs of 25	500	**115-2727**

Sponge, Scotch-Brite™
3M

For effective abrasion of dirt from sensitive surfaces.

- Coated with an easily cleaned plastic structure
- Hand-grip shape facilitates use

LxW (mm)	Pk	Cat. No.
130×70	10	**115-3003**

Scourers, non scratch
Vileda Professional

These foam backed sponges with open soft white fleece without abrasives are ideal for basic cleaning of sensitive surfaces.

- Colour coding system enables cleaning process according to hygiene standards and HACCP principles
- Foam backing is soft to the hands, gives a good grip and enhances ergonomics
- Washable up to 60 °C

Description	LxW (mm)	Pk	Cat. No.
Scourer, green	150×70	10	**129-0795**
Scourer, blue	150×70	10	**129-0796**
Scourer, red	150×70	10	**129-0797**
Scourer, yellow	150×70	10	**129-0798**

Scouring pad, "Strong"
Vileda Professional

High quality abrasive scourer with easy grip foam backing and green scouring surface, ideal for general washing-up and mark removal.

- Foam backing is soft to the hands and enhances ergonomics
- Suitable for many kinds of surfaces
- Washable up to 60 °C

Description	LxW (mm)	Pk	Cat. No.
Abrasive foam backed scourer, yellow/ green	150×70	10	**129-0794**

VWR COLLECTION

SELECTED FOR YOU

Disinfectant wipes

Fleece wipes in dispenser, soaked in disinfecting solution. Optimum protection against fungi, bacteria and viruses.

- For disinfection* of surfaces
- For simple disinfection of hands

Kills bacteria: In accordance with EN 1040 and NF T 72-151. NF T 72-171. NF T 72-190

Kills fungi: In accordance with EN 1275

Kills viruses: In accordance with NF T 72-180 for polio, herpes and adenovirus, and in accordance with NF T 72-181 for T2, MS2

Colour: White

LxW (mm)	Packed	Pk	Cat. No.
150×220	120 per dispenser	120	**115-8133**

* Does not serve as a substitute for an immersion or sterilising bath

Disinfectant surface wipes, Distel

The formulation of Distel wipes is based on a unique carrier technology enabling the active ingredients to be carried rapidly through cell walls of microorganisms. The synergistic blend of active ingredients produces the fastest acting and most efficient virucidal and sporicidal disinfectant available in non-oxidising technology. This allows both rapid and effective results, and makes it safer to use than conventional products.
Distel wipes are suitable for use on most hard surfaces in high risk areas to destroy bacteria, viruses, fungi and mycobacteria and to denature DNA/RNA. Intended for use on hard surfaces of non-invasive, non-lumened medical devices such as monitors, IV poles, beds, patient trolleys, ultrasound and X-ray equipment.

Concentrate dilution 1:100: Wipes are suitable for heavily soiled and/or high risk areas.
Concentrate dilution 1:10: Wipes can be used in the presence of blood, body spills and bio-hazards.

- Fast acting, simple and effective disinfectant
- Colourless and odourless
- Shelf life for tubs: 2 years; for individual sachets: 3 years
- Active constituents are approved under European Biocidal Products Directive (ref 98/8/EC) and REACH compliance
- Conforms to the medical device directive 93/42/EEC and 2007/47/EEC amendments
- Product is biodegradable under OECD guidelines

Ordering information: Available in 100 or 200 wipe tubs, or in individual sachet format.

Bactericidal activity	Pseudomonas aeruginosa, Campylobacter spp, Staphylococcus spp, Streptococcus spp, Leptospira spp, Escherichia coli, Enterococcus spp , Klebsiella spp, Salmonella spp, Listeria monocytogenes, Legionella spp, Proteus vulgaris, Rhodococcus spp, Serratia spp, Shigella spp, Helicobacter pylori, MRSA Mycobacterium tuberculosis, Mycobacterium terrae, Mycobacterium avium
Fungicidal activity	Aspergillus niger, Trichophyton spp, Candida spp
Virucidal activity	Coronavirus (SARS), Adenovirus type 5, Influenza, H5NI

Description	LxW (mm)	Packed	Pk	Cat. No.
Surface disinfectant wipe, 1:100, non-fragranced sachet	155×110	Sachet of 250 wipes	250	**115-1770**
Surface disinfectant wipes, 1:10, non-fragranced	185×135	12 tubs of 100 regular wipes	12	**115-1771**
Surface disinfectant wipes 1:10, non-fragranced	220×200	6 tubs of 200 large wipes	6	**115-1772**

Disinfectant wipes

Non-woven wipes for disinfection of clinical hard surfaces. Store away from heat and do not expose to naked flame.

- Impregnated with 70% v/v solution of isopropyl alcohol BP

Packaging: Supplied in dispensing tub.

LxW (mm)	Packed	Pk	Cat. No.
220×210	In dispenser	200	**115-0709**

Disinfectant wipes, irradiated, Azowipe™

These non woven wipes made of viscose rayon are ideal for the disinfection of hard surfaces. Isopropyl alcohol, the active component of Azowipe™, is acknowledged by leading authorities to be an effective medium for the routine disinfecting of clinical surfaces. It kills bacteria in under a minute - proven to be effective against a variety of organisms including MRSA.

- Convenient for use in all clinical environments
- Gamma irradiated, sealed and sterilised in double polythene bags; with irradiation dot
- Specially designed canister for easy dispensing
- Foil sealed - prevents evaporation in storage
- Contain no preservatives - no smearing or streaking when in use

Packaging: 200 wipes per tub dispenser. Each tub dispenser is double bagged and affixed with a Gamma Ray Indicator Dot.

L×W (mm)	Packed	Pk	Cat. No.
200×220	200 wipes/dispenser, 12 dispenser/pack	12	**115-1773**

Wipes, KIMTECH PREP* WETTASK*
Kimberly-Clark

This refillable wet wiping system is the ideal alternative to using a spray bottle or open bucket in combination with a rag, making it easy to use and versatile. Two different types, depending on application:

SXX for working with solvents, very strong and absorbent rayon/polyester, no loose fibres. Solvent resistant won't break down when wet. Low-lint level – suitable for critical tasks.

DS/DSX for use with sanitisers/disinfectants. Leaves some disinfectant/sanitiser on the surface that has been wiped allowing it to work throughly.

- Closed-bucket system keeps the pre-moistened wipes fresh in the container and avoids contamination
- Designed to be compatible with quaternary amine disinfectants
- Reduces exposure to chemical vapours, splashes and spills

Colour: White

Description	L×W (mm)	Pk	Cat. No.
DS wipes, small roll refill, 35 sheets/roll, incl. dispenser box	315×305	12 Roll	**115-0565**
DSX wipes, 90 sheets/roll	318×305	6 Roll	**115-1997**
SSX wipes, 60 sheets/roll	318×305	6 Roll	**115-1998**
DS wipes roll refill, 90 sheets/roll	315×305	6 Roll	**115-1558**

Description	For	Pk	Cat. No.
Dispensers for KIMTECH* WETTASK* wipes			
Dispenser bucket, 4.5 l, blue	SSX/DSX wipes	4	**115-1999**
Dispenser bucket, 3 l, white	DS wipes	1	**115-1562**

Wipes, pre-wetted, Sterile TechniSat®
ITW Texwipe

These wipes constructed from a hydroentangled polyester/cellulose blend are pre-wetted with 70% isopropyl alcohol and packaged in a resealable flexpack. Each package is gamma irradiated to 10^{-6} Sterility Assurance Level. Ideal for alcohol wiping in sterile environments in pharmaceutical aseptic fill areas, biotechnology manufacturing facilities, microbiological laboratories, sterile suites and prep rooms.

- Binder-free, hydroentangled polyester/cellulose substrate
- Packaging permits alcohol wipedown of exterior bag before introduction into sterile suites
- Offers low levels of solvent extractables and particle generation
- Ideal for wiping gloved hands

Colour: White

L×W (mm)	Packed	Pk	Cat. No.
280×230	50 wipes/FlexPack	50	**115-1777**
280×230	20 wipes/FlexPack, 24 FlexPacks/case	480	**115-0314**

Impregnated wipes, sterile, Klerwipe™ 70/30

These surface wipes are impregnated with either 70% IPA, 70% Denatured Ethanol (IMS), silicone or with a Klerclean Neutral Detergent. The 100% polyester wipes are made of circular knit polyester. The low particulate wipes are made from a binder-free, hydroentangled cellulose/polyester blend and tub wipes are low particulate non woven wipes. All wipes are highly absorbent and allow a rapid clean down of surfaces, equipment and production components.

- Using impregnated wipes eliminates overspraying of alcohol, reducing the risk of inhalation, especially in tight working spaces
- Suitable for direct product contact use: no undesirable residues remain after usage
- Choice of different pakaging types to suit different purposes
- PE pouches features "Klertear" which makes it easy to open even when wearing gloves
- Pouch is easily resealable to prevent the wipes drying out

Packaging: All wipes are packed and double bagged in a Grade C (ISO Class 7) cleanroom. They are available in PE pouches, sachets or tub dispensers. Some wipes are also available in vaporised hydrogen peroxide impermeable packaging (VHP) for use in gassing isolators.

Description	L×W (mm)	Packed	Pk	Cat. No.
100% polyester wipes, IPA				
100% polyester wipe (115 g/m^2), 70% IPA	200×200	20 packs × 15 wipes	300	**115-0534**
Low particulate pouch wipes, IPA/IMS				
Low particulate wipes, 70% IPA	200×200	20 packs × 15 wipes	300	**115-0524**
Low particulate wipes, 70% IMS	200×200	20 packs × 15 wipes	300	**115-0525**
Low particulate tub wipes, IPA/IMS				
Low particulate wipes (42 g/m^2), 70% IPA	200×230	15 tubs × 100 wipes	1.500	**115-0532**
Low particulate wipes (42 g/m^2), 70% IMS	200×230	15 tubs × 100 wipes	1.500	**115-0452**
Low particulate wipes (22 g/m^2), 70% IPA	200×230	15 tubs × 200 wipes	3.000	**115-0450**
Low particulate wipes (22 g/m^2), 70% IMS	200×230	15 tubs × 200 wipes	3.000	**115-0451**
Low particulate wipes, silicone				
Low particulate wipes, silicone	200×200	20 packs × 15 wipes	300	**115-0531**
Low particulate wipes, Klerclean Neutral Detergent				
Low particulate wipes, neutral detergent	200×200	20 packs × 15 wipes, VHP packaging	300	**115-0530**

Wipes for hand and surface cleaning, pre-saturated, Tork
SCA

Pre-moistened wipes made from a viscose and polyester mix. The single ply wipes are tough on grease and dirt but gentle enough on skin to use several times a day without risking dryness or irritation to skin.

- Convenient, portable and recyclable dispensing container: Wipes are easy to dispense
- Waterless cleaning: Tough on grease and dirt
- Kind to skin and fragrance-free

Colour: White

Description	L×W (mm)	Packed	Pk	Cat. No.
Wet Wipe - hand cleaning wipes in bucket	270×270	Bucket, each roll with 58 folded sheets	4	**115-0583**
Wet Wipe - surface cleaning wipes in bucket	270×270	Bucket, each roll with 58 folded sheets	1	**115-0645**

Wipes, pre-saturated, Kresto Kwik-Wipes®
Stoko

These polypropylene wipes are moistened with a cleansing solution that is ideal for fast cleansing and pre-cleansing after contact with heavy-duty contamination such as waste mineral and lubricating oils, graphite, metallic dust and carbon black.

- Ideal for workplaces where there is no water available for cleaning hands
- Slightly roughened surface provides consistent and reliable cleansing power
- Non soapy wipes: Help to stop the skin swelling
- Slightly acidic pH value helps to maintain the natural acidic protective mantle

Description	L×W (mm)	Packed	Pk	Cat. No.
Hand cleansing wipes, white	260×300	In bucket, 70 wipes each	4	**115-1473**

Cleanroom wipes, non woven, Spec-Wipe® 3

Suitable for use in Class 100, ISO 5 cleanrooms.

Designed for cleaning laminar flow benches, cleanroom surfaces, quartzware and general process equipment. Appropriate for electronics, pharmaceutical, biotechnology, chemical and petroleum, environmental and education industries. Non textured.

- 45% polyester, 55% cellulose
- Re-sealable pouches maintain product integrity, preserve cleanliness and saturation levels
- Option of pre-saturated wipes, which reduce solvent use, chemical blending and waste
- Hydroentangled without using chemicals, reduces ionic contamination

Colour: White

Model	Spec-Wipe® 3
Absorbency - extrinsic (ml/m^2)	335
Absorbency - intrinsic (ml/g)	4.82
Absorbency - rate (s)	1
Basis weight (g/m^2)	67
Extractables - using deionised water (g/m^2)	0.056
Extractables - using isopropyl alcohol (g/m^2)	0.015
Fibres (>100 µm) (×10^3/m^2)	14.8
Ions - chloride (ppm)	7.8
Ions - sodium (ppm)	11.2
Particle generation - 0.5-5 µm (×10^6/m^2)	17.1

Description	L×W (mm)	Packed	Pk	Cat. No.
Spec-Wipe® 3	229×229	300/bag	300	**115-0031**
Spec-Wipe® 3	305×305	150/bag	150	**115-0032**
Spec-Wipe® 3, saturated with 70% IPA, 30% deionised water	229×229	75/bag	75	**115-0034**

Properties above reflect the data for the wipe in an unsaturated state. Wipes are manufactured using USP grade IPA (isopropanol) filtered to 5 µm.

Cleanroom wipes, non woven, sterile, Spec-Wipe® 3

Suitable for use in Class 100, ISO 5, M3.5 cleanrooms.

Designed for cleaning laminar flow benches, cleanroom surfaces, quartzware and general process equipment. Appropriate for electronics, pharmaceutical, biotechnology, chemical and petroleum, environmental, and education industries. Non textured.

- Hydroentangled without using chemicals, reduces ionic contamination
- Sterilised by gamma radiation to SAL (Sterility Assurance Level) of 10^{-6}

In accordance with ANSI/AAMI/ISO 11137 and AMMI TIR 27 Method VDmax guidelines.

Colour: White

Model	Spec-Wipe® 3
Absorbency - extrinsic (ml/m^2)	335
Absorbency - intrinsic (ml/g)	4.82
Absorbency - rate (s)	1
Basis weight (g/m^2)	67
Extractables - using deionised water (g/m^2)	0.056
Extractables - using isopropyl alcohol (g/m^2)	0.015
Fibres (>100 µm) (×10^3/m^2)	14.8
Ions - chloride (ppm)	7.8
Ions - sodium (ppm)	11.2
Particle generation (>=0.5 µm) (×10^6/m^2)	17.1

Description	L×W (mm)	Packed	Pk	Cat. No.
Spec-Wipe® 3	300×300	20 wipes per pouch, 5 pouches per bag	100	**115-0033**

Properties above reflect the data for the wipe in an unsaturated state. Wipes are manufactured using USP grade IPA (isopropanol) filtered to 5 µm.

Cleanroom wipes, Spec-Wipe® 4

Suitable for use in Class 10, ISO Class 4 cleanrooms.

Excellent for cleaning rough, abrasive, or irregular surfaces, yet soft enough for delicate surfaces. Appropriate for electronics, pharmaceutical, biotechnology, chemical and petroleum, environmental and education industries.

- For critical process cleaning and environments where low particle and fibre generation is critical
- Made from 100% double-knit polyester laundered in ISO Class 4 cleanroom to reduce particulate and extractable contaminants
- Durable double-knit allows rigorous cleaning, is also soft for delicate surfaces
- Re-sealable pouches maintain product integrity, preserve cleanliness and saturation levels
- Option of pre-saturated wipes, which reduce solvent use, chemical blending and waste

Packaging: Half-folded wipes are packaged in a re-sealable pouch.

Colour: White

Model	Spec-Wipe® 4
Absorbency - extrinsic (ml/m^2)	312
Absorbency - intrinsic (ml/g)	2.3
Absorbency - rate (s)	<1.5
Basis weight (g/m^2)	136
Extractables - using deionised water (g/m^2)	0.042
Extractables - using isopropyl alcohol (g/m^2)	0.015
Fibres (>100 µm) (×10^3/m^2)	3.3
Ions - chloride (ppm)	0.45
Ions - sodium (ppm)	0.39
Particle generation (>=0.5 µm) (×10^6/m^2)	4.8

Description	L×W (mm)	Packed	Pk	Cat. No.
Spec-Wipe® 4	229×229	150 per bag	150	**115-0036**
Spec-Wipe® 4, saturated with 70% IPA, 30% deionised water	229×229	30 per bag	30	**115-0039**

Properties above reflect the data for the wipe in an unsaturated state. Wipes are manufactured using USP grade IPA (isopropanol) filtered to 0,5 µm.

Cleanroom wipes, sterile, Spec-Wipe® 4

Suitable for use in Class 10, ISO 4, M2.5 cleanrooms.

These wipes made of double woven polyester fabric with close-cut edges are washed in ISO class 4 cleanrooms to minimise contamination by particles and extractables. Ideal for cleaning abrasive surfaces, yet still soft enough for use on sensitive surfaces.

- For critical process cleaning and environments where sterility, low particle and fibre generation are critical
- Gamma sterilised to 10^{-6} SAL (Sterility Assurance Level)
- Resealable pouches to protect wipes from contamination

Compliant with ANSI/AAMI/ISO guidelines

Colour: White

Model	Spec-Wipe® 4
Absorbency - extrinsic (ml/m^2)	312
Absorbency - intrinsic (ml/g)	2,3
Absorbency - rate (s)	<1.5
Basis weight (g/m^2)	136
Extractables - using deionised water (g/m^2)	0.042
Extractables - using isopropyl alcohol (g/m^2)	0.015
Fibres (>100 µm) (×10^3/m^2)	3.3
Ions - chloride (ppm)	0.045
Ions - sodium (ppm)	0.39
Particle generation (>=0.5 µm) (×10^6/m^2)	4.8

Description	L×W (mm)	Packed	Pk	Cat. No.
Spec-Wipe® 4	305×305	100/bag	300	**115-1724**

Cleanroom wipes, non woven, Spec-Wipe® 5

Suitable for use in Class 100, ISO 5 cleanrooms.

Treated 45% polyester/55% cellulose non woven wipes. Ideal for cleaning of surfaces and laminar flow benches, absorbing spills of water and most common solvents and general all-purpose cleaning.

- Polyester/cellulose combination, improves absorbency
- Hydroentangled giving a durable wipe with less particulation
- Durable wipe that produces less particulation than some other non woven methods
- Specially treated to reduce particles

Colour: White

Model	Spec-Wipe® 5
Absorbency - extrinsic (ml/m^2)	264
Absorbency - intrinsic (ml/g)	3,93
Absorbency - rate (s)	1
Basis weight (g/m^2)	67
Extractables - using deionised water (g/m^2)	0,0207
Extractables - using isopropyl alcohol (g/m^2)	0,0647
Fibres (>100 µm) (×10^3/m^2)	27,1
Ions - chloride (ppm)	47,81
Ions - sodium (ppm)	67,21
Particle generation (>=0.5 µm) (×10^6/m^2)	14,3

Description	L×W (mm)	Packed	Pk	Cat. No.
Spec-Wipe® 5	229×229	300 per bag	300	**115-0041**

Cleanroom wipes, Spec-Wipe® 7

Suitable for use in Class 1, ISO Class 3 cleanrooms.

Ideal for cleaning rough or uneven surfaces, yet still soft enough for use on sensitive surfaces. Use these 100% double-knit polyester wipes where minimum particle and fibre contamination is essential.

- Double-knit for extreme durability, continuous single filaments for extra softness
- Sealed edges prevent release of fibres and lint
- Laundered in an ISO Class 4 cleanroom to reduce particulate and extractable contaminants

Colour: White

Model	Spec-Wipe® 7
Absorbency - extrinsic (ml/m^2)	312
Absorbency - intrinsic (ml/g)	2,3
Absorbency - rate (s)	<1,5
Basis weight (g/m^2)	136
Extractables - using deionised water (g/m^2)	0,015
Extractables - using isopropyl alcohol (g/m^2)	
Fibres (>100 µm) (×10^3/m^2)	0,6
Ions - chloride (ppm)	0,13
Ions - sodium (ppm)	0,11
Particle generation (>=0.5 µm) (×10^6/m^2)	4,8

Description	L×W (mm)	Packed	Pk	Cat. No.
Spec-Wipe® 7	229×229	100 wipes/bag	100	**115-0043**
Spec-Wipe® 7	305×305	100 wipes/bag	100	**115-0044**

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Cleanroom wipes

Suitable for use in class 1, ISO 3, M1.5 environments.

These cleanroom wipes are made from 100% virgin grade, continuous-filament polyester in a double-knit, no-run interlock pattern to provide maximum cleanliness and absorbency. Designed for cleaning surfaces and controlling spills in ISO class 3 or higher cleanroom environments, these durable wipes resist fibre release and abrasion under rigorous use, even when wiping rough surfaces.

- Laser cut with sealed edges
- Minimum particles, fibres, extractables and ions: Ideal for environments that demand low levels of contaminants
- Ultra-clean, highly absorbent and durable
- Economical
- Cleanroom laundered and packaged (ISO class 4)

Colour: White

Absorbency - extrinsic (ml/m^2)	350
Absorbency - intrinsic (ml/g)	2,5
Absorbency - rate (s)	<1
Basis weight (g/m^2)	135 ±5
Extractables - using deionised water (g/m^2)	<0,01
Extractables - using isopropyl alcohol (g/m^2)	<0,02
Fibres (>100 µm) (m^2)	400
Ions - chloride (ppm)	<0,05
Ions - potassium (ppm)	<0,02
Ions - sodium (ppm)	<0,21
Particle generation (>=0.5 µm) (×10^6/m^2)	4,2

L×W (mm)	Packed	Pk	Cat. No.
229×229	150/bag	150	**115-0660**
305×305	150/bag	150	**115-0661**

All test results obtained according to Institute for Environmental Sciences and Technology standard IEST-RP-CC004.3. The data shown in this entry represent typical values at the time of publication.

Cleanroom wipes, pre-saturated, Basan

These economical wipes made of 100% polypropylene in a triple layer construction are impregnated with a 70/30 solution of IPA (Isopropyl Alcohol) and DI water and provide excellent cleaning and disinfection of hard surfaces. They are ideal for cleaning cleanrooms and other areas where contamination control is important.

- Ideal for hard surface disinfection in medical, healthcare and laboratory environments
- Can be used to pre-clean or decontaminate surfaces prior to sterilisation or high level disinfection
- Fabric provides excellent release properties to lay disinfectants on surfaces plus reabsorb dissolved soils
- Available as standard and double-bagged irradiated version

Wipes are effective against gram-positive and gram-negative bacteria and most viruses and fungi, such as MRSA, SARS, VRE, Salmonella, HIV and TB.

Weight: 18 g/m^2

Packaging: 200 wipes per cleanroom compatible plastic tub. Irradiated version is double bagged and supplied with a certificate of irradiation

Type	L×W (mm)	Packed	Colour	Pk	Cat. No.
Regular (non irradiated)	200×200	200 wipes/tub; 1 tub/case	White	1	**115-1778**
Irradiated	200×200	200 wipes/tub; 12 tubs/case	White	12	**115-1794**

Cleanroom wipes, pre-saturated, PROSAT®
Contec

Suitable for use in Class 100, ISO 5, M3,5 environments.

These non woven wipes are made of meltblown polypropylene pre-saturated with 70% semiconductor-grade isopropanol and 30% deionised water. They are ideal for general surface cleaning and for wiping process tools and other equipment before entering the cleanroom.

- Very low levels of sodium and other ions
- Help to reduce solvent usage and VOC emissions
- Resealable pouch preserves cleanliness and solvent saturation levels

Colour: White

Ordering information: Pouches are individually lot-numbered for traceability.

Model	PROSAT®
Basis weight (g/m^2)	36
Extractables - using deionised water (g/m^2)	0,01

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Extractables - using isopropanol (g/m²)	0,07
Fibres (>100 µm) (×10³/m²)	6,3
Ions - chloride (ppm)	5,0
Ions - sodium (ppm)	3,0
Particle generation (>=0.5 µm) (×10⁶/m²)	5,1

Description	L×W (mm)	Packed	Pk	Cat. No.
PROSAT® 850	203×203	50 per pouch, 50 pouches per case	2.500	**115-0269**
PROSAT® 911	279×229	30 per bag	30	**115-0270**

Cleanroom wipes, pre-saturated, Prosat®
Contec

Suitable for use in Class 100, ISO 5, M3.5 environments.

These non woven PP wipes are saturated with 70% denatured ethyl alcohol and 30% deionised water. They are ideal for cleaning or wiping of process tools and other equipment and cleanup following Rhodac plate sampling.

- Ethyl alcohol is specially denatured alcohol formula 3A Industrial Methylated Spirits (IMS)
- Increase solvent control and accountability, reduce VOC emissions
- Pouch opens easily and wipes are readily dispensed
- Available sterile and non sterile

Colour: White

Packaging: Packaged in resealable pouches to preserve cleanliness and solvent saturation levels. Pouches are individually lot-numbered for traceability.

Model	PROSAT® 911EtOH
Basis weight (g/m²)	36
Extractables - using deionised water (g/m²)	0,011
Extractables - using isopropyl alcohol (g/m²)	0,070
Fibres (>100 µm) (×10³/m²)	10,4
Ions - chloride (ppm)	5,0
Ions - sodium (ppm)	3,0
Particle generation (>=0.5 µm) (×10⁶/m²)	35,0

Description	L×W (mm)	Packed	Pk	Cat. No.
Prosat® 911EB/EtOH, sterile	229×279	30 per pouch	1.440	**115-0546**
Prosat® 911EtOH, non sterile	229×279	30 per pouch	30	**115-1422**

Cleanroom wipes, pre-saturated, sterile, Prosat® Sterile™
Contec

Suitable for use in Class 100, ISO 5, M3.5 environments.

These meltblown PP wipes are saturated with a 70% isopropyl alcohol/30% deionised water blend and are sterilized by Gamma Irradiation. Ideal for cleanup following Rhodac plate sampling as well as for routine wiping tasks such as cleaning surfaces, equipment and instruments.

- Polypropylene wipe is exceptionally clean, free from additives of any kind
- Very low concentration of sodium
- Increased solvent control and accountability
- Pouch with tamper evident label opens easily and the wipes are readily dispensed
- Microsized filaments provide exceptional particle removal
- Validated sterile to a Sterility Assurance Level of 10⁻⁶ in accodance with standards and recommended practices of the AAMI Guidelines

Colour: White

Packaged in resealable pouches to preserve cleanliness and solvent saturation levels. Pouches are individually lot-numbered for traceability.

Model	PROSAT® 911EB / PP0039
Basis weight (g/m²)	36
Extractables - using deionised water (g/m²)	0.0110
Extractables - using isopropyl alcohol (g/m²)	0,070
Fibres (>100 µm) (×10³/m²)	6.3
Ions - chloride (ppm)	5,0
Ions - sodium (ppm)	3,0
Particle generation (>=0.5 µm) (×10⁶/m²)	35.0

Description	L×W (mm)	Packed	Pk	Cat. No.
Prosat® 911EB	229×279	30 per pouch	1.440	**115-0487**

Cleanroom wipes, KIMTECH PURE* CL4
Kimberly-Clark

Suitable for use in Class 10, ISO 4, M2.5 cleanrooms.

Wipes made from 100% PP are ideal for special cleaning applications in critical areas thanks to their thermal bonding (i.e. no adhesive or binding agent).

- Delivered double-packed
- Cut edges
- Resistant to acids, alkalis and solvents

Colour: White

Model	CL4
Absorbency (ml/m²)	445
Absorbency - rate (s)	1,4
Extractables - using H_2O (%)	0,22
Extractables - using isopropyl alcohol (%)	1,27
Fibres (>100 µm/cm²)	6,3×103/m²
Ions - chloride (ppm)	36
Ions - potassium (ppm)	5,3
Ions - sodium (ppm)	87,9
Particle generation (>=0.5 µm) (×10⁶/m²)	13×106/m²

Description	L×W (mm)	Packed	Pk	Cat. No.
CL4	305×305	1 carton of 500 sheets	500	**115-2163**
CL4	230×230	1 carton of 500 sheets	500	**115-1277**

Cleanroom wipes, TechniCloth®
ITW Texwipe

Suitable for use in Class 1000, ISO 6, M4.5 environments.

TechniCloth® wipes are made from a hydroentangled, non woven blend of 55% cellulose and 45% polyester. This fabric blend combines the highly absorbent properties of a natural fibre with the cleanliness and strength of a synthetic wipe. With low particle counts, low extractable levels and solvent compatibility, TechniCloth® is ideal for general wiping and spill control in controlled environments.

- Designed for general purpose wiping where economy and cleanliness are of critical importance
- Ideal for applications where high absorbency and low extractables are prime considerations
- Excellent for picking up aqueous spills

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Colour: White

Model	TechniCloth®
Absorbency (water) (ml/m²)	360
Absorbency - rate (s)	<0,3
Basis weight (g/m²)	69
Extractables - using deionised water (g/m²)	0,03
Extractables - using isopropyl alcohol (g/m²)	0,01
Fibres (>100 µm) (m²)	55000
Ions - chloride (ppm)	16
Ions - potassium (ppm)	1,0
Ions - sodium (ppm)	34
Particle generation (ASTM E2090) - 0.5-5 µm (×10⁶/m²)	20
Particle generation (ASTM E2090) - 5-100 µm (×10⁶/m²)	0,997

Description	L×W (mm)	Packed	Pk	Cat. No.
TechniCloth®	100×100	1200 wipes/bag, 10 bags/case	12.000	**115-0317**
TechniCloth®	150×150	600 wipes/bag, 10 bags/case	6.000	**115-0318**
TechniCloth®	230×230	300 wipes/bag, 10 bags/case	3.000	**115-0319**
TechniCloth®	310×310	150 wipes/bag, 10 bags/case	1.500	**115-0320**

Cleanroom wipes, MiracleWipe®
ITW Texwipe

Suitable for use in Class 100, ISO 5, M3.5 cleanrooms.

MiracleWipe® is made from 100% continuous-filament nylon. The double-knit construction, texture and body of the nylon filament give the wipes excellent softness and superior strength.

- Excellent tensile strength, elasticity and durability
- Ultra-low particulate generation and low extractable levels help prevent product and cleanroom contamination
- Soft, non abrasive surface

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Colour: White

Absorbency (water) (ml/m²)	530
Absorbency - rate (s)	<1
Basis weight (g/m²)	180
Extractables - using deionised water (g/m²)	0,67
Extractables - using isopropyl alcohol (g/m²)	0,35
Fibres (>100 µm) (m²)	2000
Ions - chloride (ppm)	0,5
Ions - potassium (ppm)	0,50
Ions - sodium (ppm)	0,22
Particle generation (ASTM E2090) - 0.5-5 µm (×10⁶/m²)	15
Particle generation (ASTM E2090) - 5-100 µm (m²)	200000

Description	L×W (mm)	Packed	Pk	Cat. No.
MiracleWipe®	100×100	600 wipes/bag	600	**115-0476**
MiracleWipe®	230×230	150 wipes/bag	150	**115-0477**
MiracleWipe®	310×250	200 wipes/bag	200	**115-0478**

STERILE

Cleanroom wipes, sterile, SterileWipe™ HS II
ITW Texwipe

Suitable for use in Class 1000, ISO 6, M4.5 cleanrooms.

SterileWipe™ HS II is a non woven cellulose/polyester-blend wipe offering both durability and absorbency. It is an excellent general purpose sterile wipe in areas where economy and cleanliness are of critical importance. Designed for cleaning and polishing equipment and environmental surfaces during and following production flow.

- Hydroentangled and binder-free wipe with high sorbency and strength
- Absorbent wipe combines low particle counts and extractable levels with high degree of solvent compatibility
- Sterilised by gamma radiation to a 10^{-6} SAL (Sterility Assurance Level) in accordance with AAMI guidelines
- Expiry-dated and supplied with lot-specific Certificates of Irradiation and Compliance
- Ideal for spill control and for wiping down in sterile gowning rooms

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Colour: White

Model	SterileWipe™ HS II
Absorbency (water) (ml/m²)	320
Absorbency - rate (s)	<0,3
Basis weight (g/m²)	69
Extractables - using deionised water (g/m²)	0,03
Extractables - using isopropyl alcohol (g/m²)	0,01
Fibres (>100 µm) (×10⁵/m²)	70
Particle generation (ASTM E2090) - 0.5-5 µm (×10⁶/m²)	28
Particle generation (ASTM E2090) - 5-100 µm (×10⁶/m²)	1,15

Description	L×W (mm)	Packed	Pk	Cat. No.
SterileWipe™ HS II	310×310	5 inner bags of 20 wipes, 5 bags/case	500	**115-0311**

Cleanroom wipes, AlphaWipe®
ITW Texwipe

These premium heavy weight all-purpose wipes are made from 100% continuous-filament polyester in a double-knit, no-run, interlocked pattern. Soft and non abrasive, they are ideal for critical environments where contamination control is essential.

- Ultra-low particulate and fibre levels
- Excellent for sensitive surfaces
- Superior strength guards against abrasion under rigorous use

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Colour: White

Packaging: Wipes are cleanroom laundered and packed in solvent-safe Bag-Within-A-Bag packaging.

Model	AlphaWipe®
Absorbency (water) (ml/m^2)	530
Absorbency - rate (s)	0,5
Basis weight (g/m^2)	158
Extractables - using deionised water (g/m^2)	0,02
Extractables - using isopropyl alcohol (g/m^2)	0,04
Fibres (>100 µm) (m^2)	2000
Ions - chloride (ppm)	0,05
Ions - potassium (ppm)	0,06
Ions - sodium (ppm)	0,22
Particle generation (ASTM E2090) - 0.5-5 µm (×10^6/m^2)	10
Particle generation (ASTM E2090) - 5-100 µm (m^2)	200000

Description	L×W (mm)	Packed	Pk	Cat. No.
AlphaWipe®	100×100	Bag-within-a-Bag (solvent safe)	300	**115-0496**
AlphaWipe®	230×230	Bulk (75 wipes/inner bag; 150 wipes/bag; 10 bags/case)	1.500	**115-1769**
AlphaWipe®	230×230	Bag-within-a-Bag (solvent safe)	1.500	**115-0295**
AlphaWipe®	310×280	Bag-within-a-Bag (solvent safe)	250	**115-0453**
AlphaWipe®	310×310	Bag-within-a-Bag (solvent safe)	75	**115-0454**

Cleanroom wipes, AlphaSorb® HC
ITW Texwipe

Suitable for use in class 1, ISO 3, M1.5 cleanrooms.

AlphaSorb® HC is a cleanroom laundered, 2 ply, 100% polyester wipe made from continuous-filament polyester knitted in a double-knit interlock pattern. Developed specifically for the pharmaceutical industry and other critical environments where high absorbency is required. Autoclavable.

- Combine high sorbency with low particle and extractable levels
- Allow rigorous wiping with minimal release of fibres
- Also available sterile (Please refer to VWR website for ordering information)

Data accurate at time of publishing, latest test results and test methods can be found on suppliers website.

Colour: White

Model	AlphaSorb® HC
Absorbency (water) (ml/m²)	680
Absorbency - rate (s)	1
Basis weight (g/m²)	240
Extractables - using deionised water (g/m²)	0,01
Extractables - using isopropyl alcohol (g/m²)	0,02
Fibres (>100 µm) (m²)	500
Ions - chloride (ppm)	0,02
Ions - potassium (ppm)	
Ions - sodium (ppm)	0,05
Particle generation (ASTM E2090) - 0.5-5 µm (×10⁶/m²)	2,5
Particle generation (ASTM E2090) - 5-100 µm (m²)	95000

Description	L×W (mm)	Packed	Pk	Cat. No.
AlphaSorb® HC	310×310	100 wipes/bag, 6 bags/case	600	**115-0307**
AlphaSorb® HC	460×460	100 wipes/bag	100	**115-0467**

Cleanroom wipes, pre-saturated, AlphaSat®
ITW Texwipe

These highly sorbent wipes are constructed from 100% continuous-filament polyester in a double-knit, no-run interlock pattern. The wipes are pre-wetted with 70% IPA and 30% deionised water. Ideal for general wiping, spill control, polishing and cleaning in critical environments (ISO class 4 - 9).

- Superior strength with low particle generation and low extractable levels
- Laundered cut edge
- Excellent chemical and abrasion resistance

Colour: White

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Packaging: Solvent-safe, reclosable packaging.

Model	AlphaSat®
Absorbency (ml/m²)	530
Absorbency - rate (s)	0,5
Basis weight (g/m²)	158
Extractables - using deionised water (g/m²)	0,02
Extractables - using isopropyl alcohol (g/m²)	0,04
Ions - chloride (ppm)	0,05
Ions - potassium (ppm)	0,06
Ions - sodium (ppm)	0,22
Particle - 0.5-5 µm	10×10⁶/m²
Particle - Fibres (>100 µm/cm²)	2000

Description	L×W (mm)	Packed	Pk	Cat. No.
AlphaSat®	100×100	200 wipes in a slider bag	200	**115-0456**
AlphaSat®	150×150	75 wipes in a slider bag	75	**115-0457**
AlphaSat®	230×230	50 wipes in a slider bag	50	**115-0458**

Cleanroom wipes, Vectra® AlphaSorb® 10 and AlphaSorb® 10

ITW Texwipe

Suitable for use in Class 1, ISO 3, M1.5 environments.

These two ply double-knit 100% continuous-filament polyester wipes offer high sorbency performance. Ideal for use in the most critical cleanroom environments, such as semiconductor and pharmaceutical manufacturing. They are also suitable for both spill control and general wiping in areas where contamination control and high absorbency are of great importance.

- All four edges are thermally sealed, forming a border to prevent particle and fibre release
- Assured cleanliness with ultralow levels of particles and extractables
- Unique 2-ply, pinsoniced construction for extended durability
- Vectra® AlphaSorb® 10 wipes are Vectra processed and AlphaSorb® 10 wipes are laundered in a cleanroom

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Packaging: Solvent-safe Bag-Within-A-Bag® cleanroom packaging.

Model	Vectra® AlphaSorb® 10	AlphaSorb® 10
Absorbency (water) (ml/m²)	540	
Absorbency - rate (s)	0,5	
Basis weight (g/m²)	185	
Extractables - using deionised water (g/m²)	0,01	
Extractables - using isopropyl alcohol (g/m²)	0,04	
Fibres (>100 µm) (m²)	100	
Ions - chloride (ppm)	0,008	
Ions - potassium (ppm)	0,13	
Ions - sodium (ppm)	0,11	

Description	L×W (mm)	Packed	Pk	Cat. No.
Vectra® AlphaSorb® 10	229×229	100 wipers/bag (2 inner bags of 50 wipers)	100	**115-1788**
AlphaSorb® 10	310×310	100 wipers/bag (double bagged); 6 bags/case	600	**115-0603**

Cleanroom wipes, sterile, SterileWipe™ LP

ITW Texwipe

Suitable for use in Class 100, ISO 5, M3.5 cleanrooms.

SterileWipe™ LP is a 100% continuous-filament cut-edge polyester wipe that is low in particle generation and extractable levels. It provides excellent cleaning performance in critical sterile environments such as pharmaceutical aseptic fill areas, biotechnology manufacturing facilities, microbiological laboratories, sterile suites and prep rooms.

- Withstands exposure to common cleaning and disinfecting solutions including bleaches, phenols and quaternary ammonium compounds
- Sterilised by gamma radiation to a 10^{-6} SAL (Sterility Assurance Level) in accordance with AAMI guidelines
- Expiry-dated and supplied with lot-specific Certificates of Irradiation and Compliance

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Colour: White

Model	SterileWipe™ LP
Absorbency (water) (ml/m²)	475
Absorbency - rate (s)	<1
Basis weight (g/m²)	155
Extractables - using deionised water (g/m²)	0,02
Extractables - using isopropyl alcohol (g/m²)	0,08
Fibres (>100 µm) (m²)	2200
Ions - chloride (ppb)	0,20
Ions - potassium (ppb)	0,17
Ions - sodium (ppb)	0,34
Particle generation (ASTM E2090) - 0.5-5 µm (×10⁶/m²)	10
Particle generation (ASTM E2090) - 5-100 µm (m²)	403000

Description	L×W (mm)	Packed	Pk	Cat. No.
SterileWipe™ LP	230×230	10 inner bags of 10 wipes, 5 bags/case	500	**115-0470**

Cleanroom wipes, sterile, SterileWipe™ AS 10
ITW Texwipe

Suitable for use in Class 10, ISO 4, M2.5 environments.

SterileWipe™ AS 10 is a 2 ply, double-knit construction, 100% continuous-filament polyester wipe that offers high sorbency in a sealed-border wipe to prevent particle and fibre release. SterileWipe™ AS 10 represents the state of the art in wipe technology and provides premium performance in critical sterile environments such as pharmaceutical aseptic fill areas, biotechnology manufacturing facilities, microbiological laboratories, sterile suites and prep rooms.

- Extremely low levels of releasable particles and fibres
- Large wipe size and liquid capacity simplify the application of large volumes of cleaning and disinfecting solutions
- Withstands exposure to common cleaning and disinfecting solutions including bleaches, phenols and quaternary ammonium compounds
- Sterilised by gamma radiation to a 10^{-6} SAL (Sterility Assurance Level) in accordance with AAMI guidelines
- Expiry-dated and supplied with lot-specific certificates of Irradiation and Compliance

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Colour: White

Model	SterileWipe™ AS 10
Absorbency (ml/m²)	595
Absorbency - rate (s)	0,3
Basis weight (g/m²)	195
Extractables - using deionised water (g/m²)	0,05
Extractables - using isopropyl alcohol (g/m²)	0,09
Fibres (>100 µm) (m²)	230

Description	L×W (mm)	Packed	Pk	Cat. No.
SterileWipe™ AS 10	310×310	5 inner bags of 20 wipes, 5 bags/case	100	**115-1283**

Cleanroom wipes, sterile, Gamma Wipe® 300
Berkshire

Suitable for use in Class 1, ISO 3, M1.5 environments.

This sterile wipe is made of a continuous-filament 100% polyester knit. It is knitted in tube form and sealed at the two open edges for optimal cleanliness. Laundered in an ISO Class 4 (Class 10) cleanroom.

- Two ply construction provides tremendous absorbency and durability
- Wipe is abrasion and solvent-resistant
- Excellent wet strength, will withstand sanitisers and disinfectants such as bleaches, phenols
- Certificate of Sterility is included with each case

Sterilised by gamma radiation to a Sterility Assurance Level of 10^{-6} in accordance with ANSI/ISO/AAMI guidelines and EN1174 and EN552.

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Colour: white

Packaging: Stacked in peel-away header bags.

Model	Gamma Wipe® 300
Absorbency - extrinsic (ml/m²)	522
Absorbency - intrinsic (ml/g)	2,8
Absorbency - rate (s)	1
Basis weight (g/m²)	189
Calliper (µm)	552
Extractables - using deionised water (g/m²)	0,0047
Extractables - using isopropyl alcohol (g/m²)	0,025
Fibres (>=100 µm) (cm²)	0,0075
Ions - chloride (ppm)	0,023
Ions - potassium (ppm)	0,041
Ions - sodium (ppm)	0,0049
Particle generation (>=0.5 µm) - biaxial shake (×10³/cm²)	0,55

Description	L×W (mm)	Packed	Pk	Cat. No.
Gamma Wipe® 300	300×300	10 per bag, 25 bags per case	250	**115-0261**

Cleanroom wipes, UltraSeal® 3000
Berkshire

Suitable for use in class 1, ISO 3, M1.5 cleanrooms.

Tubular sealed edge 2-ply polyester wipes are ideal for cleaning critical tools and machines, designed for use in manufacturing devices sensitive to micron particle contamination, non volatile residues and ions. Laundered and packed in an ISO 4, Class 10 cleanroom.

- Sealed edges, with wide heat seals, low particles and fibres due to only 2 edges
- Tear-resistant for tough cleaning, double thickness for high absorbency
- Work well with isopropanol and other solvents
- Steam autoclavable
- Lot tracing on each pack

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Model	UltraSeal® 3000 (230×230 mm)	UltraSeal® 3000 (300×300 mm)
Absorbency - extrinsic (ml/m²)	418	522
Absorbency - intrinsic (ml/g)	2,9	2,8
Absorbency - rate (s)	1	
Basis weight (g/m²)	145	189
Calliper (µm)	418	552
Extractables - using deionised water (g/m²)	0,0039	0,0047
Extractables - using isopropanol (g/m²)	0,021	0,025
Fibres (>100 µm/cm²)	0,032	0,0075
Ions - calcium (ppm)	0,012	0,0086
Ions - chloride (ppm)	0,044	0,023
Ions - magnesium (ppm)	0,0037	0,0015
Ions - potassium (ppm)	0,081	0,041
Ions - sodium (ppm)	0,014	0,0049
Particle generation (>=0.5 µm) - biaxial shake (per cm²)	$0,71\times10^3$	$0,55\times10^3$

Description	L×W (mm)	Packed	Pk	Cat. No.
UltraSeal® 3000	230×230	Stacked, 100 wipes/pack	800	**115-1273**
UltraSeal® 3000	300×300	Stacked, 100 wipes/pack	600	**115-1274**

Cleanroom wipes, Super Polx® 1200
Berkshire

Suitable for use in Class 10, ISO Class 4, M2.5 cleanrooms.

Knitted 100% polyester wipes designed for use in manufacture of integrated circuits, LCDs, semiconductors and other devices sensitive to fibre and particle contamination, non volatile residues and ions. Cleanroom laundered and packed in a ISO 4, Class 10 cleanroom. Continuous filament interlocked knit construction avoids unravelling or fibre release. Super Polx® 1200A is a lighter weight more economical version of Super Polx® 1200.

- Tear-resistant for tough cleaning
- Dry wipes are low in ions, particles and fibres, can absorb up to 3 times own weight
- Work well with acetone, isopropanol and other solvents
- Soft edges for sensitive surfaces
- Autoclavable

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Colour: White

Model	Super Polx® 1200	Super Polx® 1200A
Absorbency - extrinsic (ml/m²)	509	464
Absorbency - intrinsic (ml/g)	3,4	2,5
Absorbency - rate (s)	1	
Basis weight (g/m²)	151	141
Calliper (µm)	521	555
Extractables - using deionised water (g/m²)	0,0045	0,0015
Extractables - using isopropyl alcohol (g/m²)	0,0092	0,0020
Fibres (>100 µm/cm²)	0,35	0,22
Ions - calcium (ppm)	0,053	0,39
Ions - chloride (ppm)	0,39	
Ions - magnesium (ppm)	0,011	0,086
Ions - potassium (ppm)	0,010	0,041
Ions - sodium (ppm)	0,17	0,093

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Particle generation (>=0.5 µm) - biaxial shake (per cm^2)	$0,22\times10^3$	$1,9\times10^3$

Description	L×W (mm)	Packed	Pk	Cat. No.
Super Polx® 1200				
Super Polx® 1200	230×230	Stacked, 150 wipes/pack, 8 packs/case	1.200	**115-0538**
Super Polx® 1200	230×230	Bulk, 150 wipes/pack	150	**115-0355**
Super Polx® 1200A				
Super Polx® 1200A	230×230	Bulk, 150 wipes/pack	150	**115-0356**

Cleanroom wipes, Super Polx® SWSE
Berkshire

Suitable for use in Class 1, ISO 3, M1.5 and above cleanrooms.

This sealed edge cleanroom wiper made of 100% continuous filament double knitted polyester is excellent for general wiping and disinfecting of critical process areas and machines. Ideal for economic high volume cleaning and wipe-downs.

- Strong, tear and abrasion resistant
- Very good absorbency
- Low particles and fibres
- Sterilisable by autoclave, Gamma or Beta
- Laundered and packaged in an ISO 4 (Class 10) cleanroom; lot tracing on each pack

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Model	Super Polx® SWSE
Absorbency - extrinsic (ml/m^2)	411
Absorbency - intrinsic (ml/g)	3,2
Absorbency - rate (s)	2
Basis weight (g/m^2)	128
Calliper (µm)	477
Extractables - using deionised water (g/m^2)	0,0058
Extractables - using isopropyl alcohol (g/m^2)	0,013
Fibres (>100 µm/cm^2)	0,033
Ions - calcium (ppm)	0,41
Ions - magnesium (ppm)	0,14
Ions - potassium (ppm)	0,088
Ions - sodium (ppm)	0,25
Particle generation (>=0.5 µm) - biaxial shake (per cm^2)	$1,2\times10^3$

Description	L×W (mm)	Packed	Pk	Cat. No.
Super Polx® SWSE	230×230	Bulk, 150 sheets/pack, 10 packs/case	1.500	**115-1787**
Super Polx® SWSE	230×230	Stacked, 150 sheets/pack, 10 packs/case	10	**115-1786**

Cleanroom wipes, sterile, Gamma Wipe® 120
Berkshire

Suitable for use in Class 10, ISO 4, M2.5 environments.

Made from 100% continuous-filament, knitted non-run polyester. Laundered in an ISO Class 4 (Class 10) cleanroom prior to sterilisation.

- Wipe is incredibly strong for tough cleaning and has low particle generation for critical wiping
- Abrasion and solvent resistant
- Certificate of Irradiation and Certificate of Sterility Lot Number are included with each case
- Gamma-irradiated to a Sterility Assurance Level of 10^{-6}

According to ANSI/ISO/AAMI guidelines

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Model	Gamma Wipe® 120
Absorbency (ml/g)	3,4
Absorbency (ml/m²)	509
Absorbency - rate (s)	1
Basis weight (g/m²)	151
Calliper (µm)	521
Extractables - using deionised water (g/m²)	0,0045
Extractables - using isopropyl alcohol (g/m²)	0,0092
Fibres (>100 µm/cm²)	0,35
Ions - chloride (ppm)	0,39
Particle generation (>=0.5 µm) - biaxial shake (×10³/cm²)	0,22

Description	L×W (mm)	Packed	Pk	Cat. No.
Gamma Wipe® 120	300×300	20 per bag, 15 bags per case	300	**115-0347**

Cleanroom wipes, sterile, Gamma Wipe® 67
Berkshire

Suitable for Class 100, ISO 5, M3,5 environments.

Designed for general sterile cleanroom applications requiring cleanliness, durability, and high absorbency, made of a low-particulating, non woven blend of 45% polyester and 55% cellulose.

- Certificate of Sterility is included with each case
- Sterilised by gamma radiation to a Sterility Assurance Level of 10^{-6}

According to ANSI/ISO/AAMI guidelines

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Packaging: Packed in peel-away header bags.

Model	Gamma Wipe® 67
Absorbency - extrinsic (ml/m²)	291
Absorbency - intrinsic (ml/g)	4,3
Absorbency - rate (s)	2
Basis weight (g/m²)	67,6
Calliper (µm)	243
Extractables - using deionised water (%)	0,030
Extractables - using isopropyl alcohol (%)	0,0034
Fibres (>=100 µm) (cm²)	200
Ions - chloride (ppm)	39
Ions - potassium (ppm)	4,1
Ions - sodium (ppm)	49
Particle generation (>=0.5 µm) - biaxial shake (×10³/cm²)	16

Description	L×W (mm)	Packed	Pk	Cat. No.
Gamma Wipe® 67	300×300	20 per bag, 25 bags per case	500	**115-0348**
Gamma Wipe® 67	300×300	5 per bag, 60 bag per case	300	**115-0262**

Cleanroom wipes, Durx® 670
Berkshire

Suitable for use in Class 100, ISO 5, M3.5 cleanrooms

Non woven hydroentangled cellulose polyester blend wipes are ideal for general cleaning and spillages. Designed for use in manufacturing devices sensitive to micron particle contamination, non volatile residues and ions.

- Low particles, low fibres and no secondary binders
- Smooth, highly absorbent and durable
- Work well with isopropanol and other solvents
- High wet strength
- Steam autoclavable

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Colour: White

Model	Durx® 670
Absorbency (ml/m²)	291
Absorbency - rate (s)	2
Basis weight (g/m²)	67,6
Calliper (µm)	243
Extractables - using deionised water (g/m²)	0,030
Extractables - using isopropyl alcohol (g/m²)	0,0034
Fibres (>100 µm/cm²)	110
Ions - calcium (ppm)	12
Ions - chloride (ppm)	39
Ions - magnesium (ppm)	4,7
Ions - potassium (ppm)	4,1
Ions - sodium (ppm)	49
Particle generation (>=0.5 µm) - biaxial shake (per cm²)	16×10^3

Description	L×W (mm)	Packed	Pk	Cat. No.
Durx® 670 flat mop covers	200×300	100 sheets/pack	2.000	**141-0109**
Durx® 670 cleanroom wipes	230×230	300 sheets/pack	300	**115-0343**
Durx® 670 cleanroom wipes	230×580	100 sheets/pack	100	**115-0344**

Cleanroom wipes, Durx® 770
Berkshire

Suitable for use in Class 100, ISO 5, M3.5 cleanrooms.

Non woven hydroentangled cellulose polyester blend wipes are ideal for critical small parts cleaning. Designed for use in manufacturing devices sensitive to micron particle contamination, non volatile residues and ions.

- Low particles, low fibres and non-ionic binders
- Soft, highly absorbent and durable
- Work well with isopropanol and other solvents
- High wet strength
- Steam autoclavable

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Model	770
Absorbency (ml/m²)	258
Absorbency - rate (s)	3
Basis weight (g/m²)	65,8
Calliper (µm)	245
Extractables - using deionised water (g/m²)	0,10
Extractables - using isopropyl alcohol (g/m²)	0,049
Fibres (>100 µm/cm²)	17
Ions - calcium (ppm)	31
Ions - chloride (ppm)	52
Ions - magnesium (ppm)	12
Ions - potassium (ppm)	9,3
Ions - sodium (ppm)	83
Particle generation (>=0.5 µm) - biaxial shake (per cm²)	$5{,}0\times10^3$
Specific absorbency (cc/g)	3,3

Description	L×W (mm)	Packed	Pk	Cat. No.
Durx® 770	230×230	Stacked	300	**115-0345**

Cleanroom wipes, pre-saturated, SatPax® 670

Berkshire

Suitable for use in Class 100, ISO 5, M3.5 cleanrooms.

Pre-saturated non woven hydroentangled cellulose polyester blend wipes are ideal for general cleaning and wiping. Designed for use in manufacturing devices sensitive to micron particle contamination, non volatile residues and ions.

- Low particles, low fibres and no secondary binders
- Smooth, highly absorbent and durable, high wet strength
- Pre-saturated with isopropanol (IPA) and deionised water (DI H_2O), packaged in resealable pouches
- Eliminate solvent squirt bottles, and uncontrolled saturation levels
- Steam autoclavable

Data accurate at time of publishing, latest test results and test methods can be found on supplier's website.

Colour: White

Model	SatPax® 670
Basis weight (g/m²)	68,9
Calliper (µm)	247
Extractables - using deionised water (%)	0,090
Extractables - using isopropyl alcohol (%)	0,027
Fibres (>100 µm/cm²)	110
Particle generation (>=0.5 µm) - biaxial shake (×10³/cm²)	21

Description	L×W (mm)	Packed	Pk	Cat. No.
SatPax® 670 with 70% IPA / 30% DIW	230×230	25 per bag	25	**115-0359**
SatPax® 670 with 70% IPA / 30% DIW	230×580	25 per bag, 12 packs	300	**141-0112**
SatPax® 670 with 50% IPA / 50% DIW	230×580	25 per bag, 12 packs	300	**141-0113**

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Sampling Kit for validating TOC Cleaning
ITW Texwipe

These TOC (Total Organic Carbon) Cleaning Validation Kits have been designed to simplify sampling for cleaning validation in the pharmaceutical industry. The kit contains components for sampling 12 or 72 (respectively) different locations in the production area, and provides an efficient means of transport of the samples from production to laboratory with minimal chance of contamination. Comprising of TOC sample vials that have been cleaned and are certified to <10 ppb TOC content with closures, together with SnapSwab™ (large) sample collection swabs certified to <50 ppb TOC. The sample collection swab stick has a large head on a firm shaft, which thereby provides the head with firm support; the shaft can be broken off to minimise contact and the associated risk of contamination.

- Contains sufficient components for 12 or 72 tests (72 sample vials and 144 sample collection swab sticks)
- Labels for identifying samples are included
- Knitted polyester swab
- Low particle generation Breakaway handle allows swab head to be placed intovial with minimal handling and contamination
- Good absorbent capacity
- Very good chemical resistance
- Autoclavable to ensure sampling under sterile conditions

Delivery information: Certificates of analysis ensure traceability of the production lots.

Description	Pk	Cat. No.
Validation kit for TOC cleaning (12 tests)	1 KIT	**710-0542**
Validation kit for TOC cleaning (72 tests)	1 KIT	**710-0582**

Swabs, CleanTips®, polyester Alpha®
ITW Texwipe

This swab is ideal for cleaning validation and sampling. Features 100% continuous-filament polyester substrate that is heat-moulded (thermally-bonded) onto the handle.

- Exposed edges are sealed to reduce fibre release and eliminate the need for contaminating adhesives
- Swab incorporates a full-size, regular head on a rigid paddle
- Polyester is soft and non-abrasive, making the swab good for sensitive surfaces

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	101,8
Handle width (mm)	5,2
Head length (mm)	25,7
Head width (mm)	12,7

Description	Pk	Cat. No.
Large paddle swab	1.000	**710-0552**

Swabs, CleanTips®, polyester Alpha®, medium head
ITW Texwipe

Ideal for cleaning and validation sampling applications that demand an ultra-clean swab. This 100% continuous-filament polyester is heat-moulded (thermally-bonded) onto a polypropylene handle, eliminating the need for contaminating adhesives. The exposed edges are sealed to reduce fibre release.

- Cleanroom laundered knitted polyester for low particle generation and extractable levels
- A double layer of Alpha polyester gives additional body and absorbency
- Flexible internal head paddle, long handle

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	145,5
Handle width (mm)	3,2
Head length (mm)	16,8
Head width (mm)	6,8

Description	Pk	Cat. No.
Polyester long swab	1.000	**710-0562**

Swabs, CleanTips®, medium foam head
ITW Texwipe

General purpose swab with a closed-cell polyurethane foam head offers excellent durability and cushioning. Made from polyurethane foam with 100 pore per inch porosity. Can be used in a wide variety of industrial applications, from general assembly to cleanrooms.

- Swab features a flexible nylon paddle
- Low particle and fibre generation
- Good chemical resistance

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	93,0
Handle width (mm)	4,3
Head length (mm)	12,0
Head width (mm)	4,8

Description	Pk	Cat. No.
Medium foam head swab	1.000	**710-0549**

Swabs, CleanTips®, flexible, small CleanFoam® head
ITW Texwipe

Ideal for cleaning small, confined areas. Very low in non volatile residue. Made from polyurethane foam with 100 pore per inch porosity. Can be used for a wide variety of industrial applications, from general assembly to cleanrooms.

- Highly absorbent swab is low in particulates and withstands most widely used solvents
- Very low in non volatile residue
- A compact, rigid handle and flexible internal head paddle provide controlled support

Packaging: Cleanroom processed. Bag-within-a-bag packaging.

Handle length (mm)	57,5
Handle width (mm)	2,4
Head length (mm)	10,5
Head width (mm)	3,4

Description	Pk	Cat. No.
Small head swab	500	**710-0569**

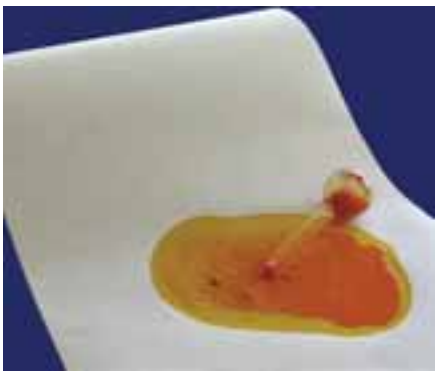
Surface protection plates, Thermoplate

These plates made from ceramic glass protect high quality surfaces from high temperature containers, such as crucibles, evaporating dishes, glass containers and more. They also provide reliable protection against deep frozen items. Feet at the edges of the plates prevent direct contact with the surfaces to be protected.

- Temperature resistant from –235,5 to +648,8 °C
- Easily cleaned, dirt-repellent surface
- Low thermal expansion, resistant to thermal shocks

Colour	L×W (mm)	Pk	Cat. No.
Dark Brown	102×102	1	**115-0094**
Dark Brown	152×152	1	**115-0095**
Dark Brown	229×229	1	**115-0096**
Dark Brown	305×305	1	**115-0097**

Bench protectors



High quality, smooth, absorbent paper that quickly absorbs liquid spills with a thick, laminated polyethylene layer that prevents seeping onto the work surface.

- Retains leaked reagents in radio-chemical laboratories and prevents radioactive contamination
- Enables recovery of leaked, expensive materials
- Breakage protection for hard surfaces
- Absorption layer for water or solvent moisture chambers
- Ideal, impermeable protective material for lining animal cages

Absorbance rate 115-9220 and 115-9221: 500 ml/m²
Absorbance rate 115-0673: 750 ml/m²

Colour	L×W (mm)	Packed	Pk	Cat. No.
Regular				
White	570×460	50 single sheets	50	**115-9220**
White	50000×460	1 roll of 50 m	1	**115-9221**
Maxi				
White	460×570	50 single sheets	50	**115-0673**

Bench protection paper

Highly absorbent paper sheets for bench and surface protection.

- Dust-proof packaging
- Very soft: Prevents scratches on surfaces

Colour	L×W (mm)	Packed	Pk	Cat. No.
White	371×303	25 sheets/pack	25	**631-1059**

Bench protectors, Benchkote®
Whatman (GE Healthcare)

Absorbent paper backed with polyethylene is specially prepared for the protection of laboratory benches against spillages, stains and corrosion. Disposable by incineration. Absorbance rate: 500 ml/m²

- For working with radiochemical materials
- Expensive leaked materials can be recovered
- For use as absorption material in moisture chambers

Colour	L×W (mm)	Packed	Pk	Cat. No.
White	570×460	1 pad with 50 sheets	50	**115-9204**
White	50000×460	1 roll with 50 m	50 m	**115-9201**
White	50000×920	1 roll with 50 m	50 m	**115-9202**
White	570×460	50 single sheets	50	**115-9203**

Bench protectors, Benchkote Plus™
Whatman (GE Healthcare)

Benchkote Plus™ is backed with polyethylene and has an extra thick absorbent layer, which offers an absorbency of more than 750 ml/m².

- Smooth surface can be written on with ink or pencil
- Can be saturated with disinfectant as protection against pathogens and other bacteria
- Use PE- side up to facilitate the recovery of valuable liquids

Colour	L×W (mm)	Packed	Pk	Cat. No.
White	600×500	50 single sheets	50	**115-9211**
White	50000×600	1 roll with 50 m	50 m	**115-9210**

Lab soaker, Standard Versi-Dry® and Super Versi-Dry®, Nalgene®
Thermo Scientific

Versi-Dry® Lab Soakers protect surfaces and equipment, cushion breakable items and quickly absorb spills. The polythene backing is waterproof and resistant to chemicals. Standard version absorbs 750 ml/m², super version absorbs 1050 ml/m².

- Multiple layers help protect glassware and other delicate items from breaking when dropped or tipped over on hard surfaces
- Soft and non-abrasive, does not scratch delicate surfaces or equipment
- Can also be used as a tray, drawer or shelf liner or to wipe up spills

Colour	L×W (mm)	Packed	Pk	Cat. No.
Standard Versi-Dry®				
White	458×508	Sheets	350	**115-9260**
White	508×30500	Roll	4 Roll	**115-9259**
White	508×45720	Roll	2 Roll	**115-9258**
White	508×91500	Roll	2 Roll	**115-9257**
White	508×91500	Roll	1 Roll	**115-0011**
Super Versi-Dry®				
Blue	458×508	Sheets	350	**115-9268**
Blue	458×508	Sheets	100	**115-0015**
Blue	458×1020	Sheets	175	**115-9269**
Blue	508×1100	Sheets	150	**115-0012**
Blue	508×30500	Roll	4 Roll	**115-0013**
Blue	508×76200	Roll	1 Roll	**115-9267**

Bench protectors, BenchGuard® and BenchGuard® Extra, Sterilin®
Thermo Scientific

Highly absorbent paper, with absorption of 400 ml/m² and 800 ml/m² for BenchGuard® Extra. Ideal for protecting benches and surfaces against liquid spills.

- One side plastic coated to prevent soak through
- Available in roll or sheet form supplied in easy to use dispenser packs
- BenchGuard Extra® has double absorbency for use in more demanding applications

Type	Colour	L×W (mm)	Pk	Cat. No.
BenchGuard® Extra	White	50000×490	1 Roll	**115-9321**
BenchGuard®	White	600×490	100	**115-1285**

Bench protection paper, oil absorbent, T-151
3M

This oil absorbent fleece is made from inert synthetic fibres, mainly polypropylene. Ideal for containing and mopping up hydrocarbons and non-polar organic solvents such as oil, paraffin, diesel, benzene, alcohols, toluene, trichloroethane, esters and ethers. This product should not be used for aqueous or aggressive liquids. Used fleeces should be disposed of in accordance with local and national regulations.

- Lightweight and dust-free
- Oleophilic and hydrophobic at the same time
- Outstanding absorbency reduces disposal effort

Absorbency/cloth: 500 ml

Absorbency/case: 150 l

Colour	L×W (mm)	Packed	Pk	Cat. No.
White	530×390	Pads	200	**121-1009**

Bench protectors, Labmat™
Bel-Art Products

Labmat™ protects your work surfaces from spillages of corrosive, radioactive and staining substances.

- Soft, absorbent layer covered with an impermeable, PE layer

Length: 15 m

Width: 508 mm

Colour	L×W (mm)	Pk	Cat. No.
White	15200×508	1 Roll	**115-9101**
Red	15200×508	1 Roll	**115-9102**

Protective film, Bytac
Saint-Gobain

Self-adhesive laminate, consisting of a chemical-resistant FEP film surface and a vinyl substrate for protecting all common work surfaces. Can be easily peeled away without leaving any adhesive residue.

Temperature resistance: vinyl: up to a maximum of +93 °C; aluminium: up to +182 °C (up to a maximum of 1 hr).

Colour	L×W (mm)	Packed	Pk	Cat. No.
White	4600×635	Roll	4,6 m	**293-4331**

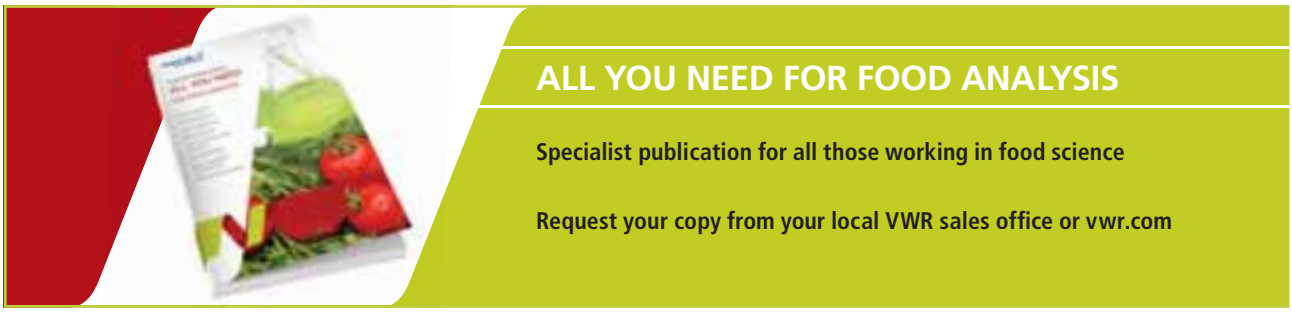
Disposable spillage trays

PS, white

The spill containment tray protects laboratory benches.

- With sufficient depth to safely contain even large liquid spills
- Anti-static

Length (mm)	Width (mm)	Pk	Cat. No.
475	360	25	**121-0300**
700	450	25	**121-0301**



VWR COLLECTION

SELECTED FOR YOU

Multi layer adhesive floor mats, PureStep

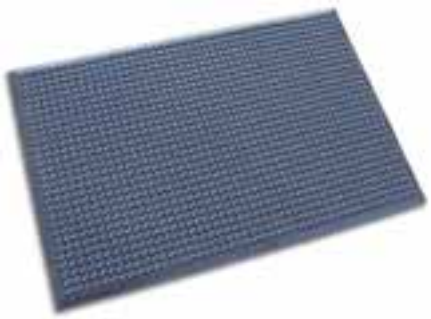
A choice of either 30 or 60 layer adhesive entrance mats are manufactured from low density polyethylene. The mats control contamination by removing debris from the soles of shoes and the wheels of transport containers. When one layer is dirty, simply remove by the numbered corner tab, leaving a fresh layer ready for use.

- Antimicrobial agent protects against the growth of bacteria and fungi
- Non-slip, low profile, individually numbered layers
- Reduced maintenance and cleaning costs

Colour: Clear

L×W (mm)	Thickness (mm)	Colour	Pk	Cat. No.
Adhesive film mats, PureStep, 30 layers				
457×914	1,8	Blue	8	**115-0055**
457×914	1,8	Grey	8	**115-0056**
457×914	1,8	White	8	**115-0057**
457×1143	1,8	Blue	8	**115-0061**
457×1143	1,8	Grey	8	**115-0062**
457×1143	1,8	White	8	**115-0063**
610×762	1,8	Blue	4	**115-0047**
610×762	1,8	Clear	4	**115-0048**
610×762	1,8	Grey	4	**115-0049**
610×762	1,8	White	4	**115-0050**
610×914	1,8	Blue	8	**115-0067**
610×914	1,8	Grey	8	**115-0068**
610×914	1,8	White	8	**115-0069**
660×1143	1,8	Blue	8	**115-0073**
660×1143	1,8	Grey	8	**115-0074**
660×1143	1,8	White	8	**115-0075**
914×914	1,8	Blue	8	**115-0079**
914×914	1,8	Grey	8	**115-0080**
914×914	1,8	White	8	**115-0081**
914×1143	1,8	Blue	8	**115-0085**
914×1143	1,8	Grey	8	**115-0086**
914×1143	1,8	White	8	**115-0087**
914×1524	1,8	Blue	4	**115-0091**
914×1524	1,8	Grey	4	**115-0092**
914×1524	1,8	White	4	**115-0093**
Adhesive film mats, PureStep, 60 layers				
457×914	1,8	Blue	4	**115-0058**
457×914	1,8	Grey	4	**115-0059**
457×914	1,8	White	4	**115-0060**
457×1143	1,8	Blue	4	**115-0064**
457×1143	1,8	Grey	4	**115-0065**
457×1143	1,8	White	4	**115-0066**
610×762	1,8	Blue	4	**115-0051**
610×762	1,8	Clear	4	**115-0052**
610×762	1,8	Grey	4	**115-0053**
610×762	1,8	White	4	**115-0054**
610×914	1,8	Blue	4	**115-0070**
610×914	1,8	Grey	4	**115-0071**
610×914	1,8	White	4	**115-0072**
660×1143	1,8	Blue	4	**115-0076**
660×1143	1,8	Grey	4	**115-0077**
660×1143	1,8	White	4	**115-0078**
914×914	1,8	Blue	4	**115-0082**
914×914	1,8	Grey	4	**115-0083**
914×914	1,8	White	4	**115-0084**
914×1143	1,8	Blue	4	**115-0088**
914×1143	1,8	Grey	4	**115-0089**
914×1143	1,8	White	4	**115-0090**
High tack mats, PureStep, 30 layers				
457×1143	1,8	Blue	8	**115-0167**
High tack mats, PureStep, 60 layers				
660×1143	1,8	White	4	**115-0168**
914×1143	1,8	White	4	**115-0169**

Ergonomic mats, Basic Bubble and Basic Smooth



115-1149

115-1202

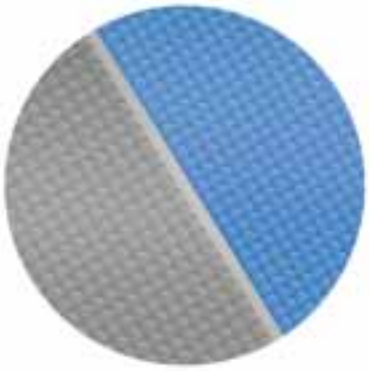
These mats are made of lower density polyurethane and provide an ergonomic and anti-fatigue profile. Bubble mats are designed for dry, non critical environments, reducing trip hazards, body aches, quality issues and sick leave. The smooth, flat mats are ideal for dry, non critical environments where sitting and standing work areas are combined, or where carts or trolleys must be used.

- Moulded bevelled edges will not curl up, thus eliminating trip hazards
- Any size or any shape - will always be one piece: No overlapping or worn out connecting mats
- Ergonomic design stimulates the body to increase blood circulation and alertness
- Silicone and latex-free
- Warranty up to 3 years

DIN 53505, EN ISO 527-1, ASTM D 624

LxW (mm)	Thickness (mm)	Colour	Pk	Cat. No.
Basic Bubble				
600×900	15	Grey	1	**115-1149**
600×1200	15	Grey	1	**115-1150**
600×1500	15	Grey	1	**115-1151**
600×1800	15	Grey	1	**115-1152**
900×900	15	Grey	1	**115-1167**
900×1200	15	Grey	1	**115-1168**
900×1500	15	Grey	1	**115-1169**
900×1800	15	Grey	1	**115-1170**
1200×1200	15	Grey	1	**115-1185**
1200×1500	15	Grey	1	**115-1186**
1200×1800	15	Grey	1	**115-1187**
Basic Smooth				
600×900	11	Grey	1	**115-1202**
600×1200	11	Grey	1	**115-1203**
600×1500	11	Grey	1	**115-1204**
600×1800	11	Grey	1	**115-1205**
900×900	11	Grey	1	**115-1220**
900×1200	11	Grey	1	**115-1221**
900×1500	11	Grey	1	**115-1222**
900×1800	11	Grey	1	**115-1223**
1200×1200	11	Grey	1	**115-1238**
1200×1500	11	Grey	1	**115-1239**
1200×1800	11	Grey	1	**115-1240**

Cleanroom anti-fatigue mats, Infinity Bubble and Smooth



115-0745

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The Infinity mat offers the comfort of a polyurethane mat and is suitable for cleanroom ISO Class 5 (Class 100) environments. It is either available with a bubble surface that features a unique ergonomic and anti-fatigue design or with a smooth surface that is ideal for areas that combine sitting and standing.

- Extremely good chemical and UV resistance (except for organic solvents)
- Silicone and latex-free
- Closed cell / non porous surface allows for easy wash down and cleaning
- Smooth mat: Ideal if carts or trolleys must be used
- Bubble mat: Ergonomic benefit of stimulating the body to increase blood circulation
- Warranty up to 12 years

DIN 53505, EN ISO 14664-1

L×W (mm)	Thickness (mm)	Colour	Pk	Cat. No.
Smooth surface, blue				
600×900	11	Blue	1	**115-0735**
600×1800	11	Blue	1	**115-0736**
600×2700	11	Blue	1	**115-0737**
600×6000	11	Blue	1	**115-0738**
900×1200	11	Blue	1	**115-0739**
900×1800	11	Blue	1	**115-0740**
900×6000	11	Blue	1	**115-0741**
1200×1800	11	Blue	1	**115-0742**
1200×3600	11	Blue	1	**115-0743**
1200×6000	11	Blue	1	**115-0744**
Smooth surface, grey				
600×900	11	Grey	1	**115-0745**
600×1800	11	Grey	1	**115-0746**
600×2700	11	Grey	1	**115-0747**
600×6000	11	Grey	1	**115-0748**
900×1200	11	Grey	1	**115-0749**
900×1800	11	Grey	1	**115-0756**
900×6000	11	Grey	1	**115-0757**
1200×1800	11	Grey	1	**115-0758**
1200×3600	11	Grey	1	**115-0759**
1200×6000	11	Grey	1	**115-0760**
Bubble surface, blue				
600×900	14,5	Blue	1	**115-0715**
600×1200	14,5	Blue	1	**115-1061**
600×1500	14,5	Blue	1	**115-1062**
600×1800	14,5	Blue	1	**115-0716**
600×2100	14,5	Blue	1	**115-1063**
600×2400	14,5	Blue	1	**115-1064**
600×2700	14,5	Blue	1	**115-0717**
600×3000	14,5	Blue	1	**115-1065**
600×3300	14,5	Blue	1	**115-1066**
600×3600	14,5	Blue	1	**115-1067**
600×3900	14,5	Blue	1	**115-1068**
600×4200	14,5	Blue	1	**115-1069**
600×4500	14,5	Blue	1	**115-1070**
600×4800	14,5	Blue	1	**115-1071**
600×5100	14,5	Blue	1	**115-1072**
600×5400	14,5	Blue	1	**115-1073**
600×5700	14,5	Blue	1	**115-1074**
600×6000	14,5	Blue	1	**115-0718**
900×900	14,5	Blue	1	**115-1075**
900×1200	14,5	Blue	1	**115-0719**
900×1500	14,5	Blue	1	**115-1076**
900×1800	14,5	Blue	1	**115-0720**
900×2100	14,5	Blue	1	**115-1077**
900×2400	14,5	Blue	1	**115-1078**
900×2700	14,5	Blue	1	**115-1079**
900×3000	14,5	Blue	1	**115-1080**
900×3300	14,5	Blue	1	**115-1081**
900×3600	14,5	Blue	1	**115-1082**
900×3900	14,5	Blue	1	**115-1083**
900×4200	14,5	Blue	1	**115-1084**
900×4500	14,5	Blue	1	**115-1085**
900×4800	14,5	Blue	1	**115-1086**
900×5100	14,5	Blue	1	**115-1087**
900×5400	14,5	Blue	1	**115-1088**
900×5700	14,5	Blue	1	**115-1089**
900×6000	14,5	Blue	1	**115-0721**
1200×1200	14,5	Blue	1	**115-1090**
1200×1500	14,5	Blue	1	**115-1091**
1200×1800	14,5	Blue	1	**115-0722**
1200×2100	14,5	Blue	1	**115-1092**
1200×2400	14,5	Blue	1	**115-1093**

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LxW (mm)	Thickness (mm)	Colour	Pk	Cat. No.
Bubble surface, blue				
1200×2700	14,5	Blue	1	**115-1094**
1200×3000	14,5	Blue	1	**115-1095**
1200×3300	14,5	Blue	1	**115-1096**
1200×3600	14,5	Blue	1	**115-0723**
1200×3900	14,5	Blue	1	**115-1097**
1200×4200	14,5	Blue	1	**115-1098**
1200×4500	14,5	Blue	1	**115-1099**
1200×4800	14,5	Blue	1	**115-1102**
1200×5100	14,5	Blue	1	**115-1103**
1200×5400	14,5	Blue	1	**115-1104**
1200×5700	14,5	Blue	1	**115-1105**
1200×6000	14,5	Blue	1	**115-0724**
Bubble surface, grey				
600×900	14,5	Grey	1	**115-0725**
600×1200	14,5	Grey	1	**115-1106**
600×1500	14,5	Grey	1	**115-1107**
600×1800	14,5	Grey	1	**115-0726**
600×2100	14,5	Grey	1	**115-1108**
600×2400	14,5	Grey	1	**115-1109**
600×2700	14,5	Grey	1	**115-0727**
600×3000	14,5	Grey	1	**115-1110**
600×3300	14,5	Grey	1	**115-1111**
600×3600	14,5	Grey	1	**115-1112**
600×3900	14,5	Grey	1	**115-1113**
600×4200	14,5	Grey	1	**115-1114**
600×4500	14,5	Grey	1	**115-1115**
600×4800	14,5	Grey	1	**115-1116**
600×5100	14,5	Grey	1	**115-1117**
600×5400	14,5	Grey	1	**115-1118**
600×5700	14,5	Grey	1	**115-1119**
600×6000	14,5	Grey	1	**115-0728**
900×900	14,5	Grey	1	**115-1120**
900×1200	14,5	Grey	1	**115-0729**
900×1500	14,5	Grey	1	**115-1121**
900×1800	14,5	Grey	1	**115-0730**
900×2100	14,5	Grey	1	**115-1122**
900×2400	14,5	Grey	1	**115-1123**
900×2700	14,5	Grey	1	**115-1124**
900×3000	14,5	Grey	1	**115-1125**
900×3300	14,5	Grey	1	**115-1126**
900×3600	14,5	Grey	1	**115-1127**
900×3900	14,5	Grey	1	**115-1128**
900×4200	14,5	Grey	1	**115-1129**
900×4500	14,5	Grey	1	**115-1130**
900×4800	14,5	Grey	1	**115-1131**
900×5100	14,5	Grey	1	**115-1132**
900×5400	14,5	Grey	1	**115-1133**
900×5700	14,5	Grey	1	**115-1134**
900×6000	14,5	Grey	1	**115-0731**
1200×1200	14,5	Grey	1	**115-1135**
1200×1500	14,5	Grey	1	**115-1136**
1200×1800	14,5	Grey	1	**115-0732**
1200×2100	14,5	Grey	1	**115-1137**
1200×2400	14,5	Grey	1	**115-1138**
1200×2700	14,5	Grey	1	**115-1139**
1200×3000	14,5	Grey	1	**115-1140**
1200×3300	14,5	Grey	1	**115-1141**
1200×3600	14,5	Grey	1	**115-0733**
1200×3900	14,5	Grey	1	**115-1142**
1200×4200	14,5	Grey	1	**115-1143**
1200×4500	14,5	Grey	1	**115-1144**
1200×4800	14,5	Grey	1	**115-1145**
1200×5100	14,5	Grey	1	**115-1146**
1200×5400	14,5	Grey	1	**115-1147**
1200×5700	14,5	Grey	1	**115-1148**
1200×6000	14,5	Grey	1	**115-0734**

Cleanroom antifatigue mats, Ergomat® Aqua

Suitable for use in class ISO 5 (100) cleanrooms.

Egomat® Aqua mats are made from premium EPDM rubber. The mats are designed to increase comfort while reducing tripping hazards, body aches, quality issues, and sick leaves. Also for outdoor use suitable.

- Upper side with cones
- Autoclavable, withstands 600 °C (welding)
- Resistant against some alkaline liquids, acids and alcohols
- Frequent washes will not affect the state of the mat; no curling up, swelling or expanding
- Anti-fatigue and ergonomic benefits thanks to durability and unique molded design
- Silicone- and latex-free

Colour: Green, red or grey

Meets EN ISO/USDA/CFIA standards

Type	L×W (mm)	Colour	Pk	Cat. No.
Aqua	910×600	Green	1	**115-0670**
Aqua	910×600	Grey	1	**115-0671**
Aqua	910×600	Red	1	**115-0672**

VWR CHEMICAL CATALOGUE

Solvents, standards, microbiology media, microscopy and life science products

Request your copy from your local VWR sales office or vwr.com

Emergency escape and fire equipment signs
Brady Corporation

All signs comply with current European legislation.

Description	Material	Dimensions (mm)	Pk	Cat. No.
Emergency telephone	PP, rigid	100×100	1	**116-0173**
Eyewash	PP, rigid	100×100	1	**116-0174**
Emergency shower	PP, rigid	100×100	1	**116-0175**
Fire extinguisher	PP, rigid	100×100	1	**116-0176**
Fire alarm	PP, rigid	100×100	1	**116-0177**
Emergency shower (with clear laminate), white	PE, self-adhesive	100×100	1	**116-0188**
Emergency telephone (with clear laminate), white	PE, self-adhesive	100×100	1	**116-0189**
First aid	PP, rigid	200×200	1	**116-0192**
Fire blanket	PP, rigid	200×200	1	**116-0193**
Fire exit running man right arrow right	Photoluminescent	300×150	1	**116-0196**
Fire exit running man left arrow left	Photoluminescent	300×150	1	**116-0197**
Fire exit stairs running man left arrow down	Photoluminescent	300×150	1	**116-0198**

Mandatory signs
Brady Corporation

All signs comply with current European legislation.

Description	Material	Dimensions (mm)	Pk	Cat. No.
Eye protection must be worn	PP, rigid	100×100	1	**116-0149**
Hand protection must be worn	PP, rigid	100×100	1	**116-0150**
Hairnets must be worn	PP, rigid	100×100	1	**116-0151**
Respiration protection must be worn	PP, rigid	100×100	1	**116-0152**
Protective apron must be worn	PP, rigid	100×100	1	**116-0153**
Eye protection must be worn by patients (with clear laminate)	PE, self-adhesive	100×100	1	**116-0154**
Hairnets must be worn (with clear laminate)	PE, self-adhesive	100×100	1	**116-0190**
Foot protection must be worn (with clear laminate)	PE, self-adhesive	100×100	1	**116-0194**
Protective apron must be worn (with clear laminate)	PE, self-adhesive	100×100	1	**116-0195**

Mandatory signs

All signs comply with the requirements of BS 5499-1 and the Health and Safety (Safety Signs and Signals) Regulations, 1996.

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Description	Material	Dimensions (mm)	Pk	Cat. No.
All visitors must wear personal protective...	PVC, rigid	595×415	1	**116-0115**
Wear gloves (symbol only)	Vinyl, self adhesive	200×150	1	**116-0117**
Wear masks	Vinyl, self adhesive	200×150	1	**116-0120**
Eye protection must be worn in this area	Vinyl, self adhesive	400×300	1	**116-0121**
Wear face shield	Vinyl, self adhesive	200×150	1	**116-0122**
Protective clothing must be worn in this area (suitable for wall fixing)	PVC	400×300	1	**116-0123**

Prohibition signs
Brady Corporation

All signs comply with current European legislation.

Description	Material	Dimensions (mm)	Pk	Cat. No.
No entry to unauthorised personnel	PP, rigid	100×100	1	**116-0155**
Do not spray water (with clear laminate)	PP, rigid	100×100	1	**116-0157**
Do not grip inside	PP, rigid	100×100	1	**116-0159**
Do not wash your hands with chemicals	PP, rigid	100×100	1	**116-0162**
Do not extinguish with water (with clear laminate)	PP, rigid	100×100	1	**116-0156**
Do not grip inside	PE, self-adhesive	100×100	1	**116-0158**
Do not wash your hands with chemicals (with clear laminate)	PE, self-adhesive	100×100	1	**116-0160**
Do not spray water (with clear laminate)	PE, self-adhesive	100×100	1	**116-0178**
Do not wash your hands with chemicals (with clear laminate)	PE, self-adhesive	200×200	1	**116-0161**

Prohibition signs

All signs comply with the requirements of BS 5378, COSHH and all relevant European legislation.

Description	Material	Dimensions (mm)	Pk	Cat. No.
No smoking	Vinyl, self adhesive	200×100	1	**116-0225**
No admittance	Vinyl, self adhesive	200×150	1	**116-0226**
No admittance. Authorised personnel only	Vinyl, self adhesive	200×150	1	**116-0125**
No entry	Vinyl, self adhesive	400×300	1	**116-0126**
No smoking. No drinking. No eating	Vinyl, self adhesive	300×300	1	**116-0127**
No smoking. No naked light	Vinyl, self adhesive	300×450	1	**116-0128**
No smoking (symbol only)	Vinyl, self adhesive	100×100	1	**116-0130**

Safe condition signs

All signs comply with the UK requirements of BS 5499-1 and the Health and Safety (Safety Signs and Signals) Regulations, 1996 and all relevant European legislation.

Description	Material	Dimensions (mm)	Pk	Cat. No.
First aid (symbol only)	Vinyl, self adhesive	150×110	1	**116-0104**
First aid (symbol only)	Vinyl, self adhesive	200×150	1	**116-0105**
Fire exit straight on	Vinyl, self adhesive	150×300	1	**116-0108**

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Description	Material	Dimensions (mm)	Pk	Cat. No.
Fire exit to the left	Vinyl, self adhesive	150×300	1	**116-0109**
Fire exit to the right	Vinyl, self adhesive	150×300	1	**116-0110**
First aid (with space for local details)	Vinyl, self adhesive	230×195	1	**116-0118**

Picto-Pack
Brady Corporation

Picto-Pack is a sensible combination of a wide range of signs and labels made from various materials:

- PE: Self-adhesive, laminated polyester
- PP: Polypropylene (not self-adhesive)
- V: Vinyl (photoluminescent edge)
- AL: Aluminium (photoluminescent edge)

Description	Material	Pk	Cat. No.
Chemical risks	PE/PP	1 SET	**116-0230**
Evacuation	PE/PP	1 SET	**116-0227**
Prohibition signs	PE	1 SET	**116-0267**
Mandatory signs	PE	1 SET	**116-0229**
Evacuation	Vinyl/Al	1 SET	**116-0228**

Pictograms for waste containers

Pictogram labels can be affixed to waste containers to simplify the waste separation process.

Description	Dimensions (mm)	Pk	Cat. No.
Pictogram for paper, blue	290×85	1	**129-3911**
Pictogram for glass, green	290×85	1	**129-3912**
Pictogram for plastics, yellow	290×85	1	**129-3913**
Pictogram for food waste, brown	290×85	1	**129-3914**
Pictogram for metal, red	290×85	1	**129-3915**

GHS pictograms
Brady Corporation

In line with the GHS (Global Harmonised System), identification elements need to be attached to chemical containers — in particular new warning symbols, hazard statements and safety data sheets. The new identification elements have been mandatory since 21 January 2009 and supplement the REACH regulation on the registration, evaluation, authorisation and restriction of chemicals.

- Available in four different sizes: 40×40 mm, 50×50 mm, 70×70 mm, 100×100 mm
- Black and red on white
- One roll contains 250 labels; cards with 4, 6 or 20 labels

Description	Type	Dimensions (mm)	Packed	Pk	Cat. No.
GHS pictograms, Explosive	Explosive	40×40	20/card	1	**116-0074**
GHS pictograms, Explosive	Explosive	50×50	250/roll	1 Roll	**116-0075**
GHS pictograms, Explosive	Explosive	70×70	6/card	1	**116-0076**
GHS pictograms, Explosive	Explosive	100×100	4/card	1	**116-0072**
GHS pictograms, Explosive	Explosive	100×100	250/roll	1 Roll	**116-0073**
GHS pictograms, Flammable	Flammable	40×40	20/card	1	**116-0079**
GHS pictograms, Flammable	Flammable	50×50	250/roll	1 Roll	**116-0080**
GHS pictograms, Flammable	Flammable	70×70	6/card	1	**116-0081**
GHS pictograms, Flammable	Flammable	100×100	4/card	1	**116-0077**
GHS pictograms, Flammable	Flammable	100×100	250/roll	1 Roll	**116-0078**
GHS pictograms, Oxidizing	Oxidising	40×40	20/card	1	**116-0084**
GHS pictograms, Oxidizing	Oxidising	50×50	250/roll	1 Roll	**116-0085**
GHS pictograms, Oxidizing	Oxidising	70×70	6/card	1	**116-0086**
GHS pictograms, Oxidizing	Oxidising	100×100	4/card	1	**116-0082**
GHS pictograms, Oxidizing	Oxidising	100×100	250/roll	1 Roll	**116-0083**
GHS pictograms, Compressed gases	Gas under Pressure	40×40	20/card	1	**116-0089**
GHS pictograms, Compressed gases	Gas under Pressure	50×50	250/roll	1 Roll	**116-0090**
GHS pictograms, Compressed gases	Gas under Pressure	70×70	6/card	1	**116-0091**
GHS pictograms, Compressed gases	Gas under Pressure	100×100	4/card	1	**116-0087**
GHS pictograms, Compressed gases	Gas under Pressure	100×100	250/roll	1 Roll	**116-0088**
GHS pictograms, Irritating	Health Hazard	40×40	20/card	1	**116-0094**
GHS pictograms, Health Hazard	Health Hazard	50×50	250/roll	1 Roll	**116-0095**
GHS pictograms, Health Hazard	Health Hazard	70×70	6/card	1	**116-0096**
GHS pictograms, Health Hazard	Health Hazard	100×100	4/card	1	**116-0092**
GHS pictograms, Health Hazard	Health Hazard	100×100	250/roll	1 Roll	**116-0093**
GHS pictograms, Hazardous to the environment	Dangerous for the Environment	40×40	20/card	1	**116-0099**
GHS pictograms, Hazardous to the environment	Dangerous for the Environment	50×50	250/roll	1 Roll	**116-0250**
GHS pictograms, Hazardous to the environment	Dangerous for the Environment	70×70	6/card	1	**116-0251**
GHS pictograms, Hazardous to the environment	Dangerous for the Environment	100×100	4/card	1	**116-0097**
GHS pictograms, Hazardous to the environment	Dangerous for the Environment	100×100	250/roll	1 Roll	**116-0098**
GHS pictograms, Respiratory Hazard	Respiratory Hazard	40×40	20/card	1	**116-0254**
GHS pictograms, Respiratory Hazard	Respiratory Hazard	50×50	250/roll	1 Roll	**116-0255**
GHS pictograms, Respiratory Hazard	Respiratory Hazard	70×70	6/card	1	**116-0256**
GHS pictograms, Respiratory Hazard	Respiratory Hazard	100×100	4/card	1	**116-0252**
GHS pictograms, Respiratory Hazard	Respiratory Hazard	100×100	250/roll	1 Roll	**116-0253**
GHS pictograms, Corrosive	Corrosive	40×40	20/card	1	**116-0259**
GHS pictograms, Corrosive	Corrosive	50×50	250/roll	1 Roll	**116-0260**
GHS pictograms, Corrosive	Corrosive	70×70	6/card	1	**116-0261**
GHS pictograms, Corrosive	Corrosive	100×100	4/card	1	**116-0257**
GHS pictograms, Corrosive	Corrosive	100×100	250/roll	1 Roll	**116-0258**
GHS pictograms, Toxic	Toxic	40×40	20/card	1	**116-0264**
GHS pictograms, Toxic	Toxic	50×50	250/roll	1 Roll	**116-0265**
GHS pictograms, Toxic	Toxic	70×70	6/card	1	**116-0266**
GHS pictograms, Toxic	Toxic	100×100	4/card	1	**116-0262**
GHS pictograms, Toxic	Toxic	100×100	250/roll	1 Roll	**116-0263**

Safety labels, according to GHS

These labels, made of PE film and with the GHS symbols, meet with GHS (global harmonised system) regulations for chemical substances and mixtures. The GHS symbols will replace traditional orange symbols (HSID) by 2015, when the pictogram on an orange square, and R and S phrases will disappear. The GHS symbols are based on the physical, health and environmental risks posed by the substance. The mandatory dates for conversion to GHS labelling are December 2010 for 'pure' chemical substances and June 2015 for chemical mixtures.

- Diamond shape
- Black print on white background in red frame
- Roll contains 500 labels in dispensing box

Description	Type	Dimensions (mm)	Pk	Cat. No.
GHS label, Oxidising	Oxidising	26×26	1 Roll	**116-0279**
GHS label, Explosive	Explosive	26×26	1 Roll	**116-0280**
GHS label, Gas under Pressure	Gas under Pressure	26×26	1 Roll	**116-0281**
GHS label, Environmental Toxicity	Dangerous for the Environment	26×26	1 Roll	**116-0282**
GHS label, Respiratory Sensitisation/Carcinogen	Health Hazard	26×26	1 Roll	**116-0283**
GHS label, Acute Toxicity	Toxic	26×26	1 Roll	**116-0284**
GHS label, Flammable	Flammable	26×26	1 Roll	**116-0285**
GHS label, Corrosive	Corrosive	26×26	1 Roll	**116-0286**
GHS label, Irritant	Irritant	26×26	1 Roll	**116-0287**

Hazard signs

All signs comply with the requirements of BS 5499, COSHH and all relevant European legislation.

Description	Type	Dimensions (mm)	Pk	Cat. No.
Warning: Acid, self-adhesive vinyl	Warning	200×150	1	**116-0133**
Warning: Caustic, self-adhesive vinyl	Warning	200×150	1	**116-0134**
Warning: Dangerous chemicals, self-adhesive vinyl	Biohazard	200×150	1	**116-0135**
Warning: Radiation risk, self-adhesive vinyl	Radiation	200×150	1	**116-0136**
Danger: Highly flammable, self-adhesive vinyl	Flammable	200×150	1	**116-0137**
Warning: Laser hazard, self-adhesive vinyl	Laser hazard	200×150	1	**116-0138**
Warning: Harmful fumes, self-adhesive vinyl	Health Hazard	400×300	1	**116-0139**
Danger: Biological hazard, self-adhesive vinyl	Biohazard	200×150	1	**116-0140**
Caution: Hot, self-adhesive vinyl	Caution	200×150	1	**116-0142**
Danger: Compressed gas, self-adhesive vinyl	Gas under Pressure	400×300	1	**116-0145**
Danger: Dangerous substance, self-adhesive vinyl	Toxic	400×300	1	**116-0148**

Hazard signs
Brady Corporation

All signs comply with current European legislation.

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Description	Type	Dimensions (mm)	Pk	Cat. No.
Hot surface	Caution	100×100	1	**116-0163**
Low temperature	Caution	100×100	1	**116-0164**
Danger high voltage	High Voltage	100×100	1	**116-0165**
Danger flammable materials	Flammable	100×100	1	**116-0166**
Explosion risk	Explosive	100×100	1	**116-0167**
Toxic material hazard	Toxic	100×100	1	**116-0168**
Danger corrosive materials	Corrosive	100×100	1	**116-0169**
Harmful or irritant material	Irritating	100×100	1	**116-0170**
Biological hazard	Biohazard	100×100	1	**116-0171**
Radioactive material	Radiation	100×100	1	**116-0172**
Explosion risk, self-adhesive with clear laminate	Explosive	50×50	7	**116-0179**
Explosion risk, self-adhesive with clear laminate	Explosive	100×100	3	**116-0180**
Toxic material hazard, self-adhesive with clear laminate	Toxic	50×50	7	**116-0181**
Radioactive material, self-adhesive with clear laminate	Radiation	50×50	7	**116-0182**
Caution non ionising radiation, self-adhesive with clear laminate	Radiation	50×50	7	**116-0183**
Oxidising substances, self-adhesive with clear laminate	Oxidising	50×50	7	**116-0184**
Harmful or irritant material, self-adhesive with clear laminate	Irritating	50×50	7	**116-0185**
Low temperature, self-adhesive with clear laminate	Caution	50×50	7	**116-0186**
Low temperature, self-adhesive with clear laminate	Caution	100×100	3	**116-0187**
Biological hazard	Biohazard	200×200	1	**116-0191**

Biohazard labels

Self-adhesive labels with Biohazard pictogram.

- Black markings on a fluorescent red background

Description	Type	Dimensions (mm)	Pk	Cat. No.
Biohazard	Biohazard	25×25	1.000	**116-2250**
Biohazard	Biohazard	76×51	500	**116-2251**
Biohazard	Biohazard	127×127	250	**116-2252**

Radioactivity indicator dots

Bel-Art Products

Stick-on dots with the radiation symbol on yellow background, which enables easy labelling of radioactive vessels.

- Ideal for marking micro-centrifuge tubes

Diameter: 6,5 mm

Colour coding complies with OSHA regulations.

Roll contains 1000 dots.

Description	Type	Pk	Cat. No.
Radioactivity indicator dots	Radiation	1 Roll	**116-1095**

Tape, hazard warning

Self-adhesive vinyl, PP laminated.

- Tape attracts the eye to avoid hazards or locate essential services
- Not recommended for use in direct sunlight
- Colours in accordance with BS 5378

Description	Width (mm)	Length (m)	Pk	Cat. No.
Tape, hazard warning	50	33,0	1	**116-0131**
Tape, hazard warning	100	33,0	1	**116-0132**

Labels, miniature

Miniature vinyl label with print "Pathological specimen fragile with care".

Description	Dimensions	Pk	Cat. No.
Pathological specimen tape	25 mm × 66 m	1 Roll	**819-0035**

Label printer, BMP™71
Brady

Mobile, thermal transfer, label printer that can print on more than 30 different types of of label including heat shrink sleeves, die-cut labels or indoor/outdoor vinyl. The 300 dpi printing mechanism has auto font sizing and can print text sizes from 4 pt to 174 pt (scaleable). Powered using an AC adaptor or with rechargeable battery for truly mobile operation, with up to 4000 labels per charge, the BMP™71 is versatile enough to meet most of your labelling requirements.

- High print speed 38 mm/sec
- Full keyboard saves time inputting data directly and full colour screen display shows the resulting whole label design
- Print width 46 mm and print length up to 1016 mm
- Internal memory - can save 100 000 labels
- Built in industrial label cutter

Ordering information: The BMP™71 prints all TLS2000 and Handimark label parts - for full details of the complete range of labels and ribbons please contact VWR. Fully compatible with LabelMark™ and MarkWare™ software for creation of labels on the PC- please ask for details.

Delivery information: Printer supplied with hard case, 2 label rolls, 1 black ribbon cartridge, rechargeable battery pack, AC adaptor, USB communications cable, TLS2000®/Handimark material roll adapter, quick start guide , product CD and cleaning kit.

Description	Pk	Cat. No.
Label Printer BMP™71 with Qwerty keyboard, UK-plug	1	**116-0371**

Description	Width (mm)	Length (m)	Colour	Pk	Cat. No.
Tapes for label printer BMP™71					
Label printer tapes for BMP™71, vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Black	1 Roll	**817-1000**
Label printer tapes for BMP™71, permanent vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Blue	1 Roll	**817-1001**
Label printer tapes for BMP™71, permanent vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Brown	1 Roll	**817-1002**
Label printer tapes for BMP™71, permanent vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Clear	1 Roll	**817-1003**
Label printer tapes for BMP™71, permanent vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Gold	1 Roll	**817-1004**
Label printer tapes for BMP™71, permanent vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Green	1 Roll	**817-1005**
Label printer tapes for BMP™71, permanent vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Grey	1 Roll	**817-1006**
Label printer tapes for BMP™71, permanent vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Orange	1 Roll	**817-1007**
Label printer tapes for BMP™71, permanent vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Purple	1 Roll	**817-1008**

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Description	Width (mm)	Length (m)	Colour	Pk	Cat. No.
Tapes for label printer BMP™71					
Label printer tapes for BMP™71, permanent vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Red	1 Roll	**817-1009**
Label printer tapes for BMP™71, permanent vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	White	1 Roll	**817-1010**
Label printer tapes for BMP™71, permanent vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Yellow	1 Roll	**817-1011**
Label printer tapes for BMP™71, permanent vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Black	1 Roll	**817-1012**
Label printer tapes for BMP™71, permanent vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Blue	1 Roll	**817-1013**
Label printer tapes for BMP™71, permanent vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Brown	1 Roll	**817-1014**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Clear	1 Roll	**817-1015**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Gold	1 Roll	**817-1016**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Green	1 Roll	**817-1017**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Grey	1 Roll	**817-1018**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Orange	1 Roll	**817-1019**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Purple	1 Roll	**817-1020**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Red	1 Roll	**817-1021**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	White	1 Roll	**817-1022**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Yellow	1 Roll	**817-1023**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Black	1 Roll	**817-1024**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Blue	1 Roll	**817-1025**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Brown	1 Roll	**817-1026**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Clear	1 Roll	**817-1027**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Gold	1 Roll	**817-1028**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Green	1 Roll	**817-1029**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Grey	1 Roll	**817-1030**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Orange	1 Roll	**817-1031**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Purple	1 Roll	**817-1032**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Red	1 Roll	**817-1033**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	White	1 Roll	**817-1034**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Yellow	1 Roll	**817-1035**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Light Blue	1 Roll	**817-1036**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Light Blue	1 Roll	**817-1037**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Light Blue	1 Roll	**817-1038**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Pink	1 Roll	**817-1039**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Pink	1 Roll	**817-1040**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Pink	1 Roll	**817-1041**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Ochre	1 Roll	**817-1042**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Ochre	1 Roll	**817-1043**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Ochre	1 Roll	**817-1044**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Sky Blue	1 Roll	**817-1045**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Sky Blue	1 Roll	**817-1046**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Sky Blue	1 Roll	**817-1047**

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Description	Width (mm)	Length (m)	Colour	Pk	Cat. No.
Tapes for label printer BMP™71					
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	50,8	15,2	Tan	1 Roll	**817-1048**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	25,4	15,2	Tan	1 Roll	**817-1049**
Label printer tapes for BMP™71, permanant vinyl, gloss finish, permanent acrylic adhesive	12,7	15,2	Tan	1 Roll	**817-1050**

Portable label printer, BMP™21-LAB

Brady

The BMP™21-LAB portable thermal printer is an all-in-one labeller for research, academic and clinical labs. With label materials designed specifically for harsh environments, the BMP21-LAB printer can quickly (10 mm/s) and easily create legible labels for flat, curved or highly textured surfaces that stay stuck for years even when exposed to extreme temperatures and chemicals.

- 3-line LCD display provides clear visibility
- Label materials available for applications such as cryo vials and slides
- Greek symbols commonly used in laboratory, intuitive menu structure for symbols
- Vial label function automatically cuts the tape according to the size of the vial
- Automated serialisation and time and date stamp
- Long life rechargeable lithium-ion battery (supplied in Starter kits)

Ordering information: For details of the full range of labels for the printer please visit www.vwr.com or contact your local VWR sales office.

Delivery information: BMP™21-LAB Starter Kit includes BMP™21-LAB printer, AC adapter, lithium ion battery, lanyard, quick start guide and polypropylene label cartridge (type M21-750-7425). Blister Pack contains BMP™21-LAB printer, lanyard, quick start guide and polypropylene label cartridge (type M21-750-7425).

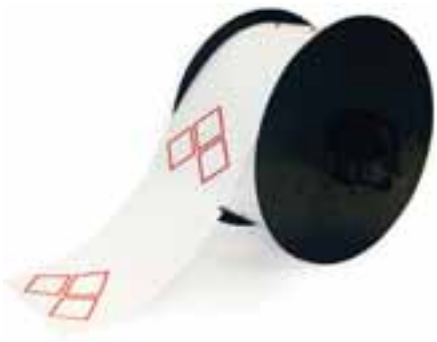
Description	Print width	W×D×H (mm)	Weight (kg)	Pk	Cat. No.
Label printer, BMP™21-LAB Starter Kit with UK-plug, 203 dpi	6 - 19 mm	235×125×50	0,75	1	**116-0419**
Label printer, BMP™ 21-LAB printer Blister Pack, 203 dpi	6 - 19 mm	235×125×50	0,75	1	**116-0420**

Width	Length	Material	Colour	Pk	Cat. No.
Laboratory durable labels					
9,53	6,4	Polyester	Black on White	1 Roll	**817-0112**
12,7	6,4	Polyester	Black on White	1 Roll	**817-0113**
19,05	6,4	Polyester	Black on White	1 Roll	**817-0114**
General laboratory ID labels					
9,53	6,4	Polyester	Black on White	1 Roll	**817-0115**
12,7	6,4	Polyester	Black on White	1 Roll	**817-0116**
19,05	6,4	Polyester	Black on White	1 Roll	**817-0117**
Labels for low surface energy items and textured surfaces					
9,53	6,4	Vinyl	White on Red	1 Roll	**811-0164**
12,7	6,4	Vinyl	White on Red	1 Roll	**811-0163**

Description	Pk	Cat. No.
Accessories		
AC adapter for BMP™ label printer, UK plug	1	**817-0110**

Sign and label printer, BBP™33

Brady



A PC based benchtop printer that can print signs or labels up to 101,6 mm wide. Suitable for many applications including safety, facility and lean/5S applications and die-cut materials for wire, laboratory or general identification.

- Single colour printing, 300 dpi, on continuous or die cut labels with built-in cutter
- The printer "reads" critical information from the inserted cartridges and automatically sets up the correct label parameters in the Brady software
- Intuitive multi-language user interface, so 'type in' and print without wasting labels
- Fast and effortless material changeovers
- Very wide range of label types and materials available

BBP™33 printer and laboratory label kit

Laboratory kit is supplied with BBP™33 sign and label printer, LabelMark™ software, 1× roll of polyester labels (white, 22,86×22,86 mm), 1× roll of self-laminating polyester labels (white, 25,40×15,24 mm) and 1× black heavy-duty ink ribbon.

BBP™33 printer and CLP/GHS label kit

CLP/GHS kit is supplied with BBP™33 sign and label printer, MarkWare™ software, 3× roll ofCLP/GHS preprinted chemical labels (1 and 2 diamonds), 1× roll of continuous polyester labels (57 mm×30,4 m) and 1× black heavy-duty ink ribbon.

Description	W×D×H (mm)	Weight (kg)	Pk	Cat. No.
BBP™33 printer and software packages				
BBP™33, 300 dpi with LabelMark™ and MarkWare™ software	230×304×241	5,3	1	**116-0354**
BBP™33 with UK-plug, 300 dpi with LabelMark™ and MarkWare™ software	230×304×241	5,3	1	**116-0355**
BBP™33 printer and laboratory label kit				
BBP™33 Laboratory label kit, printer with UK-plug	230×304×241	5,3	1 KIT	**116-0329**
BBP™33 printer and CLP/GHS label kit				
BBP™33 CLP/GHS label kit, printer with UK-plug	230×304×241	5,3	1 KIT	**116-0331**

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Fire blankets

Made from a composite material including two plies of glass fibre matting and one layer of flame-retardant foil. For extinguishing and smothering relatively small fires. Environmentally friendly, these blankets contain no asbestos.

- Heat resistant up to 550 °C
- Safe, dust-free storage in a covered plastic box labelled in three languages (German, English, French)
- Can be wall-mounted
- Unfold quickly with two ripcords

BS EN 1869

Description	L×W (mm)	Pk	Cat. No.
Fire blanket	1200×1200	1	**118-1105**
Fire blanket	1200×1800	1	**118-1106**

Chemical burn spray, Diphoterine®
Prevor

First aid procedures for chemical injuries often recommend rinsing the affected skin with water. But water causes the chemicals to penetrate deeper into the tissue. This first aid aerosol spray contains absorbing ingredients, which bind and neutralise chemicals immediately. The spray is sterile and has a shelf life of two years. 100 ml are needed to treat one cheek or hand, 200 ml for the face or one arm.

- Absorbs and binds chemicals
- Residues are neutral
- Can be sprayed onto hands and face

Description	Pk	Cat. No.
Chemical burn spray	106 ml	**118-1507**
Chemical burn spray	200 ml	**118-1011**

Burn gel spray and dressing
Cederroth

This burn gel provides rapid cooling and effective pain relief for burns. The spray and the dressing can be used for surface and partially deep burns, scalds, sunburn, electrical burns and itching, caused by, for example, stinging nettles, jellyfish or insect bites. They cool as effectively as running water and thus speed up the healing process.

- Water-soluble and non toxic gel
- Contains water-based (>90% water) gel with natural antiseptic tee tree oil (Melaleuca Oil)
- Cold reduces the pain and swelling and prevents the injury from penetrating the skin deeper
- Especially suitable for areas which do not have clean running water

L×W×H (dressing box): 125×35×65 mm

Description	Pk	Cat. No.
Burn gel dressing, 100×100 mm	2	**118-0224**
Burn gel spray, bottle of 50 ml	6	**118-0225**

Eye and wound cleansing spray
Cederroth

This cleansing spray is intended for rinsing and cleansing out dust and dirt from eyes and wounds. The portable spray bottle is filled with 150 ml physiological (0.9%) unbuffered sodium chloride solution.

- Solution is preservative-free and remains sterile until last drop
- Spray is suitable for use on both eyes and wounds
- Actuator is protected by a plastic cap and a tamper seal
- Nitrogen propellant is not in contact with the solution

Description	Pk	Cat. No.
Eye and wound cleansing spray, aluminium bottle filled with 150 ml sterile 0.9% sodium chloride	1	**118-0247**

Wound cleansers
Cederroth

Wound cleansers do away with cotton wool and bottles of antiseptic. These sterile, non woven tissues, which are saturated in a wound cleansing fluid (0.9% NaCl), are intended for the mechanical cleansing of minor wounds when clean tap water is not available.

- Tissues are packed in sealed sachets, which prevent leakage and guarantee sterility
- Savett sachets are packed in a refill box
- Salvequick cleansers fit into first-aid-stations

Description	Pk	Cat. No.
Savett cleaning wipes refill box, incl. 40 pcs sterile wound cleansers (110×120 mm)	1	**118-0025**
Salvequick cleaning wipes refill box, incl. 20 pcs sterile wound cleansers (110×120 mm)	20	**118-0250**

VWR SAFETY CATALOGUE

From head to toe protection

Request your copy from your local VWR sales office or vwr.com

Personal eyewash
Cederroth

Sterile, buffered, isotonic sodium chloride solution for rinsing eyes following an accident. Available as a single use, pocket version (235 ml) or wall-mounted (500 ml). The bottle opens automatically when twisted out of the wall bracket, and must therefore be used immediately.

- Quick and easy to open
- Eye cup protected from dust
- Generous flow of fluid for effective rinsing - the eye cup on the bottle channels the fluid to the eye, avoiding unnecessary spills
- Neutralises the pH value
- Expiry date: Four years if container not opened

Description	Pk	Cat. No.
Eyewash solution, sterile, pocket model, 235 ml	1	**111-0164**
Eyewash solution, sterile, 500 ml, twin pack	2	**118-0153**
Wall bracket for 500 ml bottle*	1	**118-0001**
Strap for wall bracket, for extra support for the bottle when located in vibrating environments	1	**118-0248**
Holster for pocket model, green, with belt loop, 8×4,5×16 mm	1	**111-0165**

* Bottle holder is supplied without eyewash

Eyewash station
Cederroth

Wall-mountable eyewash station with two 500 ml bottles which open automatically when they are twisted out of their holders. The solution works to neutralise eye pH, i.e. it has a neutralising effect on any alkali or acid splashes, giving a quicker result than a normal sodium chloride solution. Rinsing time: ~1,5 minutes.

- Contains Salvequick plaster dispenser (incl. 40 sterile fabric and 45 sterile plastic plasters), eyewash instructions and a key
- Features extra space for other accessories, e.g. Bloodstopper dressings, protective glasses or gloves
- Transparent door protects the products against dust and dirt and makes it easy to see when a refill is needed

W×D×H: 290×120×560 mm
Shelf life: 4,5 years

Ordering information: The eyewash bottles are included. The Salvequick plaster dispenser is included as well but can also be ordered separately for refilling.

Description	Pk	Cat. No.
Eyewash station with two 500 ml bottles and plaster dispenser	1	**118-0277**

Description	Pk	Cat. No.
Accessories		
Salvequick plaster dispenser (incl. 40 sterile fabric and 45 sterile plastic plasters)	1	**118-0159**
Eyewash solution, sterile, 500 ml, twin pack	2	**118-0153**

Eye rinse
Cederroth

This eyewash solution contains physiological sodium chloride solution (NaCl 0,9%) for rinsing dust and dirt out of the eyes.

- Sterile, for single use
- Relieves irritation in dry eyes
- Vial is easily opened and ready to use by twisting off the top

Delivery information: Supplied in a practical cardboard dispenser (incl. 10× 20 ml vials) for wall-mounting, or in a box (incl. 12× 20 ml vials) which fits in the first aid station.

Description	Pk	Cat. No.
Eyewash solution, 10 vials of 20 ml, packed in dispenser (25×120×202 mm)	1	**118-0243**
Eyewash solution, 12 vials of 20 ml, packed in box (70×63×118 mm)	12	**118-0244**

Eyewash station with one bottle
Plum

Wall-mounted station containing 1×500 ml eyewash complete with pictogram. Especially suitable for workplaces where on-the-spot rinsing is required.

Rinsing time: Approximately 5 minutes
W×D×H wall holder: 80×57×35 mm
W×D×H pictogram: 90×3×300 mm

Description	Pk	Cat. No.
Eyewash station with 1×500 ml eyewash	1	**118-1701**

Eyewash stations with two bottles
Plum

Open station

Wall box

Available as either an open station or closed and dust-proof wall box containing 2×500 ml Plum eyewash.

- Can be easily installed close to the workplace
- Complete with mirror and clear instructions to ensure rapid, correct rinsing in the event of an accident
- Open station not suitable for very dusty or dirty workplaces

Rinsing time: approx. 10 minutes
W×D×H open station: 230×80×290 mm
W×D×H boxed station: 227×110×265 mm

Description	Pk	Cat. No.
Open station		
Open eyewash station with 2×500 ml eyewash	1	**118-1705**
Wall box		
Dust-proof eyewash station with 2×500 ml eyewash	1	**118-1702**

Eyewash station and solution, Maxi
Plum

118-0238

118-0239

This wall station is equipped with two 1000 ml eyewash bottles, wall brackets, pictogram and mirror. The station is particularly suitable for use in workplaces where a longer rinsing time is required.

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The single bottle contains sterile sodium chloride solution (0,9%). It is equipped with an ergonomic eye cup and a dust cover. The bottle can be used for refilling the eyewash station.

Total rinsing time of the station: 20 minutes
W×D×H of the station: 300×132×240 mm
Shelf life: 3 years

Eyewash stations, pH Neutral
Plum

Available as either an open station or closed and dust-proof wall box containing 200 ml pH Neutral and 500 ml Plum eyewash. Especially suitable where there is a risk of eye injuries from acids or alkalis.

- Open station with mirror and pictogram (W×D×H: 230×80×290 mm)
- Wall box with mirror and eye wash sign (W×D×H: 227×110×265 mm)
- Wall box especially suitable for dusty and dirty production areas

Rinsing time: Approx. 2 minutes for pH Neutral, 5 minutes for eyewash
Shelf life: 3 years

Description	Pk	Cat. No.
Open eyewash station with two bottles (200/500 ml) of eyewash	1	**118-1708**
Eyewash box with two bottles (200/500 ml) of eyewash	1	**118-1709**

Eyewash solution, pH neutral
Plum

Sterile phosphate buffer solution (4,9%) for fast and effective neutralisation of acids and alkalis.

- Handy sized bottle, well suited for use in first aid kits and emergency bags
- Fits inside specially designed belt bag (available separately)
- Bottle with ergonomic eye cup, dust cap and clear instructions
- Can be used as refill for Plum wall-mounted eyewash station
- No maintenance and cleaning of the bottles required

Rinsing time: Approx. 2 minutes per 200 ml
Shelf life: 3 years

According to DIN EN 15154-4

Description	Pk	Cat. No.
Eyewash solution, pH neutral, 200 ml	1	**118-1707**

Description	Pk	Cat. No.
Accessories		
Belt bag for 200 ml eyewash bottles	1	**118-1704**
Blue wall-mountable holder for 200 ml pH neutral eyewash bottles	1	**118-1712**

Eyewash solution
Plum

500 ml

200 ml

Sterile sodium chloride solution (0,9%) in an eyewash bottle with eye cup and dust cap. Helps prevent foreign bodies (such as metal and wood chips) from sticking to the eye and causing serious eye injury.

- Ergonomically formed eye cup fits the eye and enables gentle and even rinsing
- 200 ml bottle particularly suitable for mobile use, such as in tool boxes or first aid kits
- Can be used to refill Plum eyewash stations
- No maintenance and cleaning of the bottles required

Rinsing time: Approx. 2 minutes per 200 ml, 5 minutes per 500 ml
Shelf life: 3 years

According to DIN EN 15154-4

Description	Pk	Cat. No.
Eyewash solution, 200 ml	1	**118-1703**
Eyewash solution, 500 ml	1	**118-1700**

Description	Pk	Cat. No.
Accessories		
Belt bag for 200 ml eyewash bottles	1	**118-1704**
Green wall-mountable holder for 200 ml and 500 ml eyewash bottles	1	**118-1711**

Eyewash cabinets and stations

Two types of emergency eyewash cabinets supplied with 2×500 ml bottles of sterile saline solution and a choice of two or four eye pads. The wall-mounted eyewash station is completed with 2×500 ml sterile saline solution, displayed instructions and a fitted mirror.

- Dust and dirt proof
- Choice of two cabinets and one emergency eyewash station
- Ideal for use in a workplace with fewer users

Ordering information: Spare solution bottles should be ordered separately.

Description	Pk	Cat. No.
Eyewash cabinet with 4 sterile eye pads and 2 × 500 ml sterile eyewash	1 KIT	**118-0115**
Eyewash cabinet with 2 sterile eye pads and 2 × 500 ml sterile eyewash	1 KIT	**118-0117**
Eyewash station complete, with sterile saline solution bottles, mirror and instructions	1 KIT	**118-0118**

Description	Pk	Cat. No.
Spare parts		
Eye wash solution, refill 500 ml	1	**118-0114**

Dispenser for eyewash pods

Wall-mounted eyewash pod dispenser with integrated mirror for easier self-administration.

- Clear instructions for use printed on front of cabinet
- Dust and dirt proof
- Will hold up to 30 pods (supplied empty)

Ordering information: Sterile pods (118-0113) need to be ordered separately.

Description	Pk	Cat. No.
Dispenser without pods	1	**118-0116**

Description	Pk	Cat. No.
Sterile pods		
Eye wash pods 20 ml	25	**118-0113**

Emergency shower, pH Neutral
Plum

Bottle containing 4,9% sterile phosphate buffer solution for neutralising acids and alkali on the skin.

- Bottle equipped with a spray nozzle to ensure that the liquid can be distributed rapidly and evenly over a large area of the body
- Suitable as refill for Plum emergency shower station

Rinsing time: ~2 minutes per 1000 ml
Shelf life: 3 years

Description	Pk	Cat. No.
pH Neutral emergency shower, 1000 ml	1	**118-1706**

Description	Pk	Cat. No.
Accessories		
Blue wall-mountable holder for 1000 ml pH Neutral bottles	1	**118-1710**

Emergency shower stations, pH Neutral
Plum

Wall-mounted station containing 1 litre of 4,9 % phosphate buffer solution, with pictogram.

- Suitable for mounting close to any workplace
- Excellent as a supplement to fixed emergency showers
- For fast neutralisation of acids and alkali on the skin

Rinsing time: ~2 minutes
Shelf life: 3 years

Description	Pk	Cat. No.
Shower station with wall-mounting device and pictogram, pH Neutral, 1000 ml	1	**118-0072**

Handheld eye shower with straight or angled head

Unique handheld eye shower with 45° angled or straight spray head.

- Fixed mount allows the user to keep both hands free
- Safe and easy to use lockable operating handle
- The shower stays on when handle is pressed once; without having to hold the handle down

Hose length: 1500 mm

Connection: ½"

Water output: 6 litres/min per shower head

Description	Pk	Cat. No.
Handheld eye shower for wall mounting, straight head	1	**118-1949**
Handheld eye shower for wall mounting, two 45° heads	1	**118-0150**
Handheld eye shower for table installation, two 45° heads	1	**118-1941**
Handheld eye shower for table installation, one 45° head	1	**118-1943**

Handheld eye shower

Space-saving eye shower that can be mounted next to a sink.

- Safe and easy to use lockable operating handle
- The shower stays on when handle is pressed once; without having to hold the handle down
- Can also be used to rinse other body parts

Hose length: 1500 mm

Connection: ½"

Water output: 6 litres/min per shower head

Description	Pk	Cat. No.
Handheld eye shower for mounting on a flat surface	1	**118-1938**

First aid station
Cederroth

This first aid cabinet has a transparent door with rubber edges, which protects against dust and dirt, thus making the equipment more hygienic and always ready for use. The station also features first aid instructions that are easy to follow. In addition, there are clear instructions on each product package.

- Adhesive bandages (plasters) and wound cleansers are placed in dispensers for easy access and theft-proof storage
- Plasters simply need to be pulled downwards, which avoids getting any dirt or blood on other areas
- Transparent door makes it easy to see when a refill of any product is needed
- Plaster refills and the wound cleanser dispenser are locked in order to avoid unnecessary waste (key is included)
- Space for additional products is provided behind a lid with first aid instructions

Contents:

2× Cederroth 4-in-1 Bloodstopper dressings
3× Cederroth 4-in-1 mini Bloodstopper dressings
1× Cederroth Protection Kit (aids in mouth-to-mouth resuscitation)
1× Salvequick plaster dispenser, including 45 sterile plastic plasters and 40 sterile fabric plasters
2× 20 Salvequick wound cleansers
1×2 Burn gel dressings
1× Eye & wound cleansing spray
First aid instructions
Refill key

Colour: Green

W×D×H (mm): 290×120×560

Description	Pk	Cat. No.
First aid station, for wall-mounting	1	**118-0276**

Description	Pk	Cat. No.
Accessories		
CPR protection kit, incl. mask, gloves and skin cleanser, packed in printed box	1	**118-0024**
Salvequick cleaning wipes refill box, incl. 20 pcs sterile wound cleansers (110×120 mm)	20	**118-0250**
Eye and wound cleansing spray, aluminium bottle filled with 150 ml sterile 0.9% sodium chloride	1	**118-0247**
Bloodstopper, two bandages (10 cm × 3 m) and one pad (14×23 cm)	1	**118-0018**
Mini Bloodstopper, for injuries to fingers and toes, one bandage (6 cm × 3 m) and one pad (8×12 cm)	1	**118-0022**
Burn gel dressing, 100×100 mm	2	**118-0224**
Fabric plasters		
Salvequick fabric plasters refill, incl. 40 sterile plasters (24 pcs 72×19 mm and 16 pcs 72×25 mm), UK/Ireland	6	**118-0060**
Salvequick XL fabric plasters refill, incl. 15 sterile plasters (87×58 mm)	6	**118-0028**
Salvequick XL fabric plasters refill, incl. 21 sterile plasters (14 pcs 80×30 mm and 7 pcs 80×60 mm)	6	**118-0030**
Plastic plasters		
Salvequick plastic plasters refill, incl. 45 sterile plasters (27 pcs 72×19 mm and 18 pcs 72×25 mm), UK/Ireland	6	**118-0059**
Detectable plasters		
Salvequick blue detectable plasters, incl. 35 sterile plasters (21 pcs 72×19 mm and 14 pcs 72×25 mm)	6	**118-0031**
Salvequick blue detectable plasters, fingertip/regular, incl. 30 sterile plasters (15 pcs 63×39 mm and 15 pcs 72×19 mm)	6	**118-0032**

First aid cabinets
Cederroth

118-0261

118-0262

118-0254

First aid cabinet with double door (118-0261)

This metal cabinet has two doors that divide the cabinet into two sections. The outer section is organised as a first aid panel with easily accessible products. A plexiglass door protects the products from dust and moisture. The inner section of the cabinet consists of a lockable space for a substantial stock of refill products.

Mini first aid cabinet with panel (118-0262)

This small metal cabinet comes with a mini first aid panel fixed on the door. Refills are stored in the lockable cabinet.

Mini first aid panel (118-0254)

This green, hard plastic panel can either be be put on the wall or attached to the mini first aid cabinet. The panel contains of a variety of first aid products and a first aid instruction.

Colour: Green

Contents	Cabinet with double door	Mini cabinet with panel	Mini panel
Fabric plasters refill	+	+	-
Plastic plasters refill	+	+	-
4-in-1 Bloodstoppers (standard + mini)	+	+	+
Triangular bandage	+	-	-
Savett wound cleansers + dispenser	+	-	-
Protection kit	+	+	-
Salvequick plaster dispenser	+	+	+
Pair of scissors	+	+	-
Pair of tweezers	+	+	-

Description	Pk	Cat. No.
First aid cabinet with double door, 410×190×600 mm	1	**118-0261**
Mini first aid cabinet with panel, 255×185×440 mm	1	**118-0262**
Mini first aid panel, 250×50×400 mm	1	**118-0254**

First aid boxes and kits
Cederroth

118-0259

118-0257

118-0256

First aid boxes: Medium, large or with transparent lid

- Rectangular-shaped boxes made of green hard plastic
- Large version also features a handle and equipment compartments
- Box with transparent lid also features a handle
- Includes first aid instructions

First aid kit for excursions

- Packed in a cover made of strong green nylon, with zip along three sides
- First aid products are organised in different pockets: Easy overview and fast access

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• First aid instructions printed inside the cover

Content	First aid box medium	First aid box large	First aid box with transparent lid	First aid kit excursion
Plastic adhesive bandages	√	√	-	-
Fabric adhesive bandages	-	√	√	√
Savett wound cleanser	√	√	√	√
Savett safety skin cleanser	-	-	-	√
4-in-1 Bloodstopper (standard + mini sized)	√	√	√	√
Protection kit	√	√	√	-
Head dressing	√	√	√	-
Elastic bandage	-	√	√	-
Small pair of scissors	√	√	√	√
Pair of tweezers	√	√	√	√
Plastic gloves and breathing mask	-	-	-	√
Cooling bag	-	-	√	-
Rescue blanket	-	-	√	-

Description	Pk	Cat. No.
Medium first aid box, rectangular-shaped, green hard plastic, 260×80×170 mm	1	118-0259
Large first aid box, rectangular-shaped, green hard plastic, 400×280×85 mm	1	118-0257
First aid box with transparent lid, rectangular-shaped, green hard plastic, 400×280×90 mm	3	118-0258
First aid kit for excursions, green nylon cover with zip, 197×60×105 mm	1	118-0256

Description	Pk	Cat. No.
Accessories		
CPR protection kit, incl. mask, gloves and skin cleanser, packed in printed box	1	118-0024
Bloodstopper, two bandages (10 cm × 3 m) and one pad (14×23 cm)	1	118-0018
Mini Bloodstopper, for injuries to fingers and toes, one bandage (6 cm × 3 m) and one pad (8×12 cm)	1	118-0022

Adhesive plasters, Salvequick
Cederroth

Description	Pk	Cat. No.
Fabric plasters		
Salvequick fabric plasters refill, incl. 40 sterile plasters (24 pcs 72×19 mm and 16 pcs 72×25 mm), UK/Ireland	6	118-0060
Salvequick XL fabric plasters refill, incl. 15 sterile plasters (87×58 mm)	6	118-0028
Salvequick XL fabric plasters refill, incl. 21 sterile plasters (14 pcs 80×30 mm and 7 pcs 80×60 mm)	6	118-0030
Plastic plasters		
Salvequick plastic plasters refill, incl. 45 sterile plasters (27 pcs 72×19 mm and 18 pcs 72×25 mm), UK/Ireland	6	118-0059
Detectable plasters		
Salvequick blue detectable plasters, incl. 35 sterile plasters (21 pcs 72×19 mm and 14 pcs 72×25 mm)	6	118-0031
Salvequick blue detectable plasters, fingertip/regular, incl. 30 sterile plasters (15 pcs 63×39 mm and 15 pcs 72×19 mm)	6	118-0032
Sensitive plasters		
Salvequick non woven plasters refill, incl. 43 plasters (27 pcs 72×19 mm and 16 pcs 72×25 mm), suitable for use on sensitive skin due to lower skin adhesion	6	118-0029

Detectable plasters, Salvequick
Cederroth

118-0160

118-0031

These blue, detectable plasters are specially designed for use in the food industry. They are intended for first aid situations on minor wounds. The plasters are available in either a box or in combination with the wall-mountable Salvequick dispenser.

• Plasters are detectable by most metal detectors used within the food industry
• Blue colour also makes the plasters easy to see
• Dispenser can easily be used with one hand and is quickly refilled, refills are locked

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• Transparent lid of dispenser protects against dust

L×W×H (Salvequick dispenser): 50×230×110 mm

Packaging: Each plaster is individually wrapped.

Description	Pk	Cat. No.
Salvequick plaster dispenser, ABS, green, incl. 35 plasters 72×19 mm and 35 plasters 72×25 mm	1	**118-0160**
Salvequick detectable plasters, blue, 72×19 mm, packed in a box	300	**118-0223**

Description	Pk	Cat. No.
Detectable plasters		
Salvequick blue detectable plasters, incl. 35 sterile plasters (21 pcs 72×19 mm and 14 pcs 72×25 mm)	6	**118-0031**
Salvequick blue detectable plasters, fingertip/regular, incl. 30 sterile plasters (15 pcs 63×39 mm and 15 pcs 72×19 mm)	6	**118-0032**

Bandages, Salvequick
Cederroth

Salvequick Quick Healing 50-P

These bandages are island dressings made of a transparent, very thin and flexible adhesive foil with a highly absorbent, non adherent wound pad. The foil is supported by a plastic foil which needs to be removed at the time of use. The bandages are waterproof and promote moist wound healing which accelerates wound healing and reduces pain and scarring.

Salvequick Maxi Cover 50-P

Salvequick Maxi Cover is a quick dressing consisting of a compress and self-adhesive material. Suitable for large wounds which normal plasters can not cope with. Gentle adhesive material and highly-absorbent cushion. Each box contains 50 sterile wrapped plasters.

Description	L×W (mm)	Pk	Cat. No.
Salvequick Quick Healing 50-P			
Adhesive bandages with PU foil, individually paper/plastic wrapped, wound pad 35×24 mm	65×52	50	**118-0265**
Salvequick Maxi Cover 50-P			
Large adhesive bandages, non woven material, individually wrapped in paper, wound pad 50×26 mm	76×54	50	**118-0266**

Bandages, soft foam
Cederroth

This self-adhesive bandage can be used as both a plaster and a bandage. It is suitable for any kind of small wound in all hot, cold, wet and dry conditions and will stay in place in water. In the event of heavy bleeding, the soft foam bandage works as a "cushion" to create a tournique.

• Glue-free plaster: Does not stick to the wound or skin
• Elastic for perfect fit
• Blue coloured version is ideal for use when handling food

Please note: Contains latex.
Shelf life 5 years.

Description	L×W (mm)	Pk	Cat. No.
Self-adhesive bandage, made of polyurethane foam and natural latex, natural colour	2000×60	2	**118-0245**
Self-adhesive bandage, made of polyurethane foam and natural latex, blue colour	2000×60	2	**118-0246**

First-aid kits

118-0119

The contents of the following first aid kits meet the requirements as specified in the HSE Approved Code of Practice. The code of practice states 'An employer should make an assessment of the first aid needs appropriate to the circumstance of each workplace'. To assist in selecting the appropriate kit, employee ratios are given as guidance provided by the British Healthcare Trade Association.

Content	Travel Kit, 1 Person	Vehicle Kit	Std., 10 People	Med., 20 People	Large, 50 People	Std. Catering, 10 People	Med. Industrial, 20 People	Large Industrial, 50 People
Cat. No.	118-0123	118-0126	118-0119	118-0122	118-0130	118-0120	118-0121	118-0129
First aid guidance leaflet	1	1	1	1	1	1	1	1
Waterproof plasters, sterile	6	20	20	40	60	20 Blue	120	120
Eye pads with bandages, non-woven	-	-	2	4	6	2	4	6
Triangular bandages, non-woven	2	2	4	6	8	4	6	8
Safety pins	6	6	6	12	12	6	12	12
Sterile dressings, medium/new size	-	1	6	9	12	6	9	12
Sterile dressings, large/new size	1	1	2	3	4	2	3	4
Individual wrapped wipes	4	10	10	10	20	10	40	40
Disposable examination gloves (pair)	1	-	1	2	3	1 Blue	100	100
Cool gel sachets for burns	-	-	-	-	-	3	-	-
Blue plaster strapping	-	-	-	-	-	1	-	-
Cotton bandages, assorted	-	2	-	-	-	-	-	-
Windscreen stickers	-	1	-	-	-	-	-	-
Micro-porous dressing tapes, 25 mm	-	1	-	-	-	-	-	-
Skin closure adhesives, sterile	-	-	-	-	-	-	2	2
Plastic fingerstalls, assorted	-	-	-	-		12 Blue	12 Blue	12 Blue
Dressing scissors	-	-	-	-	-	-	1	1
Hygienic resuscitation kits	-	-	-	-	-	-	2	2
Eyewash, sterile, 20 ml	-	2	-	-	-		10	10
Primapore wound dressings, 80×80 mm	-	-	-	-	-	-	8	10
Primapore wound dressings, 120×80 mm	-	-	-	-	-	-	4	6
Emergency foil blankets	-	-	-	-		-	1	1
Wall brackets	-	-	1	1	1	1	1	1

Description	Pk	Cat. No.
Statutory first aid kits – low risk		
First aid catering kit, 1 - 10 people	1 KIT	**118-0120**
Standard first aid kit, 1 - 10 people	1 KIT	**118-0119**
Medium first aid kit, 11 - 20 people	1 KIT	**118-0122**
Large first aid kit, 21 - 50 people	1 KIT	**118-0130**

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Description	Pk	Cat. No.
Refills for first aid kits – low risk		
Refill for standard kit	1 KIT	**118-0132**
Refill for catering kit	1 KIT	**118-0133**
Refill for medium kit	1 KIT	**118-0134**
Refill for large kit	1 KIT	**118-0135**

Description	Pk	Cat. No.
Refills for first aid kits		
Triangular bandages	6	**118-0105**
Wipes, cleansing, alcohol free	100	**118-0106**
Assorted blue plasters, waterproof, ideal for catering	100	**118-0107**
Sterile wound dressings, medium, individually wrapped	6	**118-0108**
Sterile wound dressings, large, individually wrapped	6	**118-0109**
Eye dressings with bandages, sterile	6	**118-0110**
Assorted fabric plasters, breathable and washproof, natural	100	**118-0111**
Assorted plasters, sterile, washproof and hypoallergenic, natural	100	**118-0112**
Safety pins for securing bandages	36	**118-0131**

Washproof plasters, HypaPlast

These plasters are ideal for the treatment of wounds, cuts and other minor injuries that do not require a bandage.

- High quality hypoallergenic plasters
- Good sticking quality, washproof
- Individually wrapped and sterile

Description	Pk	Cat. No.
Box with 100 individually wrapped plasters (72×25 mm)	100	**118-0279**

Accident book

By law every business must record accidents to employees and visitors. This Accident book enables compliance with all requirements of the Social Security Administration Act 1992 and Data Protection Act 1998.

- Aids compliance with the Data Protection Act
- Space to record a total of 26 incidents
- Provides a quick and easy system for recording accidents in the workplace

Description	Pk	Cat. No.
Accident book, A5	1	**818-0246**

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VWR2Go provides the essential features from our web-based shop system on mobile phones and tablets

Real time, intuitive searching and ordering of over one million items

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Safety posters

The Chemical Spills poster has clear step by step instructions on how to react in case of a chemical spill and how to provide treatment to someone that has been affected. The poster is designed for both first aiders and non first aiders with the essential first aid and safety information.

The COSHH poster is designed to help protect employees and avoid costly accidents. User friendly text and clear instructions show employees how to prevent accidents and injury whilst maintaining a healthy working environment.

- Fully coloured illustrations and clear step by step instriuctions with easy to follow text
- Compiled by qualified health and safety practitioners
- Encapsulated finish for superior durability

Description	Pk	Cat. No.
Chemical spills poster 590x420 mm	1	**116-0423**
COSHH guidance poster, 590×420 mm	1	**116-0424**

Organic vapour monitors
3M

Monitors use the proven scientific principle of diffusion, which involves the gradual mixing of molecules of two or more substances. They are designed for measuring personal exposure in work areas in a variety of industries.

Ethylene oxide monitor

- Ethylene oxide monitor utilises brominated carbon to collect and convert the reactive ethylene oxide to a more stable chemical derivative, 2-bromoethanol
- This compound is then desorbed with methylene chloride in methanol
- It meets OSHA requirements for accuracy within ±25% for 8-hour samplings at 1 ppm and the requirement for accuracy within ±35% for 8-hour samplings at the action limit

Formaldehyde monitor

- Formaldehyde monitor uses a bisulphite-impregnated filter and is analysed by colorimetry
- It can be used for 8-hour TWA sampling to meet the OSHA requirement of ±25% accuracy at 0,5 - 5,0 ppm
- This monitor does not have the sensitivity for short-term exposure limit (STEL) monitoring

Organic vapour monitor

- This monitor uses a single charcoal sorbent wafer for collecting organic vapours
- Accuracy of ±25% at a 95% confidence level for many workplace contaminants

Organic vapour monitor with back-up section

- This monitor is suitable for monitoring compounds like acrylonitrile, butadiene and methylene chloride for which activated carbon shows limited capacity
- Accuracy of ±25% at a 95% confidence level for many workplace contaminants

All monitors have an 18-month shelf life.

Description	Pk	Cat. No.
Ethylene oxide monitor	5	**514-0007**
Formaldehyde monitor	5	**514-0008**
Organic vapour monitor	1	**151-0150**
Organic vapour monitor with back-up section	1	**151-0151**

Gas detection system, Gastec®, NF EN 1231

Identify and measure specific gases with the Gastec® sampling pump and gas tubes

Use the specially designed manual pump to draw a precise 100 ml air sample through a gas analyser tube. The resulting length-of-stain colour change can be read directly off the tube's calibration scale, yielding an accurate concentration.

- Fast, accurate readings in about a minute

Gastec® sampling pump

- Single-stroke operation for most measurements
- Ergonomically designed sure-grip shape, lightweight and corrosion resistant
- Built-in tube tip breaker makes tip breaking easy, safe, and convenient
- Integral flow-finish indicator lets you know when sampling is complete

Gas tubes

Crystal clear tubes, distinct colour changes, and easy to read calibration scale for accurate direct-reading measurements.

Ordering information: Other tubes available on request.

Description	No.	Range	Pk	Cat. No.
Gas tubes				
Acetic acid	81	50 - 100/2 - 50/1 - 2 ppm	10	**151-0058**
Acetic acid	81L	10 - 25/0,25 - 10/0,125 - 0,25 ppm	10	**151-0059**
Acid gases	80	40 - 80/2 - 40/1 - 2 ppm	10	**151-0057**
Ammonia	3La	100 - 200/5 - 100/2,5 - 5 ppm	10	**151-0037**
Ammonia	3L	30 - 78/1 - 30/0,5 - 1 ppm	10	**151-0036**

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Description	No.	Range	Pk	Cat. No.
Gas tubes				
Arsine	19LA	2,4 - 10/1,5 - 2,4/0,1 - 1,5/0,04 - 0,1 ppm	10	**151-0014**
Benzene	121	60 - 120/5 - 60/2,5 - 5 ppm	10	**151-0007**
Benzene	121L	12 - 60/0,25 - 12/0,125 - 0,25 ppm	10	**151-0008**
Bromine	8La	8 - 16 /0,5 - 8/0,05 - 0,5 ppm	10	**151-0061**
Carbon dioxide	2H	1 - 10% /0,5 - 1%	10	**151-0026**
Carbon dioxide	2L	3 - 6% /0,25 - 3% /0,13 - 0,25%	10	**151-0027**
Carbon dioxide	2LC	100 - 2000/2000 - 4000 ppm	10	**151-0028**
Carbon dioxide	2LL	300 - 5000 ppm	10	**151-0029**
Carbon monoxide	1HH	2 - 40%	10	**151-0016**
Carbon monoxide	1L	1000 - 2000 ppm	10	**151-0017**
Carbon monoxide	1La	500 - 1000 ppm	10	**151-0018**
Carbon monoxide	1LK	100 - 300/5 - 100 ppm	10	**151-0019**
Carbon monoxide	1LL	5 - 50 ppm	10	**151-0020**
Carbon tetrachloride	134	2,5 - 60/0,5 - 2,5 ppm	10	**151-0010**
Ethanol	112L	100 - 2000/50 - 100 ppm	10	**151-0003**
Hydrogen fluoride	17	20 - 100/0,5 - 20/0,25 - 0,5 ppm	10	**151-0013**
Hydrogen peroxide	32	0,5 - 10 ppm	10	**151-0031**
Hydrogen sulphide	4H	2000 - 4000/100 - 2000/10 - 100 ppm	10	**151-0038**
Hydrogen sulphide	4HH	2 - 4% /0,1 - 2%	10	**151-0039**
Hydrogen sulphide	4HM	800 - 1600/50 - 800/25 - 50 ppm	10	**151-0040**
Hydrogen sulphide	4HT	20 - 40% /2 - 20% /1 - 2%	10	**151-0041**
Hydrogen sulphide	4L	120 - 240/10 - 120/1 - 10 ppm	10	**151-0042**
Hydrogen sulphide	4LL	60 - 120/2,5 - 60/0,25 - 2,5 ppm	10	**151-0043**
Hydrogen sulphide	4LT	2 - 4/0,2 - 2/0,1 - 0,2 ppm	10	**151-0044**
Hydrogen sulphide	4M	12,5 - 500 ppm	10	**151-0045**
Mercaptans	70	5 - 120/0,5 - 5 ppm	10	**151-0054**
Mercaptans	70L	0,5 - 4 ppm	10	**151-0055**
Methyl bromide	136LA	18 - 36/1 - 18 ppm	10	**151-0011**
Nitric acid	15L	20 - 40/1 - 20/0,1 - 1 ppm	10	**151-0012**
Nitric oxides	11HA	50 - 2500 ppm	10	**151-0005**
Nitric oxides	11S	250 - 625/10 - 250/5 - 10 ppm	10	**151-0006**
Oxygen	31B	6 - 24% /3 - 6%	5	**151-0030**
Phosphine	7L	0,3 - 5/0,15 - 0,3 ppm	10	**151-0056**
Sulphur dioxide	5L	100 - 200/5 - 100/2,5 - 5/1,25 - 2,5 ppm	10	**151-0047**
Sulphur dioxide	5LC	10 - 25/0,25 - 10/0,1 - 0,25 ppm	10	**151-0048**
Sulphur dioxide	5M	1800 - 3600/100 - 1800/20 - 100 ppm	10	**151-0049**
Toluene	122L	1 - 70 ppm	10	**151-0009**
Gas tubes for controlling compressed air				
Carbon monoxide	1A	5 - 50 ppm	10	**151-0015**
Carbon dioxide	2A	250 - 3000 ppm	10	**151-0024**
Carbon dioxide	2AG	200 - 3000 ppm	10	**151-0025**
Oil	109A	0,3 - 1,5 mg/m^3	10	**151-0001**
Oil	109AD	0,3 - 3,0 mg/m^3	10	**151-0002**
Nitric oxides (NOX)	11A	0,02 - 0,7 ppm	10	**151-0004**
Water vapour	6A	30 - 80 mg/m^3	10	**151-0051**
Water vapour	6AG	150 - 3000 mg/m^3	10	**151-0052**
Water vapour	6AH	500 - 5000 ppm	10	**151-0053**
Special tubes and kits				
Polytec tubes, multipurpose	107		10	**151-0000**
Polytec tubes NH_3, SO_2, H_2S, CO, NO_2, RSH	25		10	**151-0021**
Polytec tubes NH_3, H_2S, CnHm	26		10	**151-0022**
Polytec tubes NH_3, HCl, H_2S, Cl_2, NO_2, CO and CO_2	27		10	**151-0023**
Propane detection kit	600		1 KIT	**151-0050**
Pyrolyser, enables detection of fluorochlorocarbon gases	840		1	**151-0060**
Case with detection kit for toxic gases	TG-1		1	**151-0068**
Pumps				
Gas sampling pump kit, GV-100S, with compact case and accessories (3 rubber inlets and lubricant)			1	**151-0064**
Gas sampling pump kit, GV-100LS, with shoulder case and accessories (3 rubber inlets and lubricant)			1	**151-0063**
Gas sampling pump kit, GV-110S, with pump stroke counter, compact case and accessories (3 rubber inlets and lubricant)			1	**118-0080**
Pump accessories				
One hand operating adapter, GV-700			1	**151-0065**
Extension sampling pole, 350BP-2, 625 mm to 2,8 m, 590 g			1	**118-0161**
Hot probe, GV340, for accurate measurement of hot gases			1	**151-0032**

Safety shield, single piece
SciLabware

PC, transparent, thickness: 4 mm

Very strong and lightweight safety shield.

- Excellent protection in potentially explosive situations
- Stand can be clamped or bolted onto the bench to give greater stability

Delivery information: Supplied with a pair of plastic coated metal feet.

Form	W×H (mm)	Pk	Cat. No.
U-shaped	550×610	1	**113-1308**

VWR COLLECTION

SELECTED FOR YOU

Beta radiation shields

Acrylic, transparent, thickness: 10 mm

For use on work tables or in fume cupboards. For protection from low-energy beta radiation.

- Absorb 99,5% of ^{32}P beta radiation
- Stable and easy to clean
- Also protects from splashes

Form	W×D×H (mm)	Pk	Cat. No.
Angled	304×150×450	1	**113-8820**
Dual angled	304×150×450	1	**113-8821**

Beta radiation shields, Nalgene®
Thermo Scientific

Acrylic, transparent, thickness: 9 mm

- The deep base (305 mm) provides a large flat work surface and minimises the risk of "hot spots" on the lab bench
- Designed to protect the lab worker when handling beta emitting isotopes

Meets OSHA Standard 29 CFR Part 1910, 1030

Form	W×D×H (mm)	Pk	Cat. No.
Angled	305×305×457	1	**113-2803**
Angled	457×305×610	1	**113-2804**

Beta storage box

Acrylic, transparent, thickness: 10 mm

For the shielded storage of isotopic solutions or radioactive samples. With foam inserts for secure storage of lead capsules or flasks containing isotopic solutions.

- Suitable for long-term storage at temperatures as low as –70 °C
- Sturdy, stackable, with attached hinged lid
- Easy identification of samples without lifting the lid

Description	W×D×H int. (mm)	Pk	Cat. No.
Beta radiation storage box	165×85×55	1	**113-8985**

Beta storage rack for test tubes

Acrylic, crystal clear, thickness: 10 mm

The solid cast block with 4×6 bore holes for 1,5 ml test tubes provides optimum protection during transport and storage of solutions with high specific activity. The bore holes are spaced appropriately to ensure easy handling of the test tubes and minimise risk of contamination.

- Protects the base and sides of the test tubes up to the height of the recommended filling volume
- Removable lid to shield the test tube closures
- Stackable and easy to clean

W×D×H (lid): 181×124×29 mm

For tubes (ml)	No. of holes	W×D×H (mm)	Pk	Cat. No.
1,5	4×6	171×118×44	1	**113-8978**

Beta radiation bin

Acrylic, transparent, thickness: 10 mm

For short-term storage or disposal of contaminated pipette tips, cannulae, test tubes and other small parts.

- Attached hinged lid for easy and effortless emptying
- Additional mini hinged lid for closing the filling aperture
- Robust, stable and easy to clean

Description	W×D×H (mm)	Pk	Cat. No.
Beta radiation bin	150×150×150	1	**113-8975**

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Beta radiation bins

Acrylic, transparent, thickness: 10 mm

Maximum protection for short-term storage or disposal of contaminated materials.

- Attached hinged lid for easy filling and quick emptying
- Sturdy, stable and easy to clean

Description	W×D×H (mm)	Pk	Cat. No.
Beta radiation bin	150×150×150	1	**113-8976**
Beta radiation bin	200×200×250	1	**113-8977**

Beta radiation bins

Acrylic, transparent, thickness: 10 mm

Maximum protection for short-term storage or disposal of mildly contaminated materials.

- Attached hinged lid for easy filling and quick emptying
- Robust, manoeuvrable and easy to clean

W×D×H (inner): 285×285×580 mm

Description	W×D×H ext. (mm)	Pk	Cat. No.
Beta radiation waste bin	305×305×600	1	**113-8993**

Beta radiation bin, Nalgene®
Thermo Scientific

Acrylic, transparent, thickness: 9 mm

- HDPE 2 litre bottle for liquid waste is included; organic solvents may require a different bottle
- Shield encases the waste bottle without obstructing access

Delivery information: Supplied with PE bottle for liquid waste.

Description	Ø×H (mm)	Pk	Cat. No.
Waste bin for 2 litre	140×286	1	**113-2806**

Beta radiation bins, Nalgene®
Thermo Scientific

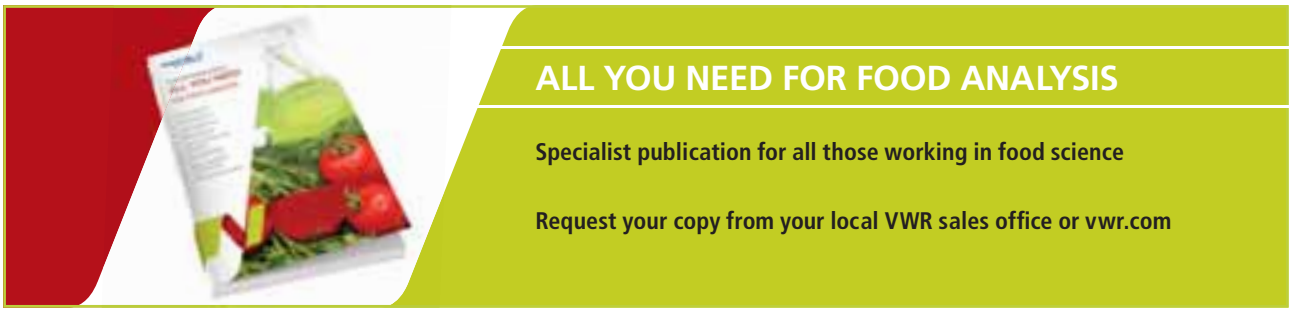
Acrylic, transparent, thickness: 9 mm

Completely encloses a large container holding solid or liquid radioactive waste. Accommodates 20 litre carboys and standard office size trash cans. Smaller bin accommodates 10 litre containers.

- Large hinged door on cover allows easy access to the waste receptacle
- Leakproof tray contains spills
- Hinged corners allow removal of receptacle

W×D×H (inner): 406×406×736 mm (20 litre) 286×286×406 mm (10 litre)

Description	W×D×H int. (mm)	W×D×H ext. (mm)	Pk	Cat. No.
Beta radiation boxes with hinged lid for 10 litres	286×286×406	330×330×432	1	**113-8170**
Beta radiation boxes with hinged lid for 20 litres	406×406×736	457×457×737	1	**113-2809**



Biohazard transport carriers, Nalgene®
Thermo Scientific

Transparent PC with silicone gasket and PC clamps

This closed system carrier is designed to protect the lab worker during transportation of tubes filled with potentially hazardous samples. It is autoclavable without removing lid or opening clamps to avoid hazardous exposure. Warning labels are included.

- For 13 or 16 mm Vacutainer test tubes
- Adaptable for other test tubes
- Tough and break resistant with excellent visibility of contents
- Easy to grasp side handles are moulded in
- Clamps hold the carrier securely closed and ensure leakproof seal

Meets OSHA Standard 29 CFR Part 1910.1030 for use as protection against blood borne pathogens.

Ordering information: Stainless steel handle to be ordered separately.

Description	W×D×H (mm)	Pk	Cat. No.
Test tube carrier	184×368×171	1	**113-8185**

Description	Pk	Cat. No.
Accessories		
Stainless steel handles	1	**113-8186**
Replacement latches	4	**720-1986**

Safety cans
Rötzmeier

High quality and chemically resistant stainless steel with PTFE gaskets

For safe and comfortable handling of small amounts of flammable liquids.

- Easy handling, ergonomic design and high stability
- Flame traps and explosion-proof
- Pressure relief valve (vent at about 0.3 bar)
- Self-closing metering devices
- Moisteners for safe cleaning with solvents

Description	Capacity (l)	Pk	Cat. No.
Safety can with screw cap 1¼"	1	1	**119-0103**
Safety can with screw cap 1¼", electro-polished	1	1	**119-2000**
Safety can with screw cap 1¼"	2	1	**119-0106**
Safety can with screw cap 1¼", electro-polished	2	1	**119-2042**
Safety can with screw cap 1¼"	5	1	**119-0114**
Safety can with screw cap 1¼", electro-polished	5	1	**119-2005**
Safety can with metering device 1¼"	1	1	**119-0102**
Safety can with metering device 1¼", electro-polished	1	1	**119-0101**
Safety can with metering device 1¼"	2	1	**119-0105**
Safety can with metering device 1¼", electro-polished	2	1	**119-0104**
Safety can with metering device 1¼"	5	1	**119-0107**
Safety can with metering device 1¼", electro-polished	5	1	**119-0171**
Moistener	1	1	**119-0112**
Moistener	2	1	**119-0113**

Description	For	Pk	Cat. No.
Accessories			
Self-closing metering device 1¼" with ventilation	All Rötzmeier safety cans and moisteners	1	**119-2390**
Screw cap 1¼" with pressure control valve	All Rötzmeier safety cans and moisteners	1	**119-0144**
Soaking tray with pump for safety can, 1 l	119-2000, -0103, -0101, -0102	1	**119-0139**
Soaking tray with pump for safety can, 2 l	119-2042, -0106, -0104, -0105	1	**119-0140**
Flame trap	All Rötzmeier safety cans, moisteners and safety transportation cans	1	**119-0170**

Safety canisters
Rötzmeier

Stainless steel

Canister shape maximises the usage of limited storage space, e.g. in safety cabinets.

- In-plant use of flammable liquids, such as solvents
- Explosion-proof due to flame traps (removable) and pressure control valves
- Taps and metering devices are self-closing
- High quality and chemically resistant stainless steel (0,8 mm thick) with PTFE gaskets
- Easy handling due to ergonomic design
- Models with self-closing taps are equipped with a separate ventilation screw and are suitable for horizontal storage and decanting

Description	Capacity (l)	Pk	Cat. No.
Safety canister with screw cap 1½"	5	1	**119-2045**
Safety canister with self-closing metering device 1½"	5	1	**119-0172**
Safety canister with self-closing tap 1½" and sep. ventilation	5	1	**119-2180**
Safety canister with screw cap 1½"	10	1	**119-2046**
Safety canister with self-closing metering device 1½"	10	1	**119-0116**
Safety canister with self-closing tap 1½" and sep. ventilation	10	1	**119-2181**
Safety canister with screw cap 1½"	20	1	**119-0121**
Safety canister with self-closing metering device 1½" and sep. ventilation	20	1	**119-2182**
Safety canister with self-closing tap 1½" and sep. ventilation	20	1	**119-2380**

Description	For	Pk	Cat. No.
Accessories			
Self-closing metering device 1½" for safety canisters and barrels	119-0172, -0116, -2045, -2046, -2370, -2371, -0115	1	**119-2391**
Screw cap 1½" with pressure control valve	119-0172, -0116, -2380, -2045, -2046, -0121, -2180, -2181, -2182, -2160, -0111, -0115, -0123	1	**119-0129**
Self-closing tap 1½"	119-2180, -2181, -2182, -0122, -0157, -0156	1	**119-2401**
Rotable spout 1½"	All Rötzmeier safety canisters and barrels (10 and 25 l)	1	**119-0161**
Flame trap	All Rötzmeier safety canisters (5, 10 and 20 l) and safety barrels (10 and 25 l)	1	**119-0169**

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Safety barrels
Rötzmeier

These safety barrels are suitable for safe and comfortable handling and storage of larger amounts of flammable liquid.

- In-plant use of flammable liquids such as solvents
- Explosion-proof due to flame traps (removable) and pressure control valves
- Taps and metering devices are self-closing
- High quality and chemically resistant stainless steel (thickness 0,8 - 1,5 mm depending on capacity) with PTFE gaskets
- Models with self-closing tap are equipped with separate ventilation which maximises the flow rate
- PFA content level indicator incl. a scale for volumes 10, 25 and 50 litres

Description	Capacity (l)	Pk	Cat. No.
Safety barrel with screw cap 1½"	10	1	**119-0115**
Safety barrel with metering device 1½" and sep. ventilation	10	1	**119-2160**
Safety barrel with metering device 1½" with sep. ventilation and level indicator	10	1	**119-0111**
Safety barrel with self-closing tap ¾"	10	1	**119-0119**
Safety barrel with self-closing tap ¾" and level indicator	10	1	**119-0120**
Safety barrel with screw cap 1½"	25	1	**119-0123**
Safety barrel with self-closing tap ¾"	25	1	**119-0124**
Safety barrel with self-closing tap ¾" and level indicator	25	1	**119-0125**
Safety barrel with screw cap 2"	50	1	**119-0126**
Safety barrel with self-closing tap ¾"	50	1	**119-0127**
Safety barrel with self-closing tap ¾" and level indicator	50	1	**119-0128**
Safety barrel with screw cap 2"	100	1	**119-0108**
Safety barrel with self-closing tap ¾"	100	1	**119-0109**
Safety barrel with self-closing tap ¾" and level indicator	100	1	**119-0110**
Safety barrel with screw cap 2"	200	1	**119-0158**
Safety barrel with self-closing tap ¾"	200	1	**119-0164**
Safety barrel with self-closing tap ¾" and level indicator	200	1	**119-0160**
Safety barrel with 2" plug*	10	1	**119-0117**
Safety barrel with 2" plug and level indicator*	10	1	**119-0118**

Description	For	Capacity (l)	Pk	Cat. No.
Tanks				
Soaking tank		4	1	**119-0143**
Washing tank		4	1	**119-0154**
Accessories				
Self-closing metering device 1½" for safety canisters and barrels	119-0172, -0116, -2045, -2046, -2370, -2371, -0115		1	**119-2391**
Self-closing metering device 1½" for safety canisters and barrels with sep. ventilation	119-2160, -0111, -2380, -0122		1	**119-0163**
Screw cap 1½" with pressure control valve	119-0172, -0116, -2380, -2045, -2046, -0121, -2180, -2181, -2182, -2160, -0111, -0115, -0123		1	**119-0129**
Screw cap 1½" with pressure control valve and ventilation	119-0119, -0124, -0120, -0125		1	**119-0159**
Screw cap 2" TPI with pressure control valve	119-0126		1	**119-0136**
Screw cap 2" TPI with pressure control valve and ventilation	119-0127, -0128		1	**119-0137**
Self-closing tap ¾"	119-0119, -0124, -0127, -0120, -0125, -0128		1	**119-2400**
Rotable spout 1½"	All Rötzmeier safety canisters and barrels (10 and 25 l)		1	**119-0161**
Spout 2"	119-0117, -0118		1	**119-0162**
Adapter flame trap	119-0117, -0118		1	**119-0167**
Flame trap	All Rötzmeier safety canisters (5, 10 and 20 l) and safety barrels (10 and 25 l)		1	**119-0169**
Flame trap	119-0126, -0127, -0128		1	**119-0168**

* Collection barrel

Safety transport containers
Rötzmeier

Safety transport containers for UN approved transport of hazardous goods on public routes.

- High quality and chemically resistant stainless steel with PTFE gaskets
- All types of hazardous goods (UN X-approval)
- Help to avoid non returnable one-way transport packaging
- Screw cap without pressure control valve - available with pressure control valve as well
- Removable flame trap

Design approved according to ADR, RID, IMDG Code, ICAO-TI and GGVSEB.

Delivery information: Barrels 10 and 25 litres and canister 20 litres are equipped with separate ventilation screw to maximise the flow rate and allow for decanting in horizontal position, when used in conjunction with self closing tap (119-2401).

Description	Capacity (l)	Pk	Cat. No.
Can with screw cap 1¼"	1	1	**119-2350**
Can with screw cap 1¼"	2	1	**119-2351**
Can with screw cap 1¼"	5	1	**119-2352**
Canister with screw cap 1½"	5	1	**119-2370**
Canister with screw cap 1½"	10	1	**119-2371**
Canister with screw cap 1½" and sep. ventilation	20	1	**119-0122**
Barrel with screw cap 1½" and sep. ventilation	10	1	**119-0157**
Barrel with screw cap 1½" and sep. ventilation	25	1	**119-0156**

Description	For	Pk	Cat. No.
Accessories			
Self-closing metering device 1½" for safety canisters and barrels with sep. ventilation	119-2160, -0111, -2380, -0122	1	**119-0163**
Screw cap 1¼" without pressure control valve	119-2350, -2351, -2352	1	**119-0142**
Screw cap 1½" without pressure control valve	119-2370, -2371, -0122, -0157, -0156	1	**119-0135**
Self-closing tap 1½"	119-2180, -2181, -2182, -0122, -0157, -0156	1	**119-2401**
Flame trap	All Rötzmeier safety cans, moisteners and safety transportation cans	1	**119-0170**
Wood bearings (2)	119-0156	1	**119-0138**

Safety funnels

Stainless steel

Funnels allow for safe and comfortable filling of safety and other containers (e.g. plastic canisters).

- Safety funnels need to be screwed to the container - offer overfill protection, flame trap, grounding, earth connection and closure head
- Removable flame traps for easy cleaning
- Safety funnels with plastic cap: Safe and comfortable filling of plastic containers (e.g. for waste solvents)
- Safety funnels with buttress threads 2" (S56x4): Safe filling of combi-barrels
- Standard edition I: Ø 120 mm, height above thread 140 mm
- Flat edition II: Ø 180 mm, height above thread 70 mm
- Plug-in funnels with Ø 120 mm, without closure head

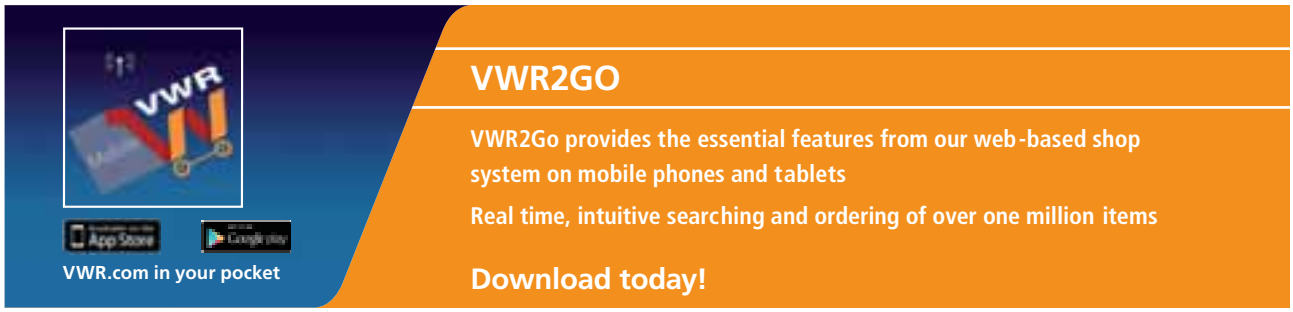
Description	Pk	Cat. No.
Safety funnel with plastic cap (PE), DIN 50 (I)	1	**119-0145**
Safety funnel with plastic cap (PE), DIN 50 (II)	1	**119-0146**
Safety funnel with plastic cap (PE), DIN 51 (I)	1	**119-0132**
Safety funnel with plastic cap (PE), DIN 51 (II)	1	**119-0147**
Safety funnel with plastic cap (PE), DIN 61 (I)	1	**119-0133**
Safety funnel with plastic cap (PE), DIN 61 (II)	1	**119-0148**
Safety funnel with plastic cap (PE), DIN 71 (I)	1	**119-0149**
Safety funnel with plastic cap (PE), DIN 71 (II)	1	**119-0150**
Safety funnel with thread 2" (I)	1	**119-0131**
Safety funnel with thread 2" (II)	1	**119-0141**
Safety funnel with buttress-thread 2" (S56×4) (I)	1	**119-0153**
Safety funnel with buttress thread 2" (S56×4) (II)	1	**119-0155**
Plug-in funnel for all safety cans	1	**119-2410**
Plug-in funnel for all safety canisters	1	**119-0134**
Plug-in funnel for all safety canisters, with overfill protection	1	**119-0151**
Plug-in funnel for all safety barrels	1	**119-0152**

Mercury collectors
Bel-Art Products

The mercury globules are absorbed by the foam pad. A mesh inside squeezes the mercury out of the foam, so it is immediately ready for use again.

- Deals safely and effectively with mercury spillages
- Safe storage in airtight container

Description	Pk	Cat. No.
Mercury collector	1	**121-0200**
Replacement pads	12	**121-0201**



Spillage absorption granules

The coarse granules are easy to use and when applied to liquid spillages will absorb up to 80% of their own weight. The granules are suitable for absorbing acids, alkalis, other aqueous solutions and organic liquids.

- Bulk density 50 g/100 ml
- Rapid absorption of low viscosity liquids
- Granular, size typically 1 to 3,15 mm (95% more than 1,0 mm), generates little dust

Safety note: Mercury is not absorbed.

Spillage granules, Algosol

Algosol is a unique natural product made from seaweed and is suitable for the neutralisation of acids, such as hydrochloric, sulphuric, nitric and hydrofluoric. It absorbs spills immediately without breaking up and can be used to extinguish fires.

- Biodegradable, non toxic, non flammable and dust-free
- Can be swept up easily
- Stable, chemically inert and non polluting

1 kg of Algosol neutralises 180 ml 95% sulphuric acid or 530 ml of 36% hydrochloric acid or 400 ml of 70% nitric acid or 260 ml of 40% hydrofluoric acid.

Description	Pk	Cat. No.
Spillage granules, Algosol	10 kg	**99910.414**

Spill kits, mobile, SPILL-X®

Developed to economically treat small spills, such as those that can occur in a laboratory environment. Provides easy access to the appropriate control agent for a particular type of chemical spill.

PP containers allow for both types of agent application namely pouring or shaking. Each bottle can treat a spillage up to 1,9 litres (1,4 to 1,9 m^2). Convert caustics and acids into non hazardous compounds that meet EPA specifications for non hazardous waste. Can be used effectively to deal with accidental spills or release of acids (SPILL X A®, also suitable for hydrofluoric acid HF), caustics (SPILL X C®), solvents (SPILL X S®) and formaldehyde (SPILL X FP®) at the workplace.

- Treats hazardous spills rather than just repackaging them
- Safe, easy to use, with the highest per volume absorption capacity
- Neutralises and solidifies acids and caustics for easy waste disposal (SPILL-X-A®, SPILL-X-C®)
- Absorbs solvents and raises the flash point above 60 °C, without producing toxic by-products (SPILL-X-S®)
- SPILL-X® case comes with portable, semi-portable or permanent mounting options

SPILL-X® kit case W×D×H: 470×145×550 mm (closed)

Ordering information: Each kit comprises of 6 bottles of individual agents, 1× pack of eye and hand protective accessories (1× safety goggles, 1× nitrile gloves, 2× clean up pans, 1× scraper, 6× waste bags, 1× treatment guide leaflet), a graphic instruction card, wall-mount screws and anchors. Everything is supplied in a plastic portable case. Please order refill bottles of SPILL-X® agents and extra packs of eye and hand protecting accessories separately.

Description	Pk	Cat. No.
Multipurpose SPILL-X®, 6 shakers	1	**121-0006**
Acid SPILL-X-A®, 6×1.13 kg bottles	1	**121-0007**
Formaldehyde SPILL-X-FP®, 6 shakers	1	**121-0008**
Accessories		
Eye and hand protection accessories kit	1 KIT	**121-0014**

* Multipurpose SPILL-X® kit contains 2× SPILL-X-A® acid, 2× SPILL-X-C® caustic and 2× SPILL-X-S® solvent agents.
** Formaldehyde SPILL-X® kit includes 3× SPILL-X-FP® formaldehyde and 3× SPILL-S® solvent agents.

Refill sets, SPILL-X®

These refill sets can be used with five types of SPILL-X® treatment kits. They are available in different formats.

- Each set contains 6 bottles

Delivery information: Multipurpose SPILL-X® set contains 2 acid, 2 caustic and 2 solvent agents whereas the formaldehyde SPILL-X-FP® refill set comprises bottles of 3 formaldehyde and 3 solvent agents.

Description	Pk	Cat. No.
Multipurpose refill, SPILL-X®	1 Set	**121-0009**
Solvent refill, SPILL-X®, 6 bottle set	1 Set	**121-0012**
Formaldehyde refill, SPILL-X-FP®, 6 bottle set	1 Set	**121-0013**
Acid refill, SPILL-X®, 6 bottle set	1 Set	**121-0010**
Caustic refill, SPILL-X®, 6 bottle set	1 Set	**121-0011**

Emergency intervention kit

Kit for absorption of organics, aqueous solutions, alkalis and acids.

- Includes personal protective equipment; gloves, masks and goggles
- Includes removal equipment; dust tray, brush and bags

The kit contains:
3× MERCK Chemizorb® for absorption of organics and aqueous solutions 1.02051.0500
1× MERCK Chemizorb® for absorption of alkalis (including a neutraliser and a pH indicator) 1.01596.1000
1× MERCK Chemizorb® for absorption of acids 1.01595.2000
1× Pair barrier gloves with liner size 9 (112-1010)
1× Pair barrier gloves with liner size 7 (112-0946)
2× Mask 4279 3M ABEK (111-0044)
2× Goggles 3M 2790A (111-0265)
1× Dust tray ergonomic (129-0174)
1× Brush in PBT sterilisable (129-0175)
1× Disposal bag 483×610 mm (129-0021)

Description	Pk	Cat. No.
Emergency intervention kit	1 SET	**129-0199**

Absorbent for acid spills, Chemizorb® H^+

Chemizorb® H^+ is a granulate mixture that consists of a mineral co-polymer absorbent, an alkaline neutraliser, and a pH indicator. The neutralisation process results in the release of CO_2. When the acid has been neutralised, the colour of the indicator changes from red to orange/yellow.

- Easy to use - just cover the spill with the amount necessary to neutralise and absorb
- pH indicator makes it possible to monitor the neutralisation process

About 100 g of Chemizorb® H^+ is required to to absorb and neutralise 100 ml of acid.

Merck products are not available from VWR in all countries. Please check with your local distributor.

Description	Pk	Cat. No.
Chemizorb® H^+	500 g	**1.02491.0500**
Chemizorb® H^+	2,5 kg	**1.02491.2500**

Absorbent, Chemizorb® Alkalis

Chemizorb® Alkalis is a powder mixture that consists of a mineral co-polymer as the absorbent, an acidic salt as the neutraliser, and a pH indicator. Upon contact with the alkalis the absorbent first turns blue in colour. After neutralisation is complete, the blue colour becomes paler.

- Easy to use
- pH indicator makes it possible to monitor the neutralisation process

About 100 to 120 g of Chemizorb® OH^- is required to absorb and neutralise 100 ml of alkalis.

Description	Pk	Cat. No.
Chemizorb® OH^-	1 kg	**1.01596.1000**

Merck products are not available from VWR in all countries. Please check with your local distributor.

Absorbent, Chemizorb® granules

Chemizorb® is a coarse grained material based on chemically inert porous mineral or synthetic copolymers (grain size >1 mm (95%), bulk density approx. 400 kg/m³). It is insoluble in water and in all other media that are liquid at room temperature. Both Chemizorb® granules and powder are suited for absorbing alkalis, acids and also heating bath liquids.

- Able to absorb up to 100% of its own weight
- Low viscosity liquids are absorbed instantaneously, highly viscous media (e.g. glycerine, oils) within a few minutes
- Good dosing is possible thanks to the coarse grained format
- Granule form is used in all those places where it is not suitable to use the powder form, for example in draughty rooms or outside

Description	Pk	Cat. No.
Absorbent for spilled liquids, Chemizorb® granules	1 kg	**1.01568.1000**
Absorbent for spilled liquids, Chemizorb® granules	5 kg	**1.01568.5000**
Absorbent for spilled liquids, Chemizorb® granules	20 kg	**1.01568.9021**

Merck products are not available from VWR in all countries. Please check with your local distributor.

Absorbent, Chemizorb® powder

For absorption of acids, alkalis or solvents. Thanks to its large surface area, the powder absorbs a very large amount of liquid. Low viscosity liquids are absorbed instantaneously, highly viscous media (e.g. glycerine, oils) within a few minutes. 1 kilogram absorbs: 2,5 to 4,5 litres of aqueous solutions, acids, alkalis; 3 to 4 litres of organic solvent, benzene etc.; approx. 7 litres of viscous oils.

- Grain size <0,1 mm (85%)
- Bulk density approx. 120 kg/m³

Description	Pk	Cat. No.
Absorbent, Chemizorb® powder	500 g	**1.02051.0500**
Absorbent, Chemizorb® powder	25 kg	**1.02051.9025**

Merck products are not available from VWR in all countries. Please check with your local distributor.

Absorbent, Chemizorb® Hydrofluoric Acid

Chemizorb® Hydrofluoric Acid (HF) is a powder mixture consisting of a synthetic copolymer as the absorbent, a calcium salt as a neutraliser and precipitant, and a pH indicator. The neutralisation process results in the release of CO_2. When the hydrofluoric acid has been neutralised, the colour of the indicator changes from red to orange/yellow.

- Easy to use
- pH indicator makes it possible to monitor the neutralisation process

About 150 g of Chemizorb® HF is required to absorb and neutralise 100 ml of hydrofluoric acid.

Description	Pk	Cat. No.
Chemizorb® HF	1 kg	**1.01591.1000**

Merck products are not available from VWR in all countries. Please check with your local distributor.

Absorbent for mercury, Chemizorb® Hg

Chemizorb® Hg is an all-inclusive set of reagents and auxiliaries for the safe and complete removal of drops of mercury and of traces of elemental mercury.

- Sufficient for the safe and simple decontamination of an area of roughly one square metre
- Chemizorb Hg does not affect skin, gloves should be worn to avoid contact with mercury
- Mercury containing waste material must be disposed of as special waste in accordance with the official regulations

Delivery information: Pack contains 500 g reagent 1 and 100 ml reagent 2, plus accessories in plastic case.

Description	Pk	Cat. No.
Reagent refill pack	1 Set	**1.01569.0001**
Absorbent for mercury, Chemizorb® Hg	1 Set	**1.12576.0001**

Merck products are not available from VWR in all countries. Please check with your local distributor.

Spill response kit for chemicals

Spill kit suitable for dangerous liquids. The absorbents can be used for most chemicals.

- Total absorbent capacity up to 10 litres, depending on the chemical being absorbed
- Also suitable for coping with oils and solvents

Delivery information: Kit contains 9 absorbent mats (480×510 mm), capacity 0,9 litre each; 1 absorbent sock (1,2 m × 75 mm), capacity 3,75 litre; 1 pair 'Silver Shield' chemical gloves; and 2 plastic disposal bags.

Description	Absorbency	Pk	Cat. No.
Spill response kit, laboratory chemicals	<10 litres/kit	1 KIT	**121-1050**

Biohazard spill kit

The biohazard spill kit contains everything needed to clean up spills of blood or other biohazardous fluid quickly and safely. Each kit contains:

- Haz-Tab granules, which are formulated using sodium dichloroisocyanurate, a powerful chlorinating agent effective against bacteria, fungi and viruses; poured onto the spill they absorb and disinfect simultaneously
- A scoop and scraper to transfer the spill, including broken glass, to the yellow incineration bag for disposal
- Tablets to enable preparation of a 10 000 ppm solution of chlorinating agent, with which splashes can be wiped up

Delivery information: Kit contains: 2 tubs Haz-Tab granules, 1 Haz-Tab diluter, 1 tub Haz-Tab tablets, 100 disposable gloves, 20 scoops and scrapers, 20 paper towels, 25 disposal bags, 3 aprons and full instructions.

Description	Pk	Cat. No.
Biohazard spill kit	1	**121-0350**

Disposable spill kit
Brady Corporation

Designed for small spills of chemicals and hazardous liquids up to 1,7 litres. The highly visible dispenser box can easily be be wall or shelf mounted.

- Disposable brush to sweep up any broken glass or debris
- Protective gloves have roughened finger tips, increased tear resistance and good chemical resistance
- Autoclavable disposal bag

Delivery information: Kit contains 2 absorbent pads (410×510 mm), 1 pair of disposable chemical protective gloves (powder free), disposal bag, 1 disposable brush, and multilingual instruction guide.

Description	Pk	Cat. No.
Disposable spill kit	4	**121-0051**

Small wall-mounted spill kit, PIG® HAZ MAT
New Pig

Wall-mounted spill kits for workplace spills.

- See-through front panel to check inventory levels quickly
- Write-on label for emergency phone numbers inside door
- Welded-steel construction ensures corners won't bow or sag when fully stocked

W×D×H: 350×320×760 mm

Ordering information: Kit / refill kit both include: 75 Mat Pads, 10 pillows, 50 wipes, 5 disposal bags and ties, 1 label for emergency phone number.

Description	Absorbency	W×D×H (mm)	Pk	Cat. No.
Small wall-mounted spill kit	37 litres/kit	350×320×760	1	**121-0513**
Refill kit	37 litres/kit	-	1	**121-0514**

Hazardous spill kits
3M

121-1046

121-1007

These absorption kits can be deployed wherever hazardous liquids are in use and can be used to contain and clean up a spill without delay.

P110: For smaller spills or final clear-up of larger ones, sheets of 280×330 mm, absorption of 0,25 litre/sheet.

P300: Pillows of 180×380 mm, absorption of 2 litre/pillow.

P200: Minibooms, 75×1200 mm (Ø×l), absorption of 3,75 litre/miniboom.

P130: Roll for large areas, can be cut to size, 33×3000 cm, absorption 50 litre/roll.

P190: Universal roll, 48×3300 cm, absorption 72 litre/roll.

Kit LAB SK 5: Ten sheets P110, 1 pillow P300, 1 disposable bag with tie, 1 instruction guide. Total absorbency approximately 5 litre. (W×D×H: 280×405×70 mm).

Kit SK 26: A 55 litre HDPE container with lid containing, 10 sheets P110, 5 minibooms, 5 pillows P300, 2 disposable bags and ties. Total absorbency approximately 26 litre. (H×Ø: 625×396 mm).

P-F2001: Mini-booms, pillows, sheets or rolls of 12,5×1520 cm, absorption 119 litre/pack.

Description	Absorbency	Pk	Cat. No.
P110 sheets	0,25 litre/sheet	50	**121-1046**
P300 pillows	2 litres/pillow	16	**121-1047**
P200 minibooms	3,75 litres/miniboom	12	**121-1005**
P130 rolls	50 litres/roll	2 Roll	**121-1003**
P190 rolls	72 litres/roll	2 Roll	**121-1010**
Laboratory lab-kit SK5	5 litres/kit	1 KIT	**121-1000**
Laboratory lab-kit SK26	26 litres/kit	1 KIT	**121-1007**
PF2001 chemical sorbent, multi-format	119 litres/kit	3 Roll	**121-1048**

Chemical spill response kit, Ecospill

Chemical spill response kits are an essential piece of equipment for all types and sizes of business to successfully clean up in the event of a chemical spill.

- Meltblown polypropylene absorbents, perforated for ease of use
- Socks and pads/pillows for containment and absorption of spills
- Provided with disposal bags and ties to help thorough and rapid clean-up

Description	Absorbency	Pk	Cat. No.
Chemical spill response kit in a strong, waterproof vinyl yellow bag, contents: 30 pads, 3 pillows 3 socks (1,2 m), 5 disposal bags and ties	50 litres/kit	1	**121-0131**
Chemical spill response kit in a strong, waterproof clear vinyl bag, contents: 20 pads, 2 socks (1,2 m), 2 disposal bags and ties	30 litres/kit	1	**121-0132**

Absorbent pads, PIG® HAZ-MAT pads and rolls

New Pig

PP, pink

A choice of lightweight pads for small spills or heavyweight pads and rolls for medium spills. The chemical resistant polypropylene mat does not fall apart, even when saturated with high concentrations of acids or alkalis.

- Completely safe absorption of acids, alkalis, oils, liquids and solvents
- Texture enables extremely fast liquid absorption
- Pre-perforated rolls and pads - just tear off what you need
- Rip-&-Fit® rolls have multiple perforations to give greater flexibility of floor coverage.

Description	Absorbency	L×W (mm)	Packed	Pk	Cat. No.
PIG® HAZ-MAT pads, heavyweight	41,8 litres/bag	510×380	50 pads/bag	50	**121-0529**
PIG® HAZ-MAT pads, heavyweight	83,6 litres/bag	510×380	100 pads/bag	100	**121-0527**
PIG® HAZ-MAT pads, lightweight	83,6 litres/bag	510×380	200 pads/bag	200	**121-0031**
PIG® HAZ-MAT absorbent roll, heavyweight	152,4 litres/roll	46 m ×760	1 roll/bag	1	**121-0528**
PIG® HAZ-MAT pads, heavyweight	37,1 litres/box	330×250	100 pads/dispenser box	100	**121-0531**
PIG® HAZ-MAT pads, heavyweight in Bench Box® dispenser	37,1 litres/box	330×250	100 pads/dispenser box, (4 boxes per case)	4	**121-0099**
Rip-&-Fit® HAZ-MAT roll, heavyweight	29,7 litres/box	18 m×380	1 roll/dispenser box	1	**121-0530**

Absorbent pillows, PIG® HAZ-MAT pillows

New Pig

PP

A pink absorbent pillow for emergency spill response. Speeds response and saves critical time by eliminating guesswork when you have an unidentified spill.

- Pillow has large surface area, high capacity and fast wicking filler to quickly soak up liquids
- Polypropylene skin is chemical and tear resistant; reduces dust and holds in liquid, even when fully saturated
- Specially treated to quickly absorb more chemicals - including higher concentration corrosive liquids such as 98% sulphuric acid and 30% sodium hydroxide
- Can be incinerated after use to reduce waste

Description	Absorbency	W×D×H (mm)	Packed	Pk	Cat. No.
PIG® HAZ-MAT absorbent pillows	8,9 litres/box	200×200×30	10/box	10	**121-0541**
PIG® HAZ-MAT absorbent pillows	17,8 litres/box	200×200×30	20/box	20	**121-0540**
PIG® HAZ-MAT absorbent pillows	22,5 litres/box	200×430×50	10/box	10	**121-0542**
PIG® HAZ-MAT absorbent pillows	38 litres/box	410×430×50	10/box	10	**121-0504**

Absorbent socks, PIG® HAZ-MAT socks

New Pig

PP

Universal tubular absorbent sock, featuring polypropylene pulp with a polypropylene outer skin, capable of containing and absorbing larger spills of solvent, acid or caustic liquids. Can also be used to block large storm sewers or drains, as a line of defence in front of a drum storage area or around acid vats and tank areas.

- Designed for containing spills in emergency clean up
- Wrap around machinery to absorb potentially hazardous liquids that may leak out
- Specially treated to quickly absorb more chemicals - including higher concentrations of corrosive liquids such as 98% sulphuric acid and 30% sodium hydroxide
- Can be incinerated to reduce waste

Description	Absorbency	Ø×L (mm)	Pk	Cat. No.
PIG® HAZ-MAT absorbent socks	34 litres/box	80×1170	12	**121-0501**
PIG® HAZ-MAT absorbent socks	45 litres/box	80×3000	6	**121-0538**

Maintenance sorbents

3M

Inert, synthetic fibres principally of PP and polyester

They are light grey when dry, and darken when wet as an indication of saturation level. Used for the control of accidental and routine leaks, drips and spills of oils, lubricants and other non-aggressive liquids. These are perfect for cleaning up non-aggressive fluids as well as being an effective maintenance management tool. Available in a range of different sorbent formats.

Multiformat combines four formats in one product and can be used as booms, pillows, sheets or rolls.

Minibooms are designed for placing around the base of equipment to contain and control leaks and spills.

Minipillows are high capacity for use at the source of a leak. They are tear resistant and can be left in place for long periods.

Description	Absorbency	L×W (mm)	Packed	Pk	Cat. No.
Multiformat	37 litres/kit	15,2 m × 120	Box (3) of 15,2 m roll	3	**121-1001**
Minibooms	45 litres/box	1,2 m × Ø 76	Box of 12 minibooms	12	**121-0016**
Minipillows	32 litres/box	380×180	Box of 16 minipillows	4	**121-0133**

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Sharps containers, Code YELLOW, SHARPAK™

All SHARPAK™ Code YELLOW sharps containers feature yellow coloured closures and are recommended for the segregation, collection and disposal of partially discharged sharps waste which are NOT contaminated with cytotoxic or cytostatic medicines. Code YELLOW SHARPAK™ sharps containers MUST only be disposed of by incineration. Tough and durable. Cost effective.

All SHARPAK™ Code YELLOW sharps containers are approved to BS7320:1990 and tested and certified in accordance with the provisions of the United Nations recommendations on the Transportation of Dangerous Goods, Chapter 9, UN3291 Clinical Waste, Unspecified.

Please note: For disposal of sharps contaminated with cytotoxic or cytostatic medicines please refer to sharps containers, code PURPLE, SHARPAK™.

- Yellow colour coded closures to meet the recommendations on waste segregation as detailed in the Department of Health's technical memorandum HTM-07-01
- Secure closure with locking facility
- Distinctive colouring and clear labelling
- Sequential numbering for traceability
- Supplied assembled

Capacity (l)	W×D×H (mm)	Type	Pk	Cat. No.
3,5	177×206×195	Sharpak™ 35 PLUS, yellow lid	1	**129-1060**
6	220×234×229	Sharpak™ 60 PLUS, yellow lid	1	**129-1058**
12	258×268×325	Sharpak™ 120 PLUS, yellow lid	1	**129-1052**
22	315×327×383	Sharpak™ 220 PLUS, yellow lid	1	**129-1055**

Sharps containers, Code ORANGE, SHARPAK™

All SHARPAK™ Code ORANGE sharps containers feature orange coloured closures and are recommended for the segregation, collection and disposal of used and fully discharged sharps waste which is NOT contaminated with cytotoxic or cytostatic medicines or sharps NOT contaminated with medicinal products. Code ORANGE SHARPAK™ sharps containers can be disposed of by incineration or other approved method. Tough and durable. Cost effective.

All SHARPAK™ Code ORANGE sharps containers are approved to BS7320:1990 and tested and certified in accordance with the provisions of the United Nations recommendations on the Transportation of Dangerous Goods, Chapter 9, UN3291 Clinical Waste, Unspecified.

Please note: For disposal of sharps contaminated with cytotoxic or cytostatic medicines please refer to SHARPAK™, Code PURPLE containers.

- Orange colour coded closures to meet the recommendations on waste segregation as detailed in the Department of Health's technical memorandum HTM-07-01
- Secure closure with locking facility
- Distinctive colouring and clear labelling
- Sequential numbering for traceability
- Supplied assembled

Capacity (l)	W×D×H (mm)	Type	Pk	Cat. No.
3,5	177×206×195	Sharpak 35 PLUS, orange lid	1	**129-1059**
6	220×234×229	Sharpak 60 PLUS, orange lid	1	**129-1057**
12	258×268×325	Sharpak 120 PLUS, orange lid	1	**129-1051**
22	315×327×383	Sharpak 220 PLUS, orange lid	1	**129-1054**

Sharps containers, Code PURPLE, SHARPAK™

All Code PURPLE SHARPAK™ HYDRI sharps containers feature PURPLE coloured closures and labels and are recommended for the segregation, collection and disposal of sharps waste which is contaminated with cytotoxic or cytostatic medicines. Code PURPLE SHARPAK™ HYDRI sharps containers must only be disposed of by incineration.

All Code PURPLE SHARPAK™ HYDRI sharps containers are approved to BS7320:1990 and tested and certified in accordance with the provisions of the United Nations recommendations on the Transportation of Dangerous Goods, Chapter 9, UN3291 Clinical Waste, Unspecified, NOS.

The majority of drug manufacturers do not mark their products with the appropriate packaging group classifications, thereby leaving medical staff to decide how to safely dispose of their contaminated sharps. What's more, when different drug types are used in the clinical environment, it is a certainty that a cocktail of drugs will result, making a correct assessment of their classification even more difficult. The Code PURPLE range of SHARPAK™ HYDRI containers are each supplied with a special HYDRI mat which safely absorbs any free fluid which accumulates in the bottom of the container thereby preventing any spillage during use, transportation and disposal.

- Purple colour coded closures to meet the recommendations on waste segregation as detailed in the Department of Health's technical memorandum HTM-07-01
- Secure closure with locking facility
- Distinctive colouring and clear labelling
- Sequential numbering for traceability
- Tough and durable, cost effective

Capacity (l)	W×D×H (mm)	Type	Pk	Cat. No.
6	220×234×229	SHARPAK™ HYDRI 60 PLUS, purple lid	1	**129-1056**
12	258×268×325	SHARPAK™ HYDRI 120 PLUS, purple lid	1	**129-1050**
22	315×327×383	SHARPAK™ HYDRI 220 PLUS, purple lid	1	**129-1053**

Disposal bin, SHARPSGUARD®, orange
DANIELS

PP

SHARPSGUARD® orange is a comprehensive range of containers for the disposal of sharps, excluding those contaminated with medicinal products and their residues. These general purpose sharps containers provide maximum capacity in minimum working space. A robust side handle prevents the container from rolling for safe transport and ease of disposal.

For the SHARPSGUARD® orange 22 XA bin (129-0721) the 'XA' denotes extra access. This container is designed for the disposal of larger instruments. It has a hands-free hinged door, which can stay open at 45 and 90 degrees, providing a large aperture for the disposal of large instruments with minimum handling.

- Outstanding protection against penetrating sharps and leaking fluids
- The opaque doors clearly show when the door is in the temporary or fully closed position
- Disposal should be by incineration or other authorised process

The SHARPSGUARD® yellow 35L theatre bin (129-1046) is designed to be used upright to ease the disposal of
long instruments such as staple guns as well as chest drains. It is ideal for theatres, acute medical areas and X-ray departments but is not recommended for high public access areas.

Description	Capacity (l)	W×D×H (mm)	Ø×H (mm)	Colour	Pk	Cat. No.
SHARPSGUARD® orange 1	1	205×68×120	-	Orange/Yellow	30	**129-1045**
SHARPSGUARD® orange 2.5	2,5	-	176×163	Orange/Yellow	48	**129-0723**
SHARPSGUARD® orange 3.75	3,75	-	176×218	Orange/Yellow	48	**129-1042**
SHARPSGURAD® orange 5	5	-	176×285	Orange/Yellow	48	**129-0450**
SHARPSGUARD® orange 7	7	-	248×205	Orange/Yellow	40	**129-0724**
SHARPSGUARD® orange 11.5	11,5	-	280×250	Orange/Yellow	20	**129-0726**
SHARPSGUARD® orange 22	22	-	330×345	Orange/Yellow	1	**129-0725**
SHARPSGUARD® orange 22 xa	22	-	350×345	Orange/Yellow	7	**129-0721**
SHARPSGUARD® orange theatre	35	205×255×680	-	Orange/Yellow	4	**129-1046**

The SHARPSGUARD® orange range is manufactured to the most stringent quality and safety standards: BS EN ISO 23907, UN3291, AFNOR NFX 30-500 and ISO 9002.

Disposal bin, SHARPSGUARD®, yellow
DANIELS

PP

SHARPSGUARD® yellow is a similar range of containers to SHARPSGUARD® orange, with the added advantage that they can also be used to dispose of sharps contaminated with medicinal products and their residues other than cytotoxic and/or cytostatic medicines. To ensure the containers are safe and simple to use the opaque doors clearly show when the door is in the temporary or fully closed position. The SHARPSGUARD® yellow range is designed to be incinerated or disposed of by other authorised process.

For the SHARPSGUARD® yellow 22 XA bin (129-0722) the 'XA' denotes extra access. This container is designed for the disposal of larger instruments. It has a hands-free hinged door, which can stay open at 45 and 90 degrees, providing a large aperture for the disposal of large instruments with minimum handling.

The SHARPSGUARD® yellow theatre bin (129-1047) is designed to be used upright to ease the disposal of long instruments such as staple guns as well as chest drains. It is ideal for theatres, acute medical areas and X-ray departments but is not recommended for high public access areas.

They are manufactured to the most stringent quality and safety standards: BS EN ISO 23907, UN3291, AFNOR NFX 30-500 and ISO 9002.

Description	Colour	Capacity (l)	W×D×H (mm)	Ø×H (mm)	Pk	Cat. No.
SHARPSGUARD® yellow 2.5	Yellow/Yellow	2,5	-	176×163	48	**129-1040**
SHARPSGUARD® yellow 5	Yellow/Yellow	5	-	176×285	48	**129-1039**
SHARPSGUARD® yellow 7	Yellow/Yellow	7	-	248×205	40	**129-1041**
SHARPSGUARD® yellow 11.5	Yellow/Yellow	11,5	-	280×250	20	**129-1044**
SHARPSGUARD® yellow 22	Yellow/Yellow	22	-	330×345	10	**129-1043**
SHARPSGUARD® yellow 22 xa	Yellow/Yellow	22	-	350×345	7	**129-0722**
SHARPSGUARD® yellow theatre	Yellow/Yellow	35	205×255×680	-	4	**129-1047**

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Sharp disposal containers for infectious waste, Sharpsafe®
MSH

PP, yellow

Disposable plastic sharps container.

Orange lids – Sharps for incineration or alternative treatment. Marked "Fully Discharged Sharps" the inscription and 'tick' indicate this coloured lid container is for use with sharps not containing prescription only medicines or 'POM's.

Yellow lids – Infectious sharps for incineration only. Marked with "Medicinal Sharps", the inscription and 'tick' indicates this coloured lid container will be for general use, including sharps containing medicinal residue.

Purple lids – Marked with " Cyto Sharps", the inscription and 'tick' indicate this coloured lid container will be for use with sharps contaminated with cytotoxic and / or cytostatic medicines.

TRBA 250, NF X30-500, NF 302 and UN certified. ISO Norm 23907

Description	Capacity (l)	Pk	Cat. No.
Orange lids			
Sharpsafe®, British Standard label	4	50	**119-0181**
Sharpsafe®, British Standard label	7	50	**119-0183**
Sharpsafe®, British Standard label	9	20	**119-0187**
Sharpsafe®, British Standard label	24	10	**119-0189**
Sharpsafe®, British Standard label	30	10	**119-0193**
Yellow lids			
Sharpsafe®, British Standard label	1	100	**119-0192**
Sharpsafe®, British Standard label	2	50	**119-0180**
Sharpsafe®, British Standard label	3	1	**119-0191**
Sharpsafe®, British Standard label	4	50	**119-0078**
Sharpsafe®, British Standard label	7	50	**119-0075**
Sharpsafe®, British Standard label	9	20	**119-0179**
Sharpsafe®, British Standard label	13	20	**119-0186**
Sharpsafe®, British Standard label	24	10	**119-0190**
Sharpsafe®, British Standard label	30	10	**119-0083**
Purple lids			
Sharpsafe®, British Standard label	4	50	**119-0182**
Sharpsafe®, British Standard label	7	50	**119-0184**
Sharpsafe®, British Standard label	9	20	**119-0188**
Sharpsafe®, British Standard label	13	20	**119-0185**

Description	For	Pk	Cat. No.
Accessories for disposal boxes Sharpsafe™			
Wall bracket	4 or 7 l Sharpsafe™	1	**119-0307**
Trolley bracket	4 or 7 l Sharpsafe™	1	**129-1805**

Note: Products with coloured lids are only suitable for the UK market.

Waste bins, Wiva

PP

These large containers with a solid lid conform to BS7320 and are suitable for clinical waste.

Colour: Yellow

Capacity (l)	W×D×H (mm)	Pk	Cat. No.
30	335×405×315	1	**129-0720**
60	335×405×645	1	**129-0719**

Sample bags, Minigrip®

LDPE

These waste disposal bags are versatile and are available in a range of sizes.

- Pressure zip closure
- Can be used for samples, tubes, small parts; (not suitable for liquids)
- Durable, secure Minigrip closure

Description	L×W (mm)	Pk	Cat. No.
Bags without labelling			
Minigrip without writing area	40×60	1.000	**129-2000**
Minigrip without writing area	60×80	1.000	**129-2001**
Minigrip without writing area	80×120	1.000	**129-2002**
Minigrip without writing area	100×150	1.000	**129-2003**
Minigrip without writing area	120×180	1.000	**129-2004**
Minigrip without writing area	160×220	1.000	**129-2005**
Minigrip without writing area	180×350	1.000	**129-2006**
Minigrip with vents and without writing area	230×320	1.000	**129-2007**
Bags with labelling			
Minigrip with writing area	40×60	1.000	**129-2016**
Minigrip with writing area	60×80	1.000	**129-2009**
Minigrip with writing area	80×120	1.000	**129-2010**
Minigrip with writing area	120×180	1.000	**129-2011**
Minigrip with writing area	160×220	1.000	**129-2012**

Waste bins
MSH

Polypropylene

These SEPTIFAS rectangular containers with two side handles and one handle on the lid are suitable for the collection and storage of sharp pointed or cutting objects, and infectious medical waste.

- Perforation resistant
- Hot melt adhesive joint forms an impenetrable seal
- Base moulded to the shape of the lid for extra stability and easy stacking

UN approved and with ADR approval, conforms to the norm NF X 30 - 505

Description	Capacity (l)	W×D×H (mm)	Pk	Cat. No.
Admissible weight 15 kg	30	400×300×350	1	**119-0403**
Admissible weight 25 kg	50	400×300×500	1	**119-0408**
Admissible weight 25 kg	60	400×305×575	1	**129-1800**

Safety cans, Nalgene®
Thermo Scientific

HDPE

A system for temporary storage of solvent, chemical, and biological waste which consists of a chemical and break resistant container and removable funnel with lid, closure/funnel adapter, and screen insert.

- 10 l made from fluorinated HDPE, 4 l HDPE
- PP funnel includes cover with easy snap safety latch to minimise accidental spills and volatile emissions
- Built in vent plug releases pressure during pouring and prevents emissions during use
- Closure/adapter can also be connected to an external syringe filter
- Removable PP screen insert/filter fits at bottom of funnel to trap large particles

Capacity (l)	Funnel O-Ø (mm)	Stem length (mm)	Pk	Cat. No.
Safety waste system (container and funnel)				
4	140	56	1	**119-3004**
10	254	56	1	**119-3010**

Capacity	Funnel O-Ø (mm)	Stem length (mm)	Thread	Pk	Cat. No.
Safety waste funnels, Nalgene®					
-	140	56	38-430	1	**119-3034**
-	254	56	83B	1	**119-3040**

Biohazard waste bins, Nalgene®
Thermo Scientific

PP

Autoclavable waste containers for secondary containment of biohazardous waste materials such as needles. Holds standard size autoclavable bags. Will not rust, dent or puncture. Red universal biohazard symbol.

- Port opening in cover for convenient one handed disposal of materials. Less exposure to infectious waste
- One step sterilisation: No need to remove autoclavable bag
- Leakproof side and bottom construction

Comply with US OSHA Standard 29 CFR Part 1910.1030 for use as protection against bloodborne pathogens.

Description	Colour	Capacity (l)	Ø×H (mm)	Pk	Cat. No.
Biohazard waste bin	White/Red	57	340×740	1	**113-2802**

Biohazard incinerator cartons
Bel-Art Products

Corrugated cardboard

Carton with integral biohazard bag in HDPE.

- Snug fitting lid has flap through which waste is inserted
- When carton is filled, internal safety cap is pulled into place and the entire unit is ready for incineration

Delivery information: Delivered unassembled. Assembly takes a few seconds.

Description	W×D×H (mm)	Pk	Cat. No.
Floor	305×305×685	6	**119-0200**
Bench	196×196×254	6	**119-0201**

VWR COLLECTION

SELECTED FOR YOU

Boxes for broken glass

Corrugated cardboard with PE pouch 50 µm thick

Ideal for collecting, transporting and removing broken glass from the laboratory. Consists of a sturdy box made of strong corrugated cardboard and a PE insertion pouch which prevents any possible escape of fluids adhering to the broken glass.

- Folded flat for space saving storage
- A flap is built into the lid for easy filling
- The internal safety lid is closed for the removal of the container

Delivery information: Delivered unassembled. Assembly takes a few seconds.

Description	W×D×H (mm)	Pk	Cat. No.
Floor*	305×305×685	6	**119-0036**
Bench**	203×203×254	6	**119-0037**

* Maximum weight: 18 kg
** Maximum weight: 5,5 kg

Jars, waste disposal

PET, transparent with red PP lid

Dispo jars, often referred to as sweet jars. Ideal for collecting and disposing of waste, such as loops, cotton wool,wipes and other small hazardous waste in every day microbiology or pathology procedures. Also suitable for a wide range of other applications.

- Small, square jars with a fold-away carrying handle, large circular jars without a carrying handle
- Food grade quality
- Available with or without 'Biohazard' label
- High clarity polyethylene is ideal to Autoclave, causing the container to collapse around the waste material and ultimately minimising the space taken for final safe disposal.

Capacity (l)	Type	Height (mm)	Width (mm)	Pk	Cat. No.
2,5	Small, with 'Biohazard' label	215	120	30	**129-0591**
2,5	Small, without label	215	120	30	**129-0590**
4	Large, with 'Biohazard' label	260	140	16	**129-0593**
4	Large, without label	260	140	16	**129-0592**

Waste bins, Nalgene®
Thermo Scientific

PP

These containers are suitable for holding and sterilising refuse, clothing, etc.

- Heavy duty
- Cover and container moulded handles
- Autoclavable
- Friction fit closure fits securely

Comply with US OSHA Standard 29 CFR Part 1910.1030 for use as protection against bloodborne pathogens.

Colour	Capacity (l)	Ø×H (mm)	Pk	Cat. No.
Clear	23	279×457	1	**129-3600**
Clear	45	356×584	1	**129-3601**

VWR COLLECTION

SELECTED FOR YOU

Disposal bags

With 'Biohazard' printing

Without 'Biohazard' printing

PP, 40 µm thick, clear, with or without 'Biohazard' printing

For safe disposal of laboratory waste such as pipette tips, disposable Petri dishes, sample tubes, etc.

- Heat resistant up to 145 °C
- Autoclavable

Description	Capacity (l)	L×W (mm)	Pk	Cat. No.
Without 'Biohazard' printing				
Autoclavable bags, clear	2	200×300	500	**129-0578**
Autoclavable bags, clear	3	400×250	500	**129-0579**
Autoclavable bags, clear	12	660×305	500	**129-0580**
Autoclavable bags, clear	14	610×420	500	**129-0582**
Autoclavable bags, clear	16	780×400	500	**129-0581**
Autoclavable bags, clear	25	770×550	500	**129-0583**
Autoclavable bags, clear	32	780×600	500	**129-0584**
Autoclavable bags, clear	40	1100×700	350	**129-0585**
Autoclavable bags, clear	60	1100×900	100	**129-0586**
With 'Biohazard' printing				
Autoclavable bags, clear, with 'Biohazard' printing	12	660×305	200	**129-0587**
Autoclavable bags, clear, with 'Biohazard' printing	14	610×420	200	**129-0588**
Autoclavable bags, clear, with 'Biohazard' printing	32	780×600	200	**129-0589**

Bags, non hazardous waste

PP, 50 µm thick, transparent, with labelling area

Sturdy bags, ideal for disposing of non hazardous waste that must first be autoclaved.

- Autoclavable up to 121 °C
- Highly resistant to tears and impact
- Specially welded seams reduce the risk of leakages

The bags meet the requirements of the 165 g puncture inspection standard as described in ASTM D1709-98.

Capacity (l)	Material	L×W (mm)	Pk	Cat. No.
11	PP	483×356	200	**129-0020**
27	PP	610×483	200	**129-0021**
80	PP	889×635	200	**129-0022**
210	PP	1143×914	100	**129-0023**

Autoclavable bags

PP, 37,5 µm thick, transparent

Sturdy, temperature resistant bags, ideal for disposing of hazardous waste that must first be autoclaved. Can also be used for autoclaving other products. Supplied complete with sealing wires.

- Autoclavable up to 135 °C
- Highly resistant to tears and impact

Capacity (l)	Material	L×W (mm)	Pk	Cat. No.
12	PP	610×305	1.000	**129-0018**
75	PP	914×610	500	**129-0019**

Waste disposal bags, Labsak

PP

Laminated polypropylene bag for general purpose laboratory and workshop use. Ideal for disposal purposes.

- Puncture and tear resistant
- Long term resistance to heat and UV and stabilised for weathering

Description	Material	L×W (mm)	Pk	Cat. No.
Bags, Labsak	PP	495×910	25	**129-1900**

Bags for clinical waste, Cliniclave

Tough PP film, thickness: 50 µm, clear with blue lettering

- Permeable to ethylene oxide and autoclavable at 134 °C for 3,5 minutes at 32 psi to 2,2 bar
- Side-welded for extra base strength

Description	Material	L×W (mm)	Pk	Cat. No.
Clear bags Cliniclave, with blue lettering	PP	610×762	100	**129-0415**
Clear bags Cliniclave, with blue lettering	PP	420×762	100	**129-0416**

Autoclavable bags, transparent, Clavies®
Bel-Art Products

PP, 50 µm thick, transparent

- For maximum protection and convenience when disposing of biohazardous waste
- Autoclavable at 121 °C

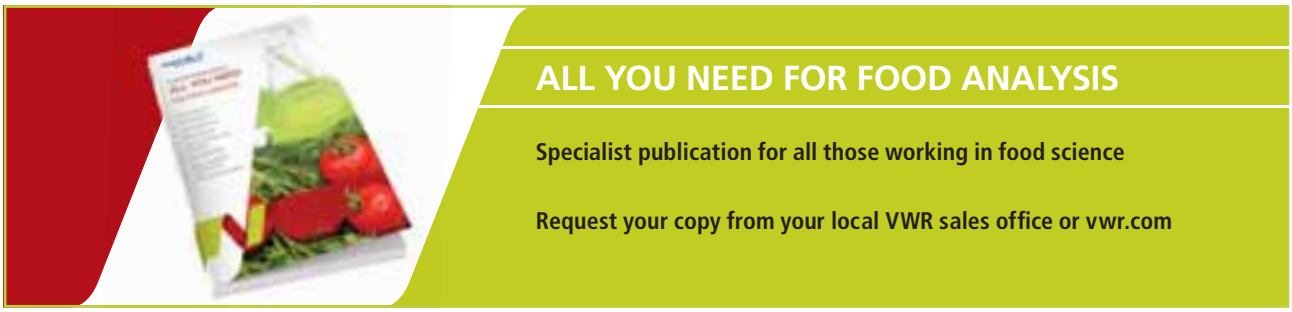
Material	L×W (mm)	Pk	Cat. No.
PP	250×200	100	**129-1016**
PP	300×200	100	**129-1017**
PP	380×200	100	**129-1018**
PP	610×300	100	**129-1019**
PP	760×610	100	**129-1020**
PP	910×610	100	**129-1021**

Bags, transparent, Polybags

PE, transparent

These bags are available in two thicknesses and a large number of sizes.

Description	L×W (mm)	Pk	Cat. No.
Lightweight, 30 µm (120 gauge)	102×152	1.000	**129-3802**
Lightweight, 30 µm (120 gauge)	127×202	100	**129-3803**
Lightweight, 30 µm (120 gauge)	203×305	100	**129-3805**
Lightweight, 30 µm (120 gauge)	254×381	100	**129-3806**
Heavyweight, 125 µm (500 gauge)	305×380	500	**129-3801**
Heavyweight, 125 µm (500 gauge)	203×305	100	**129-3808**
Heavyweight, 125 µm (500 gauge)	152×279	1.000	**129-1048**
Heavyweight, 125 µm (500 gauge)	254×381	500	**129-1049**



Bags, biohazard

PP, 50 µm thick, with 'Biohazard' label

Sturdy bags, ideal for disposing of biologically hazardous waste that must first be autoclaved. With wire closures that allow expansion of the bag and ventilation when cooling. Highly resistant to tears and puncture. Available as transparent bags without temperature indicator or orange with temperature indicator.

- Autoclavable up to 135 °C
- The useful temperature indicator text is white before autoclaving, then black. The text 'Contents Have Been Autoclaved' indicates successful autoclaving
- Highly visible 'Biohazard' label with the corresponding warning sign

The bags meet the requirements of the 165 g puncture inspection standard as described in ASTM D 709-98.

Description	Capacity (l)	Material	LxW (mm)	Pk	Cat. No.
Orange with temperature indicator	11	PP	483×356	200	**129-0024**
Orange with temperature indicator	27	PP	610×483	200	**129-0025**
Orange with temperature indicator	80	PP	889×635	200	**129-0026**
Orange with temperature indicator	210	PP	1143×914	100	**129-0027**
Clear	12	PP	610×305	200	**129-0028**
Clear	75	PP	914x610	200	**129-0029**

Bags, biohazard

PP, 50 µm thick, red

These sturdy bags are ideal for disposing of biologically hazardous waste that must first be autoclaved.

- Autoclavable up to 135 °C
- Available with or without temperature indicator
- Useful temperature indicator text is white before autoclaving, then black
- Text 'Contents Have Been Autoclaved' indicating successful autoclaving
- Luminous red for easy recognition and highly visible 'Biohazard' label with the corresponding warning sign

The bags meet the requirements of the 480 g tensile strength test as described in ASTM D 299-94A.

Description	Capacity (l)	Material	LxW (mm)	Pk	Cat. No.
Red, with printing sign and temperature indicator	12	PP	610×305	200	**129-0033**
Red, with printing sign and temperature indicator	80	PP	890×635	200	**129-0034**
Red, with printing sign and temperature indicator	75	PP	914×610	200	**129-0035**
Red, with printing sign and temperature indicator	260	PP	1219×965	100	**129-0036**
Plain red, without printing sign	12	PP	610×305	200	**129-0037**
Plain red, without printing sign	75	PP	914×610	200	**129-0038**

Bags, biohazard

PP, 75 µm thick, red, with 'Biohazard' label

Sturdy bags, ideal for disposing of biologically hazardous waste that must first be autoclaved.

- Autoclavable up to 135 °C
- The useful temperature indicator text is white before autoclaving, then black. The text 'Contents Have Been Autoclaved' indicates successful autoclaving
- Luminous red for easy recognition and highly visible 'Biohazard' label with the corresponding warning sign

Capacity (l)	Material	L×W (mm)	Pk	Cat. No.
12	PP	610×305	250	**129-0030**
75	PP	914×610	250	**129-0031**
260	PP	1220×965	50	**129-0032**

Bags, biohazard

HDPE, 100 µm thick, red, with 'Biohazard' label

Sturdy bags, ideal for disposing of biologically hazardous waste that must first be autoclaved. Supplied complete with the necessary sealing wires.

- Autoclavable up to 121 °C
- Highly resistant to tears and impact
- Luminous red for easy recognition and highly visible 'Biohazard' label with the corresponding warning sign

Capacity (l)	Material	L×W (mm)	Pk	Cat. No.
12	HDPE	610×305	50	**129-0039**
75	HDPE	914×610	50	**129-0040**
260	HDPE	1220×965	50	**129-0041**

Bags, biohazard
Bel-Art Products

PP, 38 or 50 µm thick, orange, with 'Biohazard' symbol

- Printed sterilisation patch that darkens when subjected to steam sterilisation
- Black biohazard symbol

Type A: PP bags autoclavable to 135 °C, thickness: 38 µm

Type B: Extra heavy duty bags blended, autoclavable to 121 °C, thickness: 50 µm

Description	Material	L×W (mm)	Pk	Cat. No.
Type A	PP	360×480	200	**129-1000**
Type A	PP	480×580	200	**129-1001**
Type A	PP	640×890	200	**129-1002**
Type A	PP	790×970	200	**129-1003**
Type A	PP	970×1220	100	**129-1004**
Type B	PP	360×480	200	**129-1005**
Type B	PP	480×580	200	**129-1006**
Type B	PP	640×890	200	**129-1007**
Type B	PP	790×960	200	**129-1061**
Type B	PP	940×1220	100	**129-1008**

Bags, biohazard
Bel-Art Products

PP, 40 µm thick, transparent

Ideal solution for the safe disposal of used pipettes, Petri dishes, culture plates, membrane filters and more.

- Translucent with sterilisation indicator patch
- Can be autoclaved at a maximum of 135 °C and discarded
- Printed with the standard biohazard warning symbol and precautionary procedures in four languages

Meets or exceeds dart-impact test requirements of 165 grams per ASTM D1709-85.

Material	L×W (mm)	Pk	Cat. No.
PP	610×300	100	**129-4920**
PP	760×610	100	**129-4925**
PP	910×610	100	**129-4921**

Bags, biohazard, B-Safe

PE, 125 µm (500 gauge), yellow

- For heavy duty disposal
- Printed with biohazard symbol and the wording `Biohazard, Danger of Infection' and `Burn Without Opening' on the two largest bags
- Warning in English, French and German

Description	Material	L×W (mm)	Pk	Cat. No.
Dispenser box				
B-Safe biohazard bags	PE	255×355	50	**129-0351**
B-Safe biohazard bags	PE	455×760	50	**129-0352**
B-Safe biohazard bags	PE	790×1015	25	**129-0353**
Loose pack				
B-Safe biohazard bags	PE	255×355	50	**129-0339**
B-Safe biohazard bags	PE	455×760	50	**129-0340**
B-Safe biohazard bags	PE	790×1015	25	**129-0341**

Bags, bin box, B-Safe

PE, 125 µm (500 gauge), clear

Supplied in benchtop dispenser boxes.

- Heat sealed for leak protection
- Each bag is box-shaped and has a double-string neck pull
- No printing

Description	Material	W×D×H (mm)	Pk	Cat. No.
Bin box bags	PE	150×150×150	25	**129-0403**
Bin box bags	PE	200×250×200	25	**129-0404**
Bin box bags	PE	280×510×280	25	**129-0405**
Bin box bags	PE	490×400×270	25	**129-0406**

Bags, radiation bin box, B-Safe

PE,125 µm (500 gauge), clear

Printed with yellow radioactive warning symbol and a maximum fill line.

- Heat sealed for leak protection
- Each bag is box-shaped and has a double-string neck-pull

Description	Material	W×D×H (mm)	Pk	Cat. No.
Bin box bags	PE	280×510×280	25	**129-0407**
Bin box bags	PE	130×140×130	25	**129-0408**
Bin box bags	PE	150×150×150	25	**129-0409**
Bin box bags	PE	200×250×200	25	**129-0410**
Bin box bags	PE	490×400×270	25	**129-0411**

Bags, radiation B-Safe

HDPE, 125 µm, transparent

Printed on one side; yellow centre with black trefoil and the wording 'Caution Radioactive Material'.

- Warning given in English, French and German
- Supplied in bench top dispenser boxes or loose packs

Description	Material	L×W (mm)	Pk	Cat. No.
Dispenser box				
Dispenser box	HDPE	200×150	100	**129-0346**
Dispenser box	HDPE	355×255	50	**129-0347**
Dispenser box	HDPE	760×455	50	**129-0349**
Dispenser box	HDPE	790×760	25	**129-0350**
Loose pack				
Loose pack	HDPE	200×150	100	**129-0343**
Loose pack	HDPE	355×255	50	**129-0344**
Loose pack	HDPE	790×760	25	**129-0345**
Loose pack	HDPE	510×355	50	**129-0348**

Bags, self-seal biohazard

PE, 62,5 µm (250 gauge)

Tough, yellow biohazard bags, non autoclavable. Supplied in benchtop dispenser boxes.

- Peel-off permanent adhesive seal
- Remove backing and seal for safer transportation/disposal
- Biohazard warning in English, German and French, black printing on yellow background

Description	Material	L×W (mm)	Pk	Cat. No.
Self-seal bags	PE	300×200	200	**129-1931**
Self-seal bags	PE	450×300	200	**129-0398**
Self-seal bags	PE	600×450	200	**129-0399**

Bags, biohazard bin box, B-Safe

PE, 125 µm (500 gauge), transparent, with 'Biohazard' symbol

Printed black biohazard symbol on yellow background with a maximum fill line. Supplied in benchtop dispenser boxes.

- Each bag is box shaped
- Double string neck pull for easy closure

Description	Material	W×D×H (mm)	Pk	Cat. No.
B-Safe bin box bags	PE	150×150×150	25	**129-0354**
B-Safe bin box bags	PE	200×200×250	25	**129-0355**
B-Safe bin box bags	PE	490×270×400	25	**129-0356**
B-Safe bin box bags	PE	280×280×510	25	**129-0357**

Bags, biohazard, hi-temp

PP, 62,5 µm (250 gauge), transparent, with 'Biohazard' label

Black warning symbol on yellow background.

- Safety use instructions printed on each bag
- Suitable for temperatures up to 135 °C

Packaging: Supplied in benchtop dispenser boxes.

Description	Material	L×W (mm)	Pk	Cat. No.
Biohazardous waste bags	PE	350×600	200	**129-0413**
Biohazardous waste bags	PE	650×800	100	**129-0563**
Biohazardous waste bags	PE	650×1000	100	**129-0414**

Bags, autoclave, Sterilin®
Thermo Scientific

Strong, HDPE, white, with blue 'Biohazard' printing

Specifically designed for contaminated waste disposal in autoclaves or incinerators.

- Suitable for high temperature sterilisation at 121 °C
- Convenient tissue box style cartons dispense bags individually

Material	L×W (mm)	Pk	Cat. No.
HDPE	406×610	200	**129-0001**
HDPE	305×660	200	**129-0000**
HDPE	305×660	500	**129-0002**
HDPE	406×610	500	**129-0003**
HDPE	610×810	200	**129-0004**

Bags, biohazard, Sterilin®
Thermo Scientific

Strong PP, with blue 'Biohazard' label

High temperature bags for use in autoclave.

- Suitable for high temperature sterilisation at 135 °C
- Specifically designed for contaminated waste disposal in autoclaves or incinerators
- Convenient tissue box cartons dispense bags individually.

Material	L×W (mm)	Pk	Cat. No.
PP	406×610	200	**129-0600**
PP	307×660	500	**129-0601**
PP	406×610	500	**129-0602**
PP	610×810	200	**129-0603**

Biohazard bag holders, Clavies®
Bel-Art Products

To keep biohazard disposal bags open and ready to use.

- Stainless steel wire frame
- Base in orange PP, which serves as a leakage tray
- Autoclavable at 121 °C to maintain sterility

Ordering information: Delivered unassembled.

Description	W×D×H (mm)	Pk	Cat. No.
Bag holders for bags 300×610 mm	185×356×470	1	**129-1026**
Bag holders for bags 610×760 mm	356×356×546	1	**129-1012**
Bag holders for bags 610×910 mm	356×356×696	1	**129-1027**

Biohazard bag holders, Poxygrid® wire
Bel-Art Products

These epoxy-coated, wire framed bag holders keep biohazard bags open and ready for use. The user just has to place a biohazard bag into the sturdy wire holder and stretch it over the top ring to secure it in place. A separate hooked ring rests over the top to keep the bag in place. Circular shape keeps bags wide open for easy access.

- Made from bright biohazard orange-coloured, epoxy-coated wire

Description	Ø×H (mm)	Pk	Cat. No.
Wire bag holder fit to bags: 300×610 mm	185×520	1	**129-1022**
Wire bag holder fit to bags: 610×760 mm	370×600	1	**129-1023**
Wire bag holder fit to bags: 610×910 mm	370×750	1	**129-1024**

Heat-seal sterilisation bags

Heat-seal sterilisation bags with one paper side (60 g/m^2) and one transparent, pre-assembled PET/PP plastic side.

- Dual sterilisation displays for autoclave and ethylene oxide
- Welded joint
- Available in different sizes

L×W (mm)	Pk	Cat. No.
300×150	100	**129-1404**
300×200	100	**129-1427**
400×200	500	**129-1438**
400×250	100	**129-1407**
500×320	100	**129-1431**

Pouches and bag rolls for sterilisation

Polyamide-based pouches and bags for all sterilisation applications with dry heat. Made from two pre-assembled plastic sides with sterilisation display.

- Non-separable
- Available in different versions according to size

L×W (mm)	Pk	Cat. No.
Pouches		
50×200	100	**129-1433**
80×200	100	**129-1403**
120×250	100	**129-1400**
200×300	100	**129-1401**
300×500	100	**129-1402**
Bags on a roll		
50×120	50 m	**129-1419**
50×200	50 m	**129-1420**
50×300	50 m	**129-1421**

Self-adhesive bags with indicator
Südpack Medical

PET/PP, transparent

These self-adhesive sachets with peelable indicators are supplied with a 60 g/m² paper back and a transparent cover made from PET/PP.

- Sterilisation indicator changes during autoclaving
- Self-adhesive closure

Material	L×W (mm)	Pk	Cat. No.
PET/PP	140×250	200	**129-0278**
PET/PP	90×230	200	**129-0289**

Tubular bag film for sterilisation

Tubular bag film is available as a flat or folding bag in various sizes. Helpful tips for use are printed on the film.

Description	L×W (mm)	Pk	Cat. No.
Tubular bag film, flat			
Tubular bag film, flat	50×50	200 m	**129-1435**
Tubular bag film, flat	50×75	200 m	**129-1422**
Tubular bag film, flat	50×100	200 m	**129-1423**
Tubular bag film, flat	50×150	200 m	**129-1425**
Tubular bag film, flat	50×200	200 m	**129-1426**
Tubular bag film, flat	50×300	200 m	**129-1411**
Tubular bag film, flat	50×400	200 m	**129-1412**
Tubular bag film, with gusset			
Tubular bag film with gusset	40×75	100 m	**129-1437**
Tubular bag film with gusset	50×100	100 m	**129-1434**
Tubular bag film with gusset	50×200	100 m	**129-0485**
Tubular bag film with gusset	50×300	100 m	**129-1430**

Aluminium pouches, OPA/ALU/PE peel, for gamma sterilisation

Polyamide/aluminium/polyester peel pouches for gamma sterilisation.

Packaging: Double bagged in PE bags

Description	L×W (mm)	Pk	Cat. No.
Aluminium pouches – OPA/ALU/PE peel	75×150	10,000	**129-0284**

Pouches and rolls for steam and ETO sterilisation

Description	L×W (mm)	Pk	Cat. No.
Pouch with one side paper and one side green PET/PP	75×250	100	**129-0291**
Pouch with one side paper and one side green PET/PP	190×400	200	**129-0290**
Pouch with one side paper and one side green PET/PP	300×500	400	**129-1439**

Tubular LDPE pharma pouches for gamma sterilisation

Tubular LDPE 80 µ pouches - Pharma quality for gamma sterilisation.

Packaging: Double bagged in PE bags.

Description	L×W (mm)	Width (mm)	Pk	Cat. No.
Tubular LDPE pouches				
Tubular LDPE 80 µm Pharma pouches	80×250		1,000	**129-0287**
Tubular LDPE 80 µm Pharma pouches	150×400		2,500	**129-0288**
Tubular LDPE 80 µm Pharma pouches	350×450		1,000	**129-0292**
Flat tubular bag film				
Flat tubular bag film		250	200 m	**129-1436**

Ties, non-releasable

Nylon cable ties for securing bags, liners and pouches.

- Alphalock non-releasable ties
- Extra strong and secure
- Colour: natural / white

Description	W×H (mm)	Pk	Cat. No.
Nylon tie, non-releasable	2.8×98	1,000	**129-0906**
Nylon tie, non-releasable	3.7×140	1,000	**129-0907**

Cable ties

Nylon cable ties 6/6, standard, non releasable, for securing bags, liners and pouches.

- Available in different sizes and colours
- Operating temperature: -40 to +85 °C (-20 to +60 °C for the cable tie bases)
- No halogen

Flammability rating: UL 94 class V2 Mil spec 23190E

Description	Dimensions (mm)	Colour	Pk	Cat. No.
Nylon tie, tensile strength 8 kg	2.5×100	Black	100	**129-0371**
Nylon tie, tensile strength 13 kg	3.6×140	Black	100	**129-0372**
Nylon tie, tensile strength 22 kg	4.8×200	Black	100	**129-0373**
Nylon tie, tensile strength 22 kg	4.8×300	Black	100	**129-0374**
Nylon tie, tensile strength 22 kg	4.8×370	Black	100	**129-0375**
Nylon tie, tensile strength 8 kg	2.5×100	Opaque White	100	**129-0376**
Nylon tie, tensile strength 13 kg	3.6×140	Opaque White	100	**129-0377**
Nylon tie, tensile strength 22 kg	4.8×200	Opaque White	100	**129-0378**
Nylon tie, tensile strength 22 kg	4.8×300	Opaque White	100	**129-0379**
Nylon tie, tensile strength 22 kg	4.8×370	Opaque White	100	**129-0380**
Nylon tie, tensile strength 8 kg	2.5×100	Red	100	**129-0449**
Nylon tie, tensile strength 8 kg	2.5×100	Blue	100	**129-0461**
Nylon tie, tensile strength 8 kg	2.5×100	Yellow	100	**129-0462**
Nylon tie, tensile strength 8 kg	2.5×100	Green	100	**129-0463**
Nylon tie, tensile strength 8 kg	2.5×100	Orange	100	**129-0464**
Nylon tie, tensile strength 8 kg	2.5×100	Silver	100	**129-0465**
Nylon tie, tensile strength 8 kg	2.5×100	Purple	100	**129-0466**
Nylon tie, tensile strength 8 kg	2.5×100	Brown	100	**129-0467**
Nylon tie, tensile strength 13 kg	3.6×140	Red	100	**129-0468**
Nylon tie, tensile strength 13 kg	3.6×140	Blue	100	**129-0469**
Nylon tie, tensile strength 13 kg	3.6×140	Yellow	100	**129-0470**
Nylon tie, tensile strength 13 kg	3.6×140	Green	100	**129-0471**
Nylon tie, tensile strength 13 kg	3.6×140	Orange	100	**129-0472**
Nylon tie, tensile strength 13 kg	3.6×140	Silver	100	**129-0473**
Nylon tie, tensile strength 13 kg	3.6×140	Purple	100	**129-0474**
Nylon tie, tensile strength 13 kg	3.6×140	Brown	100	**129-0475**
Nylon tie, tensile strength 22 kg	4.8×200	Red	100	**129-0476**
Nylon tie, tensile strength 22 kg	4.8×200	Blue	100	**129-0477**

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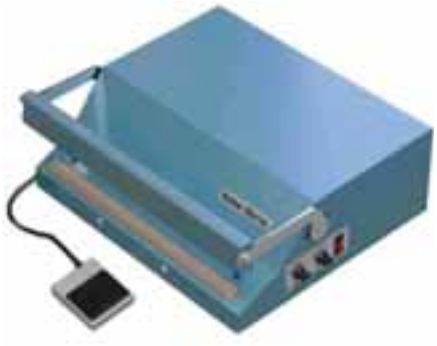
Description	Dimensions (mm)	Colour	Pk	Cat. No.
Nylon tie, tensile strength 22 kg	4.8×200	Yellow	100	**129-0478**
Nylon tie, tensile strength 22 kg	4.8×200	Green	100	**129-0479**
Nylon tie, tensile strength 22 kg	4.8×200	Orange	100	**129-0480**
Nylon tie, tensile strength 22 kg	4.8×200	Silver	100	**129-0481**
Nylon tie, tensile strength 22 kg	4.8×200	Purple	100	**129-0482**
Nylon tie, tensile strength 22 kg	4.8×200	Brown	100	**129-0483**
Nylon tie, tensile strength 22 kg	4.8×370	Red	100	**129-0492**
Nylon tie, tensile strength 22 kg	4.8×370	Blue	100	**129-0493**
Nylon tie, tensile strength 22 kg	4.8×370	Yellow	100	**129-0494**
Nylon tie, tensile strength 22 kg	4.8×370	Green	100	**129-0495**
Nylon tie, tensile strength 22 kg	4.8×370	Orange	100	**129-0496**
Nylon tie, tensile strength 22 kg	4.8×370	Silver	100	**129-0497**
Nylon tie, tensile strength 22 kg	4.8×370	Purple	100	**129-0498**
Nylon tie, tensile strength 22 kg	4.8×370	Brown	100	**129-0499**
Nylon tie, tensile strength 22 kg	4.8×300	Red	100	**129-0564**
Nylon tie, tensile strength 22 kg	4.8×300	Blue	100	**129-0565**
Nylon tie, tensile strength 22 kg	4.8×300	Yellow	100	**129-0566**
Nylon tie, tensile strength 22 kg	4.8×300	Green	100	**129-0567**
Nylon tie, tensile strength 22 kg	4.8×300	Orange	100	**129-0568**
Nylon tie, tensile strength 22 kg	4.8×300	Silver	100	**129-0569**
Nylon tie, tensile strength 22 kg	4.8×300	Purple	100	**129-0570**
Nylon tie, tensile strength 22 kg	4.8×300	Brown	100	**129-0571**

Bag sealing machines, Superseal Impulse

HM 2950 Stainless steel hand operated machine



HM 3100 DS foot operated, semi-automatic

HM 7600 DL foot operated

Superseal Impulse heat sealers are suitable for a wide range of laboratory and medical applications. Units are used extensively for the protective packaging, storage and distribution of pharmaceutical products, chemicals, and many other materials. They are also used for the safe containment and transfer of blood specimens, medical waste and other potentially hazardous substances.

Superseal Impulse machines are fitted with 'plug-in' replacement elements for easy maintenance. Units feature either single timer heat control to adjust for a material thickness up to 250 µm (1000 gauge) polyethylene, or a dual timer for complete control of the weld and cooling cycle.

Units with a cutter option are able to seal and trim oversize bags or to produce bags of different lengths from 'layflat' polyethylene tubing.

- Simple to maintain with consumable spares being easy to fit
- Seal instantly without warm up delay

Hand operated machines - HM 2500 and HM 3000

These standard models have a single electronic timer for control of the heating cycle only. The HM 3000 is able to handle thicker film (250 µm) than the HM 2500 (150 µm).

Hand operated machines - HM 2950, stainless steel

This model has been specifically designed for food, medical and laboratory applications where hygiene and health and safety criteria require an easily cleaned, moisture resistant and non-corrosive sealer. This machine has a dual timer with a pre-set cooling time. Constructed from food grade 316 stainless steel, with a low voltage safety operation and IP rated components. The machine is supplied with a spare heater bar assembly to allow continuous production.

Hand operated machines - HM 3000 CD

This model has a dual electronic timer for complete control of the heating and cooling cycle and a cutter to facilitate bag production from layflat tubing.

Hand operated machines - HM 3000 CDM

This model has a dual electronic timer for complete control of the heating and cooling cycle and a cutter to facilitate bag production from layflat tubing. It also features a hold-down magnet, which allows hands-free completion of sealing cycles.

Foot operated machines - HM 1300 E

This medium capacity, general purpose model has a single electronic timer. It is foot operated via a chain and pedal, leaving hands free to manipulate large or heavy packages.

Foot operated machines - HM 3100 CDL, HM 6500 CDL and HM 7600 DL

Simply bench mounted, these models have a dual electronic timer for complete control of the heating and cooling cycle, and a cutter to facilitate bag production from layflat tubing. They also have a cable operated foot pedal, which allows increased flexibility of installation. The foot pedal has a lever action design, which helps to minimise operator effort.

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Foot operated machines - HM 3100 DS (semi-automatic)

This model has a dual electronic timer for complete control of the heating and cooling cycle. It is controlled via a one touch pad switch that can be operated by the foot or by hand.

Model	HM 2500	HM 2950	HM 3000	HM 3000 CD	HM 3000 CDM	HM 1300 E	HM 3100 CDL	HM 3100 DS	HM 6500 CDL	HM 7600 DL
Sealing length, max. (mm)	240	310	310	310	310	340	310	310	660	770
Seal width (mm)	3	3	3	3	3	3	3	3	3	3
Film thickness (µm)	2×150	2×250	2×250	2×250	2×250	2×250	2×250	2×250	2×250	2×250
Cutter option	No	No	No	Yes	Yes	No	Yes	No	Yes	No
Timer	Single	Dual	Single	Dual	Dual	Single	Dual	Dual	Dual	Dual
Power consumption per seal (W)	165	300	300	300	300	325	300	300	360	360
W×D×H (mm)	338×123×170	374×161×190	455×139×190	455×139×190	455×139×190	454×190×190	400×340×150	400×340×150	851×180×190	955×180×190
Weight (kg)	5.1	7.8	8.5	8.5	8.5	10.7	14.5	15.5	19.5	21.0

Description	Pk	Cat. No.
Hand operated machines		
HM 2500 general purpose sealer, single timer, without cutter	1	**129-0386**
HM 2950 stainless steel, dual timer, without cutter	1	**129-0387**
HM 3000 single pivot action, single timer, without cutter	1	**129-0388**
HM 3000 CD single pivot action, dual timer, with cutter	1	**129-0389**
HM 3000 CDM single pivot action, dual timer, with cutter and magnetic grip	1	**129-0390**
Foot operated machines		
HM 1300 E chain operated foot pedal, single timer, without cutter	1	**129-0385**
HM 3100 CDL cable operated foot pedal, dual timer, with cutter	1	**129-0391**
HM 3100 DS semi-automatic solenoid operation, dual timer, without cutter	1	**129-0392**
HM 6500 CDL cable operated foot pedal, dual timer, with cutter	1	**129-0393**
HM 7600 DL cable operated foot pedal, dual timer, without cutter	1	**129-0394**

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Shelving systems, Metromax
Metro International

Tough polymer construction, edges manufactured out of stainless steel

- With four shelves each individually configured and easy to clean
- Load capacity: From approx. 270 kg to 360 kg, depending on the size of the shelving system

Description	Material	W×D×H (mm)	Pk	Cat. No.
Shelf system	polymer and stainless steel	910×455×1880	1	**132-3901**
Shelf system	polymer and stainless steel	910×610×1880	1	**132-3905**
Shelf system	polymer and stainless steel	1220×455×1880	1	**132-3902**
Shelf system	polymer and stainless steel	1220×610×1880	1	**132-3906**
Shelf system	polymer and stainless steel	1525×455×1880	1	**132-3903**
Shelf system	polymer and stainless steel	1525×610×1880	1	**132-3907**
Shelf system	polymer and stainless steel	1825×455×1880	1	**132-3904**
Shelf system	polymer and stainless steel	1825×610×1880	1	**132-3908**

Shelving systems, Quick, MetroMax Q
Metro International

Plastic coated steel and corrosion proof

Simple to configure using a clip lock system - no tools required.

- The shelving height can be changed in just a few minutes
- Supplied with four shelves as standard
- Load capacity: From approx. 270 to 360 kg, depending on the size of the shelving system

Description	Material	W×D×H (mm)	Pk	Cat. No.
Quick shelving systems	Plastic coated steel	910×455×1880	1 KIT	**132-3909**
Quick shelving systems	Plastic coated steel	910×610×1880	1 KIT	**132-3913**
Quick shelving systems	Plastic coated steel	1220×455×1880	1 KIT	**132-3910**
Quick shelving systems	Plastic coated steel	1220×610×1880	1 KIT	**132-3914**
Quick shelving systems	Plastic coated steel	1525×455×1880	1 KIT	**132-3911**
Quick shelving systems	Plastic coated steel	1525×610×1880	1 KIT	**132-3915**
Quick shelving systems	Plastic coated steel	1825×455×1880	1 KIT	**132-3912**
Quick shelving systems	Plastic coated steel	1825×610×1880	1 KIT	**132-3916**

Shelving systems, chrome
Metro International

Made of superior chromium plated steel

Flexible and tough modular shelving system. Due to a special locking mechanism the grid shelves can be vertically adjusted in just a few minutes without the use of tools, while still providing a safe and secure stand. The add-on shelving can be used to expand the basic system, or can be configured separately.

- Quick and easy assembly to meet individual requirements
- Each unit comprises four shelves
- Height: 1600 mm
- Load capacity: approx. 1000 kg (approx. 250 kg per shelf)

Description	Material	W×D×H (mm)	Pk	Cat. No.
Basic shelving	Chromium plated steel	915×460×1600	1	**132-3921**
Basic shelving	Chromium plated steel	1070×460×1600	1	**132-3923**
Basic shelving	Chromium plated steel	1220×460×1600	1	**132-3925**
Basic shelving	Chromium plated steel	915×535×1600	1	**132-3927**
Basic shelving	Chromium plated steel	1070×535×1600	1	**132-3929**
Add-on shelving	Chromium plated steel	915×460×1600	1	**132-3922**
Add-on shelving	Chromium plated steel	1070×460×1600	1	**132-3924**
Add-on shelving	Chromium plated steel	1220×460×1600	1	**132-3926**
Add-on shelving	Chromium plated steel	915×535×1600	1	**132-3928**
Add-on shelving	Chromium plated steel	1070×535×1600	1	**132-3930**

Laboratory tables

Stainless steel laboratory table with single-piece worktop for easy cleaning and working. The table top is manufactured using a sandwich construction, both top and bottom are made of stainless steel.

- Wide range of sizes, table width from 1 m to 1.5 m
- Available with or without 50 mm splashback or extra bottom shelf
- Equipped with plastic threaded feet to allow adjustment of the table by ±20 mm to level out unevenness

Description	W×D×H (mm)	Pk	Cat. No.
Without bottom shelf	1000×750×850	1	**132-0017**
Without bottom shelf	1200×750×850	1	**132-0018**
Without bottom shelf	1500×750×850	1	**132-0019**

Gas cylinder holder
Usbeck

Powder coated aluminium gas cylinder holder with safety belt and snap buckles. Can be easily fastened onto workbenches, tables, shelves or a ledge up to 70 mm thickness.

- Suitable for all cylinders size 10 litres and above
- Secures tightly, can be loosened quickly

Description	Pk	Cat. No.
Gas cylinder holder	1	**159-9110**

Acids and lye materials storage cabinet, ACID Line
Düperthal

Doors and carcass made from 19 mm thick melamine resin coated sheet, in RAL 7035 light grey.

Acids and lye cabinets for the storage of non flammable corrosive liquids.

These cabinets feature easy storage and removal in pull-out trays made of PE (the UTS L model with drawer inlay made of PP). The ACID line M 1 door models have a standard left door hinge (right door hinge optionally available on request).

There is a constant air exchange through a ventilation grill in the doors and via the exhaust air duct in the rear panel when this is connected to an industrial exhaust air system. Venting connection outlet (Ø 75 mm) on the top of the cabinet.

- Pull out trays with integrated recessed grip for user friendly operation are removable for easy cleaning
- Base set back to prevent people from hitting their feet (models M 1 to M 4)
- Individually locking wing doors with "D"-type handles are easy to open, as well as smooth and quiet to close

In accordance with DIN EN 14727.

Delivery information: Identification label for acids and lye, and warning symbols included. Delivery is not included, prices available on request.

Description	W×D×H (mm)	Doors	Weight (kg)	Pk	Cat. No.
Safety cabinet for acids and lye, UTS L, with bottom tray made from PP	1100×660×635	1 drawer	75	1	**135-1448**
Safety cabinet for acids and lye, ACID UTS LT, with 4 pull-out trays made of PE	1100×660×635	2 wing doors	65	1	**132-0628**
Safety cabinet for acids and lye, ACID UTS ST, with 2 pull-out trays made of PE	600×660×635	1 wing door	36	1	**132-0630**
Safety cabinet for acids and lye, ACID M 1, with 6 pull-out trays made of PE	600×660×2040	2 wing doors	120	1	**132-0631**
Safety cabinet for acids and lye, ACID M 2, with 6 pull-out trays made of PE	600×660×2040	1 wing door	120	1	**132-0632**
Safety cabinet for acids and lye, ACID M 3, with 4 pull-out trays made of PE	600×660×2040	2 wing doors	105	1	**132-0633**
Safety cabinet for acids and lye, ACID M 4, with 4 pull-out trays made of PE	600×660×2040	1 wing door	105	1	**132-0634**

Safety storage cabinets for acids with wing doors, LTE

With these single and double door storage cabinets acids can be segregated from other materials and stored safely. Fabricated in rust-proof mild steel and finished in a light grey acid resistant epoxy paint. As an additional safety precaution the cabinets are lockable to prevent unauthorised access. Cabinets do not meet the requirements of BS EN 14470-1.

- Durable surface that is easy to clean and scratch resistant
- Epoxy coated steel trays avoid the corrosion problems common to conventional cabinets
- Clearly marked with the hazard warning label conforming to BS 5378

Delivery information: Each cabinet is supplied with two epoxy coated steel trays to contain any spillage.

Model	1 door, small/large	2 doors, small	2 doors, large
Capacity per cabinet - 2.5 l Merck Euro	12	4	20
Capacity per cabinet - 2.5 l Winchester		5	24
Tray spillage capacity (l)	10	7	17
Tray W×D×H (mm)	515×415×50	565×265×50	855×415×50

Description	W×D×H (mm)	Pk	Cat. No.
1 door, small, 29 tray positions	560×460×790	1	**132-3008**
1 door, large, 35 tray positions	560×460×915	1	**132-3009**
2 door, small, 23 tray positions	610×310×610	1	**132-3011**
2 door, large, 29 tray positions	900×460×790	1	**132-3010**

Safety storage cabinets with wing doors, LTE

Single and double door safety cabinets designed for the safe storage of flammable liquids, constructed of rust-proof mild steel and attractively finished inside and outside in light grey epoxy paint. Fitted with lockable handle with top and bottom securing catches which help to prevent distortion under fire conditions. Cabinets do not meet the requirements of BS EN 14470-1.

- Durable surface that is easy to clean and scratch resistant
- Epoxy coated steel trays avoid the corrosion problems common to conventional cabinets
- Clearly marked with the hazard warning label conforming to BS 5378

Delivery information: Each cabinet is supplied with two epoxy coated steel trays to contain any spillage.

Model	1 door, small/large	2 doors, small	2 doors, large
Capacity per cabinet - 2.5 l Merck Euro	12	4	20
Capacity per cabinet - 2.5 l Winchester		5	24
Tray spillage capacity (l)	10	7	17
Tray W×D×H (mm)	515×415×50	565×265×50	855×415×50

Description	W×D×H (mm)	Pk	Cat. No.
1 door, small, 29 tray positions	560×460×790	1	**132-3000**
1 door, large, 35 tray positions	560×460×915	1	**132-3001**
2 doors, small, 23 tray positions	610×310×610	1	**132-3003**
2 doors, large, 29 tray positions	915×450×710	1	**132-3004**

Safety storage cabinets/chests, mobile, LTE

Mobile fire resistant cabinet/chest for transportation of flammable liquids in and between workplaces. Constructed of rust-proof steel coated in durable epoxy paint with hazard warning label. Hinged lid with a toggle catch, can be padlocked for security. Four removable swivel castors and four chest handles make for easy transportation.

- Durable surface that is easy to clean and scratch resistant
- Fully welded tray to retain spillages

Capacity per cabinet - 2.5 l Merck Euro	8
Capacity per cabinet - 2.5 l Winchester	
Tray spillage capacity (l)	27
Tray W×D×H (mm)	622×140×310

Description	W×D×H (mm)	Pk	Cat. No.
1 hinged lid, mobile storage cabinet/chest	648×342×384	1	**132-3007**

Safety storage cabinets, type 90, Q-PEGASUS-90

asecos

Body anthracite grey / doors warning yellow

Body anthracite grey / doors light grey

Fireproof safety cabinets, classified type 90 (fire resistant up to 90 minutes), safe, durable, robust and convenient with transport base and bicoloured cabinet design. The PEGASUS line is nearly identical to the CLASSIC one, with integrated AGT (one-hand operation for double-door cabinets) and integrated TSA (door open arrest system and automatic door closing).

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- Robust construction and longevity – triple hinged door, safety elements assembled outside the storage compartment for increased protection against corrosion, scratch and impact resistant surface, easy to clean
- Convenient handling – one-hand operation for double-door cabinets (AGT)
- User-friendly and safe – door open arrest system (standard), offers convenient and safe removal or storage of containers
- Always closed – serial automatic door closing (TSA) releases arrested doors after approx. 60 seconds. Acoustic and visual signal before closing
- No unauthorised use – doors lockable with cylinder locking (integration in a locking system possible) and locking state indicator (red/green)
- Easy transport – integrated transport base with removable, optional base cover
- Easy alignment – adjusting aids to compensate for uneven floor
- Quickly put into operation – integrated air ducts ready for connection (NW 75 mm) to a technical exhaust system

The new 2-colour look with a choice of 7 door colours (on request), at no extra cost, offers maximum individuality and a modern appearance.

Furnace tested (type test) in accordance with EN 14470-1
Fire resistance 90 minutes
GS approval, CE conformity
EN 14727 conformity (laboratory furniture)

Ordering information: Supplied without interior equipment packages. Interior equipment packages need to be ordered separately. Please check www.vwr.com or contact VWR for further information.

Delivery information: Delivery prices available upon request.

Description	W×D×H (mm)	W×D×H int. (mm)	Doors	Weight (kg)	Pk	Cat. No.
Safety storage cabinet, type 90, without interior equipment, model Q90,195,120.WDAC, with door open arrest system Body anthracite grey / doors warning yellow	1200×615×1955	1050×520×1645	2 wing	424	1	**135-1743**
Safety storage cabinet, type 90, without interior equipment, model Q90,195,120.WDAC, with door open arrest system Body anthracite grey / doors light grey	1200×615×1955	1050×520×1645	2 wing	424	1	**135-1744**
Safety storage cabinet, type 90, without interior equipment, model Q90,195,090.WDAC, with door open arrest system Body anthracite grey / doors warning yellow	900×615×1955	700×520×1645	2 wing	343	1	**135-1750**
Safety storage cabinet, type 90, without interior equipment, model Q90,195,090.WDAC, with door open arrest system Body anthracite grey / doors light grey	900×615×1955	700×520×1645	2 wing	343	1	**135-1751**
Safety storage cabinet, type 90, without interior equipment, model Q90,195,060.WDAC, with door open arrest system Body anthracite grey / door warning yellow	600×615×1955	450×520×1645	1 wing (left hinged)	265	1	**135-1754**
Safety storage cabinet, type 90, without interior equipment, model Q90,195,060.WDACR, with door open arrest system Body anthracite grey / door light grey	600×615×1955	450×520×1645	1 wing (lef hinged)	265	1	**135-1755**

Description	Pk	Cat. No.
Accessories		
4 Drawers in sheet steel plastic laminated RAL 7035, for safety cabinet Q - width: 1200 mm	1 Pack	**135-1745**
6 Drawers in sheet steel plastic laminated RAL 7035, for safety cabinet Q- width: 1200 mm	1 Pack	**135-1746**
6 Drawers in sheet steel plastic laminated RAL 7035, for safety cabinet Q - width: 900 mm	1 Pack	**135-1752**
6 Drawers in sheet steel plastic laminated RAL 7035, for safety cabinets - width: 600 mm	1 Pack	**135-1756**
1 Shelf, sheet steel plastic laminated RAL 7035, 1043×435×30 mm (W×D×H), for safety cabinet - width: 1200 mm	1	**135-1808**
1 Shelf, sheet steel plastic laminated RAL 7035, 743×435×30 mm (W×D×H), for safety cabinet - width: 900 mm	1	**135-1809**
1 Shelf, sheet steel plastic laminated RAL 7035, 443×435×30 mm (W×D×H), for safety cabinets - width: 600 mm	1	**135-1810**

Safety storage cabinets, type 90, Q-CLASSIC-90
asecos

Body anthracite grey/doors light grey (RAL7016/RAL7035)

Body anthracite grey/doors warning yellow (RAL7016/ RAL1004)

Fireproof safety cabinets, classified type 90 (fire resistant up to 90 minutes), safe, durable, robust and convenient with transport base and bicoloured cabinet design.

- Robust construction and longevity – triple hinged door, safety elements assembled outside the storage compartment for increased protection against corrosion, scratch and impact resistant surface, easy to clean

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- Easy handling with comfort – doors stop in any position, self-closing in the event of fire
- No unauthorised use – doors lockable with cylinder locking (integration in a locking system possible) and locking state indicator (red/green)
- Easy transport – integrated transport base with removable, optional base cover
- Easy alignment – adjusting aids to compensate for uneven floor
- Quickly put into operation – integrated exhaust outlet ready for connection (NW 75 mm) to a technical exhaust system

The 2-colour look with a choice of 7 door colours, at no extra cost, offers maximum individuality and a modern appearance.

Furnace tested (type test) in accordance with EN 14470-1
Fire resistance 90 minutes
GS approval, CE conformity
EN 14727 conformity (laboratory furniture)

Seven door colours are available. Supplied without interior equipment packages. Interior equipment packages need to be ordered separately. Please check www.vwr.com or contact your local VWR office for further information.

Delivery information: Delivery prices available upon request.

Description	W×D×H (mm)	W×D×H int. (mm)	Doors	Weight (kg)	Pk	Cat. No.
Safety storage cabinet, type 90, without interior equipment, model Q90,195,090 Body anthracite grey/doors light grey	1200×615×1955	1050×520×1645	2 wing	424	1	**135-1742**
Safety storage cabinet, type 90, without interior equipment, model Q90,195,090 Body anthracite grey/doors warning yellow	900×615×1955	750×520×1645	2 wing	343	1	**135-1749**
Safety storage cabinet, type 90, without interior equipment, model Q90,195,090 Body anthracite grey/doors light grey	600×615×1955	450×520×1645	1 wing	265	1	**135-1753**

Description	Pk	Cat. No.
Accessories		
4 Drawers in sheet steel plastic laminated RAL 7035, for safety cabinet Q - width: 1200 mm	1 Pack	**135-1745**
6 Drawers in sheet steel plastic laminated RAL 7035, for safety cabinet Q- width: 1200 mm	1 Pack	**135-1746**
6 Drawers in sheet steel plastic laminated RAL 7035, for safety cabinet Q - width: 900 mm	1 Pack	**135-1752**
6 Drawers in sheet steel plastic laminated RAL 7035, for safety cabinets - width: 600 mm	1 Pack	**135-1756**
1 Shelf, sheet steel plastic laminated RAL 7035, 1043×435×30 mm (W×D×H), for safety cabinet - width: 1200 mm	1	**135-1808**
1 Shelf, sheet steel plastic laminated RAL 7035, 743×435×30 mm (W×D×H), for safety cabinet - width: 900 mm	1	**135-1809**
1 Shelf, sheet steel plastic laminated RAL 7035, 443×435×30 mm (W×D×H), for safety cabinets - width: 600 mm	1	**135-1810**

Safety storage cabinets, type 90, S-CLASSIC-90
asecos

Body light grey / doors light grey RAL 7035

Body light grey / doors light grey RAL 7035

Outer body made of sheet steel with high grade structured paint finish, interior with chemically resistant surface.

Fireproof safety cabinets, classified type 90 (fire resistant up to 90 minutes).

- Robust construction and longevity – safety elements assembled outside the storage compartment for increased protection against corrosion, easy to clean
- Convenient handling: Doors can be opened with minimal effort
- User friendly and safe: Door open arrest system (optional), convenient and safe removal or storage of containers
- No unauthorised use: Doors lockable with cylinder locking (integration in a locking system possible)
- Easy alignment: Adjusting aids to compensate for uneven floor
- Quickly put into operation: Integrated air ducts ready for connection (NW 75 mm) to a technical exhaust system

Furnace tested (type test) in accordance with EN 14470-1
Fire resistance 90 minutes
GS approval, CE conformity
EN 14727 conformity (laboratory furniture)
Made in Germany

Ordering information: Other colours are available on request. Supplied without interior equipment packages. Interior equipment packages need to be ordered separately. Please check www.vwr.com or contact VWR for further information.

Delivery information: Delivery prices available upon request.

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Description	W×D×H (mm)	W×D×H int. (mm)	Doors	Weight (kg)	Pk	Cat. No.
Safety storage cabinet, type 90, without interior equipment, with door open arrest, model S90,196,120, S-CLASSIC-90 Body: light grey / Doors: light grey RAL 7035	1200×615×1968	1050×520×1740	2 wing	410	1	**135-1759**
Safety storage cabinet, type 90, without interior equipment, with door open arrest, model S90,196,120, S-CLASSIC-90 Body: warning yellow / Doors: warning yellow RAL 1004	1200×615×1968	1050×520×1740	2 wing	410	1	**135-1760**
Safety storage cabinet, type 90, without interior equipment, with door open arrest, S-CLASSIC Body: anthracite grey / Doors: light grey	900×615×1968	750×520×1740	2 wing	335	1	**135-1761**
Safety storage cabinet, type 90, without interior equipment, model S90,196,090, S-CLASSIC-90 Body: light grey / Doors: light grey RAL 7035	900×615×1968	750×520×1740	2 wing	335	1	**135-1762**
Safety storage cabinet, type 90, without interior equipment, model S90,196,090, S-CLASSIC-90 Body: warning yellow / Doors: warning yellow RAL 1004	600×615×1968	450×520×1740	1 wing (left hinged)	255	1	**135-1697**
Safety storage cabinet, type 90, without interior equipment, with door open arrest, model S90,196,060, S-CLASSIC-90 Body: warning yellow / Doors: warning yellow RAL 1004	600×615×1968	450×520×1740	1 wing (left hinged)	255	1	**135-1695**

Description	Pk	Cat. No.
Accessories		
4 Drawers (available only for cabinets with door open arrest system) sheet steel plastic laminated RAL 7035, for safety cabinet S-CLASSIC - width 1200 mm	1 Pack	**135-1812**
6 Drawers (available only for cabinets with door open arrest system) sheet steel plastic laminated RAL 7035, for safety cabinet S-CLASSIC - width 1200 mm	1 Pack	**135-1813**
4 Drawers (available only for cabinets with door open arrest system) sheet steel plastic laminated RAL 7035, for safety cabinet S-CLASSIC - width 900 mm	1 Pack	**135-1815**
6 Drawers (available only for cabinets with door open arrest system) sheet steel plastic laminated RAL 7035, for safety cabinet S-CLASSIC - width 900 mm	1 Pack	**135-1816**
4 Drawers (available only for cabinets with door open arrest system) sheet steel plastic laminated RAL 7035, for safety cabinet S-CLASSIC - width 600 mm	1 Pack	**135-1818**
6 Drawers (available only for cabinets with door open arrest system) sheet steel plastic laminated RAL 7035, for safety cabinet S-CLASSIC - width 600 mm	1 Pack	**135-1819**
1 Shelf, sheet steel plastic laminated RAL 7035, 1043×435×30 mm (W×D×H), for safety cabinet - width: 1200 mm	1	**135-1808**
1 Shelf, sheet steel plastic laminated RAL 7035, 743×435×30 mm (W×D×H), for safety cabinet - width: 900 mm	1	**135-1809**
1 Shelf, sheet steel plastic laminated RAL 7035, 443×435×30 mm (W×D×H), for safety cabinets - width: 600 mm	1	**135-1810**
3 Shelves, 1 perforated insert, 1 bottom collecting sump (V=33 l) sheet steel plastic laminated RAL7035, for safety cabinet S-CLASSIC - width 1200 mm	1 Pack	**135-1811**
3 Shelves, 1 perforated insert, 1 bottom collecting sump (V=23 l) sheet steel plastic laminated RAL7035, for safety cabinet S-CLASSIC - width 900 mm	1 Pack	**135-1814**
3 Shelves, 1 perforated insert, 1 bottom collecting sump (V=22 l) sheet steel plastic laminated RAL7035, for safety cabinet S-CLASSIC - width 600 mm	1 Pack	**135-1817**

Safety cabinets with classic wing doors, Type 90, CLASSIC line

Düperthal

Wing doors and complete carcass made from sheet steel, powder-coated in light grey RAL 7035. Interior fittings include optional pull-out trays or standard shelves, made from powder-coated sheet steel.

Safety cabinets are fire resistant up to 90 minutes, with pull-out trays or shelves for the storage of hazardous substances in working spaces.

The doors are equipped with a standard integrated arrest system, so that containers can be placed in and removed from the cabinet with both hands. In case of fire, the thermocouple initiates the closing of the doors. All CLASSIC M models come with standard right hand door hinge, option with left hand door hinge available (on request).

Standard equipotential bonding saddle on the roof of the cabinet for earth connection in accordance with TRBS 2153, BGR 132 (avoiding ignition hazards). The interior fittings are conductively connected with the equipotential bonding saddle.

Ventilation at all levels of the cabinet, plus the ability to visually check the venting cut-off flaps. The cut-off flaps close automatically in the case of fire. The exhaust connection diameter is 75/110 mm.

- Built-in door arrest mechanism allows containers to be removed and stored conveniently
- Adjustable base for easy alignment and transport with a hand pallet truck, the base is set back to prevent hitting of feet

In accordance with TRbF 20 Annex L. Type testing according to DIN EN 14470-1 and DIN EN 14727 (laboratory furniture standard) by recognised test institutes (TÜV Süd, iBMB Braunschweig) and classification type 90 in accordance with DIN EN 14470-1, GS/CE mark.

Delivery information: Delivery is not included, prices available on request.

Description	W×D×H (mm)	Doors	Weight (kg)	Pk	Cat. No.
Safety cabinet, CLASSIC M with 3 shelves, 1 bottom tray and 1 perforated insert	595×595×2080	1 wing door, hinge right	287	1	**132-0650**
Safety cabinet, CLASSIC M with 4 pull out-out trays	595×595×2080	1 wing door, hinge right	287	1	**132-0653**
Safety cabinet, CLASSIC M with 5 pull out-out trays	595×595×2080	1 wing door, hinge right	287	1	**132-0652**
Safety cabinet, CLASSIC M with 6 pull out-out trays	595×595×2080	1 wing door, hinge right	287	1	**132-0651**
Safety cabinet, CLASSIC L with 3 shelves, 1 bottom tray and 1 perforated insert and base, special width 895 mm	895×595×2080	2 wing doors, yellow	358	1	**135-1685**
Safety cabinet, CLASSIC XL with 3 shelves, 1 bottom tray and 1 perforated insert	1195×595×2080	2 wing doors	469	1	**132-0662**

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Description	W×D×H (mm)	Doors	Weight (kg)	Pk	Cat. No.
Safety cabinet, CLASSIC XL with 4 pull-out trays	1195×595×2080	2 wing doors	469	1	**132-0665**
Safety cabinet, CLASSIC XL with 5 pull-out trays	1195×595×2080	2 wing doors	469	1	**132-0664**
Safety cabinet, CLASSIC XL with 6 pull-out trays	1195×595×2080	2 wing doors	469	1	**132-0663**

Safety under bench cabinets with wing doors or drawers, Type 90, UTS LINE
Düperthal

Wing doors, drawers and carcass made from sheet steel, powder-coated in light grey RAL 7035, base in slate grey RAL 7015. Interior fittings made from powder-coated sheet steel.

These safety cabinets are fire resistant up to 90 minutes. These under bench cabinets are equipped with wing doors and/or drawers for the storage of hazardous substances in working spaces.

Drawers or wing doors remain open in any position and containers can be inserted and removed using both hands. The drawers/doors close automatically in case of fire. All UTS models come with standard right hand door hinge, optionally available with left hand door hinge (on request).

Standard equipotential bonding saddle on the roof of the cabinet for connecting to the earthing in accordance with TRBS 2153, BGR 132 (avoiding ignition hazards). The interior fittings are conductively connected with the equipotential bonding saddle.

Constant floor extraction by the slotted base (height 35 mm). This enables harmful substances or vapours which collect at the bottom to be safely picked up and removed with the exhaust air. The exhaust connection diameter is 75 mm on the rear of the cabinet. The cut-off flaps close automatically in the case of fire.

• Easy moving, single-handed operation of the doors and drawers

In accordance with TRbF 20 Annex L. Type testing according to DIN EN 14470-1 and DIN EN 14727 (laboratory furniture standard) by recognised test institutes (TÜV Süd, ift Rosenheim) and classification type 90 in accordance with DIN EN 14470-1, GS/CE mark.

Delivery information: Delivery is not included, prices available upon request.

Description	W×D×H (mm)	W×D×H int. (mm)	Doors	Weight (kg)	Pk	Cat. No.
Safety under bench cabinet UTS S, with 1 bottom tray and 1 perforated sheet insert	600×595×635	503×463×480	1 drawer	118	1	**135-1896**
Safety under bench cabinet UTS LD, with 2 bottom trays and 2 perforated sheet inserts	1100×595×635	1003×463×480	2 drawers	199	1	**135-1904**
Safety under bench cabinet UTS XLD, with 2 bottom trays and 2 perforated sheet inserts	1400×595×635	790×463×480 490×463×480	2 drawers	247	1	**135-1906**
Safety under bench cabinet UTS ST, with 1 bottom tray and 1 perforated sheet insert	600×595×635	503×463×480	1 wing door	113	1	**135-1895**
Safety under bench cabinet UTS MT, with 1 bottom tray and 1 perforated sheet insert	888×595×635	790×463×480	2 wing doors	155	1	**135-1900**
Safety under bench cabinet UTS LT, with 1 bottom tray and 1 perforated sheet insert	1100×595×635	1003×463×480	2 wing doors	184	1	**135-1903**
Safety under bench cabinet UTS ST-5, with 1 bottom tray, 1 perforated sheet insert and base of 35 mm	600×493×681	503×363×480	1 wing door	99	1	**135-1894**
Safety under bench cabinet UTS MT, with 1 bottom tray, 1 perforated sheet insert and base of 35 mm	888×593×631	790×463×480	2 wing doors	141	1	**135-1898**
Safety under bench cabinet UTS M, with 1 bottom tray, 1 perforated sheet insert and base of 35 mm	888×593×631	790×463×480	2 wing doors	149	1	**135-1899**
Safety under bench cabinet UTS LD, with 2 bottom trays, 2 perforated sheet inserts and base of 35 mm	1100×593×631	490×463×480	2 wing doors	187	1	**135-1902**

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Description	W×D×H (mm)	W×D×H int. (mm)	Doors	Weight (kg)	Pk	Cat. No.
Safety under bench cabinet UTS ST, with 1 bottom tray, 1 perforated sheet insert and base of 35 mm	888×593×681	503×463×480	1 wing door	106	1	**135-1897**
Safety under bench cabinet UTS M, with 1 pullout tray, 1 perforated sheet insert and base of 35 mm	1100×493×631	1003×363×480	2 wing doors	168	1	**135-1901**
Safety under bench cabinet UTS LT, with 1 bottom tray, 1 perforated sheet insert and base of 35 mm	1100×593×631	1003×463×480	2 wing doors	169	1	**135-1905**

Safety cabinets with folding doors, Type 90, PREMIUM line

Düperthal

Folding doors and complete carcass made from sheet steel, powder-coated in light grey RAL 7035. Interior fittings comprise of optional pull-out trays or standard shelves, made from powder-coated sheet steel.

Fire resistant up to 90 minutes, these safety cabinets are equipped with pull-out trays or shelves for the storage of hazardous substances in working spaces.

The doors are equipped with a standard integrated arrest system, so that containers can be placed in and removed from the cabinet with both hands. In case of fire, the thermocouple initiates the closing of the doors. All PREMIUM M models come with standard right hand door hinge, optionally available with left hand door hinge (on request).

Standard equipotential bonding saddle on the roof of the cabinet for connecting to the earthing in accordance with TRBS 2153, BGR 132 (avoiding ignition hazards). The interior fittings are conductively connected with the equipotential bonding saddle.

Ventilation at all levels of the cabinet plus the ability to visually check the venting cut-off flaps. The cut-off flaps close automatically in the case of fire. The exhaust connection diameter is 75/110 mm.

- Built-in door arrest mechanism allows containers to be removed and stored conveniently
- Adjustable base for easy alignment and transport with a hand pallet truck, the base is set back to prevent hitting of feet

In accordance with TRbF 20 Annex L. Type testing according to DIN EN 14470-1 and DIN EN 14727 (laboratory furniture standard) by recognised test institutes (TÜV Süd, iB ift Rosenheim) and classification type 90 in accordance with DIN EN 14470-1, GS/CE mark.

Delivery information: Delivery is not included, prices available on request.

Description	W×D×H (mm)	Doors	Weight (kg)	Pk	Cat. No.
Safety cabinet, PREMIUM M with 3 shelves, 1 bottom tray and 1 perforated insert	595×595×2080	1 folding door, hinge right	290	1	**132-0654**
Safety cabinet, PREMIUM M with 6 pull-out trays	595×595×2080	1 folding door, hinge right	290	1	**132-0655**
Safety cabinet, PREMIUM M with 5 pull-out trays	595×595×2080	1 folding door, hinge right	290	1	**132-0656**
Safety cabinet, PREMIUM M with 4 pull-out trays	595×595×2080	1 folding door, hinge right	290	1	**132-0657**
Safety cabinet, PREMIUM XL with 3 shelves, 1 bottom tray and 1 perforated insert	1195×595×2080	2 folding doors	475	1	**132-0666**
Safety cabinet, PREMIUM XL with 6 pull-out trays	1195×595×2080	2 folding doors	475	1	**132-0667**
Safety cabinet, PREMIUM XL with 5 pull-out trays	1195×595×2080	2 folding doors	475	1	**132-0668**
Safety cabinet, PREMIUM XL with 4 pull-out trays	1195×595×2080	2 folding doors	475	1	**132-0669**

Combined safety storage cabinets, type 90, K-PHOENIX-90 / K-PHOENIX Vol.2-90

asecos

Two in one: Storage of flammable liquids and aggressive chemicals in one cabinet.

Fireproof safety cabinets, classified type 90 (fire resistant up to 90 minutes), safe, durable, robust and convenient.

- Safety elements assembled outside the storage compartment for increased protection against corrosion, easy to clean
- Standard door open arrest system (compartment with folding doors), doors stop in any position (compartment with wing doors) - convenient and safe removal or storage of containers
- Doors lockable with cylinder locking (integration in a locking system possible, left compartment)
- Adjusting aids to compensate for uneven floor
- Integrated exhaust outlet ready for connection (NW 75 mm) to a technical exhaust system with only one extraction air inlet

K-PHOENIX Vol.2-90 compartment with folding door:

Serial automatic door closing (TSA) releases the arrested door after approx. 60 seconds. Acoustic and visual signal before closing.

Compartment with folding door for flammable liquids:

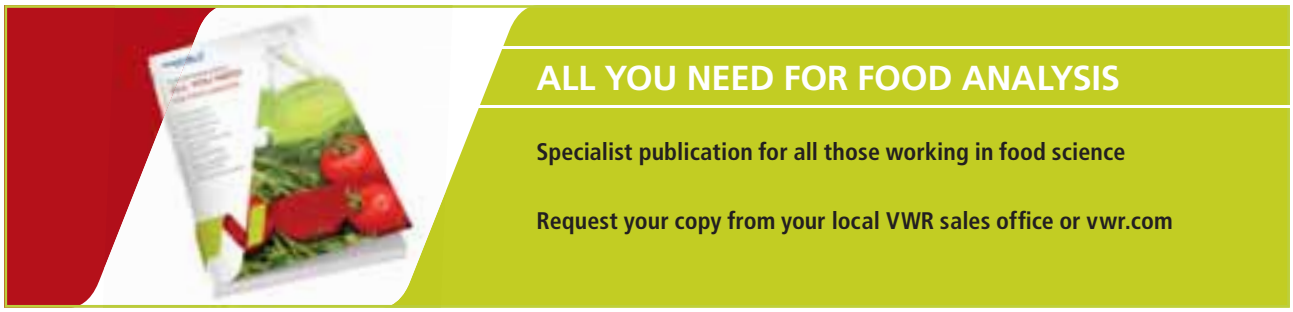
- Furnace tested (type test) in accordance with EN 14470-1
- Fire resistance 90 minutes
- GS approval, CE conformity
- EN 14727 conformity (laboratory furniture)

Ordering information: Supplied without interior equipment packages. Interior equipment packages need to be ordered separately. Please check www.vwr.com or contact VWR for further information.

Delivery information: Delivery prices available upon request.

Description	W×D×H (mm)	W×D×H int. (mm)	Doors	Weight (kg)	Pk	Cat. No.
Combi safety storage cabinet, without interior equipment, model K90.196.120.MF.FWAS, with door open arrest Body light grey and doors: light grey RAL 7035	1200×615×1968	1050×520×1740	2 folding	515	1	**135-1763**
Combi safety storage cabinet, without interior equipment, K-PHOENIX Vol. 2-90, model K90.196.120.MF.FWAC, with door open arrest and door closing system Body light grey and doors: light grey RAL 7035	1200×615×1968	1050×520×1740	2 folding	515	1	**135-1764**

Description	Pk	Cat. No.
Accessories		
Left side: 3 shelves, 1 perforated insert, 1 bottom collecting sump (V=22 l) plastic laminated sheet steel RAL 7035 Right side: 4 pull-out shelves with plastic sump melamine / PP	1	**135-1820**
Left side: 6 drawers plastic laminated sheet steel RAL 7035 Right side: 6 pull-out shelves with plastic sump melamine / PP	1	**135-1821**



Hazardous substances centre
Düperthal

For the correct centralised storage of acids, lye and inflammable substances in working spaces

HSC hazardous substances centre consists of:

- An acid and lye cabinet
- A safety cabinet: CLASSIC S type 90
- A store chamber

Tested safety at a high level including: TÜV-tested according to DIN EN 14727 (laboratory furniture standard), the CLASSIC S safety cabinet classified type 90 in accordance with DIN EN 14470-1, GS/CE mark.

Acid and lye cabinet

For the storage of corrosive liquids such as acids and lye. 2 compartments, with 3 pull out PE trays per compartment. Made from 16 mm thick melamine resin coated decorative panels. Scratch, impact and abrasion resistant inner and outer carcass (RAL 7035 - light grey).

- Convenient storage complete with removable pull out trays
- Quiet, soft closing doors
- Individually lockable wing doors
- Constant air exchange through air grids in the doors and via the exhaust air duct in the rear panel when connected to an industrial exhaust air system
- Venting connection outlet (NW 75 mm) on the top of the cabinet

Safety cabinet, CLASSIC S, type 90

Fire resistance of 90 minutes. The outer carcass is made from powder-coated sheet steel in RAL 7035 (light grey), door front in RAL 1018 (zinc yellow). The inner carcass is made from high quality decorative panels in RAL 7035 (light grey).

- Interior fittings: 1 shelf, 1 bottom tray, 1 perforated sheet insert
- Adjustable base: Can be adjusted from the inside and the outside
- Standard door fixing device with thermal monitoring
- Ventilation at every level

Store chamber

For the storage of non-flammable solids, e.g. toxic substances on two storage levels. Made from 16 mm thick melamine resin coated decorative panels. Scratch and impact proof and abrasion resistant inner and outer carcass in RAL 7035.

- Stored goods visible through glass pane in front
- Soft, quiet closure of the doors
- Separately lockable wing door
- Constant air exchange through air grids in the doors and via the exhaust air system in the rear panel when connected to an industrial exhaust air system
- Venting connection socket (NW 75 mm) on the top of the cabinet

Identification label for acids and lye, and warning symbols included. Delivery is not included, prices available on request.

Description	W×D×H (mm)	Weight (kg)	Pk	Cat. No.
HSC hazardous substances centre including: - 1 acid and lye cabinet with 2 compartments - 1 safety cabinet CLASSIC S, type 90 - 1 store cabinet with 2 storage levels	1195×660×2040	350	1	**135-1451**

Recirculating air filter system and extraction units
asecos

For under bench cabinets

With extraction air monitoring

Recirculating air filter system UFA.20,30:

Avoid complex wall ceiling and roof penetrations and costly extract system. Safe capturing of escaping vapours at the point where they are released or produced.

- High flexibility in choosing the installation location
- Active personal protection through safe capture of harmful vapours with retention in the filter system
- Very low noise, only approx. 39 dB(A)

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- ATEX complient: CE II 3/-G Ex ic nA IIB T4 Gc
- Housing made of sheet-steel plastic laminated
- With multistage filter system and power cord
- Incl. VDE tested extraction and filter monitoring
- Optical and acoustical alarm including potential-free alarm contact
- Dimensions W×D×H (mm): 305×555×210

The plug-in recirculating air filter system UFA.20.30 is capable of retaining solvent vapours (hydrocarbons) permanently up to a filter saturation of more than 99.999 %, under normal operating conditions as well as for a simulated accident in the safety storage cabinet.

A special version of the recirculating air filter system UFA.20.30-AUS is also available to meet the pressure conditions and volumetric flows of safety storage cabinets with a small internal volume. It can be installed on a wall bracket or in a convenient housing unit.

Extraction units:

Ready to plug-in, easy and quick installation. Safe and approved technical ventilation of safety storage cabinets for up to 120-times air change.
Safe capturing of escaping vapours and gases at the point where they are released or produced.

- Very low noise, ideal for direct installation at the workplace
- With connection cable and power cord
- Connecting fitting 75 NW
- Dimensions W×D×H (mm): 200×400×200
- ATEX complient: CE II 3/-G c T4

Without extraction air monitoring: The green LED turns off in case of power breakdown

With extraction air monitoring: Integrated pressure leak detector, the green LED turns off in case of failure and the red LED lights up

For installation on a wall: Incl. installation consoles, flexible hose, hose clips and installation material

The extraction units for under bench cabinets are especially designed for the pressure conditions and volumetric flows of safety storage cabinets with a small internal volume.

Description	Pk	Cat. No.
Extraction unit with extraction air monitoring and potential-free alarm contact	1	**135-1802**
Extraction unit for installation on a wall without extraction air monitoring	1	**135-1804**
Extraction unit for installation on a wall with extraction air monitoring	1	**135-1803**
Extraction unit for installation on a wall with extraction air monitoring and potential-free alarm contact	1	**135-1805**
Extraction unit for under bench cabinets for installation on a wall with extraction air monitoring and potential-free alarm contact	1	**135-1807**
Extraction unit for under bench cabinets for installation on a wall with extraction air monitoring	1	**135-1806**

Chemical storage cabinets for flammable and non flammable liquids L, with type 90 unit
Düperthal

The cabinets are made from sheet steel in RAL 7035 light grey, with galvanised trays

Chemical storage of flammables and water polluting substances. Fire resistant up to 90 minutes for the Type 90 unit.

Ventilation via air vents (Ø 75 mm) in the rear panel of the cabinet

- Four adjustable feet for alignment on uneven floors
- Close using turning handle with security lock, locks on three sides
- High grade security lock for increased protection
- Magnetic holder for A5 sized documentation as per DIN
- Shelves with anti-tilt feature via a locking device

Classification type 90 in accordance with DIN EN 14470-1 of the type 90-unit. Type testing according to DIN EN 14470-1 and DIN EN 14727 (laboratory furniture standard) by recognised test institutes (TÜV Süd) including GS/CE mark.

Delivery information: Delivery is not included, prices are available on request.

Description	W×D×H (mm)	Doors	Configuration	Weight (kg)	Pk	Cat. No.
Chemical storage cabinet for flammable and non flammable liquids L, with type 90 unit	950×600×1950	2 wing doors	with 3 adjustable shelves, galvanised	211	1	**132-0674**
Chemical storage cabinet for flammable and non flammable liquids L, with type 90 unit	950×600×1950	2 wing doors in zinc yellow RAL 1018	with 3 adjustable shelves, galvanised	211	1	**135-1686**

Refrigerated safety cabinets, fireproof, Type 90, COOL line
Düperthal

Wing doors and complete carcass made from sheet steel, powder-coated in light grey RAL 7035. The base of the COOL UTS LK in slate grey RAL 7015.

Fireproof refrigerated safety cabinets, classified type 90 (fire resistant up to 90 minutes), for the storage of flammable liquids in small containers in working spaces.

Cold storage room with separate door/drawer for efficient and economic cooling from + 2 °C to + 10 °C. In case of fire, a thermocouple initiates closing of the doors/drawer. The closure control system ensures self-closing.

The accumulated heat energy must be dissipated via the air vents and exhaust air outlets. The air flow is monitored and in the event of failure the refrigerator is automatically switched off. Optionally, the COOL line is available with an exhaust monitoring unit for emitting warnings. The exhaust connection diameter is 75 mm on the top (COOL XL) and rear (COOL UTS LK) of the cabinet. The cut-off flaps close automatically in the case of fire. The COOL UTS LK further enables a constant floor extraction by the slotted base (height 35 mm). Harmful substances or vapours which collect at the bottom are safely picked up and removed with the exhaust air.

Standard equipotential bonding saddle on the top (COOL XL) or rear (COOL UTS LK) of the cabinet for connection with the earthing in accordance with TRBS 2153, BGR 132 (prevention of ignition hazards). The interior fittings are conductively connected with the equipotential bonding saddle.

- Easy moving, single-handed operation of the doors and drawers which remain open; containers can be inserted and removed using both hands
- The drawers/doors close automatically in the event of a fire

Type testing according to DIN EN 14470-1 and DIN EN 14727 (laboratory furniture standard) by recognised test institutes (TÜV Süd, ift Rosenheim / iBMB Braunschweig). Classification type 90 in accordance with DIN EN 14470-1, GS/CE mark.

Delivery information: Delivery is not included, prices are available on request.

Description	W×D×H (mm)	Doors	Weight (kg)	Pk	Cat. No.
Under bench, refrigerated safety cabinet COOL UTS LK with 1 bottom tray made of PP	1100×595×635	1 drawer	210	1	**132-0646**
Refrigerated, safety cabinet COOL XL with exhaust monitoring unit and ventilator, 5 shelves made from shatterproof glass and 1 bottom tray with perforated sheet insert made from powder-coated sheet steel	895×745×2080	2 wing doors	499	1	**132-0660**
Refrigerated, safety cabinet COOL XL without ventilator (can be connected to the ventilation), with 5 shelves made from shatterproof glass and 1 bottom tray with perforated sheet insert made from powder-coated sheet steel	895×745×2080	2 wing doors	499	1	**132-0661**

Gas cylinder cabinet, type 30, G-CLASSIC-30
asecos

Fire-resistant type 30 safety cabinets for the safe storage of gas cylinders in buildings, in accordance with DIN EN 14470-2.

- Easy installation of equipment and pipes - large interior height (1890 mm) and adjusting aids to compensate for uneven floor
- Access possibilities on the top of the cabinet
- No unauthorised use - doors lockable with cylinder lock (suitable for locking systems)
- Door opening angle max. 180°
- Quickly put into operation - integrated air ducts ready for connection to a technical exhaust system, complete and uniform ventilation of the cabinet interior from the bottom to the top

30 minutes fire rated
Furnace tested (type tested)
GS approval, CE conformal
Labelling in accordance with EN 14470-2

Delivery information: Connection to ventilation not included (available on request). Interior fittings must be ordered separately.
asecos equipment is delivered on a skid/pallet as standard. However, in view of the weight and relative fragility of this product (impact may damage the entire cabinet irreparably if the walls are cracked), it is advisable to select the "delivery to installation site" service, which is delivery to the exact location in the laboratory where the cabinet is to be used. Based on the checklist (to be confirmed at the time the quotation is prepared) and the selection of the option of "delivery to installation site", specialist delivery personnel will use custom handling equipment to install the equipment correctly. "Delivery to installation site" will ensure the guaranteed conditions of the equipment are met. Delivery prices available on request.

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Description	W×D×H (mm)	Doors	Weight (kg)	Pk	Cat. No.
Gas cylinder cabinet G30.205.060, without equipment for 2×50 l bottles, body light grey / doors light grey	600×615×2050	1 left hinged	290	1	**135-1835**
Gas cylinder cabinet G30.205.060, without equipment for 2×50 l bottles, body warning yellow / doors warning yellow	600×615×2050	1 left hinged	290	1	**135-1836**
Gas cylinder cabinet G30.205.060.R, without equipment for 2×50 l bottles, body light grey / doors light grey	600×615×2050	1 right hinged	290	1	**135-1837**
Gas cylinder cabinet G30.205.060.R, without equipment for 2×50 l bottles, body warning yellow / doors warning yellow	600×615×2050	1 right hinged	290	1	**135-1838**
Gas cylinder cabinet G30.205.090, without equipment for 3×50 l bottles, body light grey / doors light grey	900×615×2050	2	340	1	**135-1832**
Gas cylinder cabinet G30.205.090, without equipment for 3×50 l bottles, body warning yellow / doors warning yellow	900×615×2050	2	340	1	**135-1833**
Gas cylinder cabinet G30.205.120, without equipment for 4×50 l bottles, body warning yellow / doors warning yellow	1200×615×2050	2	485	1	**135-1830**
Gas cylinder cabinet G30.205.120, without equipment for 4×50 l bottles, body light grey / doors light grey	1200×615×2050	2	485	1	**135-1829**
Gas cylinder cabinet G30.205.140, without equipment for 4×50 l bottles, body light grey / doors light grey	1400×615×2050	2	545	1	**135-1826**
Gas cylinder cabinet G30.205.140, without equipment for 4×50 l bottles, body warning yellow / doors warning yellow	1400×615×2050	2	545	1	**135-1827**

Description	Pk	Cat. No.
Accessories		
Cabinet with width 1400 mm: Standard interior equipment consisting of: mounting rails, cylinder retainer and rolling ramp, tension belts	1	**135-1828**
Cabinet with width 1200 mm: Standard interior equipment consisting of: mounting rails, cylinder retainer and rolling ramp, tension belts	1	**135-1831**
Cabinet with width 900 mm: Standard interior equipment consisting of: mounting rails, cylinder retainer and rolling ramp, tension belts	1	**135-1834**
Cabinet with width 600 mm: Standard interior equipment consisting of: mounting rails, cylinder retainer and rolling ramp, tension belts	1	**135-1839**

Safety cabinets for pressured gas cylinders, Type G90, SUPREME line

Düperthal

Wing doors and complete carcass made from sheet steel, powder-coated in light grey RAL 7035. Interior fittings made from powder-coated sheet steel.

Safety cabinets for safe storage, provision and emptying of pressurised gas cylinders. Fire resistance of 90 minutes for a temperature increase of 50 Kelvin measured at the neck of the gas cylinder.

Easy installation of the gas fittings due to installation of height adjustable rails. Pipes and cables can be directly laid from the gas fitting through the cabinet roof to the outside. Complicated pipe bends are usually not required and therefore installation time is reduced. The penetrations for pipes and cables are already located on top of the cabinet which has the corresponding drilling pattern on it. An additional seal or holder is not necessary.

The models SUPREME S and SUPREME M come with standard right hand door hinge, optionally available with left hand door hinge (on request).

Ventilation and extraction in the whole of the cabinet due to grilles in the air supply and exhaust air outlets when connected to an industrial exhaust air system. The exhaust connection diameter is 75/110 mm.

- Ergonomic arrangement and ease of movement of the loading ramp
- Pressurised gas cylinders can be secured from accidentally falling over by means of standard integrated retaining belts
- The doors can be opened to an angle of almost 170° and provide optimum freedom to work
- The lock is available with a profile half-cylinder and for integration in lock systems (on request)
- The cut-off flaps close automatically in case of a fire

Type testing according to DIN EN 14470-2 and DIN EN 14727 (laboratory furniture standard) by recognised test institutes (TÜV Süd, ift Rosenheim). Classification type G90 in accordance with DIN EN 14470-2, GS/CE mark.

Delivery information: Delivery is not included, prices are available on request.

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Description	W×D×H (mm)	Doors	Weight (kg)	Pk	Cat. No.
Safety cabinet for gas bottles storage, SUPREME S, with 1 roll in ramp to hinge, 1 cylinder holder with 2 retaining belts, 2 horizontal installation rails	595×610×1444	1 wing door	290	1	**132-0679**
Safety cabinet for gas bottles storage, SUPREME M, with 1 roll in ramp, 1 cylinder holder with 1 retaining belt, 2 horizontal installation rails	595×610×2099	1 wing door	385	1	**132-0920**
Safety cabinet for gas bottles storage, SUPREME L, with 1 roll in ramp, 1 cylinder holder with 3 retaining belts, 2 horizontal installation rails	895×610×2099	2 wing doors	524	1	**135-1731**
Safety cabinet for gas bottles storage, SUPREME XL, with 1 roll in ramp, 1 cylinder holder with 4 retaining belts, 2 horizontal installation rails	1195×610×2099	2 wing doors	655	1	**135-1732**
Safety cabinet for gas bottles storage, SUPREME XXL, with 1 roll in ramp, 1 cylinder holder with 4 retaining belts, 2 horizontal installation rails	1395×610×2099	2 wing doors	740	1	**135-1733**

Storage cabinets, Captair® Ministore 822

Erlab

The Ministore 822 cabinet is a solution for storing frequently used bottles and flasks. With lockable doors.

Delivery information: Requires assembly.

Model	822
Lockable	Yes
Storage capacity	up to 48×1 litre bottles
Tray spillage capacity (l)	2×1
Volume of the treated air (m^3/h)	75

Description	W×D×H (mm)	Pk	Cat. No.
Ministore, with base			
822 B / AS (filter for solvents)	819×435×911	1	**135-9004**
822 B / BE (filter for organic and inorganic acids)	819×435×911	1	**135-9003**
Ministore, wall mounted			
822 C / AS (filter for solvents)	819×372×705	1	**135-9002**
822 C / BE (filter for organic and inorganic acids)	819×372×705	1	**135-9001**

Description	Pk	Cat. No.
Accessories		
Replacement filter AS	2	**135-1736**
Replacement filter BE	2	**135-1471**

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Gas cylinder cabinets, type 90, G-Ultimate

asecos

Body light grey / doors light grey

For the safe storage of gas cylinders

Fire-resistant type 90 safety cabinets for the safe storage of gas cylinders in buildings in accordance with DIN EN EN 14470-2. The fire protection isolation includes also intumescent joint seal. Sheet steel housing with plastic coating in RAL 7035 (light-grey). Security cabinet for storing gas bottles, fire resistant for up to 90 minutes, it can be installed in outdoor areas. The cabinet is connected to the ventilation system via a standard 75 mm exhaust outlet. The internal height is 1858 mm, enabling the exhaust duct and fittings to be installed easily and conveniently. A wide retractable access ramp enables materials to be handled comfortably and safely.

- Easy installation of equipment and pipes – large interior height (1858 mm)
- Access possibilities on the top of the cabinet
- No unauthorised use – doors lockable with cylinder lock (suitable for locking systems)
- Door opening angle max. 180°
- Simple installation – adjusting aids to compensate for uneven floor
- Quickly put into operation – integrated air ducts ready for connection to a technical exhaust system, complete and uniform ventilation of the cabinet interior from the bottom to the top

90 minutes fire rated
Furnace tested (type tested)
GS approval, CE conformal
Labelling in accordance with EN 14470-2
Made in Germany

Ordering information: Cabinets are also available in RAL 1004, body warning yellow / doors warning yellow at no extra costs. Supplied without interior equipment packages. Interior equipment packages need to be ordered separately. Please check www.vwr.com or contact VWR for further information.

Delivery information: Delivery prices available upon request. The gas cylinders and valves are not included in delivery.

Description	W×D×H (mm)	W×D×H int. (mm)	Doors	Weight	Pk	Cat. No.
Gas cylinders storage cabinet (up to 4 cylinders, each holding 50 l), type 90, Model G90,205,140, without interior equipment Body anthracite grey / doors light grey	1400×615×2050	1245×400×1858	2 wing	690	1	**135-1765**
Gas cylinders storage cabinet (up to 4 cylinders, each holding 50 l), type 90, Model G90,205,120, without interior equipment Body anthracite grey / doors light grey	1200×615×2050	1045×400×1858	2 wing	615	1	**135-1766**
Gas cylinders storage cabinet (up to 3 cylinders, each holding 50 l), type 90, Model G90,205,090, without interior equipment Body anthracite grey / doors light grey	900×615×2050	745×400×1858	2 wing	480	1	**135-1767**
Gas cylinders storage cabinet (up to 2 cylinders, each holding 50 l), type 90, Model G90,205,060,2F, without interior equipment Body anthracite grey / doors light grey	600×615×2050	477×425×1858	2 wing	365	1	**135-1768**

PCR Workstation Pro

Housing in stainless steel, front and side panels made of 8 mm Makrolon® protects from UV irradiation

The PCR Workstation Pro offers twin decontamination action by UV inactivation of airborne and surface-bound contaminants and therefore represents an ideal environment for PCR sample preparation and other sensitive protocols.

Large working area for stress free working: providing ample space and the possibility to accommodate bench top equipment, the PCR Workstation Pro allows the combination of several working steps without change of location, thereby also minimising the risk of cross contamination.

- Active decontamination of work surface during non-working time by UV irradiation
- Additional inactivation of aerosol-bound contaminants by shielded UV Air Recirculator during operation
- Contaminant prevention thanks to antimicrobial work surface made of stainless steel
- Function indicator for UV Air Recirculator tube
- Displays operating time of UV tubes to enable well-timed replacement of tubes for constant UV intensity
- Removable shelves provide additional storage space for reaction tubes, pipettes or racks at the rear panel
- 4 internal power outlets for operating lab equipment such as mini centrifuges or vortexers allow the combination of several working steps without interruption of the workflow
- Electromagnetic safety mechanism stops UV irradiation if front panel is opened

TÜV-tested, certified safety ; made in Germany.

Model	PCR Workstation Pro
Lighting	2 UV tubes internal (254 nm, 25 W each) 1 UV tube in UV Air Recirculator (254 nm, 8 W) 1 white light tube internal (15 W)
Shelves	removable
Weight (kg)	48

Description	W×D×H ext. (mm)	Pk	Cat. No.
PCR workstation Pro, worksurface (W×D): 720×540 mm	750×620×780	1	**732-2542**

PCR workstation and UV sterilisation cabinet, Bigneat

When undertaking PCR reactions it is important to protect against contamination by DNA from any source.

UV irradiation is an efficient steriliser, breaking down DNA sequences so that replication cannot occur in a subsequent amplification process.

UV sterilisation cabinet

- Acrylic windows offer exceptionally clear all round vision, and do not allow transmission of UV
- Control system allows the choice of timed UV exposure from 5 - 30 minutes
- Door sensors switch off UV lamps if door flap is opened, ensuring operator safety

PCR workstation

The workstation provides all the features of the UV sterilisation cabinet plus:

- Filtration system delivers air to Class 100 quality
- Auto speed increase on door opening maintains air velocity speed to 0.45 m/s at the workstation front
- Electronic filter saturation indicator
- Fan noise level better than 50 dB(A)

The PCR workstation additionally protects against contamination by bathing the PCR apparatus in sterile air and limiting risk of contamination from the operator's arms, or from any equipment bought into the otherwise sterile environment. A positive pressure ensures that there is no ingress of airborne contaminants from the surrounding laboratory environment.

Power supply: 230 V, AC, 50 Hz, 5 Amp, 1 Ø (on request 110 V, AC, 60 Hz, 8 Amp, 1 Ø).

Delivery information: Both models are supplied with base tray, UV lamps, 15 W white lighting (operated from an external switch) and corner shelves. Please contact us for details on other options, including mobile stands, installation and service options.

Description	W×D×H ext. (mm)	W×D×H int. (mm)	Pk	Cat. No.
UV sterilisation cabinet, with UV and fluorescent lamps	802×549×863	730×489×699	1	**135-0655**
PCR workstation, with UV and fluorescent lamps, pre-filter and HEPA filters included	802×549×998	730×489×699	1	**135-0656**

Optimizer PCR Workstation™
C.B.S. Scientific

Acid-resistant black formica or durable stainless steel work surface, tempered safety glass fascia

The Optimizer PCR Workstation™ is designed to protect against contamination in sensitive PCR amplification reactions in two ways. Firstly, UV irradiation of the working area prior to use blocks replication of contaminating DNA sequences by causing adjacent pyrimidines to undergo dimerisation. Secondly, it protects against cross or airborne contamination by limiting exposure of the experimental set-up to the open laboratory environment. Available in three sizes, each with plenty of interior space for PCR reaction supplies and thermal cycler. A single electrical outlet and two fluorescent lamps are mounted in the stainless steel ceiling. Each workstation is equipped with a 12-hour countdown timer with time-hold position.

- Access doors close to prevent contamination, and slide into a storage compartment in the base during experimental procedures
- Hinged glass fascia can be easily lifted out of the way for placement and removal of a thermal cycler, or other large equipment
- Dual fluorescent lamps provide work surface with excellent visibility
- Dual UV bulb option delivers twice the intensity of UV light and helps to irradiate areas that might otherwise be inaccessible, particularly recommended when the Workstation is being used to decontaminate apparatus and reagents
- Safety interlock automatically shuts off UV light when hood is opened

Description	W×D×H ext. (mm)	Pk	Cat. No.
PCR Workstation™ with single UV light			
Optimizer PCR Workstation™, small size (UK-plug), single UV light, black formica worksurface	610×610×760	1	**730-0788**
Optimizer PCR Workstation™, medium size (UK-plug), single UV light, black formica worksurface	610×610×910	1	**730-0790**
PCR Workstation™ with dual UV light			
Optimizer PCR Workstation™, small size (UK-plug), dual UV light, black formica worksurface	610×610×760	1	**730-0789**
Optimizer PCR Workstation™, medium size (UK-plug), dual UV light, black formica worksurface	610×610×910	1	**730-0791**
Optimizer PCR Workstation™, large size (UK-plug), dual UV light, black formica worksurface	610×610×1210	1	**730-0793**
PCR Workstation™ with single UV light and safety interlock			
Optimizer PCR workstation (UK-plug), single UV light, dual door with safety interlock, black formica worksurface	610×610×1220	1	**135-1993**

UV PCR cabinets/workstations
UVP

UV and UV HEPA PCR equipment brings together UV irradiation and antimicrobial coated stainless steel to combat PCR contamination. Two sizes are available - the PCR cabinet models feature a smaller work area than the workstation models. The workstation is designed for placement of large instruments on the work area or tubes, flasks and pipettes on the two removable shelves. Overhead white light brightly illuminates the work area. Four (on workstations) or two (on cabinets) built-in power outlets allow operation of equipment within the chamber.

UV sterilising PCR equipment creates an ideal environment for preparing PCR and other samples by reducing the chance of sample contamination. Potential PCR contamination is controlled with built-in, high intensity, 254 nm UV tubes for inactivation of DNA and RNA between experiments.

- Antimicrobial coated stainless steel reduces bacterial growth
- A safety shut-off switch automatically turns the ultraviolet light off when the door is open
- Built-in power outlets allow operation of equipment for use in PCR applications
- Workstation includes a 30 minute timer to control UV decontamination

UV HEPA PCR systems

UV HEPA PCR models feature a four-stage filter assembly plus UV to eliminate contamination: Pre-filter captures large dust particles; carbon filter (activated charcoal) eliminates gases, odour, smoke and also reduces ozone to improve microarray data quality; HEPA (high efficiency energy particulate) filter blocks particles down to 0.3 microns; and the ZerOzone catalyst grid blocks ozone. A very gentle downwards air pressure creates a working environment that blocks entry of unwanted contaminants on PCR samples.

Delivery information: The product is delivered in kit form.

Model	UV1 PCR Cabinet	UV2 PCR Cabinet	UV3 HEPA PCR Cabinet	UV1 PCR Workstation	UV2 PCR Workstation	UV3 HEPA PCR Workstation
Filters	-		Pre-filter Carbon filter HEPA filter ZerOzone catalyst grid	-		Pre-filter Carbon filter HEPA filter ZerOzone catalyst grid
Shelves	2 (small)			2		2
UV lamp	254 nm / 8 watt (1 UV source)	254 nm / 8 watt (2 UV sources)	254 nm (3 UV sources)	254 nm / 25 watt (1 UV source)	254 nm (2 UV sources)	254 nm (3 UV sources)
W×D×H ext. (mm)	544×610×729		544×610×826	737×610×729		737×610×826

Description	Pk	Cat. No.
UV PCR cabinets		
UV1 PCR cabinet	1	**132-0436**
UV2 PCR cabinet	1	**132-0435**
UV3 HEPA PCR cabinet	1	**132-0434**

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Description	Pk	Cat. No.
UV PCR workstations		
UV1 PCR workstation	1	**732-0298**
UV2 PCR workstation	1	**132-0438**
UV3 HEPA PCR workstation	1	**132-0437**

Description	Pk	Cat. No.
Accessories		
Panel, acrylic, front bottom inside, for PCR cabinets (0.125" OP-3)	1	**135-1916**
PCR table, stainless steel top, includes locking castors	1	**132-0742**
Replacement carbon filter for UV3 HEPA PCR cabinet	1	**132-0741**
Replacement HEPA filter assembly	1	**132-0739**
Replacement pre-filter assembly	1	**132-0740**

Biological safety cabinets, Class II, BioVanguard Green Line

Telstar

BioVanguard Green Line is a Class II cabinet range which offers simplicity, robustness and high reliability and ensures the highest level of protection for the operator, product and environment, minimising the hazards inherent with working with agents assigned to biosafety levels 1, 2 and 3. It is designed for microbiological research with biological agents (e.g. bacteria, viruses, etc) and allergens.

BioVanguard is equipped as standard with:
- epoxy coated exterior
- stainless steel interior
- stainless steel one piece or segmented worktop
- prefilter and drip tray
- 2× electrical sockets

The stainless steel worktop with V-shaped air slits provides superior safety by preventing blockages to the inflow and contamination of operator's sleeves. The front window is laminated safety glass and can be lifted completely, opening up the entire work area for easy cleaning and/or (un)loading large items.

- Easy to install, easy to operate, easy to clean, easy to decontaminate and low maintenance
- Microprocessor control with automatic compensation for filter clogging
- User friendly LCD control panel, positioned in an angle, showing the operator all relevant functions and alarm (visual and audible) at a glance
- Ergonomic epoxy coated aluminium arm rest contributes to comfortable working position of the operator
- Two independent blowers and anemometers to control chamber airflow and inlet/exhaust flow
- Exhaust and chamber HEPA filters H-14 of efficiency 99.995 % MPPS (99.999 % DOP)
- RS232 and RS485 connection

Available with manual or electrical windows.

BioVanguard series is designed and manufactured according to international biosafety standards EN12469: Class II, NSF49: Class II Type A2, JIS K 3800: Class II Type A2 and PIC's. The working area is classified as ISO 14644: Class 5 and GMP Annex 1: Class A.

Model	BioVanguard 3	BioVanguard 4	BioVanguard 5	BioVanguard 6
Average air velocity	0.36 m/s			
Lighting system (lux)	950	1150	800	1350
Noise level (dB(A))	52	51	52	54
Power rating (kW)	0.135	0.156	0.199	0.271
External W×D×H (mm)	1072×794×1602	1374×794×1602	1679×794×1602	1984×794×1602
Internal W×D×H (mm)	875×550×744	1180×550×744	1485×550×744	1790×550×744
Weight (kg)	200	215	275	300
Filters	Prefilter (EN 779): G3 Downflow HEPA filter (EN 1822): H14 Exhaust HEPA filter (EN 1822): H14			

Description	Pk	Cat. No.
With manual sliding windows		
Biological safety cabinet Class II A, 900 mm, BioVanguard 3, with manual sliding window	1	**135-1705**
Biological safety cabinet Class II A, 900 mm, BioVanguard 3, with manual sliding window and segmented worktop	1	**135-1707**
Biological safety cabinet Class II A, 900 mm, BioVanguard 3, with manual sliding window and package (UV, 1x gas, 1x vacuum)	1	**135-1706**
Biological safety cabinet Class II A, 900 mm, BioVanguard 3, with manual sliding window, package (UV, 1x gas, 1x vacuum) and segmented worktop	1	**135-1704**
Biological safety cabinet Class II A, 1200 mm, BioVanguard 4, with manual sliding window	1	**135-1692**
Biological safety cabinet Class II A, 1200 mm, BioVanguard 4, with manual sliding window and segmented worktop	1	**135-1711**
Biological safety cabinet Class II A, 1200 mm, BioVanguard 4, with manual sliding window and package (UV, 1x gas, 1x vacuum)	1	**135-1708**
Biological safety cabinet Class II A, 1200 mm, BioVanguard 4, with manual sliding window, package (UV, 1x gas, 1x vacuum) and segmented worktop	1	**135-1712**
Biological safety cabinet Class II A, 1500 mm, BioVanguard 5, with manual sliding window	1	**135-1715**
Biological safety cabinet Class II A, 1500 mm, BioVanguard 5, with manual sliding window and segmented worktop	1	**135-1719**
Biological safety cabinet Class II A, 1500 mm, BioVanguard 5, with manual sliding window and package (UV, 1x gas, 1x vacuum)	1	**135-1716**
Biological safety cabinet Class II A, 1500 mm, BioVanguard 5, with manual sliding window, package (UV, 1x gas, 1x vacuum) and segmented worktop	1	**135-1720**
Biological safety cabinet Class II A, 1800 mm, BioVanguard 6, with manual sliding window	1	**135-1723**

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Description	Pk	Cat. No.
With manual sliding windows		
Biological safety cabinet Class II A, 1800 mm, BioVanguard 6, with manual sliding window and segmented worktop	1	**135-1727**
Biological safety cabinet Class II A, 1800 mm, BioVanguard 6, with manual sliding window and package (UV, 1x gas, 1x vacuum)	1	**135-1724**
Biological safety cabinet Class II A, 1800 mm, BioVanguard 6, with manual sliding window, package (UV, 1x gas, 1x vacuum) and segmented worktop	1	**135-1728**
With electrical sliding windows		
Biological safety cabinet Class II A, 1200 mm, BioVanguard 4, with electrical sliding window	1	**135-1709**
Biological safety cabinet Class II A, 1200 mm, BioVanguard 4, with electrical sliding window and segmented worktop	1	**135-1713**
Biological safety cabinet Class II A, 1200 mm, BioVanguard 4, with electrical sliding window and package (UV, 1x gas, 1x vacuum)	1	**135-1710**
Biological safety cabinet Class II A, 1200 mm, BioVanguard 4, with electrical sliding window, package (UV, 1x gas, 1x vacuum) and segmented worktop	1	**135-1714**
Biological safety cabinet Class II A, 1500 mm, BioVanguard 5, with electrical sliding window	1	**135-1717**
Biological safety cabinet Class II A, 1500 mm, BioVanguard 5, with electrical sliding window and segmented worktop	1	**135-1721**
Biological safety cabinet Class II A, 1500 mm, BioVanguard 5, with electrical sliding window and package (UV, 1x gas, 1x vacuum)	1	**135-1718**
Biological safety cabinet Class II A, 1500 mm, BioVanguard 5, with electrical sliding window, package (UV, 1x gas, 1x vacuum) and segmented worktop	1	**135-1722**
Biological safety cabinet Class II A, 1800 mm, BioVanguard 5, with electrical sliding window	1	**135-1725**
Biological safety cabinet Class II A, 1800 mm, BioVanguard 6, with electrical sliding window and segmented worktop	1	**135-1729**
Biological safety cabinet Class II A, 1800 mm, BioVanguard 6, with electrical sliding window, package (UV, 1x gas, 1x vacuum) and segmented worktop	1	**135-1730**
Biological safety cabinet Class II A, 1800 mm, BioVanguard 6, with electrical sliding window and package (UV, 1x gas, 1x vacuum)	1	**135-1726**

Microbiological safety cabinets, Class II, EF and EF/B

Telstar

EF

EF/B

Microbiological safety cabinets provide maximum safety for the user, product and environment. Suitable for all applications in the fields of molecular biology, biotechnology, pharmaceuticals and medical research.

Made from high quality materials, they are extremely quiet running; the noise level is ±56 dB(A). Easy to clean, all models are equipped with a combination sliding/tilting window with gas pressure dampers. The EF/B is also equipped with a HEPA pre-filter. It can be stored neatly under the worktop; it prolongs the service life of the HEPA filter and increases safety. The membrane keypad is mounted on the front panel for all important information. These models meet all ergonomic requirements with integral armrests, V-shaped openings on the worktop, an integral footrest and an inclined front screen.

- The window can be hermetically sealed, which is very important for gas disinfection
- All models feature epoxy coated exterior and stainless steel interior
- Conveniently designed for maintenance, the HEPA filter is replaced simply by removing it from the front panel
- Alarm function (wrong air velocity or incorrect window position) directly in the user's line of sight
- HEPA filter, filtration efficiency: 99.999 % for particle size 0.3 µm (type H14 conforms to EN 1822), optional pre-filter (type G3 conforms to EN 779)

Types EF and EF/B conform to EN 12469, type EF/B also conforms to DIN 12980 (2004-02)

Delivery information: Delivery, installation and commissioning prices are available on request.

Model	EF 4	EF 5	EF 6	EF/B 4	EF/B 6
External W×D×H (mm)	1333×844×1552	1638×844×1552	1943×844×1552	1333×844×1552	1943×844×1552
Internal W×D×H (mm)	1190×605×725	1495×605×725	1800×605×725	1190×605×725	1800×605×725
Exhaust air volume (m^3/h)	400	500	600	400	600
Power rating (kW)	0.7	1.0	1.1	0.7	1.1
Weight (kg)	255	275	315	300	380

Description	Pk	Cat. No.
EF 4	1	**135-0719**
EF 5	1	**135-0720**
EF 6	1	**135-0721**
EF/B 4	1	**135-1499**
EF/B 6	1	**135-0723**

Description	Pk	Cat. No.
Accessories		
Base frame for EF 4, epoxy coated, working height 900 mm	1	**135-0058**
Base frame for EF 5, epoxy coated, working height 900 mm	1	**135-0059**
Base frame for EF 6, epoxy coated, working height 900 mm	1	**135-0060**
Base frame for EF/B 4, epoxy coated, working height 900 mm	1	**135-0104**

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Description	Pk	Cat. No.
Accessories		
Base frame for EF/B 6, epoxy coated, working height 900 mm	1	**135-0105**
UV lamp on armature on the rear wall (with hour counter and timer), EF/S	1	**135-1536**
Vacuum tap, variable position	1	**135-0725**

Microbiological safety cabinets, Class II, Safe 2020

Thermo Scientific

Safe 2020 Class II cabinets are designed to deliver maximum safety, comfort and convenience. This biological safety cabinet can be used wherever protection is of paramount importance in safety levels I, II and III, including research, pharmaceutical quality control labs, pharmacies, and clinics/hospitals. Combined with the Night-Set-Back mode (reduced blower speed when the window is closed), the Safe 2020 consumes hundreds of kilowatts less energy with lower heat output, than competing cabinets.

Innovative construction; Its frameless front sash and side glass windows offer an unobstructed view of the complete work area from all angles. The scratch-free, high quality stainless steel work surfaces are easy to clean or to autoclave. The indented work modules easily trap spilled liquids. The aerosol-tight window sealing offers additional protection when cabinet is in stand-by mode.

The SmartFlow™ technology maintains constant airflow during normal filter loading or temporary air flow obstruction from foreign objects. The pressure sensor monitoring ensures safe air flow across the entire work surface. An independent alarm system immediately alerts users of any air flow obstruction.

- Superior personnel and product protection with best-in-class air flow and filter technology
- Exceptionally comfortable ergonomic design prevents user fatigue and promotes safe working habits
- Maximised energy efficiency for environmental protection and significant cost savings
- Sash opening: 20 cm working height; can be fully opened to 77.3 cm for thorough cleaning

These cabinets comply with stringent regulatory standards and are certified to EN 12469.

Model	Safe 2020 0.9	Safe 2020 1.2	Safe 2020 1.5	Safe 2020 1.8
Exhaust air volume (m^3/h)	288	386	483	580
Lighting system (lux)	>800	>850	>1250	>1300
Noise level (dB(A))	56		58	
Power rating (kW)	0.16	0.20	0.265	0.34
External W×D×H (mm)	1000×800×1586	1300×800×1586	1600×800×1586	1900×800×1586
Internal W×D×H (mm)	900×465×780	1200×465×780	1500×465×780	1800×465×780
Weight (kg)	170	200	230	280
Filters	HEPA H14 EN 1822, 99.995% at the most penetrating particle size (MPPS)			

Description	Pk	Cat. No.
Microbiological safety cabinet, Safe 2020, 0.9 m	1	**135-1322**
Microbiological safety cabinet, Safe 2020, 1.2 m	1	**135-1323**
Microbiological safety cabinet, Safe 2020, 1.5 m	1	**135-1324**
Microbiological safety cabinet, Safe 2020, 1.8 m	1	**135-1325**

Description	Pk	Cat. No.
Accessories		
Fixed height floor stand, 750 mm working height, for 1.2 m cabinet	1	**135-6832**
Fixed height floor stand, 750 mm working height, for 1.5 m cabinet	1	**135-1319**
Fixed height floor stand, 750 mm working height, for 1.8 m cabinet	1	**135-6833**
Manually adjustable floor stand, 750 to 950 mm working height in 50 mm increments, for 1.2 m cabinet	1	**135-1316**
Manually adjustable floor stand, 750 to 950 mm working height in 50 mm increments, for 1.5 m cabinet	1	**135-1321**
Manually adjustable floor stand, 750 to 950 mm working height in 50 mm increments, for 1.8 m cabinet	1	**135-1317**
Additional exhaust HEPA filter	1	**135-1326**

Biological safety cabinets, Class II, Herasafe™, KS series
Thermo Scientific

These biological safety cabinets offer high levels of safety for users and product. They are ideal for use in fields such as biotechnology, microbiology, research, laboratories, pharmacies and hospitals. They are compliant with safety levels 1 - 3 as required in microbiology, biotechnology and gene technology applications.

With advanced internal airflow and motor technology, HERAsafe® KS cabinets offer optimal energy efficiency, operation and serviceability. At full speed the motors consume 60% less energy than standard cabinets. To further conserve energy, the intelligent speed control automatically reduces blower speed to 30% when the window is closed. This technology extends HEPA filter life while ensuring a sterile working environment and saves energy to minimise operating costs.

Their ergonomic design allows unobstructed, all-round visibility with frameless front window and transparent glass side windows. The front opening is over 250 mm to enable convenient handling. Corners on the inside are rounded and windows can be folded up completely for easy cleaning. Air supply and exhaust is controlled automatically by the ventilation system. The display on the back wall of the workspace is placed at eye level, so that all parameters and operating functions can be monitored comfortably. Optional connections for gas or other media are provided on the side or rear walls. These cabinets are equipped with ergonomically designed arm rests.

- Aerosol-tight electric front window provides ease of sealing for fumigation and a clean sterile environment when the window is closed
- Sash opening: 254 mm
- Main and exhaust HEPA filter 99,999% efficiency for 0.3 µm particles (type H14 according to EN 1822) pre-stage filter 85% efficiency for 5 µm particles

Certified according to EN NF 12469.

Package includes: Each cabinet is supplied with two electrical sockets, one on each side wall and 4 ports for connection of utility taps.

Ordering information: A wide selection of support stands and alternative work surfaces, which also provide the option of using a balance, UV lamps, sockets, gas connections and other components are available to adapt the cabinets to your needs.

Delivery information: Delivery, installation and commissioning prices available on request. Please contact VWR for details.

Model	KS9	KS12	KS15	KS18
Exhaust air volume (m^3/h)	380	500	625	750
Lighting system (lux)	>1000			
Noise level (dB(A))	57		58	
Power rating (kW)	0.4		0.8	
External W×D×H (mm)	1000×800×1645	1300×800×1645	1600×800×1645	1900×800×1645
Internal W×D×H (mm)	900×627×780	1200×627×780	1500×627×780	1800×627×780
Filters	HEPA H14 EN 1822, 99.999% at 0.3 µm particle size			
Weight (kg)	190	240	290	340

Description	Pk	Cat. No.
Class II cabinet, HERAsafe™ KS9	1	**135-6029**
Class II cabinet, HERAsafe™ KS12	1	**135-6030**
Class II cabinet, HERAsafe™ KS15	1	**135-6031**
Class II cabinet, HERAsafe™ KS18	1	**135-6032**

2 year warranty

Microbiological safety cabinet, Class II, MSC-Advantage™
Thermo Scientific

This biological safety cabinet combines smart design and extraordinary value with best-in-class energy efficiency, reliability and usability. The advanced design of the MSC-Advantage™ biological safety cabinet improves overall operation and maintenance, maximises safety and optimises service and clean-up. With advanced internal airflow and motor technology, MSC-Advantage™ cabinets offer optimal energy efficiency, operation and serviceability. At full speed the motors consume 60% less energy than standard cabinets. To further conserve energy, the intelligent speed control automatically reduces blower speed to 30% when the window is closed. This technology extends HEPA filter life while ensuring a sterile working environment and saves energy to minimise operating costs.

The front windows of the MSC-Advantage™ cabinet range drop within their frames to enable full access to the upper inside window surfaces. Furthermore, all removable components, including the HEPA filters, can be changed from the front, minimising filter replacement time. Smooth components are used throughout the cabinet, virtually eliminating the risk of injury during routine cleaning, servicing and maintenance procedures.

- Simple to operate microprocessor control displays essential operational, safety and service data
- Exclusive Performance Factor monitoring system advises when cabinet service is needed
- SmartPort: TÜV-approved, safe, clean method for vacuum tubing and cables routing through the side wall of the biological safety cabinet
- Flexible divided stainless steel work tray is easily removable for cleaning and autoclaving
- Ergonomic design; sloped front for enhanced comfort and reduced operator fatigue, reduced noise level, spacious work area and comfortable armrests

Certified to EN 12469 by TÜV Nord

Delivery information: Delivery, installation and commissioning prices available on request. Other accessories and options are available, please contact VWR for details.

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Model	MSC-Advantage™ 0.9	MSC-Advantage™ 1.2	MSC-Advantage™ 1.5	MSC-Advantage™ 1.8
Exhaust air volume (m^3/h)	379	505	632	798
Lighting system (lux)	1200			
Noise level (dB(A))	55		59	
Power rating (kW)	0.15	0.2	0.28	0.34
External W×D×H (mm)	1000×800×1522	1300×798×1550	1600×800×1522	1900×798×1550
Internal W×D×H (mm)	900×630×780	1200×465×780	1500×630×780	1800×465×780
Weight (kg)	170		230	
Filters	HEPA H 14 EN 1822, 99.99% at 0.3µm particle size			

Description	Pk	Cat. No.
MSC-Advantage™ 0.9 (electrical sockets: one double, right side)	1	**135-1327**
MSC-Advantage™ 1.2 (electrical sockets: one double, right side)	1	**135-6834**
MSC-Advantage™ 1.5 (electrical sockets: two double, left and right side)	1	**135-1328**
MSC-Advantage™ 1.8 (electrical sockets: two double, left and right side)	1	**135-6835**

Description	Pk	Cat. No.
Accessories		
Fixed height floor stand, 750 mm working height, for 0.9 m cabinet	1	**135-1318**
Fixed height floor stand, 750 mm working height, for 1.2 m cabinet	1	**135-6832**
Fixed height floor stand, 750 mm working height, for 1.5 m cabinet	1	**135-1319**
Fixed height floor stand, 750 mm working height, for 1.8 m cabinet	1	**135-6833**
Manually adjustable floor stand, 750 to 950 mm working height in 50 mm increments, for 0.9 m cabinet	1	**135-1320**
Manually adjustable floor stand, 750 to 950 mm working height in 50 mm increments, for 1.2 m cabinet	1	**135-1316**
Manually adjustable floor stand, 750 to 950 mm working height in 50 mm increments, for 1.5 m cabinet	1	**135-1321**
Manually adjustable floor stand, 750 to 950 mm working height in 50 mm increments, for 1.8 m cabinet	1	**135-1317**
UV light option, factory installed	1	**135-6040**
Additional exhaust HEPA filter	1	**135-1326**

Microbiology safety cabinets, Class II, Bio II Advance
Telstar

The Bio II Advance has been developed to maximise the convenience, comfort and safety for the user, the sample and the environment whilst minimising the cabinet dimensions. Bio II Advance achieves the best balance between external dimensions and useful working area: Only 759 mm in width and 1260 mm in height, the Bio II Advance provides a working volume of 340 dm^3. This range has been designed to provide the best biological Class II safety cabinet features available while offering practical ergonomics, silent working conditions, easy cleaning, less energy consumption and easy service and maintenance.

Bio II Advance Eco Mode puts the cabinet into stand by: The sample remains protected inside the cabinet while the user is performing other tasks, thereby saving energy, decreasing the cabinet's heat and reducing the rate of filter clogging. This saves energy, reduces sound level and heat emission.

Innovative and unique 4F System (Fast, Friendly and eFFicient) is a Telstar patented system for filter replacement. Filters are easily accessible from the front of the cabinet and using a unique fast clamping/unclamping device the time required to replace the filters is reduced to five minutes.

The cabinets are made of a 304L stainless steel chamber with rounded angles and hardened security glass sides. The front window is anti-reflective with UV protection. It is fully sealed and prevents user exposure to escaped aggressive substances, the sample from ambient contamination and maintains cleanliness of the internal surface of the window.

- Innovative and original sliding window, designed to be easily adjusted at a 200 mm working aperture with only one hand
- Control panel with international colour code to indicate cabinet status; the main screen shows the level of filter clogging and the laminar speed flow
- Automatic control by microprocessor continuously guarantees the correct air speed thereby minimising power consumption and noise
- The front window allows complete and comfortable access to the working chamber, making cleaning easy and making it possible to enter large objects and accessories into the working chamber
- The working surface is divided into sections which allow cleaning and even sterilisation in an autoclave
- Very quiet, with a sound level of only 58 dB(A)

The Bio II Advance cabinets are independently tested and certified by TÜV Nord, the main certification body in Europe, to guarantee conformity to standard EN 12469 for Class II biological safety cabinets (30% exhaust, 70% recirculation unit). The Bio II Advance is specified for working with levels 1, 2 and 3 pathogenic agents. It also conforms to the main requirements NSF/ANSI 49 (Class II A2), JIS K3800, SFDA YY-0569 and AS2252.

Model	Bio II Advance 3	Bio II Advance 4	Bio II Advance 6
Exhaust air volume (m^3/h)	294	403	620
Lighting system (lux)	≥1000		
Noise level (dB(A))	57		
Power rating (kW)	1.5	1.6	2.3
External W×D×H (mm)	1049×759×1260	1354×759×1260	1964×759×1260
Internal W×D×H (mm)	954×605×587	1259×605×587	1869×605×587
Weight (kg)	180	200	280
Filters	HEPA H14 filters according to EN 1822: efficiency of 99.995% MPPS and 99.999 % DOP		

Description	Pk	Cat. No.
Bio II Advance 3	1	**135-1382**
Bio II Advance 4	1	**135-1372**
Bio II Advance 6	1	**135-1375**

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Description	Pk	Cat. No.
Accessories		
External exhaust extra fan	1	**135-1364**
Canopy connection enables safe coupling to a duct	1	**135-1371**
Vacuum kit connection	1	**135-1373**
Gas kit connection	1	**135-1374**
UV kit for Bio II Advance 3	1	**135-1383**
UV kit for Bio II Advance 6	1	**135-1376**
UV tube for Bio II Advance 3	1	**135-1378**
Base frame without castors, adjustable height, 720 mm and 1075 mm	1	**135-1379**
Base frame, with castors, height 770 mm, for Bio II Advance 3	1	**135-1368**
Base frame, without castors, height 770 mm, for Bio II Advance 3	1	**135-1367**
Base frame, with castors, height 770 mm, for Bio II Advance 4	1	**135-1366**
Base frame, without castors, height 770 mm, for Bio II Advance 4	1	**135-1365**
Base frame, with castors, height 770 mm, for Bio II Advance 6	1	**135-1370**
Base frame, without castors, height 770 mm, for Bio II Advance 6	1	**135-1369**

Microbiology safety cabinets, Class II, BioUltra

Telstar

BioUltra are Class II cabinets, aimed to provide protection of the operator, samples and environment. Suitable for pathogenic agents of levels 1, 2 and 3 in the various fields of pharmaceutical, academic research centres, biotechnology, hospital, medical laboratories and Q.A. laboratories etc. The working chamber with rounded corners is made of stainless steel 304L and can be completely isolated from the outside.

- Motorised window with fully closed position to avoid the need of a night door
- Leaktightness ensured even when the power is off, alarm is activated in case of seal failure
- Turbo exhaust key reinforces the operator protection when needed
- Visible command/control panel with large LCD screen
- Two level password protection replaces keyswitch to prevent unauthorised use or service

Conform to standards EN 12469-2000 and meet NSF 49 (class II type A2/B3) and BS 5726:25005 requirements.

Filters HEPA/ULPA H14 : Efficiency >99.999% (DOP) / 99.995 (MPPS EN 1822)

Model	BioUltra 4	BioUltra 6
Exhaust air volume (m^3/h)	540	815
Flow rate (m^3/h)	995	1500
Average air velocity	0.40	
Lighting system (lux)	>1000	>1100
Noise level (dB(A))	<56	<60
Power rating (kW)	2.1/9.1	
External W×D×H (mm)	1480×890×1640	2090×890×1640
Internal W×D×H (mm)	1090×560×650	1800×560×650
Weight (kg)	274	369

Description	Pk	Cat. No.
Class II cabinet, BioUltra 4	1	**135-0575**
Class II cabinet, BioUltra 6	1	**135-0571**

Description	Pk	Cat. No.
Accessories		
One piece stainless steel working surface BioUltra 4	1	**135-0589**
One piece stainless steel working surface BioUltra 6	1	**135-0574**
Support frame 770 mm height, BioUltra 4	1	**135-0584**
Support frame 770 mm height, BioUltra 6	1	**135-0585**
Support frame 900 mm height, BioUltra 4	1	**135-0587**
Support frame 900 mm height, BioUltra 6	1	**135-0588**

SELECTED FOR YOU

Mobile ductless fume hoods with modular filtration, Captair® Flex™

Erlab

Based on a new modular design, the Captair® Flex™ range ensures optimal operator protection by being able to adapt itself to the handling of liquid and solid chemicals, separately or combined, in laboratories and cleanrooms. Captair® Flex™ offers unprecedented flexibility by fulfilling the environmental and economic needs of our modern world. The combination of molecular and particulate filtration technologies allows for the configuration of a single unit in order to meet the protection needs of laboratories.

Since no ductwork is required, a Captair® Flex™ filtered enclosure totally eliminates the direct discharge of pollutants into the atmosphere and therefore contributes to the protection of the environment. Furthermore, a Captair® Flex™ filtered enclosure does not generate any pollution linked to energy production unlike a traditional ducted fume hood.

The design of these fume hoods allows the user to work in a sitting or standing position without tiring. On the front, the arm openings allow the operator to easily work within the entire area of the enclosure, and to have easy access to all inserted elements.

- High level user protection
- No toxic release into the atmosphere
- No ductwork cost
- High energy savings
- Mobile/easy to relocate

Types of carbon filters:

AS: For organics vapours

BE+: Polyvalent for acid and organic vapours

F: For formaldehyde vapours

K: For ammonia vapours

HP: H14 HEPA filter for powders

Compliant with the AFNOR NF X 15-211 : 2009 standard requirements.

Remark: The Midcap version does not have internal lighting, sampling port, timer or flow monitor. For the Midcap version, please select between filters for liquid chemicals or powder handlings.

Ordering information: Other models are available on request. Please contact us in order to complete the investigation questionnaire ValiQuest®. Erlab will recommend the most appropriate unit, define the adapted filtration column and enclosure design to ensure complete protection for the user.

Delivery information: Delivery, installation and commissioning prices available on request. Please note that these cabinets are delivered unassembled. For more details please contact your local VWR sales office.

Description	W×D×H ext. (mm)	W×D×H int. (mm)	Pk	Cat. No.
Captair® Flex™ M series				
Captair® MIDCAP M321 1C + filter GF4/AS	800×630×1160/1345*	764×543×866	1	**135-1113**
Captair® MIDCAP M321 1C + filter GF4/BE	800×630×1160/1345*	764×543×866	1	**135-1447**
Captair® M321 1P + filter GF4/HP	800×630×1160/1345*	764×543×866	1	**135-1139**
Captair® M321 1C + filter GF4/BE	800×630×1160/1345*	764×543×866	1	**135-1263**
Captair® M391 1P + filter GF4/HP	1000×630×1160x1345*	965×522×860	1	**135-1561**
Captair® M391 1C + filter GF4/AS	1000×630x1160×1345*	965×522×860	1	**135-1108**
Captair® M391 1C + filter GF4/BE	1000×630×1160x1345*	965×522×860	1	**135-1264**
Captair® M481 1P + Filter GF4/HP	1275×630×1160/1345*	1240×540×860	1	**135-1735**
Captair® M481 1C + Filter GF4/AS	1275×630×1160/1345*	1240×540×860	1	**135-1114**
Captair® Flex™ XLS series				
Captair® XLS392 1C + filter GF4/AS	1000×800×1315/1495*	965×695×1040	1	**135-1109**
Captair® XLS483 1C + filter GF4/AS	1275×800×1315/1495*	1175×695×1040	1	**135-1110**
Captair® XLS633 1C + filter GF4/AS	1600×800×1315/1495*	1566×695×1040	1	**135-1111**
Captair® XLS714 1C + filter GF4/AS	1800×800×1315/1495*	1765×695×1040	1	**135-1112**

Description	Pk	Cat. No.
Accessories		
Filter GF4/HP	1	**135-1150**
Filter GF4/AS	1	**135-0734**
Filter GF4/BE+	1	**135-0735**
Filter GF4/K	1	**135-0736**
Filter GF4/F	1	**135-0738**
Retention tray + worksurface N°1 - Midcap M321/M321	1	**135-1115**
Phenolic resin worksurface N°2 - Midcap M321/M321	1	**135-1116**
Retention tray + worksurface N°1 - M391	1	**135-1117**
Phenolic resin worksurface N°2 - M391	1	**135-1118**
Retention tray + worksurface N°1 - XLS392	1	**135-1119**
Phenolic resin worksurface N°2 - XLS392	1	**135-1120**
Retention tray + worksurface N°1- XLS483	1	**135-1121**
Phenolic resin worksurface N°2 - XLS483	1	**135-1122**
Retention tray + worksurface N°1 - XLS633	1	**135-1123**

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Description	Pk	Cat. No.
Accessories		
Phenolic resine work surface N°2 - XLS633	1	**135-1124**
Retention Tray + worksurface N°1 - XLS714	1	**135-1125**
Phenolic resin worksurface N°2 - XLS714	1	**135-1126**
Molecode: solvents detector for Captair M/XLS	1	**135-1129**
Mobicap™ without worksurface - Midcap M321/M321	1	**135-1130**
Benchcap™ without worksurface - Midcap M321/M321	1	**135-1131**
Mobicap™ without worksurface - M391	1	**135-1132**
Benchcap™ without worksurface - M391	1	**135-1133**
Retention tray + worksurface N°1- M481	1	**135-1127**
Phenolic resin worksurface N°2 - M481	1	**135-1128**
Benchcap™ fixed work bench without worksurface for M481	1	**135-1134**

* Min./max. height

Hazardous material workplace with fresh air curtain

asecos

Aluminium tubular frame design, robust construction with anodised aluminium profiles and fracture-resistant acrylic glass.

Highly effective capturing of hazardous materials inside the workplace through special fresh air curtain technology for maximum user safety. Optimum for assembly on an existing workbench. Modular design, can be extended in 300 mm steps (up to width of 5400 mm by request); can also be combined with a variety of under bench cabinets for storing inflammable liquid, acids, alcalis, etc. A wide variety of work procedures require a unique solution when handling hazardous materials. These modular workplaces by asecos guarantee the ideal product is found quickly.

- Required occupational exposure limits are maintained
- Visual and audible alarm

Testing of the hazardous material workplace according to EN 14175 part 3 (5.4.4) CE-conformal, ATEX.

Delivery information: Standard equipment: Exhaust and fresh air monitoring with visual and audible alarm, interior lighting, transparent side panes made from 5 mm ESG tempered safety glass, melamine resin fold-away rear wall, integrated on/off switch and light switch. Prepared for connection to the customer's exhaust air system and electrical supply.

Description	W×D×H ext. (mm)	W×D×H int. (mm)	Weight (kg)	Pk	Cat. No.
Hazardous material workplace, useable workplace: 795×620 mm (W×D - without media duct), GAP.125.090.075	900×750×1400	865×650×1105	96	1	**135-1842**
Hazardous material workplace, useable workplace: 1095×620 mm (W×D - without media duct), GAP.125.120.075	1200×750×1400	1165×650×1105	105	1	**135-1840**
Hazardous material workplace, useable workplace: 1695×620 mm (W×D - without media duct), GAP.125.180.075	1800×750×1400	1765×650×1105	123	1	**135-1841**
Hazardous material workplace, useable workplace: 795×620 (W×D - without media duct), GAP.095.090.075	900×750×1100	865×650×855	84	1	**135-1845**
Hazardous material workplace, useable workplace: 1095×620 (W×D - without media duct), GAP.095.120.075	1200×750×1100	1165×650×855	93	1	**135-1843**
Hazardous material workplace, useable workplace: 1695×620 (W×D - without media duct), GAP.095.180.075	1800×750×1100	1765×650×855	111	1	**135-1844**

Glove box, mobile and disposable, Captair® pyramid
Erlab

A portable isolation enclosure which provides user and sample protection. Applications include on site sample collection of material evidence, fingerprint analysis and opening of suspicious packages. The Captair® pyramid offers protection from spillages and is ideal for use under inert atmosphere and manipulations requiring protection from dust or humidity. The glove box can be easily transported from field or other on site locations directly to a laboratory for further analysis. The enclosure has an internal nozzle connected to an external valve enabling connection to a laboratory vacuum pump.

- Light isolation enclosure with zipper opening, mobile and disposable
- Simple structure, easy to assemble at almost any location
- Gas insertion valve for inert gas applications
- Slanted panels for improved visibility
- Optimal air-tightness of the enclosure

Supplied with PVC medical gloves (size XL) and factory test certificate. Units are tested by inflating the enclosure with compressed air at 2.5 mm Hg.

Model	Captair® pyramid
Arm opening diameter (mm)	115
O-ring diameter (mm)	16
W×D×H ext. (mm)	860×560×725
Zipper length (mm)	600

Description	Pk	Cat. No.
Captair® pyramid glove box for field use, with 2 glove ports	1	**135-1734**

Ductless fume hoods, Chemcap™ Clearview™, Bigneat

Cabinets are manufactured from polyester coated steel; transparent panels are acrylic and resistant to corrosion.

Chemcap™ Clearview™ ductless fume hoods include Chemcap™ carbon filtration. A range of six standard cabinet sizes with keypad control panel, touch button controls and service due indicator. Includes 18 W fluorescent lamp and PVC base tray which offers excellent chemical resistance and contains spillages.

Operator protection: Chemcap™ fume cabinets protect the operator from fumes, aerosols and/or particulates whilst undertaking laboratory procedures.

Chemcap™ carbon/HEPA filtration options: Filters are included - most frequently used MP (multipurpose) and OS (where organic fumes predominate) are listed below, with or without HEPA filtration. Alternative filter types H+ (acids), F (formaldehyde), AM (ammonia) are available on request.

- Fully portable
- Clearview all-round vision
- BC 4002 has a full width envelope access
- BC 6003 to BC 1204 have teardrop front working access
- BC 1206 and BC 1506 cabinets have double fan, double filter stack and have trapezium front working access

Power supply: 230 V, AC, 50 Hz, 5 Amp, 1 Ø (on request 110 V, AC, 60 Hz, 8 Amp, 1 Ø).

Chemcap™ Clearview™ conforms to the requirements of all major standards for containment and filtration:

US Standard ASHRAE 110: 1995 12-203 (for containment)
British Standard BS 7989:2001 (for filter efficiency and retention capacity). Optional rear baffle is required, please contact VWR for details.
French Standard AFNOR NFX 15-211:2009 - Class 1 (for filter retention capacity)

Please contact VWR for details on alternative filter types and other options, including mobile stands and service options.

Description	W×D×H ext. (mm)	W×D×H int. (mm)	Pk	Cat. No.
Ductless Clearview™ cabinet BC 4002 with filter type AM	410×540×900	380×495×580	1	**135-1983**
Ductless Clearview™ cabinet BC 4002 with filter type F	410×540×900	380×495×580	1	**135-1984**
Ductless Clearview™ cabinet BC 4002 with filter type MP	410×540×900	380×495×580	1	**135-0682**
Ductless Clearview™ cabinet BC 4002 with filter type OS	410×540×900	380×495×580	1	**135-0649**
Ductless Clearview™ cabinet BC 6003 with filter type F	600×570×1145	570×520×810	1	**135-1985**
Ductless Clearview™ cabinet BC 6003 with filter type MP	600×570×1145	570×520×810	1	**135-0684**
Ductless Clearview™ cabinet BC 6003 with filter type OS	600×570×1145	570×520×810	1	**135-0651**
Ductless Clearview™ cabinet BC 8004 with filter type AM	800×570×1145	770×520×810	1	**135-1986**
Ductless Clearview™ cabinet BC 8004 with filter type F	800×570×1145	770×520×810	1	**135-1987**
Ductless Clearview™ cabinet BC 8004 with filter type MP	800×570×1145	770×520×810	1	**135-0686**
Ductless Clearview™ cabinet BC 8004 with filter type OS	800×570×1145	770×520×810	1	**135-0653**
Ductless Clearview™ cabinet BC 1004 with filter type AM	1000×570×1145	970×520×810	1	**135-1959**
Ductless Clearview™ cabinet BC 1004 with filter type F	1000×570×1145	970×520×810	1	**135-1960**
Ductless Clearview™ cabinet BC 1004 with filter type MP	1000×570×1145	970×520×810	1	**135-0676**
Ductless Clearview™ cabinet BC 1004 with filter type OS	1000×570×1145	970×520×810	1	**135-0643**
Ductless Clearview™ cabinet BC 1206 with filter type AM	1200×570×1145	1170×520×810	1	**135-1961**
Ductless Clearview™ cabinet BC 1206 with filter type F	1200×570×1145	1170×520×810	1	**135-1962**
Ductless Clearview™ cabinet BC 1206 with filter type AM	1200×570×1145	1170×520×810	1	**135-1963**
Ductless Clearview™ cabinet BC 1206 with filter type F	1200×570×1145	1170×520×810	1	**135-1965**
Ductless Clearview™ cabinet BC 1206 with filter type HP+	1200×570×1145	1170×520×810	1	**135-1968**
Ductless Clearview™ cabinet BC 1206 with filter type MP	1200×570×1145	1170×520×810	1	**135-1969**

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Description	W×D×H ext. (mm)	W×D×H int. (mm)	Pk	Cat. No.
Ductless Clearview™ cabinet BC 1206 with filter type OS	1200×570×1145	1170×520×810	1	**135-1971**
Ductless Clearview™ cabinet BC 1206 with filter type AM and HEPA	1200×570×1145	1170×520×810	1	**135-1964**
Ductless Clearview™ cabinet BC 1206 with filter type F and HEPA	1200×570×1145	1170×520×810	1	**135-1966**
Ductless Clearview™ cabinet BC 1206 with filter type HPLS and HEPA	1200×570×1145	1170×520×810	1	**135-1967**
Ductless Clearview™ cabinet BC 1206 with filter type MP and HEPA	1200×570×1145	1170×520×810	1	**135-1970**
Ductless Clearview™ cabinet BC 1206 with filter type OS and HEPA	1200×570×1145	1170×520×810	1	**135-1972**
Ductless Clearview™ cabinet BC 1506 with filter type AM	1500×570×1145	1470×520×810	1	**135-1973**
Ductless Clearview™ cabinet BC 1506 with filter type F	1500×570×1145	1470×520×810	1	**135-1975**
Ductless Clearview™ cabinet BC 1506 with filter type H+	1500×570×1145	1470×520×810	1	**135-1978**
Ductless Clearview™ cabinet BC 1506 with filter type MP	1500×570×1145	1470×520×810	1	**135-1979**
Ductless Clearview™ cabinet BC 1506 with filter type OS	1500×570×1145	1470×520×810	1	**135-1981**
Ductless Clearview™ cabinet BC 1506 with filter type AM and HP	1500×570×1145	1470×520×810	1	**135-1974**
Ductless Clearview™ cabinet BC 1506 with filter type F and HEPA	1500×570×1145	1470×520×810	1	**135-1976**
Ductless Clearview™ cabinet BC 1506 with filter type H+ and HEPA	1500×570×1145	1470×520×810	1	**135-1977**
Ductless Clearview™ cabinet BC 1506 with filter type MP and HEPA	1500×570×1145	1470×520×810	1	**135-1980**
Ductless Clearview™ cabinet BC 1506 with filter type OS and HEPA	1500×570×1145	1470×520×810	1	**135-1982**

Ductless filter fume hoods, Chemcap™ Pro2 series, Bigneat

Cabinets are manufactured from epoxy coated steel and transparent panels are of clear acrylic and are highly resistant to corrosion.

The Chemcap™ Pro2 cabinets (ductless, recirculatory filtration) provide increased operator safety over the Chemcap™ Clearview™ cabinet range, achieved by double carbon filtration and HEPA particulate filtration and powerful extraction system.

Chemcap™ Pro2 is designed for use with the most toxic fumes, vapours and particulates. This cabinet incorporates a back-up filter – when the lower filter reaches saturation point, any fumes breaking through are retained by the upper back-up filter. To facilitate periodic testing of the interfilter gases, the filter housing contains an integral sampling chamber. During service the main filter is removed and the back-up filter is dropped down to become the main filter and a new back-up filter installed.

Cabinet can be placed onto an existing work surface or it may be supplied with mobile bench or static stand. Select either a mobile bench with integrated cupboard or an open box section bench (castors/fixed height). A range of three standard cabinet sizes.

Operator protection: Double filtration protection, double safe.

Chemcap carbon/HEPA filtration options: Filters are included - most frequently used MP (multipurpose) and OS (where organic fumes predominate) are listed below, with or without HP (HP refers to HEPA filtration). Alternative filter types H+ (acids), F (formaldehyde), AM (ammonia) are available on request.

- Excellent all-round vision
- Keypad control panel with touch button controls and service due indicator
- Audible electronic low air flow alarm
- Cabinets include lighting and trapezium front access as standard with double hinged and lockable front door flaps for easy access to cabinet interior
- The PVC base tray offers excellent chemical resistance and contains spillages

Power supply: 230 V, AC, 50 Hz, 5 Amp, 1 Ø (on request 110 V, AC, 60 Hz, 8 Amp, 1 Ø).

Please contact us for details on alternative filter types and other options, including electronic filter saturation alarm, mobile stands and service options.

Chemcap™ Pro2 conforms to the requirements of all major standards for containment and filtration:
- US Standard ASHRAE 110: 1995 12-203 (for containment)
- British Standard BS 7989:2001 (for filter efficiency and retention capacity)
- French Standard AFNOR NFX 15-211:2009 - Class 2 (for filter retention capacity)

Installation & commissioning of a recirculatory filtration cabinet:

Visit by qualified engineer to deliver, assemble, commission and air flow test powder weighing, ductless fume or PCR cabinets. Advice to user(s) of best practice.

Delivery information: Cabinets are supplied with a full set of filters (pre-filter, 2x carbon filters of pre-determined type, and with or without HEPA filter), a rear baffle and lighting (18 W fluorescent lamps). Please note that the cabinets are delivered unassembled.

Description	W×D×H ext. (mm)	W×D×H int. (mm)	Pk	Cat. No.
Ductless fume cabinet, PRO1004, with MP filter	1048×580×1248	968×506×807	1	**135-1988**
Ductless fume cabinet, PRO1004, with MP and HEPA filters	1048×580×1248	968×506×807	1	**481-0646**
Ductless fume cabinet, PRO1004, with F filter	1048×580×1248	968×506×807	1	**135-1989**
Ductless fume cabinet, PRO1004, with F and HEPA filters	1048×580×1248	968×506×807	1	**135-1990**
Ductless fume cabinet, PRO1004, with OS and HEPA filters	1048×580×1248	968×506×807	1	**481-0644**
Ductless fume cabinet, PRO1004, with H^+ filter	1048×580×1248	968×506×807	1	**135-1992**
Ductless fume cabinet, PRO1004, with H^+ and HEPA filters	1048×580×1248	968×506×807	1	**135-1991**
Ductless fume cabinet, PRO1506, with MP filter	1548×580×1248	1468×506×807	1	**481-0643**
Ductless fume cabinet, PRO1506, with MP and HEPA filter	1548×580×1248	1468×506×807	1	**481-0642**
Ductless fume cabinet, PRO1506, with OS filter	1548×580×1248	1468×506×807	1	**481-0641**
Ductless fume cabinet, PRO1506, with OS and HEPA filters	1548×580×1248	1468×506×807	1	**481-0640**
Ductless fume cabinet, PRO2008, with MP filter	2048×580×1248	1968×506×807	1	**481-0639**

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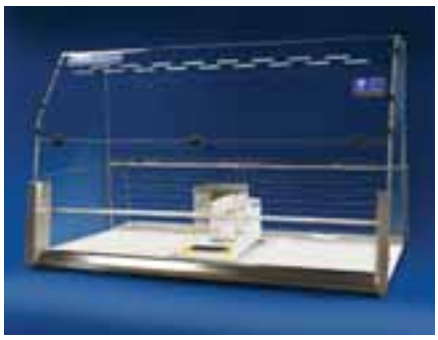
Description	W×D×H ext. (mm)	W×D×H int. (mm)	Pk	Cat. No.
Ductless fume cabinet, PRO2008, with MP and HEPA filters	2048×580×1248	1968×506×807	1	**481-0638**
Ductless fume cabinet, PRO2008, with OS filter	2048×580×1248	1968×506×807	1	**481-0637**
Ductless fume cabinet, PRO2008, with OS and HEPA filters	2048×580×1248	1968×506×807	1	**481-0636**

Description	Pk	Cat. No.
Installation & commissioning of a recirculatory filtration cabinet (one cabinet within mainland UK only)	1	**135-0641**

Powder containment cabinets, Excel Plus

Excel Plus 1206 R



Excel Plus 1200 D

Excel Plus cabinets are for precision weighing applications - for protection from particles whilst weighing and handling powders. These cabinets incorporate aerofoil technology and graded rear back baffles ensuring reduced turbulence and precise control of air flow across the entire width of the working access. They are available as ducted or recirculatory models.

R models - recirculatory filtration

Fan speed is pre-set to between 0.3 and 0.5 m/s, depending on the application. Acrylic construction and angled clear front windows enable excellent vision of enclosed manipulations and comfort during use. The black base tray is ideal for highlighting spilt powder.

Two-stage filtration is used in these particulate filtration systems. Cabinets are supplied complete with HEPA filtration (removes particles greater than 0.3 microns with an efficiency of 99.997%) and pre-filter (removes particles greater than 5 microns).

- Keypad control panel with touch button controls and service due indicator
- Gentle non-turbulent flow prevents balance fluctuation and cabinet dead spots
- Suited to weighing with a 6 figure balance
- Audible electronic low air flow alarm and lockable front access doors
- Safe-change pre-filter can be bagged under negative pressure

The mild steel fan housing is epoxy coated. Transparent panels are manufactured from 12 mm clear cast acrylic which is non-flammable, resistant to corrosion and easy to clean. There is a full 175 mm height front access across full cabinet width. The base tray is manufactured from PVC.

Options include lighting (18 W fluorescent lamp), ionising bars to eliminate dust attraction and control of the static environment, an ULPA filtration upgrade and a static bench/stand (open or with cupboard doors). Please contact us for full details.

D models - ducted

Extraction of air can be through filters at a remote location or through existing extraction ductwork.

- Non-turbulent flow prevents balance fluctuation and cabinet dead spots
- Angled clear front provides excellent vision of interior and comfort during use
- Suited to weighing with a 6 figure balance
- Electronic low airflow alarm

Transparent structure is manufactured from 12 mm clear cast acrylic which is non-flammable, resistant to corrosion and easy to clean. There is a full 175 mm height front access across full cabinet width. The base tray is manufactured from PVC.

Options include lighting (18 W fluorescent lamp), ionising bars to eliminate dust attraction and control of the static environment, a spigot (200 mm) for connection to house ducting and a static bench/stand (open or with cupboard doors). Please contact us for full details.

Description	W×D×H ext. (mm)	W×D×H int. (mm)	Pk	Cat. No.
R models - recirculatory filtration				
Excel Plus 804, powder containment cabinet	800×725×1167	770×605×790	1	**135-1915**
Excel Plus 1004, powder containment cabinet	1020×725×1167	970×605×790	1	**135-1908**
Excel Plus 1206, powder containment cabinet	1220×725×1167	1170×605×790	1	**135-1911**
Excel Plus 1506, powder containment cabinet	1520×725×1167	1470×605×790	1	**135-1913**
D models – ducted				
Excel Plus 800, powder containment cabinet	800×740×912	772×605×885	1	**135-1914**
Excel Plus 1000, powder containment cabinet	1000×740×912	972×605×885	1	**135-1907**
Excel Plus 1200, powder containment cabinet	1200×740×912	1172×605×885	1	**135-1910**
Excel Plus 1500, powder containment cabinet	1500×740×912	1472×605×885	1	**135-1912**

Powder containment cabinets, XIT, Bigneat

F3 XIT -D

XIT Plus

For protection from particles whilst weighing and handling powders. Two-stage filtration is used in these particulate filtration systems. Firstly a pre-filter removes particles >5 microns, then a high capacity design HEPA filter, certified to BS EN1822, removes particulate matter >0.3 microns to an absolute filtration of 99.997%.

F3 XIT: Small weighing cabinets

The mild steel fan housing is epoxy coated. Transparent panels (6 mm) are manufactured from clear acrylic which is resistant to corrosion and easy to clean. Ideal for a single balance, this cabinet has very small footprint.

- Compact size and portable
- Fan speed provides for optimum face velocities of between 0.3 to 0.5 ms^{-1}

F3 XIT cabinets feature hinged access flap.

XIT Plus cabinets: Weighing cabinets

The mild steel fan housing is epoxy coated. Transparent panels are fabricated from clear acrylic which is resistant to corrosion and easy to clean.

- Keypad control panel with touch button controls and service due indicator
- Audible electronic low air flow alarm
- Safechange pre-filter bagged under negative pressure
- Variable fan-speed control provides for optimum face velocities; 0.3 to 0.5 ms^{-1}
- Vaneometer indicates flow condition

Ordering information: Base trays are supplied with XIT Plus models. It is optional for F3 XIT-D, if required, it must be ordered separately – please contact us for more details.

Description	W×D×H ext. (mm)	W×D×H int. (mm)	Pk	Cat. No.
XIT Models				
F3 XIT-D Powder weighting cabinet supplied with pre-filter and HEPA filter	600×520×650	579×506×455	1	**135-0657**
XIT Plus series				
XIT Plus 804 Powder weighing cabinet supplied with pre-filter and HEPA filter	800×570×1145	770×520×810	1	**135-1682**
XIT Plus 1004: recirculating portable powder weighing cabinet supplied with pre-filter and HEPA filter	1200×570×1145	970x510x810	1	**135-1683**
XIT Plus 1204: recirculating portable powder weighing cabinet supplied with pre-filter and HEPA filter	1200×570×1145	1170×520×810	1	**135-1684**

Powder weighing cabinets, Excel Plus Safechange, Bigneat

Construction: All steel parts are epoxy coated; transparent panels are made from clear acrylic which is resistant to corrosion.

Excel Plus workstations are used in the laboratory for the most demanding powder handling applications, such as high accuracy weighing, processing of pellets, capsules or tablets and for dispensing of potentially toxic powdered compounds.

Excellent operator protection is achieved by enhanced airflow control and aerofoil technology which ensures that containment is achieved and maintained at the very low air flows required for balance stability.

Two-stage filtration is used in this workstation. A dual set of filters comprising a pre-filter (eliminates particles 5.0 microns or larger to an efficiency of 92% as defined in BS EN ISO 779) then a high capacity design (double layer) HEPA filter (H14 Standard) eliminates particles 0.3 microns or larger to an efficiency of 99.995%.

- True Safechange Technology eliminates the possibility of contamination either in the laboratory or upstream in ductwork and fan assembly
- Double layer filtration provides extra filter system integrity
- Visible and audible alarms alert user of unsafe flow conditions
- Fan speed compensation for variation in flow during the lifetime of the filter maintains cabinet performance
- Double hinged front visors can be opened for full access to the cabinet interior
- Gentle non-turbulent flow prevents balance fluctuation and cabinet dead spots
- 180 mm height front access across full cabinet width

Power supply: 230 V, AC, 50 Hz, 5 Amp, 1 Ø (on request 110 V, AC, 60 Hz, 8Amp, 1 Ø).

Options include ULPA filtration (Grade U16), carbon filtration to remove fumes and odours, transfer spigot port on side of cabinet for waste and bag transfer, ionising bars to eliminate dust attraction and control of the static environment. Please contact us for full details.

Delivery information: Supplied with base tray, sealed fluorescent light units, pre-filters, 2× double-layer HEPA filters (Grade H14).

Description	W×D×H ext. (mm)	W×D×H int. (mm)	Pk	Cat. No.
Excel Plus 1006	1020×724×1065	1002×505×669	1	**135-1909**
Excel Plus 1306	1295×724×898	1275×505×502	1	**135-0688**
Excel Plus 1606	1595×724×898	1575×505×502	1	**135-0689**

Vertical laminar flow cabinets, V-30/70

Telstar

Vertical laminar flow cabinets deliver an ultra-clean laminar airflow over a working bench to protect manipulated products from dust, environmental contamination and from cross contamination in the working area.

They are an ideal solution for the handling of harmless substances and non hazardous biological samples where product sterility is required. Appropriate applications include cell and tissue culture, media preparation, haematology, immunology or R&D practices working with non toxic or non pathogenic samples.

Supplied with two HEPA H14 filters, one for the downflow and another for the exhaust. 70% of the air is recirculated thus minimising filter clogging and the other 30% is expelled through HEPA H14 filter at the top of the unit. An additional air flow enters from the front to create an air barrier which provides protection to the samples and the lab environment.

- Equipped with an intuitive electronic control system (alphanumerical LCD display) which offers fast and complete control over all cabinet functions
- Easy access to main filter from the chamber for replacement
- Stainless steel divided working tray to allow easy cleaning
- Removable tempered glass chamber sides increase the available light inside the work area and support a comfortable work environment

All models are supplied with a working area ISO 4 air quality (Class 10, F.S 209B).

Delivery information: Delivery prices, installation and commissioning are available on request.

Model	PV-30/70	AV-30/70	BV-30/70	CV-30/70
Air velocity (m/s)	0.40		0.35	
Exhaust air volume (m^3/h)	290	360	380	500
Total volume (m^3/h)	620	1010	1100	1335
Lighting	>800 lux	>650 lux		>800 lux
Noise level (dB(A))	<60			
External W×D×H (mm)	802×845×1290	1260×845×1290	1565×845×1290	1870×845×1290
Internal W×D×H (mm)	772×610×700	1230×610×700	1535×610×700	1840×610×700
Weight (kg)	100	150	170	205
Filters	Filters HEPA/ULPA H14 EN 1822, 99.999% at 0.3 µm particle size according to DOP, 99.995% between 0.12 µm and 0.17 µm particle size according to MPPS			

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Description	Pk	Cat. No.
Vertical laminar flow cabinet, PV-30/70	1	135-0514
Vertical laminar flow cabinet, AV-30/70	1	135-0530
Vertical laminar flow cabinet, BV-30/70	1	135-0606
Vertical laminar flow cabinet, CV-30/70	1	135-0605

Description	Pk	Cat. No.
Accessories		
Vacuum connection for horizontal and vertical flow workbenches	1	135-0590
Gas connection for horizontal and vertical flow workbenches	1	135-0602
UV lamp AV, BV, CV	1	135-0529
Support frame for PV-30/70	1	135-0591
Support frame for AH-100 and AV-30/70	1	135-0592
Support frame for MH-100 and BV-30/70	1	135-0593
Support frame for BH-100 and CV-30/70	1	135-0594

Horizontal laminar flow cabinets, Heraguard™ ECO

Thermo Scientific

Heraguard™ ECO Clean Bench cabinets are ideal for laboratory applications where sample protection is required. Due to DC motors, Heraguard™ ECO Clean Bench cabinets use less energy to operate so there is less heat emitted into the laboratory.

They are available with interior widths of 900, 1200, 1500 and 1800 mm and are offered in two different working heights:
- standard work space height 650 mm
- extra work space height 950 mm

The side windows are made of tempered safety glass and the tabletop of white melamine.

- Easy to use, intuitive control panel
- All-round vision: The side windows increase the light inside the work area and support a comfortable work environment
- Easy prefilter and HEPA filter exchange
- Transparent hinged wind screen protects the user
- Side panels made from single-pane safety glass, with an access port for tubing or for installing a media tap

Delivery information: Supplied with melamine benchtop, lighting, one access port in each side panel and operating hours counter. Available with optional stainless steel work surface, UV lamp, side panels with access ports or combi panels with access ports, please ask your local VWR sales representative for details. Delivery, installing and commissioning prices available on request, please contact VWR.

Model	ECO 0.9	ECO 1.2	ECO 1.5	ECO 1.8	ECO 1.8/95
Air velocity (m/s)	0.15 - 0.25				0.32 - 0.40
Lighting	>1000 lux				
Noise level (dB(A))	<55 (level I) <60 (level II)				
External W×D×H (mm)	1100×810×1170	1300×810×1170	1600×810×1170	1900×810×1170	1900×1010×1475
Internal W×D×H (mm)	920×585×645	1220×585×645	1520×585×645	1820×585×645	1820×785×950
Weight (kg)	90	120	140	150	220
Filters	Prefilter type EN 779 G3 dust filter, filtering efficiency: coarse-medium HEPA filter				

Description	Pk	Cat. No.
Clean Bench, Heraguard™ ECO 0.9	1	135-1737
Clean Bench, Heraguard™ ECO 1.2	1	135-1738
Clean Bench, Heraguard™ ECO 1.5	1	135-1739
Clean Bench, Heraguard™ ECO 1.8	1	135-1740
Clean Bench, Heraguard™ ECO 1.8/95 (height 950 mm)	1	135-1741

The height is given without base frame.

Horizontal laminar flow work cabinets, series H
Telstar

Horizontal laminar flow cabinets offer the highest product protection against dust and contamination in an open cabinet for non hazardous samples such as cell and tissue cultures, food testing preparation, injectable medicine preparation. It is also suitable for micromechanics, optics and electronics. HEPA filtered air, particle free, flushes the product preparation space with laminar flow thus preventing direct or cross contamination.

The cabinet frame is made of epoxy powder coated finish and the one piece working tray of polished stainless steel. The glass sidewalls are removable and UV resistant.

- Equipped with an intuitive electronic control system (alphanumerical LCD display) which offers fast and complete control over all cabinet functions
- Easy access to main filter from the chamber, for replacement

Class 100 workstation according to Fed. Std. 209 and BS 5295. The European standard EN 1822 has superseded all national standards such as BS 3928, DIN 24184 or AFNOR NF X44-013.

Delivery information: Instruments are supplied with electrical socket in working area, polished stainless steel work bench and digital control board with large LCD display. Delivery, installation and commissioning prices are available on request.

Model	Mini-H	AH-100	MH-100	BH-100
Air velocity (m/s)	0.40			
Total volume (m^3/h)	900	1400	1800	2100
Lighting	>750 lux	>1000 lux		
Noise level (dB(A))	<58			
External W×D×H (mm)	798×795×1157	1260×845×1290	1565×845×1290	1870×845×1290
Internal W×D×H (mm)	745×625×800	1200×600×760	1505×600×760	1810×600×760
Weight (kg)	80	140	160	190
Filters	HEPA filter H14 Prefilter 85% ASHRAE			

Description	Pk	Cat. No.
Mini-H	1	**135-0526**
AH-100	1	**135-0519**
MH-100	1	**135-0601**
BH-100	1	**135-0600**

Description	Pk	Cat. No.
Accessories		
UV-Lamp for Mini-H	1	**135-0527**
Support frame for AH-100 and AV-30/70	1	**135-0592**
Support frame for MH-100 and BV-30/70	1	**135-0593**
Support frame for BH-100 and CV-30/70	1	**135-0594**
Support frame for Mini-H	1	**135-0599**

Horizontal laminar flow product protection workbenches, CLF
Telstar

The highly versatile CLF series is suitable for working with non hazardous materials that require a low-particle working environment. HEPA filtered air is passed horizontally over the work surface to ensure a class 100 (ISO 5) cleanroom environment. For use in the pharmaceutical industry, biotechnology, hospitals, university and scientific laboratories as well as cell and tissue culture labs. The highest quality materials are used to ensure very quiet running, the noise level is 56 dB(A). Integral alarm function (visual and audible).

- Impact-resistant housing made from epoxy coated steel
- The work surface is optionally available in laminated plastic or stainless steel
- The pre-filter and HEPA filter are easy to replace
- The side walls are made of safety glass
- Microprocessor control display with electronic flow control shows all important data at a glance

EN 1822 (HEPA filter type H14); EN 779 (pre-filter type G3)

Delivery information: This model cannot be delivered with a front panel.

Model	CLF 475	CLF 675
Total volume (m^3/h)	1135	1700
Noise level (dB(A))	56	
Power rating (kW)	0.65	0.70
Electrical supply	230 V/50 Hz/16 A	
External W×D×H (mm)	1290×890×1350	1900×890×1350
Internal W×D×H (mm)	1190×540×735	1800×540×735
Weight (kg)	225	325
Filters	HEPA filter type H14; pre-filter type G3	

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Description	Pk	Cat. No.
CLF 475, with laminated plastic worktop	1	**135-0096**
CLF 475, with stainless steel worktop	1	**135-0097**
CLF 675, with laminated plastic worktop	1	**135-0098**
CLF 675, with stainless steel worktop	1	**135-0099**

Description	Pk	Cat. No.
Accessories		
Support frame for CLF 475, epoxy coated, working height 810 mm	1	**135-0073**
Support frame for CLF 675, epoxy coated, working height 810 mm	1	**135-0074**
Gas tap, single	1	**135-0075**
Gas tap, double	1	**135-0106**
UV armature for CLF-DLF	1	**135-0076**
Triple sockets (UK/HKG/IRE)	1	**135-1535**

Glove box, temperature and humidity controlled, 890-THC

For laboratory isolation applications that require the maintenance of accurate temperature and humidity levels. Roomy, single-station glove box includes a vacuum-capable transfer chamber, Hypalon® gloves, large full colour display, inert gas hook up and a serial connection interface for data logging. The chamber has a one piece clear acrylic top and die-moulded bottom. Easy to use touch screen display features password protection; four preset conditions; chamber-temperature, room-temperature, and humidity readings; date and time display; and four selectable high/low alarms. Two inlet/outlet gas valves are located on the main chamber and on the transfer chamber. Units include a relative humidity transmitter with a 244 cm sensor cable, a platinum RTD with sealing gland, a nebuliser, and a thermoelectric assembly (Peltier device).

- Serial port connection for data logging
- Four preset conditions
- Password protected, configurable PID control
- One touch, on-screen data logging
- Two drying train canisters (filled with molecular sieve) and circulation pump (optional)

Touch screen display features:

- Easy to use, single touch display screen
- On screen temperature and humidity readings; set points and actual chamber readings
- Full colour screen
- Date and time display
- Contrast adjustability
- Room temperature and humidity readings

Delivery information: Includes: vacuum-capable transfer chamber, one piece Hypalon® gloves, large colour touch screen operator display, inert gas hook-up, and serial connection for data logging.

Model	890-THC
Humidity accuracy (% RH)	±1
Humidity range (% RH)	1 - 80
Humidity resolution (% RH)	0.1
Resolution (°C)	
Sensor	Humidity ±2% RH
Temperature accuracy (°C)	±1
Temperature range (°C)	16...44
Temperature sensor accuracy (°C)	±0.3
Volume (l)	489
Weight (kg)	112.5
W×D×H ext. (mm)	1391×889×965
W×D×H int. (mm)	1041×711×660

Description	Pk	Cat. No.
Glove box, 890-THC, with 2 ports	1	**135-0671**

Description	Pk	Cat. No.
Accessories		
Work station ioniser	1	**135-0658**

Glove box, La Petite

This small and lightweight glove box consists of an optically clear, one piece formed, unbreakable top and a one piece bottom formed out of high temperature Noryl. Top and bottom are sealed using a revolutionary new gel used in the cleanroom industry.

- Large access door (30 cm opening)
- Four ground key-cock valves for purging and gas entry and a levelling plate for transferring liquids
- Stainless steel clamps are adjustable and have security locking features
- Adjustable RH gauge
- Transparent, vacuum-capable transfer chamber, 30 cm long × 25 cm I.D. with vacuum gauge
- "Weathertite" duplex electrical outlet with safety covers

Volume (l)	269
Weight (kg)	35
W×D×H ext. (mm)	1245×740×560
W×D×H int. (mm)	800×650×550

Description	Pk	Cat. No.
Glove box, La Petite, with 2 glove ports	1	**135-0661**

Description	Pk	Cat. No.
Accessories		
Work station ioniser	1	**135-0658**
Drying train package with pump, removes unwanted moisture from internal atmosphere	1	**135-0660**

VWR COLLECTION CATALOGUE

10 000 equipment, instrument and consumable products

Request your copy from your local VWR sales office or vwr.com

SMART skai® chairs

VWR Collection SMART Skai® chairs with all-inclusive ergonomics

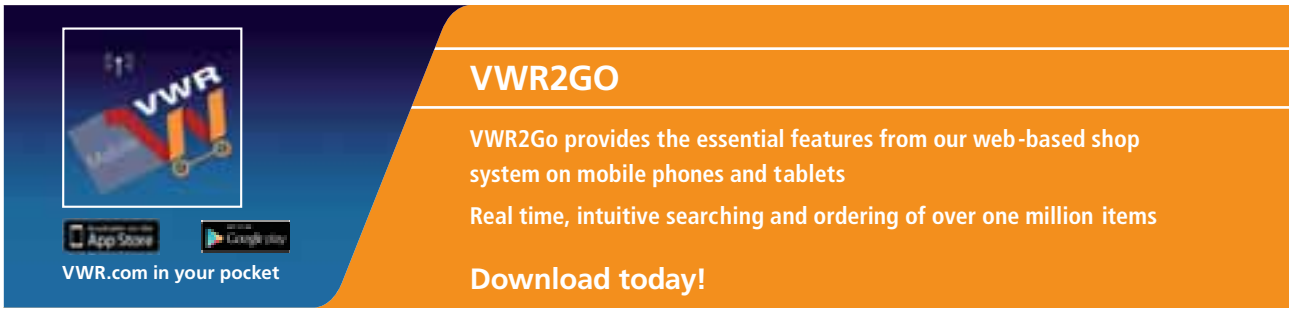
Active, dynamic seating with extraordinary comfort.

- Ergonomically shaped upholstery guarantees outstandingly comfortable sitting
- Upholstery in artificial leather covering, washable, easy to clean and disinfectant proof
- Synchro mechanism with weight adjustment for active dynamic seating
- Inclination, depth and height of seat and backrest individually adjustable
- The high backrest (500 mm) guarantees good back support
- Comfort cushion, 8 cm thick
- Aluminium 5 star base

GS safety tested.

Description	Height (mm)	Foot form	Foot ring	Pk	Cat. No.
Laboratory chair SMART skai®, upholstery black synthetic leather, high backrest, synchronous technology, seat height adjustment	450 – 600	Soft castors	-	1	**132-0944**
Laboratory chair SMART skai®, upholstery blue synthetic leather, high backrest, synchronous technology, seat height adjustment	450 – 600	Soft castors	-	1	**132-0945**
Laboratory chair SMART skai®, upholstery black synthetic leather, high backrest, synchronous technology, seat height adjustment	570 – 830	Glides	+	1	**132-0946**
Laboratory chair SMART skai®, upholstery blue synthetic leather, high backrest, synchronous technology, seat height adjustment	570 – 830	Glides	+	1	**132-0947**
Laboratory chair SMART skai®, upholstery black synthetic leather, high backrest, synchronous technlogoy, seat height adjustment	610 – 870	Stop & go castors	+	1	**132-0948**
Laboratory chair SMART Skai®, upholstery blue synthetic leather, high backrest, synchronous technlogoy, seat height adjustment	610 – 870	Stop & go castors	+	1	**132-0949**

Description	Pk	Cat. No.
Accessories		
4-D multifuntion armrest: height, depth and width adjustable as well as pivoted to fit with SMART and Comfort models	2	**132-0702**



Chairs, Koncept

Kango

Chair, PU

Chair with stainless steel base, PU

Chair, wood

Soft PU or wood, ergonomic and auto-adaptive chairs

Nobody has perfect symmetrical morphology. This is why people have back problems, sometimes with a feeling of heavy legs. The answer to this problem can be found in the main features of the Koncept chair.

A good working position is a dynamic posture, making it possible to move, because moving ensures good blood flow.

A seat tilted forward, split into two parts, based on silent-blocks forming a triangle helps to rebalance the body naturally and improve blood flow. The Koncept seat has great flexibility, which provides better distribution of pressure when moving. The orientation of the seat also facilitates an upright posture and minimises spinal stress.

On a work chair, the backrest is only slightly used or misused. For this reason, Koncept is not equipped with a standard backrest but with a lumbar support which aims to help the user find the perfect posture immediately.

- Auto-adaptive to users and to their positions
- Helps the mobility, blood flow and elimintates back pain
- No staples or seams
- Abrasion-resistant
- Black steel 5-branch scuff resistant reinforced base
- Black gas lift column with height adjustment and shock absorber (except for the stainless steel model)
- Available without lumbar support

Description	Height (mm)	Foot form	Foot ring	With	Pk	Cat. No.
Chairs, PU						
Deformable seat in black soft PU, tilted 2° forward, with lumbar support in black PU, adjustable in depth, with black steel base	510 – 645	Castors with rubber "tyre"	-	Black gas-lift column	1	**139-1017**
Deformable seat in black soft PU, tilted 2° forward, with lumbar support in black PU, adjustable in depth, with black steel base	610 – 855	Articulated glides	Height adjustable aluminium foot-ring	Black gas-lift column	1	**139-1018**
Chair with stainless steel base, PU						
Deformable seat in black soft PU, tilted 2° forward, with lumbar support in black PU, with stainless steel 316 L base	560 – 810	Glides	Stainless steel	Stainless steel column with height adjustment thanks to a screw located inside the column	1	**139-1019**
Chairs, wood						
Deformable seat tilted 2° forward, with an adjustable in depth, lumbar support, in multi-ply beech wood, with anti-slip black varnish and black steel base	485 – 620	Castors with rubber "tyre"	-	Black gas-lift column	1	**139-1007**
Deformable seat in multi-ply beech wood, tilted 2° forward, with anti-slip black varnish and black steel base	585 – 830	Articulated glides	Height adjustable aluminium foot-ring	Black gas-lift column	1	**139-1008**

Large chairs and stools, vinyl
Kango

Large chair

Stool with backrest

Stool

M1 vinyl, suitable for many uses and work environments

- 5-branch chromed, scuff resistant reinforced base
- Soft and comfortable
- The smooth watertight surface is easy to clean and decontaminate
- Fire-resistant: M1 and EN1021, 1-2
- Gas lift column with shock absorber for height adjustment
- Scuff-resistant, reinforced base

Large chairs:

- Generously proportioned seat and back pad in polyether foam covered in woven vinyl
- Independently adjustable seat and backrest tilt with one fingertip lever thanks to an asynchronous mechanism (for asynchronous chairs)
- Dimensions of the seat (W×D): 470×470 mm
- Dimensions of the backrest (W×H): 400×420 mm

Stools:

- Round seat in M1 Ginkgo vinyl with high density soft foam
- Diameter of the seat: 350 mm
- Dimensions of backrest (W×H): 360×220 mm
- Seat thickness: 600 mm for the Comfort model and 300 mm for the Eco one
- Option: Foot control height adjustment available on request
- The Eco models are also available in black colour (on request)

Description	Height (mm)	Foot form	Foot ring	Pk	Cat. No.
Large chairs					
Wide grey seat with high adjustable backrest, with asynchronous mechanism	450 - 580	With castors with rubber "tyre"	-	1	**139-0211**
Stools with backrest					
Comfort stool: black round seat with adjustable height and backrest	590 – 830	With articulated glides	Height adjustable, polyamide	1	**139-1000**
Eco stool: grey round seat with adjustable height and backrest	560 – 800	With articulated glides	Height adjustable, polyamide	1	**139-1001**
Stools					
Comfort stool: black round seat	490 – 610	With castors with rubber "tyre"	-	1	**139-1002**
Eco stool: grey round seat	460 – 590	With castors with rubber "tyre"	-	1	**139-1003**

Chairs, PU
Kango

Chair with asynchronous mechanism

Semi stand-up seat

Stand-up seat

Soft PU, suitable for many uses and work environments

Ergonomic seats in soft polyurethane for maximum comfort.

- Does not overheat or cause perspiration
- Very sturdy: this range resists sharp tools, sparks, weak acids and hydrocarbons
- Easily cleaned using common household products
- Thickness of the foam: 4 cm

The black chairs and semi-stand-up seats are classified: CF according to the recommendation D2 2000 of GPEM of April 2000.

Chairs:

- Black ergonomic square seat and curved backrest for better lumbar support
- Incorporated carry handle
- Articulated backrest adjustable in height and depth (standard chairs)
- Independently adjustable seat and backrest tilt with one fingertip lever thanks to an asynchronous mechanism (asynchronous chairs)
- Dimensions of the seat (W×D): 410×390 mm
- Dimensions of the backrest (W×H): 360× 220 mm
- Gas lift column with shock absorber for height adjustment
- 5-branch scuff resistant reinforced base

Semi stand-up seats:

- Black ergonomic square seat
- Dimensions of the seat (W×D): 410×390 mm
- Gas lift column with schock absorber for height adjustment
- 5-branch scuff resistant reinforced base

Stand-up seats:

- Ergonomic concept that eliminates the fatigue created by body weight while standing up
- Extremely stable and easy to move
- It takes up little floor space
- Its base is designed not to interfere with user movements
- Semicircular steel base covered in PVC, plastic based satin coating, floor space (W×D): 490×330 mm
- Dimension of the seat (W×D): 345×175 mm
- Non rotating, tilted gas lift column with height adjustment and shock absorber

Description	Height (mm)	Foot form	Foot ring	With	Pk	Cat. No.
Standard chairs						
Ergonomic seat in black soft PU, with articulated backrest adjustable in depth and height and chrome base	450 – 580	With nylon castors	-	Chrome gas-lift column	1	**139-1012**
Ergonomic seat in black soft PU, with articulated backrest adjustable in depth and height and chrome base	520 – 650	With nylon castors (stop when unloaded)	Height adjustable, PA	Chrome gas-lift column	1	**139-1013**
Ergonomic seat in black soft PU, with articulated backrest adjustable in depth and height and polyamide base	580 – 820	With articulated glides	-	Black gas-lift column	1	**139-1014**
Chairs with asynchronous mechanism						
Ergonomic, seat in black soft PU, with asynchronous mechanism, backrest adjustable in height and chrome base	460 – 590	With nylon castors	-	Chrome gas-lift column	1	**139-1015**
Ergonomic, seat in black soft PU, with asynchronous mechanism, backrest adjustable in height and chrome base	560 – 800	With articulated glides	Height adjustable, aluminium	Chrome gas-lift column	1	**139-1016**

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Description	Height (mm)	Foot form	Foot ring	With	Pk	Cat. No.
Semi stand-up seats						
Ergonomic seat in black soft polyurethane, tilted forward, with chrome base	550 – 790	With articulated glides	Height adjustable, PA	Chrome gas-lift column	1	**139-1011**
Stand-up seats						
Cylindrical seat in black soft PU, with carry handle with semi circular steel base covered in a black PVC coating	630 – 860 mm (750 – 980 mm with extension)	Semi circular base	-	Non rotating, black tilted gas-lift column	1	**139-1010**

Chairs, All-In-One Alu

The VWR Collection All-In-One Alu is the upgrade of the Collection All-In-One, all the chairs are designed with a polished aluminium 5 star base. The seat height adjustment allows the individual adjustment of the seat height depending on the user's seating habits, activity and height. Also, the seat inclination adjustment enables inclination of the entire seat up to 5°, providing supported active sitting – ensuring a vertical position of the pelvis helping the spine to maintain its natural S shape.

Glides: The glides are wear-proof plastic and have a large surface area and offer a high level of stability.

Castors: Dual-wheel castors with load-sensitive brakes have to be right for the floor. All chairs are supplied with soft castors for hard floors as standard. Hard castors for soft floors are also available as an option.

Stop&go technology: For safety reasons chairs whose seat is more than 650 mm high must not be movable whilst in use. With innovative stop & go castors these chairs are only mobile when no one is sitting on them.

- SoftTouch PU foam, resistant against aggressive liquids, easy to clean and disinfect
- Permanent contact backrest responds to any movement and supports dynamic sitting
- Seat height adjustment by gas-lift
- Ergonomically shaped backrest for ideal fitting of the back

Lab chairs conform to security level S2, GMP-conform

Description	Height (mm)	Foot form	Foot ring	Pk	Cat. No.
All-In-One Alu polished aluminium chair	430 - 600	Glides	-	1	**132-0743**
All-In-One Alu polished aluminium chair	430 - 600	Castors	-	1	**132-0744**
All-In-One Alu polished aluminium chair	580 - 850	Glides	+	1	**132-0745**
All-In-One Alu polished aluminium chair	580 - 850	Stop & Go castors	+	1	**132-0746**

Work chairs, stools and semi stand-up seat, wood

Kango

Work chair, with castors

Stool, with glides

Semi stand-up, with glides

With multi-ply varnished beech wood seats/backrests

Bonded beech plywood with clear varnish. Ergonomically designed seat and backrest. Wide tray seat, double curved.

- Ecological
- Easily adjustable
- Dust resistant
- Gas lift column with height adjustment and shock absorber
- 5-branch scuff resistant reinforced base

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Description	Height (mm)	Foot form	Foot ring	With	Pk	Cat. No.
Work chairs						
Ergonomic seat with double curve with articulated and adjustable in depth and polyamide base	540 - 780	Glides	Height adjustable, PA	Black gas-lift column	1	**139-1009**
Stools						
Round seat, thickness 22 mm with chrome base	370 - 500	Glides	-	Chrome gas-lift column	1	**139-0098**
Round seat, thickness 22 mm with chrome base	410 - 540	Wheels	-	Chrome gas-lift column	1	**139-0099**
Round seat, thickness 22 mm with polyamide base	440 - 570	Wheels	-	Black gas-lift column	1	**139-0104**
Semi stand-up seats						
Ergonomic seat with double curve with chrome base	510 - 750	Glides	height adjustable, PA	Chrome gas-lift column	1	**132-7866**
Ergonomic seat with double curve and polyamide base	540 - 780	Glides	height adjustable, PA	Black gas-lift column	1	**139-0105**

Stools, seating supports and work chairs, vinyl
Kango

Work chair, asynchronous

Stool with glides

Semi-stand seat, with glides

With PVC coverings

Chrome gas lift column with height adjustment and shok absorber. 5-branch scuff resistant reinforced base. Hard-wearing PVC cover.

- Seat is surrounded by an edge protection strip
- Ergonomically designed seat with slip-resistant surface
- Available with castors or glides
- Can also be equipped with a foot ring

Work chairs

- Shaped backrests with rounded edges
- Backrest with pendulum bearing, can be adjusted up or down
- Also available with adjustable seat and backrest tilting

Stools

- Compact, polyvalent, easy to disinfect and easily adjustable
- Round seats

Semi stand-up seats

- Seat slick surfaces, soft, easy to disinfect and easily adjustable
- Tilted forward seat

Description	Height (mm)	Foot form	Foot ring	With	Pk	Cat. No.
Work chairs						
Ergonomic low seat with an articulated backrest, adjustable in depth and height, with a chrome reinforced base	440 - 570	Wheels	-	Chrome gas-lift column	1	**139-1005**
Ergonomic low seat seat with an articulated backrest, adjustable in depth and height, with a PA reinforced base	470 - 600	Wheels	-	Black gas-lift column	1	**139-1006**
Work chairs, asynchronous						
Ergonomic low seat with an articulated backrest, adjustable in height; independently adjustable tilt with one fingertip lever and a chrome reinforced base	450 - 580	Wheels	-	Chrome gas-lift column	1	**139-0096**
Ergonomic high seat with an articulated backrest, adjustable in height; independently adjustable tilt with one fingertip lever and a chrome reinforced base	550 - 790	Glides	Aluminium	Chrome gas-lift column	1	**139-0097**

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Description	Height (mm)	Foot form	Foot ring	With	Pk	Cat. No.
Stools						
Round seat with a chrome reinforced base	550 - 790	Glides	PA	Chrome gas-lift column	1	**132-7809**
Round seat with a PA reinforced base	440 - 570	Glides	-	Black gas-lift column	1	**139-0086**
Round seat with a PA reinforced base	480 - 610	Wheels	-	Black gas-lift column	1	**139-0087**
Round seat with a PA reinforced base	580 - 820	Glides	-	Black gas-lift column	1	**139-1004**
Round seat with a PA reinforced base	580 - 820	Glides	PA	Black gas-lift column	1	**139-0089**
Semi stand-up seats						
Ergonomic seat with reinforced base	400-530	Glides	-	Chrome gas-lift column	1	**132-7819**
Ergonomic seat with chrome reinforced base	540 - 780	Glides	PA	Chrome gas-lift column	1	**132-7822**
Ergonomic seat with PA reinforced base	430 - 560	Glides	-	Black gas-lift column	1	**139-0090**

Stools and seating aids

Kango

With PU seats

Chrome-plated column and five-point base. Hard wearing PU seats and back rests.

Seat squab has edge protection strip around all edges. Seat is ergonomically designed with anti-slip surface.

Stools

- No staples or seams
- Abrasion-resistant
- Easily adjustable
- Available with castors or glides; can also be equipped with a foot support ring

Seating stands

- Comfortable and airy surface
- No staples or seams
- Abrasion-resistant
- Easily adjustable
- With glides and foot ring

Description	Height (mm)	Foot form	Foot ring	With	Pk	Cat. No.
Stools						
Round low seat in PU and chrome, 5-branch, scuff-resistant, reinforced base	440 - 570	Wheels	-	Chrome gas-lift column with height adjustment and shock absorber	1	**132-0447**
Round high seat in PU and chrome, 5-branch, scuff-resistant, reinforced base	540 - 780	Glides	+ (in PA, height adjustable)	Chrome gas-lift column with height adjustment and shock absorber	1	**132-0448**
Seating stands						
Ergonomic semi-stand up seat in PU, tilted forward, with carry handle and 5-branch scuff-resistant reinforced base	540-780	Glides	-	Chrome gas-lift column with height adjustment and shock absorber	1	**132-0449**

Laboratory chairs, Neon
BIMOS

- Permanent contact backrest
- Ergonomic package with height, seat inclination, seat depth and backrest height adjustment
- Easy change of upholstery
- Flex strip available in 3 colours
- 5-star base made of aluminium, powder coated black

Description	Height (mm)	Foot form	Foot ring	Pk	Cat. No.
Laboratory chair Neon with PU foam upholstery, seat and backrest black with a grey flex strip	590 - 870	With stop-and-go-castors	Yes	1	**132-0901**
Laboratory chair Neon with PU foam upholstery, seat and backrest black with an orange flex strip	590 - 870	With stop-and-go-castors	Yes	1	**132-0902**
Laboratory chair Neon with PU foam upholstery, seat and backrest black with a green grey flex strip	590 - 870	With stop-and-go-castors	Yes	1	**132-0903**
Laboratory chair Neon with synthetic leather upholstery, seat and backrest black with a grey flex strip	590 - 870	With stop-and-go-castors	Yes	1	**132-0904**
Laboratory chair Neon with synthetic leather upholstery, seat and backrest black with an orange flex strip	590 - 870	With stop-and-go-castors	Yes	1	**132-0905**
Laboratory chair Neon with synthetic leather upholstery, seat and backrest black with a green flex strip	590 - 870	With stop-and-go-castors	Yes	1	**132-0906**
Laboratory chair Neon with PU foam upholstery, seat and backrest black with a grey flex strip	450 - 620	Safety castors for hard floors	No	1	**132-0910**
Laboratory chair Neon with PU foam upholstery, seat and backrest black with a orange flex strip	450 - 620	Safety castors for hard floors	No	1	**132-0911**
Laboratory chair Neon with PU foam upholstery, seat and backrest black with a green flex strip	450 - 620	Safety castors for hard floors	No	1	**132-0912**
Laboratory chair Neon with synthetic leather upholstery, seat and backrest black with an orange flex strip	450 - 620	Safety castors for hard floors	No	1	**132-0914**
Laboratory chair Neon with synthetic leather upholstery, seat and backrest black with a green flex strip	450 - 620	Safety castors for hard floors	No	1	**132-0915**
Laboratory chair Neon with fabric upholstery, seat and backrest black with a green flex strip	450 - 620	Safety castors for hard floors	No	1	**139-0437**

Description	Pk	Cat. No.
Accessory for chairs, Neon		
4D-armrests for chairs, Neon, adjustable in height, breadth and depth, can also be swivelled	1	**132-0919**

5 year warranty

Standing support, FIN
BIMOS

The seat made from soft touch PU foam

Almost every employee has to work standing up for long periods of time. But standing over prolonged periods subjects the human body to significant stress and is responsible for a number of complaints relating to the heart and the circulatory and musculoskeletal systems.

- Comfortable: extra-wide comfort seat
- Stable base and robust aluminium column which is inclined by 4 degrees that ensure complete stability while moving and encourage the correct active working posture
- Flexibility and freedom: the seat can be swivelled 20 degrees to left and right
- Easy to adjust with the handle underneath the seat
- Space saving design
- Light and easy to move around

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Description	Height (mm)	Foot form	Foot ring	With	Pk	Cat. No.
Standing support, black seat and blasted aluminium frame	660–930	Changeable glides	No	Gas spring	1	**132-0891**
Standing support, blue seat and blasted aluminium frame	660–930	Changeable glides	No	Gas spring	1	**132-0892**
Standing support, grey seat and blasted aluminium frame	660–930	Changeable glides	No	Gas spring	1	**132-0893**
Standing support, orange seat and blasted aluminium frame	660–930	Changeable glides	No	Gas spring	1	**132-0894**
Standing support, ESD version, black seat and blasted aluminium frame	660–930	Changeable glides	No	Gas spring	1	**132-0899**

Folding steps
Guenzburger Steigtechnik

Foldable steps with handle, sturdy double side-rails, grooved aluminium steps (205 x 360 mm).

- Easy fold away
- Non-slip and robust for a safe working
- Measures 85 mm in depth when folded

GS tested; in accordance with European standard DIN EN 14183.
Action manual BGI 694 and the applicable accident prevention regulations.

Description	Colour	Height (mm)	Weight (kg)	Pk	Cat. No.
Folding step with 2 rungs with one handle	Grey	42	5	1	**139-1020**
Folding step with 3 rungs with one handle	Grey	64	7	1	**139-1021**

Folding steps
Guenzburger Steigtechnik

Foldable steps with handle, sturdy double side-rails, grooved aluminium steps (205 x 360 mm), foldable bracket and tray.

- Non-slip feet
- Robust and safe
- Only 125 mm in depth when folded
- 15 years quality guarantee

GS tested.

Description	Number of steps	Working reach up to approx.	Base spread	Height of the top step	Weight (kg)	Pk	Cat. No.
Folding step	3	2700 mm	820 mm	640 mm	9	1	**139-0426**
Folding step	4	2900 mm	1100 mm	860 mm	11,5	1	**139-0427**
Folding step	5	3100 mm	1139 mm	1100 mm	13,5	1	**139-0428**

Single-sided step ladders, with castors
Guenzburger Steigtechnik

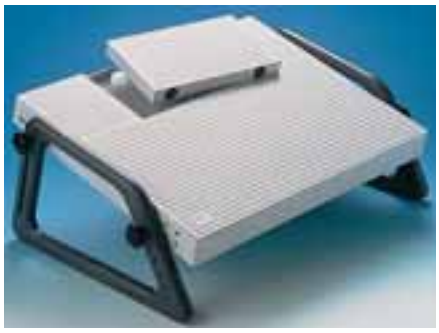
Ascendable on one side, grooved steps with a depth of 80 mm with durable step-to-side-rail connection, non-slip nivello® ladder feet. High standing safety ensured by conical construction.

- Connection on both sides by two detachable metal struts
- Four self-locking fixed castors at the side-rail ends
- Spacing between steps: 235 mm
- Ladder inclination: 20°

GS tested; in accordance with European standard DIN EN 14183.
Action manual BGI 694 and the applicable accident prevention regulations.

Description	Colour	Number of steps	Working reach up to approx.	Height (mm)	Platform height	Weight (kg)	Pk	Cat. No.
Step ladder with 3 steps	Grey	3	2750 mm	1370	700 mm	8,1	1	**139-0650**
Step ladder with 3 steps and step-pads	Grey/Black	3	2750 mm	1370	700 mm	8,1	1	**139-0652**
Step ladder with 3 steps and slip-resistant clip-step inserts	Grey/Black	3	2750 mm	1370	700 mm	8,1	1	**139-0651**

Footrest, relax



- Adjustable in height and inclination
- Recess for foot switch
- The ribbed platform ensures a firm grip and avoids slipping

In compliance with DIN standard 4556, GS tested.

Description	Colour	W×D×H (mm)	Weight (kg)	Pk	Cat. No.
Footrest, relax	Light Grey	490×350×190	2,4	1	**139-9923**

Stools, mobile, STEP

These robust kick stools are manufactured from a recyclable UV resistant PP and mounted on three castors allowing complete mobility. When in use the castors retract, providing a secure platform.

- Supports up to 150 kg
- Snap-Lock assembly, no tools required

EN 14183 (DIN 4569), TÜV GS approved.

Description	Colour	Foot form	Height (mm)	Ø top/Ø bottom (mm)	Weight (kg)	Pk	Cat. No.
Kickstool	White	Castors	435	290/440	3,7	1	**139-9801**
Kickstool	Mid grey	Castors	435	290/440	3,7	1	**139-9803**
Kickstool	Light Grey	Castors	435	290/440	3,7	1	**139-9804**

Stools, mobile, metal

Manufactured from strong powder coated steel and mounted on three castors allowing complete mobility. When in use the castors retract, providing a secure platform.

- Non slip rubber mats, lead and cadmium free lacquer
- TÜV GS approved, supports up to 150 kg
- Snap-Lock assembly, no tools required

EN 14183 (DIN 4569)

Description	Colour	Height (mm)	Ø top/Ø bottom (mm)	Weight (kg)	Pk	Cat. No.
Kickstool, metal	Black	440	295/435	5,7	1	**139-9926**
Kickstool, metal	Red	440	295/435	5,7	1	**139-9927**
Kickstool, metal	Blue	440	295/435	5,7	1	**139-1176**
Kickstool, metal	Light Grey	440	295/435	5,7	1	**139-1187**

Transport trolleys
Metro International

Chrome-plated steel frame with HDPE trough shaped trays

The troughs are 70 mm deep and enable liquids to be transported safely retaining any spillage. The height of the middle tray can be adjusted. Available in 2 sizes, with 2 or 3 trays.

- Stable, tough and versatile, easy to clean
- Load capacity: Max. 65 kg for each tray; combined 180 kg
- Rubber wheels to protect floors

W×D×H (mm)	Shelves	Colour	Pk	Cat. No.
Shelf size: 830×545 mm				
830×545×1040	2	Grey	1	**139-9991**
830×545×1040	3	Blue	1	**139-9812**
830×545×1040	3	Grey	1	**139-0057**
Shelf size: 985×690 mm				
985×690×1040	2	Blue	1	**139-9813**
985×690×1040	2	Grey	1	**139-9993**
985×690×1040	3	Blue	1	**139-9814**
985×690×1040	3	Grey	1	**139-9994**

Transport trolley, folding

Aluminium frame with plastic construction

Easily manoeuvrable, multi-purpose, two-level trolley. Can be folded flat in seconds at the press of a button. Equipped with one folding box with 46 l capacity (additional folding boxes can be ordered optionally by quoting item number 139-0204).

- Steerable castors for excellent manoeuvrability, parking brake on the rear wheels
- Each tray can carry one folding box at the same time
- Load capacity: Bottom level 40 kg, top level 20 kg
- WxDxH: folded: 710×550×190 mm; assembled: 900×580×1020 mm

Description	W×D×H (mm)	Weight (kg)	Pk	Cat. No.
Trolley, foldable	900×580×1020	6,7	1	**139-1107**

Description	Pk	Cat. No.
Accessories		
Foldable box, 46 litre	1	**139-0204**

Transport trolleys
Hupfer Metallwerke

Stainless steel

Transport trolley with high-quality stainless steel construction, complete with 25 mm deep shelves. Shelves complete with bevelled edges for user comfort.

- Bumper type wall deflectors
- Anti-static tyres
- Chassis complete with 4 swivel castors, front two lockable

Description	W×D×H (mm)	Shelves	Pk	Cat. No.
Transport trolley MSW 8×5/2, version standard, 2 shelves W×D: 800×500 mm	900×600×960	2	1	**139-9940**
Transport trolley MSW 6×4/2, version standard, 2 shelves W×D: 600×400 mm	700×500×895	2	1	**139-1025**
Transport trolley MSW 10×6/2, version standard, 2 shelves W×D: 1000×600 mm	1095×695×960	2	1	**139-1022**
Transport trolley MSW 8×5/2, with heavy-duty, 2 shelves W×D: 800×500 mm	900×600×1030	2	1	**139-1024**

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Description	W×D×H (mm)	Shelves	Pk	Cat. No.
Transport trolley MSW 8×5/3, version standard, 3 shelves W×D: 800×500 mm	900×600×960	3	1	**139-9909**
Transport trolley MSW 10×6/3, version standard, 3 shelves W×D: 1000×600 mm	1095×695×960	3	1	**139-1023**
Transport trolley MSW 8×5/4, version standard, 4 shelves W×D: 800×500 mm	900×600×1280	4	1	**139-9945**

Emergency torches

These torches are designed for emergencies. Fifteen to thirty seconds of shaking provides enough power for 5 min light (Eternity) or up to 1 hour (Infinity).

- No battery needed
- Continuous bright light
- Single LED light visible up to 1,5 km

Description	Pk	Cat. No.
Emergency torch, Eternity, 171×38 mm	1	**139-0033**
Emergency torch, Eternity, 290×48 mm	1	**139-0034**
Emergency torch, Infinity, 171×50,8 mm	1	**620-1263**

Batteries
Varta

139-2225

139-2205

139-2207

Description	Type	Pk	Cat. No.
High Energy alkaline manganese	9V-Block/6LR61	1	**139-2207**
High Energy alkaline manganese	C/LR14	2	**139-2205**
High Energy alkaline manganese	D/LR20	2	**139-2206**
Longlife zinc chloride	4,5 V/3R12P	1	**139-0044**
Longlife zinc chloride	D/R14P	2	**139-2225**

Batteries, rechargeable
Varta

High capacity with long operating times per charge. Do not require a special charger.

- Can be recharged up to 1000 times

Description	Type	Voltage (V)	Capacity (mAh)	Pk	Cat. No.
Power Accus, 9V block	HR6F22	8,4	200	1	**139-0038**
Longlife Accus, AA	HR6	1,2	2100	4	**139-0040**

Batteries/button batteries, Varta
Varta

Long life batteries. For use in electronic appliances, calculators, cameras, etc.

Description	Type	Pk	Cat. No.
Battery, alkaline manganese	V23GA	1	**139-2262**
Button, alkaline manganese	V10GA/LR54	1	**139-2263**
Button, alkaline manganese	V13GA	1	**139-2264**
Button, lithium	CR2016	1	**139-2265**
Button, lithium	CR2025	1	**139-2266**
Button, lithium	CR2032	1	**139-2267**
Button, lithium	CR1220	1	**139-2268**
Button, lithium	CR1620	1	**139-2269**

Batteries/button batteries for special applications, Varta

Varta

Longlife batteries for cameras and clocks.

Description	Type	Pk	Cat. No.
Button, alkaline manganese	V364/SR60	1	**139-2281**
Button, alkaline manganese	V76PX/SR44	1	**139-2291**
Battery, lithium	2CR5	1	**139-2295**
Battery, lithium	CR123A/CR17345	1	**139-2292**
Battery, lithium	CR2	1	**139-2293**
Battery, lithium	CRP2	1	**139-2296**

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Draining rack

Wire, vinyl coated

With 18 draining rods, 127 mm long for large containers and 72 draining rods, 76 mm long for smaller containers.

- May be used on the bench or as a wall rack
- Drip tray can be removed from the side for easy emptying

Description	W×D×H (mm)	Pk	Cat. No.
Drying rack	457×181×525	1	**211-0196**

Draining rack, wall mounted
Kartell

PS, white

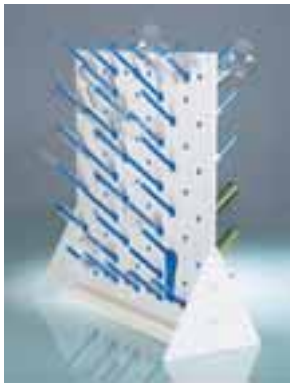
With integral extra wide draining channel and 72 draining rods which are 95 mm long, 15 mm Ø. The rod insertion apertures are closed at the back. This prevents water from seeping into the wall.

- The draining rods can be inserted and replaced as required
- Supplied complete with drainage tube and fixtures for wall mounting
- Optional rods for narrow-necked vessels are available to order under article number 212-6109

Description	W×D×H (mm)	Pk	Cat. No.
Draining rack	450×110×630	1	**149-1310**

Description	Ø×L (mm)	Pk	Cat. No.
Accessories			
Rods for narrow-necked vessels	6×95	11	**212-6109**

Draining racks, benchtop



PVC rack, PP rods

The stable rods are individually placed into the holes of the draining rack and are clicked into place. Their positions can be changed at any time. Using a combination of rods of three different lengths (60 mm, 100 mm and extension to 150 mm), the draining rack can be adapted to any apparatus which is to be dried.

- Stable bench top rack, can use both sides
- Rods are simply clicked into place
- Collecting pan can be easily removed for emptying

Description	W×H (mm)	Pk	Cat. No.
Flexible, PVC, with PP rods 60 mm (5), 100 mm (26) and 150 mm (2)	400×400	1	**141-0257**
Flexible, PVC, with PP rods 60 mm (10), 100 mm (39) and 150 mm (4)	500×500	1	**141-0258**
Flexible, PVC, with PP rods 60 mm (15), 100 mm (56) and 150 mm (6)	600×600	1	**141-0259**

Description	Pk	Cat. No.
Accessories		
Rods, PP, Ø×L: 6×60 mm	1	**149-0190**
Rods, PP, Ø×L: 10×100 mm	1	**149-1335**
Extension for use with 149-1335, PP, Ø×L: 12×150 mm	1	**149-1336**

Draining rack
SciLabware

Wire, epoxy coated

High quality draining rack made from chemically resistant epoxy coated steel. Suitable for use with plastic and glass labware.

- Eight pegs 110 mm and 24 pegs 80 mm long
- Available either wall mountable or with free-standing support for bench top use

Description	W×D×H (mm)	Pk	Cat. No.
Rack only	300×110×410	1	**212-7543**
Rack with integral free standing support	300×110×410	1	**212-7544**

Pipette rinsing sets
Kartell

HDPE

For cleaning pipettes gently and efficiently using the syphon principle. The entire washing system consists of the washer, cleaning container and pipette basket.

- Heat-resistant up to +105 °C
- Good chemical resistance
- Components should be ordered separately to build the set

Description	For	Pk	Cat. No.
Pipette washer	Pipette length 600 mm	1	**149-1111**
Pipette washer	Pipette length 460 mm	1	**149-1110**
Pipette jar	Pipette length 600 mm	1	**149-1122**
Pipette basket	Pipette length 600 mm	1	**149-1131**
Pipette jar	Pipette length 460 mm	1	**149-1121**
Pipette basket	Pipette length 460 mm	1	**149-1130**
Pipette jar	Pipette length 200 mm	1	**149-1120**

Description	Pk	Cat. No.
Extension handle	2	**141-0157**

VWR COLLECTION

SELECTED FOR YOU

Cleaning brushes for flasks and bottles

White, natural bristles with flexible plastic handle

Ideal for cleaning Erlenmeyer flasks, round and flat bottom flasks, Kjeldahl flasks, pear-shaped flasks, reagent and measuring flasks, and bottles.

- Angled handle passes easily through the neck of bottles and flasks
- Flexible, pliable brush head adapts to the shape of the container to be cleaned
- With hanging loop

Material	Head Ø (mm)	Trimming length (mm)	Total length (mm)	Pk	Cat. No.
Natural bristle	35	89	300	5	**149-0108**
Natural bristle	38	100	350	5	**149-0109**
Natural bristle	44	125	430	5	**149-0110**

Cleaning brush for flasks and bottles

White natural bristles with plastic handle

Ideal for cleaning flasks and bottles.

- Flexible, pivoting plastic handle enables all the curved surfaces of flasks and bottles to be thoroughly cleaned
- Autoclavable
- Extra wide handle for a secure, comfortable grip

Material	Head Ø (mm)	Trimming length (mm)	Total length (mm)	Pk	Cat. No.
Natural bristle	38	100	400	5	**149-0106**

Cleaning brushes for gas washing bottles and cylinders

White or black nylon, with wire handle

These cleaning brushes are specially designed for cleaning gas washing bottles, cylinders, and large test tubes.

- With tied tip to reduce the danger of scratching and improve cleaning intensity
- Wire handle for secure grip
- With hanging loop

Description	Material	Head Ø (mm)	Trimming length (mm)	Total length (mm)	Pk	Cat. No.
Brush, white	Nylon bristle	41	100	280	3	**149-0224**
Brush, black	Nylon bristle	60	150	500	3	**149-0202**
Brush, white	Natural bristle	44	112	280	3	**149-0223**

Cleaning brushes for test tubes

White bristles with wire handle

Ideal for cleaning test tubes and a wide range of other laboratory utensils.

- With one or two tip ties to minimise risk of scratching and improve cleaning intensity
- Wire handle for secure grip
- With hanging loop

Material	Head Ø (mm)	Trimming length (mm)	Total length (mm)	Pk	Cat. No.
Natural bristle	13	75	200	5	**149-0218**
Natural bristle	19	81	230	5	**149-0213**
Natural bristle	35	100	250	5	**149-0214**
White nylon bristles	11	75	230	5	**149-0208**
White nylon bristles	13	78	200	5	**149-0219**
White nylon bristles	19	81	230	5	**149-0220**
White nylon bristles	35	100	250	5	**149-0221**

Brushes, tubes

White bristles in the centre of galvanized wire

- Wire can be bend to adapt to shape of tube
- Suitable for small tubes

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Material	Head Ø (mm)	Trimming length (mm)	Total length (mm)	Pk	Cat. No.
Natural bristle in the centre	10	75	750	10	**149-0019**
Natural bristle in the centre	12,5	75	900	10	**149-0020**

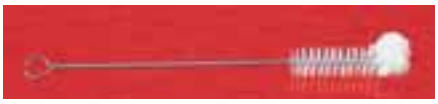
Brush, test tube

Brushes with slightly conical head and soft cotton yarn tip

- Suitable for use with 12,5 - 16 mm bore tubes
- White bristles, galvanized wire

Material	Head Ø (mm)	Trimming length (mm)	Total length (mm)	Pk	Cat. No.
Natural bristle/cotton tip	13 - 24	75	185	10	**149-0012**

Brushes, test tubes



Brushes with nylon bristles and cotton yarn tip, on galvanized wire

- Particularly suitable for small tubes

Material	Head Ø (mm)	Trimming length (mm)	Total length (mm)	Pk	Cat. No.
White nylon/cotton tip	17	75	240	10	**149-0021**
White nylon/cotton tip	24	75	240	10	**149-0022**

Cleaning brush for glass beakers

White nylon bristles with plastic handle

Ideal for cleaning glass beakers and other cylindrical laboratory utensils.

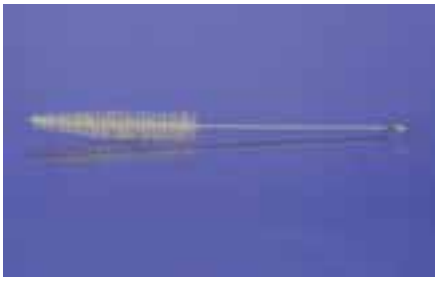
- Durable, tough brushes
- FDA and USDA approved
- Autoclavable

Material	Head Ø (mm)	Trimming length (mm)	Total length (mm)	Pk	Cat. No.
White nylon bristles	68	100	300	1	**149-0135**

Beaker brush

Description	Material	Head Ø (mm)	Total length (mm)	Pk	Cat. No.
Beaker brush with wooden handle	Natural bristle	70	400	1	**149-0000**

Cleaning brushes for small vessels



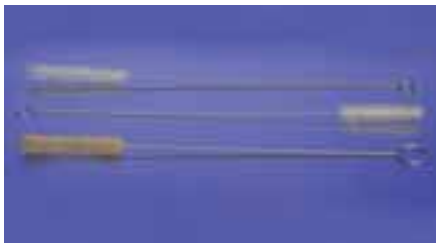
White nylon bristles, with wire handle

These brushes are specially designed for cleaning small tubes, pipes, and a wide range of small containers.

- Rounded tip for gentle but thorough cleaning
- Wire handle for secure grip
- With hanging loop

Material	Head Ø (mm)	Trimming length (mm)	Total length (mm)	Pk	Cat. No.
Nylon bristle	25	100	1000	1	**141-0327**
Nylon bristle	5 - 13	75	180	5	**149-0203**

Cleaning brushes for small vessels



White bristles with wire handle

Ideal for cleaning reagent flasks, burettes, pipettes, tubes and a wide variety of other laboratory articles with small diameters.

- Available with white nylon bristles or white natural bristles
- Wire handle for secure grip
- With hanging loop

Material	Head Ø (mm)	Trimming length (mm)	Total length (mm)	Pk	Cat. No.
White nylon bristles	13	63	300	5	**149-0216**
White nylon bristles	13	75	300	5	**149-0217**
Natural bristle	13	75	300	5	**149-0222**

Brush, bottle

Nylon bottle brush with tuft end.

Material	Head Ø (mm)	Total length (mm)	Pk	Cat. No.
Nylon	38,1	254	1	**149-0007**

Bottle brushes

Description	Material	Head Ø (mm)	Total length (mm)	Pk	Cat. No.
Bottle brush, wire handle with white natural trimming, T310	Natural bristle	41	300	10	**149-0008**
Bottle brush, wire handle with white natural trimming, T397	Natural bristle	50	350	10	**149-0009**
Bottle brush, wire handle with white natural trimming, T398	Natural bristle	65	406	10	**149-0010**

Bottle brushes

Description	Material	Head Ø (mm)	Total length (mm)	Pk	Cat. No.
Bottle brush with wire handle	White nylon bristles	45	300	1	**149-0003**
Bottle brush with wire handle	White nylon bristles	50	300	1	**149-0004**
Bottle brush with wire handle	White nylon bristles	65	300	1	**149-0005**
Bottle brush with wire handle	White nylon bristles	76	300	1	**149-0006**

Cleaning brush for burettes

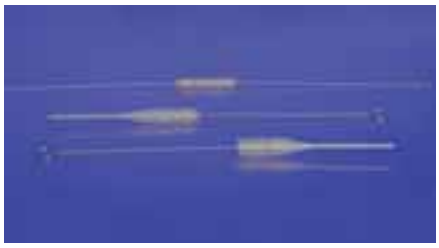
White natural bristles with wire handle

Ideal for cleaning burettes, pipettes and long tubing.

- Long, flexible handle
- Fan tip prevents scratching
- With hanging loop

Material	Head Ø (mm)	Trimming length (mm)	Total length (mm)	Pk	Cat. No.
Natural bristle	32	131	900	5	**149-0215**

Cleaning brushes for pipettes



White nylon bristles with wire handle

Ideal for cleaning volumetric pipettes, milk pipettes, and Mohr pipettes.

- Soft nylon bristles for gentle, thorough cleaning
- Long wire hande for secure grip
- With hanging loop

Material	Head Ø (mm)	Trimming length (mm)	Total length (mm)	Pk	Cat. No.
Nylon bristle	5 - 19	190	430	5	**149-0210**
Nylon bristle	5 - 23	190	430	5	**149-0211**
Nylon bristle	13	75	600	5	**149-0228**

Brush, sieve cleaning

Stiff and soft brush heads at opposite ends with wooden handle

- Hard and soft cleaning in one brush

Material	Head width (mm)	Trimming length (mm)	Total length (mm)	Pk	Cat. No.
Stiff white/soft black nylon	8 mm	20	250	1	**300-1012**

Brushes, flat head

Flat head brushes with wooden handle

- Soft natural bristles, black
- Choice of 4 widths

Material	Head width (mm)	Trimming length (mm)	Total length (mm)	Pk	Cat. No.
Natural soft black bristle	12,5 mm	55	220	1	**300-1015**
Natural soft black bristle	19 mm	55	220	1	**300-1016**
Natural soft black bristle	25 mm	55	220	1	**300-1013**
Natural soft black bristle	38 mm	55	220	1	**300-1014**

Brushes, pencil

Pencil brushes with red lacquered wooden handle

- Soft natural bristles, black

Material	Head Ø (mm)	Trimming length (mm)	Total length (mm)	Pk	Cat. No.
Black natural bristles	3	18	190	10	**300-1009**
Black natural bristles	8	18	190	10	**300-1010**
Black natural bristles	5	18	190	10	**300-1017**

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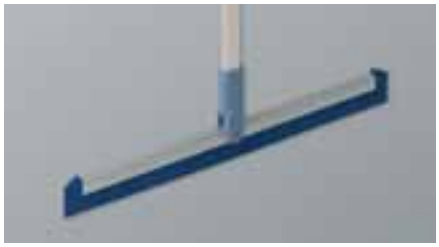
Microfibre Mop system

129-0451



129-0459

The VWR® Microfibre Mop system offers a total cleaning solution for cleaning floors, walls and ceilings. This system does not require any specific training as it is very simple and flexible to use.

The VWR® Microfibre Mop cleaning system consists of:

- a stainless steel trolley equipped with a choice of either 2 or 3 buckets
- an ergonomic flat press
- an ergonomic telescopic handle and mop frame
- low friction microfibre VWR controlled environment mops

All components are autoclavable.

- Cost effective: one mop can clean up to 25 m^2
- Ergonomic and easy to use
- Depending on the need, the mop-frame unit can be inserted in the flat press in order to get the desired mop moisture: Wet for disinfection or damp-moist for cleaning

The VWR controlled environment Microfibre mop:

Made of 100% PES endless Microfibre. Laser cut for lint-free edges.

- Excellent mechanical cleaning performance
- For floors, walls and ceilings
- Heat and chemical resistant, suitable for sterilisation (autoclave or radiation)

Complies with both ISO Class 5 and GMP A+B requirements.

Description	Dimensions (mm)	Pk	Cat. No.
Mops			
VWR® Microfibre Mop cover - microfibre, 50 cm		1	**129-0451**
Handle and mop frames			
Aluminium telescopic handle		1	**129-0456**
Swep Duo Mop Frame		1	**129-0457**
Swep Duo Press		1	**129-0455**
Dustpans			
Squeegee 35 cm		1	**129-0459**
Dustpan		1	**129-0460**
Dustpan brush 25 cm with handle		1	**129-0839**
Buckets			
Bucket 6 l		1	**129-0458**
Bucket 25 l		1	**129-0454**
CE bucket trolley			
CE bucket system trolley "naked" for use with bucket and press trolley, suitable for autoclaving and ISO class 5	770×710×948	1	**141-0937**

Mops, 'T'Mop™
Micronova

Low-profile mop for cleaning floors, walls, and ceilings, and applying disinfectants and detergents in cleanrooms. Fabric slipcovers snap onto T-shaped stainless steel and Delrin® mop head/adapter. Size: 356 or 457 mm. Mop head/adapter attaches to universal handle.

- 180° swivel design makes it ideal for cleaning hard-to-reach areas
- All slipcover fabrics can be laundered
- NovaLite™ latex/rayon and NovaPoly™ polyester slipcovers are autoclavable

PVA slipcover: Bonded, non-woven, polyvinyl alcohol. 600% absorbency. Low linting. Extremely durable.

NovaLite™ slipcover: Latex exterior bonded with rayon. 400% absorbency. Can be used with strong disinfectants. Autoclavable.

NovaPoly™ slipcover: 100% polyester. Can be used with strong disinfectants. Autoclavable.

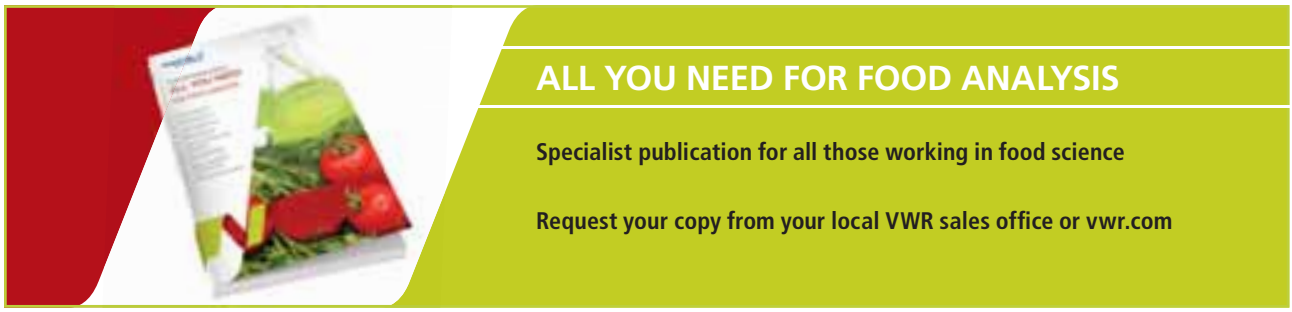
MicroFiber slipcover: 80% polyester, 20% polyamide. 400% absorbency. Can be used with strong disinfectants. Autoclavable.

MegaTex T Mops™: Non-woven. Polyamide textured thermo bonded surface. Can be used with strong disinfectants. Autoclavable.

Ordering information: Mop heads, handles and covers must be ordered separately.

Description	Pk	Cat. No.
Mop heads and mop covers		
PVA slipcover, width 356 mm	1	**129-0553**
PVA slipcover, width 457 mm	1	**129-0554**
NovaLite™ slipcover, width 356 mm	1	**129-0556**
NovaLite™ slipcover, width 457 mm	12	**129-0557**
NovaPoly™ slipcover, width 356 mm	1	**129-0559**
NovaPoly™ slipcover, width 457 mm	1	**141-0877**
NovaPoly™ slipcover, irradiated, width 356 mm	12	**141-0876**
NovaPoly™ slipcover, irradiated, width 457 mm	12	**141-0878**
NovaPoly™ slipcover with thick foam, width 356 mm	1	**129-0647**
NovaPoly™ slipcover with thick foam, width 457 mm	1	**129-0649**
Microfiber slipcover, width 356 mm	12	**141-0879**
Microfiber slipcover, width 457 mm	1	**141-0880**

Description	Length	Pk	Cat. No.
Universal handles, Quick Disconnect System			
Stainless steel extendable handle	965 – 1830	1	**129-0551**
Accessories			
Adapters for 14" (356 mm) mop head		1	**129-0281**
Adapters, for 18" (457 mm) mop head		1	**129-0541**
Universal Handles			
Handle, standard, stainless steel, SSU-7	1295	1	**129-0176**



Cart - 2 and 3 buckets system, SlimLine™
Micronova

Stainless steel/Delrin

Working directly with facility managers and cleanroom operators, Micronova has developed this series of customer carts to match the specific requirements of your controlled environment. The base of each cart system is an electropolished stainless steel frame. Wringer assemblies are sold separately so that you can further customise the cart to your exact mopping system.

- Smooth rolling
- Autoclavable casters
- Sturdy handle featuring three "grip its" for transporting handles and additional mopheads
- Autoclavable rectangular polypropylene buckets (6 gallon capacity)
- Application: Floors/walls

Description	Pk	Cat. No.
Stainless steel, double bucket cart, SlimLine™, includes blue and yellow PP buckets	1	**141-0104**
Stainless steel triple bucket cart, SlimLine™, includes blue, yellow and red PP buckets	1	**141-0105**

Description	Pk	Cat. No.
Accessories		
Replacement PP buckets, dark blue, B-7 series, with casters	1	**141-0103**
Replacement PP buckets, dark blue, B-7 series	1	**216-1488**
Replacement PP buckets, dark green, B-7 series	1	**216-1489**
Replacement PP buckets, red, B-7 series	1	**141-0092**
Replacement PP buckets, yellow, B-7 series	1	**141-0093**
Bucket liners, gamma irradiated for B-7 bucket series	24	**141-0091**
Slim "T" wringer fits B-7 series buckets	1	**141-0107**
Box wringer for string mops, fits B-7 series buckets	1	**216-1491**

Mops, wipes system, sterile, Klercide™
Ecolab®

Waterless system makes light work of cleaning walls, floors and ceilings. Uses sterile wipes impregnated with either 70% denatured ethanol (IMS), Klerclean-CR Neutral Detergent or Klercide-CR Biocides.

- Eliminates the need for a bucket system and time spent mixing concentrates
- Environmentally friendly disposal
- Autoclavable

Description	L×W	Pk	Cat. No.
Klercide™ sterile mop wipe frame and adjustable handle, 3036300	-	1	**148-0087**
Klerwipe 70% IMS low particulate mop wipe	250×600	200	**141-0152**
Klerwipe-CR Biocide A low particulate mop wipe	600×250	200	**148-0097**
Klerwipe-CR Biocide B low particulate mop wipe	600×250	200	**148-0098**
Klerwipe-CR Biocide C low particulate mop wipe	600×250	200	**148-0099**
Klerwipe-CR Biocide D low particulate mop wipe	600×250	200	**148-0100**
Klerwipe-CR neutral detergent low particulate mop wipe	600×250	200	**148-0101**

E-BUSINESS

More than just a webshop for all of your laboratory needs

Please visit us at vwr.com

Isolator cleaning Tool™
Micronova

Isolator tool

Handles

For use with isolators, containment, and bio-hoods in cleanroom and buffer areas. Low-profile tools fold down to fit through pass-throughs and docking devices. These isolator tools feature an angled head for easy application of disinfectant or detergent. Fabric slip covers are launderable and autoclavable, but can also be purchased irradiated. Modular, extendable over/under handles can be used fully extended or locked-in at a preferred angle to reach into confined spaces, then folded back down to pass easily in and out of docking devices, pass-throughs, and chambers.

NovaPoly™ covers: 100 % polyester: can be used with strong disinfectants. Autoclavable.

MegaTex™ covers: Non-woven. Polyamide textured thermo bonded surface. Can be used with strong disinfectants. Autoclavable.

Handles: Straight handles are available in electropolished stainless steel or plastic. Accordion handles are designed to deal with the unique space limitations in isolators and containment hoods. Available in 330 and 483 mm sizes, each section features a delrin hinge and quick disconnect to allow for attachment of additional sections or isolator tool itself.

Ordering information: Isolator tool, fabric covers and handles must be purchased separately.

Description	Colour	Length (mm)	Pk	Cat. No.
Isolator tools				
Isolator tool adapter, 229 mm			1	**129-0625**
Isolator tool adapter, plastic, 229 mm			1	**216-1490**
Covers				
Isolator Tool™ NovaPoly cover, 229 mm width	White		1	**129-0610**
Isolator Tool™ NovaPoly cover, irradiated, 229 mm width	White		50	**129-0611**
Isolator Tool™ NovaPoly/MegaTex cover, irradiated, 229 mm width	White		50	**129-0613**
Isolator Tool™ NovaPoly/MegaTex cover, 229 mm width	White		1	**129-0612**
Handles				
Straight handle, plastic		305	1	**141-0897**
Over under accordion handle		330	1	**129-0622**
Over under accordion handle		483	1	**129-0623**

Isolator and LAF cleaning tool, Klercide™
Ecolab®

Lightweight frame which is ideal for reaching into the corners of isolators and laminar flow cabinets. Made from 316 stainless steel and fully autoclavable.

Designed for use with single use sterile cleaning pads which are supplied gamma irradiated and double bagged.

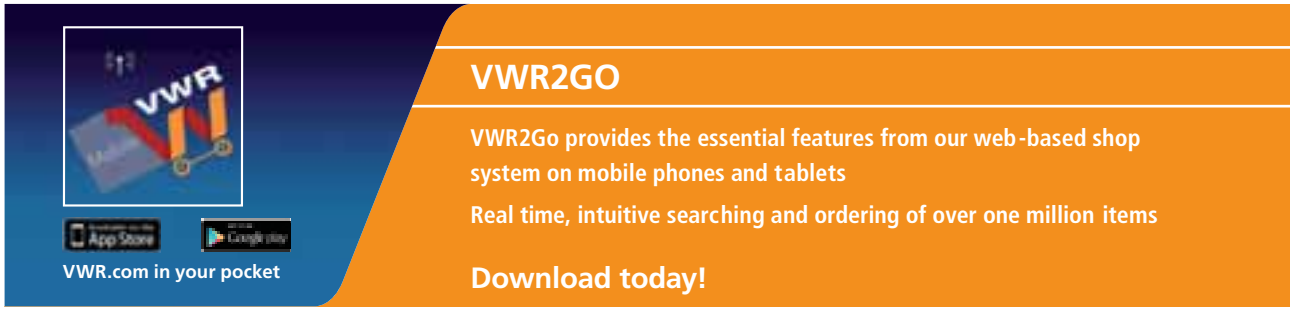
- Uses sterile disposable 100% polyester or low particulate covers
- Proven to significantly improve environmental results
- Sterilised by gamma irradiation and supplied double bagged
- Fully autoclavable

Standard tool has 600 mm reach. An autoclavable handle extension is available, giving an extra 300 mm reach. Please contact us for more details.

Description	Pk	Cat. No.
Isolator cleaning tool, with 2 disposable cleaning pads	1	**148-0107**
Isolator cleaning tool extension handle	1	**148-0108**
Isolator cleaning pads, sterile, 100% polyester	20	**148-0109**
Isolator cleaning pads, sterile, low particulate	20	**148-0110**

Hand brush and dust pan, soft

Description	Pk	Cat. No.
Dust pan and hand brush set, soft, blue	1	**141-0881**



VWR PROLABO CHEMICALS

SELECTED FOR YOU

Detergents and cleaning agents, LABWASH® Premium

LABWASH PREMIUM Classic

LABWASH PREMIUM Alkamatic

A more concentrated version of the LABWASH® range.

- Residue-free laboratory glassware cleaning
- Excellent cleaning power at low dosage levels
- NTA-free (no Nitrilotriacetic acid)
- Protects the environment, active ingredients are biodegradable
- Acid rinse concentrates available to neutralise alkaline cleaners

Application	Manual Cleaning					Machine cleaning							
	LABWASH® Premium Extra	LABWASH® Premium Neutral	LABWASH® Premium Extra PF	LABWASH® Premium Classic	Sodium Hydroxide solution	LABWASH® Premium Powder	LABWASH® Premium Powder PF	LABWASH® Premium Alkamatic	LABWASH® Premium Alkamatic PF	LABWASH® Premium Acidrinse P	LABWASH® Premium Acidrinse C	LABWASH® Premium EasyRinse	LABWASH® Premium Pure
Aldehyde resins	x		x	x									x
Aluminium		x											
Amines					x					x	x		x
Analytical laboratories	x	x	x	x		x		x				x	x
Balsam resins	x		x	x			x		x				x
Bitumen	x		x										
Blood	x		x	x			x						x
Brass		x											x
Breweries	x	x	x	x	x	x	x		x				x
Bronze		x					x						
Calcareous deposits					x					x	x	x	
Carbonates					x					x		x	
Cells		x		x								x	
Chemical glassware	x	x	x	x		x		x					
Culture media				x			x		x				
Dairies	x	x	x	x	x	x	x		x				
Distillation residues	x		x	x			x		x			x	
Enzymes	x	x	x	x		x	x	x	x	x	x		x
Fat residues	x		x	x			x						x
Felt-tip pen	x	x	x			x	x	x	x				
Foam													
Food industries	x	x	x	x	x	x	x		x				
Food waste	x	x		x		x	x	x	x				x
Glass and porcelain equipment	x	x		x			x		x			x	
Grease for joints	x			x			x		x				x
Heavy oils	x		x	x			x		x				x
Hydroxides					x					x	x		
Lab. floors	x		x		x								
Metal equipment		x				x		x					
Mucus				x									
Neutralisation					x					x			
Nickel	x	x	x			x					x		
Oil	x		x	x	x		x		x				
Petri dishes	x	x	x	x		x	x	x	x	x	x		

Continued on next page

Continued from previous page

Application	Manual Cleaning					Machine cleaning							
Phosphate analysis equip.			x										
Pipettes		x		x		x		x					
Plaster residues	x	x	x		x								
Plastic equipment						x		x				x	
Precision equipment		x		x									
Protein residues	x		x	x			x						
Proteins	x		x	x					x				
Quartz equipment		x											
Rubber		x											
Saliva	x		x	x									
Silicones	x		x						x		x		
Spectacle lenses		x											
Stainless steel	x	x	x	x	x				x				
Thin film plates	x		x		x	x							
Tiled surfaces	x		x		x				x				
Tough residues				x			x						
Ultrasound	x	x	x										
Wax	x		x	x									
Zinc		x											

Description	pH value	Temp. range (°C)	Pk	Cat. No.
Manual cleaning - immersion cleaning				
LABWASH® Premium Classic, mildly alkaline concentrate for manual cleaning of laboratory glassware	12,2	20...85	2,5 l	**84545.320**
	12,2	20...85	5 l	**84545.360**
	12,2	20...85	10 l	**84545.410**
LABWASH® Premium Extra, concentrate for the manual cleaning of laboratory glassware and precision components	11,8	10...40	2,5 l	**84546.320**
	11,8	10...40	5 l	**84546.360**
	11,8	10...40	10 l	**84546.410**
LABWASH® Premium Extra PF, phosphate-free concentrate for manual cleaning of laboratory glassware	12,7	10...70	2,5 l	**84554.320**
	12,7	10...70	5 l	**84554.360**
	12,7	10...70	10 l	**84554.410**
LABWASH® Premium Neutral, pH-neutral concentrate for the cleaning of laboratory glassware and precision components	7,4	10...60	2,5 l	**84547.320**
	7,4	10...60	5 l	**84547.360**
	7,4	10...60	10 l	**84547.410**
Automated cleaning - laboratory washing machines				
LABWASH® Premium Powder, mildly alkaline cleaning powder for laboratory washing machines	12,1	10...60	1 kg	**84548.290**
	12,1	10...60	10 kg	**84548.410**
LABWASH® Premium Powder PF, phosphate-free, alkaline powder cleaner for laboratory washing machines	13	0...95	1 kg	**84557.290**
	13	0...95	10 kg	**84557.410**
LABWASH® Premium Pure, concentrate for soak and spray cleaning of laboratory glassware	11,8	0...95	2,5 l	**84555.320**
	11,8	0...95	5 l	**84555.360**
	11,8	0...95	10 l	**84555.410**
LABWASH® PREMIUM Universel, highly alkaline liquid cleaning concentrate for laboratory washing machines	13,3	10...95	10 l	**84717.410**
	13,3	10...95	20 l	**84717.415**
LABWASH® Premium Alkamatic, mildly alkaline, liquid cleaning concentrate for washing machines	12	20...95	2,5 l	**84549.320**
	12	20...95	5 l	**84549.360**
	12	20...95	10 l	**84549.410**
LABWASH® Premium Alkamatic LA, highly alkaline, intensive cleaner for laboratory washing machines	12,5	20...95	2,5 l	**84556.320**
	12,5	20...95	5 l	**84556.360**
	12,5	20...95	10 l	**84556.410**
LABWASH® Premium Alkamatic PF, alkaline, phosphate-free, chlorine-free, liquid cleaning concentrate for washing machines for heavy contamination	11,6	10...95	2,5 l	**84550.320**
	11,6	10...95	5 l	**84550.360**
	11,6	10...95	10 l	**84550.410**
	11,6	10...95	20 l	**84550.440**
LABWASH® PREMIUM Neutraliz, acetic acid based neutraliser and pre-cleaner for laboratory washing machines	2,7	40...85	10 l	**84718.410**
	2,7	40...85	20 l	**84718.415**
LABWASH® Premium Acidrinse P, neutraliser and pre-cleaner for washing machines	2,1	40...85	2,5 l	**84552.320**
	2,1	40...85	5 l	**84552.360**
	2,1	40...85	10 l	**84552.410**
LABWASH® Premium Acidrinse C, phosphate-free neutraliser for washing machines	2,7	40...85	2,5 l	**84551.320**
	2,7	40...85	5 l	**84551.360**
	2,7	40...85	10 l	**84551.410**
	2,7	40...85	20 l	**84551.440**
LABWASH® Premium Easyrinse, acidic, ecological rinsing concentrate with shiny effect	2,2	0...60	2,5 l	**84553.320**
	2,2	0...60	5 l	**84553.360**
	2,2	0...60	10 l	**84553.410**

pH value at 1% concentration

Laboratory cleansers, Extran®

A range of cleansers, for both manual cleaning and machine washing, that has been developed to meet the cleaning requirement for glassware and small equipment in the laboratory.

- Prevents carry-over of residues to the next analysis
- Chlorine-free and biodegradable

Extran® detergents for manual use (MA)

The manual cleansers are provided as concentrates and the cleaning solutions are simply made up with tap water. Typically immersion for up to 2 hours is sufficient, but for particularly difficult residues the time period can be extended. Alternatively, warming the solution or use with an ultrasonic bath can speed up the process. To ensure no residues are left, the user can rinse initially with tap water and finally with distilled or demineralised water.

Extran® cleansers, liquid concentrates, for use with washing machines (AP)

These products have been developed with leading instrument manufacturers for their suitability for washing machines. The Extran® products have been tested extensively for their effectiveness and low degree of foaming. It is advisable to neutralise the alkaline cleansers with an acid rinse subsequent to the cleaning process. The alkaline cleansers, except Extran® AP 13, do not contain surfactants.

Description	Pk	Cat. No.
Extran® cleansers , liquid concentrates, for manual use (MA)		
Extran® MA 01, universal alkaline cleanser for heavy deposits, can be used with water up to 40° hardness	1 l	**1.07555.1000**
Extran® MA 01, universal alkaline cleanser for heavy deposits, can be used with water up to 40° hardness	2,5 l	**1.07555.2500**
Extran® MA 01, universal alkaline cleanser for heavy deposits, can be used with water up to 40° hardness	10 l	**1.07555.9010**
Extran® MA 01, universal alkaline cleanser for heavy deposits, can be used with water up to 40° hardness	25 l	**1.07555.9025**
Extran® MA 02, neutral cleanser for precision instruments made of glass and quartz and for sensitve metals	2,5 l	**1.07553.2500**
Extran® MA 02, neutral cleanser for precision instruments made of glass and quartz and for sensitve metals	5 l	**1.07553.5000**
Extran® MA 02, neutral cleanser for precision instruments made of glass and quartz and for sensitve metals	10 l	**1.07553.9010**
Extran® MA 02, neutral cleanser for precision instruments made of glass and quartz and for sensitve metals	25 l	**1.07553.9025**
Extran® MA 05, nitrilotriacetic acid (NTA)-free, phosphate-free, alkaline cleanser for heavy deposits for use without restriction in very hard water	2,5 l	**1.40000.2500**
Extran® MA 05, nitrilotriacetic acid (NTA)-free, phosphate-free, alkaline cleanser for heavy deposits for use without restriction in very hard water	5 l	**1.40000.5000**
Extran® MA 05, nitrilotriacetic acid (NTA)-free, phosphate-free, alkaline cleanser for heavy deposits for use without restriction in very hard water	10 l	**1.40000.9010**
Extran® MA 05, nitrilotriacetic acid (NTA)-free, phosphate-free, alkaline cleanser for heavy deposits for use without restriction in very hard water	25 l	**1.40000.9025**
Extran® cleansers for washing machines (AP)		
Extran® AP 11, mildly alkaline powder for gentle cleaning of objects in analytical laboratories, contains an anti-corrosion agent	2 kg	**1.07558.2000**
Extran® AP 11, mildly alkaline powder for gentle cleaning of objects in analytical laboratories, contains an anti-corrosion agent	10 kg	**1.07558.9010**
Extran® AP 11, mildly alkaline powder for gentle cleaning of objects in analytical laboratories, contains an anti-corrosion agent	25 kg	**1.07558.9025**
Extran® AP 12, alkaline powder for heavy deposits, starch and protein residues, not suitable for alkali-sensitive materials such as aluminium	2 kg	**1.07563.2000**
Extran® AP 12, alkaline powder for heavy deposits, starch and protein residues, not suitable for alkali-sensitive materials such as aluminium	10 kg	**1.07563.9010**
Extran® AP 12, alkaline powder for heavy deposits, starch and protein residues, not suitable for alkali-sensitive materials such as aluminium	25 kg	**1.07563.9025**
Extran® AP 13, alkaline powder for heavy deposits, particularly effective with fatty deposits	2 kg	**1.07565.2000**
Extran® AP 13, alkaline powder for heavy deposits, particularly effective with fatty deposits	25 kg	**1.07565.9025**
Extran® AP17 is a nitrilotriacetic acid (NTA)-free, liquid alkaline universal cleaning agent for the main wash cycle of washing machines. Also phosphate-free, surfactant-free, chlorine-free and free from odorants/dyestuffs	2,5 l	**1.40006.2500**
Extran® AP17 is a nitrilotriacetic acid (NTA)-free, liquid alkaline universal cleaning agent for the main wash cycle of washing machines. Also phosphate-free, surfactant-free, chlorine-free and free from odorants/dyestuffs	5 l	**1.40006.5000**
Extran® AP17 is a nitrilotriacetic acid (NTA)-free, liquid alkaline universal cleaning agent for the main wash cycle of washing machines. Also phosphate-free, surfactant-free, chlorine-free and free from odorants/dyestuffs	10 l	**1.40006.9010**
Extran® AP 18, nitrilotriacetic acid (NTA)-free, mildly alkaline liquid for gentle cleaning of objects in analytical laboratories, for use with machines with liquid dosing	2,5 l	**1.40118.2500**
Extran® AP 18, nitrilotriacetic acid (NTA)-free, mildly alkaline liquid for gentle cleaning of objects in analytical laboratories, for use with machines with liquid dosing	5 l	**1.40118.5000**
Extran® AP 18, nitrilotriacetic acid (NTA)-free, mildly alkaline liquid for gentle cleaning of objects in analytical laboratories, for use with machines with liquid dosing	10 l	**1.40118.9010**
Extran® AP 18, nitrilotriacetic acid (NTA)-free, mildly alkaline liquid for gentle cleaning of objects in analytical laboratories, for use with machines with liquid dosing	25 l	**1.40118.9025**
Extran® AP 21, liquid acidic rinse with phosphoric acid for pre-rinsing of carbonate, hydroxide, protein residues and post-washing neutralisation, also helps prevent build-up of limescale	2,5 l	**1.07559.2500**
Extran® AP 21, liquid acidic rinse with phosphoric acid for pre-rinsing of carbonate, hydroxide, protein residues and post-washing neutralisation, also helps prevent build-up of limescale	10 l	**1.07559.9010**
Extran® AP 21, liquid acidic rinse with phosphoric acid for pre-rinsing of carbonate, hydroxide, protein residues and post-washing neutralisation, also helps prevent build-up of limescale	25 l	**1.07559.9025**
Extran® AP 22, liquid acidic rinse with citric acid for gentle pre-rinsing and post-washing neutralisation, also helps prevent build-up of limescale	2,5 l	**1.07561.2500**
Extran® AP 22, liquid acidic rinse with citric acid for gentle pre-rinsing and post-washing neutralisation, also helps prevent build-up of limescale	10 l	**1.07561.9010**
Extran® AP 22, liquid acidic rinse with citric acid for gentle pre-rinsing and post-washing neutralisation, also helps prevent build-up of limescale	25 l	**1.07561.9025**
Extran® AP33 liquid anti-foaming reagent	2,5 l	**1.40007.2500**
Extran® AP 41, alkaline powder containing enzymes designed for removal of dried tissue, mucus and protein residues, with applications in hospitals, medical and dental practices	2 kg	**1.07570.2000**
Extran® AP 41, alkaline powder containing enzymes designed for removal of dried tissue, mucus and protein residues, with applications in hospitals, medical and dental practices	25 kg	**1.07570.9025**

Detergents, liquid, for automated cleaning of glassware, neodisher®

neodisher® FA

- Alkaline liquid concentrate for cleaning surgical instruments, anaesthetic and other medical laboratory equipment
- Components: 15 - 30% phosphates, disodium and potasium metasilicate
- Dosage: 2 - 4 ml/l

neodisher® LaboClean FLA

- Alkaline liquid concentrate for universal applications, free of phosphates, surfactants and oxidising agents
- Components: 5 - 15% polycarboxylates, NTA (nitrilotriacetic acid)
- Dosage: 2 - 6 ml/l

neodisher® LaboClean FT

- Alkaline liquid concentrate especially suitable for removal of residues of culture media, blood, proteins and other organic materials
- Components: Potassium hydroxide and sodium hypochlorite
- Dosage: 3 - 4 ml/l

Note: Most of the materials are corrosive or irritant and care must be taken with the choice of materials for cleaning aluminium and titanium items. Please read the Material Safety Data sheet before use.

Description	Pk	Cat. No.
neodisher® FA	5 l	**148-3142**
neodisher® LaboClean FLA	25 kg	**148-3149**
neodisher® LaboClean FT	12 kg	**148-3152**

Detergents, powder for automated cleaning of glassware, neodisher®

neodisher® LaboClean A8

- Alkaline powder for universal applications, free of surfactants
- Components: < 5% chlorine based bleaching agents; 15 - 30% phosphates; 1 - 5% dichloroisocyanuric acid sodium salt
- Dosage: 2 - 5 g/l

neodisher® LaboClean GK

- Mildly alkaline powder especially suitable for removal of residues of culture media, tissues, blood, proteins and organic dyes, free from surfactants
- Components: < 5% chlorinated bleaching agents (organic chlorine carriers); > 30% phosphates; 1 - 5% dichloroisocyanuric acid sodium salt
- Dosage: 2 - 5 g/l

neodisher® LaboClean UW

- Mildly alkaline powder for machine washing laboratory glassware
- Components: < 5% non-ionic surfactants, 5 - 15% oxygenated bleaching agents (perborate), 15 - 30% NTA
- Dosage: 3 - 5 g/l

Note: Most of the materials are corrosive or irritant and care must be taken with the choice of materials for cleaning aluminium and titanium items. Please read the Material Safety Data sheet before use.

Description	Pk	Cat. No.
neodisher® LaboClean A8 (1 kg)	12	**141-0938**
neodisher® LaboClean A8	10 kg	**148-3112**
neodisher® LaboClean A8	25 kg	**148-3113**
neodisher® LaboClean GK	10 kg	**148-3122**
neodisher® LaboClean UW	10 kg	**148-3183**

Neutralising agents for the automated cleaning of glassware, neodisher®

neodisher® N

- Acidic liquid concentrate for neutralisation of alkaline residues in the main automated cleaning cycle or for acidic pre-cleaning of laboratory glassware
- Components: > 30% phosphoric acid
- Dosage: 1 - 2 ml/l for neutralisation; 3 - 4 ml/l for acidic pre-cleaning

neodisher® Z

- Acidic liquid concentrate for neutralisation of alkaline residues in the main automated cleaning cycle or for acidic pre-cleaning of laboratory glassware. Free of phosphates and surfactants
- Components: Organic acids
- Dosage: 1 - 2 ml/l for neutralisation; 2 - 5 ml/l at 40 - 60 °C for acidic pre-cleaning

Note: The materials are corrosive or irritant and care must be taken with the choice of materials for cleaning aluminium and titanium items. Please read the Material Safety Data sheet before use.

Description	Packed	Pk	Cat. No.
neodisher® N	1 litre bottle	12	**141-0939**
neodisher® N	Plastic container	12 kg	**148-3193**
neodisher® N	5 litre plastic container	5 l	**148-3192**
neodisher® Z	5 litre plastic container	5 l	**148-3212**

Detergents, liquid and powder for manual cleaning of glassware, neodisher®

neodisher® LM 2

- Mildly alkaline liquid concentrate for washing surgical instruments and laboratory glassware by hand or in ultrasonic and immersion baths
- Components: < 5% amphoteric surfactants, anionic surfactants, 15 - 30% phosphates
- Dosage: 0,5 - 3,0%

neodisher® LM 3

- For washing laboratory glassware by machine and by hand
- Components: < 5% amphoteric surfactants, 5 - 15% NTA
- Dosage: 0,2 - 20%

neodisher® PM 5

- Mildly alkaline powder for washing surgical instruments and laboratory glassware by hand
- Components: < 5% non-ionic surfactants, anionic surfactants, 5 - 15% bleaching agents (percarbonates), >30%phosphates
- Dosage: 0,5 - 2%

Note: Most of the materials are corrosive or irritant and care must be taken with the choice of materials for cleaning aluminium and titanium items. Please read the Material Safety Data sheet before use.

Description	Packed	Pk	Cat. No.
neodisher® LM 2	10 litre plastic container	10 l	**148-3182**
neodisher® LM 3	10 litre plastic container	10 l	**148-3162**
neodisher® LM 3	1 litre bottle	12	**141-0940**
neodisher® PM 5	3 kg bucket	4	**141-0941**

Surface active cleaning agent for automatic glassware washing machines, decon® decomatic

Surface active cleaning agent for use in laboratory, medical and industrial automatic glassware washing machines. For machine cleaning and/or decontaminating glassware, ceramics, rubbers, plastics, stainless steel and ferrous metals. Being alkaline decon® decomatic is not suitable for use on non ferrous metals, notably aluminium and zinc or on polycarbonate. decomatic does not contain phosphates, enzymes, EDTA/NTA or chlorine bleaches.

- Supplied as a liquid concentrate, for use in automatic machines
- Biodegradable, phosphate-free, bactericidal, non foaming, non flammable and can be washed without leaving a residue
- Colourless to pale amber, non viscous liquid which has a faint odour
- decon® decomatic is alkaline. The concentrate has a pH in excess of pH 13

BS EN 1040 1997 (bacterial activity), OECD 301E (ISO method 7827-1986 (E)) (biodegradability)

Packaging: Supplied in 10 litre HDPE containers, with 'tamper-evident' screw-on caps.

Description	Pk	Cat. No.
decon® decomatic, surface cleaning agent	10 l	**141-0000**

Surface active cleaning agent for automatic glassware washing machines, dri-decon®

Surface active cleaning agent, in granular form, for use in laboratory, medical and industrial automatic glassware washing machines. For machine cleaning and/or decontaminating glassware, ceramics, rubbers, plastics, stainless steel and ferrous metals. Being alkaline, dri-decon® is not suitable for use on non-ferrous metals, notably aluminium and zinc, or on polycarbonate.

- Supplied as a finely milled powder, for use in automatic machines
- Biodegradable, non flammable, non foaming and can be washed without leaving a residue
- Dry, white, fine powder which has a faint odour
- dri-decon® is alkaline. Working solutions have a pH in excess of pH 10

OECD 301E (ISO method 7827-1986 (E)) (Biodegradability)

Packaging: Supplied in 5 kilogram HDPE containers with wide necks and screw-on caps.

Description	Pk	Cat. No.
dri-decon® surface cleaning agent	5 kg	**141-0001**

Neutraliser/preliminary cleaner for automatic glassware washing machines, decon® acid rinse

The neutraliser decon® acid rinse is a blend of aliphatic polycarboxylic acid, aliphatic alcohol and non-ionic surface active agents in an aqueous base. It is ideal for use in laboratory, medical and industrial automatic glassware washing machines as an acid rinse (neutraliser) and/or a pre-wash (preliminary cleaner), when cleaning/decontaminating glassware, ceramics, rubbers, plastics, stainless steel and ferrous metals. Being acidic, decon® acid rinse is not suitable for use on non ferrous metals, notably aluminium and zinc.

- Supplied as a liquid concentrate, for use in automatic machines
- Biodegradable, non flammable, bactericidal, non foaming and can be washed without leaving a residue
- Colourless, non viscous liquid which has a mild odour
- Concentrate, typically, has a pH of 2.7

BS EN 1040 1997 (bacterial activity), OECD 301E (ISO method 7827 - 1986 (E)) (biodegradability)

Packaging: Supplied in 5 litre, HDPE containers, with 'tamper-evident' screw-on caps.

Description	Pk	Cat. No.
decon® acid rinse, neutraliser/preliminary cleaner	5 l	**148-0320**

Surface active cleaning agent, decon® 90

A surface active cleaning agent and/or radioactive decontaminant, for laboratory, medical and specialised industrial applications. A concentrate that is suitable for 'manual' cleaning, or for use in an ultrasonic cleaning bath.

- Biodegradable, phosphate-free and enzyme-free
- Batericidal
- Highly alkaline > pH13

decon® 90 satisfies the criteria in BS EN 1040 1997 for bacterial activity.

Note: Not suitable for domestic use **nor** suitable for use on non-ferrous metals, notably aluminium and zinc, or on polycarbonate.

Description	Pk	Cat. No.
decon® 90 surface active cleaning agent	1 l	**148-0324**
decon® 90 surface active cleaning agent	5 l	**148-0325**
decon® 90 surface active cleaning agent	20 l	**148-0326**

Detergents and cleaning agents for glass washing, Tana Professional
Werner & Mertz

Manudish

Kalk-Free

BINGO Rinse

- BINGO 4 in 1 Tabs: Combines cleaning, rinsing, regenerating and protecting in one tablet, for dishwashers
- Manudish, green care®: Washing up liquid for manual applications

Description	Packed	Pk	Cat. No.
BINGO 4in1 Tabs, cleaning tablets for dishwashers	80 tablets per box	80	**141-0274**
BINGO Rinse, rinse aid for dishwashers	1 litre bottle	10 Bottle	**141-0275**
Kalk-Free, lime scale remover for dishwashers and washing machines	1 litre bottle	10 Bottle	**141-0276**
Manudish, green care®, washing up liquid	1 litre bottle	10 Bottle	**141-0280**

Surface cleaners, Tana Professional
Werner & Mertz

All purpose cleaner

Cream Cleaner, lemon

SPRINTER grease

A range of surface cleaners suitable for most general maintenance cleaning. The green care® products are designed in accordance with the principles of a sustainable development and meet the requirements of the European Ecolabel.

Description	Packed	Pk	Cat. No.
green care® All Purpose Cleaner No.1, pH neutral, cleaner for all washable surfaces	1000 ml	10 Bottle	**141-0279**
green care® SR15, alcohol based surface cleaner, with high wetting and low foaming properties	1000 ml	10 Bottle	**141-0267**
green care® cream cleaner, lemon, pH 10	500 ml	10 Bottle	**141-0266**
green care® TAWIP vioclean, conditioning floor cleaner for use in all commercial automatic scrubbing machines as well as for manual wipe cleaning	1000 ml	10 Bottle	**141-0278**
green care® Glass and Window Cleaner No. 4, alcohol containing solution for smear-free cleaning	1000 ml	10 Bottle	**141-0262**
SprinterMULTICLEAN, multipurpose spray cleaner with a quick drying formula, for kitchen grease removal	750 ml	10 Bottle	**141-0268**
SprinterPOWER, ready to use spray, slightly alkaline general purpose surface cleaner	750 ml	10 Bottle	**141-0272**
SprinterVIT, ready to use spray for streak-free cleaning of glass and mirror surfaces	750 ml	10 Bottle	**141-0269**
SPRINTER grease, ready to use spray, neutral degreaser	750 ml	10 Bottle	**141-0270**
Introductory cleaning kit: 4 products: Manudish, Sprinter Vit, Sprinter Grease, Toilet Cleaner (lemon)	-	40 Bottle	**141-0281**

Description	Pk	Cat. No.
Accessories		
Dosing measure 10 ml for use with 1 litre green care® bottles	30	**141-0282**
Spray head with trigger for green care® glass and window cleaner	25	**141-0284**
Foam pistol 3 litre	1	**141-0285**

Sanitary cleaners, Tana Professional
Werner & Mertz

141-0265

141-0273

141-0277

A range of cleaners suitable for most maintenance cleaning tasks in rest rooms. The green care® products are designed in accordance with the principles of a sustainable development and meet the requirements of the European Ecolabel.

Description	Pk	Cat. No.
WC liquid, toilet cleaner, acidic with fresh fragrance	10 Bottle	**141-0263**
BR 75 swimming pool and sanitary cleaner, strongly acidic lime scale remover	10 Bottle	**141-0264**
Toilet cleaner N 3, lemon, with acidic lime scale remover	10 Bottle	**141-0265**

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Description	Pk	Cat. No.
Sprinter SANACID, surface spray for sanitary areas	10 Bottle	**141-0271**
green care® ALKASTAR, acid-free and chlorine-free sanitary cleaner	10 Bottle	**141-0273**
green care® Zitrotan, acidic sanitary maintenance cleaner with natural limescale remover (lemons)	10 Bottle	**141-0277**

Air freshener spray
Werner & Mertz

This air freshener spray with lemon fragrance quickly and effectively removes unpleasant odours and creates a long-lasting freshness. It is especially suitable for sanitary environments and washrooms.

- Easy to use and economical
- Can also be sprayed directly onto surfaces and odour sources

Description	Capacity (ml)	Pk	Cat. No.
Air freshener with odour neutralising ingredients, in spray bottle, lemon	400	12 Bottle	**141-0261**

Detergents, 'Teepol' L, for glassware

A neutral liquid detergent particularly good for cleaning laboratory glassware; residual surface activity may be removed by subsequent acid hydrolysis. Avoid contact with eyes, skin and clothes. Working procedure should be designed to minimise exposure to Teepol® L. Dilution rate for cleaning, 15 - 30 ml per 5 litres of water, for general wetting use at a strength of 0,1 - 0,2%.

- Leaves surfaces clean and bright in all types of water
- Highly effective wetting agent
- Biodegradable

Description	Packed	Pk	Cat. No.
'Teepol' L glassware detergent	5 litre container	20 l	**560116C**

Cleaning fluid, 'Teepol' bleach

Solution with approximately 4% available chlorine, recommended for cleaning and disinfection.

- Kills 99% of germs, bacteria, fungi and viruses
- Effective against HIV and Hepatitis A

Note: Do not use with acids as this will rapidly release a toxic gas.

Description	Pk	Cat. No.
'Teepol' bleach	20 l	**331827D**

Detergent, Teepol Multi Purpose

A pleasantly perfumed, green coloured detergent designed for a multitude of uses. Safe on most surfaces and ideal for removing food, oils, dirt and grease.

Description	Packed	Pk	Cat. No.
Teepol Multi Purpose Detergent	5 litre plastic container	4	**141-0914**

Detergent, Lyptosol

Liquid detergent for washing up and general cleaning.
Typical usage:

- Dish washing: 1 part to 600 parts of hot water
- General cleaning: 1 part to 250 parts of hot water
- Vehicles: 1 part to 450 parts of warm water

Description	Packed	Pk	Cat. No.
Lyptosol detergent and washing up liquid	5 litre containers	2	**141-0915**

Disinfectants, High Level Laboratory Surface Disinfectant, Distel

Distel High Level Laboratory Surface Disinfectant continues the trend of leading edge biosecurity technologies. At the heart of the Distel formula is a carrier system that enables the active molecules in the product to be carried through cell walls of microorganisms. This allows both rapid and effective results, and makes it safer to use than conventional products.

This all-purpose, non alcohol based formulation for use in cleaning and disinfecting laboratory equipment, hard surfaces and organic spillages. It is effective against bacteria, viruses, fungi, mycobacteria and denatures DNA/RNA and can be used on rubber, metal, ceramic, plastic, fabric and glass.

The formulation blend has been designed to provide excellent cleaning and disinfecting properties for laboratory equipment, benches, shelves, fridges and surfaces of electrical equipment. It can also be used to decontaminate pipettes, water baths, incubators, centrifuges, discard jars and non critical devices.

- Fast acting and effective disinfectant
- Colourless and odourless
- Shelf life for unopened concentrate: 3 years; for factory diluted product: 2 years; for customer diluted product: 6 months
- Active constituents are approved under European Biocidal Products Directive (ref 98/8/EC) and offer REACH compliance

Distel High Level Laboratory Surface Disinfectant is recommended for use diluted at 1:100 for all normal laboratory requirements, and at 1:10 for high risk disinfection.

Activity	Active against
Bactericidal activity	*Pseudomonas aeruginosa, Campylobacter spp, Staphylococcus spp, Streptococcus spp, Leptospira spp, Escherichia coli, Enterococcus spp , Klebsiella spp, Salmonella spp, Listeria monocytogenes, Legionella spp, Proteus vulgaris, Rhodococcus spp, Serratia spp Mycobacterium tuberculosis, Mycobacterium terrae, Mycobacterium avium*
Fungicidal activity	*Aspergillus niger, Trichophyton spp, Candida spp*
Virucidal activity	Coronavirus (SARS), Adenovirus type 5, Influenza

Description	Packed	Pk	Cat. No.
Distel disinfectant 1:100, non fragranced	500 ml trigger spray	6	**141-0928**
Distel disinfectant concentrate, non fragranced	1 litre container	6	**141-0931**
Distel disinfectant concentrate, non fragranced	5 litre container	3	**141-0935**

Disinfectants, High Level Medical Surface Disinfectant, Distel

Distel High Level Medical Surface Disinfectant continues the trend of leading edge biosecurity technologies. At the heart of the Distel formula is a carrier system that enables the active molecules in the product to be carried through cell walls of microorganisms. This allows both rapid and effective results, and makes it safer to use than conventional products.

Distel is suitable for disinfecting medical equipment surfaces to help prevent cross-contamination of infectious agents (e.g. MRSA, Norovirus). Intended for use on hard surfaces of non invasive, non lumened medical devices such as monitors, IV poles, beds, patient trolleys, ultrasound and X-ray equipment.

- Fast acting, simple and effective disinfectant
- Available in eucalyptus fragrance and non fragranced formats
- Shelf life for unopened concentrate: 3 years; for factory diluted product: 2 years; for customer diluted product: 6 months
- Active constituents are approved under European Biocidal Products Directive (ref 98/8/EC) and REACH compliance
- Conforms to the medical device directive 93/42/EEC and 2007/47/EEC amendments. Product is biodegradable under OECD guidelines

Distel High Level Medical Surface Disinfectant is recommended for use diluted at 1:100 for high level disinfection, and at 1:10 in the presence of blood and bio-hazard spillage.

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Activity	Active against
Bactericidal activity	*Pseudomonas aeruginosa, Campylobacter spp, Staphylococcus spp, Streptococcus spp, Leptospira spp, Escherichia coli, Enterococcus spp , Klebsiella spp, Salmonella spp, Listeria monocytogenes, Legionella spp, Proteus vulgaris, Rhodococcus spp, Serratia spp, Shigella spp, Helicobacter pylori, MRSA* *Mycobacterium tuberculosis, Mycobacterium terrae, Mycobacterium avium*
Fungicidal activity	*Aspergillus niger, Trichophyton spp, Candida spp*
Virucidal activity	Coronavirus (SARS), Adenovirus type 5, Influenza, H5NI

Description	Packed	Pk	Cat. No.
Distel disinfectant 1:10 non fragranced	500 ml trigger spray	6	**141-0932**
Distel disinfectant concentrate non fragranced	1 litre container	6	**141-0936**
Distel disinfectant cncentrate non fragranced	5 litre container	3	**141-0933**
Distel disinfectant 1:10 eucalyptus	500 ml trigger spray	6	**141-0929**
Distel disinfectant concentrate eucalyptus	1 litre container	6	**141-0930**
Distel disinfectant concentrate eucalyptus	5 litre container	3	**141-0934**

Disinfectants, virucidal, Rely+On™ Virkon®

Any viral disease transmitted via surfaces or instruments contaminated with infected blood, body fluids, faeces or saliva, can be controlled by the correct application of Virkon®. Independently tested and proven to inactivate viruses thus demonstrating its total and non-selective activity against them. Diluted in water to 1%, Virkon® can be used in spray or liquid form to clean and disinfect work surfaces and equipment in a single, one-step operation. A 50 g sachet can be diluted into 5 litres of solution, depending upon application.

- Widest proven spectrum of any disinfectant, excellent bactericide and fungicide
- Effective against all 22 virus families affecting people and animals
- In powder form can be directly applied to spillages of blood and other body fluids
- Odourless, 1% solution is non-irritant with exceptionally low oral toxicity
- Non corrosive, non bleaching, biodegradable

Ordering information: Available in 50×50 g sachets or 5 g tablets (can be divided between different laboratories), economical 1×5 kg drum, or 6×500 g squeeze 'puff' packs.

Virucidal activity	HIV/AIDS, Hepatitis B, Polio, Measles, Influenza, Herpes, Rabies, Norwalk, Pox viruses, Enteroviruses, Viral Gastroenteritis
Bactericidal activity	Staphylococci, Streptococci, Proteus, Pseudomonas, Mycobacteria (including TB) and all major food poisoning bacteria. Proven against a wide range of antibiotic-resistant strains
Fungicidal activity	Candida and the common skin dermatophytes

Description	Pk	Cat. No.
Sachets, Rely+On™ Virkon® powder	50×50 g	**148-0200**
Squeeze, Rely+On™ Virkon® powder	6×500 g	**148-0201**
Drum, Rely+On™ Virkon® powder	5 kg	**148-0202**
Rely+On™ Virkon® tablets	200 Tab.	**115-0020**
Rely+On™ Virkon® tablets	600 Tab.	**115-0021**

STERILE

Incubator-Clean™
AppliChem

Incubator-Clean™ disinfectant solution prevents contamination with, and growth of, fungi (and spores), bacteria (and spores, including Tuberculosis bacteria), viruses (including HIV and Hepatitis B) and mycoplasma in incubators and/or on sterile work benches. The active ingredients are quaternary benzylammonium compounds.

- Free of mercury, formaldehyde, phenol or alcohol
- Non corrosive to aluminium, tin-plated iron, chrome, nickel, steel, high grade steel and copper
- Non toxic and biodegradable ingredients

Recommended use: Spray incubators once every 2 weeks; spray sterile benches once a day, or preferably before each laboratory worker begins to use the work area.

Description	Pk	Cat. No.
Incubator-Clean™	500 ml	**A5230.0500**
Incubator-Clean™	1 l	**A5230.1000**

Cleaning solution, IPASEPT 70®

Iso-propyl alcohol Ph. Eur. 70% V/V with purified water Ph.Eur. 30% V/V, filtered at 0,2 µm

For surface cleaning by spraying with or without wipes. Also for cleaning gloved hands before entrance into cleanrooms. Ideal for wiping down entrances to controlled environments.

- Filled under GMP conditions in cleanroom ISO Class 7
- Certificate of analysis is available for each batch
- Fine stream for precise applications, or wide spray for covering large areas

Packaging: Irradiated version is double bagged.

Description	Pk	Cat. No.
IPASEPT® 70, spray bottle, 6×1 litre	6 l	**93002.1016**
IPASEPT® 70, spray bottle, irradiated, 6×1 litre	6 l	**94006.1016**

Biocide, Contec Prochlor
Contec

Contec ProChlor is a fast acting innovative sporicidal biocide designed for use in pharmaceutical cleanrooms. Based on hypochlorous acid.

- Effective against bacteria, fungi, moulds, yeasts, viruses and spores
- Filtered at 5 µm and double bagged
- Free from quaternary ammonium compounds and surfactants
- Ready to use, non sterile

Description	Packed	Pk	Cat. No.
Contec Prochlor	1 litre bottle with trigger spray head.	6	**141-0883**
Contec Prochlor	5 litre plastic container	2	**141-0882**

Disinfectants, sterile, ClearKlens IPA
Diversey

Disinfectant containing 70% isopropyl alcohol, 30% water for injection, for use on contact surfaces, gloved hands, instruments and utensils.

- Gamma irradiated (900 ml) or sterile filled (5 litre pack size) and double bagged
- Detex labelled for proof of irradiation (900 ml)
- Supplied with certificates of analysis, irradiation, endotoxin and sterility where applicable
- 900 ml trigger spray pack incorporates anti-suck technology

Passes CEN 1276, CEN 1650 and CEN 13697

Description	Packed	Pk	Cat. No.
ClearKlens IPA disinfectant, aerosol	300 ml aerosol	12	**141-0888**
Disinfectant, with trigger spray, anti-suck technology	900 ml trigger spray	6	**141-0884**
ClearKlens IPA, disinfectant	5 litre container	4	**141-0889**

Disinfectants, ClearKlens Tego® 2000
Diversey

Highly effective, active amphoteric, surface disinfectant with a broad spectrum of antimicrobial activity, developed for use in sterile environments.

- Ready to use, 0,2 micron filtered, sterile filled and double bagged
- Validated HPLC and Titration test methods available
- Compatible with ClearKlens Cleansinald and ClearKlens Bi-Spore as a rotational process

Passes CEN 1276, CEN 1650 and CEN 13697

Description	Packed	Pk	Cat. No.
ClearKlens Tego® 2000 RTU, disinfectant for use in sterile environment	5 litre container	4	**141-0891**

Disinfectants, ClearKlens Tego® 2001 SC VH24
Johnson Diversey

ClearKlens Tego 2001 SC is a concentrated disinfectant for the pharmaceutical cleanroom industry. It is a surface active, antimicrobial amphoteric system, based on 1-alkyl-1,5-diazapentane in aqueous solution. Used for the disinfection of floors, walls, work surfaces and process equipment.

- Broad spectrum of activity - bactericidal and fungicidal
- 0,2 µm filtered, gamma irradiated and double bagged
- Odourless, non tainting, low toxicity
- Relative density at 20 °C: 1,065; pH: 9,0
- Excellent wetting properties to enhance microbiological kill and minimise resistance

Bactericide CEN 1276; Fungicide CEN 1650; CEN 13697

Description	Packed	Pk	Cat. No.
Disinfectant, ClearKlens Tego® 2001 SS VH24, for cleanroom purpose	6×900 ml (bag in bottle design)	6	**141-0885**
Disinfectant, ClearKlens Tego® 2001 SC VH24, for pharmaceutical cleanroom purpose	100 ml	1	**141-0895**

Disinfectants, ClearKlens Cleansinald
Diversey

Surface active disinfectant based on a blend of quaternary ammonium and alkyl amines.

- 0,2 micron filtered, aseptically filled and double bagged
- Broad spectrum of activity
- Supplied with certificate of analysis and sterility where applicable
- Compatible with ClearKlens Tego® 2000, ClearKlens Tego® 2001 and ClearKlens Bi-Spore as a rotational process

Passes CEN 1276, CEN 1650, CEN 13697 and CEN 13704

Description	Packed	Pk	Cat. No.
ClearKlens Cleansinald SC, sterile disinfectant concentrate	25 ml sachets	50	**141-0893**
ClearKlens Cleansinald SS, disinfectant, sterile spray	Case of 6×900 ml bottles with trigger spray	1	**141-0894**
ClearKlens Cleansinald, RTU, disinfectant	5 litre container	1	**141-0886**

Disinfectants for cleanrooms, ClearKlens Bi-Spore

Diversey

ClearKlens Bi-Spore is a rapid action stable two part chlorine dioxide generating system, developed to disinfect pharmacuetical industry sterile production facilities. It passes the European sporicidal test (CEN 13704) in 5 minutes, well within realistic cleanroom surface drying times, 5 - 8 minutes after surface contact.

- 0,2 µm filtered, aseptically filled and double bagged
- Easy to use two part system- base and activator
- Compatible with all surfaces typically found in cleanrooms
- Supplied with certificate of analysis and sterility where applicable
- Complimentary rotational partner to ClearKlens Tego® 2000, ClearKlens Tego® 2001 and ClearKlens Cleansinald

Bactericide EN 1276; Fungicide EN 1650; Bactericide and Fungicide EN 13697; Sporicide EN 13704; Virucide EN 14476.

Description	Packed	Pk	Cat. No.
Disinfectant, ClearKlens Bi-Spore VH26	25 x (100 ml base concentrate + 100 ml activator)	1	**141-0887**
Disinfectant, ClearKlens Bi-Spore VH26	4× (5 litre+100 ml) containers	1	**141-0892**

Disinfectants, sterile, Crystel Gold and Crystel Silver

Gold: IPA 70% with Water for Injection; Silver: 70% denatured ethanol with Water for Injection

Crystel Gold and Crystel Silver are both ideal for the disinfection of product contact surfaces, spraying in and gloved hands.

These ready to use solutions are suitable for all surfaces found within pharmaceutical production facilities.

The Gold sterile packs contain a ready to use 70% v/v IPA with Water for Injection.*
The Silver sterile packs contain a ready to use 70% v/v Denatured Ethanol with Water for Injection (de-natured with 5% IPA)

- Ready to use disfectants for use on product contact surfaces
- For professional use
- Bag in bottle design with a 0,2 µm filter in the trigger head
- Gold and Silver are filled in a Grade A environment located within a Class B room
- EN standards: EN 1276 - Bactericidal activity; EN 1650 - Fungicidal activity; EN 13697 - Bactericidal surface test

All disinfectants are supported by comprehensive technical files which provide all the documentation for validation.

Packaging: Available ready to use in 1 litre (trigger spray) and 5 litre pack sizes.

Delivery information: Supplied with its own Certificate of Analysis, Sterility Validation, Certificate of Irradiation, Endotoxin Validation and detailed technical file (including: product specification, manufacturing process, shelf life, microbiological and analytical data).

Description	Packed	Pk	Cat. No.
Gold sterile IPA disinfectant for manual disinfection	1 litre bottles with trigger spray	6 l	**141-0916**
Gold sterile IPA disinfectant for manual disinfection	5 litre containers	2	**141-0917**
Silver sterile DE disinfectant for manual disinfection	1 litre bottles with trigger spray	6	**141-0918**
Silver sterile DE disinfectant for manual disinfection	5 litre containers	2	**141-0919**

*See technical file for further details.

Disinfectant, sterile amphoteric disinfectant, Crystel Diamond

A rotational liquid disinfectant containing surface active agents and an amphoteric compound for environmental and surface disinfection.

Crystel Diamond is ideal for the disinfection of walls and floors, and is safe for use on most surfaces found within pharmaceutical production facilities.

- Suitable for product contact areas, walls and floors
- Use on pre-cleaned surfaces
- For professional use only

EN standards: EN 1276 - Bactericidal activity, EN 1650 - Fungicidal activity, EN 13697 Bactericidal surface test

All disinfectants are supported by comprehensive technical files which provide all the documentation for validation.

Packaging: Available in 100 ml concentrate bottles*, ready to use 900 ml (trigger spray) and 5 litre bottles. Ready to use packs can be used immediately for spraying and mopping.

Delivery information: Supplied with its own Certificate of Analysis, Sterility Validation, Certificate of Irradiation, and detailed technical file (including: product specification, manufacturing process, shelf life, microbiological and analytical data).

Description	Packed	Pk	Cat. No.
Diamond sterile amphoretric disinfectant for manual disinfection. Supplied in concentrate bottles*	100 ml bottles	50	**141-0920**
Diamond sterile amphoretric disinfectant for manual disinfection. Supplied ready to use	900 ml bottles with trigger spray	6	**141-0921**
Diamond sterile amphoretric disinfectant for manual disinfection. Supplied ready to use	5 litre plastic containers	2	**141-0922**

* Add one 100 ml concentrate to 5 litres of water to make a 2% solution.

Disinfectant, sterile QAC/biguanide disinfectant, Crystel Platinum

A rotational liquid disinfectant containing surface active agents and a blend of quaternary ammonium compounds (QAC) and biguanide for environmental and surface disinfection.

Crystel Platinum is ideal for the disinfection of walls and floors, and is safe for use on most surfaces found within pharmaceutical production facilities.

- Suitable for product contact areas, walls and floors
- Filled in Grade A environment located within the Class B room
- Use on pre-cleaned surfaces
- For professional use only

EN standards: EN 1276 - Bactericidal activity; EN 1650 - Fungicidal activity; EN 13697 Bactericidal surface test

All disinfectants are supported by comprehensive technical files which provide all the documentation for validation, including residue test methods.

Packaging: Available in 100 ml concentrate bottles*, ready to use 900 ml (trigger spray) and 5 litre bottles. Ready to use packs can be used immediately for spraying and mopping.

Delivery information: Supplied with its own Certificate of Analysis, Sterility Validation, Certificate of Irradiation, and detailed technical file (including: product specification, manufacturing process, shelf life, microbiological and analytical data).

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Description	Packed	Pk	Cat. No.
Platinum sterile QAC/biguanide disinfectant for manual disinfection. Supplied in concentrate bottles*	100 ml bottles	50	**141-0923**
Platinum sterile QAC/biguanide disinfectant for manual disinfection. Supplied ready to use	900 ml bottle with trigger spray	6	**141-0924**
Platinum sterile QAC/biguanide disinfectant for manual disinfection. Supplied ready to use	5 litre plastic container	2	**141-0925**

* Add one 100 ml concentrate to 5 litres of water to make a 2% solution.

Disinfectant, sterile chlorine dioxide disinfectant, Crystel Cry-Spore

A two-part activated chlorine dioxide, sporicide disinfectant for environmental and surface disinfection.

Cry-Spore is ideal for the disinfection of walls and floors, and is safe for use on most surfaces found within pharmaceutical production facilities.

- Suitable for product contact areas, walls and floors
- Use on pre-cleaned surfaces
- Leave 10 minutes to activate prior to use
- For professional use only

EN standards: EN 1276 - Bactericidal activity, EN 1650 - Fungicidal activity, EN 13697 Bactericidal surface test, EN 13704 Sporocidal activity

All disinfectants are supported by comprehensive technical files which provide all the documentation for validation, including residue test methods.

Packaging: Available in 100 ml concentrate bottles (pack size contains 1x 100 ml base concentrate and 1x 100 ml activator concentrate)*
Ready to use set: 4,9 litre base solution and 1x 100 ml activator concentrate to make a 2% ready to use solution.**

Delivery information: Supplied with its own Certificate of Analysis, Sterility Validation, and detailed technical file (including: product specification, manufacturing process, shelf life, microbiological and analytical data***).
The product is registered or compliant with the following: BS EN ISO 9001:2008; Biocidal Products Directive 98/8/EC; 1907/2006/EC REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals).

Description	Packed	Pk	Cat. No.
Cry-Spore two part sterile chlorine dioxide, sporicide disinfectant for manual disinfection. Supplied in concentrate bottles*	100 ml base concentrate + 100 ml activator	25	**141-0926**
Cry-Spore two part sterile chlorine dioxide, sporicide disinfectant for manual cleaning. Supplied ready to use**	4,9 litre of base solution in a plastic container + 100 ml activator	2 SET	**141-0927**

* Add the 100 ml contents of activator to 4.8 l of water, then immediately add the 100 ml contents of base. Leave 10 minutes to activate prior to use.
** Add 100 ml contents of activator to 4.9 l contents of base solution and leave 10 minutes to activate prior to use.
*** TOC - Total Organic Compound; COD - Chemical Oxygen Demand; Nitrogen / Phosphorous content.

Alcohols, sterile, Premier Klercide 70/30™

Ecolab®

Contains 70% IPA or denatured ethanol (IMS) blended with deionised water, filtered to 0.2 µm, filled and double bagged in an ISO Class 7; Grade C (microbial count) cleanroom before irradiation using a validated process at no less than 25 kGy to ensure spore free alcohol.

- SteriShield Delivery System™ ensures 6 months in-use shelf life
- Certificates of Analysis, Irradiation and Sterility with every batch
- Fully validated and CEN tested
- Ideal for Grade A and B cleanrooms and product contact areas

EN standards: EN 1276 - Bactericidal activity, EN 1650 - Fungicidal activity, EN 13697 Bactericidal surface test.

Description	Packed	Pk	Cat. No.
Premier Klercide 70/30™ sterile IPA spray	500 ml trigger spray bottle	12	**141-0899**
Premier Klercide 70/30™ sterile IPA spray	1 litre trigger spray bottle	6	**141-0900**
Premier Klercide 70/30™ sterile IPA spray	4 litre container	4	**141-0901**
Premier Klercide 70/30™ sterile IPA capped	5 litre container	4	**141-0902**
Premier Klercide 70/30™ sterile denatured ethanol spray	500 ml trigger spray bottle	12	**141-0903**
Premier Klercide 70/30™ sterile denatured ethanol spray	1 litre trigger spray bottle	6	**141-0156**
Premier Klercide 70/30™ sterile denatured ethanol spray	4 litre container	4	**141-0904**
Premier Klercide 70/30™ sterile denatured ethanol, capped	5 litre container	4	**141-0905**

Alcohols, sterile, Premier-WFI Klercide 70/30™

Ecolab®

Contains 70% IPA or denatured ethanol (IMS) blended with highest specification (EP) water for injection. It is filtered to 0.2 µm, filled and triple bagged under ISO Class 5; Grade B (microbial count) laminar flow in an ISO Class 7; Grade C (microbial count) cleanroom before irradiation using a validated process at no less than 25 kGy to ensure spore free alcohol.

- Endotoxin levels guaranteed to be below 0.25 EU/ml
- Ideal for Grade A and B cleanrooms and product contact areas
- SteriShield Delivery System™ ensures 6 months in-use shelf life
- Certificates of Analysis, Irradiation and Sterility with every batch
- Fully validated and CEN tested

EN standards: EN 1276 - Bactericidal activity; EN 1650 - Fungicidal activity; EN 13697 Bactericidal surface test.

Description	Packed	Pk	Cat. No.
Premier-WFI Klercide 70/30™ sterile IPA aerosol	360 ml	24	**148-0118**
Premier-WFI Klercide 70/30™ sterile IPA spray	500 ml	12	**148-0092**
Premier-WFI Klercide 70/30™ sterile IPA spray	1,0 litre	6	**148-0094**
Premier-WFI Klercide 70/30™ sterile IPA spray	4,0 litre	4	**148-0096**
Premier-WFI Klercide 70/30™ sterile denatured ethanol spray	500 ml	12	**148-0091**
Premier-WFI Klercide 70/30™ sterile denatured ethanol spray	1,0 litre	6	**148-0093**
Premier-WFI Klercide 70/30™ sterile denatured ethanol spray	4,0 litre	4	**148-0095**

Isopropyl alcohol spray, filtered, Kleralcohol IPA Spray

Ecolab®

70% propan-2-ol, 30% deionised water solution, 0,2 µm filtered.

- SteriShield Delivery System, which throughout use preserves the integrity of the contents
- Suitable for grade C/D cleanrooms

Bactericidal EN 1276; Fungicidal EN 1650; Bactericidal and Fungicidal EN 13697

Packaging: Supplied cleanroom processed and double bagged.

Description	Packed	Pk	Cat. No.
Kleralcohol IPA Spray	1 litre bottles with trigger spray	6	**141-0907**

Biocides A and B, filtered, Klericide-CR™

Ecolab®

Cleanroom processed, filtered to 0,2 micron and supplied double bagged. Ideally suited for connected grade C and D areas where continuity with the sterile environment is required. Biocide A is a quaternary ammonium/biguanide blend with broad spectrum activity. Biocide B is a fast acting sporicide, a blend of stabilised chlorine dioxide and a quaternary ammonium compound.

- CEN and isolate tested
- Safe and effective: non toxic and non corrosive
- Fully compatible and ideal for a rotational regime
- SteriShield Delivery System™ ensures 6 months in-use shelf life

Type	Biocide A	Biocide B
Bactericidal activity	*S.aureus, K.pneumoniae, E.coli, E.hirae, S.epidermidis, C.perfringens, C.botulinium, S.entiritidis, S.hominis, P.aeruginosa, M.smegmatis, L.monocytogenes, S.marcescens, S.capitis, M.luteus*	*S.aureus, K.pneumoniae, E.coli, E.hirae, S.epidermidis, S.choleraesuis, C.perfringens, C.botulinium, P.aeruginosa, M.smegmatis, M.tuberculosis, M.luteus, S.capitis, S.hominis, Vancomycin res. Enterococci*
Fungicidal activity	*A.niger, A.fumigatus, T.interdigitale, C.albicans, M.racemosus, P.notamum, P.expansum, S.rouxii*	*A.niger, A.fumigatus, T.interdigitale, C.albicans*
Sporicidal activity	-	*B.subtilis var.niger, B.licheniformis, B.cereus, B.pumilis, B.sphaericus, B.subtilis*
Virucidal activity		Influenza A2, Hong Kong-Virus 68, Herpes HSV-2, HIV, Hepatitis B

Description	Packed	Pk	Cat. No.
Biocides A and B, filtered, Klericide-CR™			
Klericide-CR™ biocide A spray	1 litre trigger spray bottle	6	**141-0151**
Klericide-CR™ biocide A capped	Capped container 5 litre	4	**141-0908**
Klericide-CR™ biocide B spray	1 litre trigger spray bottle	6	**141-0150**
Klericide-CR™ biocide B capped	Capped container 5 litre	4	**141-0909**

Biocide A, sterile filtered, Premier Klercide-CR™

Ecolab®

Klercide-CR™ Biocide A

Suitable for ISO Class 5; Grade A and B (microbial count) areas: cleanroom processed and sterile, double bagged. Blend of a quaternary ammonium compound and a biguanide with broad spectrum activity. Filtered to 0,2 µm. Also available in unit dose concentrate, Biocide X.

- CEN and isolate tested
- Safe and effective: non-toxic and non-corrosive
- Fully compatible and ideal for a rotational regime
- SteriShield Delivery System™ ensures 6 months in-use shelf life

EN standards: EN 1276 - Bactericidal activity; EN 1650 - Fungicidal activity; EN 13697 Bactericidal surface test

Bactericidal activity	*S.aureus, K.pneumoniae, E.coli, E.hirae, S.epidermidis, S.entiritidis, P.aeruginosa, L.monocytogenes, S.marcescens, M.luteus, P.vulgaris, S.capitis, S.paucimobilis, S.hominis*
Fungicidal activity	*A.niger, C.albicans, P.expansum*

Description	Packed	Pk	Cat. No.
Premier Klercide-CR™ sterile biocide A spray	1 litre bottle with trigger spray	6	**148-0069**
Premier Klercide-CR™ sterile biocide A capped	5 litre container	4	**148-0073**
Premier Klercide-CR™ sterile biocide A concentrate capped	5 litre container	4	**148-0081**

Biocide B, sterile filtered, Premier Klercide-CR™

Ecolab®

Biocide B is a fast acting sporicide. Suitable for ISO Class 5; Grade A and B (microbial count) areas: cleanroom processed and sterile, double bagged. Blend of stabilised chlorine dioxide and quaternary ammonium compound, with broad spectrum activity. Filtered to 0,2 µm.

- Safe: non toxic and non corrosive, and very effective against bacterial spore
- CEN and isolate tested
- Fully compatible and ideal for a rotational regime
- SteriShield Delivery System™ ensures 6 months in-use shelf life

EN standards: EN 1276 - Bactericidal activity, EN 1650 - Fungicidal activity, EN 13697 Bactericidal surface test, EN 13704 Sporocidal activity.

Sporicidal activity	*B.subtilis var.niger, B.subtilis, B.licheniformis, B.cereus, B.pumilis, B.sphaericus*
Bactericidal activity	*S.aureus, K.pneumoniae, E.coli, E.hirae, S.epidermidis, S.choleraesuis, C.perfringens, C.botulinium, P.aeruginosa, M.smegmatis, M.tuberculosis, M.luteus, S.capitis, S.hominis, Vancomycin res. Enterococci*
Virucidal activity	Influenza A2, Hong Kong-Virus 68, Herpes HSV-2, HIV, Hepatitis B
Fungicidal activity	*A.niger, A.fumigatus, T.interdigitale, C.albicans*

Description	Packed	Pk	Cat. No.
Premier Klercide-CR™ sterile filtered biocide B spray	1 litre bottle with trigger spray	6	**148-0070**
Premier Klercide-CR™ sterile filtered biocide B capped	5 litre container	4	**148-0074**
Premier Klercide-CR™ sterile filtered biocide B concentrate capped	5 litre container	4	**148-0082**

Biocide C, sterile filtered, Premier Klercide-CR™

Ecolab®

Suitable for ISO Class 5; Grade A and B (microbial count) areas: cleanroom processed and sterile, double bagged. Blend of 6% hydrogen peroxide and deionised water, with broad spectrum activity including bacterial spores. Filtered to 0,2 µm.

- CEN and isolate tested
- Safe and effective; non toxic and non corrosive
- Fully compatible and ideal for a rotational regime
- SteriShield Delivery System™ ensures 3 months in-use shelf life

EN standards: EN 1276 - Bactericidal activity, EN 1650 - Fungicidal activity, EN 13697 - Bactericidal surface test, EN 13704 - Sporocidal activity, EN 14476 - Virucidal.

Bactericidal activity	*S.aureus, E.coli, E.hirae, P.aeruginosa, C.perfringens, L.monocytogenes, C.botulinium, S.liquefaciens*
Fungicidal activity	*C.albicans, A.niger*
Sporicidal activity	*B.subtilis, B.cereus, B.coagulans*
Virucidal activity	Rhinovirus, Poliovirus

Description	Packed	Pk	Cat. No.
Premier Klercide-CR™ sterile filtered biocide C spray	1 litre bottle with trigger spray	6	**148-0071**
Premier Klercide-CR™ sterile filtered biocide C capped	5 litre container	4	**148-0075**

Biocide D, sterile Premier Klercide-CR™

Ecolab®

Suitable for ISO Class 5; Grade A and B (microbial count) areas; supplied sterile by gamma irradiation and double bagged under Grade A laminar flow in a Grade B cleanroom. Amphoteric surfactant with broad spectrum activity. Filtered to 0,2 µm. Also available as a unit dose concentrate, Biocide Y.

- CEN and isolate tested
- Safe and effective: non toxic and non corrosive
- Fully compatible and ideal for a rotational regime
- SteriShield Delivery System™ ensures 6 months in-use shelf life

EN standards: EN 1276 - Bactericidal activity; EN 1650 - Fungicidal activity; EN 13697 Bactericidal surface test.

Bactericidal activity	*P.aeruginosa, E.coli, S.aureus, E.hirae, P.mirabilis, M.smegmatis, E.faecium, M.luteus, S.capitis, S.epidermidis, Vancomycin res. Enterococci*
Fungicidal activity	*C.cladosporioides, M.racemosum, P.compactum*
Virucidal activity	Hepatitis B

Description	Packed	Pk	Cat. No.
Premier Klercide-CR™ sterile biocide D spray	1 litre bottle with trigger spray	6	**148-0072**
Premier Klercide-CR™ sterile biocide D capped	5 litre container	4	**148-0076**

Biocide, unit dose concentrate Premier Klercide-CR Sterile Biocide S

Ecolab®

Biocide S is a unit dose concentrate of Biocide E and an effective sporicide based on active chlorine.

- Suitable for class C/D cleanrooms
- Ideal for use with the Klercide Mopping Systems
- Unit dose (in a tub of 17×10 g tablets) for production of 10 litres of solution
- Each tub is filled in a Grade D (ISO Class 8) cleanroom and double bagged, before irradiation at no less than 25 kGy

Bactericidal EN 1276; Fungicidal EN 1650; Bactericidal and Fungicidal EN 13697; Sporicidal EN 13704.

Bactericidal activity	*S.aureus, E.coli, E.hirae, P.aeruginosa*
Fungicidal activity	*A.niger, C.albicans*
Sporicidal activity	*B.subtilis, B.pumilis*
Virucidal activity	Hepatitis B, Herpes HSV-2, HIV, Hong Kong Virus 68, Influenza A2, Poliovirus, Rhinovirus

Description	Packed	Pk	Cat. No.
Premier Klercide-CR™ sterile biocide S unit dose concentrate	Unit dose, tub of 17×10 g tablets	12	**141-0898**

Biocide X, unit dose concentrate, Premier Klercide-CR™ Sterile

Ecolab®

Alcohol-free biocide designed for cleanroom use. Filtered to 0,2 µm and filled in an ISO Class 7 Grade C cleanroom before irradiation. Five bottles are double bagged. Biocide X is a unit dose concentrate of Biocide A, a quaternary ammonium/biguanide blend with broad spectrum activity.

- Convenient unit dose saves time and avoids dilution errors
- CEN and isolate tested
- Dilute 100 ml concentrate in 5 litres of water
- Safe and effective; non toxic and non corrosive
- Fully compatible and ideal for a rotational regime

EN standards: EN 1276 - Bactericidal activity; EN 1650 - Fungicidal activity; EN 13697 - Bactericidal surface test.

Bactericidal activity	*P.aeruginosa, E.coli, S.aureus, K.pneumoniae, S.epidermidis, S.entiritidis, L.monocytogenes, S.hominis, E.hirae, S.marcescens, C.botulinium, C.perfringens, M.luteus, M.smegmatis, S.capitis*
Fungicidal activity	*A.niger, A.fumigates, P.expansum, P.notamum, C.albicans, S.rouxii, M.racemosum, T.interdigitale*
Concentration for use	Dilute 100 ml concentrate in 5 litres water

Description	Packed	Pk	Cat. No.
Premier Klercide-CR™ sterile biocide X unit dose concentrate	100 ml	50	**141-0912**

Biocide Y, unit dose concentrate, Premier Klercide-CR™ Sterile
Ecolab®

Alcohol-free, amphoteric surfactant biocide designed for cleanroom use. Filtered to 0.2 µm and filled in an ISO Class 7 Grade C cleanroom before irradiation. Five bottles are double bagged.

- Convenient unit dose saves time and avoids dilution errors
- CEN and isolate tested
- Safe and effective; non toxic and non corrosive
- Fully compatible and ideal for a rotational regime

Bactericidal activity	*P.aeruginosa, E.coli, S.aureus, E.hirae, P.mirabilis, M.smegmatis, E.faecium, M.luteus, S.capitis, S.epidermidis, Vancomycin res. Enterococci*
Fungicidal activity	*C.cladosporioides, M.racemosum, P.compactum*
Virucidal activity	Hepatitis B
Concentration for use	Dilute 100 ml concentrate in 5 litres water

Description	Packed	Pk	Cat. No.
Premier Klercide-CR™ sterile biocide Y unit dose concentrate	100 ml	50	**141-0913**

Biocide F, sterile, filtered, Premier WFI- Klercide-CR™ and Premier Klercide-CR™
Ecolab®

Suitable for ISO Class 5; Grade A and B (microbial count) areas: cleanroom processed, sterile filled and double bagged. Solution of quaterneray ammonium compound and water, with broad spectrum activity. Filtered to 0,2 µm.

The Premier-WFI Klercide-CR™ sterile biocide F version is a solution with water for injection (WFI) and the pack is triple bagged. Low endotoxin levels are guaranteed.

- Sterile cleanroom biocide for all types of hard surfaces
- Effective at low concentrations and non corrosive
- Fully compatible and ideal for a rotational regime
- SteriShield Delivery System™ ensures 3 months in-use shelf life

Bactericidal EN 1276; Fungicidal EN 1650; Bactericidal and Fungicidal EN 13697.

Bactericidal activity	*S.aureus, E.coli, E.hirae, P.aeruginosa,*
Fungicidal activity	*C.albicans, A.niger*
Virucidal activity	Bovine diarrhoea virus, vaccinia virus

Description	Packed	Pk	Cat. No.
Premier-WFI Klercide-CR™ sterile biocide F capped container	5 litre container	1	**141-0910**
Premier Klercide-CR™ sterile filtered biocide F concentrate capped	5 litre container	20 l	**141-0911**

Laboratory glassware washers, G 7804
Miele

Stainless steel front

The G 7804 handles a wide variety of cleaning challenges found in laboratory environments. It accommodates a variety of baskets and inserts designed for laboratory glassware. Baskets can be changed to allow maximum flexibility. This includes injector baskets for difficult to clean narrow necked items, baskets designed for pipette cleaning, and standard baskets for wide-mouthed items. A 304 and 316 grade stainless steel wash chamber provides superior corrosion resistance and helps extend overall machine life.

- Three wash programs for different soil levels plus two utility programmes
- Automatic dispensing of liquid acid neutraliser to restore proper pH levels to the glassware and remove any final detergent residues, detergent dispenser for powder cleaning agent
- Built in water softener for optimal detergent performance regardless of incoming water hardness
- Four-stage filter system keeps debris from reaching the pumps, helping to prevent both redeposit of contaminant on glassware and pump damage due to debris in the sump area
- Waterproof system designed to protect the laboratory from potential flooding. Double-wall intake hoses divert any leaks to the drip tray, where a float sensor shuts off water lines and activates the drain pump

Ordering information: Baskets and accessories must be ordered separately (baskets: O188, U874; injectors: E329, E355, E406; inserts: E104, E105, E106, A11, A12, A13, AK12).

Model	G 7804
Controller/programs	3 standard cleaning programs
Program operation/display	Wash programs: short, medium, extended. Utility programs; rinse, drain. Visual and acoustic signal, indicator lamps for service and fault messages
Cleaning mechanisms	Rotary dual spray arms located at the top and bottom of chamber. Direct injection upper, lower, or dual injection baskets available
Metering devices	Detergent; standard powder door cup dispenser. Neutraliser; liquid dispenser is standard. Reservoir is located on the inner door
Circulation pump (Qmax)	Max. 400 l /min; pump includes speed sensor to protect against overheating; separate drain and circulation pumps are standard to prevent cross contamination between drain and intake steps
Temperature (°C)	+70 max.
Water heating power	6000 W
Power connection	1 N AC 230 V 50 Hz
W×D×H (mm)	600×600×850
Chamber W×D×H (mm)	520×520×470
Weight (kg)	72

Description	Pk	Cat. No.
Laboratory glassware washer, G 7804, stainless steel front, UK-Plug	1	**141-1006**

Laboratory glassware washers, G 7883 CD
Miele

With active drying unit

The G 7883 CD cleaner/disinfector is suitable for washing laboratory glassware for analytical experiments in eg industry, environmental and reseach laboratories. This appliance has a large two-level wash cabinet and can be integrated into a continuous work top as a built-under unit or installed as a freestanding unit. The G 7883 CD differs from the G 7883 in that it has an active drying unit which ensures drying inside and outside of the items washed via a hot air blower. In addition, the G 7883 CD is 90 cm wide and has a front-loading drawer for 2 reservoirs.

- Direct connection of the upper basket and mobile units to the hydraulic circuit enables thorough cleaning inside and outside of the items washed
- Integrated dispensing pump for precise and automatic dispensing of liquid agents
- Final rinse with demineralised water for results suitable for analytical experiments
- Profi-Monobloc ensures continual regeneration during cleaning
- Steam condenser ensures that the room is not exposed to steam and hot air. Unnecessary to connect an exhaust duct

In accordance with VDE, EMC/radio interference protection, DVGW, IP X1.

Ordering information: Baskets must be ordered separately. Other models, eg with cladding in white or with decorative border, are available on request. Plinths are available to raise the loading height, please contact your local VWR sales office for details.

Model	G 7883 CD
Capacity	example: 37 narrow-necked glassware or 96 pipettes or 1600 test tubes
Circulation pump (Qmax)	400 l/min
Controller/programs	Multitronic Novo Plus controller (certain process parameters can be changed), with 10 standard cleaning programs
Metering devices	Door dispensers for powder detergent and liquid agents. 2 integrated dispensing pumps for liquid detergents or neutralising agents, drawer for 2 reservoirs - 5 l Active drying unit, submicron particulate air filter (HEPA filter H13) and prefilter

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Program operation/display	Operation via single-button program selector switch; program cycle displays, display of temperature and program duration, display at program end, visual and acoustic signal, indicator lamps for service and fault messages
Water connection	1× hot water, 1× cold water, 1× purified water
Weight (kg)	101
W×D×H (mm)	900×700×850 (820 mm without cover)

Description	Pk	Cat. No.
Laboratory glassware washer, G 7883 CD, stainless steel casing, hot-air drying unit, demineralised water pump and serial interface for process documentation	1	**141-0429**
Laboratory glassware washer, G 7883 CD, stainless steel casing, hot-air drying unit, MTN and serial interface for process documentation	1	**141-0290**
Laboratory glassware washer, G 7883 CD	1	**141-0458**
Laboratory glassware washer, G 7883 CD, stainless steel casing, hot-air drying unit, MTN, demineralised water pump and serial interface for process documentation	1	**141-1004**

Laboratory glassware washer, G 7893
Miele

With integrated hot air dryer

These front loading devices in stainless steel can fit under a work surface and have a large washing compartment with two levels. They are suitable for washing, to analytically pure standards, in industry, environmental and research laboratories. The machines are fitted with an integrated hot air drier and are only 600 mm wide.

- Direct coupling of the upper basket, either with spray arm or injector jets, to the water supply enables the items to be thoroughly cleaned inside and out
- Drying Plus enables the machine and also complex items to be effectively dried inside and out
- Integrated dosage pump for an accurate and automatic dosage of neutralisation agents
- Rinsing with demineralised water for analytically pure treatment results
- Profi-Monobloc water softener ensures continuous regeneration during cleaning
- Steam condenser prevents expelled moisture and hot air from damaging room; no connection to extractor required

Compliant with VDE, EMC/radio interference protection, IP X1

Ordering information: Basket and accessories must be ordered separately. For use as a standalone device, the cover must be ordered separately, please enquire for details.

Model	G 7893
Capacity	37 narrow-necked vessels or 96 pipettes or 1600 test tubes
Weight (kg)	78
Circulation pump (Qmax)	400 l/min
Controller/programs	Mutitronic Novo Plus controller (certain process parameters can be changed), with 10 standard cleaning programs
Drying	Drying Plus: Integrated hot air system with HEPA filter (H12)
Metering devices	Metering device/door for powder cleaning agent; metering device/door for liquid media; integrated dosage pump for neutralising agents; optionally extendable for dosage module DOS G 60 for liquid cleaning agents
Power connection	Input voltage 3N AC 400 V, 50 Hz, (16 A/9,7 kW)
Program operation/display	Program operation via single-button program selector switch; program cycle displays, display of temperature and program running time, display at program end, visual and acoustic signal, indicator lamps for service and fault messages
Water connection	2x cold water, 1x hot water, 1x purified water
W×D×H (mm)	600×600×850 (820 without cover)

Description	Pk	Cat. No.
Laboratory glassware washer, G 7893	1	**141-1007**

Laboratory and glassware washers, PG 8535 and PG 8536

Miele

PG 8535

PG 8536

External casing and tank in stainless steel

These cleaning and disinfection machines with integrated drying system and drawer have been designed for the treatment of clinical instruments and for washing laboratory glassware in research laboratories, biology and pharmaceutical industries. The new PG 85 range offers a wide range of innovations such as freely programmable PROFITRONIC+ controls, PerfectSpeed spray arm monitoring, temperature independent PerfectFlow dispensing control on the basis of ultrasound as well as PerfectPureSensor conductivity metering.

PerfectTouchControl: Simple to use, washer/disinfectors from the PG 85 series feature a touch sensitive display. A fully flush, chemical resistant display screen makes for simple and effective wipe disinfection. The interface involves the use of only a very limited number of controls; all steps in the process appear in the display in the user's own language. Users can select from a list of 20 languages.

PerfectSpeedSensor: To guarantee perfect and safe cleaning and disinfection results, the rotational speed of the spray arms must be within defined limits. With the new PerfectSpeed spray arm sensor, the speed of each individual spray arm is precisely monitored and documented – whether in the cabinet or onboard baskets and mobile units. The spray arm monitoring feature uses a sensor strip located outside the cabinet to detect the passage of spray arms and to ensure that speeds are within range. Information shown in the display indicates whether the values are correct or whether the user must intervene. In the event of a deviation from target values, either an error message is issued or the program is interrupted immediately to allow the user to deal with the cause of the fault, depending on system parameters.

PerfectFlowSensor: Miele's new PerfectFlowSensor using ultrasound technology offers considerably greater safety margins than conventional systems. The PerfectFlowSensor is a standard feature on the PG 85 series and guarantees an unparallelled degree of precision in controlling and monitoring volumetric flow, independent of viscosity and ambient temperatures. Any deviation from target quantities are safely detected and the reproducibility of validated processes guaranteed. An error message is issued or the program is aborted if values are outside the tolerance range.

PerfectPureSensor: Residue in the final rinse water can have a negative impact on reprocessing performance, sometimes even with catastrophic consequences. With the new PerfectPureSensor conductivity monitoring system featured by the new PG 8536, undesirable substances in the rinse water such as dissolved salts from alkaline or acidic process chemicals are reliably detected and limited to levels defined by the user. Recording conductivity over the entire process offers increased safety in ensuring the precise reproducibility of validated processes.

- Freely programmable PROFITRONIC+ controls with 64 program slots and standardised cleaning and disinfection programs; vacant program slots for user-compiled programs
- Perfect economy: durable materials, short cycle times, lower water and energy consumption
- Hygienic water supply system with fresh water intake at each program stage
- Optimum user convenience and precisely defined wash processes
- No manual pre- or post-cleaning

Conforms to VDE, VDE-EMC, DVGW, MDD CE 0366, IP 20

Ordering information: Baskets and inserts must be ordered separately

Model	PG 8535 D	PG 8536 D
Capacity	Example: 37 narrow-necked glassware items or 96 pipettes	Example: 66 narrow-necked glassware items or 96 pipettes
Controller/programs	Freely programmable Profitronic+ controller with 64 program slots and 16 standardised cleaning and disinfection programs; 39 vacant program slots for user-compiled programs	Freely programmable Profitronic+ controller with 64 program slots and 17 standardised cleaning and disinfection programs; 39 vacant program slots for user-compiled programs
Program operation/display	Touch screen control, clear display programs	
Cleaning mechanisms	Two spray arms (third spray arm on upper basket)	
Metering devices	1 dispenser pump for liquid acidic agents, 1 dispenser pump for liquid detergent, ultrasound dispensing volume control, drawer for 2× 5 l supply containers	1 dispenser pump for liquid acidic agents, 1 dispenser pump for liquid detergent, ultrasound dispensing volume control, drawer for 4× 5 l supply containers
Circulation pump (Qmax)	400 ml/min	600 ml/min
Control	Electric door lock, temperature control, Ao value control	
Water connection	1×cold water (EC), 1×cold water for vapour condenser, 1×hot water (AW), 1×demineralised water (AD)	
Power connection	Input voltage: AC 400 V, 50Hz - total electric connection: 9,7 kW	Input voltage: AC 400 V, 50 Hz - total electric connection: 10,2 kW
W×D×H (mm)	900×700×820	900×700×1175
Chamber W×D×H (mm)	535×500×500	
Weight (kg)	114	177

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Description	Pk	Cat. No.
PG 8535 D - built under/ freestanding units without lid		
PG 8535 D washer/disinfector with integrated pump for purified water, single door, front loading, freestanding, integrated drying and condenser and drawer for 2 canisters	1	**141-0569**
PG 8535 D, washer, with Oxivario program (for critical instruments), stainless steel single door, front loading, freestanding, integrated drying and condenser and drawer for 2 canisters	1	**141-0597**
PG 8535 D, washer, stainless steel single door, front loading, freestanding, integrated drying and condenser and drawer for 2 canisters	1	**141-0598**
PG 8535 D, washer/disinfector, with Oxivario program (for critical instruments), single door, front loading, freestanding, integrated drying and condenser and drawer for 2 canisters	1	**141-1009**
PG 8535 D, washer, stainless steel single door, front loading, freestanding, integrated drying and condenser and drawer for 2 canisters	1	**141-0599**
PG 8535 D, washer, stainless steel single door, front loading, freestanding, integrated drying and condenser and drawer for 2 canisters	1	**141-0600**
PG 8535 D, washer, stainless steel single door, front loading, freestanding, integrated drying and condenser and drawer for 2 canisters	1	**141-0610**
PG 8535 D, washer, with Oxivario program (for critical instruments), stainless steel single door, front loading, freestanding, integrated drying and condenser and drawer for 2 canisters	1	**141-0611**
PG 8535 D washer with integrated pump for purified water, stainless steel single door, front loading, freestanding, integrated drying and condenser and drawer for 2 canisters	1	**141-0641**
PG 8535 D, washer, with Oxivario program (for critical instruments), stainless steel single door, front loading, freestanding, integrated drying and condenser and drawer for 2 canisters	1	**141-0643**
PG 8536 D - Freestanding unit with lid		
PG 8536 D AE SSTE AD washer/disinfector, stainless steel, single door, front loading, freestanding, integrated hot air drying unit and drawer for 4 canisters	1	**141-0560**
PG 8536 D AE SST AD TA LFM washer/disinfector with conductivity control, stainless steel, single door, front loading, freestanding, integrated hot air drying unit and drawer for 4 canisters	1	**141-0592**
PG 8536 AE SST AD DK TA washer/disinfector, stainless steel, single door, front loading, freestanding, drawer for 4 canisters, integrated hot air drying unit, steam condenser and softener	1	**141-0593**
PG 8536 D AE SST OXI/ORTHO washer/disinfector, with Oxivario program (for critical instruments), single door, front loading, freestanding, integrated drying and condenser and drawer for 4 canisters	1	**141-1008**
PG 8536 D AE SST AD LFM washer/disinfector, with conductivity control, single door, front loading, freestanding, integrated drying and condenser and drawer for 4 canisters	1	**141-0594**
PG 8536 D AE SST AD LFM washer/disinfector with conductivity control, single door, front loading, freestanding, integrated hot air drying unit, distilled water with pressure and drawer for 4 canisters	1	**141-0601**
PG 8536 D AE SST ADP washer/disinfector with integrated pump for purified water, single door, front loading, freestanding, integrated drying and condenser and drawer for 4 canisters	1	**141-0634**
PG 8536 D AE SST AD washer/disinfector, stainless steel, single door, front loading, freestanding, distilled water with pressure and drawer for 4 canisters	1	**141-0635**
PG 8536 AD AE SST washer/disinfector, stainless steel, single door, front loading, freestanding, distilled water with pressure, drying unit and drawer for 4 canisters	1	**141-0636**
PG 8536 D AE SST AD washer/disinfector, stainless steel, single door, front loading, freestanding, distilled water with pressure, and drawer for 4 canisters	1	**141-0637**

Racks and baskets
Miele

E 329

O 188/1

O 187

Description	Equipment height (mm)	With	G 7883	G 7883CD	G 7835CD	G 7836CD	G 7893
O 175, top injector basket for narrow-necked glassware, with drying unit connection	170 mm	33 nozzles, 33 adjustment positions	-	×	×	×	×
E 414, full injector basket for narrow-necked glassware, with drying unit connection	-	37 nozzles,	-	×	×	×	×
E 380, full injector basket for narrow-necked glassware, with drying unit connection	-	One half with 15 nozzles 160 mm high, 17 nozzles 220 mm high. Other half free for half insert	-	×	×	×	×

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E 350, full injector trolley for narrow-necked glassware	-	One half with 15 nozzles 160 mm high, 18 nozzles 220 mm high. Other half free for half insert	×	-	-	-	-
E 340, half injector basket for narrow-necked glassware	-	One half with 19 nozzles. Other half free for half insert	×	×	×	×	×
U 874/1, bottom basket, mount for various inserts	dependent on top basket	-	×	×	×	×	×
O 188/1, top basket, mount for various inserts	165 mm	-	×	×	×	×	×
O 184, top injector basket for tubes and misc. laboratory glassware, with drying unit connection	170 mm	96 nozzles	×	×	×	×	×
O 187, top injector basket for narrow-necked / laboratory glassware	170 mm	34 nozzles	×	×	×	×	×
U 175 / 1, bottom injector basket for narrow-necked glassware	170 mm	33 nozzles / 33 adjustment positions, 1 rinsing nozzle	-	-	-	×	-
U 184/1, bottom basket, injector for misc. laboratory glassware	170 mm	96 nozzles	-	-	-	×	-
E 406, full injector basket for 116 pipettes	450 mm	-	×	-	-	-	-
E 408, full injector basket for 96 pipettes, with drying unit connection	450 mm	-	×	×	×	×	×
E 404/1, full injector basket for 38 pipettes, in 3 rows	-	-	×	-	-	-	-
E 355, half injector basket for narrow-necked glassware	-	One half with 7 nozzles 160 mm high, 9 nozzles 220 mm high. Other half free for half insert	×	-	-	-	-
E 329, full injector basket for narrow-necked glassware	-	39 nozzles	×	-	-	-	-
E 331, mobile injector unit for butyrometers	-	39 nozzles and 1× irrigation nozzle for powder dispenser	×	×	×	×	×
E 405/1 full injector basket TA for 38 pipettes in 3 rows	-	Row 1: 10 pipettes - 100 ml Row 2: 14 pipettes - 25 ml Row 3: 14 pipettes - 10 ml	-	×	×	×	×

Description	Pk	Cat. No.
O 175, top injector basket for narrow-necked glassware	1	**141-0345**
E 414, full injector basket for narrow-necked glassware	1	**141-0370**
E 380, full injector basket for narrow-necked glassware	1	**141-0366**
E 350, full injector basket for narrow-necked glassware	1	**141-0361**
E 340, half injector basket for narrow-necked glassware	1	**141-0360**
U 874/1, bottom basket/mount for various inserts	1	**141-0517**
O 188/1, top basket/mount for various inserts	1	**141-0562**
O 184, top injector basket for misc. laboratory glassware	1	**141-0346**
O 187, top injector basket for narrow-necked glassware	1	**141-0392**
U 175/1, bottom injector basket for narrow-necked glassware	1	**141-0515**
U 184/1, bottom injector basket for misc. laboratory glassware	1	**141-0516**
E 406, full injector basket for 116 pipettes	1	**141-0368**
E 408, full injector basket for 96 pipettes	1	**141-0369**
E 404/1, full injector basket for 38 pipettes	1	**141-0527**
E 405/1, full injector basket for 38 pipettes	1	**141-0336**
E 355, half injector basket for narrow-necked glassware	1	**141-1000**
E 329, full injector basket for narrow-necked glassware	1	**141-0357**
E 331, mobile injector unit for butyrometers	1	**141-0358**

Basket sets for general purpose laboratory glassware reprocessing
Miele

Compact unit or large machine, Miele Professional and VWR have the ideal automatic laboratory glassware reprocessing system; safe, standardised and validatable.

Two basket sets are available: The E 195 basket set is designed for appliances without forced-air drying (e.g. G7883) and the E 196 for appliances with forced-air drying (e.g. G7883 CD). The two sets are distinguished by the connection to the drying unit, signified by w TA (with drying connection) or w/o TA (without drying connection).

Compostion of E 195 set: 1× O 195 upper basket/open front empty, 1x E 356 mobile injector unit 1/2 multipurpose w/o TA, 2× AK 12 insert 1/2, 1× E 106 insert 1/2.

Compositon of E 196 set: 1× O195 upper basket/open front empty, 1× E 388 mobile injector unit 1/2 multipurpose w TA, 2× AK 12 insert 1/2, 1× E 106 insert 1/2.

Technical data of the components of the kits:

O 195 VWR: Upper basket/open front (empty): Upper basket with built-in spray arm and space for various inserts. W×D×H: 531×475×215 mm.

E 356 VWR: Mobile injection unit 1/2 multipurpose: The E 356 Miele-VWR injector basket is without drying connection. Half for narrow necked glassware, half for other inserts. Clearance with upper basket, 284 mm; clearance without upper basket, 488 mm.

E 388 VWR: Mobile injection unit 1/2 multipurpose TA: Same features of the E 356 but the E 388 has the connection for hot-air drying unit.

AK 12 insert 1/2: For funnels, beakers, wide necked flasks etc. W×D×H: 225×442×67/127 mm.

E 106 insert 1/2: For various laboratory glassware (narrow necked glassware, measuring flasks etc.). W×D×H: 195×430×186 mm.

- Universal loading: The concept allows for universal laboratory glassware, such as bottles, narrow-necked glassware, measuring glasses, beakers etc. to be prepared in one single batch
- Tall laboratory glassware can be prepared by removing the upper basket
- Simultaneous cleaning of flasks and their tops/plugs; cleaning of flasks in the injector basket and cleaning of the tops/plugs in the upper basket
- Highly economical preparation process by cleaning on 2 levels

Description	Pk	Cat. No.
E 195 set without TA (without drying connection)	1	**141-0148**
E 196 set with TA (with drying connection)	1	**141-0149**

Professional washing machine, Easy Wash, Basic Line, 60 cm, GW0160 series
Smeg

Multipurpose washer for professional use able to wash up to 85 °C (thermal disinfection) and dose liquid detergent and neutraliser by peristaltic pumps. This washer represents a perfect choice to wash and disinfect all kinds of instruments used in small laboratories, universities, schools, specialised clinics, veterinary clinics and more.

- 7 standard programs stored
- Microprocessor electronic control
- LCD display with LED indicators for easy communication
- Washing chamber and internal door in high grade AISI 304 stainless steel
- Integrated water softener and salt sensor
- Cold water and demineralised water connections
- Electronic door lock system for user safety
- Up 2 dosing peristaltic pumps for liquid dosing (liquid dosing improves the washing performance)

Delivery information: Delivered without baskets, please contact your local VWR sales office for details.

Model	GW0160	GW0160S
No. of washing levels	2	
Capacity	150 l (washing chamber)	
Controller/programs	7 standard programs	
Program operation/display	7 standard programs stored, LCD display	
Metering devices	Pump for liquid neutraliser	Two liquid dispensers for powder reagents, mounted on the interior of the door
Control	Microprocessor electronic control, electronic door lock system	
Temperature (°C)	85	
Water connection	Cold and demineralised water inlets	
Power connection	230V, (1 phase), 2,8 kW	
W×D×H (mm)	600×605×850	
Chamber W×D×H (mm)	520×515×545	
Weight (kg)	67	

Description	Pk	Cat. No.
Professional glassware washer, with powder detergent dispenser, stainless steel, basic line, GW0160	1	**141-0680**
Professional glassware washer, with pump for liquid neutraliser, stainless steel, basic line, GW0160S	1	**141-0681**

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Description	For	Pk	Cat. No.
Accessories			
B6040L, plinth, stainless steel, with lock: 600×530×400 mm (W×D×H). Raises load level to 70 cm above floor	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S, GW4060, GW4060C, GW4060S, GW4060SC	1	**141-0652**
P14060 dosing pump for liquid detergent	GW0160, GW1160, GW1160C, GW1160S, GW1160SC, GW4060, GW4060C, GW4060S, GW4060SC, GW4190	1	**141-0759**
PAD booster pump for low pressure RO or DI water, tank at least 85 cm above floor level. Requires PAD2R when installed in Basic Line models	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW2045, GW4060, GW4060C, GW4060S, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0763**
PAD2 booster pump for non pressurised RO or DI water feed, where tank is positioned at floor level. Requires PAD2R when installed in Basic Line models	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW2045, GW3060BX, GW3060BXC, GW3060P, GW3060SC, GW4060, GW4060C, GW4060S, GW4060SC, GW4090C, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0764**
PAD2R relay kit, required to control PAD2 pump on Basic Line machines	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW2045, GW3060BX, GW3060BXC,GW3060P,GW3060SC, GW4060, GW4060C, GW4060S, GW4060SC, GW4090C, GW4190, GW4190S, GW4190SC GW4190C, GW4090, GW4090C	1	**141-0765**
TOP60I, Stainless steel top for 60 cm built-in models, up to 825 mm high	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S, GW4060, GW4060C, GW4060S, GW4060SC	1	**141-0805**

Laboratory thermal glassware disinfector, Basic Line, 45 cm, GW2045

Smeg

The Smeg disinfection machines guarantee excellent washing and effective thermal disinfection of laboratory glassware as well as complex and delicate instruments. Designed to meet the requirements of all laboratories it has efficacious washing and thermal disinfection capabilities and small footprint so effective use of the available working space. The Basic Line models demonstrate numerous advantages when it comes to both management and safety aspects; for example, no manual procedures are required, no chemical disinfectants are required, there is no direct contact with dangerous substances, the impact on the environment is reduced so effective washing and thermal disinfection are guaranteed.

The GW2045 model is perfect for smaller laboratories facing space restrictions. Its compact design gives no compromise to quality cleaning of glassware and other laboratory equipment. This small yet powerful machine also offers thermal drying with a built in vapour condenser.

- Washing up to 95 °C - antibacterical thermal disinfection
- Up to 2 dosing pumps integrated in the machine
- Programmable microprocessor controller
- Electronic programming: 6 fixed programs plus 2 free programs
- RS232 for connection to external printer or PC
- External panels in AISI 304 stainless steel, washing chamber and internal door in AISI 316L stainless steel
- 2 independent washing levels through telescopic guides, active thermodynamic drying
- Security lock and automatic door opening for steam removal at the end of the cycle

Ordering information: Although the Basic Line series are equipped with top and bottom baskets, additional injector racks should be ordered as appropriate.

Delivery information: The upper and lower baskets are included.

Model	GW2045
No. of washing levels	1 - 2
Controller/programs	6 standard programs and 2 customisable programs
Program operation/display	8 pre-washing, washing, neutralisation, 2 mains water rinses, 2 demineralised water rinses, hot rinsing, with segments and warning light display
Metering devices	Detergent dispenser for powder or liquid detergent (max. 1 powder and 2 liquid), alkaline powder detergent dispenser and peristaltic pump to dispense acid neutraliser liquid (max. two feed pumps)
Circulation pump (Qmax)	200 l/min
Adjustable parameters	Execution times, operating temperatures, quantity of additives, number of phases
Control	Microprocessor; safety lock with electromagnetic release and automatic opening
Temperature (°C)	95
Water connection	Cold and demineralised water inlets
Water heating power	max. 3,0 kW
Power connection	1P+N, 230V, 50Hz, 3.3 KW
Noise level	max. 50 dB(A)
W×D×H (mm)	450×620×850
Chamber W×D×H (mm)	380×480×590
Weight (kg)	61

Description	Pk	Cat. No.
Laboratory glassware washer, stainless steel, Basic Line, GW2045	1	**141-0685**

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Description	For	Pk	Cat. No.
Accessories			
ADU Universal peristatic pump for liquid additives	GW2045, GW3060BX, GW3060BXC, GW3060S, GW3060SC, GW4090	1	**141-0648**
PAD booster pump for low pressure RO or DI water, tank at least 85 cm above floor level. Requires PAD2R when installed in Basic Line models	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW2045, GW4060, GW4060C, GW4060S, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0763**
PAD2 booster pump for non pressurised RO or DI water feed, where tank is positioned at floor level. Requires PAD2R when installed in Basic Line models	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW2045, GW3060BX, GW3060BXC, GW3060P, GW3060SC, GW4060, GW4060C, GW4060S, GW4060SC, GW4090C, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0764**
PAD2R relay kit, required to control PAD2 pump on Basic Line machines	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW2045, GW3060BX, GW3060BXC,GW3060P,GW3060SC, GW4060, GW4060C, GW4060S, GW4060SC, GW4090C, GW4190, GW4190S, GW4190SC GW4190C, GW4090, GW4090C	1	**141-0765**
Stainless steel top for 45 cm built in models, up to 825 mm high	GW2045	1	**141-0804**

Laboratory glassware washer, Basic Line, 60 cm, GW1160 series

Smeg

The Smeg disinfection machines guarantee excellent washing and effective thermal disinfection of laboratory glassware as well as complex and delicate instruments. Designed to meet the requirements of all laboratories it has efficacious washing and thermal disinfection capabilities and small footprint so effective use of the available working space. The Basic Line models demonstrate numerous advantages when it comes to both management and safety aspects; for example, no manual procedures are required, no chemical disinfectants are required, there is no direct contact with dangerous substances, the impact on the environment is reduced so effective washing and thermal disinfection are guaranteed.

The GW1160 models are equipped with automatically regenerating water softeners, use freshly drawn water in every phase and have a dispenser for alkaline powder and a peristaltic pump for the acid neutraliser.

- Washing up to 95 °C - antibacterical thermal disinfection
- Programmable microprocessor controller
- Electronic programming: 9 fixed programs plus 6 free programs
- RS232 for connection to external printer or PC
- External panels in AISI 304 stainless steel, washing chamber and internal door in AISI 316L stainless steel
- 2 independent washing levels through telescopic guides, active thermodynamic drying
- Integrated water softener with salt sensor, cold water and demineralised water connections
- Electronic door lock for user safety

Ordering information: Although the Basic Line series are equipped with top and bottom baskets, additional injector racks should be ordered as appropriate.

Delivery information: Supplied as standard with 3 phase electrical supply but single phase is available on request.

Model	GW1160	GW1160C	GW1160S	GW1160SC
No. of washing levels	1 – 2			
Controller/programs	9 standard programs and 6 customisable programs			
Program operation/display	8 pre-washing, washing, neutralisation, 2 mains water rinses, 2 demineralised water rinses, hot rinsing, with segments and warning light display			
Metering devices	Detergent dispenser for powder or liquid detergent (max. 1 powder and 3 liquid), alkaline powder detergent dispenser and peristaltic pump to dispense acid neutraliser liquid (max. three feed pumps)			
Circulation pump (Qmax)	400 l/min			
Adjustable parameters	Execution times, operating temperatures, quantity of additives, number of phases			
Control	Microprocessor; safety lock with electromagnetic release and automatic opening			
Temperature (°C)	95			
Water connection	Cold and demineralised water inlets			
Water heating power	6,3 kW			
Power connection	3P+N 400V 50Hz 7kW max			
Noise level	max. 50 dB(A)			
W×D×H (mm)	600×605×850			
Chamber W×D×H (mm)	520×515×545			
Weight (kg)	77			

Description	Pk	Cat. No.
Laboratory glassware washer, Basic Line, GW1160, with powder detergent dispenser and peristaltic pump for neutraliser	1	**141-0682**
Laboratory glassware washer, Basic Line, GW1160C with powder detergent dispenser, peristaltic pump for neutraliser and steam condenser	1	**141-0683**
Laboratory glassware washer, Basic Line, GW1160S, with peristaltic pumps for detergent and peristaltic pump for neutraliser	1	**141-0294**
Laboratory glassware washer, Basic Line, GW1160SC, with peristaltic pumps for detergent, neutraliser and steam condenser	1	**141-0684**

Description	For	Pk	Cat. No.
Accessories			
B6040L, plinth, stainless steel, with lock: 600×530×400 mm (W×D×H). Raises load level to 70 cm above floor	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S, GW4060, GW4060C, GW4060S, GW4060SC	1	**141-0652**
P14060 dosing pump for liquid detergent	GW0160, GW1160, GW1160C, GW1160S, GW1160SC, GW4060, GW4060C, GW4060S, GW4060SC, GW4190	1	**141-0759**
P34060 dosing pump for liquid additives	GW0160, GW1160, GW1160C, GW1160S, GW1160SC, GW4060, GW4060C, GW4060S, GW4060SC, GW4190	1	**141-0760**

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Description	For	Pk	Cat. No.
Accessories			
PAD2 booster pump for non pressurised RO or DI water feed, where tank is positioned at floor level. Requires PAD2R when installed in Basic Line models	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW2045, GW3060BX, GW3060BXC, GW3060P, GW3060SC, GW4060, GW4060C, GW4060S, GW4060SC, GW4090C, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0764**
PAD2R relay kit, required to control PAD2 pump on Basic Line machines	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW2045, GW3060BX, GW3060BXC,GW3060P,GW3060SC, GW4060, GW4060C, GW4060S, GW4060SC, GW4090C, GW4190, GW4190S, GW4190SC GW4190C, GW4090, GW4090C	1	**141-0765**
TOP60I, Stainless steel top for 60 cm built-in models, up to 825 mm high	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S, GW4060, GW4060C, GW4060S, GW4060SC	1	**141-0805**
Loading trolley, stainless steel, with wheels and handle, for machines with plinth	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S, GW4060, GW4060C, GW4060S, GW4060SC, GW4090, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0676**
KP100 upper jet rack with 100 nozzles, stainless steel, for test tubes, vials, centrifuge tubes	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S	1	**141-0702**
KP200 dual level jet rack, 100 nozzles on each level,, stainless steel, for test tubes, vials, centrifuge tubes	GW1160, GW1160C, GW1160S, GW3060BX, GW3060BXC, GW3060P, GW3060S, GW3060SC	1	**141-0704**
LB16S upper jet rack with 16 nozzles, stainless steel, for bottles, max. diam 101 mm, max. height 245 mm	GW0160, GW0160S, GW1160, GW1160C , GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S	1	**141-0714**
LB8 jet rack, stainless steel, with 16 nozzles, for bottles, max. height 500 mm	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060,P GW3060S	1	**141-0724**
LBT4 jet rack, stainless steel, with 4 nozzles, for 5 litre Erlenmeyer flasks	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060,P GW3060S	1	**141-0726**
LBT5 jet rack, stainless steel, with 5 nozzles, for 5 litre bottles, max 180×500 mm (Ø×H)	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060,P GW3060S	1	**141-0728**
LM40 universal jet rack, stainless steel, 40 assorted nozzles, for washing narrow necked glassware	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060,P GW3060S	1	**141-0734**
LPT100 jet rack for 100 pipettes, max. height 450 mm, stainless steel	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060,P GW3060S	1	**141-0748**

Laboratory glassware washer with drying system, Basic Line, 60 cm, GW4060 series

Smeg

The Smeg disinfection machines guarantee excellent washing and effective thermal disinfection of laboratory glassware as well as complex and delicate instruments. Designed to meet the requirements of all laboratories it has efficacious washing and thermal disinfection capabilities and small footprint so effective use of the available working space. The Basic Line models demonstrate numerous advantages when it comes to both management and safety aspects; for example, no manual procedures are required, no chemical disinfectants are required, there is no direct contact with dangerous substances, the impact on the environment is reduced by separating the drained fluids so effective washing and thermal disinfection are guaranteed.

GW4060 models are equipped with automatically regenerating water softeners and use freshly drawn water in every phase. These new generation machines exhibit, even in a compact space, it presents the more advanced technologies such as a drying system with forced air and integrated peristaltic pumps to achieve a perfect wash and drying cycle.

- Washing up to 95 °C - antibacterical thermal disinfection
- Up to 3 dosing pumps integrated in the machine
- External panels in AISI 304 stainless steel, washing chamber and internal door in AISI 316L stainless steel
- Programmable microprocessor controller: 9 fixed programs plus 6 free programs
- RS232 for connection to external printer or PC
- Eco-slim steam condenser; low water consumption (C and SC models only)
- Active drying system with air filter
- Security lock and automatic door opening for steam removal at the end of the cycle

Ordering information: Although the Basic Line series are equipped with top and bottom baskets, additional injector racks should be ordered as appropriate.

Model	GW4060	GW4060S	GW4060C	GW4060SC
No. of washing levels	1 - 2			
Controller/programs	9 standard programs and 6 customisable programs			
Program operation/display	Eight programmable phases and display with segment and communication LED icons			
Metering devices	Detergent dispenser for powder or liquid detergent (max. 1 powder and 2 liquid), alkaline powder detergent dispenser and peristaltic pump to dispense acid neutraliser liquid (max. three feed pumps)			
Circulation pump (Qmax)	400 l/min			
Adjustable parameters	Execution times, operating temperatures, quantity of additives, number of phases			
Control	Microprocessor; safety lock with electromagnetic release and automatic opening			
Temperature (°C)	95			
Water connection	Cold and demineralised water inlets			
Water heating power	6,3 kW			
Drying power	0,8 kW			

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Power connection	400 V, 50 Hz (3 phase)
Noise level	max. 50 dB(A)
W×D×H (mm)	600×605×850
Chamber W×D×H (mm)	520×515×545
Weight (kg)	70

Description	Pk	Cat. No.
Laboratory glassware washer, with forced hot air drying, stainless steel, Basic Line, GW4060	1	**141-0691**
Laboratory glassware washer, with forced hot air drying, stainless steel, Basic Line, GW4060S	1	**141-0693**
Laboratory glassware washer, with forced hot air drying and steam condenser, stainless steel, Basic Line, GW4060C	1	**141-0692**
Laboratory glassware washer, with forced hot air drying and steam condenser, stainless steel, Basic Line, GW4060SC	1	**141-0694**

Description	For	Pk	Cat. No.
Accessories			
AF4060 absolute HEPA filter kit	GW4060, GW4060C, GW4060S, GW4060SC	1	**141-0650**
B6040L, plinth, stainless steel, with lock: 600×530×400 mm (W×D×H). Raises load level to 70 cm above floor	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S, GW4060, GW4060C, GW4060S, GW4060SC	1	**141-0652**
P14060 dosing pump for liquid detergent	GW0160, GW1160, GW1160C, GW1160S, GW1160SC, GW4060, GW4060C, GW4060S, GW4060SC, GW4190	1	**141-0759**
P34060 dosing pump for liquid additives	GW0160, GW1160, GW1160C, GW1160S, GW1160SC, GW4060, GW4060C, GW4060S, GW4060SC, GW4190	1	**141-0760**
PAD booster pump for low pressure RO or DI water, tank at least 85 cm above floor level. Requires PAD2R when installed in Basic Line models	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW2045, GW4060, GW4060C, GW4060S, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0763**
PAD2 booster pump for non pressurised RO or DI water feed, where tank is positioned at floor level. Requires PAD2R when installed in Basic Line models	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW2045, GW3060BX, GW3060BXC, GW3060P, GW3060SC, GW4060, GW4060C, GW4060S, GW4060SC, GW4090C, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0764**
PAD2R relay kit, required to control PAD2 pump on Basic Line machines	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW2045, GW3060BX, GW3060BXC,GW3060P,GW3060SC, GW4060, GW4060C, GW4060S, GW4060SC, GW4090C, GW4190, GW4190S, GW4190SC GW4190C, GW4090, GW4090C	1	**141-0765**
TOP60I, Stainless steel top for 60 cm built-in models, up to 825 mm high	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S, GW4060, GW4060C, GW4060S, GW4060SC	1	**141-0805**
Lower trolley, stainless steel, for holding supports and baskets	GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S, GW3060SC, GW4060, GW4060S, GW4060SC, GW4090, GW4090C	1	**141-0293**
KP100DS upper jet rack, stainless steel, for test tubes, vials, centrifuge tubes, with drying system	GW4060, GW4060C, GW4060S, GW4060SC, GW4090, GW4090C, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0703**
KP200DS dual level jet rack, 100 nozzles on each level, stainless steel, for test tubes, vials, centrifuge tubes, with drying system	GW4060, GW4060C, GW4060S, GW4060SC, GW4090, GW4090C, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0705**
LB1-20DS jet rack, stainless steel, for one large bottle or drum, max. 300×350 mm (Ø×H)	GW4060, GW4060C, GW4060S, GW4060SC, GW4090, GW4090C, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0711**
LB8DS jet rack, stainless steel, with 16 nozzles and drying system, for large dimension glassware, max. height 500 mm	GW4060, GW4060C, GW4060S, GW4060SC, GW4090, GW4090C, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0725**
LBT4DS jet rack, stainless steel, with 4 nozzles and drying system, for 5 litre Erlenmeyer flasks	GW4060, GW4060C, GW4060S, GW4060SC, GW4090, GW4090C, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0727**
LBT5DS jet rack, stainless steel, with 5 nozzles and drying system, for 5 litre bottles, max. 180×500 mm (Ø×H)	GW4060, GW4060C, GW4060S, GW4060SC, GW4090, GW4090C, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0729**
LPM2020DS jet rack, stainless steel, with drying system, with 20 pipette jets plus 20 assorted jet nozzles	GW4060, GW4060C, GW4060S, GW4060SC, GW4090, GW4090C, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0746**

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Laboratory glassware washer, Professional Line, 60 cm, GW3060 series

Smeg

This range of professional Smeg washing and thermal disinfection machines are manufactured using high quality materials and components in order to achieve the best results. The wash chambers are made of AISI 316L quality stainless steel which is resistant to strong acids (as used in the pharmaceutical and food industries).

The GW3060 offers the possibility of programming all the washing parameters by means of a multifunction membrane keypad or directly from a PC thanks to the USB, RS232 or LAN connections and WD-TRACE® registered software. The heart of the GW3060 glassware washer is the ultra modern control system with 4 microprocessors that control every activity carried out and monitor the entire flow of information processed by the machine.

- Washing up to 95 °C - antibacterical thermal disinfection
- Programmable microprocessor controller: 20 fixed programs plus 10 free programs
- RS232, USB and LAN for connection to external printer or PC
- External panels in AISI 304 stainless steel, washing chamber and internal door in AISI 316L stainless steel
- Robust design on all components to provide years of reliable, maintenance free use
- Forced vacuum convection drying
- Recirculation pump 400 l/min, for maximum cleaning and rinse efficiency
- Hot, cold and demineralised water connections
- Full cycle monitoring via upgraded large LCD display
- Temperature control in chamber with continuous display readout
- Fast water heating via 3 selectable heating elements
- Increased traceability and validation capabilities
- Low temperature cycles for washing plastics
- Capability to pump and circulate four times the amount of water of a home dishwasher
- Specific cycles for acid wash (neutraliser) programs

Ordering information: Supplied without baskets, please order separately.

Model	GW3060BX	GW3060BXC	GW3060S	GW3060SC	GW3060P
No. of washing levels	1 - 2				
Controller/programs	20 standard programs and 10 customisable programs (expandable to 50)				
Program operation/display	Backlit graphic LCD display with 10 programmable phases				
Metering devices	Alkaline powder detergent dispenser and peristaltic pump for liquid neutraliser (max. 4 feed pumps)		Peristaltic pumps for liquid neutraliser and liquid detergent (max. 4 feed pumps)		Peristaltic pumps for liquid neutraliser, liquid detergent, caustic soda solution and anti-foam additive (max. 4 feed pumps)
Circulation pump (Qmax)	400 l/min				
Adjustable parameters	Execution times, operating temperatures, quantity of additives, number of phases				
Control	Three microprocessors plus optional communication card; safety lock with electromagnetic release and automatic opening				
Temperature (°C)	+95 max.				
Water connection	Cold, hot and demineralised water connections				
Water heating power	max. 6,3 kW				
Power connection	400 V, 50 Hz (3 phase)				
Noise level	max. 50 dB(A)				
W×D×H (mm)	600×640×850				
Chamber W×D×H (mm)	520×515×545				
Weight (kg)	76				

Description	Pk	Cat. No.
Laboratory glassware washer, Professional Line, GW3060BX, with powder detergent dispenser and peristalitic pump for neutraliser	1	**141-0686**
Laboratory glassware washer, Professional Line, GW3060BXC, with powder detergent dispenser, peristalitic pump for neutraliser and steam condenser	1	**141-0687**
Laboratory glassware washer, Professional Line, GW3060S, with peristaltic pumps for detergent and neutraliser	1	**141-0689**
Laboratory glassware washer, Professional Line, GW3060SC, with peristaltic pumps for detergent and neutraliser and steam condenser	1	**141-0690**
Laboratory glassware washer, Professional Line, GW3060P, with peristatic pumps for detergent, neutraliser, soda and antifoam (petrol/oil washing)	1	**141-0688**

Description	For	Pk	Cat. No.
Printer for Smeg glassware washers			
External 24-character dot matrix thermal printer with real-time clock function	GW1160, GW1160C, GW1160S, GW1160SC, GW2045, GW3060BX, GW3060BXC, GW3060P, GW3060S, GW3060SC, GW4060C, GW4060S, GW4060SC, GW4090, GW4090C	1	**141-0832**
Accessories			
B6040L, plinth, stainless steel, with lock: 600×530×400 mm (W×D×H). Raises load level to 70 cm above floor	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S, GW4060, GW4060C, GW4060S, GW4060SC	1	**141-0652**
ADU Universal peristatic pump for liquid additives	GW2045, GW3060BX, GW3060BXC, GW3060S, GW3060SC, GW4090	1	**141-0648**
PAD2 booster pump for non pressurised RO or DI water feed, where tank is positioned at floor level. Requires PAD2R when installed in Basic Line models	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW2045, GW3060BX, GW3060BXC, GW3060P, GW3060SC, GW4060, GW4060C, GW4060S, GW4060SC, GW4090C, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0764**
IC5090 Conductivity sensor for quality rinse check and invokes extra rinses if required	GW3060BX, GW3060BXC, GW3060P, GW3060S, GW3060SC, GW4090, GW4090C	1	**141-0697**

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Description	For	Pk	Cat. No.
Accessories			
TOP60I, Stainless steel top for 60 cm built-in models, up to 825 mm high	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S, GW4060, GW4060C, GW4060S, GW4060SC	1	**141-0805**
CPB1 upper rack, stainless steel, with supports for 14 tasting goblets	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S, GW4090, GW4090C, GW4190, GW4190C, GW4190S	1	**141-0666**
Loading trolley, stainless steel, with wheels and handle, for machines with plinth	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S, GW4060, GW4060C, GW4060S, GW4060SC, GW4090, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0676**
KP100 upper jet rack with 100 nozzles, stainless steel, for test tubes, vials, centrifuge tubes	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S	1	**141-0702**
KP200 dual level jet rack, 100 nozzles on each level,, stainless steel, for test tubes, vials, centrifuge tubes	GW1160, GW1160C, GW1160S, GW3060BX, GW3060BXC, GW3060P, GW3060S, GW3060SC	1	**141-0704**
LB16S upper jet rack with 16 nozzles, stainless steel, for bottles, max. diam 101 mm, max. height 245 mm	GW0160, GW0160S, GW1160, GW1160C , GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060P, GW3060S	1	**141-0714**
LB4 jet rack, stainless steel, with 4 nozzles, for large bottles 2×10 l (227×410 mm) plus 2×5 l (182×330 mm) (Ø×H)	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060,P GW3060S	1	**141-0718**
LB8 jet rack, stainless steel, with 16 nozzles, for bottles, max. height 500 mm	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060,P GW3060S	1	**141-0724**
LBT4 jet rack, stainless steel, with 4 nozzles, for 5 litre Erlenmeyer flasks	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060,P GW3060S	1	**141-0726**
LBT5 jet rack, stainless steel, with 5 nozzles, for 5 litre bottles, max 180×500 mm (Ø×H)	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060,P GW3060S	1	**141-0728**
LM40 universal jet rack, stainless steel, 40 assorted nozzles, for washing narrow necked glassware	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060,P GW3060S	1	**141-0734**
LMP2010 jet rack with 1/4 position for test tube rack, 10 pipette wash positions and 20 assorted nozzle sizes, stainless steel	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060,P GW3060S	1	**141-0744**
LPT100 jet rack for 100 pipettes, max. height 450 mm, stainless steel	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW3060BX, GW3060BXC, GW3060,P GW3060S	1	**141-0748**

High capacity laboratory glassware washer, professional line, 90 cm, GW6090 series

Smeg

The range of professional Smeg washing and thermal disinfection machines is manufactured according to specific projects using professional materials and special components in order to achieve the best results from a technological point of view. The wash chambers are made of AISI 316 l quality stainless steel, resistant to strong acids (as used in the pharmaceutical and food industries). GW6090 is a machine with a high loading capacity capable of handling large quantities of material in a short space of time and of washing large-sized instruments. Washing chamber 670x650x835 mm (three times the useful volume of medium-sized machines). Able to load up to three direct injection glassware levels or 3 levels with rotating spray arms

For washing large sized instruments. GW6090 has been specially designed for washing large quantities of material quickly and effectively. Using a large washing chamber (three times that of the useful volume of medium sized machines) it is able to wash the large-sized instruments that other washers are unable to handle. It equipped with 3 different levels (for up to three direct injection racks or three levels with rotating spray arms), and is suitable for laboratories dealing with large quantities of glassware.

- Washing up to 95°C - antibacterical thermal disinfection
- Up to 4 dosing pumps integrated in the machine
- Microprocessor programmable electronic control
- Electronic programming: 20 fixed programs + 10 free programs
- Serial port RS232 for connection to external printer or PC
- External panels in stainless steel AISI 304, washing chamber and internal door in stainless steel AISI 316L
- 4 washing levels
- Security lock and automatic door opening for steam removal at the end of the cycle
- Delayed start and password protection
- Wash area 0,52 m^2
- Heated fan forced drying with 98% efficiency filtered air
- Graphic diplay with text in several languages

Ordering informations: Supplied without baskets, please order separately.

Model	GW6090BDS
No. of washing levels	1 - 3
Controller/programs	20 standard programs and 10 customisable programs (expandable to 50)
Program operation/display	Backlit graphic LCD display with 10 reprogrammable phases
Metering devices	Peristaltic pumps for liquid neutraliser and liquid detergent (max. 5 feed pumps)
Circulation pump (Qmax)	2 × 400 l/min (one for chamber, one for injection racks)
Adjustable parameters	Execution times, operating temperatures, quantity of additives, number of phases
Control	Three microprocessors plus optional communication card; safety lock with electromagnetic release and automatic opening

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Temperature (°C)	+95 max.
Water connection	Cold water, hot water and demineralised water connections
Water heating power	17,7 kW
Drying power	4 kW
Power connection	400 V, 50 Hz (3 phase)
Noise level	max. 50 dBA
W×D×H (mm)	900×800×1900
Chamber W×D×H (mm)	670×650×835
Weight (kg)	282

Description	Pk	Cat. No.
Laboratory glassware washer, high capacity, with forced hot air drying system, stainless steel, without trolley, professionnal line, GW6090BDS	1	**141-0696**

Description	For	Pk	Cat. No.
Printer for Smeg glassware washers			
Thermal printer, integrated in the panel	GW6090	1	**141-0831**
Accessories			
AF4050 absolute HEPA filter kit	GW6090B and GW6090BDS	1	**141-0649**
P36090 universal peristaltic pump for liquid additives	GW6090B, GW6090BDS	1	**141-0761**
PAD2 booster pump for non pressurised RO or DI water feed, where tank is positioned at floor level. Requires PAD2R when installed in Basic Line models	GW0160, GW0160S, GW1160, GW1160C, GW1160S, GW1160SC, GW2045, GW3060BX, GW3060BXC, GW3060P, GW3060SC, GW4060, GW4060C, GW4060S, GW4060SC, GW4090C, GW4190, GW4190C, GW4190S, GW4190SC	1	**141-0764**
IC6000 Digital conductivity indicator, measuring range 0 - 100 µs/cm, with backlit LCD display	GW6090B and GW6090BDS	1	**141-0698**
C61 basket for lower level, stainless steel, with spray arm	GW6090B, GW6090BDS	1	**141-0655**
C62 basket for upper or middle level, stainless steel, with spray arm	GW6090B, GW6090BDS	1	**141-0656**
C63 universal support for injection systems, in stainless steel, middle or upper level	GW6090B, GW6090BDS	1	**141-0657**
C64 jet rack with 4 positions for large containers, lower level only, stainless steel, for lower level glassware and large dimension containers	GW6090B, GW6090BDS	1	**141-0658**
Trolley, stainless steel, for large bottles or drums	GW6090B, GW6090BDS	1	**141-0739**

General accessories for laboratory glassware washer
Smeg

SB14

CP105

CSK2

Description	For	W×D×H (mm)	Pk	Cat. No.
Supports				
SB14 spring support, stainless steel, 14 positions, in D-CS1 / D-CS2 baskets	Beakers / Erlenmeyer flasks, 250 - 1000	422×146×184	1	**141-0786**
SB15 spring support, stainless steel, 16 positions, in CS1-1 / CS2 baskets	Beakers / Erlenmeyer flasks, 250 - 1000	400×195×185	1	**141-0787**
SB25 spring support, stainless steel, 28 positions, in CS1-1 / CS2 baskets	Beakers / Erlenmeyer flasks, 250 - 500	400×195×115	1	**141-0788**
SB28 spring support, stainless steel, 28 positions, in CS1-1 / CS2 baskets	Beakers / Erlenmeyer flasks, 250 - 1000	400×195×115	1	**141-0789**
SB30 beaker support, stainless steel, 30 positions, in CS1-1 / CS2 baskets	Cylinders / funnels	400×195×150	1	**141-0790**
SB9 beaker support, stainless steel, 9 positions, in D-CS1 / D-CS2 baskets	Cylinders / funnels	420×145×160	1	**141-0791**
SL18 basket, with support, stainless steel, for CS1-1 / CS2 baskets	Chromatography plates	465×215×130	1	**141-0794**
SL6 plate support, with cover, stainless steel, for CS1-1 / CS2 baskets	Holding 6 plates	485×145×80	1	**141-0795**
SL9 plate support, stainless steel, for CS1-1 / CS2 baskets	Holding 9 plates	395×195×110	1	**141-0796**
PB100 wide neck bottle support, stainless steel, for CS1-1 / CS2 baskets	32 wide neck bottles, 100	-	1	**141-0766**
PB1000 wide neck bottle support, stainless steel, for CS2 basket	16 wide neck bottles, 1000	-	1	**141-0767**
PB250 wide neck bottle support, stainless steel, for CS2 basket	24 wide neck bottles, 250	-	1	**141-0768**
PB50 wide neck bottle support, stainless steel, for CS1-1 / CS2 baskets	56 wide neck bottles, 50	-	1	**141-0769**

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Description	For	W×D×H (mm)	Pk	Cat. No.
Supports				
PB500 wide neck bottle support, stainless steel, for CS2 basket	21 wide neck bottles, 500	-	1	**141-0770**
PB6000 wide neck bottle support, stainless steel, for CS2 basket	25 Erlenmeyer flasks, 1000 - 5000	-	1	**141-0771**
CP105 test tube basket, with 2 removable compartments with lid, stainless steel, height 75 mm, for CS1-1 / CS2 baskets	160 standard test tubes	-	1	**141-0662**
CP132 test tube basket, with 2 removable compartments with lid, stainless steel, height 105 mm, for CS1-1 / CS2 baskets	160 standard test tubes	-	1	**141-0663**
CP192 test tube basket, with 2 removable compartments with lid, stainless steel, height 165 mm, for CS1-1 / CS2 baskets	160 standard test tubes	-	1	**141-0664**
CP222 test tube basket, with 2 removable compartments with lid, stainless steel, height 200 mm, for CS1-1 / CS2 baskets	160 standard test tubes	-	1	**141-0665**
LP6 pipette adapter, 100 positions	multi-nozzle systems	-	1	**141-0742**
PD70I lower support, stainless steel, for lower level CS-1 basket	40 Petri dishes, 50 - 70 mm	-	1	**141-0775**
PD100I lower support, stainless steel, for CS2 basket	38 Petri dishes, 70 - 120 mm	-	1	**141-0772**
PD100S upper support, stainless steel, for CS1-1 basket or on supports PD70 I / PD100 I	38 Petri dishes, 70 - 120 mm	-	1	**141-0773**
PD70S upper support, stainless steel, for CS1-1 basket or on supports PD70 I / PD100 I	40 Petri dishes, 50 - 70 mm	-	1	**141-0776**
D-PF1 stainless steel 10×10 mm mesh netting with central hole	D-CS1 upper basket	305×425×11	1	**141-0677**
GPF1 stainless steel 10×10 mm mesh netting with central hole	CS1-1 upper basket	454×434×11	1	**141-0777**
D-PF2 stainless steel 10×10 mm mesh netting	D-CS2 lower basket	305×425×11	1	**141-0678**
PF1/2 stainless steel 10×10 mm mesh netting with central hole	Half upper CS1-1 basket	434×224×11	1	**141-0778**
PF2 stainless steel 10×10 mm mesh netting	CS2 lower basket	305×425×11	1	**141-0779**
RC1 glassware fixing net, nylon mesh 25 × 25 mm	CS2 lower basket	-	1	**141-0782**
RC1/2 glassware fixing net, nylon mesh 25 × 25 mm	1/4 baskets CS1-1 / CS2	-	1	**141-0783**
RC1/4 glassware fixing net, nylon mesh 10 × 10 mm	1/2 baskets CS1-1 / CS2	-	1	**141-0784**
PV105 slide basket, stainless steel	105 standard microscopic slides	-	1	**141-0781**
Instrument baskets				
CSK1/3 Instrument basket with handles, stainless steel, 5×5 mm mesh	dental instruments	435×160×50	1	**141-0670**
CSK2 Instrument basket with handles, stainless steel, 5×5 mm mesh	dental instruments	450×225×50	1	**141-0671**
Consumables				
Printer paper DP24/3RTC (10 roll per pack)			1	**141-0660**
Resin disposal bag			1	**141-0785**
CL3000 resins container, 15 l, stainless steel, with connectors, without resin	WP3000 water purifier		1	**141-0661**
MI700WP mixed bed resin refill kit for CL3000 container, includes resin disposal bag	WP3000 water purifier		1	**141-0758**
Water softener salt tank, closure top, with salt level sensor			1	**141-0799**
Spare parts				
UC6 curved nozzle, stainless steel	to aim water jet at powder detergent dispenser		1	**141-0824**
UB05 flat nozzle, 2×3 mm (length: 110 mm), in stainless steel	Gerber butyrometers 0,5%		1	**141-0820**
UB4 flat nozzle, 2×3 mm (length: 110 mm), in stainless steel	Gerber butyrometers 4 %		1	**141-0822**
UB6 flat nozzle, 2×3 mm (length: 90 mm), stainless steel	Gerber butyrometers 6 %		1	**141-0823**
UB12 flat nozzle, 2×3 mm (length: 110 mm), in stainless steel	Gerber butyrometers 12 %		1	**141-0821**
U390 nozzle, length 90 mm diameter 3 mm, stainless steel			1	**141-0809**
U3110 nozzle, length 110 mm, diameter 3 mm, stainless steel			1	**141-0807**
U4140 nozzle, length 140 mm, diameter 4 mm, stainless steel			1	**141-0810**
U6150 nozzle, length 150 mm, diameter 6 mm, stainless steel			1	**141-0814**
U4160 nozzle, length 160 mm, diameter 4 mm, stainless steel			1	**141-0811**
U6170 nozzle, length 170 mm, diameter 6 mm, stainless steel			1	**141-0815**
U4180 nozzle, length 180 mm, diameter 4 mm, stainless steel			1	**141-0812**
U3215 nozzle, length 215 mm, diameter 3 mm, stainless steel			1	**141-0808**
U6220 nozzle, length 220 mm, diameter 6 mm, stainless steel			1	**141-0816**
U6240 nozzle, length 240 mm, diameter 6 mm, stainless steel			1	**141-0817**
U4260 nozzle, length 260 mm, diameter 4 mm, stainless steel			1	**141-0813**
U6260 nozzle, length 260 mm, diameter 6 mm, stainless steel			1	**141-0818**
U6370 nozzle, length 370 mm, diameter 6 mm, stainless steel			1	**141-0819**
ULB40 pipette adapter nozzle, nylon			1	**141-0825**

Reverse osmosis water purifier, WO-01
Smeg

The WO-01 is a microprocessor reverse osmosis system suitable for the Smeg GW6090 glassware washer. Suitable for the continuous and intermittent production of ISO 3696 grade III-IV demineralised water used to supply basic demineralised water to glassware washers, laboratories and other purification and analysis systems. An internal pump pressurises the purified water delivery circuit which automatically delivers 10 litres per minute at 1,2 bar. The recirculation circuit is managed by a pressure sensor which allows the system to supply the distribution network of an entire laboratory and one or more glassware washers.

- The system incorporates a stop-gap tank holding 35 litres of water for immediate supply
- The compact structure and size allow the system to be installed under worktops, thus optimising the use of space
- The recirculation system is automatically activated when a tap in the supply network is opened
- Multi-function display
- Automatic water stop with operating block and alarm on display

Model	WO-01
Feed water	Potable (tap)
Flow rate (l/h)	150 – 200
W×D×H (mm)	600× 380× 815
Weight (kg)	67

Description	Pk	Cat. No.
Reverse osmosis system WO-01 for glassware washing machine, GW6090, with external prefilter cartridge and internal activated carbon cartridge	1	**141-0836**

Ultrasonic baths, Elmasonic X-tra series

Elma

The X-tra series baths have two cleaning levels: Powerclean for intensive cleaning and Softclean for extra gentle cleaning of sensitive materials. By using new, cavitation-proof stainless steel, the baths have a very long service life which is backed up by a 3 year warranty. All models are equipped with a mechanical timer up to a maximum of 15 minutes.

- Sweep, for optimum sound distribution through electronic oscillation of the sound field
- Additional oscillating systems for high performance
- Adjustable heating from 20 to 80 °C
- High heating power for short heating times, safe for dry running
- Drain tap

Model	X-tra 30 H	X-tra 50 H	X-tra 70 H	X-tra 150 H
Capacity (l)	3	4,5	6,5	14
Frequency (kHz)	35			35
Heating power (W)	400	400		800
W×D×H (mm)	360×205×250	360×205×300	360×225×300	425×315×350
Tank dimensions W×D×H (mm)	240×130×100	240×130×150	300×150×150	300×240×200

Description	Pk	Cat. No.
X-tra 30 H	1	**142-2235**
X-tra 50 H	1	**142-2219**
X-tra 70 H	1	**142-2220**
X-tra 150 H	1	**142-2221**

Description	For	Pk	Cat. No.
Accessories			
Stainless steel wire mesh basket	X-tra 30 H	1	**142-2222**
Stainless steel wire mesh basket	X-tra 50 H	1	**142-2223**
Stainless steel wire mesh basket	X-tra 70 H	1	**142-2224**
Stainless steel wire mesh basket	X-tra 150 H	1	**142-2225**
Stainless steel lid	X-tra 30 H & X-tra 50 H	1	**142-2226**
Stainless steel lid	X-tra 70 H	1	**142-2227**
Stainless steel lid	X-tra 150 H	1	**142-2228**

Multi-frequency ultrasonic baths, Transsonic TI-H series

Elma

With two switchable frequencies

The Transsonic TI-H series comes in different sizes with 25 to 45 kHz. The ergonomic design and superior material compatibility are intended for industrial use in production, repair shops and service centres. These ultrasonic baths are equipped with timer, variable from 0 to 15 minutes.

- Two switchable frequencies for intensive and gentle cleaning
- Vibration tanks made of special stainless steel for heavy-duty use and long service life
- Degas: For fast, effective degassing of the cleaning fluid
- Sweep: For optimum sound field distribution
- Thermostatically adjustable heating (30 to 80 °C)

Model	TI-H5 MF	TI-H10 MF	TI-H15 MF	TI-H20 MF
Capacity (l)	4,7	10,8	14,4	16,8
Max. output power (W)	400	800	800	1000
W×D×H (mm)	340×300×370	400×415×370	400×415×420	430×470×420
Tank dimensions W×D×H (mm)	240×130×150	300×240×150	300×240×200	330×300×200
Frequency (kHz)	25 - 45			
Heating power (W)	400	800	1000	1400

Description	Pk	Cat. No.
TI-H5 MF	1	**142-2236**
TI-H10 MF	1	**142-2237**
TI-H15 MF	1	**142-2238**
TI-H20 MF	1	**142-2239**

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Description	For unit	Pk	Cat. No.
Accessories			
Sound-proof box	TI-H series	1	**142-2248**
Baskets	TI-H5	1	**142-2249**
Baskets	TI-H10	1	**142-2250**
Baskets	TI-H15	1	**142-2251**
Baskets	TI-H20	1	**142-2252**
Lids	TI-H5	1	**142-2253**
Lids	TI-H15 & TI-H10	1	**142-2254**
Lids	TI-H20	1	**142-2255**

Other models are available, please contact us for further information.

Ultrasonic baths, Elmasonic S series
Elma

Ultrasonic units

Sieve cleaning module

These ultrasonic units feature the newly developed switchable sweep function. This function guarantees homogeneous sound field distribution by way of continuous shifting of the sound pressure maxima. The Degas function on these units facilitates fast and effective degassing of the cleaning liquid, particularly in freshly mixed baths. Both the Autodegas function used before the start of cleaning and Degas for special tasks can be activated manually. The units feature a noise-reducing plastic cover (that speeds up the heating process and serves as a drip-off basin once turned over), an integrated fill level indicator, cavitation-proof stainless steel cleaning tanks and a knob on the side for easy emptying of the cleaning fluid via the drain duct at the back of the unit.

These ultrasound units are particularly suitable for cleaning laboratory instruments, glass, plastic and metal surgical and medical instruments, jewellery, spectacles and electronic components.

- The control panel is clear and user friendly, and is designed in such a way that no liquid can penetrate the device's electronics
- The cleaning process can be activated immediately (either manually or temperature-controlled) and can be supported by the optional dry run-proof heating
- The temperature can be set from 30 °C to 80 °C in increments of 5 °C; the actual and set temperatures are displayed via an LED (not S 10/H)
- The LED displays the set cleaning period and the remaining cleaning time
- Automatic safety switch-off after 12 hours

Model	Capacity (l)	Frequency (kHz)	Heating power (W)	Drain diameter (inches)	Mesh basket size ØxH (mm)	Basket load (kg)	W×D×H (mm)	Tank dimensions W×D×H (mm)	Weight (kg)
Small models									
S 10	0,8	37	0...60	N/A	7×1	1	206×116×178	190×85×60	2,0
S 15	1,75						175×180×212	151×137×100	2,1
S 30			0...200	3/8			300×179×214	240×137×100	3,3
S 40	4,25					3	300×179×264	240×137×150	4,0
S 60	5,75		0...400		9×1	5	300×186×214	300×151×150	5,1
S 70	6,9		0...600				568×179×214	505×137×100	5,6
S 80	9,4						568×179×264	505×137×150	6,4
Big models									
S 100	9,5	37	0...400	3/8	9×1	6	365×278×264	300×240×150	5,9
S 120	12,75		0...800			7	365×278×321	300×240×200	7,5
S 150	14					10	568×340×224	505×300×100	10
S 180	18		800			8	390×340×321	327×300×200	8,5
S 300	28		0...1200			<10	568×340×321	505×300×200	11,0
S 450	45		1600	1/2		20	615×370×467	500×300×300	25
S 900	90		2000		16×1,2	30	715×570×467	600×500×300	42

Description	Pk	Cat. No.
Small models		
S 10 without heating	1	**142-0036**
S 10/H with heating	1	**142-0015**
S 15 without heating	1	**142-0032**
S 15/H with heating	1	**142-0017**
S 30 without heating	1	**142-2256**
S 30/H with heating	1	**142-0008**
S 40 without heating	1	**142-0033**
S 40/H with heating	1	**142-0016**
S 60 without heating	1	**142-2257**
S 60/H with heating	1	**142-2258**
S 70 without heating	1	**142-2259**

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Description	Pk	Cat. No.
Small models		
S 70/H with heating	1	**142-0009**
S 80 without heating	1	**142-0034**
S 80/H with heating	1	**142-0018**
Big models		
S 100 without heating	1	**142-0003**
S 100/H with heating	1	**142-2260**
S 120 without heating	1	**142-2261**
S 120/H with heating	1	**142-2262**
S 150 without heating	1	**142-0043**
S 180/H with heating	1	**142-0019**
S 300 without heating	1	**142-0035**
S 300/H with heating	1	**142-0020**
S 450/H with heating	1	**142-0005**
S 900/H with heating	1	**142-0011**

Description	For	Pk	Cat. No.
Sieve cleaning module, SRH 4/200			
Sieve cleaning module SRH 4/200, stainless steel; 230 V, 50/60 Hz		1	**142-0061**
Baskets			
Stainless steel immersion basket with handles, plastic coated	S 30, S 30/H, P 30 H	1	**142-0026**
Stainless steel immersion basket with handles, plastic coated	S 40 and S 40/H	1	**142-0027**
Stainless steel immersion basket with handles, plastic coated	S 60, S 60/H, P 60 H	1	**142-0028**
Stainless steel immersion basket with handles, plastic coated	S 70, S 70/H, P 70 H	1	**142-0013**
Stainless steel immersion basket with handles, plastic coated	S 80 and S 80/H	1	**142-0029**
Stainless steel immersion basket with handles, plastic coated	S100 and S 100/H	1	**142-0012**
Stainless steel immersion basket with handles, plastic coated	S 120, S 120/H, P 120 H	1	**142-0031**
Stainless steel immersion basket with handles, plastic coated	S 150	1	**142-0044**
Stainless steel immersion basket with handles, plastic coated	S 180/H, P 180 H	1	**142-0006**
Stainless steel immersion basket with handles, plastic coated	S 300, S 300/H, P 300 H	1	**142-0030**
Stainless steel immersion basket with handles, plastic coated	S 450/H	1	**142-0037**
Stainless steel immersion basket with handles, plastic coated	S 900/H	1	**142-0038**
Covers			
Stainless steel insert cover for 2 beakers	S 10/H	1	**142-2126**
Plastic cover, blue	S 15/H	1	**142-0021**
Plastic cover, blue	S 30/H, S 40/H, P 30 H	1	**142-0022**
Stainless steel insert cover for 2 beakers	S 30/H, S 40/H	1	**142-2128**
Plastic cover, blue	S 60/H, P 60 H	1	**142-0023**
Plastic cover, clear	S 60/H	1	**142-2122**
Stainless steel insert cover for 2 beakers	S 60/H	1	**142-0042**
Plastic cover, blue	S 70/H, S 80/H, P 70 H	1	**142-0010**
Plastic cover, blue	S 100/H, S 120/H, P 120 H	1	**142-0024**
Plastic cover, clear	S 100/H, S 120/H	1	**142-2123**
Plastic cover, blue	S 180/H, P 180 H	1	**142-0004**
Plastic cover, clear	S 180/H	1	**142-2124**
Plastic cover, blue	S 300/H, P 300 H	1	**142-0025**
Plastic cover, clear	S 300/H	1	**142-2125**
Stainless steel cover	S 450/H	1	**142-0039**
Stainless steel cover	S 900/H	1	**142-0040**

Utrasonic bath, S 50 R
Elma

Elmasonic S 50 R "Lab Technology" – for the cleaning of analysing sieves, the degassing of HPLC solvents and the processing of samples. Microprocessor controlled ultrasonic modes and special predefined programs assist every standard laboratory and cleaning application.
The special "sieve cleaning" program uses two ultrasonic modes alternatingly which creates powerful cleaning pulses and leads to perfect cleaning results.

HPLC solvents are degassed in Erlenmeyer flasks or in 1 litre solvent bottles. The rear side of the Elmasonic S 50 R is fitted with a rack for a laboratory holder. The flask or bottle fixed to the holder is immersed into the tank filled with water and some surface-active agent. The special Degas mode degasses the liquid reliably within approx. 30 minutes. The gas is "collected" to form large bubbles which are taken to the surface and then out of the liquid in short operating breaks. The Degas mode can also be used for the degassing of samples in the food sector, e.g. for the removal of carbon dioxide.

Another feature is the ultrasonic mode "sample prep." for standard applications such as mixing, dissolving, cleaning, etc.

- Automatic programs with specially defined ultrasonic modes
- Special efficient and noise-reduced Degas mode (gas liftout effect)
- High-performance 37 kHz transducer
- Ultrasonic tank made of cavitation-resistant stainless steel
- User-friendly clearly arranged operating panel and turning knob for setting continued and short-period operation from 1 to 30 min
- LED display for both pre-set and actual temperature, and for the remaining operating time
- Plastic carrying handles

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Model	Elmasonic S 50 R
Capacity (l)	5,3
Frequency (kHz)	37
Power consumption (W)	150
Mesh basket size ØxH (mm)	220×70
External Ø×H (mm)	260×350
Tank dimensions Ø×H (mm)	240×130 mm
Weight (kg)	5

Description	Pk	Cat. No.
Elmasonic S 50 R	1	**142-0059**

Description	Pk	Cat. No.
Accessories		
Basket for S 50 R	1	**142-0055**
Plastic lid for S 50 R	1	**142-0053**
Plastic lid for beakers for S 50 R	1	**142-0052**
Sieve holder	1	**142-0054**
Laboratory glassware holder for S 50 R	1	**142-0056**

Ultrasonic baths, Elmasonic P series

Elma

The new Elmasonic P ultrasonic series is ideal for all applications in analytical and medical laboratories and in industrial production. Six different sizes are available. These practical units are easy to operate with a clearly arranged display showing all set and actual parameters. Several special features make the units perfect for intensive cleaning applications. All models are equipped with a mechanical timer up to maximum of 15 minutes.

Multi-frequency at 37 kHz; standard applications are carried out at 37 kHz. All units are considerably more powerful than conventional ultrasonic units. If the high energy density should prove too stong for individual cleaning jobs, it can be reduced electronically.

Multi-frequency at 80 kHz; operating the unit at 80 kHz prolongs the cleaning time and is ideal for the treatment of very small and sensitive items. Even tiny capillaries are reached by the imploding microscopic cavitation bubbles. A positive side effect is the comfortably low noise at this frequency.

Special ultrasonic features

Standard; for applications in the laboratory such as mixing, dissolving, dispersing

Pulse; activatable "Power" addition of ~20% through increased peak performance

Sweep; for an even distribution of the ultrasonic power in the cleaning bath

Degas; for quick degassing of samples or solvents

Power regulation; stepwise reduction of the ultrasonic power for the cleaning of sensitive surfaces

Two additional features are available:

Pause; interrupt and restart the current application

Temperature control; automatic start-up of the ultrasound when the set temperature is reached

- Clear display
- Easy and intuitive setting
- Power controlled ultrasound with high energy density for difficult applications (low frequency) or gentle and quiet for the cleaning of capillaries and small items (high frequency)
- The temperature can be set from 30 °C to 80 °C in increments of 5 °C

Model	P 30 H	P 60 H	P 70 H	P 120 H	P 180 H	P 300 H
Capacity (l)	2,75	5,75	6,9	12,75	18,0	28,0
Frequency (kHz)	37/80					
Heating power (W)	200	400	600	800		1200
Power consumption (W)	320/300	580/550	820	1130		1580
W×D×H (mm)	300×221×179	365×271×186	568×221×179	365×321×278	390×321×340	568×321×340
Tank dimensions W×D×H (mm)	240×100×137	300×150×151	505×100×137	300×200×240	327×200×300	505×200×300

Description	Pk	Cat. No.
Ultrasonic bath P 30 H	1	**142-0051**
Ultrasonic bath P 60 H	1	**142-0047**
Ultrasonic bath P 70 H	1	**142-0046**
Ultrasonic bath P 120 H	1	**142-0048**
Ultrasonic bath P 180 H	1	**142-0049**
Ultrasonic bath P 300 H	1	**142-0050**

Description	For	Pk	Cat. No.
Baskets			
Stainless steel immersion basket with handles, plastic coated	S 30, S 30/H, P 30 H	1	**142-0026**
Stainless steel immersion basket with handles, plastic coated	S 60, S 60/H, P 60 H	1	**142-0028**
Stainless steel immersion basket with handles, plastic coated	S 70, S 70/H, P 70 H	1	**142-0013**

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Description	For	Pk	Cat. No.
Baskets			
Stainless steel immersion basket with handles, plastic coated	S 120, S 120/H, P 120 H	1	**142-0031**
Stainless steel immersion basket with handles, plastic coated	S 180/H, P 180 H	1	**142-0006**
Stainless steel immersion basket with handles, plastic coated	S 300, S 300/H, P 300 H	1	**142-0030**
Covers			
Plastic cover, blue	S 30/H, S 40/H, P 30 H	1	**142-0022**
Plastic cover, blue	S 60/H, P 60 H	1	**142-0023**
Plastic cover, blue	S 70/H, S 80/H, P 70 H	1	**142-0010**
Plastic cover, blue	S 100/H, S 120/H, P 120 H	1	**142-0024**
Plastic cover, blue	S 180/H, P 180 H	1	**142-0004**
Plastic cover, blue	S 300/H, P 300 H	1	**142-0025**

Ultrasonic baths, Bransonic™ B200

Branson

The B200 ultrasonic bath can clean smaller objects such as geological samples, electrical/electronic components and many small instruments. Suitable for cleaning contact lenses, spectacles and other optical articles. Effective for removing surface contamination such as fingerprints and dust.

- A versatile bath that can be used anywhere
- Compact design
- Stainless steel container with 0,5 l capacity contained within a tough plastic housing
- With built-in 5 minute timer that switches the bath off automatically

Delivery information: Lid and parts basket are included in the standard package.

Model	Bransonic™ B200
Capacity (l)	0,5
Max. output power (W)	40
W×D×H (mm)	225×115×122
Tank dimensions W×D×H (mm)	165×90×55
Weight (kg)	1,5

Description	Pk	Cat. No.
Ultrasonic cleaner, Bransonic™ B200	1	**142-2595**

Description	Pk	Cat. No.
Accessories		
Cover for beaker, 2×250 ml, stainless steel	1	**142-3802**
Spare lid, plastic	1	**142-2598**
Spare tray, stainless steel	1	**142-3803**

Detergent solutions for ultrasonic baths

Branson

GP II general purpose cleaner

Biodegradable, phosphate-free, non-irritant, alkaline cleaning agent.

- Removes general dirt, fingerprints, dust, packaging particles, light oils and greases from components in general production areas, machine shops, telecommunication applications and other light industrial production and manufacturing facilities

JC jewellery cleaner

Biodegradable, phosphate-free, alkaline cleaning agent for cleaning jewellery and precious metals.

- Removes general dirt, particles, fingerprints, oils and oxides that accumulate during normal use. Quickly restores precious stones and metals to their original lustre

OR oxide remover

Phosphate-free, biodegradable mixture of cleaning agents and acidic chemicals. Quickly removes rust and oxides from all metals.

- Used for cleaning and restoring materials and components on which oxides have formed as a result of storage and installation operations

IS industrial cleaner

Biodegradable, phosphate-free, non-irritating alkaline cleaning agent for high-performance industrial applications.

Description	Pk	Cat. No.
GP II general purpose cleaner	1 l	**142-2619**
JC jewellery cleaner	1 l	**142-3006**
IS industrial cleaner	1 l	**142-3007**
OR oxide remover	1 l	**142-3008**

Ultrasound cleaning baths, USC

Cleaning via ultrasound has been one of the most effective methods of freeing parts with complex geometry, such as fins, undercuts, boreholes, pocket holes, etc. from residues (contaminants).

The physical property of imploding vacuum bubbles causes tiny air bubbles to form in the cleaning fluid, which generate up to 1000 bar and 5000 °C when the forces implode and penetrate all small cavities. Combined with a cleaning agent geared to the type of contamination and the material to be cleaned, it is possible, through the cavitation forming on the part to be cleaned without any additional manual workload, to remove residues like oil carbon, incrustations, grease, oils, oxidation, paints, dust, rust, limescale, etc. quickly in a way that protects the material and does not leave behind any residual matter.

- High performance PZT ultrasonic converter with ceramics technology
- Homogeneous distribution of ultrasound in the cleaning trough
- Lower noise development through higher frequency
- Robust heating with integrated run-dry protection
- Thermostat adjustable up to 80 °C
- Stainless steel tank material and cladding

Ultrasonic bath USC T

This range has a digital timer 1 – 99 minutes in steps of 1 minute

Ultrasonic bath USC TH

With a digital timer and a tank heater, infinitely variable up to 80 °C, to assist the cleaning effect. To monitor the heater, a yellow LED display illuminates, extinguishing when the set temperature is reached.

Ultrasonic bath USC THD and THD/HF (high frequency)

This machine has a digital operating keypad to ensure convenient setting and operation. The special features of the D range are:

- Digital time setting of 1- 99 min or continuous
- Digital temperature display adjustable up to 80 °C
- The heater is equipped with dry run protection
- Ultrasound output adjustable over nine levels from 10 - 100%
- Stabilisation of the set output, independently of level and temperature
- Dual half-wave sound with sweep
- Degassing function to homogenise the tank fluid.

Model	Capacity (l)	Frequency (kHz)	Heating power (W)	W×D×H (mm)	Tank dimensions W×D×H (mm)	Weight (kg)
USC T range						
USC 300 T	2,8	45	200	265×160×235	240×135×100	4,1
USC 500 T	4,2			265×160×295	240×135×150	4,9
USC 600 T	5,4		400	325×175×295	300×150×150	5,4
USC 900 T	9,2		600	325×265×335	300×240×200	8,2
USC 1200 T	12,3			515×150×270	500×135×150	8,5
USC 1700 T	16,8		800	352×325×335	327×300×200	9,7
USC 2100 T	19,6			530×325×365	500×300×150	12,7
USC 2600 T	26,1		1000		500×300×200	12,9
USC TH range						
USC 300 TH	2,8	45	200	265×160×235	240×135×100	4,1
USC 500 TH	4,2			265×160×295	240×135×150	4,9
USC 600 TH	5,4		400	325×175×295	300×150×150	5,4
USC 900 TH	9,2		600	325×265×335	300×240×200	8,2
USC 1200 TH	12,3			515×150×270	500×135×150	8,5
	16,8		800	352×325×335	327×300×200	9,7
USC 2100 TH	19,6			530×325×365	505×300×150	12,7
USC 2600 TH	26,1		1000		500×300×200	12,9
USC THD and THD/HF range						
USC 300 THD	2,8	45	200	265×160×235	240×135×100	4,1
USC 300 THD/HF		132				
USC 500 THD	4,2	45		265×160×295	240×135×150	4,9
USC 600 THD	5,4		400	325×175×295	300×150×150	5,4
USC 600 THD/HF		132				
USC 900 THD	9,2	45	600	325×265×335	300×240×200	8,2
USC 1200 THD	12,3			515×150×270	500×135×150	8,5
USC 1200 THD/HF		132				
USC 1700 THD	16,8	45	800	352×325×335	327×300×200	9,7
USC 2100 THD	19,6			530×325×365	505×300×150	12,7
USC 2100 THD/HF		132				
USC 2600 THD	26,1	45	1000		500×300×200	12,9

Description	Pk	Cat. No.
USC T range		
Table top cleaning unit with digital control, display and digital timer, USC 300 T	1	**142-0083**
Table top cleaning unit with digital control, display and digital timer, USC 500 T	1	**142-0087**
Table top cleaning unit with digital control, display and digital timer, USC 600 T	1	**142-0090**

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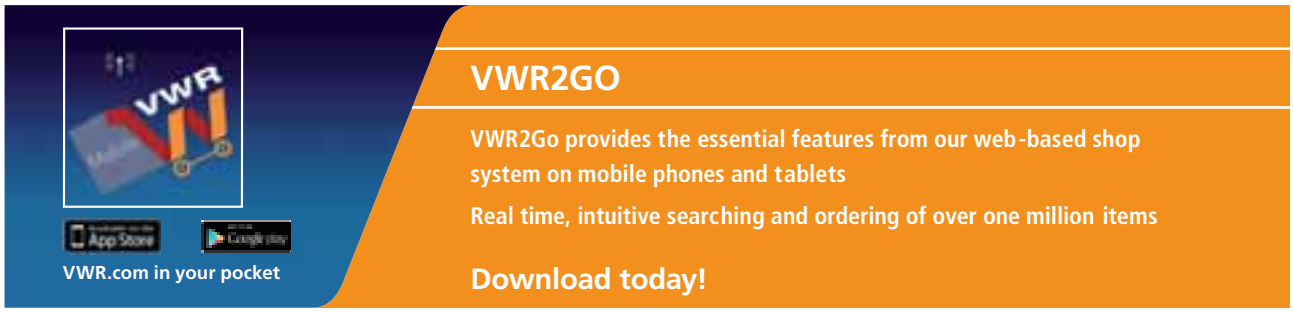
Description	Pk	Cat. No.
USC T range		
Table top cleaning unit with digital control, display and digital timer, USC 900 T	1	**142-0098**
Table top cleaning unit with digital control, display and digital timer, USC 1200 T	1	**142-0094**
Table top cleaning unit with digital control, display and digital timer, USC 1700 T	1	**142-0101**
Table top cleaning unit with digital control, display and digital timer, USC 2100 T	1	**142-0104**
Table top cleaning unit with digital control, display and digital timer, USC 2600 T	1	**142-0108**
USC TH range		
Table top cleaning unit with digital control, display, digital timer and integrated heater, USC 300 TH	1	**142-0084**
Table top cleaning unit with digital control, display, digital timer and integrated heater, USC 500 TH	1	**142-0088**
Table top cleaning unit with digital control, display, digital timer and integrated heater, USC 600 TH	1	**142-0091**
Table top cleaning unit with digital control, display, digital timer and integrated heater, USC 900 TH	1	**142-0099**
Table top cleaning unit with digital control, display, digital timer and integrated heater, USC 1200 TH	1	**142-0095**
Table top cleaning unit with digital control, display, digital timer and integrated heater, USC 1200 TH	1	**142-0102**
Table top cleaning unit with digital control, display, digital timer and integrated heater, USC 2100 TH	1	**142-0105**
Table top cleaning unit with digital control, display, digital timer and integrated heater, USC 2600 TH	1	**142-0109**
USC THD and THD/HF range		
Table top cleaning unit with digital control, display, digital timer, integrated heater and degas-function, USC 300 THD (45 Hz)	1	**142-0085**
Table top cleaning unit with digital control, display, digital timer, integrated heater and degas-function, USC 300 THD/HF (132 Hz)	1	**142-0086**
Table top cleaning unit with digital control, display, digital timer, integrated heater and degas-function, USC 500 THD (45 Hz)	1	**142-0089**
Table top cleaning unit with digital control, display, digital timer, integrated heater and degas-function, USC 600 THD (45 Hz)	1	**142-0092**
Table top cleaning unit with digital control, display, digital timer, integrated heater and degas-function, USC 600 THD/HF (132 Hz)	1	**142-0093**
Table top cleaning unit with digital control, display, digital timer, integrated heater and degas-function, USC 900 THD	1	**142-0100**
Table top cleaning unit with digital control, display, digital timer, integrated heater and degas-function, USC 1200 THD (45 Hz)	1	**142-0096**
Table top cleaning unit with digital control, display, digital timer, integrated heater and degas-function, USC 1200 THD/HF (132 Hz)	1	**142-0097**
Table top cleaning unit with digital control, display, digital timer, integrated heater and degas-function, USC 1700 THD (45 Hz)	1	**142-0103**
Table top cleaning unit with digital control, display, digital timer, integrated heater and degas-function, USC 2100 THD (45 Hz)	1	**142-0106**
Table top cleaning unit with digital control, display, digital timer, integrated heater and degas-function, USC 2100 THD/HF (132 Hz)	1	**142-0107**
Table top cleaning unit with digital control, display, digital timer, integrated heater and degas-function, USC 2600 THD (45 Hz)	1	**142-0110**



Water still, Merit® W4000
Stuart

The Merit® W4000 water still produces up to 4 litres per hour of distilled water. It incorporates a Pyrex® glass boiler and high efficiency condenser which provides exceptionally high quality pyrogen-free distillate (although distillate should be tested). Screw threads are incorporated on all water connections so hoses can be fitted and removed easily and safely without risk of breakage. The metal heater is fitted with a thermal cut-out to protect the still in the event of water failure. A built-in funnel and stopcock allow the still to be cleaned easily without hazardous dismantling.

- Distillate cooled by high efficiency coil condenser
- Two independent safety thermostats
- Easy to clean without dismantling
- Can be wall or bench mounted

pH, conductivity and resistivity are affected by temperature and the presence of absorbed carbon dioxide. Specifications are based on tests conducted at 20 °C with CO_2-free water.

Care is needed to obtain pyrogen-free water and the distillate must be tested before use.

Water still heating elements are excluded from the 3 year warranty and are covered for 1000 hours use.

Conductivity (µS/cm)	3,0 - 4,0
Distillation	Single
Output (l/h)	4
pH	5,0 - 6,5
Rating (kW)	3
Supply pressure (bar)	0,3 - 7,0
Temperature (°C)	25...35
Water supply (l/min)	1
Weight (kg)	11
W×D×H (mm)	500×150×450

Description	Pk	Cat. No.
Merit® water still, W4000	1	**171-1201**

Water stills, Aquatron®
Stuart

Aquatron® units have fully automatic operation direct from a potable water supply - alternatively, an optional water feed conversion kit enables connection to any pre-treated water source. The distillate storage level control switch fits any collection reservoir. A Pyrex® double coil condenser and boiler system combined with a VYCOR® silica glass sheathed heating element provides exceptionally high quality pyrogen-free distillate (although distillate should be tested). These stills can also be used with the filter and deionisation units for which the water feed conversion kit (Cat. No. 171-1210) is required.

- Fully automatic operation
- May be connected to a potable or pre-treated (conversion kit required) water supply
- Operates with low quality or low pressure water source
- Automatic cut-out for water supply failure
- BioCote® antimicrobial protection

pH, conductivity and resistivity are affected by temperature and the presence of absorbed carbon dioxide. Specifications are based on tests conducted at 20 °C with CO_2-free water.

Care is needed to obtain pyrogen-free water and the distillate must be tested before use.

Water still heating elements are excluded from our 3 year warranty and are covered for 1000 hours use.

Delivery information: Supplied with wall mounting bracket (except A4000D).

Model	A4000D	A4000	A8000
Conductivity (µS/cm)	1,0 - 1,5	1,0 - 2,0	
Distillation	Double	Single	
Mounting	Bench	Bench/wall	
Output (l/h)	4 (bi-distilled)	4	8
pH	5,0 - 6,5		
Rating (kW)	6	3	6
Supply pressure (bar)	0,3 - 7,0		
Temperature (°C)	25...35		
Water supply (l/min)	2	1	2
Weight (kg)	30	20	23
W×D×H (mm)	550×240×410		

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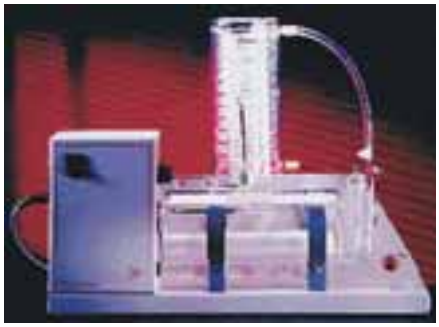
Description	Pk	Cat. No.
A4000D Aquatron® water still, double distillation	1	**171-1204**
A4000 Aquatron® water still	1	**171-1202**
A8000 Aquatron® water still	1	**171-1203**

Description	Pk	Cat. No.
Accessories		
Spare heater, 3 kW, silica glass sheathed element	1	**171-1208**
Spare condenser for all models	1	**171-1209**
Water feed conversion kit, for converting stills to feed from deionisers and pre-treated supplies	1	**171-1210**
Reservoir, Pyrex®, with Rotaflo® stopcock, lid feed pipe and bacteriological filter, capacity 20 l	1	**171-1217**
Reservoir stand, for 171-1217, 430 mm high	1	**171-1218**

Water still, Distinction D4000
Stuart



The all glass construction and silica sheathed heating element ensure exceptionally high quality pyrogen-free distillate (although distillate should be tested). Fitted with two independent thermostats to prevent overheating in the event of cooling water supply failure; one is mounted in the condenser vent tube to quickly detect water supply failure and the second is mounted inside the boiler. Either will turn off the heater if the water supply becomes too low. The second thermostat also acts as a backup to the first for extra security. As there is no metal in contact with the water, the Distinction D4000 eliminates the risk of metal ions leeching out into the water causing contamination to the distillate. The unit is also fitted with a level control device that will automatically turn off the heater when the reservoir is full. This allows the still to run unattended without risk of the reservoir overflowing.

- Rapid, reliable, convenient and economical
- Support stand allows either bench or wall installation
- Built-in PTFE drain stopcock and acid funnel allow easy cleaning without dismantling the glassware
- Unique condenser design ensures that the droplets remain in contact with the cooling coil thereby producing cold distilled water

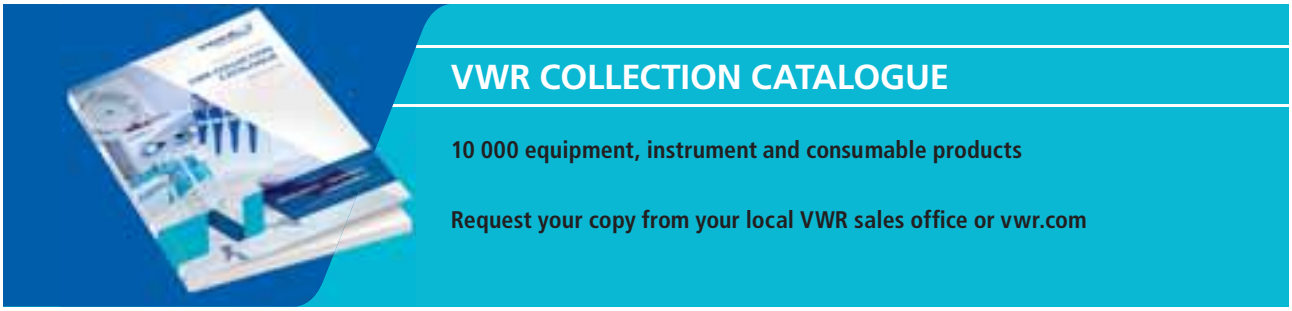
pH, conductivity and resistivity are affected by temperature and the presence of absorbed carbon dioxide. Specifications are based on tests conducted at 20 °C with CO_2-free water.

Care is needed to obtain pyrogen-free water and the distillate must be tested before use.

Water still heating elements are excluded from the 3 year warranty and are covered for 1000 hours use.

Conductivity (µS/cm)	1 - 2
Distillation	single
Output (l/h)	4
pH	5,0 - 6,5
Rating (kW)	3
Supply pressure (bar)	0,3 - 7
Temperature (°C)	25...35
Water supply (l/min)	1
Weight (kg)	11
W×D×H (mm)	540×160×410

Description	Pk	Cat. No.
D4000 Distinction water still	1	**171-1205**



Water purification systems, Direct-Q® 3

For the production of Type I and Type III water

Direct-Q® 3 systems have been developed for simple, immediate use. Ultrapure Type I water is suitable for preparing buffers for liquid chromatography and biochemical experiments, and for analytical procedures such as spectrophotometry and spectroscopy. For applications that require very low values of organic impurities, the Direct-Q® 3 UV system includes a UV lamp with two wavelengths in order to produce water with a TOC content <5 ppb, which is suitable for HPLC, GC, ILC and TOC analyses. With the BioPak™ cartridge as a final filter, Direct-Q® 3 systems produce pyrogen- and RNase-free water at a flow rate of 0,2 l/min. Direct-Q® 3 systems are ideal for laboratories which do not have easy access to pre-treated water and require between 5 and 10 litres of ultrapure water per day.

The systems' versatile remote dispenser helps the user to stay focused on his work by providing ultrapure water delivery where needeed. The remote dispenser can be placed up to two metres from the Direct-Q® system and are available in free-standing or wall-installed models. Alternatively, systems in the Direct-Q® range are available with an integrated dispenser for use on the benchtop.

- An integral timer makes it possible to dispense Type I water for a specified time period; the system switches off automatically when the set time has elapsed
- An alarm is triggered when there is a sudden drop in the quality of the product water
- Water quality parameters (resistivity or conductivity, temperature) are shown on a colour display
- Maintenance consists of a simple pack replacement once or twice a year
- Integrated, compact 6 litre reservoir for Type II water – connection to a 30 or 60 l reservoir is possible for higher daily needs
- Units can be bench or wall mounted (wall mount bracket required)

Pure (Type III) product water quality (in regular operating conditions):

Ionic rejection >96%
Organic rejection for MW>200>99%
Bacteria and particulates removal >99%

Ordering information: A tank vent filter, a SmartPak™ DQ3 filter and either a Millipak® or BioPak® final filter have to be ordered with the unit.

Model	Direct-Q® 3
Feed water	Potable (tap)
Flow rate (l/min)	0,5
Flow rate - Type III purified water	3 l/h at 15 °C (typical value)
TOC content	<10 ppb without UV lamp < 5 ppb with UV lamp
Resistivity - Type I product water	18,2 MΩ/cm at 25 °C
Bacteria	<0,1 cfu/ml met BioPak®*
Particle content Type I product water	<1 particle/ml with Millipak® Express final filter
Endotoxins	<0,001 EU/ml with BioPak®*
Pyrogen	<0,001 EU/ml with BioPak®
RNases	<0,01 ng/ml with BioPak®*
DNases	<4 pg/µl with BioPak®*
W×D×H (mm)	290×380×540
Weight (kg)	Unit without UV lamp: 8,1 Unit with UV lamp: 8,6 Remote dispenser: 2,15

Description	Pk	Cat. No.
Water purification unit		
Direct-Q® 3 system (UK-plug, manual in English)	1	**171-0154**
Direct-Q® 3 UV system (UK-plug, manual in English)	1	**171-0754**
Water purification unit with integrated remote dispenser		
Direct-Q® 3-R system (UK-plug, manual in English), with integrated remote dispenser	1	**171-0785**
Direct-Q® 3 UV-R system (UK-plug, manual in English), with integrated remote dispenser	1	**171-0817**

Description	Pk	Cat. No.
Cartridges		
Purification pack SmartPak™ DQ3	1	**171-0128**
Accessories		
BioPak® final filter for pyrogen and nuclease removal; ultrafiltration used to provide pyrogen-free and nuclease-free water for critical cell culture or molecular experiments	1	**172-5157**
Millipak® Express 40 filter unit, 0,22 µm membrane, non sterile, for particulate and bacteria removal	1	**172-0009**
Sanitisation kit	1	**171-0608**
UV lamp for Direct Q® 3 UV and Synergy™	1	**171-0553**
Vent filter for 30/60/100 l PE reservoirs	1	**172-5097**
Vent filter for internal tank	2	**171-0550**
30 l PE pure water storage reservoir	1	**171-0053**
Tank connection kit	1	**171-0758**
Wall mounting bracket with tap, for Direct Q® and RiOs™	1	**171-0759**
Pressure regulator	1	**172-5107**

* Type I purified water

Water purification systems, Direct-Q® 5 UV, Direct-Q® 8 UV

For the production of Type I and Type III water

The Direct-Q® range of systems provides the user with a convenient and flexible solution for pure and ultrapure water requirements, directly from potable tap water. The user will have access to ultrapure water for critical applications, and pure water for less critical applications such as general glassware washing or final rinsing — from the same system.

The high quality ultrapure water produced by Direct-Q® systems is suitable for applications such as production of mobile phase for chromatographic separations; preparation of blanks and standard solutions for spectrophotometry, spectroscopy or other analytical techniques; and preparation of buffers for biochemical experiments.

Direct-Q® systems include with a built-in 185/254 nm UV lamp to reduce the level of organics for critical applications. Water with low TOC provides important benefits to HPLC users such as higher sensitivity and longer column lifetime. The same UV lamp also destroys bacteria.

Designed to fit perfectly into the lab environment, the versatile remote dispenser can be placed up to two metres from Direct-Q® water purification unit. The units can be bench or wall mounted (wall mount bracket required). Alternatively, Direct-Q® systems are also available with an integrated dispenser for use on the bench top. The design of the bench-installed Direct-Q® systems is also adapted to the height and shape of common laboratory glassware.

- An integral timer makes it possible to dispense Type I water for a specified time period; the system switches off automatically when the set time has elapsed
- An alarm is triggered when there is a sudden drop in the quality of the product water
- Water quality parameters (resistivity or conductivity, temperature) are shown on a colour display
- Maintenance consists of a simple pack replacement once or twice a year

Pure (Type III) product water quality values (in regular operating conditions):

Ionic rejection >96%
Organic rejection for MW > 200 >99%
Bacteria and particulates rejection >99%

Ordering information: Delivered with main Direct-Q® system. Please order Millipak® Express or a BioPak® final filter, tank vent filter and SmartPak™ DQ3 (for Direct-Q® 5 UV) or DQ8 (for Direct-Q® 8 UV) cartridge separately.

Model	Direct-Q® 5 UV	Direct-Q® 8 UV	Direct-Q® 5 UV	Direct-Q® 8 UV
Feed water	Potable (tap)			
Flow rate (l/min)	0,05	0,08	0,05	0,08
Flow rate - Type III purified water	5 l/h at 15 °C (typical value)			
TOC content	< 5 ppb (Type I water)			
Resistivity - Type I product water	18,2 MΩ.cm at 25 °C			
Bacteria	<0,1 cfu/ml (Type I)			
Particle content Type I product water	<1 particle/ml with Millipak® Express final filter			
Endotoxins	<0,001 EU/ml (for Type I water)			
Pyrogen	<0,001 EU/ml with BioPak™ (Type I water)			
RNases	<0,01 ng/ml with BioPak™ (Type I water)			
DNases	<4 pg/µl with BioPak™ (Type I water)			
W×D×H (mm)	290×380×540			
Weight (kg)	8,6 Remote dispenser 2,15			

Description	Pk	Cat. No.
Water purification unit		
Direct-Q® 5 UV system (UK-plug, manual in English)	1	**171-0795**
Direct-Q® 8 UV system (UK-plug, manual in English)	1	**171-0808**
Water purification unit with integrated remote dispenser		
Direct-Q® 5 UV system (UK-plug, manual in English), with integrated remote dispenser	1	**171-0826**
Direct-Q® 8 UV system (UK-plug, manual in English), with integrated remote dispenser	1	**171-0835**

Description	Pk	Cat. No.
Cartridges		
Purification pack SmartPak™ DQ8	1	**171-0888**
Purification pack SmartPak™ DQ3	1	**171-0889**
Accessories		
BioPak® final filter for pyrogen and nuclease removal; ultrafiltration used to provide pyrogen-free and nuclease-free water for critical cell culture or molecular experiments	1	**172-5157**
Millipak® Express 40 filter unit, 0,22 µm membrane, non sterile, for particulate and bacteria removal	1	**172-0009**
Sanitisation kit	1	**171-0608**
Vent filter for 30/60/100 l PE reservoirs	1	**172-5097**
Vent filter for internal tank	2	**171-0550**
30 l PE pure water storage reservoir	1	**171-0053**
Tank connection kit	1	**171-0758**
Wall mounting bracket with tap, for Direct Q® and RiOs™	1	**171-0759**
Pressure regulator	1	**172-5107**

Particulates, bacteria, endotoxins (pyrogens), RNases, DNases levels quoted are with Millipak® Express or with BioPak® as final polisher.

Water purification system, RiOs™ 3

Up to 30 l/day of high quality analytical grade water (Type III water) from tap water

Suitable for general, non-critical laboratory applications or as a pretreatment for ultrapure water systems, the RiOs™ 3 system provides an ideal solution for Type III laboratory grade water needs such as manual cleaning and rinsing, buffer preparation, feed water for humidifiers, autoclaves and glassware washers. Designed for users seeking a compact, easy to use solution, the RiOs™ 3 system will be highly appreciated for its intuitive operation, small footprint and ease of maintenance. For users needing access to ultrapure water, the RiOs™ 3 system is ideal as pretreatment for Synergy® or Milli-Q® water purification systems.

- Easy to install and to use
- Unique all-in-one pack that includes the pretreatment and reverse osmosis membrane
- Maintenance is reduced to the change of a single cartridge once or twice per year
- Backlit colour display shows conductivity, temperature and water level in the integrated reservoir
- Integrated, compact 6 litre reservoir – connection to a 30 or 60 l reservoir is possible for higher daily needs

Ordering information: The purification pack SmartPak™ (171-0126) has to be ordered with the system.

Model	RiOs™ 3
Flow rate (l/h)	3 at 15 °C
Microorganisms	99% (organics, particulates), 96% (ionic content) rejected typically
W×D×H (mm)	290×330×500
Weight (kg)	7,0

Description	Pk	Cat. No.
RiOs™ 3 (UK plug, manual in English)	1	**171-0142**

Description	Pk	Cat. No.
Cartridges		
SmartPak™ purification pack for RiOs™ systems	1	**171-0126**

Description	Pk	Cat. No.
Accessories		
Vent filter for 30/60/100 l PE reservoirs	1	**172-5097**
Vent filter for internal tank	2	**171-0550**
30 l PE pure water storage reservoir	1	**171-0053**
Tank connection kit	1	**171-0758**
Wall mounting bracket with tap, for Direct Q® and RiOs™	1	**171-0759**
Pressure regulator	1	**172-5107**

Water purification systems, Select Analyst

For Grade II water quality

For many everyday pure water laboratory applications, the Purite Select Analyst systems can be used for laboratory glassware rinsing, buffers and stains, reagent makeup and media preparation. Combining reverse osmosis and additional deionisation, they provide >1 MΩ/cm water from a potable mains supply. A boost pump is fitted to all models to accommodate areas of low water pressure (below 2 bar). GP models are supplied without internal tank, to allow connection to external tank for greater storage capacity of purified water (external tank has to be ordered separately).

- High quality reverse osmosis and pretreatment modules for reliable and consistent quality of purified water
- Internal tanks with minimal external connections for an easy installation
- Display panel with information easily accessible and alarms so that the system status is constantly monitored and alarms notify the user of changes
- Water on demand
- Each unit has a full installation kit included

BS EN ISO 3696 Grade II - ASTM D1193-99E1

Delivery information: Supplied with alphanumeric display panel, pretreatment cartridge, reverse osmosis module, deionisation module and single tank bib-tap. External tanks required for GP models are also available, please contact your local VWR office for details. Other Purite systems are available, please contact your local VWR office for details.

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Model	Analyst 40	Analyst 80	Analyst 160	Analyst 320
Feed water	Potable (tap)			
Flow rate (l/h)	3,6-6	7,2-12	14,4-24	30 - 48
Organic - TOC (ppb)	<50			
pH	Neutral			
Bacteria	>99% rejection*			
Inorganics	>1 MΩ/cm			
W×D×H (mm)	408×548×630			408×548×860
Weight (kg)	19 (system only) ; 39 when working			30 (system only) ; 60 when working

Description	Pk	Cat. No.
Select Analyst 40 GPBP, with boost pump (without internal tank)	1	**171-0276**
Select Analyst 40 BP, with boost pump and internal tank (20 l)	1	**171-0183**
Select Analyst 80 GPBP, with boost pump (without internal tank)	1	**171-0278**
Select Analyst 80 BP, with boost pump and internal tank (20 l)	1	**171-0185**
Select Analyst 160 GPBP, with boost pump (without internal tank)	1	**171-0280**
Select Analyst 160 BP, with boost pump and internal tank (20 l)	1	**171-0187**
Select Analyst 320 GPBP, with boost pump (without internal tank)	1	**171-0282**
Select Analyst 320 BP, with boost pump and internal tank (30 l)	1	**171-0189**

Description	Pk	Cat. No.
Cartridges		
Cartridges set: 2×PT16 and 2×PP16, for Select Analyst 320	1	**171-0256**
Cartridges set: 2× PT8 and 2×PP8, for Select Analyst 40/80/160	1	**171-0885**
Accessories		
External tank 50 l, for Select Analyst systems	1	**171-0613**
External tank 100 l, for Select Analyst systems	1	**171-0883**
Wall mounting bracket for Select systems	1	**171-0612**
Wall mounting kit for Select systems	1	**171-0884**
External tank wall mounting kit, for Select Analyst and HP systems	1	**171-0614**
Remote display for Select Analyst, HP, PW300 systems	1	**171-0878**

*when measured directly across membrane

Water purification system, Purite Select Purewater 300

The Purite Select Purewater 300 is designed specifically for use with laboratory glassware washing machines, providing rinse water to a purity of over1 MΩ.cm at a flow rate of up to 48 litres per hour.

The system is compact, robust, simple to use and easy to maintain, using proven pre-treatment, reverse osmosis and ion-exchange deionisation technology to ensure a reliable and consistent supply of purified water.

The unit has standard connections for quick installation, with a high flow outlet that fits easily to most glassware washing machines using 1/2" or 3/4" gravity feed. It incorporates a standard 20 litre integral tank. An optional 50 or 100 litre tank is available for extra capacity, please contact your local VWR office.

The Purewater 300 includes a boost pump to ensure optimum performance at all times, especially in areas where incoming feed water pressure is below 4 bar.

- High quality reverse osmosis and pre-treatment modules ensure a reliable and consistent quality of water
- Water quality is constantly monitored and displayed
- Compact footprint, saving on valuable bench space
- Minimal external connections for easy installation
- System information is easily accessible
- Alarms notify the user of changes

Model	Purewater 300
Feed water	Potable mains supply
Flow rate (l/h)	48/30 (rate @ 25/10 oC)
Storage capacity	20 l integrated tank
Organic - TOC (ppb)	<50 ppb
Resistivity at 25 °C (MΩ)	>1
pH	Neutral
Bacteria	>99% rejection
W×D×H (mm)	408×548×860 mm
Weight (kg)	51 (working weight)

Description	Pk	Cat. No.
Water purification system, Select Purewater 300	1	**171-0882**

Description	Pk	Cat. No.
Cartridges		
Cartridges set: 2×PT16 and 2×PP16, for Select Analyst 320	1	**171-0256**
Accessories		
Wall mounting bracket for Select systems	1	**171-0612**

Water purification systems, Puranity PU

Produce up to 200 litres/day of Type I ultrapure water from pretreated feed water

There are areas in which particularly high demands are placed on the water quality: Chemical organic or inorganic trace analysis, for example, for TOC measurements and instrumental methods such as HPLC, ICP-MS and IC. The demands are even higher in the life sciences. Freedom from endotoxins and nucleases is a necessity when preparing, or working with, tissue and cell culture media, PCR, DNA, or monoclonal antibodies. The PU basic, UV and UV/UF versions have already convincingly demonstrated the benefits of the new system control and the high-precision, USP-complying conductivity measurement with temperature compensation that can be switched on or off.

- Compact system and smart design, easy to maintain
- Feed water monitoring
- Variable flow dispensing
- Deionisation cartridges are easy to change without depressurising the system
- Backlit display tilts for easy viewing
- Online TOC measurement with UV intensity monitoring
- RS232 interface with adjustable send interval for safe data transfer of all measured data, faults, date and time to a PC computer or log printer

Delivery information: All Puranity PU systems include a DI cartridge pack, 0,2 µm final filter, pressure reducer, feed water monitoring, UV lamp (for UV systems only) and ultrafilter (for UF systems only)

Model	Puranity PU 15	Puranity PU 15 UV	Puranity PU 15 UV/UF	Puranity PU 20	Puranity PU 20 UV	Puranity PU 20 UV/UF
Average daily needs	50 l			200 l		
Feed water	Pretreated tap water by RO, ion exchange or distillation					
Flow rate (l/min)	max. 1,5			max. 2		
Conductivity (µS/cm)	0,055					
Max. operating pressure (bar)	2 - 6			0,1 - 6		
TOC content	5 - 10 ppb 1 - 5 ppb with UV lamp					
Resistivity at +25 °C	18,2 MΩ.cm					
Bacteria	<1 (CFU/ml)					
Particles	<1 (0,22 µm/ml)					
Endotoxins	-		<0,001 EU/ml	-		<0,001 EU/ml
RNases			<0,003 ng/ml			<0,003 ng/ml
DNases			<0,4 pg/µl			<0,4 pg/µl
Power consumption (kW)	0,06					
W×D×H (mm)	305×300×545			370×330×615		

Description	Pk	Cat. No.
Water purification system, Puranity PU 15 Basic	1	**171-1100**
Water purification system, Puranity PU 15 UV with UV lamp	1	**171-1102**
Water purification system, Puranity PU 15 UV/UF with UV lamp and ultrafilter	1	**171-1101**
Water purification system, Puranity PU 20 Basic	1	**171-1172**
Water purification system, Puranity PU 20 UV (with UV lamp)	1	**171-1174**
Water purification system, Puranity PU 20 UV/UF (with UV lamp and ultrafilter)	1	**171-1173**

Description	Pk	Cat. No.
Cartridges		
Polisher cartridge for PU 15	1	**171-1104**
Polisher cartridge for PU 20	1	**171-1175**
Disinfection agent, MICRO-Chlor (pack of 12 cans)	12	**171-1123**
Accessories		
System wall mount bracket for PU and TU models	1	**171-1125**
Volume dispenser	1	**171-1179**
Ultrafilter for PU 20 UV/UF models	1	**171-1184**
Replacement UV lamp for PU 20 UV and UV/UF models	1	**171-1176**
Sterile filter 0,2 µm	1	**171-1105**
Ultrafilter for UV/UF models	1	**171-1106**
Replacement UV lamp for UV & UV/UF models	1	**171-1108**

Water purification systems, Puranity TU

Puranity TU 3, 6 and 12 systems produce up to 100 litres/day of Type I ultrapure water from tap water, as well as Type II water available from the tank

For converting potable tap water to ultrapure water of ASTM Types I and II.

Water purification progresses through independent cartridges with Aquastop quick-connect for fast replacement.
- Module 1 - Combination of pretreatment and the reverse osmosis membrane
- Module 2 - Polishing cartridge contains high-quality ultrapure resin for consistent purity and long cartridge life

- Dispensing is easy and features variable speed to control flow
- The display can be tilted for optimal reading
- Placement options: Can be placed on a laboratory bench or mounted on the wall
- Deionisation cartridges are easy to change without depressurising the system
- Easy to maintain
- Large opening for easy and effective cleaning by hand
- Sterile venting filter/reservoir overflow protects against contamination by microorganisms

Delivery information: Puranity TU 3,6, and 12 systems include a RO/pretreatment cartridge, DI cartridge pack, 0,2 µm final filter, pressure reducer, feed water monitoring, UV bulb (for UV systems only) and ultrafilter (for UF systems only). The 3 and 6 litres/hr systems also include an internal 6 l tank with vent filter. The TU 12 requires an external tank. Please contact your local VWR sales office to discuss your requirements before making your selection as different areas of the country may require additional pretreatment option.

Model	Puranity TU 3	Puranity TU 3 UV	Puranity TU 3 UV/UF	Puranity TU 6	Puranity TU 6 UV	Puranity TU 6 UV/UF	Puranity TU 12	Puranity TU 12 UV	Puranity TU 12 UV/UF
Feed water	Potable (tap) water acc. to DIN 2000								
Flow rate (l/min)	max. 1,0*								
Conductivity (µS/cm)	0,055 (ASTM II: 0,067 – 0,1)*								
Max. operating pressure (bar)	1 - 6								
TOC content	5 - 10 ppb* 1 - 5 ppb with UV lamp*								
Resistivity at +25 °C	18,2 MΩ.cm								
Bacteria	<1 (CFU/ml)*								
Particles	<1 (0,2 µm/ml)*								
Endotoxins	-		<0,001 EU/ml	-		<0,001 EU/ml	-		<0,001 EU/ml
RNases			<0,003 ng/ml			<0,003 ng/ml			<0,003 ng/ml
DNases			<0,4 pg/µl			<0,4 pg/µl			<0,4 pg/µl
Power consumption (kW)	0,06								
W×D×H (mm)	330×370×615								
Weight (kg)	22								

Description	Pk	Cat. No.
Water purification system, Puranity TU 3 Basic	1	**171-1134**
Water purification system, Puranity TU 3 UV with UV lamp	1	**171-1135**
Water purification system, Puranity TU 3 UV/UF with UV lamp and ultrafilter	1	**171-1136**
Water purification system, Puranity TU 6 Basic	1	**171-1137**
Water purification system, Puranity TU 6 UV with UV lamp	1	**171-1138**
Water purification system, Puranity TU 6 UV/UF with UV lamp and ultrafilter	1	**171-1139**
Water purification system, Puranity TU 12 Basic	1	**171-1162**
Water purification system, Puranity TU 12 UV with UV lamp	1	**171-1163**
Water purification system, Puranity TU 12 UV/UF with UV lamp and ultrafilter	1	**171-1164**

Description	Pk	Cat. No.
Cartridges		
Polisher cartridge	1	**171-1141**
Pretreatment + RO cartridges for Puranity TU 3	1	**171-1142**
Pretreatment + RO cartridges for Puranity TU 6	1	**171-1143**
Disinfection agent, MICRO-Chlor (pack of 12 cans)	12	**171-1123**
Pretreatment + RO cartridges for Puranity TU 12	1	**171-1165**
Accessories		
System wall mount bracket for PU and TU models	1	**171-1125**
Accessory dispenser kit for dispensing type II water	1	**171-1181**
Sterile vent filter external storage tank 30-100 litres	1	**171-1166**
Venting filter 0,2 µm for internal tank	1	**171-1144**
Printer	1	**171-1160**
Sterile filter 0,2 µm	1	**171-1105**
Ultrafilter for UV/UF models	1	**171-1106**
Replacement UV lamp for UV & UV/UF models	1	**171-1108**

* Type I

Ultrapure water system, Milli-Q® Reference

Produces Type I reagent grade water from pre-treated feed water

The Milli-Q® Reference system delivers ultrapure (Type I) water customised to fit a broad range of research areas while conserving laboratory resources such as time and space. It incorporates a new purification strategy combining initial purification of Type II feed water with individualised final purification. Depending on their application, scientists can install a variety of available polishing cartridges to remove specific contaminants at the point of delivery. A graphic screen clearly displays water quality and system status.

Combining deionisation, UV technology and final polishing, the Milli-Q® Reference system produces Type I ultrapure water (18,2 MOhm.cm resistivity @ 25 °C, ≤5 ppb total organic carbon (TOC)) on demand. The innovative purification strategy allows the use of different consumables at the final polishing step to target the contaminants that are critical to different applications.

Additional bench space can be saved by placing the Milli-Q® Reference system under your bench or by using the optional bracket to wall mount the unit. The system can be connected to a Q-POD® (point of use delivery unit) and ultrapure water is always within reach. If fed from a reservoir, the system can be protected with a feed water conductivity cell.

- Volumetric function saves time – automatic delivery of the water volumes that are needed
- The low flow function allows easy preparation of solutions
- The point of delivery is designed to fit the height and shape of all laboratory glassware
- Graphic screen clearly displays water quality and system status information in a choice of languages
- Minimal maintenance through easily replaceable cartridges, a long lasting UV lamp and timely service alerts
- Data connection: Ethernet (RJ45)

The Milli-Q® Reference system is tested by an independent and accredited company for compliance with the CE directives related to safety and electromagnetic compatibility. It is built using components and practices recommended by UL and has been CUL marked. The Milli-Q® Reference system is delivered with a Certificate of Conformity ensuring that it has been built and tested fully assembled following Millipore Standard Operating Procedures and a Certificate of Calibration for the temperature and resistivity meters built in the system. The Milli-Q® Reference consumables are automatically delivered with a Certificate of Quality. Millipore's manufacturing site is ISO 9001 v.2000 and ISO 140001 certified.

Ordering information: A wide range of end filters allows to adapt the ultrapure water to a specific application in a glimpse: The user should switch from a Millipak® Express 40 filter for general laboratory applications to an LC-Pak for production of UHPLC or LC-MS grade water or a BioPak® filter for the delivery of pyrogen-free and nuclease-free water for PCR or other molecular biology applications.

Model	Milli-Q® Reference
Feed water	Type II pre-treated water with conductivity <100 µS/cm and TOC <50 ppb
Flow rate (l/min)	50...2000 (adjustable manual dispense flow)
TOC content	<5 ppb
Resistivity at +25 °C	18,2 MΩ.cm
Bacteria	<0,1 cfu/ml (met Millipak® Express 40 of BioPak® eindfilter)
Pyrogen	<0,001 EU/ml (with BioPak® end filter)
RNases	<0,01 ng/ml (with BioPak® end filter)
DNases	<4 pg/ml (with BioPak® end filter)
W×D×H (mm)	413×458×713
Weight (kg)	14,5 (system empty), 19 (with full tank)

Description	Pk	Cat. No.
Milli-Q® Reference (UK-plug, manual in English)	1	**171-0242**

Description	Pk	Cat. No.
Cartridges		
EDS-Pak cartridge installation and conditioning kit	1	**171-0244**
Q-Gard® T1 Purification Pack (Elix® RO distilled feed)	1	**172-0010**
Q-Gard® T2 purification pack (DI feed water)	1	**172-0011**
Quantum® TEX polishing cartridge (contains Organex & Ionex resins for trace levels of organics and ions)	1	**172-0012**
Quantum® TIX polishing cartridge (contains Ionex resin for trace levels of ions)	1	**171-0096**
Accessories		
BioPak® final filter for pyrogen and nuclease removal; ultrafiltration used to provide pyrogen-free and nuclease-free water for critical cell culture or molecular experiments	1	**172-5157**
EDS-Pak® final filter for endocrine disrupters (EDS) removal	1	**172-0008**
Millipak® Express 40 filter unit, 0,22 µm membrane, non sterile, for particulate and bacteria removal	1	**172-0009**
Q-POD® and E-POD® wall mounting bracket	1	**171-0231**
System wall mounting bracket for ultrapure water systems	1	**171-0133**
Replacement UV lamp for Milli Q® A10	1	**172-5074**
Feed water conductivity cell	1	**171-0232**
Pressure regulator	1	**172-5107**
Water detector	1	**171-0246**
Foot-pedal for water system operation	1	**171-0233**
Q-POD® ultrapure water remote delivery point	1	**171-0245**
Replacement UV lamp 185/254 nm	1	**171-0097**
Chlorine tablets	45 Tab.	**171-0755**

Ultrapure and pure water purification systems, Milli-Q® Direct

Single system for production of pure (Type III) and ultrapure (Type I) water from tap water

The Milli-Q® Direct systems produce Type I ultrapure water, 18,2 MΩ.cm resistivity @ 25 °C and <5 ppb Total Organic Carbon (TOC) directly from tap water. Type III pure water for basic lab applications is produced at flow rates of 8 and 16 l/hr (up to 300 l/day).

- Provides manual and volumetric water dispense at low and high flow rate (up to 2 l per min). The 75 cm long dispenser reaches the sink for easy glassware washing
- Hands-free water delivery using the footswitch option for convenience
- Complete process monitoring system checking systematically, the water temperature, pressure, conductivity and RO rejection using calibrated meters at different steps

The Type III pure water is stored in a reservoir from where it can be sourced through a front valve to be used for analytical techniques with sensitivity at ppm level or above. It can be sent by a delivery pump to feed instruments such as a glassware washing machine or further processed by the Milli-Q® Direct to produce ultrapure (Type I) water. The Type I product water is suitable for the most critical laboratory applications. A wide range of end filters allows you to adapt your ultrapure water to a specific application in a glimpse: you may switch from a Millipak™ Express 40 filter for general laboratory applications to an LC-Pak for production of UHPLC or LC-MS grade water or a BioPak® filter for the delivery of pyrogen-free and nuclease-free water for PCR or other molecular biology applications.

Complete quality assurance support: certificates of conformity, quality, calibration and qualification documents on request.

Ultrapure (Type I) Product Quality	
Resistivity	18,2 MΩ.cm at 25 °C
TOC	<5 ppb
Particulates (> 0,22 µm)	<1 Particulate/ml
Bacteria	<0,1 cfu/ml
Endotoxin	<0,001 EU/ml after BioPak final filter
RNases	<0,01 ng/ml (RNase-free) after BioPak®
DNases	<4 pg/µl (DNase-free) after BioPak®
Pure (Type III) Product Water Quality	
Ionic rejection	97 to 98% with new RO cartridge
Organic rejection for MW > 200	>99%
Bacteria and particulates rejection	>99%
Manual dispense flow rate Type I water	Adjustable between 50 and 2000 ml/min
Automatic dispensing Type I water	From 100 ml to 60 l
Flow rate Type III water	8 l/h (Milli-Q® Direct 8), 16 l/h (Milli-Q® Direct 16)
Delivery flow rate Type III water	Up to 2,5 l/min, with optional pump up to 15 l/min at 1 bar
Dimensions (W×D×H)	332×484×497 mm
Operating weight 8/16	27/28 kg
Data connection	Ethernet (RJ45)

Description	Pk	Cat. No.
Milli-Q® Direct 8 for production (8 l/h) of pure water (Type III) and ultrapure water (Type I) - UK-plug, manual in english	1	**171-0571**
Milli-Q® Direct 16 for production (16 l/h) of pure water (Type III) and ultrapure water (Type I) - UK-plug, manual in english	1	**171-0573**

Description	Pk	Cat. No.
Cartridges		
EDS-Pak cartridge installation and conditioning kit	1	**171-0244**
LC-Pak for the production 500 l of ultrapure water for organic traces analysis, recommended in trace sensitive applications such as UPLC or LC-MS	1	**171-0333**
Progard® T3 Pack for reverse osmosis protection	1	**171-0555**
Q-PAK® TEX polishing cartridge	1	**171-0556**
Q-PAK TIX	1	**171-0664**
Accessories		
BioPak® final filter for pyrogen and nuclease removal; ultrafiltration used to provide pyrogen-free and nuclease-free water for critical cell culture or molecular experiments	1	**172-5157**
EDS-Pak® final filter for endocrine disrupters (EDS) removal	1	**172-0008**
Millipak® Express 40 filter unit, 0,22 µm membrane, non sterile, for particulate and bacteria removal	1	**172-0009**
ASM (Automatic Sanitisation Module): Decontamination module for PE reservoirs with regular UV light emission inside the reservoir to prevent bacteria development	1	**171-0395**
Wall mounting bracket for 30, 60 l tank	1	**171-0054**
Wall mounting bracket for 100 l tank	1	**171-0890**
Vent filter for 30/60/100 l PE reservoirs	1	**172-5097**
30 l PE pure water storage reservoir	1	**171-0053**
60 l PE pure water storage reservoir	1	**171-0713**
100 l PE pure water storage reservoir	1	**171-0714**
Q-POD® and E-POD® wall mounting bracket	1	**171-0231**
System wall mounting bracket for ultrapure water systems	1	**171-0133**
Water detector	1	**171-0246**
Foot-pedal for water system operation	1	**171-0233**

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Description	Pk	Cat. No.
Accessories		
Q-POD® ultrapure water remote delivery point	1	**171-0245**
Replacement UV lamp 185/254 nm	1	**171-0097**
Chlorine tablets	45 Tab.	**171-0755**

Water purification system, Milli-Q® Integral

The Milli-Q® Integral system is a compact solution that combines the production of Type II (pure) water and Type I (ultrapure) water in a single unit, eliminating the need for a pretreatment stage upstream of the ultrapure water system.

- Integrated Elix® technology provides high, consistent water quality at optimum operating cost
- Resistivity and TOC monitoring allows control over both ionic and organic contaminants that can impact results
- Placed at the outlet of each dispenser, the system's POD Paks have been designed to remove specific types of contaminants

Model	Milli-Q® Integral 3	Milli-Q® Integral 5	Milli-Q® Integral 10	Milli-Q® Integral 15
Flow rate (l/min)	up to 2,0 (at the E-POD® level)			
Flow rate - Type I ultrapure water	3 l/h	5 l/h	10 l/h	15 l/h
TOC content	<5			
Resistivity - Type I product water	18,2 MΩ/cm at 25 °C			
Bacteria	<0,1			
Particles	<1			
Pyrogen	< 0,001 (with BioPak® filter as POD Pak)			
RNases	<0,01			
DNases	<4			
W×D×H (mm)	332×484×500			
Operating weight with full tank (kg)	24 - 28			

Description	Pk	Cat. No.
Water purification system, Milli-Q® Integral 3 (UK-plug, manual in English)	1	**171-0721**
Water purification system, Milli-Q® Integral 5 (UK-plug, manual in English)	1	**171-0730**
Water purification system, Milli-Q® Integral 10 (UK-plug, manual in English)	1	**171-0739**
Water purification system, Milli-Q® Integral 15 (UK-plug, manual in English)	1	**171-0769**

Description	Pk	Cat. No.
Cartridges		
Start-up kit cartridge	1	**171-0641**
Progard cartridge	1	**171-0378**
Quantum® TEX polishing cartridge (contains Organex & Ionex resins for trace levels of organics and ions)	1	**172-0012**
Quantum® TIX polishing cartridge (contains Ionex resin for trace levels of ions)	1	**171-0096**
Accessories		
Millipak® Express 40 filter unit, 0,22 µm membrane, non sterile, for particulate and bacteria removal	1	**172-0009**
ASM (Automatic Sanitisation Module): Decontamination module for PE reservoirs with regular UV light emission inside the reservoir to prevent bacteria development	1	**171-0395**
Wall mounting bracket for 30, 60 l tank	1	**171-0054**
Wall mounting bracket for 100 l tank	1	**171-0890**
Vent filter	1	**172-5096**
30 l PE pure water storage reservoir	1	**171-0053**
60 l PE pure water storage reservoir	1	**171-0713**
100 l PE pure water storage reservoir	1	**171-0714**
Q-POD® and E-POD® wall mounting bracket	1	**171-0231**
System wall mounting bracket for ultrapure water systems	1	**171-0133**
UV lamp 254 nm for Elix/RiOs-DI™	1	**171-0137**
Replacement UV lamp 185/254 nm	1	**171-0097**
Dispenser E-POD	1	**171-0594**
Chlorine tablets	45 Tab.	**171-0755**

Ultrapure water system, Milli-Q® Advantage A10

Produces Type I ultrapure water from pretreated feed water

Milli-Q® Advantage A10 water purification system delivers up high-quality water adapted to every user's needs in today's laboratory environment. It combines compact production unit with point of use ultra pure delivery unit for maximum versatility. Ideal for labs with limited space. Amongst the applications are; spectrophotometry, spectroscopy, chromatography and biochemistry.

The system features two separate and distinct components; the production unit and the delivery point-of-use unit: The Milli-Q® production unit is a compact system that can be placed either on the bench, under the bench or on a wall; the Q-POD® (Quality-Point-of-Delivery) unit provides final polishing at the point of use, delivering ultrapure water adapted to specific needs. The Q-POD® interface simplifies operation and displays essential data for complete user reassurance. Up to three Q-POD® can be used with each production unit at different locations within the same laboratory.

Pure water, ideally from an Elix® purification system, enters the Q-Gard® pretreatment pack which is chosen based on the feed water source. Pretreated water then passes into a double wavelength UV lamp, which ensures organic molecule oxidation and bacteria destruction. Next, the Quantum® polishing cartridge removes ionic and organic contaminants below trace levels to match the water quality required for the lab application. Finally, the ultrapure water produced by the system recirculates through a loop up to the Q-POD® unit, where a unique range of final purifiers ensure the final purification step for all applications.

- Easy data access: The user can see essential information (water quality, system status, warning, etc.) on the Q-POD® unit screen at any time
- Double monitoring, from Q-POD® unit allows control over both ionic and organic contaminants that can impact research results
- Graphic display, on the Milli-Q® production unit, guides user through system operation, performance, trouble shooting and maintenance and can be password-protected

The Milli-Q® Advantage system is delivered with a Certificate of Conformity ensuring that it has been built and tested fully assembled following Millipore Standard Operating Procedures and a Certificate of Calibration for the temperature and resistivity meters built in the system. The Milli-Q® Advantage consumables are automatically delivered with a Certificate of Quality. Millipore's manufacturing site is ISO 9001 v.2000 and ISO 140001 certified.

Delivery information: Order both the production unit and Q-POD® point-of-use dispenser for a complete system. Accessories and consumables, including wall mounting brackets, flow regulator, purification packs, filters and replacement lamps, are sold separately.

Model	Milli-Q® Advantage A10
Flow rate (l/min)	up to 2,0*
TOC content	<5 ppb
Resistivity at +25 °C	18,2 MΩ.cm
Bacteria	< 0,1 cfu/ml**
Particles	<1 particulates/ml (>0,22 µm)*
Endotoxins	< 0,001 EU/ml**
RNases	< 0,01 ng/ml**
DNases	< 4 pg/µl**
W×D×H (mm)	332×360×497 POD delivery unit dimensions (D×H): 230×579
Weight (kg)	19 (POD unit operating weight: 5,5)

Description	Pk	Cat. No.
Milli-Q® Advantage A10 water purification system (UK plug, manual in english)	1	**171-0610**

Description	Pk	Cat. No.
Cartridges		
Q-Gard® T1 Purification Pack (Elix® RO distilled feed)	1	**172-0010**
Q-Gard® T2 purification pack (DI feed water)	1	**172-0011**
Quantum® TEX polishing cartridge (contains Organex & Ionex resins for trace levels of organics and ions)	1	**172-0012**
Quantum® TIX polishing cartridge (contains Ionex resin for trace levels of ions)	1	**171-0096**
Accessories		
BioPak® final filter for pyrogen and nuclease removal; ultrafiltration used to provide pyrogen-free and nuclease-free water for critical cell culture or molecular experiments	1	**172-5157**
Millipak® Express 40 filter unit, 0,22 µm membrane, non sterile, for particulate and bacteria removal	2	**171-0589**
Millipak® Express 40 filter unit, 0,22 µm membrane, non sterile, for particulate and bacteria removal	1	**172-0009**
Q-POD® and E-POD® wall mounting bracket	1	**171-0231**
System wall mounting bracket for ultrapure water systems	1	**171-0133**
Replacement UV lamp for Milli Q® A10	1	**172-5074**
Feed water conductivity cell	1	**171-0232**
Pressure regulator	1	**172-5107**
Water detector	1	**171-0246**
Foot-pedal for water system operation	1	**171-0233**
Q-POD® ultrapure water remote delivery point	1	**171-0245**
Replacement UV lamp 185/254 nm	1	**171-0097**
Chlorine tablets	45 Tab.	**171-0755**

* Test conditions with the appropriate Q-POD final polisher
** With BioPak® final

Water purification systems, RiOs-DI™ 3

To produce purified water for analysis (Type II water)

This system produces up to 10 litres per day of consistently high quality Type II water from tap water. It combines various treatment technologies including reverse osmosis and ion exchange resins, which remove all types of impurities. The integral UV lamp (on RiOs-DI™3 UV model only) is ideal for applications that require a low bacteria count.

- Unique, easily replaceable treatment pack includes pretreatment and the reverse osmosis diaphragm
- Easy maintenance: Only one pack to replace
- Colour display shows resistivity, temperature and water level in the integrated reservoir
- Integrated, compact 6 litre reservoir – connection to a 30 or 60 l reservoir is possible for higher daily needs
- Pump support ensures a constant flow of water through the reverse osmosis diaphragm, even if water pressure is low on the supply side or the temperature falls

Ordering information: The purification pack SmartPak™ (171-0752) has to be ordered with the system.

Model	RiOs-DI™ 3	RiOs-DI™ 3 UV
Feed water	Potable (tap) with conductivity <2000 µS/cm at 25 °C at a pressure between 0,5 and 6 bar	
Flow rate (l/h)	3 at 15 °C	
Organic - TOC (ppb)	<50	
Resistivity at 25 °C (MΩ)	>10 MΩ.cm	
Particles	>99 % rejected typically	
W×D×H (mm)	290×330×500	
Weight (kg)	7,3	7,8

Description	Pk	Cat. No.
RiOs-DI™ 3 water purification system (UK plug, manual in English)	1	**171-1007**
RiOs-DI™ 3 UV water purification system (UK plug, manual in English)	1	**171-1015**

Description	Pk	Cat. No.
Cartridges		
SmartPak™ purification pack for RiOs-DI™ system	1	**171-0752**
Accessories		
Wall mounting bracket for 30, 60 l tank	1	**171-0054**
Vent filter for 30/60/100 l PE reservoirs	1	**172-5097**
Vent filter for internal tank	2	**171-0550**
30 l PE pure water storage reservoir	1	**171-0053**
Tank connection kit	1	**171-0758**
Wall mounting bracket with tap, for Direct Q® and RiOs™	1	**171-0759**
Pressure regulator	1	**172-5107**
UV lamp 254 nm for Elix/RiOs-DI™	1	**171-0137**

Water purification system, Milli-DI™

The compact, easy to use Milli-DI™ water purification system has been designed especially to meet a need for small quantities of pure water, between 3 and 5 litres per day. The water produced is suitable for use in chemical and electrochemical applications, for the production of buffers, reagents and microbiological culture media, and a multitude of other applications. Milli-DI™ water can also be used as feed water for ultrapure water systems.

- Battery-powered, no mains connection required
- Water quality is readily monitored: the system is equipped with a temperature-compensated resistivity meter for the highest accuracy
- Easy to install: The system is simply connected to the drinking water supply
- The simple design of the treatment pack makes maintenance very easy
- Feed water requirements: Potable tap water with feed water pressure <4,5 bar
- The simple design of the deionisation pack makes maintenance easy (DI-PAK™); LED display indicates when the pack needs to be changed

Ordering information: The purification pack DI-PAK™ (172-5158) has to be ordered with the system.

Model	Milli-DI™
Feed water	Potable (tap) water at a feed-pressure of 1–4,9 bar (14–70 psi)
Flow rate (l/min)	0,5 - 0,7
Resistivity at +25 °C	>1 MΩ
W×D×H (mm)	270×170×430
Weight (kg)	5,6

Description	Pk	Cat. No.
Milli-DI™ system	1	**172-5109**

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Description	Pk	Cat. No.
Cartridges		
DI-PAK purification pack, large (3,2 l of resin), for Milli-DI™ system	1	**172-5158**
DI-PAK Purification Pack, medium (2,3 l of resin) for NP analysis, for Milli-DI™ system	1	**112-0039**
Accessories		
0,2 µm filter adapter	1	**171-0552**

Ultrapure water systems, Simplicity®

Type I ultrapure water for scientists who require less than 5 litres per day

The Simplicity® portable water purification system can be located anywhere in your laboratory. It requires no special installation, no water feed connection and produces ultrapure water on demand from pretreated water (Elix® system, distilled, deionised or reverse osmosis water). The Simplicity® system is an economical alternative for laboratories that currently use bottled water. Simplicity® ultrapure water, produced and used at the point-of-use, is not subject to the degradation and contamination that affects bottled water. The intuitive colour graphic display of the Simplicity® system means that the user can instantly see all system parameters, including water quality, reservoir level and whether the cartridge needs replacing.

The Simplicity® UV system contains a built-in dual wavelength UV lamp (185 and 254 nm) to reduce organic contaminants to <5 ppb making the water suitable for sensitive applications such as HPLC, GC and TOC analysis.

- During breaks in collection, constant water quality is guaranteed by automatic recirculation
- Easy installation: The user simply connects this to an electrical supply, connect the SimpliPak® cartridge, and then fill the removable reservoir with pre-treated water
- User friendly display
- System draws water from a removable, refillable, built-in reservoir
- Maintenance reduced to a single cartridge change once or twice a year, based on the resistivity value displayed for the ultrapure water produced; treatment module and filter can be changed without tools

Power supply: 100 - 230 V - 50 - 60 Hz

Ordering information: SimpliPak® should be added with a Millipak® or BioPak® final filter.

Model	Simplicity®	Simplicity® UV
Feed water	Pretreated water (Elix® system, RO, distilled or DI water)	
Flow rate (l/min)	>0,5	
TOC content	<15 ppb	<5 ppb
Resistivity at +25 °C	18,2 MΩ.cm	
Bacteria	< 0,1 cfu/ml*	
Particles	<1/ml	
Endotoxins	< 0,001 EU/ml*	
RNases	<0,01 ng/ml*	
DNases	4 pg/µl*	
W×D×H (mm)	290×360×510	
Weight (kg)	4,9 (empty) / 8,4 (operating weight)	5,4 (empty) / 9 (operating weight)

Description	Pk	Cat. No.
Simplicity® system (UK-plug, manual in English)	1	**171-0275**
Simplicity® UV system (UK- plug, manual in English)	1	**171-0749**

Description	Pk	Cat. No.
Accessories		
SimpliPak® 1 cartridge (for RiOs™, Elix® or still water feed)	1	**171-0766**
SimpliPak® 2 cartridge (for "clean" DI water feed)	1	**171-0092**
SimpliPak® 3 cartridge (for "dirty" DI water feed)	1	**171-0093**
UV lamp dual wavelength (185 and 254 nm)	1	**172-5007**
Final filter 0,05 µm for Simplicity®	1	**171-0761**
Vent Filter Millex 0,45, for Direct-Q and Simplicity® systems	10	**171-0609**
BioPak® final filter for pyrogen and nuclease removal; ultrafiltration used to provide pyrogen-free and nuclease-free water for critical cell culture or molecular experiments	1	**172-5157**
Millipak® Express 40 filter unit, 0,22 µm membrane, non sterile, for particulate and bacteria removal	1	**172-0009**

* with BioPak® ultrafiltration cartridge as final polisher

Ultrapure water systems, Synergy™

The Synergy™ ultrapure water systems are ideal for laboratories with access to purified water that need a point-of-use supply of high quality ultrapure water. The Synergy™ system is suitable for users needing 2 to 20 litres/day. The system produces Type I water from pretreated water at a flow from 1 to 1,2 l/min. The water produced is suitable for the preparation of buffers for liquid chromatography, biochemical experiments, isocratic or gradient solutions for HPLC analysis, culture media for bacteriological analysis or cell cultures and solutions for spectrophotometry, spectroscopy and other analytical techniques. The system monitor informs the user when cartridge exchange is required or when the UV lamp needs replacing (UV model only). A built-in timer allows the operator to deliver water for a fixed time period. The system automatically stops once the time period has elapsed. The time period can easily be set by the user between 1 and 60 minutes and remains stored in the memory until modified. The systems' compact design, along with the versatile remote dispenser, ensure easy installation anywhere in the laboratory, either on the bench or wall-mounted.

- Can be operated with or without remote dispenser
- Easy monitoring: The Synergy™ water system measures and displays water quality on its two line, alphanumeric display with a choice of six languages.
- Automatic recirculation allows the system to maintain water quality in-between periods of use
- Simple to operate and maintain: Unique purification packs simplify cartridge replacement
- Built-in dispense timer simplifies the dispensing operation and reduces operator attendance
- UV photo-oxidation for low organic contamination (UV model only)

Ordering information: SynergyPak™ should be added with a Millipak® or BioPak® final filter.

Model	Synergy™	Synergy™ UV	Synergy™ with integrated remote dispenser	Synergy™ UV with integrated remote dispenser
Feed water	Pretreated water (Elix® system, RO, distilled or DI water)			
Flow rate (l/min)	up to 1,5			
TOC content	<10 ppb	<5 ppb	<10 ppb	<5 ppb
Resistivity at +25 °C	18,2 MΩ.cm			
Bacteria	<0,1 cfu/ml*			
Particles	<1/ml			
Endotoxins	<0,001 EU/ml*			
RNases	<0,01 ng/ml*			
DNases	4 pg/µl*			
W×D×H (mm)	290×380×540			
Weight (kg)	6,7 (empty); 9,7 (operating weight)	7,2 (empty); 10,2 (operating weight)	System: 7,2 (empty); 10,2 (operating weight) Remote dispenser: 2,15	

Description	Pk	Cat. No.
Water purification unit		
Synergy™ ultrapure water system (UK-plug, manual in English)	1	**171-0711**
Synergy™ UV ultrapure water system (UK-plug, manual in English)	1	**171-0712**
Water purification unit with integrated remote dispenser		
Synergy™ ultrapure water system (UK-plug, manual in English), with integrated remote dispenser	1	**171-0694**
Synergy™ UV ultrapure water system (UK-plug, manual in English), with integrated remote dispenser	1	**171-0774**

Description	Pk	Cat. No.
Accessories		
SynergyPak™ I (Elix®, RO, distilled feed)	1	**171-0760**
SynergyPak™ II (Milli-DI™ or clean feed)	1	**171-0756**
SynergyPak™ III (DI feed)	1	**171-0757**
BioPak® final filter for pyrogen and nuclease removal; ultrafiltration used to provide pyrogen-free and nuclease-free water for critical cell culture or molecular experiments	1	**172-5157**
Millipak® Express 40 filter unit, 0,22 µm membrane, non sterile, for particulate and bacteria removal	1	**172-0009**
Remote dispenser spacer	1	**171-0886**
Remote dispenser stand	1	**171-0887**
UV lamp for Direct Q® 3 UV and Synergy™	1	**171-0553**
Pressure regulator	1	**172-5107**

** With BioPak® final

Water purification systems, Elix® Advantage

Produces Type II purified water from tap water

The Elix® Advantage Advantage systems use potable tap water to provide consistent, reliable pure water (70 l/day). The water produced is ideal as feed water for Type I Milli-Q® water systems. The Elix® Advantage water system combines electrodionisation (EDI) technology with additional purification technologies - Progard pretreatment cartridge, advanced reverse osmosis and an optional 254 nm UV lamp.

The system provides pressurised, bacteria-free pure water through the E-POD® (Elix Point-of-Delivery) units.

The compact water production unit is adapted to laboratory space constraints and can be installed on the wall or under a sink, saving valuable bench space. The system is modular and easily adaptable to evolve with changes in the lab.

- Consistent water quality at optimum operating cost
- Exceptional ergonomic design, with E-POD® units for easy, convenient water dispensing
- System information (water quality data, system status, tank level, maintenance messages and water dispensing information) is displayed on the unit's main screen
- Data can be viewed on a PC
- Easy maintenance: automatic self-cleaning functions; advanced warning of when pre-treatment pack needs changing; unit registers the treatment pack for traceability and to protect against use of inappropriate pack type
- Integral boost pump and optional UV lamp

The Elix® Advantage system meets or exceeds requirements as described by ISO® 3696 (Grade 2 water); ASTM® D1193 (Type II resistivity and TOC Table I specifications); and by the United States, European and Japanese Pharmacopeias for purified water.

Delivery information: Please order a Progard S2 pretreatment pack and vent filter (171-0590) with the main unit.

Model	Elix® Advantage 3	Elix® Advantage 5
Average daily needs	up to 70 l/day	up to 120 l/day
Flow rate (l/min)	2,0 (pure water delivery at E-POD®)	
TOC content	<30 ppb	
Resistivity at +25 °C	5 MΩ.cm	
Particles	<1 particulates/ml (>0,22 µm)	
W×D×H (mm)	346×484×500 POD delivery unit dimensions (D×H): 230×579	
Weight (kg)	26,4 (POD unit operating weight: 4,7)	24,6 (POD unit operating weight: 4,7)

Description	Pk	Cat. No.
Elix® Advantage 3 (3 l/hour), water purification system, pre-equipped for E-POD® unit (UK-plug, manual in English)	1	**171-0606**
Elix® Advantage 5 (5 l/hour), water purification system, pre-equipped for E-POD® unit (UK-plug, manual in English)	1	**171-0611**

Description	Pk	Cat. No.
Cartridges		
Start-up kit cartridge	1	**171-0641**
Progard S2 pretreatment pack + vent filter for 30 l tank	1	**171-0590**
Q-Gard® T1 Purification Pack (Elix® RO distilled feed)	1	**172-0010**
Accessories		
EDS-Pak® final filter for endocrine disrupters (EDS) removal	1	**172-0008**
Millipak® Express 40 filter unit, 0,22 µm membrane, non sterile, for particulate and bacteria removal	2	**171-0589**
Millipak® Express 40 filter unit, 0,22 µm membrane, non sterile, for particulate and bacteria removal	1	**172-0009**
ASM (Automatic Sanitisation Module): Decontamination module for PE reservoirs with regular UV light emission inside the reservoir to prevent bacteria development	1	**171-0395**
Wall mounting bracket for 30, 60 l tank	1	**171-0054**
Vent filter	1	**172-5096**
30 l PE pure water storage reservoir	1	**171-0053**
60 l PE pure water storage reservoir	1	**171-0713**
100 l PE pure water storage reservoir	1	**171-0714**
Q-POD® and E-POD® wall mounting bracket	1	**171-0231**
System wall mounting bracket for ultrapure water systems	1	**171-0133**
Dispenser E-POD	1	**171-0594**
Chlorine tablets	45 Tab.	**171-0755**

Water purification systems, Purite Select Fusion

The Purite Select Fusion is purpose built for analytical and life science applications that need small volumes of ultrapure (Type I) water to 18,2 MΩ.cm from a mains supply, typically up to 30 litres per day, in addition to purified water (Type II) for general laboratory use.

The self-contained, dual quality system integrates pre-treatment, reverse osmosis, UV photo-oxidation, ion exchange and sub-micron filtration technology in a single, robust and compact enclosure. A boost pump is fitted to all models to accommodate areas of low water pressure (below 2 bar).

The system provides take-off through either an ultrapure water dispenser or a separate bib tap. When it is not being used, water quality is enhanced by automatic recirculation.

- A high contrast colour LCD shows system status, including water quality, TOC, temperature and flow rates
- Visual and audible alarms for critical parameters
- Data can be downloaded via USB
- High production rates of up to 30 litres/hour for Type II water, and up to 2 litres/minute for Type I at high purity dispense point
- Automatic recirculation maintains Type I water quality

Delivery information: The Select Fusion can be wall or bench mounted and is supplied with an installation kit and a full set of consumables.

Model	Select Fusion 40	Select Fusion 80	Select Fusion 160	Select Fusion 320
Flow rate (l/h)	3,6*	7,2*	14,4*	30*
Pure water output (l/h)	up to 2**			
Storage capacity	20			
pH	Neutral			
Bacteria	<1 cfu/ml (high purity dispense) >99% rejection (purified water storage tank)			
Particles	<2 µm			
Endotoxins	<0,001 EU/ml			
Inorganics	up to 18.2 MΩ.cm (high purity dispense) 1 – 15 MΩ.cm (purified water storage tank)			
DNases	<4 pg/µl			
RNases	>0,01 ng/ml			
W×D×H (mm)	440×560×750			
Weight (kg)	51***			59***

Description	Pk	Cat. No.
Water purification system, Select Fusion 40, with boost pump	1	**171-0879**
Water purification system, Select Fusion 80, with boost pump	1	**171-0649**
Water purification system, Select Fusion 160, with boost pump	1	**171-0880**
Water purification system, Select Fusion 320, with boost pump	1	**171-0881**

Description	Pk	Cat. No.
Cartridges		
Consumable pack for Select Fusion 40/80/160: 2 × PP8, 2× NCP8, 1 × 0,2 µm point of use filter, 4 × 10" 5 µm carbon filter element, 1 × UV lamp 185/254 nm and 1 × internal UF membrane	1	**171-0875**
Consumable pack for Select Fusion 320: 2 × PP16, 2× NCP16, 1 x 0,2 µm point of use filter, 4 x 10" 5 µm carbon filter element, 1× UV lamp 185/254 nm and 1× internal UF membrane	1	**171-0876**

* Type II water @ 10 °C
** Type I water
*** Working weight

Ultrapure water systems, arium® pro
Sartorius

Continued on next page

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The arium® pro Type I water purification systems are designed for sophisticated users to meet all their requirements for reagent grade water, needed both for critical applications and routine analyses. Different versions are available for reliable and optimal analytical results.

The systems are available in a selection of bench top, wall-mounted and under bench units to adapt optimally to users' specific workplace requirements.

The glass touch display of the arium® pro with its integrated keys and an intuitive interface, guides users by menu prompts for ease of operation in producing reagent grade water. The system's various functions, such as volume and time dispensing as well as continuously adjustable flow rate, give users the greatest possible flexibility in routine applications. PIN protected service functions, Ethernet port and a wide choice of data storage options are additional convenience features that users of the new arium® pro series are bound to appreciate.

- Compact design, flexibility of use and simplicity of maintenance
- Innovative glass operator interface with touch function
- Service and alarm functions supported by graphic displays
- Conductivity measurement for feed and product water
- Integrated monitoring of water consumption
- RNases: <0,004 ng/ml; DNases: <0,024 pg/µ

Exceeds the requirements of standards ASTM, NCCLS, ISO and USP.

The system is delivered without a cartridge which has to be ordered separately. Please select either an Analytical or Elemental kit, depending on your application.

Model	arium® pro DI	arium® pro UF	arium® pro UV	arium® pro VF
Flow rate (l/min)	Up to 2	Up to 1,7	Up to 2	Up to 1,7
TOC content	1 - 4 ppb at 100 ppb feed water			
Resistivity at +25 °C	18,2 MΩ.cm			
Particles	<1/ml (@ 0,2 µm)			
Endotoxins	n.a.	<0,001 EU/ml	n.a.	<0,001 EU/ml
Microorganisms	<1 CFU/1000 ml			
W×D×H (mm)	350×451×492			
Operating weight with full tank (kg)	~27			
Weight (kg)	~17			

Description	Pk	Cat. No.
arium® pro system		
arium® pro DI wall-mounted unit, with front bottom-mounted display/dispenser unit and integrated wall bracket for the system	1	**171-0648**
arium® pro DI-T, bench top system for standard applications with front top-mounted display/dispenser unit	1	**171-0394**
arium® Pro UF-B, wall-mounted unit, with ultra-filter, for cell culture applications with front bottom-mounted display/dispenser unit and integrated wall bracket for the system	1	**171-0382**
arium® pro UF-T bench top system, with ultra-filter, for cell culture applications with front top-mounted display/dispenser unit	1	**171-0384**
arium® pro UV-B, wall-mounted unit, with UV lamp, for chromatographic applications with front bottom-mounted display/dispenser unit and integrated wall bracket for the system	1	**171-0385**
arium® pro UV-T, bench top system, with UV lamp for chromatographic applications with front top-mounted display/dispenser unit	1	**171-0387**
arium® pro VF-B, wall-mounted unit, with ultra-filter and UV lamp, for standard, cell culture and chromatographic applications with front bottom-mounted display/dispenser unit and integrated wall bracket for the system	1	**171-0388**
arium® pro VF-T, bench top system, with ultra-filter and UV lamp, for standard, cell culture and chromatographic applications with front top-mounted display/dispenser unit	1	**171-0390**
arium® pro with TOC analyser		
arium® pro UV-BTOC with integrated online TOC analyser, wall-mounted unit, with UV lamp, for chromatographic applications with front bottom-mounted display/dispenser unit	1	**171-0558**
arium® pro UV-TTOC with integrated online TOC analyser, with UV lamp, for chromatographic applications with front top-mounted display/dispenser unit	1	**171-0557**
arium® pro VF-BTOC with integrated online TOC analyser, wall-mounted unit, with ultra-filter and UV lamp, for standard, cell culture and chromatographic applications with front bottom-mounted display/dispenser unit	1	**171-0561**
arium® pro VF-TTOC with integrated online TOC analyser, with ultra-filter and UV lamp, for standard, cell culture and chromatographic applications with front top-mounted display/dispenser unit	1	**171-0560**

Description	Pk	Cat. No.
Cartridges		
Analytical kit, arium® pro cartridge set for biological, chemical-analytical	1	**171-0644**
Accessories		
Cleaning syringes, prefilled in 50 ml syringes	1	**171-1024**
UF hollow fibre filter	1	**171-0909**
UV lamp	1	**171-0910**
Display mounting kit, height-adjustable, including display mounting kit, for arium® built-in systems	1	**171-0891**

TOC values may vary depending on the quality of the feed water, the level of contamination in the feed water, and/or the type of cartridge in use.
The flow rate: Pressure of 2 bar, without final filter.

Ultrapure water systems, arium® basic

Sartorius

The arium® basic system supplies ASTM Type I ultrapure water and is used for both critical applications and routine analyses. Streamlined to incorporate only the most important functions for the production of high quality ultrapure water, the arium® basic is a cost effective alternative for the discerning user that is also very easy to use.

The systems are available in benchtop or wall mounted versions.

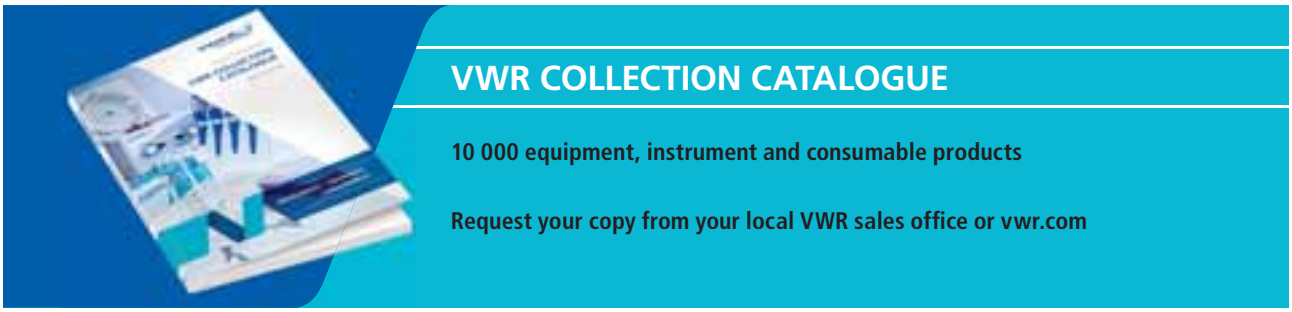
- Compact design, flexibility of use and simplicity of maintenance
- Innovative glass operator interface with touch function
- Time controlled dispensing
- Conductivity measurement for product water
- Service and alarm functions supported by graphic displays

The system is delivered without a cartridge which has to be ordered separately. Please refer to cartridge kits for arium® basic.

Model	arium® DI-B, basic	arium® DI-T, basic
Feed water	RO water (100 µS/cm), distilled water (4 µS/cm), deionised water (20 µS/cm)	
Flow rate (l/min)	Up to 2 (at a pressure of 2 bar without a final filter)	
Max. operating pressure (bar)	6,9	
TOC content	<5 ppb	
Resistivity at +25 °C	18,2 MΩ.cm	
Bacteria	<1 CFU/1000 ml	
Particles	<1/ml at 0,2 µm	
W×D×H (mm)	350×451×492	
Weight (kg)	17 (system only) / ~27 (operating weight with full tank)	

Description	Pk	Cat. No.
arium® basic wall-mounted unit with front bottom-mounted display/dispenser unit and integrated wall-mounting bracket	1	**171-0392**
arium® basic benchtop system with front top-mounted display/dispenser unit	1	**171-0393**

Description	Pk	Cat. No.
Cartridges		
Analytical kit, arium® pro cartridge set for biological, chemical-analytical	1	**171-0644**
Accessories		
Cleaning syringes, prefilled in 50 ml syringes	1	**171-1024**
UF hollow fibre filter	1	**171-0909**
UV lamp	1	**171-0910**
Display mounting kit, height-adjustable, including display mounting kit, for arium® built-in systems	1	**171-0891**



Water jet pump
Kartell

PP, white

For creating a vacuum and evacuating liquids and vapours (a catchpot or cooling trap may have to be fitted upstream). Especially powerful in the low water pressure range.

- Water consumption 300 l/h
- Will attain 20 mbar with 1 bar water pressure
- Suction capacity ~270 l air per hour
- Good chemical resistance
- Max. continuous operating temperature 80 °C

Ordering information: Delivery includes the water jet pump, one hose connector (12 - 13 mm external diameter) for the water port and one hose connector (9 - 11 mm external diameter) for the vacuum port.

Description	Flow rate pressure/ suction (l/min)	Final pressure (mbar)	Water pressure (bar)	Water consumption (l/h)	Temperature	Pk	Cat. No.
Water jet pump	4,5	20	1	300	80 °C	1	**181-0501**

Description	Pk	Cat. No.
Accessories		
Tube connector for quick release	1	**181-0502**

Water jet pump
Brand

PP, grey

For generating a vacuum and evacuating liquids and vapours (a catchpot or cooling trap may have to be fitted upstream).

- Extremely low water consumption (190 l/h at 3,5 bar flow pressure)
- Constant final pressure (16 mbar at 12 °C water temperature)
- Good suction capacity; ~400 l air per hour (against atmospheric pressure, 12 °C water temperature, 3,5 bar flow pressure)
- Good chemical resistance - the media to be transported only comes into contact with parts made from PP, FKM and PTFE
- Max. temperature in continuous operation 80 °C

Delivery information: Includes the water jet pump, an R ¾" cap nut, an R ½" reducing adapter, a hose nozzle (10 - 12 mm external diameter) for the water connector and a hose connector with 6 - 9 mm external diameter that can be unscrewed for the vacuum connection.

Description	Flow rate pressure/ suction (l/min)	Final pressure (mbar)	Water pressure (bar)	Water consumption (l/h)	Temperature	Length (mm)	Pk	Cat. No.
Water jet pump	6,67	16	3,5	190	80 °C	210	1	**181-9100**

Vacuum hand pumps, Nalgene®
Thermo Scientific

With these sturdy pumps, a partial vacuum of 86 mbar can be reached very quickly and easily. The vacuum can be controlled with just the index finger. Vacuum is set via a lever on the pump. The pumps reach full pressure with just two priming strokes. Removable cover on exhaust port and trigger to release vacuum, so the pump does not need to be disconnected from the partial vacuum line for venting. Hose connection for standard hoses with 6,4 mm internal diameter. Complete with 60 cm transparent plastic tube.

Vacuum hand pumps without vacuum gauge

PVC housing

- Suction volume 36 ml per stroke and 480 mbar overpressure at the outlet valve
- Economical construction, ideal for use outdoors and in the laboratory
- Does not include a vacuum gauge

Vacuum hand pumps with vacuum gauge, repairable

PVC housing

- Suction volume 15 ml per stroke and 210 mbar overpressure at the outlet valve (181-9902)
- Suction volume 36 ml per stroke and 480 mbar overpressure at the outlet valve (181-9903)
- Can be disassembled for repair, or to replace internal parts
- Includes vacuum gauge

Vacuum hand pumps with vacuum gauge, repairable

Zinc alloy housing

- Suction volume 15 ml per stroke and 210 mbar overpressure at the outlet valve
- Can be disassembled for repair, or to replace internal parts
- Includes vacuum gauge

Description	Housing	Pk	Cat. No.
Hand-operated vacuum pump, without vacuum gauge	PVC	1	**181-9907**
Hand-operated vacuum pump, repairable, with vacuum gauge	PVC	1	**181-9902**
Hand-operated vacuum pump, repairable, with vacuum gauge	PVC	1	**181-9903**
Hand-operated vacuum pump, repairable, with vacuum gauge	Zinc alloy	1	**181-9904**

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Mini diaphragm vacuum pump, VP 86

Single head, dry running diaphragm pump for a wide range of laboratory applications. It pumps, compresses and evacuates without affecting media, i.e. media remains uncontaminated. Includes diaphragm with patented tension optimisation, which allows the pump size to be smaller and extends the service life of the diaphragm.

- 100% oil-free pumping, so media is not contaminated when pumping, evacuating or compressing
- For neutral to mildly aggressive gases and vapours
- Maintenance-free, quiet running

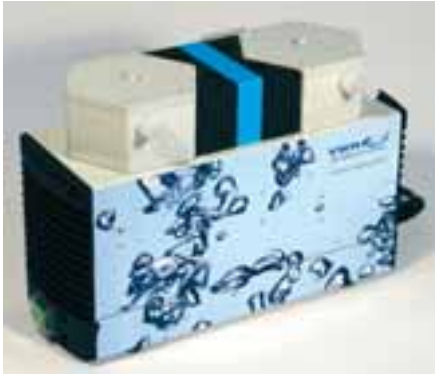
Delivery information: Includes diaphragm pump with thermal switch, mains fuse, connecting cable with plug, and hose connector for hoses with 4 mm internal diameter.

Model	VP 86
Flow rate (l/min)	6*
Working overpressure (bar)	2,4
Vacuum (mbar)	250
Final pressure (abs.) (mbar)	100
Protection class	IP 20
W×D×H (mm)	90×164×141
Weight (kg)	1,9

Model	Pk	Cat. No.
VP 86 with UK-Plug	1	**181-0065**

* Flow rate at atmospheric pressure

Diaphragm vacuum pump, VP 820



Dual-head, dry running diaphragm pump for a wide range of laboratory applications. It pumps, compresses and evacuates without affecting media, i.e. media remains uncontaminated. The pump includes a diaphragm with patented tension optimisation, which allows the pump to be smaller and prolongs the service life of the diaphragm.

- 100% oil-free pumping, so media cannot be contaminated when pumping and evacuating
- For medium aggressive gases and vapours
- Maintenance-free, quiet running

Delivery information: Includes diaphragm pump with thermal switch, mains fuse, connecting cable with plug, and hose connectors for hoses with 9 mm internal diameter.

Model	VP 820
Flow rate (l/min)	20*
Working overpressure (bar)	1,0
Final pressure (abs.) (mbar)	8
Protection class	IP 44
W×D×H (mm)	110×304×204
Weight (kg)	9,3

Model	Pk	Cat. No.
VP 820 with UK-plug	1	**181-0073**

* Flow rate at atmospheric pressure

Chemistry diaphragm vacuum pump, self-drying for moist gases, SD 820

Dual-head, dry running diaphragm pump with an integrated self-drying system. There is a wide range of applications for this pump in laboratories, especially whenever clean vacuum is required and moist gases must be pumped down. Examples include operation of vacuum drying chambers (for drying or heat-treating substances and components) or steam sterilisers for sterilising instruments, vessels, filters and textiles. This pump can be used in a wide range of applications due to the pump's high resistance to aggressive media. The pump includes a PTFE coated diaphragm with patented tension optimisation, which allows the pump to be smaller and prolongs the service life of the diaphragm. The innovative self-drying system allows condensed liquid to be blown out of the pump heads at high speed during evacuation. The vacuum in the vacuum chamber remains constant. The drying cycle can be adjusted to the requirements of the individual process using three variables. After drying the pump reaches a better vacuum and is able to evacuate significantly faster compared with pumps without a drying system.

- Pure transfer and evacuation
- Highly compatible with moist gases and vapours
- Maintenance-free
- Environmentally friendly

Delivery information: Includes the diaphragm pump with thermal switch, mains fuse, connecting cable with plug and hose connector for hose with 10 mm internal diameter.

Model	SD 820
Flow rate (l/min)	20
Working overpressure (bar)	1
Final pressure (abs.) (mbar)	10
Protection class	IP 44
Permitted gas and ambient air temperature	+5...+40 °C
W×D×H (mm)	312×220×177
Weight (kg)	9,6

Model	Pk	Cat. No.
SD 820	1	**181-0094**

* Flow rate at atmospheric pressure

Membrane dry vacuum pump/compressor, VP 80 and VP 130

The VCP 80 and VP 130 can be used as vacuum and pressure pumps and set a standard for efficient vacuum utility. Use these pumps for affordable vacuum in applications where corrosion resistance is not required. The pumps can be used for vacuum filtration of aqueous solutions or aqueous fumes including buffers but they are not recommended for pumping acidic, basic, or organic fumes.

These VWR Collection vacuum/pressure pumps are designed for continuous unattended operation and have two dial gauges with manual regulators to be able to adjust and to easily monitor the required vacuum or pressure level.

- Vacuum and pressure pump all in one
- WOB-L® piston technology
- Compact, easy to clean, easy handling
- Easy monitoring and vacuum regulation
- Lightweight construction

Delivery information: Delivered with EU, UK, CH-plug, instruction manual, vacuum and pressure regulator, vacuum and pressure gauge, silencer and water trap.

Model	VP 80	VP 130
Flow rate (l/min)	38	18
Flow rate (m^3/h)	2,3	1,1
Vacuum (mbar)	80	133
Final pressure (abs.) (mbar)	5200	7900
Motor output (kW)	0,19	0,093

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W×D×H (mm)	254×191×229	206×224×254
Weight (kg)	5,3	

Description	Pk	Cat. No.
Vacuum pump/compressor VP 80	1	**181-0309**
Vacuum pump/compressor VP 130	1	**181-0308**

Description	Pk	Cat. No.
Accessories		
Maintenance kit for VP 80 pump	1	**181-0313**
Maintenance kit for VP 130 pump	1	**181-0312**

Chemical duty high performance diaphragm pump, VP 220

The VP 220 is ideal for rotary evaporators providing the powerful vacuum needed for demanding evaporations without the use of oil pumps. VP 220 has a built-in Advanced Vapour Management (AVM) which means precise control capability for the distillation of organic solvents and applications handling aggressive vapours and gases. The VP 220 is especially effective for rotary evaporation of low boiling point solvents such as acetone, ethanol and is able to even strip DMF fast at 35 °C.

The pump parts are all made of corrosion resistant materials like PTFE and Kalrez to handle aggressive vapours, and together with the vacuum adjustment the evaporation process will be optimised. Use the vacuum adjustment to increase vacuum until bubbles form in the evaporation flask – then back off slightly. Reduce the vacuum for fast reaction to bumping or foaming.

- Durable and strong diaphragm technology
- Compact design, lightweight, portable
- Powerful chemical resistant diaphragm pump
- Adjustable vacuum to control evaporation rate
- Very little maintenance leading to low cost of ownership and improved productivity

Model	VP 220
Flow rate (l/min)	21
Flow rate (m^3/h)	1,3
Final pressure (abs.) (mbar)	2
W×D×H (mm)	352×172×223
Weight (kg)	9,6

Description	Pk	Cat. No.
Vacuum pump with adjustable vacuum control, VP 220	1	**181-0310**

Description	Pk	Cat. No.
Accessories		
Maintenance kit for VP 220 pump	1	**181-0314**
Vapour recovery kit for VP 220 pump, allows an efficient recovery of solvent and protection of the lab environment	1	**181-0317**
Vapour recovery kit for VP 220 pump and gauge, allows an efficient recovery of solvent and protection of the lab environment and the gauge	1	**181-0318**
Separator kit for VP 220 pump, prevents liquid drops entering the pump and collects condensate at the outlet	1	**181-0319**
Synchro kit for VP 220 pump, allows simultaneous operation of two independent vacuum applications	1	**181-0320**

Fluid aspiration system, BioChem VacuuCenter, BVC basic series
Vacuubrand

BVC Basic

BVC Basic G

The VacuuCenter BVC basic is designed for connection to an existing external vacuum source like a diaphragm pump or a vacuum network (e.g., VACUU·LAN®) and does not require electric power. The chemically resistant mechanical vacuum controller always ensures an optimal operating vacuum. The controller opens only when needed thus limiting the gas load on the vacuum source. The evaporation of collected liquid is minimised. The inlet tubing integrated in the bottle head reduces aerosol and foam formation and ensures a long service life of the hydrophobic protection filter. The aspiration system is available either as BVC basic

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with 4 litre PP bottle or as BVC basic G with 2 litre coated borosilicate glass bottle.

- Mechanical vacuum regulator to provide optimum working vacuum and minimise the vapour load on the vacuum network
- Stable base and electricity-free operation for convenience
- Autoclavable collection bottle designed to reduce aerosol and foam formation
- Aspiration hand set VacuuHandControl (VHC) with flow-through suction tube - no contamination of handle by aspirated media and hydrophobic 0,2 micron sterilisable filter - contamination risks for the vacuum pumping system are greatly reduced

Complete fluid aspiration system for existing vacuum source, with automatic vacuum control, hose nozzle DN 6/10 mm for connection to a vacuum supply, aspiration hand set VacuuHandControl VHC, collection bottle, protection filter and manual.
Pumps are supplied as standard with an EU plug. Please specify a UK plug when ordering and this will be supplied at no extra cost.

Model	BioChem-VacuuCenter BVC basic	BioChem-VacuuCenter BVC basic G
Final pressure of vacuum pump (mbar)	150	
Protection class	IP 54	
Vacuum pump	supplied without pump	
Weight (kg)	2,8	

Description	W×D×H (mm)	Pk	Cat. No.
BioChem-VacuuCenter BVC basic: with 4 l PP collection bottle for general aspiration tasks, completely autoclavable together with a 0,2 µm protection filter	250×200×490	1	**181-0298**
BioChem-VacuuCenter BVC basic G: with 2 l borosilicate glass collection flask with splinter-proof coating and leakage protection, with high chemical resistance for aggressive disinfectants like chlorine bleach; completely autoclavable together with 0,2 µm protection filter.	250×200×490	1	**181-0299**

3 years warranty

Fluid aspiration system, Biochem VacuuCenter, BVC control
Vacuubrand

The VacuuCenter BVC control serves for efficient and convenient aspiration of supernatants. The vacuum level - and thus the suction force - is precisely adjustable via the electronic touch panel and allows a sensitive and reproducible operation. The chemically resistant diaphragm vacuum pump is automatically turned on and off as needed, which reduces the low noise level even further. The BVC control is available in two complete equipment options with different collection flasks. The 2 litre borosilicate glass bottle with a protective coating has a very high chemical resistance. For larger amounts of liquids the 4 litre bottle of unbreakable polypropylene (PP) is used. The smooth surfaces allow an easy cleaning of the systems.

- Powerful and long-lasting chemistry diaphragm pump for universal economical use
- Extremely compact, space saving and low noise and thus the ideal tool in the workplace
- Easy operation due to electronically adjustable suction power via touch panel, for strong or sensitive suction
- Autoclavable collection bottle designed to reduce aerosol and foam formation
- Ready to accept a second aspiration hand controller (VHC) to support two users

Fluid aspiration system complete with powerful chemistry diaphragm pump, collection bottle, adjustable suction power control via touch panel, aspiration hand set VHC and protection filter, ready for use with manual.
Pumps are supplied as standard with an EU plug. Please specify a UK plug when ordering and this will be supplied at no extra cost.

Model	BioChem-VacuuCenter BVC control	BioChem-VacuuCenter BVC control G
Final pressure of vacuum pump (mbar)	150	
Protection class	IP 40	
Vacuum pump	ME 1C	
Weight (kg)	7,3	

Description	W×D×H (mm)	Pk	Cat. No.
BioChem-VacuuCenter BVC control (with UK plug): With 4 l PP collection bottle for general aspiration tasks, completely autoclavable together with a 0,2 µ protection filter	408×194× 500	1	**181-0418**
BioChem-VacuuCenter BVC control G (with UK-plug): With 2 l borosilicate glass collection flask with splinter-proof coating and leakage protection, with high chemical resistance for aggressive disinfectants like chlorine bleach; completely autoclavable together with 0,2 µ protection filter	408×194× 500	1	**181-0419**

Description	Pk	Cat. No.
Accessories		
Adapter for pipette tips with tip ejector, designed for pipette tips 2 - 200 µl	1	**181-0415**
Adapter for 8 pipette tips: allows parallel operation of 8 pipette tips (size 2 - 200 µl or 3-500 µl), designed to match the dimensions of microplates with tip ejector	1	**181-0340**
Stainless steel stand for the VHC^{pro}, enables to place the tipped suction handset conveniently and stable during work with cell cultures	1	**181-0416**
Spare silicone tubing for VHC / VHC^{pro} (minimum order quantity 2 m)	1 m	**181-0331**
VacuuHand Control VHC$^{pro:}$ ergonomic aspiration hand set with tip holder and adapter to accept a variety of common pipettes and tips, level for manual suction control, rotary knob for permanent aspiration, with 2,5 m tubing	1	**181-0417**

Fluid aspiration system, Biochem VacuuCenter, BVC professional
Vacuubrand

The VacuuCenter BVC professional serves for aspiration and disposal of biological fluids, providing outstanding levels of comfort and safety for working with biological and biohazardous materials. A non-contact sensor monitors the liquid level in the collection bottle electronically and prevents overfilling. A disinfection routine allows the suction of disinfectants through an aspiration hand set and tubing after switching off the pump, and so supports demanding safety protocols. The BVC professional with 4 litre PP bottle with self-closing quick couplings minimises risk in transporting hazardous waste and of contamination in the workplace. The version with coated 2 litre borosilicate glass bottle allows the user to work with aggressive disinfectants like chlorine bleach.

- Powerful and long-lasting chemistry diaphragm pump for universal economical use
- Extremely compact, space saving and low noise and thus the ideal tool in the workplace
- Easy operation due to electronically adjustable suction power via touch panel, for strong or sensitive suction
- Autoclavable collection bottle designed to reduce aerosol and foam formation
- Ready to accept a second aspiration hand controller (VHC) to support two users
- Non-contact sensor for electronic monitoring of the liquid level in the collection bottle
- Disinfection routine for the suction tubing for drawing in disinfectant after switching off the pump
- For professional work and a perfect fit for required safety protocols

Fluid aspiration system complete with powerful chemistry diaphragm pump, collection bottle, adjustable suction power control via touch panel, non-contact liquid level sensor, quick couplings (4 l PP version), aspiration hand set VHC and protection filter, ready for use with manual.
Pumps are supplied as standard with an EU plug. Please specify a UK plug when ordering and this will be supplied at no extra cost.

Model	BioChem-VacuuCenter BVC professional	BioChem-VacuuCenter BVC professional G
Final pressure of vacuum pump (mbar)	150	
Protection class	IP 40	
Vacuum pump	ME 1C	
Weight (kg)	7,3	

Description	W×D×H (mm)	Pk	Cat. No.
BioChem-VacuuCenter BVC professional (with UK-plug): 4 l PP collection flask, with self-closing quick couplings made of PVDF, completely autoclavable together with protection filter 0,2 µ	408×194× 500	1	**181-0420**
BioChem-VacuuCenter BVC professional G (with UK-plug): With 2 l borosilicate glass collection flask with splinter-proof coating and leakage protection, with high chemical resistance for aggressive disinfectants like chlorine bleach; completely autoclavable together with 0,2 µ protection filter	408×194× 500	1	**VACU727502**

Diaphragm vacuum pumps and compressors, LABOPORT®
KNF

Single- or dual-headed, dry running diaphragm pumps for a wide variety of applications in laboratories. They transfer and evacuate without affecting the media, i.e. media remains uncontaminated. The pump includes a PTFE-coated diaphragm with patented tension optimisation, which allows the pump to be smaller and prolongs the service life of the diaphragm.

- 100% oil-free transfer, evacuation and compression, so media remains uncontaminated
- Version available for neutral to mildly aggressive gases and vapours
- Maintenance-free, quiet running
- Environmentally friendly; the pumps use no water and so produce no contaminated waste water
- Resistant materials for pump head parts coming into contact with media

Material for pump head parts coming into contact with media:

KN: PPS pump head; EDPM diaphragm; FFPM valves

KT: PPS pump head; PTFE-coated diaphragm; FFPM valves

AN: Aluminium pump head; CR diaphragm; NBR valves

AT: Aluminium pump head; PTFE-coated diaphragm; FFPM valves

AV: Aluminium pump head; FPM diaphragm; inox valves

SN: Inox pump head; CR diaphragm; inox valves

ST: Inox pump head; PTFE-coated diaphragm; inox valves

Ordering information: Please visit our website for details on the full range of LABOPORT pumps.

Model	Flow rate (l/min)	Working overpressure (bar)	Final pressure (abs.) (mbar)	Protection class	W×D×H (mm)	Weight (kg)
KN pumps						
N 811 KN.45.18	11,5	2,0	240	IP 20	90×187×157	2,5
N 811 KN.18						2,5
N 816.1.2 KN.18	30	0,5	100		102×361×141	3,95
N 816.1.2 KN.45.18					90×361×141	
N 816.3 KN.18	16		15			
N 816.3 KN.45.18						
N 838.1.2 KN.18	37		100		110×212×402	6,8
N 838.3 KN.18	22		12			
N 86 KN.18	6	2,4	100		90×164×141	1,9

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KT pumps						
N 811 KT.45.18	5.5	2,0	160	IP 20	90×187×157	2,5
N 811 KT.18	11,5		240			
N 816.1.2 KT.18	30	0,5	160		102×361×141	3,95
N 816.3 KT.45.18					90×361×141	
N 816.3 KT.18	16		20			
N 816.3 KT.45.18						
N 838.1.2 KT.18	37		150		110×212×402	6,8
N 838.3 KT.18	22		15			
N 86 KT.18	5,5	2,5	100		90×164×141	1,9
AN pumps						
N 022 AN.18	15	4,0	100	IP 20	145×203×194	4
N 026.1.2 AN.18	39	2,0			185×254×192	5,8
N 026.3 AN.18	22	-	20		185×243×192	
N 035.1.2 AN.18	55	4,0	100		250×321×222	11,3
N 035.3 AN.18	30	-	13		250×323×222	11,3
N 035.3 AN.18 IP 44				IP 44	250×351×222	
N 035.1.2 AN.18 IP 44	55	4,0	100		250×349×222	
N 035 AN.18 IP 20	30			IP 20	198×280×255	8,5
N 035 AN.18 IP 44		-	13	IP 44	143×265×254	8,2
N 035 AV.18		2,0	100		198×280×255	
N 145.1.2 AN.18	55	7,0			250×350×261	15
N 145 AN.18	30			IP 44	210×325×286	12
N 820.3 AN.18	22	1,0	8	IP 44	110×304×204	9,3
N 820 AN.18			100		110×261×204	7,1
AT pumps						
N 022 AT.18	13	4,0	100	IP 20	145×203×194	4
N 026.1.2 AT.18	31	2,0			185×254×192	5,8
N 026.3 AT.18	18	-	25		185×243×192	5,8
N 035.1.2 AT.18	50	4,0	100		250×321×222	11,3
N 035.3 AT.18	27	-	20		250×323×222	
N 035.3 AT.18 IP 20						
N 035.1.2 AT.18 IP 44	50	4,0	100	IP 44	250×349×222	
N 035 AT.18 IP 44	27				198×280×255	8,2
N 035 AT. 18					143×265×254	
N 145 1.2 AT.18	50	7,0			250×350×261	15
N 145 AT.18	27				210×325×286	12
N 820.3 AT.18	20	1,0	8		110×304×204	9,3
N 820 AT.18			100		110×261×204	7,1

Model	Pk	Cat. No.
KN pumps		
N 811 KN 45.18 with fine control valve and vacuum gauge	1	**181-3913**
N 811 KN.18	1	**181-3284**
N 816.1.2 KN.18	1	**181-3136**
N 816.1.2 KN.45.18	1	**181-3914**
N 816.3 KN.18	1	**181-3134**
N 816.3 KN 45.18	1	**181-3916**
N 838.1.2 KN.18	1	**181-0392**
N 838.3 KN.18	1	**181-0394**
N 86 KN.18	1	**181-3281**
KT pumps		
N 811 KT 45.18	1	**181-0391**
N 811 KT.18	1	**181-3283**
N 816.1.2 KT.18	1	**181-3109**
N 816.1.2 KT 45.18	1	**181-3915**
N 816.3 KT.18	1	**181-3135**
N 816.3 KT 45.18	1	**181-3917**
N 838.1.2 KT.18	1	**181-0393**
N 838.3 KT.18	1	**181-0395**
N 86 KT.18	1	**181-3282**
AN pumps		
N 022 AN.18	1	**181-3212**
N 026.1.2 AN.18	1	**181-3251**
N 026.3 AN.18	1	**181-3222**
N 035.1.2 AN.18	1	**181-3261**
N 035.3 AN.18	1	**181-3231**
N 035.3 AN.18 IP44	1	**181-0343**
N 035.1.2 AN.18 IP44	1	**181-0345**
N 035 AN.18 IP 20	1	**181-3233**
N 035 AN.18 IP 44	1	**181-0011**
N 035 AV.18	1	**181-0348**
N 145.1.2 AN.18	1	**181-3271**
N 145 AN.18	1	**181-3241**
N 820.3 AN.18	1	**181-3293**
N 820 AN.18	1	**181-3291**

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Model	Pk	Cat. No.
AT pumps		
N 022 AT.18	1	**181-3215**
N 026.1.2 AT.18	1	**181-3252**
N 026.3 AT.18	1	**181-3225**
N 035.1.2 AT.18	1	**181-3262**
N 035.3 AT.18	1	**181-3232**
N 035.3 AT.18 IP 20	1	**181-0344**
N 035.1.2 AT.18 IP 44	1	**181-0346**
N 035 AT.18 IP 44	1	**181-0347**
N 035 AT. 18	1	**181-3234**
N 145 1.2 AT.18	1	**181-3272**
N 145 AT.18	1	**181-0349**
N 820.3 AT.18	1	**181-3294**
N 820 AT.18	1	**181-3292**

Flow rate at atmospheric pressure

Vacuum pumps, self-drying, LABOPORT® SD
KNF

Dry running, chemically resistant, two-stage displacement pumps for neutral, highly aggressive and corrosive gases and vapours and a constant vacuum. Uncontaminated transfer of process gas. The pumps are suitable for a wide range of applications in laboratories, especially where a clean vacuum is needed and moist gases must be evacuated, e.g. vacuum drying in vacuum drying ovens (for drying or heat-treating substances and components) or in vapour sterilisers for sterilising instruments, containers, filters and textiles. Because of its high resistance to aggressive media, the pump has universal applications. The drying system makes it possible to blow condensate liquid at high speed out of the pump heads during evacuation. The vacuum in the vacuum chamber remains constant. The drying cycle can be adapted individually to the requirements of a process by means of three variables. The pumps achieve a better vacuum after drying and evacuate significantly more quickly than pumps without a drying system.

- High vapour and condensate tolerance
- Chemically resistant, suitable for use with very aggressive and corrosive gases and vapours
- Maintenance-free
- Environmentally friendly; the pumps use no water and so produce no contaminated waste water

Ordering information: Includes ready-to-connect, chemically resistant diaphragm vacuum pump with a mains switch, mains cable, fully automatic self-drying system and PTFE hose attachments for hoses with 12 mm internal diameter.

Model	N 820.3 FT.40.18	N 840.3 FT.40.18	N 842.3 FT 40.18	N 860.3 FT.40.18
Flow rate (l/min)	20	34		60
Working overpressure (bar)	1,0			
Final pressure (abs.) (mbar)	10		4	
Protection class	IP 44			
W×D×H (mm)	189×341×239	189×341×242	291×331×278	177×312×220
Weight (kg)	12,9	13,7	14,8	9,6

Model	Pk	Cat. No.
N 820.3 FT.40.18	1	**181-3471**
N 840.3 FT.40.18	1	**181-3472**
N 842.3 FT 40.18	1	**181-3473**
N 860.3 FT.40.18	1	**181-3477**

Flow rate at atmospheric pressure

Chemically resistant vacuum pumps, LABOPORT®
KNF

Single- or dual-head chemically resistant, dry running diaphragm pumps for a wide range of laboratory applications. They transfer and evacuate without affecting the media, i.e. media remains uncontaminated. Includes diaphragm with patented tension optimisation, which allows the pump size to be smaller and extends the service life of the diaphragm. All parts that come into contact with the media are comprised of chemically resistant fluorinated plastics.

- 100% oil-free displacement, so media cannot be contaminated by transfer, evacuation or compression
- High resistance to vapours and condensates
- Chemically resistant, suitable for use with very aggressive and corrosive gases and vapours
- Maintenance-free, environmentally friendly; the pumps use no water and so produce no contaminated waste water

Ordering information: Includes chemically resistant diaphragm pump with thermal circuit breaker, mains fuse, connecting cable and PTFE hose attachments with for hoses with 10 mm internal diameter.

Model	N 810.3 FT.18	N 810 FT.18	N 820 FT.18	N 840.3 FT.18	N 840.1.2 FT.18	N 840 FT.18
Flow rate (l/min)	10		20	34	60	34

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Working overpressure (bar)	1,0					
Final pressure (abs.) (mbar)	8	100		8	90	100
Protection class	IP 44					
W×D×H (mm)	140×281×187	146×256×187	159×268×207	166×341×226	160×341×226	171×297×226
Weight (kg)	6,9	5,9	7,1	12,6		10,3

Model	Pk	Cat. No.
N 810.3 FT.18	1	**181-3310**
N 810 FT.18	1	**181-3315**
N 820 FT.18	1	**181-3100**
N 840.3 FT.18	1	**189-0017**
N 840.1.2 FT.18	1	**181-3337**
N 840 FT.18	1	**181-3335**

Flow rate at atmospheric pressure

Compact vacuum pumps for filtration and solid phase extraction
VWR by Vacuubrand

Vacuum filtration is one of the most common applications used for sample preparation in chemistry, microbiology, wastewater control and other analytical processes. The VP 100 and VP 100 C diaphragm pumps offer a compact, high performance and easy to use solution which is perfect for both single and multiple filtrations.

This new development, based on the highly successful technology of the three-stage diaphragm pump series MD 1 and MD 1C, provides a well proven and extraordinary long diaphragm lifetime. The functional, space saving and innovative design with visible top-mounted power switch ensures convenient and quick operation for day-to-day lab work. Robust PTFE diaphragms and valves provide optimum chemical resistance. An optional manual control valve with gauge enables variable fine adjustment of the pumping speed.

- Convenient, quick and simple to use due to the new top-mounted power switch
- Whisper quiet and ultra-low vibration resulting from a new patented motor mounting
- Requires minimal bench top space
- Maintenance-free drive system and proven long diaphragm life
- High chemical resistance (especially VP 100 C)

Model	VP 100	VP 100 C
No. of stages	3	
Flow rate (m^3/h)	0,7	
Vacuum (mbar)	100	

Description	Pk	Cat. No.
Diaphragm pump VP 100 for aqueous filtration and solid phase extraction (UK-plug)	1	**181-0237**
Diaphragm pump VP 100 C - chemically resistant (UK-plug)	1	**181-0240**

Diaphragm pumps
Vacuubrand

MD 4 NT

MZ 2 NT

ME 4 NT

Diaphragm pumps are mechanical vacuum pumps that function without oil. They are easy to operate, use no water and generate neither waste water nor used oil. These pumps are used for evacuating or pumping gases between containers in chemistry or physics laboratories. They are extremely versatile.

- Available in aluminium or chemical versions
- Large selection of final pressure and pump capacities, high pump volume capacities even at low pressures
- Maintenance-free drive unit, constructed for easy maintenance, diaphragm and valves are easy to replace
- Very quiet, low-vibration running
- Optimised service life of diaphragms and valves (normally over 10 000 operating hours)

Aluminium versions

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Parts that come into contact with media are made from aluminium, FPM, PE or PBT or similar. Broad range of vacuum generating applications in the laboratory and in industry with non-aggressive gases, e.g. vacuum filtration, vacuum stream degassing and vacuum impregnation.

- Exceptionally long-lasting FPM valves
- Large cylinder input volume with minimal dead space ensures high input power
- Optimised, extremely flexible FPM double diaphragms with fabric reinforcement; good operating safety and diaphragm service life
- Available as one-, two-, three- or four-stage pumps; please contact VWR for details
- Compact construction

Chemical versions

The gases and vapours that are pumped only come into contact with fluorinated plastics, with outstanding chemical resistance properties. Typical applications include, for example, pumping chemically active vapours.

- Good chemical resistance throughout, from the intake side to the discharge side
- PTFE sandwich membrane and perfluorelastomer or PTFE valves; tough, long-lasting, and easily replaceable
- Metal compartmentation for cylinders to prevent PTFE creep, good final pressure after disassembly, cleaning and reassembly without readjustment
- Available as one-, two-, three- or four-stage pumps; please contact VWR for details
- Compact construction

Delivery information: Includes the pump with switch, cable, plug and operating manual.

Model	No. of stages	Flow rate (l/min)	Flow rate (m^3/h)	Final pressure (abs.) (mbar)	Protection class	Motor output (kW)
Aluminium versions						
MD 1	3	20	1,2	1,5	IP 44	0,08
ME 16	1	200	12	80	IP 20	0,39
Chemical versions						
ME 16C	1	200/215	12,0/12,9	<80	IP 20	0,39
MD 1C	3	20/23	1,2/1,4	1,5	IP 44	0,08

Model	Pk	Cat. No.
Aluminium versions		
MD 1 with UK-plug	1	**181-0016**
ME 16 with UK-plug	1	**181-0045**
Chemical versions		
ME 16C with UK-plug	1	**181-0048**
MD 1C with UK-plug	1	**181-0028**

Chemistry diaphragm pumps and chemistry vacuum systems with ATEX approval

Vacuubrand

Chemistry diaphragm pumps

Chemistry diaphragm pumps in equipment category 2 (e.g. for Zone 1) with ATEX compliance. These pumps are exceptionally well designed for the avoidance of ignition sources. They have good chemical resistance, are oil-free, have no friction surfaces and the suction chamber is hermetically sealed off from the drive unit compartment.

- Motor with flameproof enclosure and integrated, self contained overcurrent and overheating protection for direct 230 V/60 Hz single-phase connection
- Diaphragm pump heads made of anti-static materials
- Chemically resistant: Materials in contact with media; fluorinated plastics, stainless steel, FFKM
- Gas ballast with separate inert gas connection
- Pressure relief valves inside and at the outlet
- Safety membrane technology with the option for inert gas flushing and membrane tear detection

Chemistry vacuum systems

These chemistry vacuum systems offer the advantage of practical, ready to connect delivery because individual components have already been optimised for use together.

- ATEX approved chemistry diaphragm pumps included
- Inlet separator (AK) as particle protection and for collecting liquid droplets
- Emissions condenser (EK) for efficient recovery of solvents to protect the environment and for economical recycling
- Components optimally adapted to one another

Delivery information: The chemistry diaphragm pumps are delivered with switch and 2 m cable (without plug) and operating instructions.
The chemical vacuum systems are delivered fully assembled with the MZ 2C EX or MD 4C EX pump, the pump support, suction precipitator (AK), emissions condenser (EK), switch and 2 m cable (without plug). Customers are responsible for protecting against chips and impacts.

Model	MZ 2C EX	MD 4C EX	MV 10C EX	MZ 2C EX +AK +EK	MD 4C EX +AK +EK
No. of stages	2	3	4	2	3
Flow rate (l/min)	32	62	135	32	62
Flow rate (m^3/h)	1,9	3,7	8,1	1,9	3,7

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Ultimate total vacuum without gas ballast (mbar)	12	3	2	12	3
Final pressure with gas ballast (mbar)	18	10	10	18	10
Connection on pressure side (EX)	Small flange DN 16	Small flange DN 25	Small flange DN 16	Hose nozzle 10 mm	
Connection on suction side (IN)	Small flange DN 16		Small flange DN 25	Small flange DN 16	Small flange DN 25
ATEX approval	Expansion chamber: II 2G IIC T 3 X /outer chamber: II 2G IIB T4 X (Motor: II 2G EEx d IIB T4) with inert gas flushing of the crankcase. Without inert gas flushing: outer chamber II 3G IIB T4 X				
Motor output (kW)	0,15	0,25	0,5	0,15	0,25
W×D×H (mm)	287×337×251	265×440×305	560×430×410	357×308×470	365×600×420
Weight (kg)	21,6	29,3	63,2	24,5	37,4

Model	Pk	Cat. No.
Chemistry diaphragm pumps		
MZ 2C EX	1	**181-1149**
MD 4C EX	1	**181-1151**
MV 10C EX	1	**181-1153**
Chemistry vacuum systems		
MZ 2C EX +AK +EK	1	**181-1150**
MD 4C EX +AK +EK	1	**181-1152**

Diaphragm Pumps, Portable, Capex 8 C

Ideal for the transfer of air and gas in laboratory environments and also as a replacement for water jet pumps for applications such as vacuum or pressure filtration and sampling. The pump is supplied in a tough alloy case with an integral carrying handle and 8 mm diameter inlet and outlet connectors. Each unit comes complete with an integral filter and silencer.

- Designed for continuous operation
- Maintenance-free, quiet running
- Oil-free pumping, so media is not contaminated
- Environmentally friendly, the pump uses no water so no contaminated waste water is produced

Ordering information: Supplied with a mains cable, inlet and outlet connectors, however it is not supplied with a vacuum gauge as shown.

Model	Capex 8C
Flow rate (l/min)	8,0
Vacuum (mbar)	240
W×D×H (mm)	136×265×212
Weight (kg)	3,75

Description	Pk	Cat. No.
Capex 8C	1	**181-0005**

Diaphragm pumps

The Dymax 30 is a low cost unit incorporating a polycarbonate case, splash-proof switch, integral filter and silencer. It is ideal for use in education and general purpose applications such as aeration and vacuum filtration.

Vacuum tweezer option

Pump as above but supplied with a hand piece and a set of suction probes, ideal for handling small delicate objects such as gold leaf. The integral filter is washable so it is also ideal for precision cleaning.

- Contamination-free pumping of air and gas
- Quiet operation and easy to maintain

Model	Dymax 30 tweezer option	Dymax 30
Flow rate (l/min)	5	
Vacuum (mbar)	520	
W×D×H (mm)	210×151×127	210×151×126
Weight (kg)	2	1,9

Model	Pk	Cat. No.
Dymax 30 tweezer option	1	**181-0007**
Dymax 30	1	**181-0006**

PALL Life Sciences

Vacuum/pressure pump

This combined vacuum pump and compressed air supply is guaranteed oil and dust-free and helps to keep the entire laboratory spotlessly clean.

- Reduced risk of contamination; air seal between the pump and cylinder guarantees an oil- and dust-free vacuum/compressed air supply
- Features a diaphragm for cleaner, quieter operation
- Compact design frees up space in the laboratory

Vacuum (mbar)	813
Final pressure (abs.) (mbar)	4200
Connection on pressure side (EX)	Hose barb 9,52 mm
Diaphragms	Neoprene
Filter elements	PU foam
Current consumption (A)	1,9 (50 Hz), 2,2 (60 Hz)
Power connection	230 V/50 - 60 Hz
W×D×H (mm)	200×165×275
Weight (kg)	6,54
Motor	1/8 HP
Pump housing	Aluminium die-casting
Seals	Stainless steel

Description	Pk	Cat. No.
Vacuum/pressure pump	1	**516-7546**

Vacuum pumps, V-700

Büchi

The V-700 vacuum pump is a chemically resistant PTFE diaphragm pump designed for use with all gases and vapours typically associated in the lab. With a flow rate of 1,8 m^3/h and an ultimate vacuum of below 10 mbar, it covers a wide range of classical laboratory applications and is optimally suited for work with a rotary evaporator. Other typical applications include the evacuation of drying ovens or vacuum centrifuges and the generation of vacuum for filtration purposes or for conveying liquids.

The unique window head allows for visual inspection of the diaphragm making it easy to check for solvent build-up or detection of contamination. Sophisticated soundproofing with enclosed housing and counterbalancing minimise noise and vibration. Integrated gas ballast for drying the diaphragms during operation ensures consistently high flow rates. Virtually maintenance-free, easy to access diaphragms, compact design and solid workmanship, with integrated carrying handle. Strictly axial movement of the diaphragm increases service life.

- Unique glass window head
- Single-stroke speed control
- Chemically resistant PTFE membranes

V-700

The ready-to-use design includes a V-700 vacuum pump, a sound suppressor, 2 metre hose, power cord and operating manual.

V-700 system with manual vacuum control

The air flow is regulated by a needle valve and this sets the vacuum, which is shown on a manual display. A Woulff bottle is recommended (is included in the delivery).

V-700 Advanced system

A complete system comprising a V-700 vacuum pump (as above) complete with the V-850 vacuum controller. The V-850 has easy operation with control knob and large graphic display screen. Intuitive menu guidance and a selection of 6 languages. The V-700 Advanced is the ideal pump system for use with rotary evaporators as it includes a solvent database with the 43 most used solvents for convenient setting of distillation conditions. The solvent library is expandable by customised solvents and simplifies the parameter selection. After the selection of the solvent used, the related parameters for optimal distillation are entered as default values depending on the bath temperature. Other solvent data can be conveniently downloaded from the Büchi website. There is a timer function for process termination after the pre-specified time. Also included is the EasyVac module which automatically finds the start point and optimally regulates the pressure until the distillation process is complete.

V-850 vacuum controller:
- Measuring range 1400 - 0 mbar
- Control range 1100 - 1 mbar

V-700 Professional system

The Professional system covers all needs and is a perfect combination of the vacuum controller V-855 with the vacuum pump V-700. If complex requirements of vacuum control, automatic distillations and programmable processes have to be fulfilled, the Professional system is the optimal choice. The vacuum controller can be mounted directly onto the V-700 vacuum system. The speed control requires no additional valve unit. The ready-to-use equipment includes the V-700 vacuum pump, the V-855 vacuum controller and a Woulff bottle.

V-700 EasyVac system

The EasyVac vacuum module for the vacuum pump V-700 is a new concept for vacuum regulation during the distillation of individual solvents and solvent mixtures until dry. More than just simple: The process is started with the press of a button and automatically finds the starting point for the distillation, regulates the pressure to suit the vapour pressure curve and can determine the end point for a distillation. The speed control requires no additional valve unit. The ready-to-use package includes a Woulff bottle.

Model	V-700	V-700 Advanced	V-700 Professional	V-700 EasyVac
Vacuum pump	chemically resistent oil free diaphragm pump			
No. of stages	2			
Vacuum controller	-	V-850 (Advanced)	V-855 (Professional)	V-801 EasyVac
Flow rate (l/min)	30			
Final pressure (abs.) (mbar)	<10			
Ultimate total vacuum without gas ballast (mbar)				
Final pressure with gas ballast (mbar)	<24			
Ultimate vacuum without/with gas ballast (mbar)				
Protection class	IP 34			
Diaphragms	PTFE			
Electrical supply (W)	210			
Power connection	100 - 240 V/50 - 60 Hz			
Motor	brushless DC motor			
W×D×H (mm)	180×206×275			
Weight (kg)	5,3			

Description	Pk	Cat. No.
V-700 system		
Vacuum pump V-700	1	**531-0136**
V-700 vacuum pump with secondary condenser	1	**531-0137**
V-700 vacuum pump with cold trap	1	**531-0230**

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Description	Pk	Cat. No.
V-700 Advanced system		
Vacuum system V-700 Advanced	1	**531-0231**
V-700 Advanced vacuum system with secondary condenser	1	**531-0141**
V-700 Advanced vacuum system with cold trap	1	**531-1878**
V-700 Professional system		
V-700 Professional vacuum system	1	**531-1879**
V-700 Professional vacuum system with secondary condenser	1	**531-0143**
V-700 Professional vacuum system with cold trap	1	**531-1880**
V-700 EasyVac system		
V-700 EasyVac vacuum system	1	**531-1881**
V-700 EasyVac vacuum system with secondary condenser	1	**531-0145**
V-700 EasyVac vacuum system with cold trap	1	**531-1882**

Rotary vane pumps
Vacuubrand

One- and two-stage rotary vane pumps with built-in oil pump and powerful gas ballast device for outstanding water vapour tolerance. Pumps are powerful yet compact and lightweight.

- High pumping capacity, even at low pressures
- High vapour tolerance to water and solvents due to the large amount of gas ballast (up to 10% of the pumping capacity), quiet running and very good final pressure even with gas ballast
- Vacuum-tight oil circuit at shutdown to prevent corrosion
- Long oil change intervals due to large usable oil volume
- Smallest dimensions, low weight, telescopic construction makes for easy maintenance

Delivery information: Includes the oil filled pump with switch, thermal motor protection, 2 metre long cable with plug, clamping and centering ring on the suction and discharge ports, dirt trap and operating manual. The pumps packages are supplied with an EU plug but a UK power cord 181-0250 could be supplied free of charge.

Model	Max. pump capacity (m^3/h)	No. of stages	Partial final pressure without gas ballast (mbar)	Protection class	Total final pressure with gas ballast (mbar)	Total final pressure without gas ballast (mbar)	Weight (kg)	W×D×H (mm)
Pumps only								
RE 2.5	2,3	1	3×10^{-1}	IP 40	8×10^{-1}	3×10^{-1}	10,2	308×125×190
RE 6	5.7/6.8		1×10^{-1}		6×10^{-1}	1×10^{-1}	15,3	370×142×207
RE 16	16,6						25,2	505×160×232
RZ 2.5	2,3	2	4×10^{-4}		1×10^{-1}	2×10^{-3}	11,4	316×125×190
RZ 6	5,7						16,4	370×142×207
RZ 16	16,6						29	505×160×232
Pumps packages								
RZ 2.5	2,3	2	4×10^{-4}	IP 40	1×10^{-1}	2×10^{-3}	11,4	316×125×190
RZ 6	5,7						16,4	370×142×207

Description	Pk	Cat. No.
Pumps only		
RE 2.5 pump (UK-plug)	1	**181-1578**
RE 6 pump (UK-plug)	1	**181-1648**
RE 16 pump (UK-plug)	1	**181-1517**
RZ 2.5 pump (UK-plug)	1	**181-1579**
RZ 6 pump (UK-plug)	1	**181-1615**
RZ 16 pump (UK-plug)	1	**181-1610**
Pumps packages		
RZ 2.5 package: RZ 2.5 pump combined with oil mist filter (FO) and shut valve VS 16 (EU-plug)	1	**181-1588**
RZ 6 package: RZ 6 pump combined with oil mist filter (FO) and shut valve VS 16 (EU-plug)	1	**181-1126**

Chemistry hybrid pump, RC 6
Vacuubrand

This chemistry hybrid pump is the combination of a two-stage rotary vane pump and a chemistry diaphragm pump made from corrosion resistant materials, providing maximum protection from corrosion. The diaphragm pump constantly empties the oil box of the rotary vane pump to prevent condensation problems in the oil-tight section when working with many condensing and corrosive vapours. The pump offers the advantage of a chemistry diaphragm pump and the low final vacuum of a two-stage rotary vane pump. Typical application areas are freeze drying, distillation, vacuum drying cabinets, evaporating centrifuges and concentrators (centrifugal evaporators).

- Vacuum capacity of a two-stage rotary vane pump; high pump capacity and low final vacuum
- Very low susceptibility to corrosion when working with aggressive vapours
- Extended oil change and service intervals drastically reduce waste oil generation
- Simple exhaust-side condensation with the optional exhaust waste gas condenser enables almost 100% solvent recovery
- Economical; in most cases it can be operated without a cold trap

Includes the pump with switch, thermal motor protection, 2 metre cable with plug, clamping and centering ring on the intake port, dirt trap, operating manual and one bottle of pump oil.

Connection on pressure side	Hose nozzle DN 10
Connection on suction side	Small flange DN 16
Max. pump capacity (m^3/h)	5,9/6,9
Motor output (kW)	0,37
Oil capacity min./max. (l)	0,34/0,53
Partial final pressure without gas ballast (mbar)	4×10^{-4}
Protection class	IP 40
Total final pressure with gas ballast (mbar)	$1 - 10^{-2}$
Total final pressure without gas ballast (mbar)	2×10^{-3}
Weight (kg)	24,2
W×D×H (mm)	305×510×230

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Description	Pk	Cat. No.
RC 6 pump with UK-plug	1	**181-1616**

Oils for rotary vane pumps

Vacuubrand

Rotary vane pump oil, B

Rotary vane pump oil, B has excellent viscosity characteristics and low vapour pressure. Its exceptional chemical resistance, more stable behaviour when pumping oxidants, acid and alkaline vapours, and the fact that it is better tolerated on contact with skin, sets this oil apart from conventional mineral oils. Even after continuous operation for several weeks and months, the oil ensures the pressure is maintained constantly. Used for priming all RE/RZ series pumps.

Rotary vane pump oil, K 8

Rotary vane pump oil, K 8 is a special oil that is intended specifically for extracting acid vapours. This oil is highly hygroscopic, so its usefulness for pumping water vapour is limited. The alkaline corrosion protection contained in this oil is used up during operation. It is therefore necessary to change the oil on a regular basis, depending on the type and quantity of the vapours. When the pump is shut down for a prolonged period, the oil must be changed.

Silicone oil, SI 2

Silicone oil, SI 2 is designed to be used when extremely high durability is required. Because of its chemical composition, the oil is not affected by certain aggressive gases (particularly chlorine and hydrogen chloride) or solvent-containing vapours. It is also resistant to most acids and acid solutions.

- Low vapour pressure even at high temperatures
- Outstanding lubricating properties
- Low oil backflow
- Good durability, resistance to cracking
- Good resistance to oxidation

Description	Pk	Cat. No.
Rotary vane vacuum pump oil, B	1 l	**181-1241**
Rotary vane vacuum pump oil, B	5 l	**181-1242**
Rotary vane vacuum pump oil, B	20 l	**181-1243**
Rotary vane vacuum pump oil, K 8	1 l	**181-1251**
Rotary vane vacuum pump oil, K 8	5 l	**181-1252**
Rotary vane vacuum pump oil, K 8	20 l	**181-1253**
Silicone oil, SI 2	1 l	**181-1261**
Silicone oil, SI 2	5 l	**181-1263**

Chemically resistant vacuum system for distillation, VP 8 vac

This vacuum system is especially suitable for controlling processes in a rotary evaporator. The patented, closed system arrangement enables gentle distillation and high recovery rates of solvents even with low-boiling points. Ideal for use with the VWR Collection RV 8 and RV 10 rotary evaporators.

- Gentle distillation due to a closed system
- Reliable control of the evaporation process
- High degree of solvent recovery
- The vacuum pump is gas-tight, 100% oil-free, maintenance-free and quiet
- Environmentally friendly

Delivery information: Includes the chemically resistant vacuum pump, base plate, separator, condenser, fine tuning valve, digital vacuum gauge, safety and venting valve, mains switch and mains cable.

Model	VP 8 vac
Flow rate (l/min)	20
Working overpressure (bar)	1
Vacuum (mbar)	8
W×D×H (mm)	307×199×481
Weight (kg)	14,5

Description	Pk	Cat. No.
Manual vacuum system VP 8 vac, UK-plug	1	**181-0157**

* Flow rate at atmospheric pressure

Vacuum system for evaporation and solvent recovery, VP 10 Autovac

The self-regulated vacuum system VP 10 Autovac is especially suitable for vacuum distillation. The pump system provides optimal and trouble free solvent stripping and creates a fully-automatic distillation process without giving any attention to fraction quantities, manual adjustment or continuous regulation. The outstanding design of the VP 10 Autovac utilises solvent flow to automatically regulate the diaphragm pump vacuum level.

After reaching the operating pressure, the chemical resistant system VP 10 Autovac automatically moderates vacuum for each solvent group and distills any solvent/volume mixture without composition knowledge. This is done without interruption despite the different fractions. These are collected together on the pressure side in the emission condenser. The VP 10 Autovac operates without expensive controller technology by directly implementing the physical principles of the condensation process. The solvent itself provides the information for the automatic pressure control.

All wetted parts inside the integrated diaphragm pump are made from high quality PTFE, PEEK, PP materials and clear plastic coated glassware to be able to handle acidic or basic solvents and aggressive solvent vapours. The product is quickly separated without loss in a single cycle of evaporation due to a condensation process at the optimal boiling point.

- Automatic distillation
- Collection flask at atmosphere pressure
- Easy connection to rotary evaporators
- The solvent recovery system of the VP 10 Autovac reduces the emissions and is environmentally friendly

Model	Autovac VP 10
Flow rate (l/min)	2,3 - 2,5
Flow rate (m^3/h)	38 – 41
Working overpressure (bar)	1
Final pressure (abs.) (mbar)	10
Protection class	IP 42
Connection on pressure side (EX)	Hose nozzle DN 8 for hose - inside Ø 8 mm
Connection on suction side (IN)	GL 14 with squeezing ring 10 for hose - outside Ø 10 mm or hose nozzle DN 8 for hose - inside Ø 8 mm
Motor	230 V, 50/60 Hz
W×D×H (mm)	310×270×490
Weight (kg)	18,8

Description	Pk	Cat. No.
Vacuum system for evaporation and solvent recovery, Autovac VP 10	1	**181-0311**

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Description	Pk	Cat. No.
Accessories		
Maintenance kit	1	**181-0315**
Vacuum sensor	1	**181-0316**

Vacuum systems, chemically resistant, LABOPORT®
KNF

The modular SH and SC systems are equipped with a chemically resistant diaphragm pump. The vacuum systems can be used in a wide range of laboratory tasks wherever a clean and constant vacuum is needed. There is a selection of vacuum pumps with different capacities and different modular system components to match any laboratory use.

SH systems

Equipped with a suction side separator and pressure side condenser.

- Chemically resistant, and therefore suitable for use with very aggressive and corrosive gases and vapours
- High vapour and condensate tolerance
- Controlled solvent recovery by a high performance condenser (pressure side)
- Particles trapped in the system (suction side)

SC systems

The SC systems share all of the above features, but are also equipped with an automatic vacuum regulator.

- Automatic vacuum regulation

Ordering information: SH vacuum systems are delivered fully assembled with chemically resistant diaphragm vacuum pump, base plate, separator (suction side), condenser (pressure side) and tubing. The SC vacuum system consists of the chemically resistant diaphragm vacuum pump, base plate, separator (suction side), condenser (pressure side), vacuum controller with control unit, wiring and tubing, fully assembled.

Model	SC 810	SC 820	SC 840	SC 842	SH 810	SH 820	SH 840
Vacuum pump	N 810.3 FT.18	N 820.3 FT.18	N 840.3 FT.18	N 842.3 FT.18	N 810.3 FT.18	N 820.3 FT.18	N 840.3 FT.18
Flow rate (l/min)	10	20	34		10	20	34
Working overpressure (bar)	1,0						
Vacuum (mbar)	8			2	8		
W×D×H (mm)	289×397×506		289×417×506		227×397×506		227×417×506
Weight (kg)	13,6	16	19,3	20,1	10,1	12,5	15,8

Model	Pk	Cat. No.
SC 810	1	**181-3421**
SC 820	1	**181-3422**
SC 840	1	**181-3423**
SC 842	1	**181-3424**
SH 810	1	**181-3411**
SH 820	1	**181-3412**
SH 840	1	**181-3413**

Flow rate at atmospheric pressure

Vacuum pump system with remote control and PC control, SC 920
KNF

The SC 920 vacuum pump system is equipped with wireless remote control. This feature eliminates the need to set up the system near the process apparatus and provides previously unheard-of flexibility in the laboratory. The system can now be tucked away inside laboratory furniture or placed underneath a fume hood without the hassle of running cables.

A wireless remote controller with intuitive user guidance provides a convenient way to control the vacuum pump system and monitor ongoing processes. Four operation modes are available: Evacuate, Pressure control, Automatic (the system independently determines the sample's vapour pressure), and Individual pressure function, where pressure is controlled according to the user's custom pressure profile. The user can switch from any of these modes to manual process control at any time.

The vacuum pump system consists of a vacuum pump with electronic control, a suction-side separator, a high performance condenser with separator on the pressure side, and a hand terminal for remote control. Software that permits PC based control over the vacuum pump system is also included. One interesting feature is the ability to save pressure curves and retrieve them at a later time.

- Intelligent control; a pressure sensor measures the actual pressure in the system several times per second, and a microprocessor monitors any pressure drop over time. The pump speed is constantly adapted according to this information
- Control via PC
- Short process times made possible by intelligent pressure control and the pump's patented diaphragm stabilisation system

Flow rate (l/min)	20
Vacuum (mbar)	2
Hose connection (mm)	Pneumatic: ID 10 / For coolants: ID 8
Current consumption (A)	Max. 1,7

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Power connection	100 - 240 VAC, 50 - 60 Hz
W×D×H (mm)	366×294×423
Weight (kg)	15

Description	Pk	Cat. No.
Vacuum pump system SC 920	1	**181-0247**

Chemistry vacuum systems
Vacuubrand

MZ 2C NT + 2AK

MZ 2C NT + AK + EK

MZ 2C NT + AK + M + D

These chemistry vacuum systems can be used in a wide range of applications for evacuating or moving gases and vapours between containers in chemistry and physics laboratories, e.g. as an alternative to water jet pumps and rotary vane pumps. Compact construction, very quiet running, long service life; diaphragm and valves are very easy to replace. Oil-free vacuum.

- Includes chemistry diaphragm pump with high chemical resistance (parts in contact with media are made from PTFE compounds and similar)
- High pump volume capacity even at low pressures
- Standard gas ballast valve for working with condensates
- Solvent recovery almost 100% with exhaust waste vapour condenser
- Simple manual control

Model MZ 2C NT + 2 AK

Comprises an MZ 2C NT chemistry diaphragm pump, mounted on pump support, suction-side separator (AK) as particle protection and for collecting liquid droplets, plus pressure-side separator (AK) for collecting condensation from the pumped solvent vapours and to prevent backflow of condensates.

Model MZ 2C NT + AK + EK

Includes an MZ 2C NT chemistry diaphragm pump, mounted on pump support, suction-side separator (AK) as particle protection and for collecting liquid droplets, and insulated exhaust waste vapour condenser (EK) for effective recovery of solvents to protect the environment and for economical recycling.

Model MC 2C NT + AK SYNCHRO + EK

This chemistry vacuum system enables two vacuum systems to be operated simultaneously by a single vacuum pump. Comprises an MZ 2C NT chemistry diaphragm pump, mounted on pump support, suction-side separator (AK) as particle protection and for collecting liquid droplets. With pressure-side, insulated exhaust waste vapour condenser (EK) for effective recovery of solvents to protect the environment and for economical recycling. Includes dual manual control and non-return valves to prevent processes from interfering with each other.

Model MC 2C NT + 2 AK + M + D

MC 2 C NT chemistry diaphragm pump with 2 AK separators, manometer and flow control valve.

Model MD 1C + AK + EK

Comprises a chemistry diaphragm pump, MD 1C, mounted on pump support, suction-side separator (AK) as particle protection and to collect liquid droplets, and insulated exhaust waste vapour condenser (EK) for effective recovery of solvents to protect the environment and for economical recycling.

Model MD 4C NT + AK +EK

Comprises an MD 4C NT chemistry diaphragm pump, mounted on pump support, suction-side separator (AK) as particle protection and for collecting liquid droplets, and insulated exhaust waste vapour condenser (EK) for effective recovery of solvents to protect the environment and for economical recycling.

Model MD 4C NT + AK SYNCHRO + EK

This chemistry vacuum system enables two vacuum systems to be operated simultaneously by a single vacuum pump. Comprises a chemistry diaphragm pump, MD 4C, mounted on pump support, suction-side separator (AK) as particle protection and to collect liquid droplets. With pressure-side, insulated exhaust waste vapour condenser (EK) for effective recovery of solvents to protect the environment and for economical recycling. Includes dual manual control and non-return valves to prevent processes from interfering with each other.

Note: Please visit our website for details on the full range of Vacuubrand chemistry vacuum systems.

Model	MZ 2C NT + 2 AK	MZ 2C NT + AK + EK	MD 4C NT + AK + EK	MD 4C NT + AK SYNCHRO + EK
Vacuum pump	MZ 2C NT		MD 4C NT	
Flow rate (l/min)	33/38		57/63	
Flow rate (m^3/h)	2,0/2,3		3,4/3,8	
Final pressure (abs.) (mbar)	7		1,5	
Final pressure with gas ballast (mbar)	12		3	

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Model	Pk	Cat. No.
MZ 2C NT + 2 AK, UK-plug	1	**181-1043**
MZ 2C NT + AK + EK, UK-plug	1	**181-1045**
MD 4C NT + AK + EK, UK-plug	1	**181-0195**
MD 4C NT + AK SYNCHRO + EK, with EU-plug*	1	**181-1073**

*This system is supplied with an EU plug but a UK power cord 181-0250 will be supplied free of charge.

Chemistry vacuum pump units
Vacuubrand

Models PC 101 NT and PC 201 NT

Cost-effective vacuum pump units with a two- or three-stage chemistry diaphragm pump. The flow rate can be regulated manually with a manometer so that the displacement and thus also the vacuum can be adjusted easily. Compact construction with separator (AK) and insulated emissions condenser (EK) for versatility and mobility.

- Oil-free vacuum to ~1,5 and ~7 mbar
- Includes chemistry diaphragm pumps with high chemical resistance (parts in contact with media are made from PTFE compounds and similar)
- High pump capacity until close to final pressure, low final vacuum
- High solvent recovery
- With analogue vacuum display and manual flow rate control

Ordering information: The product comes with the chemistry vacuum pump unit, suction-side separator, emissions condenser, flow control and vacuum display.

Model	PC 101 NT	PC 201 NT
Vacuum pump	Chemistry diaphragm pump MZ 2C NT	Chemistry diaphragm pump MD 4C NT
Flow rate (l/min)	33	57
Flow rate (m^3/h)	2	3,4
Final pressure (abs.) (mbar)	7	1,5
Final pressure with gas ballast (mbar)	12	3
Connection on pressure side (EX)	Hose nozzle 10 mm	
Connection on suction side (IN)		
Connection for cooling water	2x hose nozzles DN 6	

Model	Pk	Cat. No.
PC 101 NT	1	**181-1048**
PC 201 NT	1	**181-1074**

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Chemistry and synchro system vacuum pump units, PC series

Vacuubrand

All models

Vacuum pump units with a two- or three-stage chemistry diaphragm pump. Compact construction with chemistry diaphragm pump on base plate, separator on suction side made of glass with protective coating (AK), one or two electromagnetic chemistry valves on the suction line, exhaust waste vapour condenser with collecting flask, and one or two CVC 3000 vacuum controllers on the controller support.

Models PC 510 NT and PC 511 NT

These vacuum pump units provide reliable vacuum creation and control for many processes in the chemical laboratory. Ideal for applications with medium vacuum requirements, e.g. for all 'classic' solvents. The PC 511 has a manually controlled port and built-in non-return valves as well as the electronically controlled vacuum port to prevent separate processes from interfering with each other.

- Oil-free vacuum down to 7 mbar
- Equipped with chemistry diaphragm pumps with high chemical resistance (parts in contact with media are made from PTFE compounds and similar)
- Vacuum controller for optimum vacuum control and regulation
- Solenoid valve on the suction line (24 V-)
- Long-lasting valves and diaphragms
- Insulated exhaust waste vapour condenser with intensive separation of all vapour fractions that condense at cold water temperature and atmospheric pressure

Model PC 520 NT

This vacuum pump unit offers exceptional economy, with the capability to regulate two processes electronically at the same time and with two different levels of vacuum by means of two separate vacuum ports and vacuum controllers. Integral non-return valves to prevent the processes from interfering and contaminating each other. Cost-effective, space-saving solution for vacuum control of two independent processes.

- Oil-free vacuum down to 9 mbar
- Equipped with chemistry diaphragm pumps with high chemical resistance (parts in contact with media are made from PTFE compounds and similar)
- With vacuum-controller CVC 3000 for optimum vacuum control and regulation
- Two solenoid valves on the suction line (24 V-)
- Suction-side separator and insulated exhaust waste vapour condenser with shared intensive separation of all vapour fractions that condense at cold water temperature and atmospheric pressure

Models PC 610 NT

These vacuum pump units are ideal for creating and controlling vacuums in chemical laboratories down to 1,5 mbar final vacuum. The three-stage chemistry diaphragm pump achieves a low final vacuum while assuring a higher pump capacity. This ensures exceptional performance in processes involving solvents, which often have high boiling points, and in which a vacuum control must function reliably and reproducibly below 20 mbar.

- Oil-free vacuum down to 2 mbar, high pump capacity
- Equipped with chemistry diaphragm pumps with high chemical resistance (parts in contact with media are made from PTFE compounds and similar)
- Vacuum controller for optimum vacuum control and regulation
- Solenoid valve on the suction line (24 V-)
- Suction-side separator and insulated exhaust waste vapour condenser with shared intensive separation of all vapour fractions that condense at cold water temperature and atmospheric pressure

Model PC 620 NT

This vacuum pump unit has two separate and automatically controllable vacuum connections, each with its own CVC II vacuum controller. This enables automatic vacuum regulation in two independent applications. Built-in non-return valves to prevent processes from interfering or contaminating each other.

- Oil-free vacuum down to 1,5 mbar
- With vacuum-controller CVC 3000 for optimum vacuum control and regulation
- Two solenoid valves on the suction line (24 V-)
- Equipped with chemistry diaphragm pumps with high chemical resistance (parts in contact with media are made from PTFE compounds and similar)
- Insulated exhaust waste vapour condenser with shared intensive separation of all vapour fractions that condense at cold water temperature and atmospheric pressure

Note: Please visit our website for details on the full range of Vacuubrand chemistry and synchro systems.

Model	PC 510 NT	PC 511 NT	PC 520 NT	PC 610 NT
Vacuum controller	CVC 3000			
Flow rate (l/min)	33			57
Flow rate (m^3/h)	2,0			3,4
Ultimate vacuum without/with gas ballast (mbar)	7/12			1,5/3
W×D×H (mm)	419×243×444		435×361×444	419×243×444
Weight (kg)	16,7		17,7	19,9

Model	Pk	Cat. No.
PC 510 NT, UK-plug	1	**181-1660**
PC 511 NT, UK-plug	1	**181-0199**
PC 520 NT, UK plug	1	**181-1056**
PC 610 NT, UK-plug	1	**181-0194**

VARIO chemistry pump units

Vacuubrand

These chemistry pump units offer all the advantages of the VARIO diaphragm pump control engineering plus the solvent recovery option. They achieve a final vacuum as low as 0,66 mbar. They run exceptionally quietly, and without oil. The chemistry diaphragm pump offers outstanding resistance to chemicals. Gases and vapours come into contact only with special chemically resistant plastics. All chemistry pump stands are fully equipped with a vacuum pump and built-in vacuum controller with display unit.

- Optimum control of a specified vacuum
- Faster evacuation times (increased speed)
- Exceptionally low final pressure with patented "TURBO-Mode"
- Rapid process times due to external or internal speed presets
- Separate vacuum controller for measuring vacuum at the appropriate point

PC 3001 VARIO

Offers the most advanced control technology available with adaptive and automatic speed control.

- Process times up to 30% shorter
- Vacuum automatically adapted to the process sequence
- High solvent recovery, almost 100%
- Interactive communication, RS232C serial interface
- Outstanding diaphragm durability, minimal operating and maintenance costs

PC 3002 VARIO

Offers a high suction capacity, even with low aspiration pressures. Final vacuum as low as 7 mbar.

- Gas ballast as standard for working with condensates
- Fuzzy logic enables automatic finding and tracking without user input
- Distillations in equilibrium
- Higher vaporisation rate makes for shorter process times
- High solvent recovery, almost 100%
- RS232C serial interface

PC 3003 VARIO

Provides a low final vacuum of 0.6 mbar. Ideal for solvents with high boiling points or very temperature-sensitive solutions.

- Good suction power, even with low aspiration pressures
- Gas ballast as standard for working with condensates
- Fuzzy logic enables automatic finding and tracking without user input
- Higher vaporisation rate makes for shorter process times
- High solvent recovery, almost 100%
- RS232C serial interface

PC 3004 VARIO

Provides good suction power, even when aspiration pressures are low.

- Gas ballast as standard for working with condensates
- Fuzzy logic enables automatic finding and tracking without user input
- Distillations in equilibrium
- Higher vaporisation rate makes for shorter process times
- High solvent recovery, almost 100%
- RS232C serial interface

Model	PC 3001 VARIO	PC 3002 VARIO	PC 3004 VARIO	PC 3003 VARIO
Vacuum pump	MD 1 C VARIO-SP	MZ 2C NT VARIO	MD 4C NT VARIO	MV 2 NT VARIO
Vacuum controller	CVC 3000			
Flow rate (l/min)	33	47	77	47
Flow rate (m^3/h)	2	2,8	4,6	2,8
Final pressure (abs.) (mbar)		7	1,5	0,5
Final pressure with gas ballast (mbar)	4	12	3	2.0

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Protection class	IP 20	IP 40
Connection on pressure side (EX)	Hose nozzle DN 10	
Connection on suction side (IN)	Hose nozzle DN 6/10	Hose nozzle DN 10
Connection for cooling water	2× hose nozzles DN 6	

Model	Pk	Cat. No.
PC 3001 VARIO (UK-plug)	1	**181-1647**
PC 3002 VARIO (UK-plug)	1	**181-0196**
PC 3004 VARIO (UK-plug)	1	**181-0197**
PC 3003 VARIO (UK-plug)	1	**181-0198**

Chemically resistant vacuum system, VP 2 Autovac
VWR by Vacuubrand

The VP 2 Autovac chemistry pumping unit, with vacuum controller, meets the demands of modern rotary evaporation. The hysteresis-free vacuum control prevents boiling retardation and foaming, therefore ensuring consistently high process safety and an exceptionally high performance even at low vacuum.

This unique control enables detection of vapour pressure and fully automatic adjustment of the vacuum level to the process requirements without any user programming or intervention.

The vacuum controller is easy to operate with clear text menus, selection knob and integrated venting valve. It allows a simple manual intervention during the distillation process. The heart of the extremely compact VP 2 Autovac system is an outstanding chemically resistant diaphragm pump with ultimate vacuum of 2 mbar and excellent 4 mbar in heavy duty operation (gas ballast operation for permanent internal cleaning) for high boiling point solvents. The separator at the inlet, made of glass with a protective coating, retains particles and liquid droplets.

For safe and reproducible operation with complex applications; ten fully configurable programmes can be edited and stored. Each one can be programmed with up to ten time and pressure steps, with control functions such as venting, pumping and vacuum ramp.

- Outstanding chemical resistance and superior vapour tolerance
- Excellent ultimate vacuum even in gas ballast operation – heavy duty operation
- Whisper quiet and ultra low vibration
- Automatic adaptation of the vacuum level throughout the process for unattended operation, and short process times due to hysteresis-free vacuum control
- Controls process vacuum, cooling water and venting to demand

Delivery information: Delivered with three plugs: EU, UK, CH.

Model	VP 2 Autovac
Vacuum controller	automatic
Flow rate (m^3/h)	1,7
Vacuum (mbar)	2

Description	Pk	Cat. No.
Chemistry pumping unit for low up to high boiling point solvents, VP 2 Autovac	1	**181-0159**

VACUU.LAN® local vacuum network

Vacuubrand

The VACUU.LAN local vacuum network connects several workstations to one vacuum pump. The various modules make it possible to connect almost all popular vacuum applications such as rotary evaporators, vacuum concentrators, gel dryers, drying ovens and filter systems. It can be integrated into new laboratory furniture at the time of assembly or subsequently installed in existing laboratories.

- Individual connection configuration, vacuum connections to suit the requirements of the workstation
- Integrated non-return valves to prevent cross-contamination, even with a low pressure differential
- Demand-driven vacuum generation, automatic switching in and out of the vacuum pump
- Flexible design, easily adapted to changes in requirements or in the vacuum connection
- Practical design, integrated installation (installation conduit) or wall-mounting

VACUU.LAN VCL modules

The modules are fully assembled or pre-assembled and ready for connection. Different connecting elements enable integrated installation into newly planned laboratory furniture, subsequent installation in existing laboratories or upgrading of existing older networks. Each VCL module consists of a connecting element and a functional element.

Connecting elements:

The connecting elements are used for mounting on or in the wall and form the connecting element between the vacuum network and the vacuum connector. The selection of the connecting element depends on whether the vacuum network is to be installed in existing laboratories or integrated into newly planned laboratory furniture.

Connecting element, A1: For surface mounting of vacuum lines on the wall or laboratory furniture. Often useful if a lab is to be furnished at a later date.

Connecting element, A5: For concealed integration of vacuum lines into the laboratory furniture. Mounting from the front side.

Connecting element, A2: For upgrading existing older networks. Is mounted on the backs of panels, rear walls of furniture and the like.

Connecting element, A3: For upgrading existing older networks. Is screwed into existing connecting sleeves.

Functional elements:

Manual adjustment module, VCL 01: With flow-adjustment diaphragm for opening and closing the vacuum line and fine-tuning the suction capacity.

Blocking/Adjustment module, VCL 02: With flow-adjustment diaphragm for fine tuning the suction capacity, combined with a ball valve for rapid opening and closing of the vacuum line; the fine tuning is retained.

Shut-off module, VCL K: With ball valve for opening and closing the vacuum line.

Manual control extraction module, VCL AR: Consisting of a manual control unit and a separate vacuum connection for installation in extractors.

Automatic control extraction module, VCL AE: Consists of an automatic control unit with a separate vacuum connection for installation in extractors and a gauge connection for connecting vacuum controller CVC 2" or VNC 1.

Automatic control module, VCL-B 10: VACU with connecting element A1, M35, for wall installation, comprising A1, B1, C3.

Automatic control module, VCL-B 11: VACU with connecting element A5, M35×1.5 comprising A5, B1, C3.

Adjustment/Shut-off/Gauge module, VCL RKM: Like VCL 02, also supplied with bourdon vacuum gauge as vacuum display for rapid reading and trend detection.

Functional element, C3B: Suction line solenoid valve, thread M35×1,5

Description	Pk	Cat. No.
Adjustment/Shut-off/Gauge module VCL RKM, connecting element A1	1	**189-0029**
Adjustment/Shut-off/Gauge module VCL RKM, connecting element A2	1	**181-1503**
Automatic control module VCL-B 10	1	**181-1019**
Automatic control / manual flow control module VCL-B 11, connecting element A5	1	**181-1027**
Automatic adjustment VCL-B 10, connecting element A5	1	**181-1026**
Blocking/Adjustment module VCL 02, connecting element A1	1	**181-1495**
Blocking/Adjustment module VCL 02, connecting element A2	1	**181-1505**
Blocking/Adjustment module VCL 02, connecting element A3	1	**181-1507**
Blocking/Adjustment module VCL 02, connecting element A5	1	**181-1510**
Functional element C3B, thread M35×1.5	1	**181-1010**
Manual adjustment module VCL 01, connecting element A2	1	**181-1492**
Manual adjustment module VCL 01, connecting element A3	1	**181-1493**
Manual adjustment module VCL 01, connecting element A1	1	**181-1494**
Manual adjustment module VCL 01, connecting element A5	1	**181-1509**
Manual control extraction module VCL AR, connecting element A2	1	**181-1489**
Manual control extraction module VCL AR, connecting element A3	1	**181-1490**
Manual control extraction module VCL AR, connecting element A5	1	**181-1488**
Shut-off module VCL K, connecting element A1	1	**189-0028**
Shut-off module VCL K, connecting element A2	1	**181-1499**

Vacuum protection filters, VACU-GUARD™ and VACU-GUARD™ 150

Whatman (GE Healthcare)

VACU-GUARD™ is an easy to use in-line filter device that helps to confine and isolate infectious materials in vacuum systems whilst at the same time protecting both the environment and scientists from harmful pump exhaust fumes. Available with a choice of three chemical traps: Activated carbon, desiccant or molecular sieve, according to the type of protection required. Typical applications - activated carbon removes organic vapours and radioactive particles, desiccant is used for high velocity acidic air streams and molecular sieve is ideal for use with organic and alkaline air streams.

- Designed for in-line use with stepped barb connections for 10 to 12 mm ID hose
- Features hydrophobic PTFE membrane
- Membrane retains 99,99% of airborne particles greater than 0,1 µm

Description	Pore size (µm)	Filtration area (cm^2)	Ø (mm)	Pk	Cat. No.
VACU-GUARD™ in-line disc filter	450	16	50	10	**189-0303**
VACU-GUARD™ in-line disc filter	450	25	60	10	**189-0304**
VACU-GUARD™ 150 in-line capsule filter, activated carbon	-	-	-	1	**189-0300**
VACU-GUARD™ 150 in-line capsule filter, desiccant	-	-	-	1	**189-0301**
VACU-GUARD™ 150 in-line capsule filter, molecular sieve	-	-	-	1	**189-0302**

Vacuum aspiration systems, VACUSAFE Comfort and VACUSAFE Comfort Plus
Integra Biosciences

VACUSAFE

These systems are used for aspirating, removing, or filtering biological or chemical liquids cleanly and efficiently. All functions necessary for this are built into the compact design. With single button operation, the device is ready for use at all times.

Controlled aspiration of liquids from standard laboratory containers such as cuvettes, test tubes, microtitre plates, Petri dishes, roller bottles, etc. Disposal of biological or chemical waste liquids. Filtration of liquids (media) with the aid of filter systems. Compact, user friendly design. Automatic level monitoring (VACUSAFE Comfort Plus) prevents the bottle from overflowing. Two hydrophobic filters, one inside and one outside the pump intake, protect the device and its electronics from moisture. With rotary knob for automatic vacuum control (300 to 600 mbar). Chemically resistant quick couplings (PVDF) for tubing connection (VACUSAFE Comfort Plus). Includes VACUBOY hand operator and 40 mm stainless steel adapter. All parts that come into contact with liquid such as the bottle, lid, tubes, connectors and the hand operator are autoclavable. user friendly dual use; two VACUBOY hand operators can be connected to one VACUSAFE bottle (Y-connector required).

- The vacuum system is always ready for use, fast, easy to operate
- Helps to prevent contamination of the laboratory and the environment
- Latest pump technology, ultra-quiet running
- Pump switches off automatically when vacuum is reached
- Easily transportable, independent of water supply and drainage system

Delivery information: The supplied system includes one 4 litre PP bottle (3 litre glass bottle for 181-0271) with lid and barbed tubing connections PVDF (quick couplings with Comfort Plus models), fill level sensor (Comfort Plus models only), one tubing set with filter, power supply unit, one VACUBOY hand operator and a 40 mm single-channel, stainless steel adapter. Please contact your local VWR sales office for full details on accessories including additional VACUBOY hand operator, Y-connectors, etc.

Description	W×D×H (mm)	Pk	Cat. No.
VACUSAFE Comfort vacuum aspiration system (4 l PP bottle), lid and barbed tubing fittings	180×320×530	1	**391-2094**
VACUSAFE Comfort Plus vacuum aspiration system (3 l glass bottle), lid and quick change tubing couplings (PVDF)	180×320×530	1	**181-0271**
VACUSAFE Comfort Plus vacuum aspiration system (4 l PP bottle), lid and quick change tubing couplings (PVDF)	180×320×530	1	**181-0270**

Benchtop aspiration system, VACUSIP
Integra Biosciences

In the laboratory small volumes of liquid need be disposed of on a daily basis. This includes the removal of excess liquids from reaction tubes, aspiration of supernatant after centrifugation steps, removal of washing solutions from microplates and much more. This is often accomplished by self-made systems consisting of a trap flask, a rudimentary aspiration tool and an external vacuum source.

VACUSIP provides an out-of-the-box solution for the wide array of liquid waste disposal tasks carried out at the laboratory bench. It features a reliable, low noise pump, enabling it to operate independently from an external vacuum source. The battery version of VACUSIP contains a rechargeable battery for even more flexibility. A unique hand operator allows a fine regulation of the aspiration flow and accepts a variety of adapters.

The 0,5 l glass bottle is quickly exchanged and all components coming in contact with liquids can be autoclaved. If the inactivation of the liquid waste is carried out externally, a disposable bottle may be used.

- Small and compact; the system fits on every bench
- Using the battery version of VACUSIP eliminates the cable mess in a laminar flow hood and increases mobility
- The integrated pump runs silently and stops automatically when the vacuum is established, this prevents unnecessary pump operation
- Quick exchange of waste bottle due to screw cap sealing
- Hydrophobic filter prevents aerosols and liquid from entering the system
- No additional equipment necessary and maintenance-free
- For easy decontamination, all parts that come in contact with liquids can be autoclaved

Delivery information: The system is supplied with 1× borosilicate bottle (500 ml) with GL 45 lid, 1× silicone hand operator (incl. 1- and 8-channel stainless steel tips and 1-channel adapter for disposable tips/GRIPTIPS), 1,2 m silicone tubing, 1× hydrophobic filter 0,45 µm and mains adapter.

Model	With battery	Without battery
Final pressure of vacuum pump (mbar)	250 (±20%)	
Max. suction capacity (DIN 28432) 50/60 Hz (m^3/h)	0,00828 (2,3 ml/s)	
Protection class	IP 31	
Specifications	Battery: Li-Ion (for 5 days autonomy when aspirating 1 h/day)	-
Weight (kg)	500 g (970 g with bottle)	

Description	W×D×H (mm)	Pk	Cat. No.
VACUSIP with rechargeable battery	120×162×125	1	**181-0276**
VACUSIP without battery	120×162×125	1	**181-0275**

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Description	Pk	Cat. No.
Accessories		
1-channel stainless steel tip 40 mm	1	**612-0688**
8-channel stainless steel tips 40 mm	1	**612-0687**
1-channel stainless steel tip 280 mm	1	**612-0692**

Vacuum aspiration systems, VACUBOY

Integra Biosciences

The VACUBOY hand operator is ideal for aspirating and suctioning liquids from cuvettes, microtitration plates, test tubes, Petri dishes, cell culture bottles, roller bottles, bioreactors and other typical laboratory vessels in a safe and controlled way. It is designed to be used with many different stainless steel aspiration adapters, Pasteur and serological pipettes and pipette tips for an enormous range of applications. Each adapter has been specially designed to match the dimensions and the geometry of the corresponding glass or plastic laboratory vessels. The hand operator can be connected to any vacuum source already in the laboratory, thus serving to improve the existing facilities.

- Extremely easy, time-saving operation
- Ergonomic design takes the strain out of tedious, repetitive aspiration tasks
- All parts that come into contact with liquid are autoclavable
- Can be attached to any vacuum source (e.g. water jet pumps, external vacuum pumps, house vacuum system)
- A wide selection of single-channel and multi-channel adapters are available as options

VACUBOY hand operator

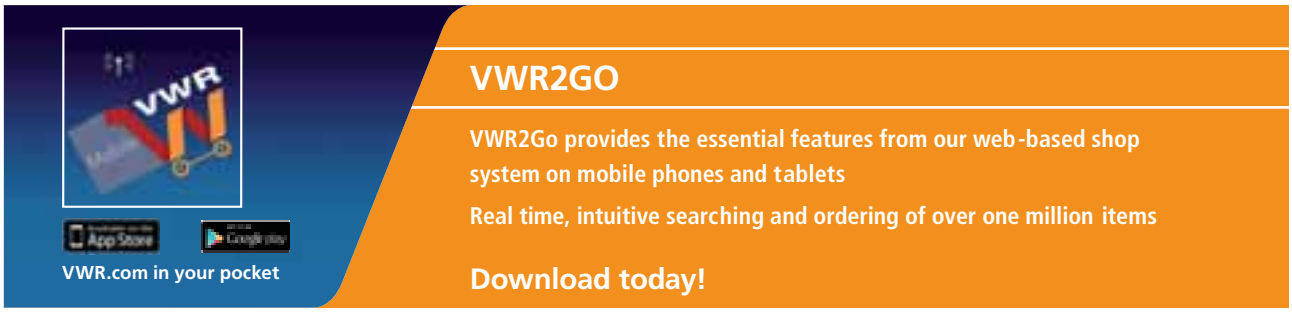
The basic device with the technical features described above, a rubber adapter for Pasteur pipettes and a 40 mm long, stainless steel single-channel adapter.

VACUBOY hand operator set

Includes the basic device as described above, a matching stand, rubber adapter for Pasteur pipettes, one single-channel and one 8-channel adapter, both stainless steel and 40 mm long, one single-channel plastic adapter for tips with or without an ejection mechanism, and one 8-channel plastic adapter for tips with an ejection mechanism.

Description	Pk	Cat. No.
VACUBOY hand operator single channel	1	**612-0684**
VACUBOY hand operator set, multi-channel	1	**612-0683**

Description	Pk	Cat. No.
Accessories and spare parts		
Aspirating adapter, 1-channel, plastic, for disposable tips	1	**612-0693**
Aspirating adapter, 1-channel, plastic, for disposable tips, with ejector device	1	**612-3358**
Aspirating adapter, 1-channel, stainless steel tip, 150 mm length	1	**612-0685**
8-channel plastic aspiration adapter for disposable tips with ejection divice	1	**612-0686**
Adapter, rubber, for Pasteur pipettes	1	**612-0695**
Stand, for VACUBOY hand operator	1	**612-0696**



Vacuum gauge, DVR 2
Vacuubrand

Model DVR 2

Fully electronic, highly versatile vacuum gauge for measurements from atmospheric pressure down to 1 mbar. Includes built-in alumina/ceramic gauge head with excellent anti-corrosion properties as well as long term stability. Mains independent battery operation considerably enhances the unit's range of uses. Long life lithium battery contains no mercury or cadmium. With its easy operation and combination digital/analogue pressure display for rapid trend detection and precise readout, the gauge can be used in many different situations. It meets stringent specifications with regard to measurement accuracy, safety and environmental protection.

- Large analogue display and digital measurement value; fast trend display, good arrangement, precise readout
- Fully electronic unit, no sensitive mechanical parts
- Electronically switchable units (Torr, mbar, hPa)
- High EMC; radio interference level at the limit of detection, good immunity to interference for use in industrial environments
- Mains-independent operation; automatic switch-off, selectable sleep mode, battery charge monitoring, display for battery change
- Capacitive alumina/ceramic gauge head with outstanding chemical resistance, long term durability and accuracy

Delivery information: Items supplied include the vacuum gauge with on/off switch, 9 V lithium battery, support pole and operating manual.

Model	DVR 2
Measurement range	1080 - 1 mbar (hPa), 810 - 1 Torr
Measuring principle	capacitive measurement of absolute pressure, independent of the type of gas
Measurement cycle	selectable: automatic or 1× every 3s, 1× every 1s, 3× every 1s
Accuracy	<1 mbar (0,75 Torr) ±1 digit
Temperature coefficient	<0,07 mbar/K
Permitted ambient temperature for operation	+10 to +40 °C
Permitted ambient temperature for storage	+10 to +60 °C
Protection class	IP 40
Vacuum connection	small flange DN 16 and screw in, stepped hose nozzle DN 6/10
Gauge head	built into the unit, made from alumina/ceramic
Max. temperature of media at the gauge head	+80 °C (gas, short duration peak)
Automatic switch-off	sleep mode selectable from 1 - 1000 minutes (factory setting 15 minutes), or 'Permanent On'
Power requirements	9 V lithium battery, 1,2 Ah Ultralife U9VL
Housing	stable plastic housing (PP) with good chemical resistance
W×D×H (mm)	115×115×66
Weight (kg)	0,4

Description	Pk	Cat. No.
Vacuum gauge DVR 2	1	**188-1111**

Vacuum gauge with ATEX approval, DVR 3
Vacuubrand

Model DVR 3

Fully electronic vacuum gauge with ATEX approval for use in explosive environments. It has built-in alumina/ceramic transducer with excellent corrosion resistance and high long term stability. Mains independent battery power allows an exceptionally wide range of uses. The gauge is highly versatile with simple operation and a combined digital/analogue pressure display for rapid detection of trends and accurate readout. It is are rugged, free of mercury and cadmium and contain no sensitive mechanical parts. Ideal for use in the chemical and chemical engineering industries, plant construction and process engineering.

- Large analogue display and digital measurement value
- Integrated BVE 9 V mains independent power supply unit with separate ATEX approval, contains no mercury or cadmium (must only be used with this power supply unit)
- Battery voltage monitoring: Battery change display, discharge status display
- Excellent operating safety, radio interference level on the limit of detection, excellent resistance to interference for use in industrial environments
- Alumina capacitance transducer

Delivery information: Supplied as vacuum gauge with on/off switch and integral power supply unit BVE 9 V, and the operating manual.

Model	DVR 3
Measurement range	1080 - 1 mbar (hPa), 810 - 1 Torr
Measuring principle	capacitive absolute pressure measurement independent of gas type
Measurement cycle	selectable: automatic or 1× every 3s, 1× every 1s, 3× every 1s

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Accuracy	< ±1 mbar (0,75 Torr) ±1 digit
Temperature coefficient	<0,07 mbar/K
Permitted ambient temperature for operation	+10 to +40 °C
Permitted ambient temperature for storage	–10 to +60 °C
Protection class	IP 40
ATEX approval	II 2G Eex ia IIC T4, e.g. for use in and at Zone 1
Vacuum connection	core flange DN 16 and screw-in, stepped hose nozzle DN 6/10
Gauge head	integrated into the unit, made from alumina/ceramic
Max. temperature of media at the gauge head	+80 °C (gas, short duration peak)
Automatic switch-off	sleep mode selectable from 1 - 1000 minutes (factory setting 15 minutes, or "Permanent On")
Integral power supply unit	BVE 9 V; ATEX approved
Power requirements	integral power supply
Housing	stable plastic housing (PP, conductive) with good chemical resistance
W×D×H (mm)	116×116×66
Weight (kg)	0,43

Description	Pk	Cat. No.
Vacuum gauge, DVR 3	1	**181-1118**

Vacuum gauge, DCP 3000
Vacuubrand

Model DCP 3000 with VSK 3000 sensor

Versatile, accurate and robust vacuum gauge. Outstanding measurement accuracy thanks to its capacitive, anti-corrosive gauge head with excellent long-term stability and effective temperature compensation. With its robust plastic housing and splash-proof gauge head, the VSK 3000 is ideal for tough applications.

- Direct measurement on the system with VACUU BUS technology; up to four external gauge heads can be attached with max. distance of 30 m
- Large, illuminated screen with analogue display and digital measurement values
- Measurement values of all sensors displayed by simply turning a knob
- Ventilation at the touch of a button, connection for external venting valve (optional accessories)
- Simple calibration without complex characteristic lines
- Interactive communication via RS232C serial interface

Ordering information: Vacuum gauge is supplied with external sensor, base, power supply, country-specific plug and instruction manual.

Measuring principle	ceramic diaphragm (alumina), capacitive, gas indep., absolute pressure
Accuracy	1080 mbar (810 Torr)
Permitted ambient temperature for operation	+10 to –40 °C
Permitted ambient temperature for storage	–10 to –60 °C
Protection class	IP 20
Gauge head	up to four gauge heads VSK 3000 (Atm. - 0.1 mbar) can be simultaneously connected
Max. temperature of media at the gauge head	+80 °C
Housing	robust plastic housing with good chemical resistance
W×D×H (mm)	144×124×114
Weight (kg)	0,44

Description	Pk	Cat. No.
Vacuum gauge, DCP 3000 with VSK 3000 sensor	1	**181-1031**

Description	Pk	Cat. No.
Accessories		
VACUU BUS extension cable, 4-pin 2 m	1	**181-1002**
VACUU BUS Y-adapter 1× plug, 2× sockets	1	**181-1008**
External sensor, VSK 3000	1	**181-1009**
VB M-B KF DN16/G1/4" venting valve with hose nozzle G1/4" - 6/10 mm, VACUU BUS	1	**181-1015**

Vacuum controller
Vacuubrand

Model CVC 3000

Fully electronic, highly versatile vacuum gauge and controller. The controller is equipped with a built-in capacitive absolute-pressure transducer made from alumina/ceramic as well as a built-in venting valve and switched outlets for a suction line valve and a coolant water valve. It eases work considerably and enables environmentally friendly operation whilst protecting samples, solvent recovery, reduced foam formation and superheating. The optimum vacuum setting can be found quickly and simply, even with unknown mixtures and pressures.

- Process vacuum system, cooling water and ventilation controlled according to requirement
- Intuitive menu control via graphic display with analogue and digital vacuum display
- Self setup: Simply connect; the controller detects Vacuubrand NT pumps, vacuum valves and coolant valves as well as external sensors with VACUU BUS
- Preset functions for numerous applications, e.g. drying oven, filtration etc.
- Automatic boiling point for rotary evaporators: Fully automatic - no need to enter parameters with VARIO NT pumps

Delivery information: Items supplied include the vacuum controller with base, power supply unit, cable with country-specific plug and operating manual.

Model	CVC 3000
Control connections	1× plug for power supply / NT VARIO pump
Control leads	digital VACUU BUS
Control range	1060 - 1 mbar (795 - 1 Torr) depending on the vacuum pumps used; turbo mode: <1 mbar (<1 Torr)
Dimensions bench top L×W×H	138×124×115 mm
Max. consumption of power supply	0,8 A
Max. power input	3,4 W (140 mA at 24 V=)
Measurement accuracy	<±1 mbar (0,75 Torr) (after compensation, at constant temperature)
Measurement range	1080 - 0,1 mbar (810 - 0,1 Torr)
Measuring port	threaded connection for PTFE tubing 10/8 mm, with hose nozzle DN 6/10 (mounted); small flange KF 16 (accessories)
Power supply	100 - 240 V / 47 - 63 Hz
Pressure transducer (built-in)	capacitive absolute pressure transducer
Suction line and coolant water valve	connection socket 5-pin, EN 60130-9
Temperature coefficient	< ±0,07 mbar/K (< ±0,05 Torr/K)
Venting valve (built-in)	inert gas connection for hose 4 - 5 mm
Weight without power supply (kg)	0,44

Description	Pk	Cat. No.
Vacuum controller CVC 3000	1	**181-1030**

Description	Pk	Cat. No.
Accessories		
VACUU BUS extension cable, 4-pin 2 m	1	**181-1002**
VACUU BUS valve cable for suction line valves VV-B,VV-B/C, 2 m	1	**181-1003**
VACUU BUS valve cable for VB M-B venting valve, cable length 2 m	1	**181-1004**
VACUU BUS valve cable for VKW-B 24 V/= coolant valve, cable length 2 m	1	**181-1006**
Installation kit for CVC 3000, consists of 3 spring clips plus screws	1	**181-1007**
VACUU BUS Y-adapter 1× plug, 2× sockets	1	**181-1008**
External sensor, VSK 3000	1	**181-1009**
VV-B 15C suction line valve, VACUU BUS, PVDF/PTFE, electromagnetic, DN 16	1	**181-1013**
VV-B 15C suction line valve, VACUU BUS, PVDF/PTFE, electromagnetic, DN 25	1	**181-1014**
VB M-B KF DN16/G1/4" venting valve with hose nozzle G1/4" - 6/10 mm, VACUU BUS	1	**181-1015**
VKW-B coolant valve, VACUU BUS, DN 1.5 mm, input G3/4"/G1/2", output of hose nozzle 6 mm, cable length 2 m	1	**181-1016**
VV-B 6 suction line valve, VACUU BUS, FPM/PP, electromagnetic, DN 16	1	**181-1017**
VV-B 6C suction line valve, VACUU BUS, PVDF/fluorelastomer, electromagnetic, DN 16	1	**181-1018**

Internal centering rings for small flange connections
Vacuubrand

Stainless steel, non-rusting with FPM O-ring seal

- Suitable for use in a temperature range from –40 to +150 °C
- Can also be used for bakeable flanges in high vacuum engineering
- FPM O-ring seal with low gas discharge

Size	Pk	Cat. No.
DN 10	1	**185-1221**
DN 20	1	**185-1223**
DN 32	1	**185-1225**
DN 50	1	**185-1227**
DN 16	1	**185-1222**
DN 25	1	**185-1224**
DN 40	1	**185-1226**

Clamping rings for small flange connections
Vacuubrand

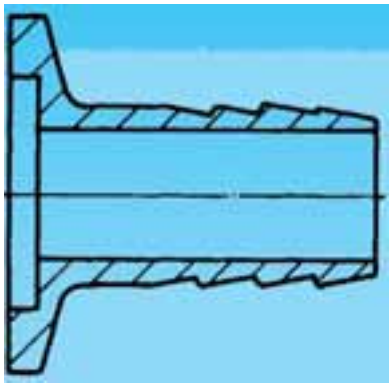
Aluminium or stainless steel, non rusting

For securing and mechanical pressing of O-ring seals.

- Aluminium clamping rings with wing nut for fast connection without tools
- Stainless steel clamping rings for assembly with allen screws; for applications in which corrosion is possible, requirements for low gas discharge and particularly clean conditions
- System components for a wide range of connections

Description	Size	Pk	Cat. No.
Clamping ring, made of aluminium for small flange KF	DN 10/16	1	**185-1111**
Clamping ring, made of aluminium for small flange KF	DN 20/25	1	**185-1112**
Clamping ring, made of aluminium for small flange KF	DN 32/40	1	**185-1113**
Clamping ring, made of aluminium for small flange KF	DN 50	1	**185-1114**
Clamping ring, made of stainless steel for small flange KF	DN 10/16	1	**185-1121**
Clamping ring, made of stainless steel for small flange KF	DN 20/25	1	**185-1122**
Clamping ring, made of stainless steel for small flange KF	DN 32/40	1	**185-1123**
Clamping ring, made of stainless steel for small flange KF	DN 50	1	**185-1124**

Small flanges with hose nozzle
Vacuubrand



Aluminium

For connecting pumps to vacuum hoses.

- Fast, easy assembly and disassembly from pumps
- Safe, vacuum tight connection with optional centering and clamping rings
- A wide range of flanges with hose nozzles for various internal hose diameters is available

For tube I-Ø (mm)	Size	Pk	Cat. No.
6	DN 10	1	**185-2251**
6	DN 16	1	**185-2252**
8	DN 25	1	**185-2253**
10	DN 25	1	**185-2254**
15	DN 25	1	**185-2256**
8	DN 40	1	**185-2257**
10	DN 40	1	**185-2258**
15	DN 40	1	**185-2259**

Vacuum tubing
Vacuubrand

Rubber

- Thick walled, inherently stable and flexible rubber tubing
- Provides a good seal with hose nipples and hose nozzles
- Can be ordered in full metre lengths

Ø int. (mm)	Ø ext. (mm)	Wall thickness (mm)	Pk	Cat. No.
6	12	3	1 m	**189-3110**
8	18	5	1 m	**189-3111**
10	30	10	1 m	**189-3112**
15	35	10	1 m	**189-3113**
19	45	13	1 m	**189-3114**

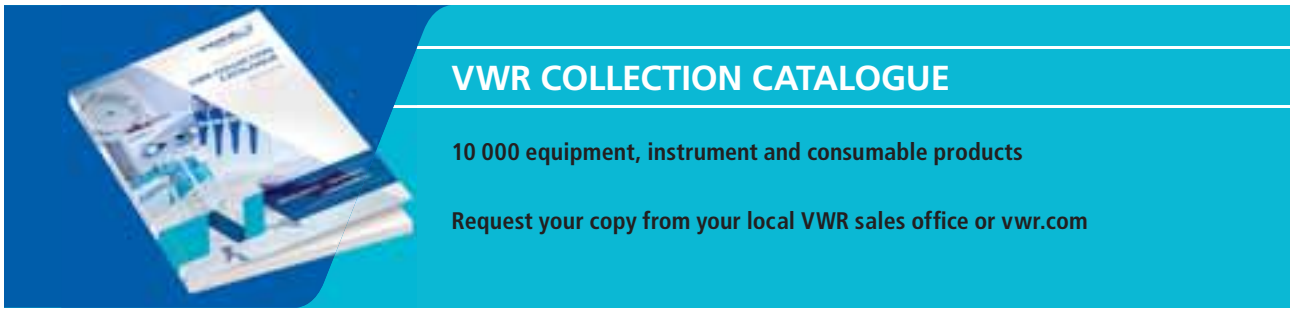
Metal tubing with small flanges

Vacuubrand

Stainless steel, non rusting

Highly flexible corrugated metal tubes with small flanges welded on both ends.

- Meets strict gas discharge and cleanliness requirements
- Simple, easy assembly and disassembly
- Secure, vacuum tight connection in conjunction with optional centering and clamping rings

Flange Size	KF DN 10	KF DN 16	KF DN 25	KF DN 40
Repeated bending	90 mm	120 mm	155 mm	200 mm
Single bending	19 mm	29 mm	43 mm	65 mm

Length (mm)	Size	Pk	Cat. No.
250	DN 10	1	**185-2511**
500	DN 10	1	**185-2512**
750	DN 10	1	**185-2513**
1000	DN 10	1	**185-2514**
250	DN 16	1	**185-2521**
500	DN 16	1	**185-2522**
750	DN 16	1	**185-2523**
1000	DN 16	1	**185-2524**
250	DN 25	1	**185-2531**
500	DN 25	1	**185-2532**
750	DN 25	1	**185-2533**
1000	DN 25	1	**185-2534**
250	DN 40	1	**185-2541**
500	DN 40	1	**185-2542**
750	DN 40	1	**185-2543**
1000	DN 40	1	**185-2544**