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- Automatic amplitude compensation ensures uniform tip excursion regardless of load conditions
- Integrated temperature controller with user defined temperature limits precludes harmful overheating
- Sealed, piezoelectric converter, Type PZT (Lead Zirconium Titanate) crystals
- Titanium alloy (TI-6AL-4V) probes

*** Sample volumes** for VCX 500, VCX 750 and VCX 850; from 250 µl to 1 litre on a batch basis and up to 20 litres/hour on a flow-through basis depending on choice of optional replacement probes.
For VCX 1500; up to 20 litres when used with a solid probe, Ø 25 mm, length 508 mm (please ask VWR for details) and a mechanical mixer or stirrer.

Safety note: Never use a probe with a replacement tip with low surface tension liquids. Use a solid probe instead.

** Optional probe required 432-0129

Ordering information: For accessories for the Vibra-Cell™ processors please see separate entry 'Probes and accessories for Vibra-Cell™ ultrasonic processors'.

Delivery information: Supplied complete with 1,8 m cable from converter, standard 13 mm probe (VCX 500, VCX 750 and VCX 850) or 25 mm (VCX 1500), tool kit and manual.

Model	VCX 500	VCX 750	VCX 850	VCX 1500
Power display	Digital (Watts and Joules)		Graphic display includes energy, power, amplitude, pulse time, process time, temperature	Digital (Watts and Joules)
Frequency (kHz)	20			
Max. output power (W)	500	750	850	1500
Sample volume	10 ml to 250 ml with standard probe*			4000 ml with standard probe*
Interval time (s)	1 - 59 (independent on/off pulser)			
Timer	1 sec - 10 hrs		0 sec - 72 hrs	1 sec - 10 hrs
Probe	Length: 136 mm Tip diameter 13 mm			Length: 254 mm Tip diameter 25 mm
Method storage	Up to 10 procedures			
Temperature control range (°C)	1 - 100 **			1 - 100**
W×D×H (mm)	Ø 63,5×183 (converter) 190×340×235 (power supply)			Ø 76,2×158,7 (converter) 380×458×177 (power supply)
Weight (kg)	0,9 (converter) 6,8 (power supply)			0,9 (converter) 9,5 (power supply)

Description	Pk	Cat. No.
VCX 500 Vibra-Cell™, ultrasonic processor	1	**432-0137**
VCX 750 Vibra-Cell™, ultrasonic processor	1	**432-0138**
VCX 850 Vibra-Cell™, ultrasonic processor	1	**432-0270**
VCX 1500 Vibra-Cell™, ultrasonic processor	1	**432-0139**

Probes and accessories for Vibra-Cell™ ultrasonic processors

432-0121

432-0123

432-0125

A wide range of probes for a variety of applications is available, including stepped and tapered microtips and also probes for processing in microplates.

- Multi-element probes for deep well microplates
- Cuphorns for non invasive sonication of samples
- Continuous flow cells for dispersing and homogenising large volumes of low viscosity samples where extended exposure to ultrasonics is not desirable
- Footswitch for hands-free operation
- Sound abating enclosures - reduce noise and act as a containment facility

Probes for processing in microplates

The multi-element probes are specifically designed for processing up to 96 deep well plates as well as 1,5/2,0 ml microtubes and 10 ml test tubes. Although originally designed for genomic and proteomic applications, these probes can also be used for cell and tissue fractionation, toxicity studies, sample preparations, ELISAs, enzymology, protein purification for RNA, DNA, PCR labelling, hybridisation, receptor binding studies, preparation of liposomes, micro emulsions, extractions, desegregation and dissolution. Unlike ultrasonic baths, or microplate horns, the probes deliver the intensity directly into the sample, not through the microplate walls and unlike single probes with grooved protrusions, these composite probes act as mechanical amplifiers. These 20 kHz multi-element probes consist of a coupler and multiple 3 mm replaceable stepped microtips, spaced 18 mm apart. The complete assembly is approximately 260 mm long.

The probes can be mounted onto a heavy duty laboratory stand or incorporated into an automated X - Y positioning system to satisfy high throughput requirements.

Ordering information: For details of the full range of acccesories including full wave probes, high gain probes, full wave extenders plus accessories for model

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