500 and 750 Watt Ultrasonic Processors – VCX Series – 250 microliters to liters*

☐ **Energy Setpoint**
The energy setpoint continuously monitors the amount of energy in Joules (watts x seconds), that is being delivered to the probe, and terminates the ultrasonics when the desired amount of energy has been dispensed.

☐ **Wattmeter**
Digitally displays the actual amount of power in watts that is being delivered to the probe.

☐ **Automatic Tuning and Frequency Control**
Eliminates the need for constant adjustment of the power supply.

☐ **Integrated Temperature Controller**
Precludes harmful overheating of the sample and guarantees process integrity by terminating the ultrasonics when the sample temperature reaches a predetermined limit. Allows process control and monitoring from 1°C to 100°C.

☐ **Consistent Reproducibility**
Time saving memory stores up to ten procedures to facilitate protocol duplication, automate repetitive tasks, and eliminate technician-to-technician method variability.

☐ **Microprocessor Based – Programmable**
Digital accuracy and repeatability assures adherence to the most exacting protocol.

☐ **Automatic Amplitude Compensation**
Ensures uniform probe amplitude regardless of the varying loading conditions encountered during the processing cycle.

☐ **Real Time Display**
Provides a window on the process. No more assumptions. No more approximations. All set and run parameters are continuously displayed on the screen, providing operating mode confirmation without process interruption.

☐ **Variable Power Output Control**
Allows the ultrasonic vibrations at the probe tip to be set to any desired amplitude. Selected output level is clearly displayed on the screen.

☐ **Ten Hour Process Timer**
Controls the processing time from 1 second to 10 hours.

☐ **Elapsed Time Indicator**
Monitors both the elapsed time and the duration of processing.

☐ **Independent On/Off Pulser**
Enables safe treatment of temperature-sensitive samples at high intensity, and provides mixing by repeatedly allowing the sample to settle back under the probe after each burst. Both on and off cycles are independently controllable from 1 second to 59 seconds.

☐ **User Friendly**
Menu driven fill-in-the-blank prompts provide intuitive guidance through all functions.

☐ **Smallest Footprint In Its Class**
Ultra-compact design eases emplacement and optimizes bench space. Only 7⅜" x 13⅛" (190 x 340 mm).

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*On a flow-through basis*
SPECIFICATIONS

POWER SUPPLY
Net power output: VCX 500 - 500 Watts, VCX 750 - 750 Watts. Frequency: 20 kHz
Remote actuation compatible
Dimensions (H x W x D) 9¼" x 7½" x 13½” (235 x 190 x 340 mm)
Weight: 15 lbs. (6.8 kg)

SEALED CONVERTER
Model CV 33. Piezoelectric lead zirconate titanate crystals (PZT)
Diameter: 2½” (63.5 mm)
Length: 7¼” (183 mm)
Weight: 2 lb. (900 g)
Cable length: 6’ (1.8 m)

STANDARD PROBE
Tip diameter: ¼" (13 mm) solid Order No. 630-0219, or with threaded end and replaceable tip Order No. 630-0220. Please specify.*
Processing capability: 10 ml to 250 ml.**
Length: 5¾” (136 mm)
Weight: ¾ lb. (340 g)
Titanium alloy Ti-6Al-4V

TEMPERATURE PROBE
(Required)
Allows sample temperature to be monitored up to 100°C.
Stainless steel.
Order No. 830-00060

ELECTRICAL REQUIREMENTS
Unless otherwise requested, units are shipped wired for 117 volts, 50/60 Hz.
For export, please specify desired voltage option.

ORDERING INFORMATION

Order No.
500 Watt ultrasonic processor ............... VCX 500
750 Watt ultrasonic processor ............... VCX 750

Shipped complete and ready for operation with a ¼” (13 mm) probe with replaceable tip,* tool kit, and instruction manual.

* Do not use a probe with replaceable tip when processing samples containing organic solvents or low surface tension liquids.
Use solid probe Order No. 630-0219 instead. Unless otherwise requested, the probe supplied will have a replaceable tip.
** For other volumes please refer to probe and microtip listings. A different probe can be substituted for the standard probe.