

Introducing Vibracell VCX series : a sophisticated ultrasonic liquid processor for today's laboratory / Sonics & Materials, Inc.

Contributors

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I N T R O D U C I N G

vibra^{cell}

VCX SERIES

**...a sophisticated
ultrasonic liquid processor
for today's laboratory**



Simply stated, with the VCX Series, we challenged ourselves to build nothing less than the most technologically advanced ultrasonic processor in the industry.

We began by asking present users of ultrasonic equipment what features they wanted most. Then we designed a radically new unit to meet their requirements.

The result...the best ultrasonic liquid processor that modern technology can offer.

MICROPROCESSOR BASED

Digital accuracy and repeatability assure adherence to the most exacting protocol.

INTEGRAL TEMPERATURE CONTROLLER

Precludes harmful overheating of the sample, and guarantees process integrity by terminating the ultrasonics when the sample temperature reaches a predetermined limit.

REAL TIME DIGITAL DISPLAY

Easy to read, full function alpha-numeric monitor continuously provides an accurate "window" on the process. No more assumptions. No more approximations. All programmed control parameters are displayed on the screen providing operating mode confirmation without process interruption.

NON-VOLATILE MEMORY

Facilitates complex protocol duplication. Conveniently stores up to ten programs.

UNMATCHED EASE OF OPERATION

Tactile keypad, menu driven display, and easy to use function keys combine to make for the most user-friendly system in the industry. Step-by-step instructions in plain everyday language facilitates communication. Logical question-and-answer prompts are in English, not in code.

TEN HOUR PROCESS TIMER

Controls the processing time - from one second to ten hours.

INDEPENDENT ON/OFF PULSER

Enables safe treatment of temperature sensitive samples at high intensity.

ELAPSED TIME/RUN TIME

Monitors both the elapsed time and the duration of processing.

VARIABLE AMPLITUDE 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.

POWER MONITOR

Displays the actual amount of power being delivered to the sample.

AUTOMATIC FREQUENCY CONTROL

Eliminates the need for constant adjustments of the power supply after initial setup.

AUTOMATIC AMPLITUDE COMPENSATION

Ensures uniform probe tip amplitude regardless of the varying loading conditions encountered during the processing cycle.

SENSITIVE OVERLOAD PROTECTION

Provides safeguard by terminating the ultrasonics when the equipment is operated under adverse conditions.

MEETS FCC FILTERING REQUIREMENTS

Proprietary filtering guarantees compliance with FCC and OSHA rules and regulations governing radio interference and leakage current.

SPACE SAVING DESIGN

Compact upright configuration minimizes bench space. The VCX has the smallest footprint in the industry.

THREE-YEAR UNCONDITIONAL WARRANTY



The longest and most comprehensive warranty in the industry - covers both parts and labor.

ACCESSORIES AND ATTACHMENTS

The VCX is shipped complete with tool kit and instruction manual - ready for operation. For a detailed description of complementary accessories and attachments, please contact us or your local representative.

The complete capabilities and benefits of the VCX Series can only be hinted at in this brief brochure.

We invite you to inquire further, as to how this innovative instrument can satisfy your specific processing requirements.

SPECIFICATIONS - VCX400/VCX 600

Dimensions 7 -1/2" x 13- 1/2" x 8 -1/2" (19 X 34 X 21.6 cm)
Weight 18 lbs (8 kg)
Power (watts continuous) 400 and 600
Frequency 20 kHz
Power Requirements 100V,117V or 220V 50/60Hz
Monitor Alpha-numeric liquid crystal display
Power Control Continuous variable amplitude output
Timer 1 second to 10 hours
Pulser On/Off - 0.1 second to 10 seconds
Temperature Controller 1°C to 100°C \pm 1°C
Temperature Probe (optional) Stainless Steel

CONVERTER - CHROME PLATED

Dimensions .. Diameter 2 -1/2" (6.35 cm) Length 7 -1/4" (18 cm)
..... with horn approx. 12 -1/2" (31.75 cm)
Weight 2 lbs (925g)
Crystals Lead Zirconate Titanate (PZT)
Horn (titanium alloy) 1-1/2" (38 mm) body diameter
..... Stepped to 1/2" (13 mm) radiating diameter.
Weight 3/4 lb (340g)

...for
Sample Preparation
Cell Disruption
Disintegration
Homogenization
Critical Cleaning
Sonochemistry



REPRESENTED BY:

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