

Cole-Parmer®

Cole-Parmer® Ultrasonic Processors

Microprocessor-based programming with digital accuracy and repeatability ensures adherence to the most exacting protocol

- Automatic tuning and frequency control eliminate the need for constant adjustment of the power supply
- Independent on/off pulser ensures thorough mixing and safe treatment of temperature-sensitive samples at high intensity; controls on/off cycles from 1 to 59 seconds
- Real-time display provides a window on the process—no more assumptions or approximations!
- All parameters are continuously displayed on the screen, providing operating mode confirmation without process interruption
- User-friendly menu-driven prompts provide intuitive guidance through all functions



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130-Watt Ultrasonic Processors

- Ideal for low-volume applications—from 150 μ L to 150 mL
- Built-in probe rests help keep everything close at hand
- Models 04714-52 and -53 feature a pulse button conveniently placed right on the handpiece
- Models 04714-50 and -51 feature a 10-hour timer and independent on/off pulser

Applications

- Sample preparation
- Cell lysing
- Disaggregation
- Homogenization
- Particle size reduction
- Soil testing
- Acceleration of chemical reactions





500-Watt Ultrasonic Processor

- Designed with the smallest footprint in their class, this compact unit fits on any laboratory's existing bench space
- Process batch samples as small as 250 μ L or as large as 1000 mL
- Timer controls processing from 1 second up to 10 hours and monitors both the elapsed time and duration of processing



500- and 750-Watt Ultrasonic Processors with Temperature Controller and Memory

- Offer the same great features as above, plus...
- Integrated temperature controller prevents harmful sample overheating by terminating the ultrasonics when the sample temperature reaches a predetermined limit (set from 1 to 100°C); order temperature probe separately
- Time-saving memory stores up to ten procedures to facilitate protocol duplication, automate repetitive tasks, and eliminate user-to-user method variability for consistent reproducibility



Performance Specifications & Ordering Information

- Variable power output control allows the ultrasonic vibrations at the probe tip to be set to any desired amplitude with on-screen display of output level
- Timer controls the processing time from 1 second to 10 hours

Description	Sample volume	Dimension (W x H x D)	Power (50/60 Hz)	Item number
130-watt processor with pulser button	150 µL to 150 mL	9¾" x 3½" x 12½" (248 x 89 x 318 mm)	115 VAC	04714-52
			220 VAC	04714-53
130-watt processor with timer and independent pulser			115 VAC	04714-50
			220 VAC	04714-51
500-watt processor with timer	250 µL to 1000 mL	7½" x 8½" x 13½" (191 x 216 x 343 mm)	115 VAC	04711-70
			220 VAC	04711-75
500-watt processor with timer, temperature controller, and memory			115 VAC	04711-30
			220 VAC	04711-35
750-watt processor with timer, temperature controller, and memory	250 µL to 1000 mL	7½" x 8½" x 13½" (191 x 216 x 343 mm)	115 VAC	04711-40
			220 VAC	04711-45

What's included:

probe with tip, converter, tool kit, and 6-ft power cord.

Accessories

04711-50 Stainless steel temperature probe for models 04711-30, -35, -40, -45. CSA-approved.

04712-92 Stand for all models; 24"H x ½" dia (610 x 13 mm) stainless steel rod and 9"L x 5½"W (229 x 140 mm) cast-iron base (229 x 140 mm).

04714-90 Converter clamp for 130-watt models. Secures converter onto a ½" (13 mm) dia rod.

04714-91 Converter clamp for 500- and 750-watt models. Secures converter onto a ½" (13 mm) dia rod.

04712-05 Foot switch for all models. Provides hands-free operation; with 6-ft (1.8-m) cable. CE-marked.



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