U

# Cole-Parmer® 500- and 750-Watt Ultrasonic Processors

# Don't worry about over heating

- Prevent over heating with independent on/off pulser
- Easy-to-use menu for intuitive guidance
- Process samples from 250 µL to 19 L/hr with continuous flow cell
- Reproducible results with energy monitor

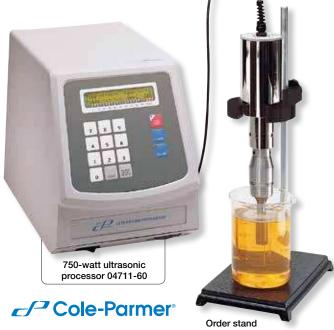
#### **Ultrasonic Processors**

- Deliver 500 or 750 watts at 20 kHz
- Use 500-watt model for small samples, 750-watt model for larger volumes
- Autotuning
- Monitor elapsed time, duration of processing, and power
- Adjustable energy intensity with variable amplitude control and monitor digitally and graphically

# Ultrasonic Processors with Temperature Controller and Energy Controller

 Same features as above plus integral temperature controller, energy controller, and memory

What's included: converter, tool kit, foot switch connection, ½" (13-mm dia) probe 04710-31 with replaceable tip, and a 6-ft (1.8-m) cord with plug.



04712-92 and clamp 04714-91 below.



Description	Sample volume	Frequency	Power		500-watt ultrasonic processors		750-watt ultrasonic processors	
			VAC	Hz	Catalog number	Price	Catalog number	Price
Ultrasonic processor	250 μL to 19 L/hr†	20 kHz	115 230	50/60 50/60	<u>GY-04711-70</u> GY-04711-75		<u>GY-04711-60</u> GY-04711-65	
Ultrasonic processor with temperature controller and energy controller		20 kHz	115 230	50/60 50/60	GY-04711-30 GY-04711-35		GY-04711-40 GY-04711-45	

<sup>†</sup>Maximum volume using continuous flow cell 04710-91 (order separately below)

#### Accessories

<u>GY-04710-48</u> Sound-abating enclosure. Measures 14"W x 30"H x 14"D  $(35.6 \times 76.2 \times 35.6 \text{ cm})$ . Support rod and converter clamp included <u>GY-04712-05</u> Foot switch for hands-free operation; 6-ft (1.8-m) cable included. CE-marked

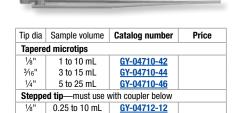
**GY-04712-92 Stand.** 24"H x  $\frac{1}{2}$ "-dia (61.0 x 1.3 cm) stainless steel rod and 9"L x  $\frac{5}{2}$ "W (22.9 x 14.0 cm) cast-iron base

**GY-04714-91 Converter clamp** secures converter onto 1/2"-dia rod; made of chemical-resistant reinforced plastic

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

### Microtips

Process small samples at a very high intensity. Screw in the  $\frac{1}{2}$ " (13 mm) threaded end probe in place of the replaceable tip.



## **Replacement Tips**

Tip dia	Catalog number	Price
1/2"	GY-04710-40 <sup>±</sup>	
3/4"	GY-04710-41 <sup>±</sup>	
1"	GY-04710-47 <sup>±</sup>	
ter or or		

<sup>&</sup>lt;sup>†</sup>Use with threaded probes only.

#### Replacement Probes

Tip dia	Sample volume	Catalog number	Price				
Solid pr	Solid probes						
1/2"	10 to 250 mL	GY-04710-51					
1"	50 to 1000 mL	<u>GY-04710-55</u>					
Solid high-gain probes							
1"	50 to 1000 mL	GY-04710-59					
Threaded probes with replaceable tip							
1/2"	10 to 250 mL	GY-04710-31					
3/4"	25 to 500 mL	GY-04710-33					
1"	50 to 1000 mL	<u>GY-04710-35</u>					

## **Continuous Flow Cell**

- Get homogenization at flows up to 5 GPH (19 L/hr)
- Use with low viscosity samples for quick insonation
- Fits on ½" dia probe
- Autoclavable stainless steel

Description	Catalog number	Price
Continuous flow cell	GY-04710-91	