

Ultrasonic Homogenizers

Ultrasonic Homogenizers are recommended for samples that require particle size reduction below 1 μm . Common applications include nanoparticle dispersion, creating emulsions, bacteria cell disruptions and DNA shearing. Small and large ultrasonic probes are available to allow for a variety of sample volumes to be processed. Ultrasonic probes are made of chemical resistant solid titanium.







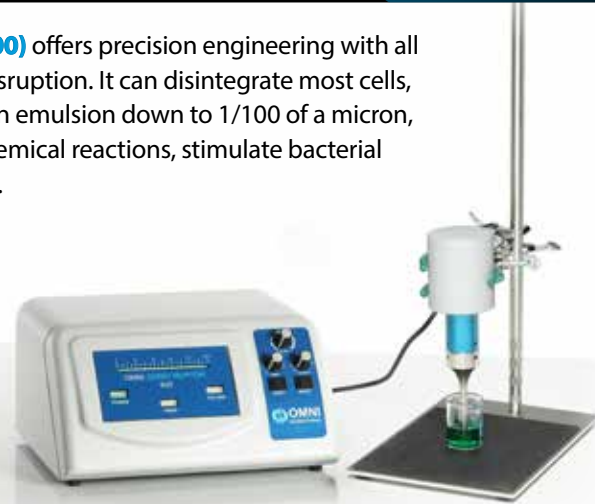
ULTRASONIC HOMOGENIZERS

Omni Sonic Ruptor 400 Ultrasonic Homogenizer ///

The **Omni Sonic Ruptor 400 Ultrasonic Homogenizer (SR 400)** offers precision engineering with all the features necessary to create a total system for ultrasonic disruption. It can disintegrate most cells, bacteria, spore or tissue. The Omni Sonic Ruptor can prepare an emulsion down to 1/100 of a micron, homogenize “immiscible” liquids, accelerate enzymatic and chemical reactions, stimulate bacterial activity, disperse solids in liquids, degas liquids and shear DNA.

PRODUCT FEATURES:

- 400 Watt Max Power (20kHz System)
- Processing Range: 500 µL - 1 L
- Variable power supply
- Auto-tuning for optimal processing efficiency
- Power-emitted display for accuracy and repeatability
- 0-15 minute timer
- Tips compatible with most 20 kHz systems
- Pulse mode for sensitive samples



Sonic Ruptor 400 Ultrasonic Homogenizer

Includes 400 watt control unit and transducer with variable power output, 2-year warranty, tool kit and instruction manual. *Stand Assembly, Tips, and Accessories sold separately.**

Description	Order #
115V Omni Sonic Ruptor 400 Homogenizer	18-000-115
220V Omni Sonic Ruptor 400 Homogenizer	18-000-220
Baseplate, stainless steel support post, three prong clamp & clamp holder	18-205

Sound Abatement Chamber

The Sound Abatement Chamber contains much of the cavitation sound emitted by the Omni Sonic Ruptor 400. This product is recommended for applications that require extended operation. A clear plexiglas door permits viewing of the sample while protecting the operator against accidental splashing.

Description	Order #
Sound Abatement Chamber	OR-A-01

250 mL Cup Tip

The 250 mL cup tip consists of a solid titanium tip of 2" diameter with a 250 mL cavity machined into one end. The cup tip acts as a small-batch, closed system. High intensity processing. *The Microtube Tray is required for use with the cup tip.*

Description	Order #
250 mL Cup Tip	OR-C-250
Microtube Tray for OR-C-250 - holds 8 microtubes	OR-C-250-T





Omni Sonic Ruptor 4000 Ultrasonic Homogenizer ///

The **Omni Sonic Ruptor 4000 Ultrasonic Homogenizer (SR 4000)** has an integrated Sound Control Chamber to contain much of the cavitation sound emitted during processing. It offers precision engineering with all the features necessary to create a total system for ultrasonic disruption. The Omni Sonic Ruptor can disintegrate most cells, bacteria, spore or tissue. It can also prepare an emulsion down to 1/100 of a micron, homogenize "immiscible" liquids, accelerate enzymatic and chemical reactions, stimulate bacterial activity, disperse solids in liquids and degas liquids.

PRODUCT FEATURES:

- 400 Watt Max Power (20kHz System)
- Processing Range: 500 µL - 1 L
- Integrated Sound Abating Chamber with Clear Plexiglas Door
- Auto-tuning for optimal processing efficiency
- Power-emitted display for accuracy and repeatability
- 0-15 minute timer
- Tips compatible with most 20kHz systems
- Pulse mode for sensitive samples
- Two-year control unit warranty

Sonic Ruptor 4000 Ultrasonic Homogenizer

Includes 400 watt control unit and integrated Sound Control Chamber with variable power output, 2-year warranty, tool kit and instruction manual. *Tips sold separately.**



Description	Order #
115V Omni Sonic Ruptor 4000 Homogenizer	OR4000-115
220V Omni Sonic Ruptor 4000 Homogenizer	OR4000-220

SONIC RUPTOR 400 and 4000 ACCESSORIES

Solid Titanium Tips All Solid Tips are of a single-piece design. Each includes a package of five Interface Washers.

Product	Intensity	Tip Size	Processing Range	Order #
5/32" Processing Tip	Very High	Diameter: 5/32" (3.8 mm) Length: 10.1" (25.6 cm)	250 µL - 10 mL	OR-T-156
3/4" Processing Tip	High	Diameter: 3/8" (9.5 mm) Length: 8.6" (21.8 cm)	10 mL - 250 mL	OR-T-375
1/2" Processing Tip	Medium-High	Diameter: 1/2" (12.7 mm) Length: 5.38" (13.65 cm)	10 mL - 300 mL	OR-T-500
1" Processing Tip	Medium	Diameter: 3/4" (19 mm) Length: 4.1" (10.5 cm)	25 mL - 500 mL	OR-T-750
1" Processing Tip	Low	Diameter: 1" (25.4 mm) Length: 4.85" (12.3 cm)	50 mL - 1 L	OR-T-1000



Continuous Flow Chamber

The Continuous Flow Chamber is designed for continuous processing of liquids and for emulsifying and homogenizing applications. The chamber may be sealed in a closed system so that infectious material can be safely processed. The water flow-through jacket maintains sample temperature at a desired level. *Requires OR-T-750 tip.*

Description	Order #
Continuous Flow Chamber	OR-F-01