



## SONIC Series, Ultrasonic Cell Disrupture Cell Disrupture Homogenizer:

Ultrasonic cell disruptures are multi-function and multipurpose instruments that utilize strong supersonic produce empty effect of taking among liquid, the instruments of multi-function, multiuse of dealing with the supersonic to the material, can be used in the brokenness of many kinds of animal and plant cells, virus cell, at the same time, can use emulsification, separates, melts, draws, subdues steeping, washes and accelerates the chemical reaction etc. evenly. Widely used in such fields as biochemistry, microbiology, medicine chemistry, surface chemistry, physics, zoology, etc. The three types of machines are with temperature control functions.

### Optional Probes:



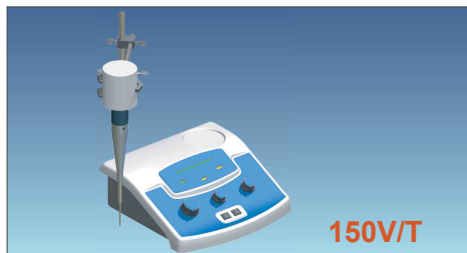
### Standard Delivery:

Power supply, Ultrasonic transducer, Ultrasonic probe, Sound abating enclosure.

### Main Functions:

- Digital display.
- Automatic tracking frequency.
- Adjustable power.
- Internal timer.
- Duty cycle setup.
- Overload alarm.

Model	Ultrasonic frequency	Maximum power	Duty ratio (%)	Optional Probes diameter	Standard probe size included with machine	Capacity (ml)	Temp. control
SONIC-150W	20-25 KHz	150W	1-99%	3mm	6mm	10-100ml	No
SONIC-250W	20-25 KHz	250W	1-99%	3mm	6mm	10-200ml	No
SONIC-650W	20-25 KHz	650W	1-99%	2,3,8,10,12,15mm	6mm	0.5-500ml	No
SONIC-650WT	20-25 KHz	650W	1-99%	2,3,8,10,12,15mm	6mm	0.5-600ml	Yes
SONIC-950WT	20-25 KHz	950W	0.1-99.9%	2,3,8,10,12,15,18mm	6mm	0.5-600ml	Yes
SONIC-1200W	19.5-20.5KHz	1200W	1-99%	15,25ml	20mm	50-1000ml	No
SONIC-1200WT	19.5-20.5KHz	1200W	0.1-99.9%	15,25ml	20mm	50-1000ml	Yes
SONIC-1800W	19.5-20.5KHz	1800W	0.1-99.9%	25,28ml	25mm	50-1200ml	Yes



150V/T

**Features:**

Power Output	0-150WATTS
Output Frequency	20k Hz
Automatic Tuning	Yes
Microprocessor Control	N/A
Duty Cycle (Pulsing)	10 - 90%
Timer	1-15 minutes
Display	LED
Temperature Controller	N/A
Sound Abating Chamber	Optional



300V/T

**Features:**

Power Output	0-300WATTS
Output Frequency	20k Hz
Automatic Tuning	Yes
Microprocessor Control	N/A
Duty Cycle (Pulsing)	10 - 90%
Timer	1-15 minutes
Display	LED
Temperature Controller	N/A
Sound Abating Chamber	Optional



ULTRASONIC 3000

**Features:**

Power Output	0-300WATTS
Output Frequency	20k Hz
Automatic Tuning	Yes
Microprocessor Control	N/A
Duty Cycle (Pulsing)	10 - 90%
Timer	1-15 minutes
Display	LED
Temperature Controller	N/A
Sound Abating Chamber	Integrated

**Titanium Micro Tips (Micro Horns):**



Catalog No.	Tip diameter	Processing vol.	Indensity	Type
0-120-0005	5/32" (3.8mm)	300µl-15ml	Very high	Sttaped
0-120-0007*	1/18" (3.2mm)	500µl-10ml	Very high	Tapered
0-120-0008*	3/16" (4.8mm)	750µl-25ml	High	Tapered

\* Tapered micro tips are a 2 piece design & must be used in conjunction with the 1/2" dia. tapped tip. cat no. 0-120-0010.

**Titanium Standard Tips (Horns):**

**Solid Tips** -are machined from a single piece of Titanium & are preferred when processing liquids with high surface tension. In addition, Solid Tips are generally less likely to cause sample cross contaminations.

**Tapped Tips** -All include 1 Titanium Replacement, Flat Tip. Flat Tips should be replaced when they show signs of excessive "pitting" and intensity/performance is greatly decreased.



Catalog No.	Tip diameter	Processing vol.	Indensity	Type
0-120-0009	3/8" (9.2 mm)	5ml-200ml	High	Solid
0-120-0010	1/2" (12.7mm)	10ml-300ml	Medium-high	Tapered
0-120-0011	1/2" (12.7mm)	10ml-300ml	Medium-high	Solid
0-120-0012	3/4" (19.1mm)	25ml-600ml	Medium	Tapped
0-120-0013	3/4" (19.1mm)	25ml-600ml	Medium	Solid
0-120-0014	1" (25.4mm)	50ml-1000ml	Low	Tapped
0-120-0015	1" (25.4mm)	50ml-1000ml	Low	Solid

**Titanium Replacement Flat Tips:**



Catalog No.	0-120-0016	0-120-0017	0-120-0018
Tip diameter	1/2" (12.7mm)	3/4" (19.1mm)	1" (12.7mm)

**Titanium Cup Tips:**

It provide an easy way to process samples without direct exposure to the homogenizer tip, avoiding cross contamination. Titanium Cup Tips can simultaneously process sealed vial, test tubes or micro tubes with identical parameters.



**Micro Tube Tray Holders**

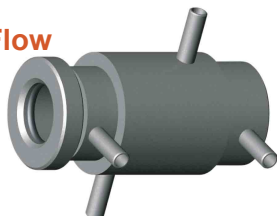


Catalog No.	Tip Diameter	Resrvoir Vol.	Indensity
0-120-0019	1 1/2" (38.1mm)	250ml	Medium
0-120-0020	2" (50.8mm)	2000ml	Low

Catalog No.	0-120-0021	0-120-0022
No. of tubes	8	20

**Continuous Flow Chamber:**



This chamber permits continuous processing of liquids, and is designed for emulsifying and homogenizing applications. The continuous flow chamber may be sealed in a closed system when mounted, so that infectious materials can be used. It is equipped with a water flow-through cooling jacket to enable the temperature of the processed solution to be maintained at a desired level.