

## Ultrasonic Probe Sonicator

**MODEL: PRO-650**

With Sound Proof Enclosure (in-built)



### SALIENT FEATURES:

- Microprocessor controlled & completely programmable
- Large 8" touchscreen display
- Temperature indicator & max temp. alarm
- Motorized operation table for ease
- Auto-frequency for convenience & optimal processing
- Variable power setting
- Auto frequency tracking
- Safety Alarms

### SPECIFICATIONS:

Model	PRO-650
Make	Galaxy
Frequency	18-28 kHz Auto Tracking
Frequency tracking accuracy	1 Hz real-time tracking
Processing Capacity	0.5ml to 500 ml
Standard Probe	Ø 6 mm (1/4")
Display	8" Touchscreen
Display Function	Temperature, Power, Time, Pulse ON/OFF Time
Temperature Range	0-99°C
Timer	Yes upto 99 hours, 59 mins, 59 secs
Alarm Functions	Over temperature, over current, over load, transducer abnormality, etc.
Operating Table	Electrically operated motorized
Lighting	Available inside cabinet
Data Memory	9 Memory Group
Output Power	650W (adjustable)
Dimensions	280 x 280 x 490 mm / 10.2 kgs

### STANDARD

### ACCESSORIES:

- Ø 6 mm Probe
- Power cord
- Temp. Probe (fitted)
- Soundproof box (fitted with main instrument)
- Instruction Manual

## Various size probes for Probe Sonicator

Also known as Horns

Horns (also known as probes) are made from titanium and machined to specific sizes and shapes. When driven at their resonant frequency, they expand and contract longitudinally. This mechanical vibration is amplified and transmitted down the length of the probe. In liquid, the probe causes cavitation which constitutes the main mechanism for sample processing.

Choosing the appropriate horn is extremely important. The sample volume to be processed is directly related to the tip diameter. Smaller tip diameters (Microtip probes) deliver high intensity sonication, but the energy is focussed within a small, concentrated area. Larger tip diameters can process larger volumes, but offer lower intensity.



### SPECIFICATIONS:

Part Number	Tip Diameter	Processing Capacity	Power Ratio	Amplitude (microns)
PPS-2	Ø 2	0.5 ~ 5 ml	1 ~ 40%	320 µm
PPS-3	Ø 3	3 ~ 10 ml	1 ~ 50%	380 µm
PPS-6	Ø 6	10 ~ 100 ml	1 ~ 70%	200 µm
PPS-8	Ø 8	20 ~ 200 ml	1 ~ 80%	160 µm
PPS-10	Ø 10	30 ~ 300 ml	1 ~ 90%	140 µm
PPS-12	Ø 12	50 ~ 500 ml	20 ~ 95%	120 µm



Amplitude mentioned is calculated at 100% power.

Spare/Additional Probes are to be attached with a set of wrenches especially designed for easily removing & attaching the probes to the ultrasonic convertor.

