# Q700 Sonicator

The Q700 Sonicator is the most technologically advanced ultrasonic processor available today. Improved internal circuitry provides more efficient operation and sample-to-sample consistency, ensuring that you can obtain reproducible results. The touchscreen interface enables easy programing and access to the Q700's unmatched feature set. Full amplitude control from 1-100% better enables users to define optimum settings for efficient sample processing in challenging applications.

We turned up the power, giving the Q700 Sonicator a maximum power output of 700 watts, more than most benchtop / laboratory-scale ultrasonic systems. This enables the Q700 to process larger volumes and utilize a wider range of accessories. The Q700 is the most sophisticated and versatile Sonicator available today.





### **FEATURES:**

### **FULL AMPLITUDE CONTROL**

Amplitude (intensity) is controlled from 1-100% giving a greater degree of resolution and the ability to pinpoint the amplitude needed to effectively process your sample.

### **PROGRAMMABILITY**

Parameters including processing times, pulse on/off and amplitude can be saved to memory and run by the touch of a button.

### **PULSE MODE**

Adjustable pulse On and Off times to reduce the heat gain in temperature sensitive samples.

### **TEMPERATURE MONITORING**

An optional temperature probe is available for those customers who wish to monitor the temperature of their sample. If the temperature limit is reached, sonication shuts down to prevent overheating.

### **PROCESSING VOLUME**

 $0.2 - 1,000 \text{mL}^*$ 

## RUN MULTIPLE PROGRAMS IN SEQUENCE

Multiple programs can be run in sequence. For example, the unit can be programmed to sonicate at 50% amplitude for 5 minutes, shut off for 2 minutes and re-start at 25% amplitude for 10 minutes. Up to 5 programs can be run in succession.

### **TOTAL ENERGY OUTPUT DISPLAY**

Energy delivered to the probe is displayed in both Watts and Joules.

### **AUTO TUNING**

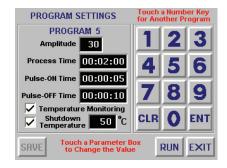
The Sonicator digitally tracks frequency changes in the converter / tip assembly caused by load and temperature changes and maintains electrical efficiency at all times. Manual tuning is unnecessary.

### **OVERLOAD PROTECTION**

The unit is equipped with fault detection circuitry to shut down sonication in the event that a fault occurs.

### **TOUCH SCREEN CONTROL**

A large, color LCD screen clearly displays all operating parameters and options. Intuitively and quickly access any of the sonicator's functions with a simple touch.





### PART NO. Q700 INCLUDES:

- Generator
- Converter
- 1/2" (13mm) diameter probe
- Power cable
- Converter cable
- Wrench set

TECHNICAL SPECIFICATIONS:	
Power Rating:	700 watts
Frequency:	20kHz
Programmability:	10 memories plus sequencing
Programmable Timer:	72 hours
Adjustable Pulse On/Off:	1 second to 24 hours
Dimensions (W x L x H):	8 x 15.25 x 8.5 in. (203 x 387 x 216 mm)
Voltage:	110V, 50/60Hz

Specify desired voltage for export.

<sup>\*</sup>Processing volume is application specific and will vary depending on many factors.

