

5 Technical Specifications

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5.1 Technical Specifications

The following table outlines the technical specifications for the Digital Sonifier:

Controls and Displays	Digital keypad entry for parameters; 4-line x 20 character LCD display; rotary Amplitude output control; remote terminal control; printer output; main power switch, temperature probe input
Amplitude control	Adjusts amplitude of power supply output voltage. Range: 10% – 100% of nominal converter amplitude
Duty Cycle	Intermittent – pulse duration adjustable [0.1 seconds – 59.9 seconds] or continuous processing time
Horn Frequency	19.850 – 20.050 kHz
Line Voltage	115V ± 10% @ 50/60 Hz (North American unit) 200-245 ± 10% @ 50/60 Hz (Export only)
Power	250 – up to 200 watts* 450 – up to 400 watts*
Temperature (ambient)	Operating: 41°F (5°C) to 104°F (40°C). Storage and shipping: -20°F (-29°C) to 158°F (70°C)
Tuning	Factory set, no tuning necessary. No user-accessible adjustments.

* Amplitude control at maximum setting. (System settings are covered in Chapter 6.)

5.2 Physical Description

The following table outlines the physical characteristics of the Digital Sonifier.

Converter Weight	4 lbs. (1.8 kg) with horn
Converter Length	7 inches (180 mm)
Converter Diameter	2-1/2 inches (60 mm)
Horn Tip Diameter	1/8 inch – 1.0 inch (3.2 – 25.4 mm), depending on process needs and Accessory Tip selected
Power Supply Weight	17 lbs. (7.7 kg)
Temperature Probe	Omega Technologies model #OL-703-PP. It is 0.125 inches in diameter and 4.5 inches long