

Sonicator[®] 740 Specifications

General Specifications:

ETL and C-ETL Listed:	Model ME 740 (9801427)
Input:	100-240 VAC $\pm 10\%$
Frequency:	60Hz ± 3 and 50Hz ± 3
Input Current:	less than 0.6 amps
Optional Battery:	Rechargeable Smart Lithium Ion Battery Pack rated at 10.8V and 4.8Ah
Patents:	U.S. and foreign patents applied for and granted including U.S. Patent Numbers 4,966,131 and 5,095,890
Timer Accuracy:	$\pm 10\%$ of the indicated time
Maximum treatment time:	29 minutes
Size:	13.5 in (L) x 9.5 in (W) x 7 in (H)
Weight:	3.75 pounds without battery 4.5 pounds with battery

Ultrasonic Generator Specifications:

Frequency:	1.0 MHz $\pm 10\%$ 3.2 MHz $\pm 10\%$ 3.3 MHz $\pm 10\%$
Modes:	Continuous Pulsed 10, 20 and 50% Duty cycle
Pulse repetition rate:	100 Hz $\pm 5\%$ (Pulse Mode)
Pulse duration:	1, 2 or 5 msec $\pm 5\%$
Temporal peak/average intensity ratio:	10:1, 5:1 and 2:1 $\pm 5\%$
Maximum output power:	22 W with a 10 cm ² applicator, (ME 7410) 11 W with 5 cm ² applicator, (ME 7413) 2.2 W with a 1 cm ² applicator (ME 7431)
Maximum intensity:	2.2 W/cm ²
Indication accuracy:	$\pm 20\%$ (for any level above 10% of maximum)

Ultrasonic Applicator Specifications:

Piezoelectric discs: The output transducer utilizes a barium titanate disc with a specially coated face.

Individual Applicator Specifications:

Applicator Part Number	Frequency	ERA
ME 7513	1 and 3.2 MHz $\pm 10\%$	5 cm ² $\pm 20\%$
ME 7310	1 MHz $\pm 10\%$	10 cm ² $\pm 20\%$
ME 7331	3.3 MHz $\pm 10\%$	1 cm ² $\pm 20\%$

Maximum Beam Uniformity Ratio: 6:1

