

Sonicator[®] 740 Specifications

General Specifications:

Classification:	Protective Class I Equipment Type B Equipment
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
Timer Accuracy:	$\pm 10\%$ of the indicated time
Maximum treatment time:	29 minutes
Size:	34,3 cm (L) x 24,1 cm (W) x 17,8 cm (H)
Weight:	1,7 kg without battery 2,1 kg 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%
Modulation Frequency:	100 Hz $\pm 5\%$
Modulation Period:	1, 2 and 5 msec $\pm 5\%$
Temporal Peak/ average intensity ratio:	10:1, 5:1 and 1:1 $\pm 5\%$
Maximum output power:	22 W with a 10 cm ² applicator, (ME 7310) 11 W with 5 cm ² applicator, (ME 7513) 2,2 W with a 1 cm ² applicator (ME 7331)
Maximum intensity:	2,2 W/cm ² with all applicators
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	Area
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 Effective Intensity Ratio: 2:1

