SONOSYS® Megasonic System with Slim Line Generator for Single Nozzle 1 MHz / 2 MHz / 3 MHz / 4 MHz

Function

The transducer in the Megasonic Nozzle generates a Megasonic wave, which is transmitted through a flowing liquid (e.g.: DI-water) to the surface of the substrate. The Megasonic energy is concentrated on a small point of 4 mm.
This tankless Megasonic Nozzle system provides advanced non contact cleaning processes.

Application

Cleaning of Single Wafers, Masks, LCD's, Substrates and Micro Electro Mechanical Systems (MEMS).

Technical data modular Megasonic Generator Slim Line

Electrical data

Output power:	35 Watt / **MLM 1** 70 Watt / **MLM1 & MLM 2** **MLM = M**egasonic **L**ow Power **M**odule
Output power adjustment:	Approx. 20 % - 100 %
Frequency:	950 kHz to 1.05 MHz / 1.95 MHz to 2.05 MHz 2.95 MHz to 3.05 MHz / 3.95 MHz to 4.05 MHz
Mains voltage:	110 VAC or 230 VAC; 50 – 60 Hz
Option:	RS 232 Interface, CAN open

Mechanical data

Housing:	19" enclosure 3/4 SU
Dimensions:	28 HP; approx. 165x185x329 mm (WxHxD)
Weight:	Approx. 5.2 kg

Operational conditions

Ambient temperature:	+ 10°C to + 40°C
Condensed moisture is to be prevented! Protected from humidity, dirt and aggressive vapours.	

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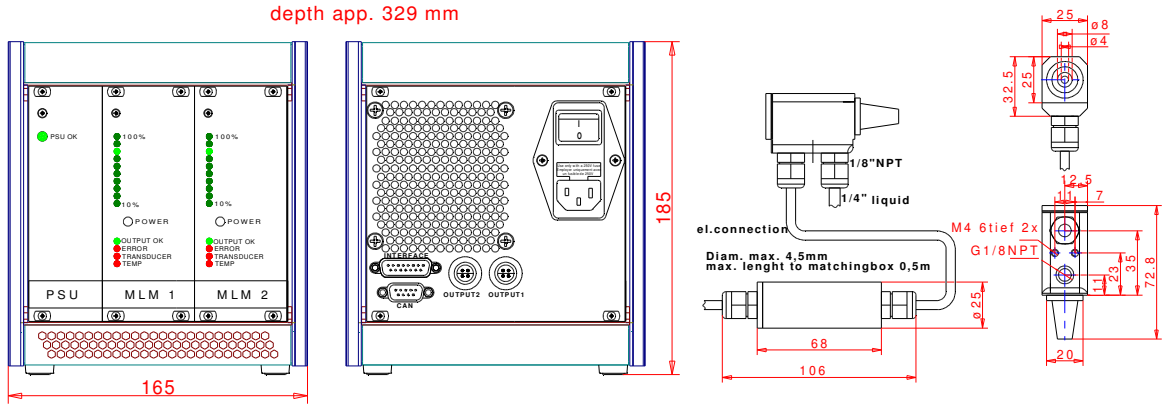
Technical data Megasonic Single Nozzle

Electrical data

High Frequency Input:	35 Watt / 1 MHz / 2 MHz / 3 MHz / 4 MHz
Transducer Element:	Special PZT-Piezoceramic
HF-Cable:	Screened; Length: 3 m; Ø4.5 mm; Material: PTFE
Cable length between nozzle and matchingbox:	Standard 20 cm; Maximum 50 cm

Mechanical data

Weight:	Approx. 0.25 kg
Supply for Liquid Medium:	1/8" NPT
Amount of Liquid Medium Flow:	min. 1.0 l / minute - max. 1.6 l / minute (max. Pressure 5.5 bar)
Liquid temperature:	Approx. 20°C – 50°C
Distance between the nozzle output and the object to be cleaned:	5 mm to 20 mm



Front View Back View

Order data Megasonic Generator 35 Watt

Order Number	Mains Input Voltage	Frequency
13401-060	230 VAC	1 MHz
13405-060	230 VAC	2 MHz
13407-060	230 VAC	3 MHz
13406-001	230 VAC	4 MHz

Order data Megasonic Single Nozzle

Order Number	Material	Effective Diameter	Frequency
13790-018	PTFE / Quartz glass tip	4.0 mm	1 MHz
13792-002	PTFE / Quartz glass tip	4.0 mm	2 MHz
13791-050	PTFE / Quartz glass tip	4.0 mm	3 MHz
13794-001	PTFE / Quartz glass tip	4.0 mm	4 MHz

Data sheet:	Revision:	Date:
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