SONOSYS® Ultrasonic / Megasonic System with Submersible Transducer in PVDF for 8" substrates

Function

Completely encapsulated Submersible Transducers made of PVDF to be positioned at the bottom or at the side wall of an existing tank. Besides the standard systems for 4", 6" and 8" substrates, custom specific solutions are offered. This flexible configuration allows a convenient retrofit with a Megasonic system in an existing process or experimental tank. All over the world, SONOSYS® stands for unique and future-secured solutions. The extremely uniform energy transmission ensures a hitherto-unachieved cleaning performance of particles down to the nano range, while at the same time providing the best protection to the microstructures.

Unique in the world: our transducer systems, with patented piezoceramics with Butterfly-Technique, achieve a **40% higher sound pressure** or an **up to 30% higher efficiency** than other systems.

Applications

Optic:	Cleaning of optical components before coating
Semiconductor & Photovoltaic:	Cleaning of wafer and masks, process support of the wet-chemical production of semiconductor products
Mikro-/Nano-Technology:	Cleaning of parts and microsystems, support of the development process in the LIGA –Technique
Medical:	Cleaning of implants

Technical data modular Ultrasonic / Megasonic Generator

Electrical data

Frequency / Output power:	400 kHz / 2000 Watt
	600 kHz / 2000 Watt
	1 MHz / 2000 Watt
	2 MHz / 1200 Watt
Output power adjustment:	Approx. 10 % - 100 %
Mains voltage:	230 VAC; 50 – 60 Hz

Mechanical data

Housing:	19" enclosure 3/4 SU
Dimensions:	84 HP; approx. 450x185x395 mm (WxHxD)
Weight:	Approx. 14 kg

Operational conditions

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

SONOSYS® Ultraschallsysteme GmbH Daimlerstraße 6 – 75305 Neuenbürg / Germany
Phone +49-(0) 70 82 / 791 84-0 – Fax + 49-(0) 70 82 / 791 84-99 Internet: www.sonosys.de – E-Mail: info@sonosys.de

Technical data Ultrasonic / Megasonic Submersible Transducer in PVDF

Material:	PVDF-housing with PFA coated Transducer plate
Transducer Array:	Special PZT-Piezoceramic (Butterfly-Technique)
Transduced area:	approx. 205 x 220 mm; **completely continuous active area**
HF-cable:	4 pieces Coax-cable with N-plug; Length: 3 m thereof 1m in PTFE hose with PTFE-corrugated tube
Liquid temperature:	up to max. **+60°C**
Storage- and Transport temperature:	not less than **-10°C**
Weight:	approx. 10,0 kg

Order data Ultrasonic / Megasonic Submersible Transducer in PVDF

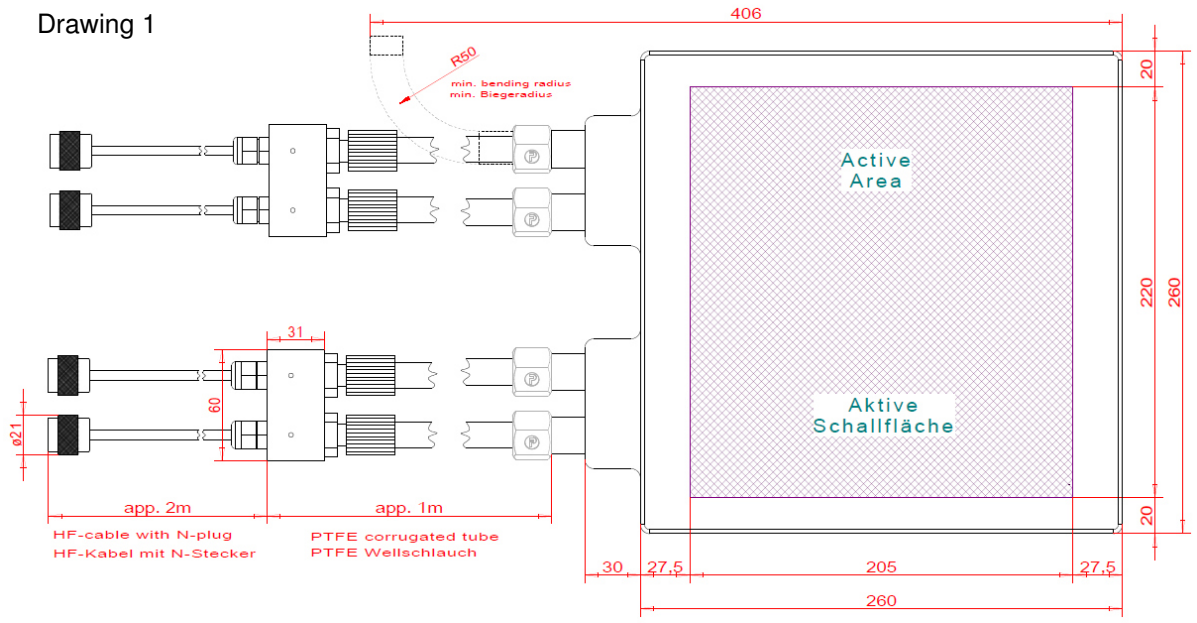
Order-No.	Frequency/Output power	Cable outlet	Outer dimensions	Drawing
13804-213	400 kHz / 2000 Watt	Straight cable outlet	260 x 260 x 35 mm Drawing 1	1
13804-215	600 kHz / 2000 Watt			
13800-233	1 MHz / 2000 Watt			
13802-107	2 MHz / 1200 Watt			
13804-212	400 kHz / 2000 Watt	Angled cable outlet	290 x 260 x 35 mm Drawing 2	2
13804-214	600 kHz / 2000 Watt			
13800-232	1 MHz / 2000 Watt			
13802-106	2 MHz / 1200 Watt			

Order data Ultrasonic / Megasonic Generator

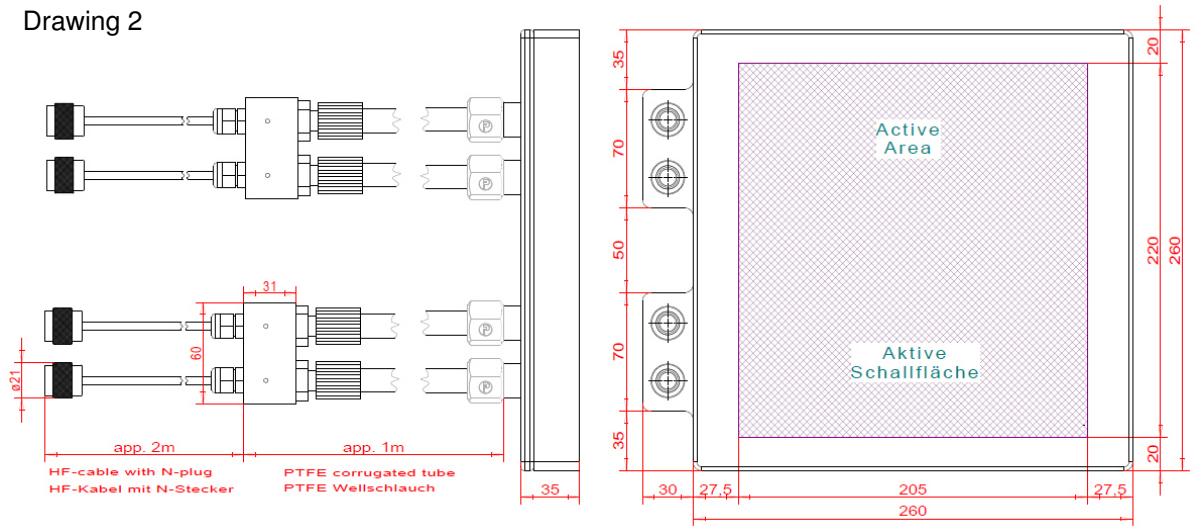
Frequency	Output power	Power adjustment	Order-No.
400 kHz	2000 Watt	internal	13404-608
400 kHz	2000 Watt	external	13404-609
600 kHz	2000 Watt	internal	13404-702
600 kHz	2000 Watt	external	13404-703
1 MHz	2000 Watt	internal	13401-702
1 MHz	2000 Watt	external	13401-707
2 MHz	1200 Watt	internal	13405-600
2 MHz	1200 Watt	external	13405-601

SONOSYS® Ultraschallsysteme GmbH Daimlerstraße 6 – 75305 Neuenbürg / Germany
Phone +49-(0) 70 82 / 791 84-0 – Fax + 49-(0) 70 82 / 791 84-99 Internet: www.sonosys.de – E-Mail: info@sonosys.de

Drawing 1



Drawing 2



Datenblatt:	Änderung:	Datum:
Vers. 1.1	First Edition Original GER	04.10.2014
Vers. 1.2	Unified housing design for all frequencies	11.12.2014

SONOSYS® Ultraschallsysteme GmbH Daimlerstraße 6 – 75305 Neuenbürg / Germany
Phone +49-(0) 70 82 / 791 84-0 – Fax + 49-(0) 70 82 / 791 84-99 Internet: www.sonosys.de – E-Mail: info@sonosys.de