

## Ultrasonic tube resonator

High output ultrasound for industrial cleaning

### Advantages at a glance

- Easy to fit and remove
- Robust design for long service life
- Consistent and reproducible cleaning results
- High energy efficiency



Ultrasonic tube resonators are not only robust and space-saving, but also offer many advantages which are highly desirable by manufacturers of cleaning systems. The high-performance components can be easily integrated into systems with different geometries and, thanks to the radial radiation surface, generate an intensive and homogeneous ultrasonic field for the most demanding cleaning requirements. The design, which has been proven over many years, and the high quality of materials and workmanship guarantee high efficiency and the long service life of components.

### Application areas

- Cleaning of end and intermediate products
- Equipment care
- Maintenance

### Industries

Manufacturer of cleaning installations for:

- Automotive
- Electronics
- Chemical
- Electroplating
- Precision engineering
- Power stations
- Metal
- Optics and glass
- Aviation

### Characteristics and advantages

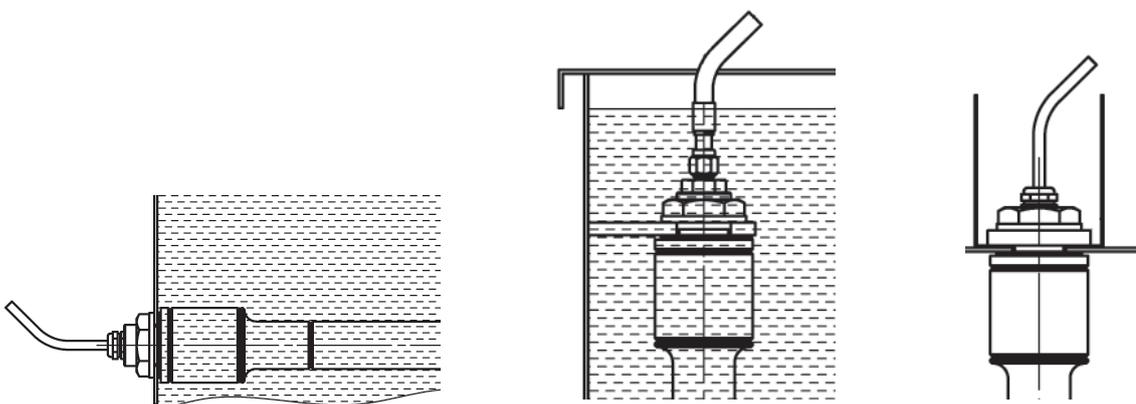
- Intensive and homogeneous ultrasonic field due to radial characteristics
- Low weight and volume, suitable for installing in confined spaces
- Suitable for installation in pressurised and vacuum containers
- No deposit on the radiation surface
- Ideally suited for retrofitting into existing tanks
- Different lengths to suit different applications
- High degree of efficiency (> 92 %) means reduced energy consumption



Tube resonators

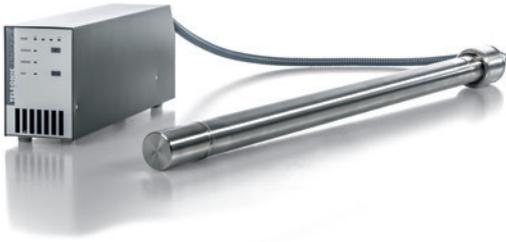


Working frequencies	20 kHz	25 kHz		40 kHz
Tube diameter	48 mm	48 mm	55 mm	40 mm
Lengths	407–1840 mm	476–1139 mm	532–1180 mm	340–584 mm
Power effective	850 W	750 W	1200 W	450 W
Power maximal	1000 W	1500 W	2000 W	1000 W
Fixing thread	G 1 1/4"	G 1"		G 1"
Connection options	<ul style="list-style-type: none"> <li>■ 4 m HF cable</li> <li>■ 4 m HF cable with 2 m stainless steel conduit</li> <li>■ 4 m HF cable with 2 m stainless steel conduit and 90° angle connector</li> <li>■ Customer-specific</li> </ul>	<ul style="list-style-type: none"> <li>■ 1 m HF cable with 1 m plastic conduit</li> <li>■ 4 m HF cable with 2 m stainless steel conduit</li> <li>■ 4 m HF cable with 2 m stainless steel conduit and 90° angle connector</li> <li>■ Customer-specific</li> </ul>	<ul style="list-style-type: none"> <li>■ 4 m HF cable</li> <li>■ 4 m HF cable with 2 m stainless steel conduit</li> <li>■ 4 m HF cable with 2 m stainless steel conduit and 90° angle connector</li> <li>■ Customer-specific</li> </ul>	
Protection type, incl. connector	IP67	IP67		IP67



## Available options

### Options



Generator ECO available in 20, 25 and 40 kHz with power up to 2000 Watts.



Generator MAG-C available in 25 kHz with power up to 2400 Watts.  
Optimal PROFINET bus module for integration into the higher level controller PLC.

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