



High Efficiency
Advanced Cleaning Generators



POWERHOUSE OF ULTRASONIC TECHNOLOGY





ACG Series

The success of a large cleaning system depends mainly on Ultrasonic Generators and Transducers. We offer efficient Advanced Cleaning Generators. Due to their compact design they require less space and are usable in a raw environment. This is allowed by an indirect cooling which ensures that the cooling air does not get in contact with the electronic components.

The inputs and outputs are specifically constructed for the machine builders and offer all possibilities of external controls. Due to the process control, it is possible to archive special generator settings with an interface adapter and a terminal.

The generators all purpose housing allows the application as a table top version in 19" switchboards or DIN- rails. The ACS power spectrum includes 750 W to 1500 W for tube resonators and immersing transducers.

Specifications

4.3" Color – Touch TFT option Option to perform all required operations from GUI Blind Version Option
RS 485 Modbus RTU communication
DB 25 connector – digital IOs for control & monitoring
HyperTerminal – PC connectivity on RS 485



Unique Features

- Latest MCU controlled
- Fully automatic IGBT based
- Auto power monitoring & control
- Designed for tube resonator, immersing transducers and transducer plate fitted to tank
- Optimum frequency under all load conditions
- Optimum power output with all variations of temperature, solution level and work load
- Wave pulse modulation for highest cavitation, resulting highly uniform cleaning
- Equipped with all necessary safety interlocks
- Five Dc-isolated 24V inputs, for external power setting for instance
- Over-temperature and over-current turn off
- Protected against short-circuit and no-load operation
- Coefficient of efficiency >90%
- Fully automatic control and monitoring
- Table Top housing, 19" Rack mounted version, DIN-rail-mounting or wall fastening



**20 - 170 kHz (Automatic Control)
Frequency Range**



**600 - 1500 Watts
Power Output**



105×155×390 mm



Advanced Features

- SD card data storage option
- USB & Ethernet interface
- High end PC software
- Automatic Degas option
- Pulse & continuous mode selection & parameters
- Sweep mode with selection & parameters
- Triangular, Saw-tooth & Random wave selection & parameters
- Boost mode with selection & parameters
- Real Time Clock adjustment option
- Real Time Clock controlled ux. on trigger with selection & 6 time channel settings
- Ux. on time & all other required functional settings
- GUI messages, warnings & faults monitoring with TFT option

This novel design of transducer in tubular form ensures ultrasonic in all 360° and ease in retrofitting in existing system. This is available in various frequencies and different mounting lengths.

- Very intensive and homogeneous sound field due 360° to radiation
- No delicate adhesive points or seals
- Low weight and volume allows a mounting in confined spaces
- Possible to mount in pressure and vacuum tanks
- No dirt deposit onto the radiation surface
- Ideal for retrofit in existing tanks
- Minimum radiation in axial directions
- Multiple application, thanks to different mounting lengths
- Low power consumption due to high coefficient of efficiency (>92%)
- Suitable for large output powers
- Frequency range: 25 & 40 kHz
- Very long life



Tube Resonators

Immersible box is available in different sizes & dimensions with different output power.

- Easy to install, they are simply placed or fixed in the cleaning tank
- Laser welded body
- Custom shapes possible
- Single frequency 30 kHz, 40 kHz, 68 kHz, 80 kHz, 120 kHz & 170 kHz, other frequencies can be customized
- Dual frequency 30/68 kHz, 40/80 kHz & 40/120 kHz
- Temperature resistance
- Homogeneous sound field through optimal array of the transducer elements
- Suitable for many ultrasonic cleaning applications



Immersible Box

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