

Precision Cleaning



GCX Ultrasonic Generator

Emerson's Branson GCX Ultrasonic Generator delivers ultrasonic energy in a wide range of frequencies to ultrasonic cleaning systems. A basic cleaning system typically consists of an ultrasonic generator and a cleaning tank or immersible transducers. The auto tuning, line/load regulation and sweep frequency features of the GCX Ultrasonic Generator provide a more precise control of cleaning process and performance.

TOP DIFFERENTIATORS:

- User-friendly, advanced touchscreen HMI provides easy access to system data and setup
- Digital control of sweep frequency & power offers more precise control for accuracy and consistency
- Compact design allows maximization of space in a wide variety of environments
- Multi-language settings: English, Chinese and Japanese

KEY FEATURES

- **Line/load regulation** compensates for liquid level and temperature changes as well as line voltage and load variations
- **True variable power control** makes the cavitation intensity (not duty cycle) infinitely and linearly variable from 20% to 100%
- **Selectable sweep frequency** allows the user to select both band width and sweep rate to eliminate standing waves and improve activity distribution
- **Auto tuning** maintains optimum operating frequency around your application
- **Power modulation mode** produces four times the peak power in the bath for improved cavitation
- **Dual I/O interface** with a built in simple on/off control and an optional full remote control of generator.
- **Safety features** to protect the generator include over-temperature, overload, open circuit and short circuit

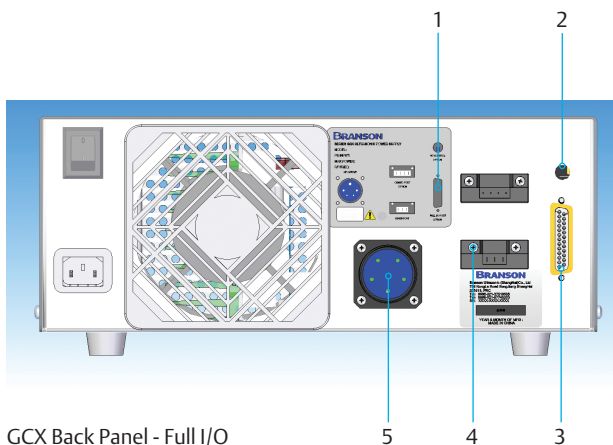
OVERVIEW

Element Configurations	6, 12, 18, 24, 36, 48
Input Voltage	110 V, 220 V*
Average Output Power	40 Watts per element
Output Frequency	25, 40, 80, 120, or 170 kHz
Regulatory Approvals	FCC and CSA
Dimensions	13.2"W x 19.1"D x 5.7"H 335mm W x 485mm D x 145mm H
Weight	30 lb. (13.6 kg)

*See configuration matrix for available voltage levels.

ELEMENTS

	6	12	18	24	36	48
25 kHz		110-120V +/- 10% 220-230V +/- 10%	220-230V +/-10%	220-230V +/-10%	220-230V +/-10%	220-230V +/-10%
40 kHz	220-230V +/-10%	110-120V +/- 10% 220-230V +/- 10%	220-230V +/-10%	220-230V +/-10%	220-230V +/-10%	220-230V +/-10%
80 kHz		220-230V +/-10%	220-230V +/-10%	220-230V +/-10%		
120 kHz		220-230V +/-10%	220-230V +/-10%	220-230V +/-10%		
170 kHz		220-230V +/-10%				



GCX Back Panel - Full I/O

ITEM #	DESCRIPTION	FUNCTION
1	OEM Connection	External Control Ultrasonic On/Off.
2	Local/Remote switch SW1	Allows switching between local and remote operation.
3	I/O 25-pin D-shell connector (I/O option only).	Provides connection of cable from ultrasonic power supply to external controller.
4	RS485 Communication	Display the current time and power.
5	RF Connector	For connecting the RF cable to the ultrasonic power supply from a tank or immersible transducers.

Americas

Branson Ultrasonics Corp.
41 Eagle Road
Danbury, CT 06813-1961
T: 203-796-0400
F: 203-796-9838
www.Emerson.com/Branson

Europe

Branson Ultraschall
Niederlassung der Emerson
Technologies GmbH & Co. OHG
Waldstrasse 53-55
63128 Dietzenbach, Germany
T: +49-6074-497-0
F: +49-6074-497-199
www.Emerson.com/Branson

Asia

Branson Ultrasonics (Shanghai) Co., Ltd.
758 Rong Le Dong Road
Song Jiang, Shanghai, PRC, 201613
T: 86-21-3781-0588
F: 86-21-5774-5100
www.Emerson.com/Branson