

## 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
- Built in Timer to set time interval for ultrasonics to stay on; eliminates the need for external timer control
- 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 bandwidth 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

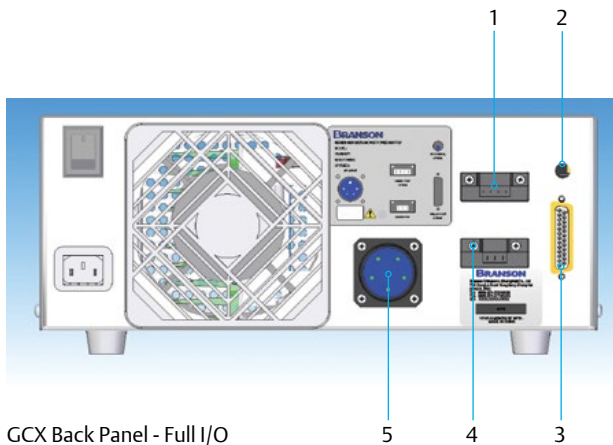
## OVERVIEW

<b>Element Configurations</b>	6, 12, 18, 24, 36, 48
<b>Input Voltage</b>	110 V, 220 V*
<b>Nominal Outout Power</b>	50 Watts per element
<b>Output Frequency</b>	25, 40, 80, 120, or 170 kHz
<b>Regulatory Approvals</b>	FCC, CSA and CE
<b>Dimensions</b>	13.2"W x 19.1"D x 5.7"H 335mm W x 485mm D x 145mm H
<b>Weight</b>	30 lb. (13.6 kg)

\*See configuration matrix for available voltage levels.

## ELEMENTS

	6	12	18	24	36	48
<b>25 kHz</b>		110-120V +/- 10% 208-230V +/- 10%	208-230V +/- 10%	208-230V +/- 10%	208-230V +/- 10%	208-230V +/- 10%
<b>40 kHz</b>	208-230V +/- 10%	110-120V +/- 10% 208-230V +/- 10%	208-230V +/- 10%	208-230V +/- 10%	208-230V +/- 10%	208-230V +/- 10%
<b>80 kHz</b>		208-230V +/- 10%	208-230V +/- 10%	208-230V +/- 10%		
<b>120 kHz</b>		208-230V +/- 10%	208-230V +/- 10%	208-230V +/- 10%		
<b>170 kHz</b>		208-230V +/- 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.

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