

# ELECTRIC WATER BATH

VAPORIZERS (EWB)



Product Datasheet **2.0**



## **Thermax Electric Water Bath Vaporizers**

use electrically heated water as the heat source to vaporizer and superheat cryogenic fluids. The units ship completely factory assembled and are wired for easy installation. Standard models are available up to 2,000kW. The units include a vaporizer tube bundle, a tank for water or anti-freeze solution, electric immersion heaters, and complete controls for maintaining bath temperature.

The vaporizer bundle features Thermax In-Tube Vortex Generators to increase heat transfer and minimize pressure surges. The water ballast provides a large thermal mass that reduces both peak power demand and thermal stress, extending the life of the tube bundle.

Call for other cryogen ratings.

### **Options**

- Multiple vaporizing bundles in one tank
- Anti-stratification water circulators
- Automatic water-fill solenoid valve and control
- Custom controls designed specifically for your application
- Digital temperature controllers
- Explosion proof units up to 1,500 kW
- 240V, 600V or custom voltages
- Low temp shutdown valve and controller
- Stainless Steel shell
- SCR power control for stepless, proportional power
- Tank Insulation
- Oversized tanks for custom ballast times

### **Standard features**

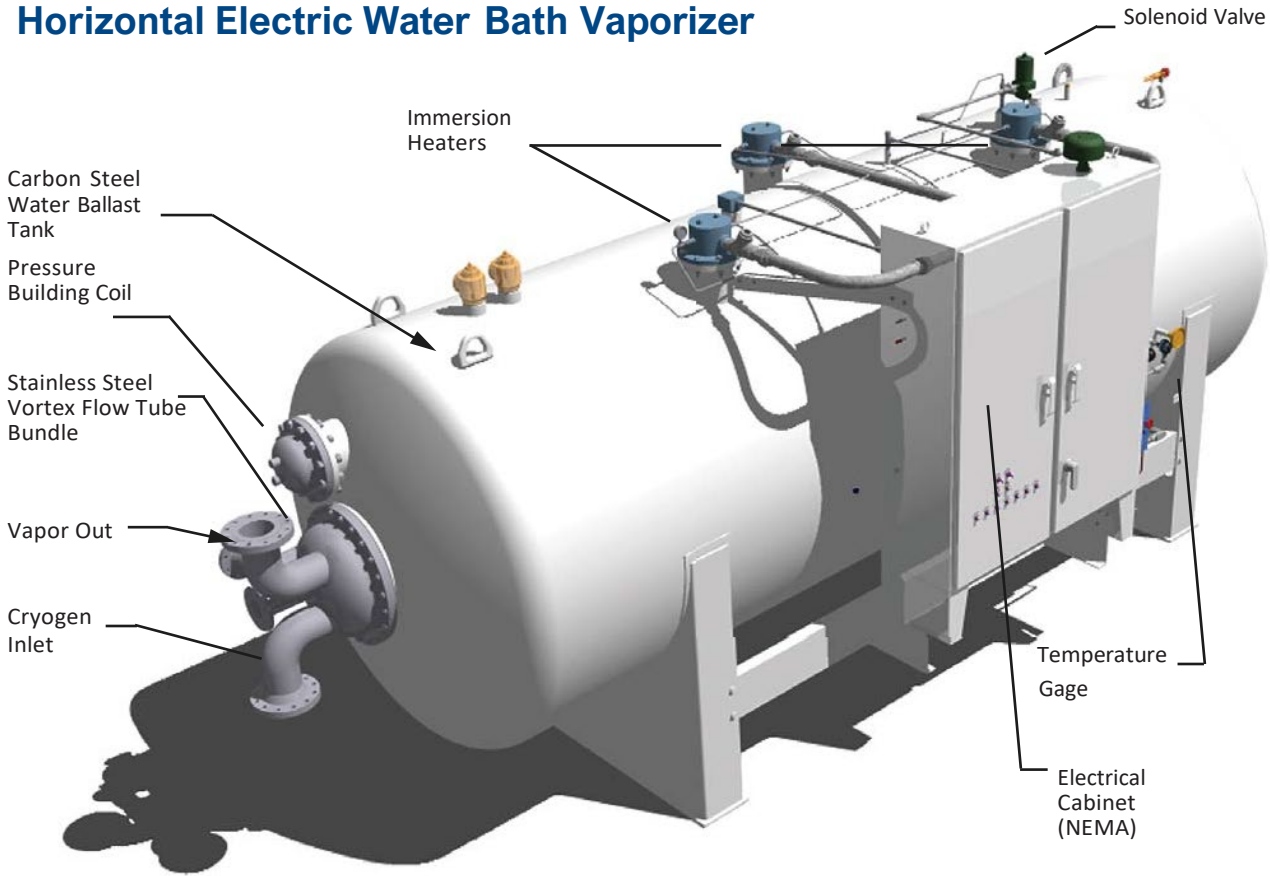
- ASME Sect VIII Div. 1 code stamp on bundle
- Carbon steel water tank, 3 minute horizontal ballast
- Flanged type immersion heaters, 480VAC, removable without draining tank
- NEMA rated panel and power controls
- Water Bath Temperature gauge
- Sight glass for water level indication
- Stainless Steel removable tube bundle with Thermax
- In-Tube Vortex Generator.
- Low water safety cutout and alarm light
- Automatic digital temperature control of water bath



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### Horizontal Electric Water Bath Vaporizer



The above rendering shows a vaporizer that is subject to change per customer specific design.

Call Chart for Ammonia, LNG, Helium and other applications

Model Ratings and Dimensions							
Model	Continuous Ratings SCFH (Thousands)				Dimensions L x W x H ft / mm	Estimated Weight Lbs/Kg (Empty)	Tank Capacity Gallons/Ltrs
	O2/N2 MSCFH	Argon MSCFH	Hydrogen MSCFH	CO2 MSCFH			
EWB 100H	25	28	35	22	12x2x3 / 3658x609x914	1500/675	200/757
EWB 250H	62	71	87	55	12x5x6 / 3658x1524x1829	2500/1125	500/1893
EWB 500H	125	142	175	111	20x5x5 / 6096x1524x1524	5000/2250	750/2839
EWB 1000H	250	285	350	222	20x7.5x10 / 6096x2286x3048	10,000/4500	2000/7570

All tables shown on this Datasheet are intended as a guide that reflect our experience on these models. Please call Chart Inc. Actual performance may vary. This product and/ or data was designed and/ or developed by Thermax Inc. and shall not be used in any way injurious to the interests of Chart Inc. Vortex-Flow™ is a Thermax Inc. Trademark.