

Electric Water Bath Vaporizers, EWB

Robust Construction with Water Ballast provides Long life and Low Maintenance.



Thermax Electric Water Bath Vaporizers use electrically heated water as the heat source to vaporize and superheat cryogenic fluids. The units ship completely factory assembled and are wired for easy installation. Standard models are available up to 2,000 kW. 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 peak power demand and also reduces thermal stress, extending the life of the tube bundle. Standard units come with a 3 minute ballast time with optional ballast times up to 30 minutes. Ratings for nitrogen, oxygen, argon, hydrogen, and carbon dioxide are shown on back.

Call for other cryogen ratings.

Standard Features

- ☒ ASME Sect VIII Div 1 code stamp on bundle
- ☒ Carbon steel water tank, horizontal or vertical, 3 minute ballast
- ☒ Flanged type immersion heaters, 480 VAC, 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

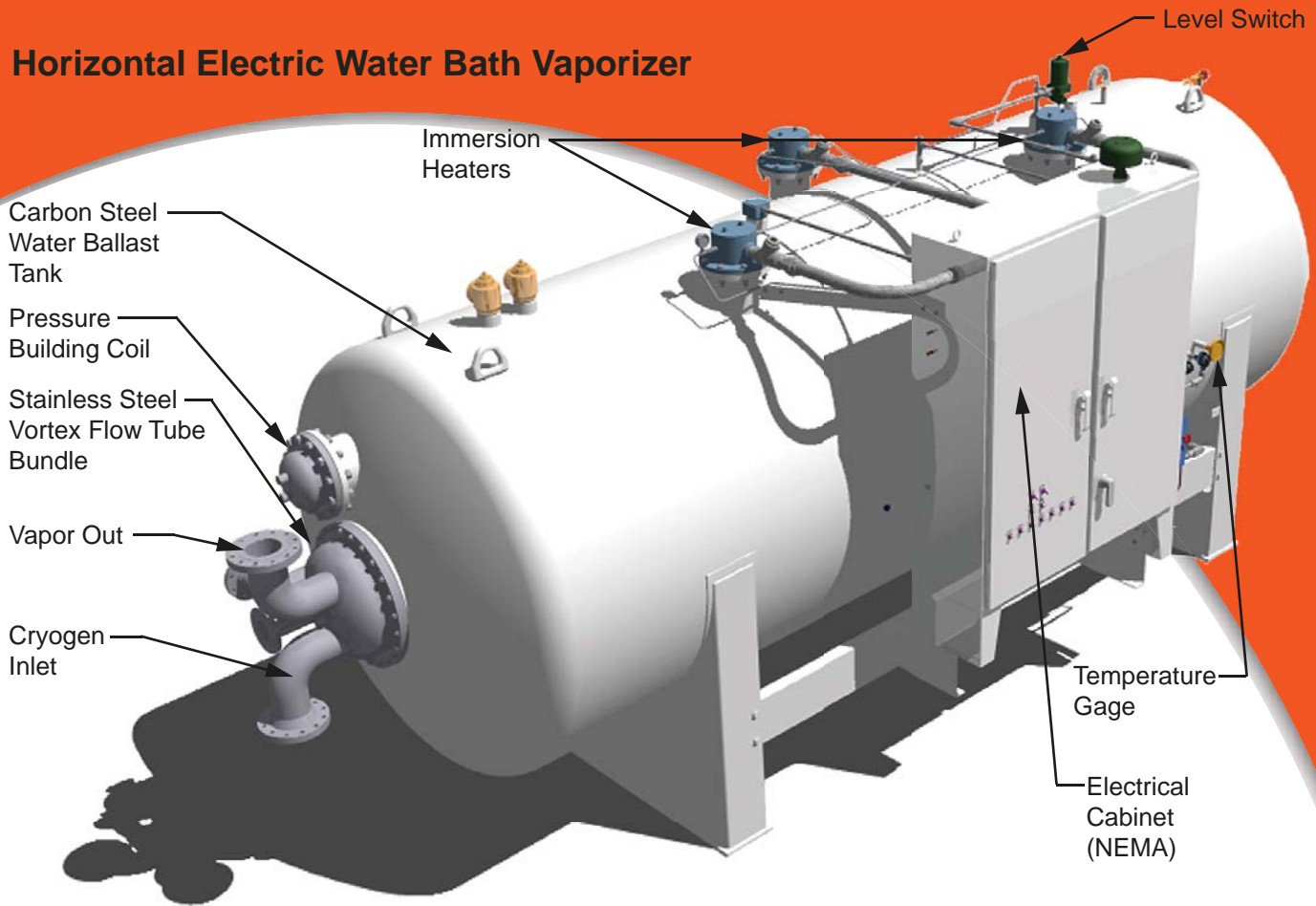
Options

- ☒ 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



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Horizontal Electric Water Bath Vaporizer



Call Thermax Inc. for Ammonia, LNG, Helium and other applications.

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

Model Ratings and Dimensions

Model	Continuous Ratings SCFH (Thousands)				Dimensions (feet) L x W x H	Estimated Weight (empty)	Tank Gallons
	O2/N2 MSCFH	Argon MSCFH	Hydrogen MSCFH	CO2 MSCFH			
EWB 40V	10	11	14	8.7	2 x 3 x 10	1,000	175
EWB 60V	15	17	21	13	2 x 3 x 10	1,000	175
EWB 100V	25	28	35	22	2 x 3 x 12	1,500	200
EWB 150V	37	43	52	32	4 x 5 x 14	2,000	350
EWB 200V	50	57	70	44	4 x 5 x 14	2,000	350
EWB 250V	62	71	87	55	5 x 6 x 12	2,500	500
EWB 300V	75	85	105	66	5 x 6 x 14	3,000	500
EWB 500H	125	142	175	111	20 x 5 x 5	5,000	750
EWB 800H	200	228	280	178	24 x 5 x 5	8,000	1,000
EWB 1000H	250	285	350	222	20 x 7.5 x 10	10,000	2,000
EWB 2000H	500	570	700	444	30 x 7.5 x 10	15,000	4,000

V= vertical tank, H= horizontal tank-all models available in vertical or horizontal tank position.

All tables shown on this Datasheet are intended as a guide that reflect our experience on these models. Please call Thermax 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 Thermax Inc. Vortex-Flow™ is a Thermax Inc. Trademark.

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