

## 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

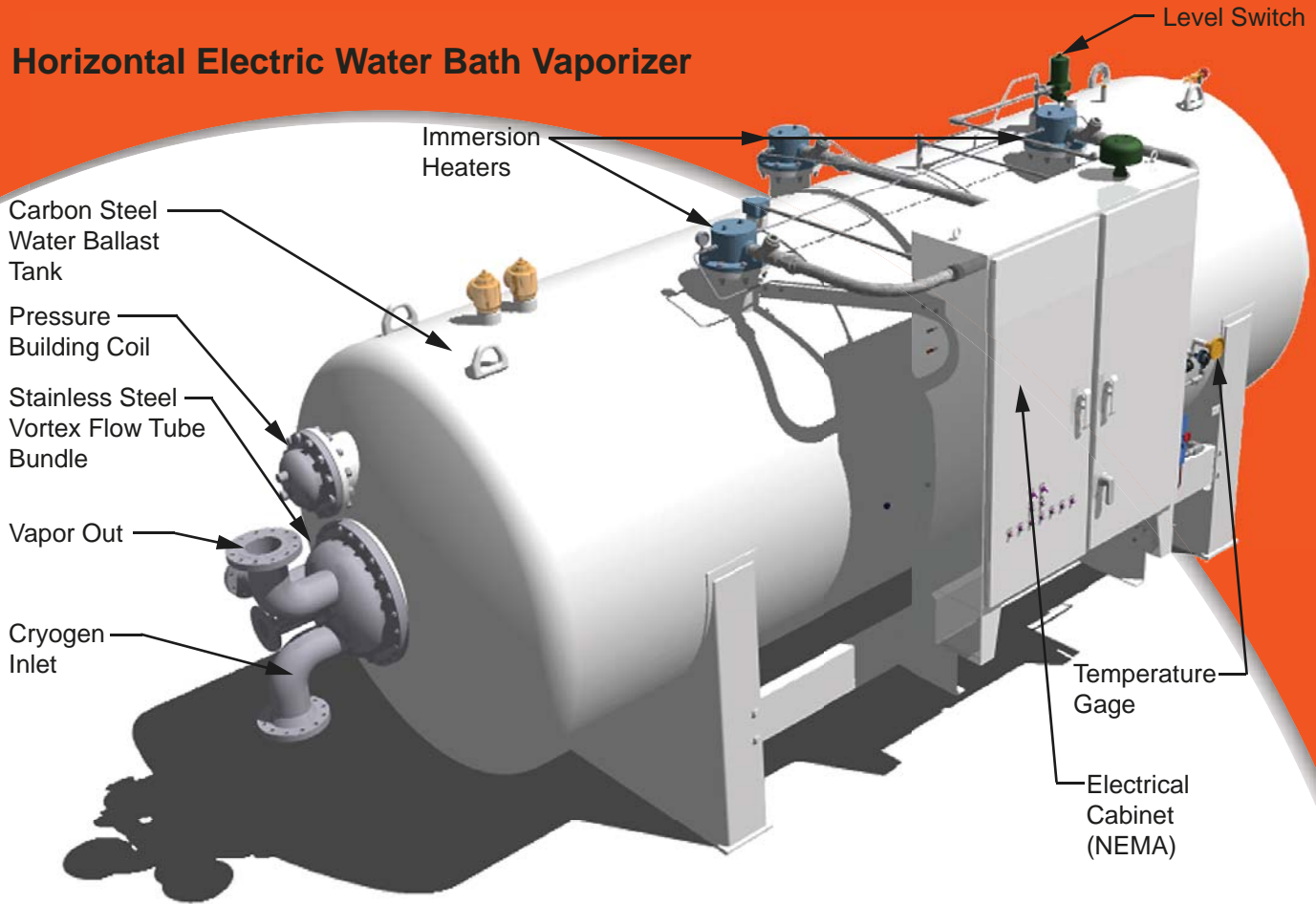
- ☒ ASME Sect VIII Div 1 code stamp on bundle
- ☒ Carbon steel water tank, horizontal or vertical, 3 minute ballast
- ☒ Flanged type immersion heaters, 480 VAC, removable without draining tank
- ☒ NEMA rated panel and power controls
- ☒ Water Bath Temperature gauge
- ☒ Sight glass for water level indication
- ☒ 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



# 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) | Estimated Weight (empty) | Tank Gallons |
|-----------|-------------------------------------|-------------|----------------|-----------|-------------------|--------------------------|--------------|
|           | O2/N2 MSCFH                         | Argon MSCFH | Hydrogen MSCFH | CO2 MSCFH | L x W x H         |                          |              |
| 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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