

PRESSURE BUILDING

AMBIENT AIR VAPORIZERS FOR BULK STORAGE TANKS



Product Datasheet **3.0.2**

Thermax Pressure Building Ambient Vaporizers

have been designed especially for maintaining pressure in bulk cryogenic liquid tanks. Liquid from the bottom of the tank feeds the vaporizer which returns vapor to the top of the tank. The low pressure drop through the vaporizer will ensure tank pressure is maintained during draw-off operations. These vaporizers use natural convection of air to vaporize liquefied gases. Finned aluminum tubes absorb heat from the ambient air and transfers that heat to produce gas. In addition to our standard aluminum construction, units are available with stainless steel and other alloy liners for high pressure and corrosive applications.

Standard features

- 600 psig MAWP standard
- ASME B31.3, CRN (all provinces), and PED category IV Module compliant
- Aluminum corrosion resistant construction
- High strength welded aluminum base frame
- Horizontal and vertical pressure building units
- Low inlet pressure and low pressure drop designs
- Withstands 100 mph winds and Zone 4 seismic forces



Options

- ASME B&PV Code, Section VIII U-Stamp
- Design pressures exceeding 15,000 psig
- Flanged, tongue & groove, butt-weld end connections
- Tank mounting, wall mounting and truck mounting
- Stainless steel, monel and other alloy liners



Possible design codes, available upon request.

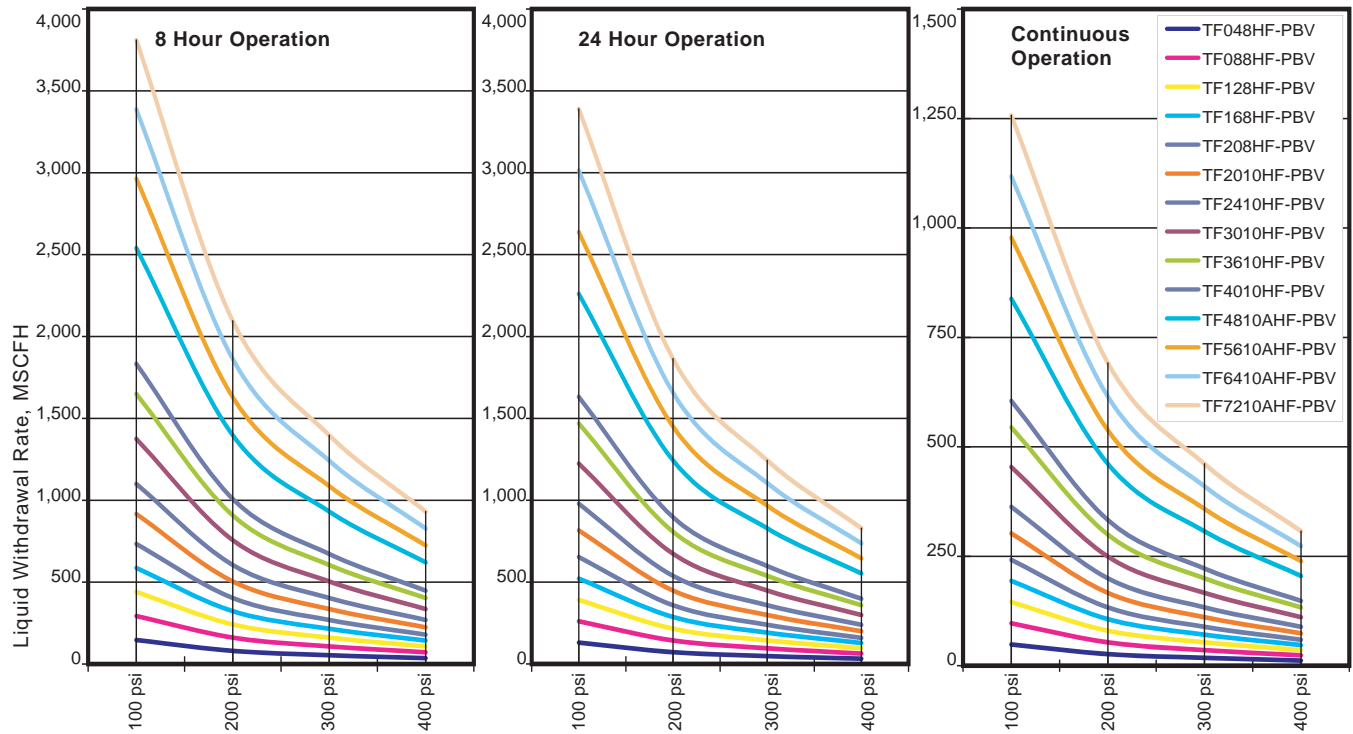


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Liquid N₂ Withdrawal Ratings for Vertical Pressure Build Vaporizer Models



Flow Path, Vertical Configuration

Model # Vertical	8 Hour Flow Rate* SCFH	Dimensions W x D x H (inches)	Inlet	Outlet	Weight Lbs.
TF048HF-PBV	3,226	18 x 19 x 118	1-1/2"	1-1/2"	115
TF088HF-PBV	6,450	19 x 38 x 118	1-1/2"	1-1/2"	215
TF128HF-PBV	9,675	19 x 54 x 118	2"	2"	310
TF168HF-PBV	12,900	19 x 68 x 118	2"	2"	415
TF208HF-PBV	16,128	19 x 84 x 118	2"	2"	510
TF2010HF-PBV	20,160	19 x 84 x 142	2"	2"	605
TF2410HF-PBV	24,192	45 x 62 x 146	2"	2"	720
TF3010HF-PBV	30,240	53 x 62 x 147	2"	2"	880
TF3610HF-PBV	36,288	66 x 62 x 148	3"	3"	1,065
TF4010HF-PBV	40,320	58 x 73 x 148	4"	4"	1,200
TF4810AHF-PBV	55,872	84 x 72 x 148	4"	4"	1,400
TF5610AHF-PBV	65,184	84 x 80 x 148	4"	4"	1,810
TF6410AHF-PBV	74,496	80 x 78 x 148	4"	4"	2,210
TF7210AHF-PBV	83,800	98 x 78 x 173	4"	4"	2,450
Model # Horizontal	8 Hour Flow Rate* SCFH	Dimensions W x D x H (inches)	Inlet	Outlet	Weight Lbs.
TF048HF-PBH	3,129	110 x 20 x 28	1"	1"	100
TF088HF-PBH	6,258	111 x 42 x 28	1-1/2"	1-1/2"	196
TF128HF-PBH	9,386	111 x 53 x 28	1-1/2"	1-1/2"	287
TF168HF-PBH	12,518	111 x 70 x 28	1-1/2"	1-1/2"	385
TF208HF-PBH	15,648	112 x 88 x 32	1-1/2"	2"	506
TF2010HF-PBH	19,560	136 x 88 x 32	1-1/2"	2"	601
TF2012AHF-PBH	27,098	160 x 98 x 34	2"	2"	783
TF2015AHF-PBH	33,870	196 x 98 x 34	2"	2"	940
TF2812AHF-PBH	37,934	160 x 70 x 52	2"	2"	1,075
TF2815AHF-PBH	47,418	196 x 70 x 52	2"	3"	1,344
TF3212AHF-PBH	43,354	162 x 80 x 52	2"	3"	1,180
TF3215AHF-PBH	54,192	196 x 80 x 52	2"	3"	1,435
TF4015AHF-PBH	67,740	196 x 95 x 52	2"	3"	1,785

* Flow based on saturated liquid nitrogen at the inlet and nitrogen gas at the outlet with approximately 60°F to 90°F of superheat. Multiply rating by .92 for oxygen and 1.14 for argon service.