

THERMACAST™ ELECTRIC

VAPORIZER



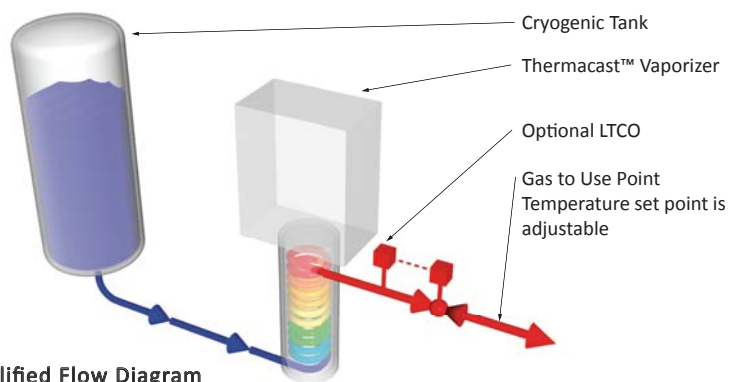
Product Datasheet **1.0**

Thermax Thermacast™ Electric Vaporizers

provide reliable and economical vaporization of a wide variety of cryogenic liquids and liquefied gases. The Thermacast cannot be beat for its compact size and ease of installation. Connect the inlet and outlet piping, bring in a single power line and the unit is ready to operate. The vaporizers not only evaporate liquid, but also provide superheat in a single unit. The outlet temperature is automatically maintained by turning the heaters on and off via an adjustable temperature controller.

CONSTRUCTION:

Stainless steel heat transfer coils are cast into a solid aluminum block. Electric cartridge heaters, moisture sealed and replaceable, are inserted into precision-drilled heat sinks in the aluminum block. Heat transfer is maximized by unique Vortex-Flow™ vaporizer tubes. Controls and switchgear are enclosed in a NEMA rated weatherproof electrical enclosure.



Simplified Flow Diagram

Options

- Safety Low Temperature Shutdown Controller and Valve (LTCO)
- Additional vaporization circuit for pressure building. (See Product Datasheet 1.6)
- Solid State SCR power control for step-less, proportional power, close temperature tracking and prolonged heater life
- Gas outlet temperature from -250°F to 500°F
- Design pressure to 15,000 PSIG
- High Purity, electropolished units
- Monel, Hastelloy or 316 Stainless Steel wetted part construction materials



Standard features

- Replaceable stainless steel cartridge heaters
- Adjustable gas temperatures
- Fully automatic operation
- Compact design
- High block temperature limit switch for safety
- Stainless Steel casting jacket and legs for corrosion resistance, low maintenance and appearance
- Thermacast™ unit comes fully factory wired, tested and ready to install
- Quick delivery of standard units
- Built in conformance with ASME B31.3 Process Piping Code
- 300 series Stainless Steel/Brass wetted parts



Innovation. Experience. Performance.®

THERMACAST™ ELECTRIC

VAPORIZER

Model	kW	Volts					SCFH		Lbs/Hour	Dimensions			
		240	380	415	480	600	N ₂ /O ₂	Ar	CO ₂	LxWxH (inches)	Inlet FNPT	Outlet FNPT	WEIGHT (lbs)
		Amps											
H3C	3	7.2	4.6	4.2	3.6	3	750	850	75	22x12x55	½"	½"	170
H3B	6	14.4	9.1	8.3	7.2	6	1,500	1,700	155	22x12x55	½"	½"	170
H3A	9	22	14	13	11	9	2,250	2,500	225	22x12x55	½"	½"	170
H3	12	29	18	17	14	12	3,000	3,400	310	22x12x55	½"	½"	170
H3L	15	36	23	21	18	14	3,750	4,275	375	22x12x55	½"	½"	170
H6A	20	48	30	28	24	19	5,000	5,700	500	24x14x55	½"	¾"	230
H6	25	60	38	35	30	24	6,250	7,100	625	24x14x55	½"	¾"	230
H6L	30	72	46	42	36	29	7,500	8,500	750	24x14x55	½"	¾"	230
H9A	40	96	61	56	48	38	10,000	11,400	1,000	24x16x57	¾"	1"	300
H9LL	50	120	76	70	60	48	12,500	14,000	1,250	24x16x57	¾"	1"	300
H12	60	144	91	83	72	58	15,000	17,000	1,550	24x16x57	¾"	1"	300
H15	75	180	114	104	90	72	18,750	21,000	1,900	24x18x58	1"	1"	450
H18	100	241	152	139	120	96	25,000	28,000	2,550	24x22x64	1"	1"	575
H21	120	289	182	167	144	115	30,000	33,600	3,050	24x22x64	1"	1"	700
2XH15	150	361	228	209	180	144	37,000	42,000	3,670	36x22x72	1"	1"	900
2XH18	200	481	304	278	241	192	50,000	56,000	5,100	36x22x72	1"	2"	1,200
2XH21	240	577	365	334	289	231	60,000	67,200	6,100	36x22x72	1"	2"	1,400

Call Thermax Inc. for ratings on Ethanol, Ammonia, Chlorine, Ethylene. Methanol, SO₂ N₂O, and Related Liquids

Other Electric Unit Styles

Thermax designs and manufactures custom Thermacast™ Vaporizers and Super Heaters, Electric Water Bath Units and Combination Ambient Electric Vaporizers, Custom Units to 15,000 PSIG and 500°F outlet. Contact Thermax for details.

