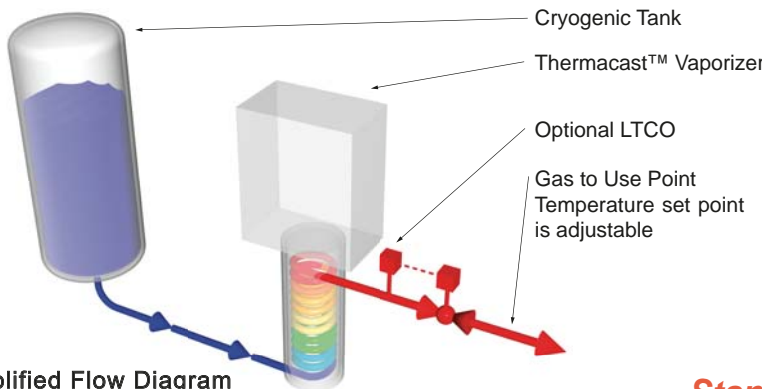


## THERMACAST™ ELECTRIC VAPORIZER

**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
- ☒ 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

### 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

Thermacast™ Electric Vaporizer

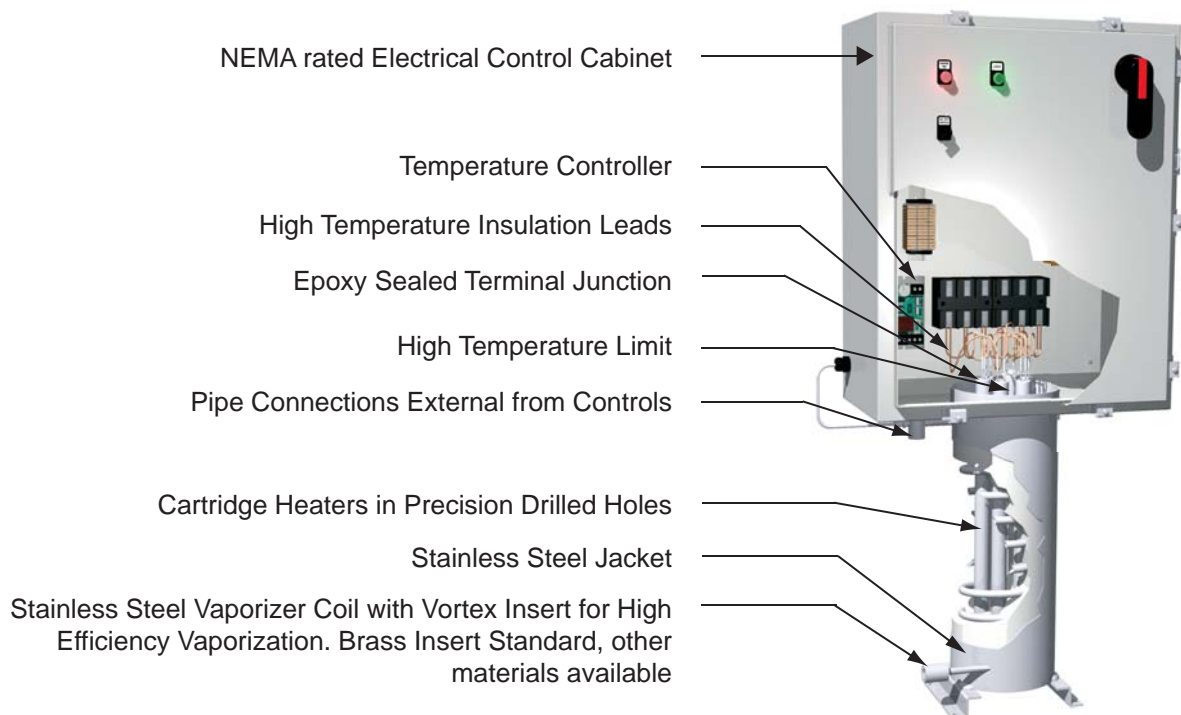
# Model Ratings

Model	kW	Volts					SCFH		Lbs/Hour	Dimensions			
		240	380	415	480	600	N <sub>2</sub> /O <sub>2</sub>	Ar	CO <sub>2</sub>	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, SO<sub>2</sub> N<sub>2</sub>O, 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.



All tables shown on this Datasheet are intended as a guide that reflects our experience on these models. Please call Thermax Inc. for guidance on specific applications. 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. Thermacast™ is a Thermax Inc. trademark.

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