

# SIDE ARM ELECTRIC

VAPORIZERS



Product Datasheet **2.2**



**Thermax Side Arm Electric Vaporizers** provide reliable and economic vaporization of non-cryogenic liquefied gases. By returning vapor to the tank, the unit maintains pressure during cold weather and peak use periods. Thermax offers both direct and indirect units.

#### PRINCIPAL OF OPERATION:

Unit is installed below the minimum liquid level in the tank. The adjustable pressure switch activates the heater when the tank pressure falls below the set point. Liquid is vaporized to gas and returned to the head space of the tank to build pressure and/or provide vapor for the downstream user.

#### Standard features

- Local disconnect via circuit breaker with control panel door interlock
- Adjustable pressure control switch
- Fully fused 120VAC control power transformer
- ASME code Stamped SEC. VIII, Div.1 on tubes larger than six inches in diameter
- Designed, fabricated & tested to ASME B31.3 and NFPA 70
- Dual high temperature limits for added safety
- High quality immersion heater with Incoloy® sheathed elements and low watt density
- Fully insulated and weatherproof shell
- Shell pressure relief valve
- High temperature limit thermostat
- Weatherproof NEMA 3R electrical enclosure for outdoor installations
- Units come fully wired, tested and ready to install
- Immersion heaters are field replaceable

#### Options

- Explosion proof model available in indirect heat version
- Main power disconnect switch in separate enclosure
- NEMA 4 electrical enclosure
- Stainless steel shell
- Actuated ball valve to cut off process fluid flow to unit when tank reaches operating pressure to avoid pressure build overshoot



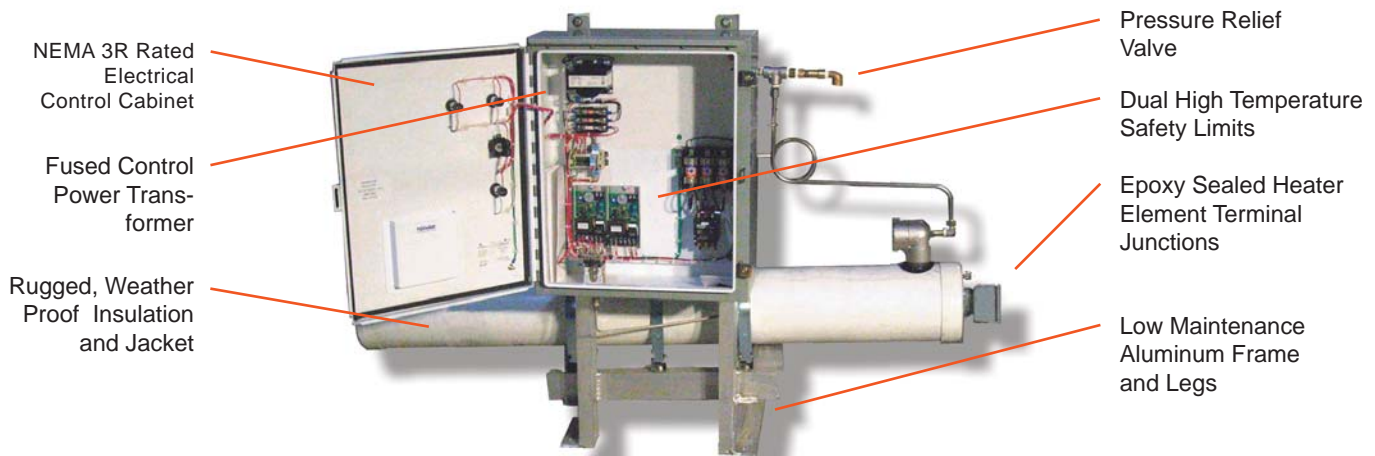
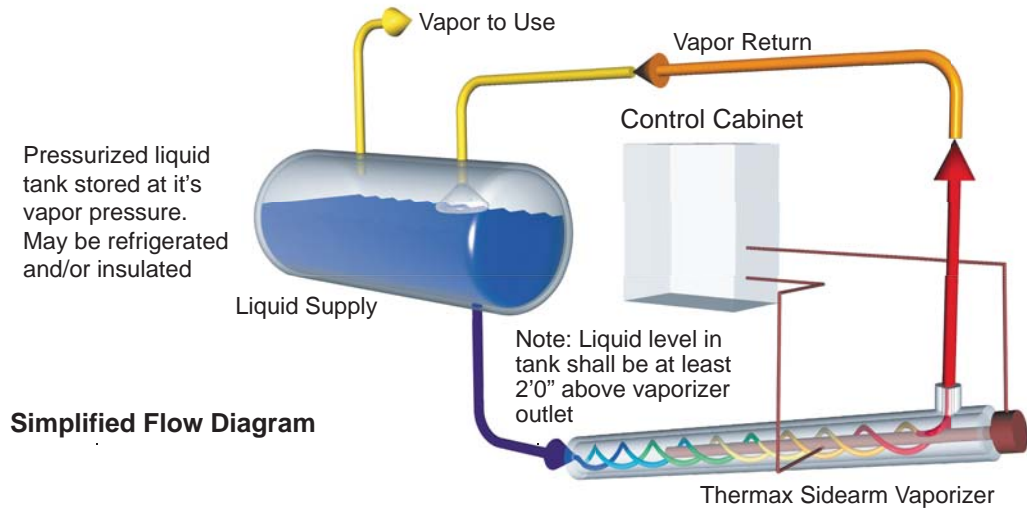
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Model Ratings			Amp Draw			Ratings									
Direct	Indirect	KW	240V	480V	600V	CO <sub>2</sub>		SO <sub>2</sub>		LPG		N <sub>2</sub> O		NH <sub>3</sub>	
						lb/hr	kg/hr	lb/hr	kg/hr	lb/hr	kg/hr	lb/hr	kg/hr	lb/hr	kg/hr
L224-3	L187-3	3	7.2	3.6	3	75	34	60	27	48	22	85	39	15	7
L224-6	L187-6	6	14.5	7.3	6	155	70	120	54	96	44	170	77	30	14
L224-12	L187-12	12	29	15	12	310	141	240	109	192	87	340	154	60	27
L224-15	L187-15	15	36	18	15	375	170	300	136	240	109	400	181	75	34
L224-18	L187-18	18	44	22	18	450	204	360	163	288	131	480	218	90	41
L224-25	L187-25	25	60	30	25	625	283	500	227	385	175	680	308	130	59
L224-30	L187-30	30	72	36	30	750	340	600	272	480	218	820	372	155	70
L224-40	L187-40	40	97	49	40	1,000	454	800	363	640	290	1,100	499	205	93
L224-50	L187-50	50	120	60	50	1,250	567	1,000	454	800	363	1,370	621	260	118
L224-60	L187-60	60	145	73	60	1,550	703	1,200	544	960	435	1,700	771	315	143
L224-75	L187-75	75	180	90	75	1,900	862	1,500	680	1,200	544	2,090	948	390	177
L224-100	L187-100	100	240	120	100	2,550	1,156	2,000	907	1,600	726	2,800	1,270	520	236
L224-150	L187-150	150	360	180	150	3,870	1,755	3,000	1,361	2,400	1,088	4,250	1,927	780	354

CO<sub>2</sub> and SO<sub>2</sub> are normally direct style LPG, N<sub>2</sub>O and NH<sub>3</sub> are normally indirect style Side Arm Electric Vaporizers. Explosion proof option applies to indirect style only.



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 ped by Thermax Inc. and shall not be used in any way injurious to the interests of Thermax Inc.