ZIMMER **Dry-Electric LPG Vaporizer**

ZIMMER[™] is the most hassle-free, easy-to-use vaporizer on the market. It offers a compact, affordable, energy-efficient design and requires virtually no maintenance. When quality, simplicity and reliability are your priorities, just choose **ZIMMER**.

KEY POINTS:



Hands Down the Most Reliable and Trouble-Free Vaporizer **Available**



98% Thermal Efficiency



Self-Modulating Heaters Use the Minimum Energy Required to Meet the Demand of the Load



Easy Access to All Maintainable Components



Dry-Electric Design — No Water, **No Glycol to Maintain**



Aluminum Construction — **Corrosion Free**



Easy to Install — Multiple **Mounting Options**



Various Voltage Configurations Can be Applied to Factory **Installed Explosion Proof** Seal-Off



Start-Up In Less Than 60 Seconds — LPG Vapor When You Need It



The technology behind the dry-electric **ZIMMER** is advanced, yet simple to operate. Algas-SDI innovated every element of the **ZIMMER** design ensuring years of safe, reliable, affordable, and easy-to-use LPG vaporization.

IDEALLY SUITED FOR:



& Resorts



Generators













START-UP: Less than 1 minute depending on ambient temperature

ZIMMER is protected under various granted and pending patents. For more information, visit **www.algas-sdi.com/patents** for more details.





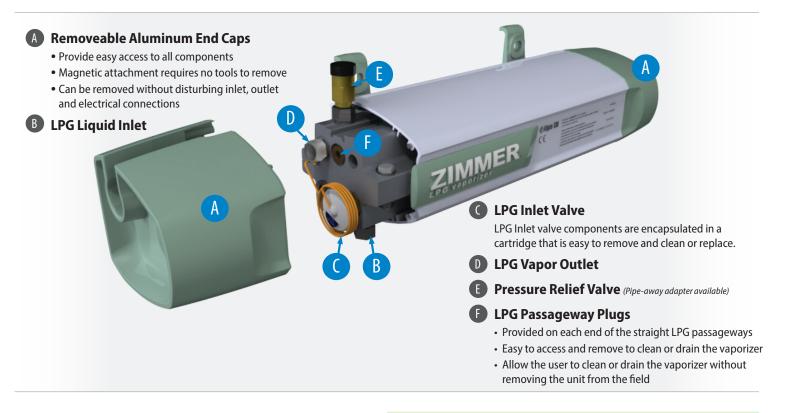




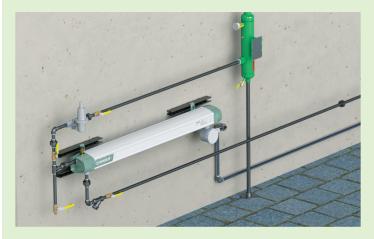




If low cost of ownership of a vaporizer is important, Algas-SDI, the pioneer in dry-electric vaporizers, has the solution for you. Dry-electric means more reliable operation and less maintenance when compared to other vaporizer types. **ZIMMER** is designed to be easy to install, operate and maintain with only a few components that require maintenance and are easy to access without removing the unit from the field. End users will benefit from the simplicity and efficiency of the **ZIMMER**.



ZIMMER is designed and rated for installations in hazardous area locations. The explosion proof design allows the unit to be installed with little to no distance set backs from the LPG storage tank, cylinders, buildings or other components in the installation. **ZIMMER** can be installed either in the horizontal or vertical position. This coupled with multiple installation options — wall mount, tank mount or stand mount — make it a perfect fit for a space constrained installation and the most versatile option for all applications.



Wall mount option shown

Zimmer™ is a Trademark of Algas-SDI, LLC.







ZIMMER Technical Specifications

Vaporizer Type/Model	Indirect Dry-Electric Feed Out							
	Model	Z25	Z40	Z50	Z100	Z150		
Hazardous Area Classification		Class I, Division 1, Group D, T3; Ex db IIA T3 Gb (Zone 1)						
Approvals		UL/U	Lc, CE (ATEX & IECEx), PED	UL/ULc, CE (ATEX & IECEx), PED (Category I)				
	Kg/hr	25	40	50	100	150		
Vaporization Capacity*	US Gal/hr	12.5	20	25	50	75		
	MMBTU/hr	1.1	1.8	2.2	4.5	6.8		
Liquid Inlet Connection		1/2" FNPT			3/4" FNPT			
Vapor Outlet Connection		1/2" FNPT			3/4" FNPT			
Design Pressure (MAWP)		250 psig - 17.2 barg						
Relief Valve Set Point		250 psig - 17.2 barg						
Hydrostatic Test Pressure		375 psig - 25.9 barg						
Unit Dimensions		26.9" L x 9.5" H x 8.3" W			67.4" L x 9.5" H x 8.3" W			
		684 mm L x 241 mm H x 210 mm W			1712 mm L x 241 mm H x 210 mm W			
Shipping Dimensions		34" L x 11" H x 14" W 864 mm L x 280 mm H x 356 mm W			75" L x 11" H x 14" W			
					1905 mm L x 280 mm H x 356 mm W			
Shipping Weight		65 lb / 30 Kg	70 lb / 32 Kg	70 lb / 32 Kg	165 lb / 75 Kg	175 lb / 80 Kg		
Optional Accessories		Tank Mount Kit; Tank Mount Piping Kit; Wall Mount Kit; Strainer and Piping Kit for Wall Mount; Regulator/Gauge for Wall Mount; Drain Valve Kit			Floor Mount Kit; Wall Mount Kit; Strainer and Piping Kit; Regulator/Gauge Kit; Drain Valve Kit			

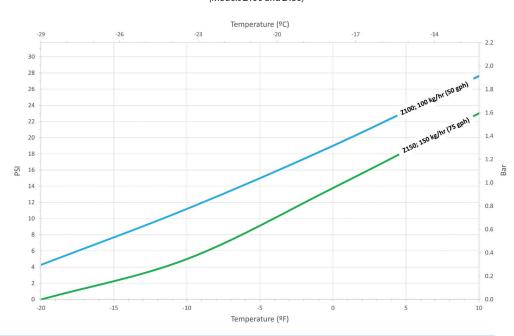
*Capacity rating may vary with ambient conditions

Under low ambient temperature conditions the pressure drop through the heat exchangers of models Z100 and Z150 limits the pressure at the outlet of the vaporizer necessary to achieve full capacity through the high pressure regulator. Use the Vaporizer Outlet Pressure chart (100% propane shown) to determine the Z100 and Z150 outlet pressure at various liquid propane inlet temperatures. If the outlet pressure is not sufficient to achieve the required flow rate, a liquid pump needs to be installed in the system. For additional information on the Z100 and Z150 outlet pressure when vaporizing LPG mixtures, refer to detailed charts located on our website or contact the factory for application assistance.

Note: Vaporizer outlet pressure chart is for use with above ground tanks only, does not apply to buried or mounded tanks, and assumes LPG composition is 100% propane, no liquid pump in the system, no vapor withdrawal from the tank, and liquid propane in the tank is at ambient temperature.

Vaporizer Outlet Pressure at Full Capacity

(Models Z100 and Z150)



Algas-SDI

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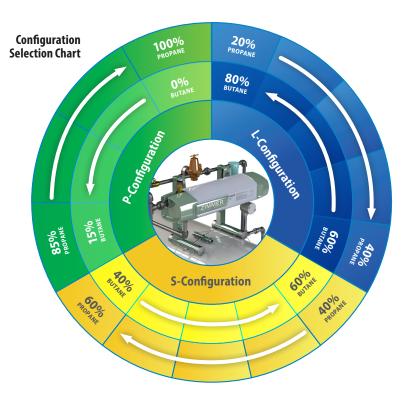






Configuration Options

Each model of ZIMMER is available in three configurations; one for Propane and two for LPG mixtures. Each configuration is specific to the composition of the LPG because the inlet valve operates relative to the thermodynamic properties of the LPG composition. The specific configuration is identified by one of three letters following the model number: P, L and S. Use the Configuration Selection Chart to determine the proper vaporizer configuration.



Electrical Specifications

ZIMMER's design allows multiple power supply options, 50Hz or 60Hz, to be supplied to the vaporizer without the need to change wiring inside the vaporizer. Power supply options for the Z25-Z50 range from 100-277VAC single phase. Power supply options for the Z100 and Z150 range from 100-277VAC single phase or up to 480VAC 3 phase, 4-wire Wye configuration.

SINGLE PHASE WIRING

Voltage L1 to Neutral [VAC]		100*	120*	208	220	240	277
Z25	Power [kW]***	2.2	2.2	3.0	3.0	3.0	3.0
	Current at rated Capacity [A]***	22.3	18.6	14.3	13.5	12.4	10.7
	Circuit Breaker D/J Type [A] (125%)	30	25	20	20	15	15
Voltage L1 to Neutral [VAC]		100*	120*	208	220	240	277
Z40	Power [kW]***	3.6	3.6	4.8	4.8	4.8	4.8
	Current at rated Capacity [A]***	35.7	29.8	22.9	21.6	19.8	17.2
	Circuit Breaker D/J Type [A] (125%)	45	40	30	30	25	25
Voltage L1 to Neutral [VAC]		100*	120*	208	220	240	277
Z50	Power [kW]***	4.5	4.5	6.0	6.0	6.0	6.0
	Current at rated Capacity [A]***	44.6	37.2	28.6	27.0	24.8	21.5
	Circuit Breaker D/J Type [A] (125%)	60	50	40	35	35	30
Voltage L1, L2 or L3 to Neutral [VAC]		100*	120*	208	220	240	277
Z100	Power [kW]***	8.9	8.9	11.9	11.9	11.9	11.9
	Current at rated Capacity [A]***	29.8	24.8	22.9	21.6	19.8	17.2
	Circuit Breaker D/J Type [A] (125%)	40	35	30	30	25	25
Voltage L1, L2 or L3 to Neutral [VAC]		100*	120*	208	220	240	277
Z150	Power [kW]***	13.4	13.4	17.9	17.9	17.9	17.9
	Current at rated Capacity [A]***	44.6	37.2	28.6	27.0	24.8	21.5
	Circuit Breaker D/J Type [A] (125%)	60	50	40	35	35	30

A properly sized D or J type circuit breaker (UL489 or CE equivalent) is required for use with the ZIMMER to allow a high level of inrush current on start-up. For 3 phase 4 wire Wye wiring, a 4 pole circuit breaker is required for the electrical installation.

THREE PHASE WIRING (4 Wire Wye)

Line to Line Voltage [VAC]		173*	208*	360	380	415	480
Voltage L1, L2 or L3 to Neutral [VAC]		100*	120*	208	220	240	277
	Power [kW]***	8.9	8.9	11.9	11.9	11.9	11.9
Z100	Current at rated Capacity [A]***	29.8	24.8	22.9	21.6	19.8	17.2
	Circuit Breaker D/J Type [A] (125%)	40	35	30	30	25	25
Line to Line Voltage [VAC]		173*	208*	360	380	415	480
Voltage L1, L2 or L3 to Neutral [VAC]		100*	120*	208	220	240	277
Z150	Power [kW]***	13.4	13.4	17.9	17.9	17.9	17.9
	Current at rated Capacity [A]***	44.6	37.2	28.6	27.0	24.8	21.5
	Circuit Breaker D/J Type [A] (125%)	60	50	40	35	35	30

^{*25%} capacity derate with 100-120V line to neutral voltage



^{**}Requires three (3) single phase breakers, one for each leg (L1, L2, L3)

^{***}Operating conditions affect power and current