



Zimmer LPG Vaporizer



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Zimmer[™] is the most innovative, easy-to-use, and reliable small capacity LPG vaporizer in the world. Our patented technology provides the marketplace quality and affordability. When quality, simplicity and value are your priorities, **just choose Zimmer.**[™]

Key Points



Dry electric design Self-regulating heaters match heat output to LPG usage

No switches, thermostats, floats or relays to fail

Expect 3 to 5 years of NO maintenance!



Voltage options: 100-240VAC or DC



Approved by UL/ Demko; CE and ATEX marked

Corrosion-resistant heat exchanger



Zimmer is protected under various granted and pending USA, European, Japanese and Korean patents including but not limited to 6816669, 6707987, 02734559.4, 10-0882382, 6957013, 03779340.3, 4667872, 2010-225074, 10-2005-7006945

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Step 1

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Liquid LPG enters the vaporizer via an inlet control valve.

Step 2

The control valve's inverted, metal to metal seat provides durability while preventing debris from collecting on the valve seat.

Step 3

Liquid LPG enters the steel heat exchanger tubes cast into the aluminum body. The steel tubes provide

a secure pressure boundary and enhance heat transfer.

Step 4

Self-regulating heaters replenish energy extracted during the vaporization process. The unique design prevents overheating and uses NO temperature sensors, relays, or similar control devices.

Step 5

Accepts AC or DC power.

Step 6

The temperature of the LPG vapor exiting the vaporizer is monitored by a temperature sensitive bulb. This bulb provides feedback to the inlet control valve.

Step 7

The inlet control valve modulates the flow of liquid LPG into the vaporizer relative to the vapor exit temperature to ensure complete vaporization occurs.

IDEALLY SUITED FOR:







Restaurants

Small Factories





Construction Zones

Buses HVOF Coatings

Start Up: 30 – 50 minutes depending on temperature

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Operational Overview

Zimmer is comprised of an electrically heated aluminum heat exchanger, packaged within an aesthetically pleasing, UV protective thermoplastic resin enclosure. The entire vaporizer assembly weighs approximately 65 lbs (30 kg) and is fully self-contained. To say **Zimmer** is easy to use is an understatement.

End users benefit from **Zimmer**'s minimal space requirements and flexible mounting configurations. Typical applications include commercial kitchens, small light industrial loads, mobile requirements and high-end residential users. With **Zimmer**, your LPG tank will provide consistent trouble free vapor supply, day-in and day-out.

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Zimmer[™] Specifications

Vaporizer Type/Model:	Electric Model Z40			
	Voltage	Phase	¹ Watts	Amps
Electrical Information:	² 120	1	3,270	27.3
100-240v	208	1	4,510	21.7
50-60 hz	220	1	4,680	21.3
	240	1	4,680	19.5
Hazardous Area Classification:	EEx d IIA T4, II 2 G Class I, Division 1, Group D T4			
Approvals:	UL, CE, DEMKO, ³ PED, ATEX			
⁴ Vaporization Capacity:	1.82 MMBTU/h 0.448 MMkcal/h (20 US Gal/h) (40 kg/h)			
Heat Exchanger:	Relief Valv	ve Set Point:	250 PSIG	17.2 Barg
	⁵Desię	n Pressure:	250 PSIG	17.2 Barg
	6Pro	of Pressure:	1250 PSIG	86.2 Barg
Unit Dimensions:	31.1" L x 10.3" H x 6.4" W 791mm L x 260 mm H x 163.mm W			
Shipping Weight:	70 lbs. 32 kg			
Shipping Dimensions:	35"L x 15"W x 12"H 889mm L x 381mm W x 305mm H			
Optional Accessories:	Mounting Kit, Tank Mount Kit, Valve and Strainer Kit, Outlet Regulator			



- Wattages shown reflect peak consumption. Vaporizer power consumption modulates to LPG input rate. Electrical Consumption: 0.1 kWh./kg vaporized.
- ² Continuous vaporization capacity at 120V is 25% less than shown.
- ³ PED is per 'Standard Engineering Practice' SEP.
- ⁴ LPG composition effects rated capacity. Note that alternative models and capacities are **only available** in certain countries **outside** the USA and Canada. Contact your Region Manager for details.
- ⁵ Max Allowable Working Pressure or MAWP
- 6 Pressure the product is capable of withstanding without suffering permanent damage such deformation, bending or warping of the material.

Note: LPG containing asphaltenes, paraffins or similar substances will impact performance.

Algas-SDI developed its first vaporizer in 1932. Over eighty years later, we still lead the market in quality, innovation and **commitment to purpose**. Our products allow businesses located off the gas grid or under curtailment, to operate. We eliminate downtime ensuring **workers can work and goods and services can flow to market**.



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