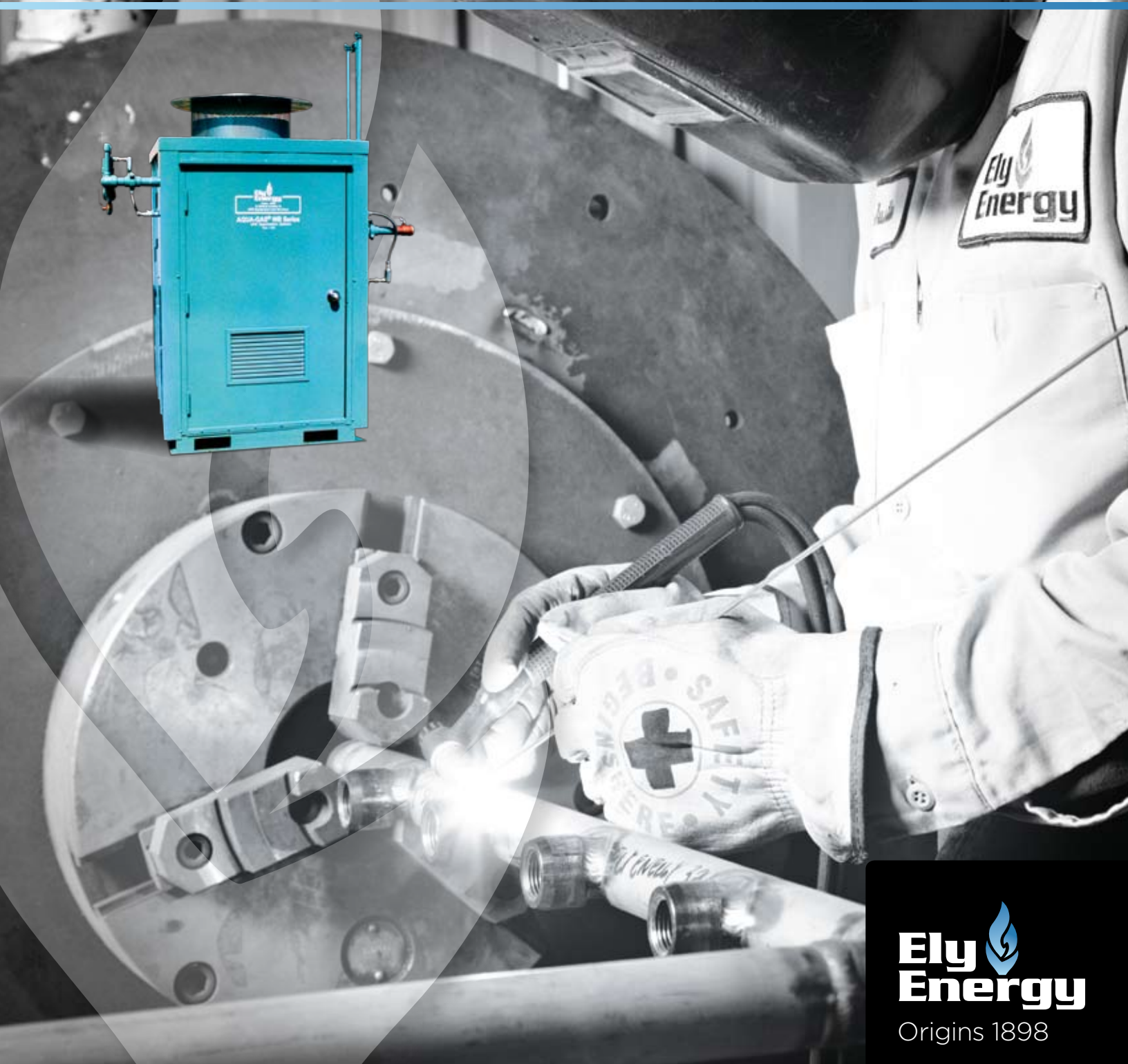




Global Leader in LPG Energy Systems

AQUA-GAS[®] WB-V Series



Ely Energy
Origins 1898

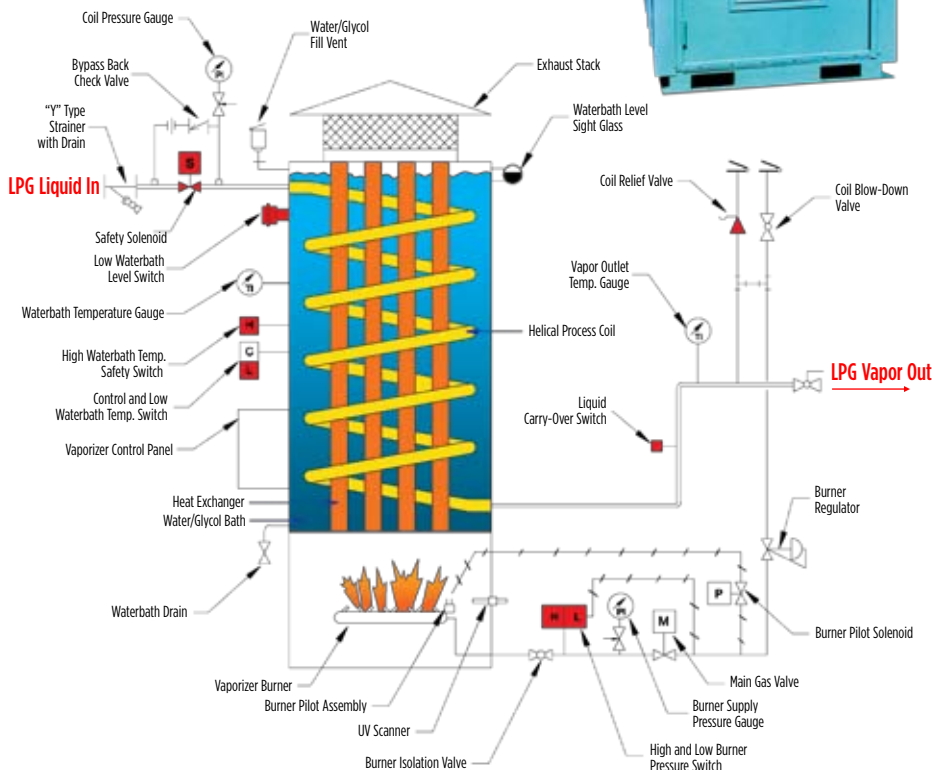
OPERATION

The AQUA-GAS® WB-V Series Vertical Gas Fired LPG Vaporizer is designed for small to large capacity 'base load' applications and industrial Standby Systems requiring an LPG vapor source. The design is based on an atmospheric LPG burner supplying energy to a water/glycol mixture through a series of vertical fire tubes.

During operation, the vaporizer burner heats the water/glycol bath in the vaporizer. Liquid LPG then enters the vaporizer's helical process coil and is heated by the waterbath inducing vaporization. An adjustable waterbath temperature controller regulates the ON/OFF cycle of the burner in response to the waterbath temperature. The LPG vapor then passes out of the vaporizer's heat exchanger into the vaporizer's external vapor header. From there the LPG vapor travels either to an SNG (Synthetic Natural Gas) system or directly to the

consuming equipment.

The **AQUA-GAS® WB-V Series** vaporizer system is a safe, simple and robust design proven in over 30 years of applications around the world. The vaporizer is Factory Mutual (FM) Approved and is pre-piped, pre-wired and pre-tested prior to shipment. It is complete with all operating and safety controls. The **AQUA-GAS® WB-V Series** remains a wildly popular choice for manufacturing companies, institutional laundries, soil reclamation processes, hospitals and a host of other applications.



FEATURES

Factory Mutual (FM) Approved

UL stamped external relief valve:
1.72 Mpa (250 Psig)

All wiring, controls, electrical components and their installation comply with (USA) NFPA Pamphlet 58 and NFPA Pamphlet 70

Steel tube LPG helical coil designed and manufactured per ASME Pressure Vessel Code, Section VIII, Division 1

LPG Heat exchanger coil rating:
1.72 Mpa at 343°C (250 Psig at 650°F)

100% turndown capability

LPG fired atmospheric ring burner

Water circulation pumps to reduce thermal stratification (Models WB800V and larger)

Honeywell UV Scanner and Flame Safeguard

Central Control Panel with First-out Annunciator

Pressure balanced LPG supply/delivery operation

Float activated high liquid LPG level shutdown switch

Safety solenoid valve (Inlet location on "free-standing" vaporizers; vapor outlet location on **AQUA-BLEND®** and **AQUA-AIRE™** configurations)

All exposed metal surfaces are mechanically cleaned, primed, and painted

Complete with all operating and safety controls

Factory calibrated, tested and packaged

OPTIONS

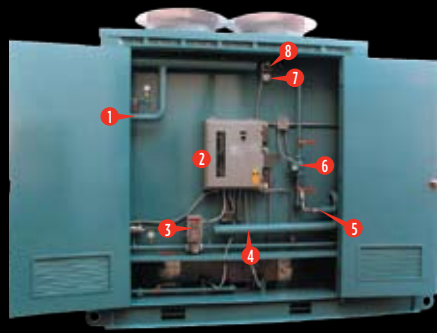
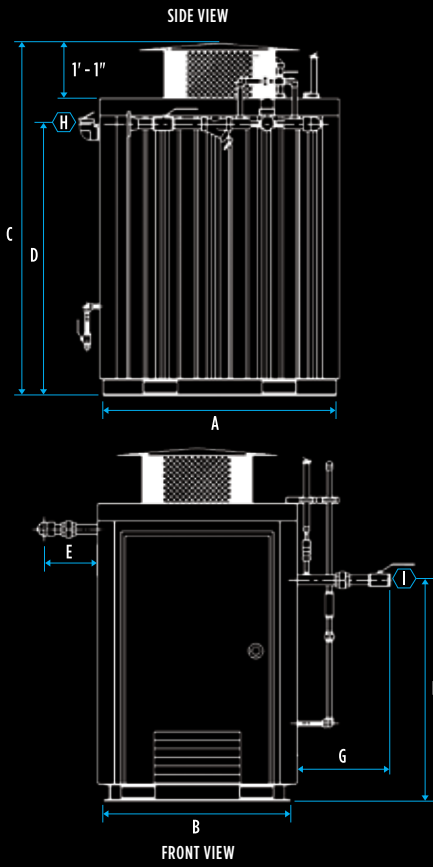
Maintenance/Control House (7' x 4' with lights, heat, gas leak detection)

Disconnects and Transformers (Provided with Maintenance/Control House)

Rotary Beacon (Provided with Maintenance/Control House)

Dry Contacts

Flanges



◀ Standard "non-Maintenance/Control House" Vaporizer design

- 1 Liquid LPG Inlet
- 2 Control Panel
- 3 Main Gas Valve
- 4 Vapor LPG Header
- 5 High Liquid LPG Safety
- 6 Waterbath Circulation Pump (MODELS WB800V AND LARGER)
- 7 Waterbath Temperature
- 8 Low Waterbath Safety

DIMENSIONAL DATA

SIZES:
ft. - in.
mm

MODEL WB-V	A	B	C	D	E	F	G	H	I
100									
200	4' - 7"	3' - 8"	6' - 11"	5' - 0"	1' - 1"	4' - 0"	1' - 6"	2" FNPT	2" FNPT
	1397	1118	2108	1524	330	1219	457		
300									
400									
500	4' - 7"	3' - 8"	8' - 11"	5' - 6"	1' - 1"	4' - 5"	1' - 6"	2" FNPT	2" FNPT
	1397	1118	2718	1676	330	1346	457		
600									
800	4' - 7"	3' - 8"	9' - 7"	6' - 2"	1' - 1"	5' - 0"	1' - 6"	2" FNPT	2" FNPT
	1397	1118	2921	1880	330	1524	457		
1000									
1200	4' - 7"	7' - 5"	8' - 11"	5' - 6"	1' - 1"	3' - 4"	1' - 6"	2" FNPT	2" FNPT
	1397	2261	2718	1676	330	1016	457		
1600	4' - 7"	7' - 5"	9' - 7"	6' - 2"	1' - 1"	4' - 2"	1' - 6"	2" FNPT	2" FNPT
	1397	2261	2921	1880	330	1270	457		

SPECIFICATIONS GUIDE

MODEL WB-V

		100	200	300	400	500	600	800	1000	1200	1600	
VAPORIZATION CAPACITY	U.S. Gallon/h Kg/h	100 191	200 382	300 573	400 764	500 955	600 1146	800 1528	1000 1910	1200 2292	1600 3056	
WATERBATH CAPACITY	U.S. Gallons Liters	93 352	93 352	93 352	192 727	192 727	192 727	227 859	450 1703	450 1703	477 1806	
HEAT EXCHANGER DESIGN PRESSURE	Psig Mpa	←					250 1.72	→				
HEAT EXCHANGER TEST PRESSURE	Psig Mpa	←					375 2.58	→				
SHELL DESIGN PRESSURE	Psig Mpa	← Atmospheric →										
WATERBATH OPERATING TEMP. (ADJUSTABLE)	F° C°	←					160 71	→				
ELECTRICAL	v ph hz	←					110 1 60 220 1 50	→				
BURNER FUEL INPUT	BTU/h (,000) KCAL/h (,000)	140 35	280 71	395 100	560 140	700 177	840 212	1120 283	1400 354	1680 424	2240 566	
LPG RELIEF VALVE SET POINT	Psig Mpa	←					250 1.72	→				
SHIPPING WEIGHT	Lbs Kg	1980 900	1980 900	1980 900	3170 1441	3170 1441	3170 1441	4470 2032	5800 2636	5800 2636	8178 3717	
OPERATING WEIGHT	Lbs Kg	2755 1252	2755 1252	2755 1252	4769 2168	4769 2168	4769 2168	6361 2891	9549 4340	9549 4340	12151 5523	

Vaporization ratings at 90 Psig (0.62 Mpa) and -30°F (-34°C) with 100% Propane

Contact EEI for capacities not shown above

Final sizing to be confirmed by EEI factory (USA) and may vary from "typical" sizing shown above

Product improvement is a continuing goal at Ely Energy, Inc. Designs and specifications are subject to change without notice.

Core Business Activities

Ely Energy Inc. (EEI) designs and manufactures equipment for air pollution abatement, supplementation or replacement of natural gas using Synthetic Natural Gas, essential oils extraction and refining and a variety of process markets. We serve these markets through four primary business groups: deNOx /Environmental, SNG/LPG, Essential Oils and Process Equipment.

CLIENTS

ARGENTINA
REPSOL YPF

AUSTRALIA
Kleenheat, Victoria

BRAZIL
Owens-Corning

CHILE
Metrogas SA

CHINA
Kohler Company, Shanghai

COLOMBIA
Alcanos

EGYPT
Tandem Textiles Ltd., Cairo

KUWAIT
Kuwait Insulating Materials

PAKISTAN
Sui Southern Gas Company

MEXICO
American Axle Inc.

OMAN
SAG Sohar

SAUDI ARABIA
Arabian United Float Glass Co.

SOUTH AFRICA
Corning, Port Elizabeth

TURKEY
Ford-Otosan, Izmir

URUGUAY
Conecta (Sempra Int'l)

VENEZUELA
Guardian Glass



AFC™ Series Proportional SNG Blender



AQUA-BLEND® AB Series with Maintenance/Control House



AQUA-BLEND® AB Series Venturi SNG System



AQUA-GAS® WB-H Series Vaporizer

AQUA-BLEND®, AQUA-GAS® and VAPOR-JET® are registered U.S. trademarks of Ely Energy, Inc.

Ask for your free **“Ely Energy Corporate Brochure”**



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