



# Algas SDI™

*...Innovative liquid vaporizing and gas mixing solutions*

ISO 9001  
Certified

## DFV

*Packaged Natural Gas Replacement System  
Models DFV2.5-5 through DFV14-8*



- *Mixes LPG with air to form a simulated natural gas mixture*
- *100% turndown means these units are perfect for variable or steady loads*
- *FM and UL approved vaporizer with many years of proven performance*
- *ASME code stamped pressure vessels for vaporizer and surge tank*
- *Air inlet silencer for quiet operation (80 dB at 10 feet)*
- *Economical solution to achieve lower gas bills*
- *Ensures your plant or facility will never be without gas*
- *Electrical consumption less than 1 amp*
- *Available in 110v or 220v/1/50-60Hz*
- *CRN (Canadian Registration Number) standard for all Canadian provinces*

These new compact systems offered in 2.5, 7 and 14 MMBtu/hr discharge capacities produce an LPG/Air mixture that replaces Natural Gas up to 5 or 8 psig. With a small footprint of just over 10 square feet and an economical price tag, the new DFV systems are the perfect solution for those looking to reduce their gas bill, need security of supply for their operations or are in an area that doesn't yet have natural gas available. Commercial, agricultural and light industrial users will find these new systems easy to install. Simply pipe liquid LPG to the inlet and connect the outlet to the natural gas line with a check valve in between. The 5 psig systems may require an underground tank in severe weather areas while the higher pressure 8 psig systems usually require a small liquid pump system to ensure the necessary liquid pressure.

During operation, liquid LPG from a storage tank passes through a direct gas fired vaporizer (FM and UL approved) and enters the venturi mixer as vapor. As pressurized vapor passes through the venturi, the kinetic energy of the gas draws in air from the atmosphere through a check valve. The mixture is then re-pressurized through the diffuser before it enters the surge tank.

All units are shipped completely assembled and have been factory tested. Safeties include high liquid level control, over capacity limiting valve, high mixed gas pressure and low vapor pressure. Three pressure gauges are provided for easy monitoring and setup - mixed gas pressure, inlet vapor pressure, and venturi motive pressure.

## Specifications

<i>Model</i>	<i>Capacity (MM Btu/Hr)</i>	<i>Discharge Pressure (psig)</i>	<i>Inlet Connection (FNPT)</i>	<i>Outlet Connection (FNPT)</i>	<i>OAD (L x W x H)</i>	<i>Shipping weight approx. (lbs)</i>
<i>DFV 2.5-5</i>	2.5	5	3/4"	2"	80" x 26" x 80"	700
<i>DFV 2.5-8</i>	2.5	8	3/4"	2"	80" x 26" x 80"	700
<i>DFV 7-5</i>	7	5	3/4"	2"	80" x 26" x 80"	800
<i>DFV 7-8</i>	7	8	3/4"	2"	80" x 26" x 80"	800
<i>DFV 14-5</i>	14	5	3/4"	2"	72" x 60" x 80"	1100
<i>DFV 14-8</i>	14	8	3/4"	2"	72" x 60" x 80"	1100



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Form: DFV0401