

DF Series™

Direct Fired Vaporizer



DMC 多美時燃氣設備有限公司
DMC GAS EQUIPMENT LIMITED

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Direct Fired Vaporizer

Key Points

- ➔ No electricity required
- ➔ Auto re-ignitor standard
- ➔ Double liquid carry-over protection
- ➔ Thermostat easily operated with gloves
- ➔ Easy access inlet valve
- ➔ Low profiles (40/40 thru 120/60) for ease of portability
- ➔ Proprietary capacity control valve prevents lock up
- ➔ Burner gas isolation valve provided
- ➔ Thermowell allows easy replacement of gas valve
- ➔ “Snap-in” 40/40 pilot assembly
- ➔ UL Approved, CE Marked, PED Stamped

Algas-SDI direct fired vaporizers all carry the ASME U stamp, UL Approval (US and Canada) and the CRN mark for all Canadian Provinces. The 40/40 – 120.60 also carry the PED and CE/PED (DNV) marks.

Our **DF Series™** vaporizer, first patented in 1932, remains the most commonly used vaporizer in the world! It's simple, economical and easy to install. When an application lacks electricity or requires portability, **this is the ideal solution.**

Operational Overview

By design, **DF Series direct fired** vaporizers apply heat directly to a pressure vessel containing liquid LPG. The heating process induces vaporization, while consuming a small amount of the vapor generated. DF Series vaporizers ensure a continuous vapor supply to your application.

Algas-SDI vaporizers are built tough. A rugged heavy gauge metal enclosure with powder coat applied over zinc plating protects against harsh environments. The stainless steel exhaust flue and stainless steel tubing eliminate corrosion and extend service life. The stainless steel tubing also minimizes potential clogging of the vaporizer's temperature controller and burner orifices.

Access to the vaporizer internals is provided via a ¹latch-less reliable door panel. The design allows easy removal of the burner if required. Our domed exhaust top combined with our unique flue collar design, prevents water rain infiltration to the burner. **Algas-SDI** provides an automatic 9VDC re-ignitor as standard. When service requires replacement of the re-ignitor, spade connectors make the field change simple. Removal of the 9VDC battery allows the end user to disable the re-ignitor.

¹ Latch-less doors are provided in Models 40/40 thru 120/60



IDEALLY SUITED FOR:



Agriculture/
Orchards



Animal
Confinement

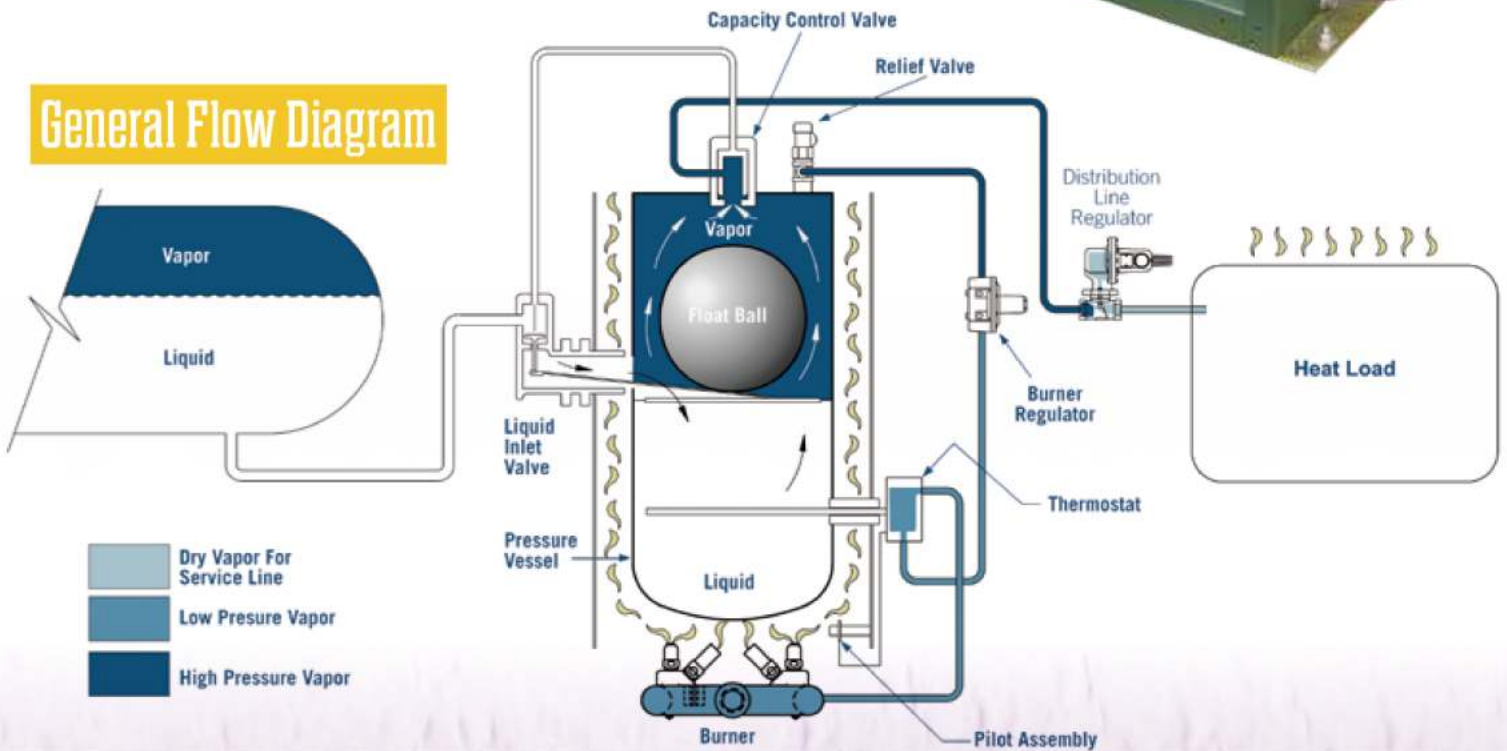


Crop
Drying



Construction
Heating

General Flow Diagram



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DF Series™ Specifications

| | | | | | | | | |
|---------------------------------|---------------------------------------|-------------------|-------------------|-------------------|-------------------|--------------------|--------------------|--------------------|
| Vaporization Type: | Direct Fired / Flow Through | | | | | | | |
| Electrical Data: | None Required | | | | | | | |
| Model Number: | 40/40 | 80/40 | 120/60 | 160H | 320H | 480H | 640H | 800H |
| ¹ Design Pressure | 290 PSIG / 20.0 Barg | | | | | | | |
| Relief Valve Set Point | 250 PSIG / 17.2 Barg | | | | | | | |
| Hydrostatic Pressure | 435 PSIG / 29.9 Barg | | | | | | | |
| Vaporizer Approvals: | | | | | | | | |
| ASME, UL (US and Canada) | ● | ● | ● | ● | ● | ● | ● | ● |
| CE, PED (DNV) | ● | ● | ● | | | | | |
| Liquid Inlet (FNPT) | ¾" | ¾" | ¾" | ¾" | 2" | 2" | 2" | 2" |
| Liquid Outlet (FNPT) | 1" | 1" | 1" | 1" | 2" | 2" | 2" | 2" |
| Vaporization Capacity: | | | | | | | | |
| Kg/h | 80 | 160 | 240 | 320 | 640 | 960 | 1280 | 1535 |
| [Nominal] ² US Gal/h | 40 | 80 | 120 | 160 | 320 | 480 | 640 | 800 |
| MMBTU/h | 3.6 | 7.2 | 10.9 | 14.6 | 29.1 | 43.7 | 58.2 | 72.8 |
| Burner Input: | | | | | | | | |
| (,000) Kcal/h | 13.0 | 25.9 | 38.8 | 45.4 | 90.8 | 136.2 | 181.6 | 227.6 |
| (,000) BTU/h | 51.3 | 102.7 | 154.1 | 180.0 | 360.0 | 540.0 | 720.0 | 900.0 |
| Burner Ignition: | 9vdc Re-ignitor standard on all units | | | | | | | |
| Shipping Weight: | 155 lbs 71 kg | 220 lbs 100 kg | 275 lbs 125 kg | 405 lbs 184 kg | 810 lbs 368 kg | 1215 lbs 552 kg | 1620 lbs 736 kg | 2025 lbs 920 kg |
| Shipping Dimensions: | | | | | | | | |
| Length | 21" 534 mm | 21" 534 mm | 21" 534 mm | 36" 915 mm | 43" 1092 mm | 43" 1092 mm | 86" 2184 mm | 43" 1092 mm |
| Width | 22" 559 mm | 35" 889 mm | 35" 889 mm | 36" 915 mm | 48" 1219 mm | 68" 1727 mm | 39" 991 mm | 108" 2743 mm |
| Height | 42" 1067 mm | 42" 1067 mm | 52" 1321 mm | 68" 1727 mm | 72" 1829 mm | 72" 1827 mm | 72" 1829 mm | 76" 1931 mm |



(Model 160H)

Optional Accessories:

- Economy Operation Kit
- Filtaire for Heavy Ends
- Relief Valve "Pipe Away" Adapter
- Auto Ignition Kit-110VAC
- Indoor Installation Kit (for roof penetration)

¹ Max Allowable Working Pressure (MAWP)

² Volumetric flow rates are stated as 'nominal'

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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