

PRO FD

Low Flow Dryer System

Models | PFD010 to PFD045

Flow Rates 4 SCFM (7 Nm³/hr) to 44 SCFM (75 Nm³/hr)

Introducing the PRO FD Heatless Desiccant Dryer System. Ideal for smaller, point of use applications, our new PRO FD dryer line is designed with smart features and market-leading energy efficiency.

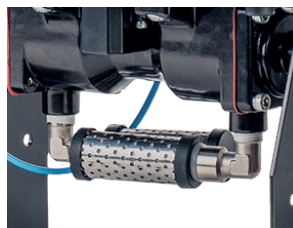
The new PRO FD dryer system is a compact, easy to install, drying solution. Drawing on over 40 years of experience in drying technology expertise, our team of engineers designed this system to reduce service time, require minimal installation effort and provide drastically improved energy efficiency.

With flexible installation options and a unique adjustable purge valve, PRO FD delivers a proven compressed air drying solution for a variety of applications. All dryers are built to be fully compliant with international standards and have multiple voltage options, suitable for worldwide installation.



Complete System

Supplied with a 0.01 micron prefilter and a 1 micron outlet filter



Externally Fitted Silencers

Easily accessed for reduced service time



Illuminated Display Controller

Simple and easy to read controller supplied as standard on all models

- **Flexible Installation** Multiported manifolds allow for flexible installation options and compact design is ideal for small spaces
- **Dual Purpose Brackets** Dryer can be installed free standing or wall mounted with one set of multi-function brackets
- **Simplified Service** Easily removable desiccant cartridges for quick and efficient change out
- **Adjustable Purge** Unique purge valve built into cartridge design enables customer to adjust to requirements
- **Visual Diagnostics** Tower pressure gauges supplied as standard for clearly visible diagnostics and accurate pressure readings
- **Validated Performance** All Dryers are 100% function tested prior to dispatch and perform in accordance to ISO 8573-1 classes 1, 2, or 3 for water vapour



For further information please call: **+44 (0) 191 417 7816**

Technical Specification

| Dryer model | Pipe size inches | Inlet flow rate* | | Dimensions mm | | | | | Weight Kg | No. of cartridges |
|---------------|------------------|------------------|------|---------------|-----|-----|-----|-----|-----------|-------------------|
| | | Nm³/hr | SCFM | A | B | C | D | E | | |
| PFD010G16B40X | ¾" | 7 | 4 | 610 | 332 | 303 | 80 | 183 | 20 | 2 |
| PFD015G16B40X | ¾" | 10 | 6 | 660 | 332 | 303 | 80 | 183 | 22 | 2 |
| PFD020G16B40X | ¾" | 14 | 8 | 710 | 332 | 303 | 80 | 183 | 24 | 2 |
| PFD025G16B40X | ¾" | 17 | 10 | 745 | 332 | 303 | 80 | 183 | 26 | 2 |
| PFD030G16B40X | ¾" | 25 | 15 | 779 | 332 | 303 | 80 | 183 | 28 | 2 |
| PFD035G16B40X | ¾" | 42 | 25 | 1015 | 332 | 303 | 130 | 183 | 36 | 2 |
| PFD040G16B40X | ¾" | 59 | 35 | 1247 | 332 | 303 | 130 | 183 | 46 | 2 |
| PFD045G16B40X | ¾" | 75 | 44 | 1454 | 332 | 303 | 130 | 183 | 52 | 2 |

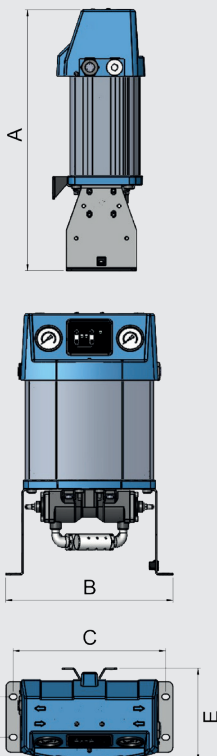
* Stated flows are for an inlet pressure of 7 barg (100 psig) with reference to 35°C, 1 barg (abs.), 0% relative water vapour pressure. For flow at other pressures apply the appropriate correction factors, terms and dewpoint.

| Specification | |
|-----------------------|---|
| Operating Pressure | Min 4 barg (58 psig) - Max 16 barg (232 psig) |
| Ambient Temp | +1.5 °C (34 °F) to +50 °C (122 °F) Standard |
| Inlet Air Temp | +1.5 °C (34 °F) to +50 °C (122 °F) Standard |
| Noise Level | <90 db(C) Depress <75 db(A) Purge* |
| Electrical Connection | 115V & 230V options |
| Dewpoint | Standard -40°C / -40°F Option -70°C / -94°F Option -20°C / -4°F |

* PFD044G16B40X

| Temperature (TCF) | | | | | | | | Pressure dewpoint (DCF) | | | |
|-------------------|------|------|------|----|------|------|------|-------------------------|------|-----|------|
| Celsius (°C) | 20 | 25 | 30 | 35 | 40 | 45 | 50 | Celsius (°C) | -20 | -40 | -70 |
| Fahrenheit (°F) | 68 | 77 | 86 | 95 | 104 | 113 | 122 | Fahrenheit (°F) | -4 | -40 | -94 |
| Correction factor | 1.07 | 1.06 | 1.04 | 1 | 0.88 | 0.67 | 0.55 | Correction factor | 1.23 | 1 | 0.77 |

| Operating pressure (PCF) | For maximum flow rate, multiply model flow rate by the correction factor corresponding to the working dryer | | | | | | | | | | | | | |
|---------------------------|---|------|------|------|------|------|------|------|------|------|------|------|------|--|
| Operating Pressure (barg) | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| Operating Pressure (psig) | 58 | 72 | 87 | 100 | 116 | 130 | 145 | 160 | 174 | 189 | 203 | 218 | 232 | |
| Correction Factor | 0.62 | 0.75 | 0.87 | 1.00 | 1.12 | 1.25 | 1.37 | 1.50 | 1.62 | 1.75 | 1.87 | 2.00 | 2.12 | |



Technical Notes

- All dryer applications and sizing should be confirmed by Walker Filtration. Please contact nearest sales team for information on recommended sizing and air quality for your application need.
- Floor fixing dimensions are given in the above illustrations.
- For sizing and further information on service kits and accessories, please refer to the price guide or brochure.

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