

## PROSFD

Walker Filtration's range of low flow Desiccant Dryers | PD004 to PD035  
Flow rates 4 SCFM (7 Nm<sup>3</sup>/hr) to 35 SCFM (59 Nm<sup>3</sup>/hr)

**With flow rates from 4 – 35 SCFM, our range of low flow PROSFD models provide a proven solution for compressed air drying and are ideal for smaller, point of use applications.**

Designed to deliver optimum performance in line with the highest standards of air purity, as specified in ISO 8573-1: 2010, PROSFD models PD004 to PD035 are supplied as standard with a XA grade 0.01 micron coalescing filter.

With a compact design and multi-ported manifold, the dryer can be installed vertically and horizontally, providing a flexible solution to your compressed air drying needs. This highly reliable, high efficiency range of dryers features built-in energy management, allowing the purge flow to be isolated during periods of low demand for efficient use of compressed air. Whatever your application requirement, PROSFD delivers a compressed air drying solution you can trust.



**0.01 Micron Pre-filter**  
Supplied as standard



**LED Controller**  
Supplied as standard

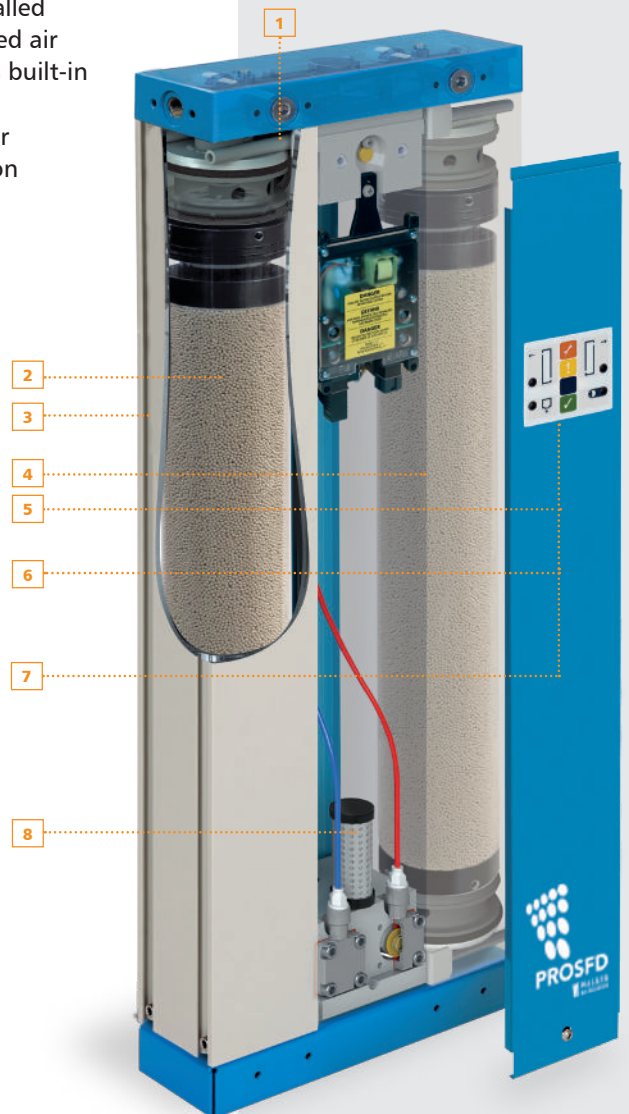
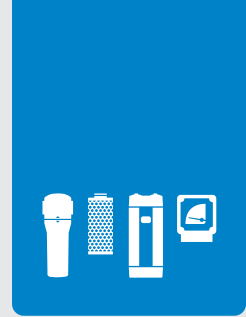


**1 Micron Dust Filter**  
Integrated into  
desiccant cartridge

- |   |  |
|---|--|
| <b>1</b> Multi-ported manifold and compact design allows for flexible installation              | <b>5</b> PD004 to PD035 feature 232 psig (16 barg) standard operating pressure             |
| <b>2</b> Controlled desiccant bed geometry ensures consistent and reliable dewpoint performance | <b>6</b> Intelligent LED controller with built-in energy management (supplied as standard) |
| <b>3</b> Anodized aluminum extrusions provides corrosion protection                             | <b>7</b> Energy management feature isolates purge flow during periods of low demand        |
| <b>4</b> Desiccant columns can be removed for quick and efficient change out.                   | <b>8</b> Internal Walker Filtration designed silencer reduces noise levels below 85dBA     |



For further information please visit [www.walkerfiltration.com](http://www.walkerfiltration.com)

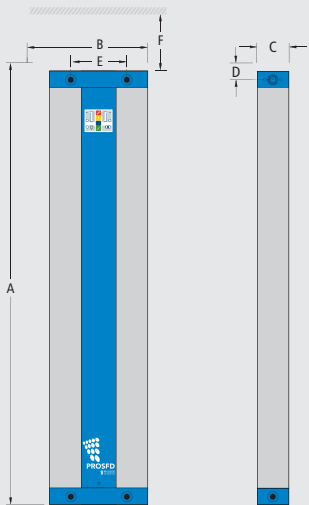
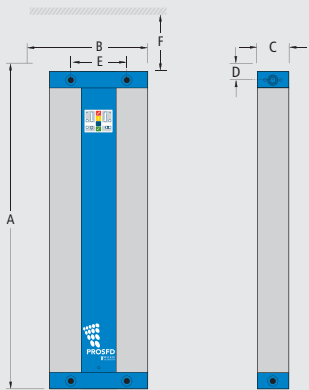




# Technical Specification PD004 - PD035

Dryer model	Pipe size inches	Inlet flow rate*		Dimensions inches (mm)						Weight lb (Kg)	No. of cartridges	Included filter model
		SFCM	Nm <sup>3</sup> /hr	A	B	C	D	E	F			
PD004	3/8	4	7	17.52 (445)	11.06 (281)	3.62 (92)	0.87 (22)	6.30 (160)	16.34 (415)	29 (13)	2	A30032XA
PD006	3/8	6	10	20.00 (504)	11.06 (281)	3.62 (92)	0.87 (22)	6.30 (160)	18.70 (475)	31 (14)	2	A30032XA
PD008	3/8	8	14	22.24 (564)	11.06 (281)	3.62 (92)	0.87 (22)	6.30 (160)	21.06 (535)	33 (15)	2	A30032XA
PD010	3/8	10	17	25.00 (634)	11.06 (281)	3.62 (92)	0.87 (22)	6.30 (160)	23.82 (605)	36 (17)	2	A30032XA
PD015	3/8	15	25	32.09 (814)	11.06 (281)	3.62 (92)	0.87 (22)	6.30 (160)	30.91 (785)	43 (20)	2	A30032XA
PD025	3/8	25	42	41.93 (1065)	11.06 (281)	3.62 (92)	0.87 (22)	6.30 (160)	40.75 (1035)	53 (24)	2	A30032XA
PD035	3/8	35	59	57.56 (1462)	11.06 (281)	3.62 (92)	0.87 (22)	6.30 (160)	56.30 (1430)	68 (31)	2	A30032XA

\*Stated flow capacities based on an inlet pressure of 100 psig (7 barg), inlet temp of 95°F (35°C) and outlet pressure dewpoint of -40°F (-40°C). For capacities at other conditions, please refer to the correction factors below. Flow rates referenced to standard conditions, 68°F (20°C) at 14.7 psia (1013.25 mbara), and 0% relative water vapor.



Models PD004-PD035

Specification		
Standard pressure dewpoint	-40°F**	-40°C**
Optional pressure dewpoint	-100°F***	-74°C***
Minimum inlet air pressure	58 psig	4 barg
Maximum inlet air pressure	232 psig	16 barg
Power supply	12 - 24VDC or 100 - 240VAC (50-60Hz)	
Minimum ambient air temperature	41°F	5°C
Minimum inlet temperature	35°F	1.5°C
Maximum inlet temperature	122°F	50°C

\*\* ISO Class 2 (ISO 8573-1:2010)      \*\*\* ISO Class 1 (ISO 8573-1:2010)

## Dryer correction factors

Operating pressure (PCF)													
psig	58	72	87	100	116	130	145	160	174	189	203	218	232
barg	4	5	6	7	8	9	10	11	12	13	14	15	16
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

Temperature (TCF)							
Fahrenheit (°F)	68	77	86	95	104	113	122
Celsius (°C)	20	25	30	35	40	45	50
Correction factor	1.07	1.06	1.04	1.00	0.88	0.78	0.55

Pressure Dewpoint (DCF)		
Fahrenheit (°F)	-40	-94
Celsius (°C)	-40	-70
Correction factor	1.00	0.70

## PROSFD Sizing Example

To correctly select the PROSFD model suitable for your application the following information is required: Minimum Inlet Pressure, Maximum Inlet Temperature, Maximum Inlet Flow and Required Pressure Dewpoint (PDP).

Requirements	Correction Factor
Maximum compressor inlet flow	15 scfm (25 Nm <sup>3</sup> /hr)
Actual minimum inlet pressure to the dryer	87 psig (6 barg)
Maximum inlet temperature	77°F (25°C)
Pressure dewpoint (PDP)	-94°F (-70°C)
<b>Corrected dryer flow rate</b>	$\frac{\text{Inlet flow rate}}{\text{PCF} \times \text{TCF} \times \text{DCF}} = \frac{15}{(0.87 \times 1.06 \times 0.70)} = 23.2 \text{ scfm (39Nm}^3\text{/hr)}$
<b>Appropriate Dryer Size</b>	Dryer model is selected based on the corrected flow rate, i.e. PD0025.

## Technical notes

- PROSFD features easy removable desiccant cartridges with integral 1 micron dust filter.
- For additional security, Walker Filtration recommends fitting an RX1 dust filter to the outlet.
- All models are supplied together with an XA pre-filter.
- Additional filtration, including a water separator, is recommended for high loaded inlet conditions.
- Standard models operate at 100 psig (7 barg); for other pressures, please specify at time of order.

