HEATLESS DESICCANT COMPRESSED AIR DRYER

PRODRY

WALKER FILTRATION

Leaflet V-02-01-UK

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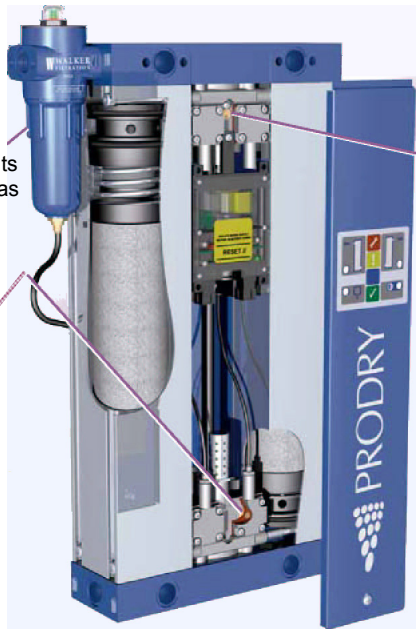
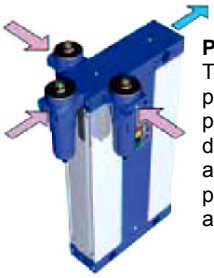
XA Filter
XA grade filter housing with electronically timed drain, bolts directly onto dryer. Supplied as standard.

Unique multi-function valve block combines a shuttle valve, purge valve and two exhaust valves for high reliability



Simple purge plug changeout. No need to dismantle unit.



Porting option
The multi-port manifold providers a number of porting options. Filters fit directly onto the back, front and sides of the dryer proving beneficial for any application.

Intelligent processor
Controls the drying performance and diagnostics, as well:

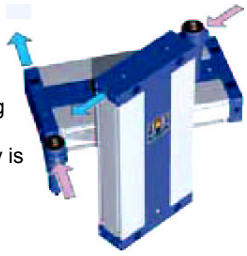
Software interface
The software interface provides the user with further diagnostics, where the dryer setting can be changed and interrogated.

Remote alarm
An in-built alarm relay facilitates an alarm connection remote from the dryer.

Memory retention
A full memory recall feature allow the dryer to remember the point in the operating cycle when the energy management feature was activated and returns to complete the cycle.

Diagnostics
The intelligent processor provides the user with self-monitoring diagnostics. The dryer performance can be visually monitored via the display window.

Suitable for horizontal or vertical installation
Due to the design incorporating a spring loaded desiccant cartridge, the Pro Dry is suitable for use in a horizontal or vertical orientation-ideal for applications where space is limited



Dryer operating OK

Service warning
appears every 11,500 hours

Service due
appears every 12.000 hours

Monitoring & servicing made easy

In many applications, the dryer is installed in an inaccessible location, therefore monitoring the performance can be difficult. With the sophisticated diagnostics package this is no longer a problem, user can monitor the status of the dryer locally via the diagnostics panel or remotely via a PC.

Whether monitoring the dryer locally at the point of application or remotely, the user will be alerted to a service condition. The service indication is controlled by the intelligent processor. Every 11,500 hours, a yellow L.E.D. appears on the diagnostic panel warning the user that the desiccant has 500 hours further use. Every 12,000 hours a red L.E.D. appears alerting the user that the service is now due. This function provides the user with scheduled services, eliminating unnecessary, unplanned maintenance downtime.

Servicing the Pro Dry is easy. The top manifold remains in place in the pipeline, whilst the dryer is removed. Desiccant cartridges are quickly and easly removed and replaced and the dryer re-installed into the pipeline.

Technical information

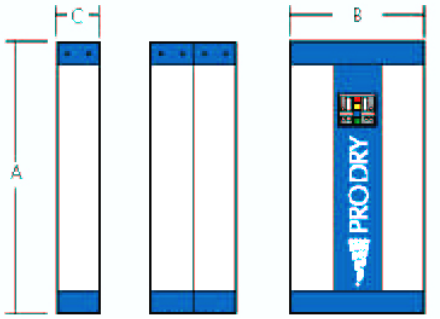
Drye Sizing Table

Simplex Pro Dry modellare supplied with an A30XA pre-filter. Duplex models are supplied with an A55XA pre-filter.

Dryer Model	Pipe Size	Inlet Flow Rate Nm³/h	Inlet Flow Rate SCFM	Dryer Configuration	Dimensions mm A	Dimensions mm B	Dimensions mm C	Weight Kg	Weight lb	Dimensions inch A	Dimensions inch B	Dimensions inch C	Dryer Model
P006SFD	⅜"	10	6	Simplex	504	281	92	14	31	20	11	3.6	P006SFD
P008SFD	⅜"	14	8	Simplex	565	281	92	15	33	22	11	3.6	P008SFD
P010SFD	⅜"	17	10	Simplex	635	281	92	16.5	36	25	11	3.6	P010SFD
P015SFD	⅜"	26	15	Simplex	815	281	92	19.5	43	32	11	3.6	P015SFD
P022SFD	⅜"	38	22	Simplex	1065	281	92	24	53	42	11	3.6	P022SFD
P033SFD	⅜"	56	33	Simplex	1460	281	92	31	68	57.5	11	3.6	P033SFD
P044SFD	½"	75	44	Duplex	1065	281	184	47	104	42	11	7.25	P044SFD
P066SFD	½"	112	66	Duplex	1460	281	184	61	135	57.5	11	7.25	P066SFD

Note: The temperature and pressure correction factors (below) should be applied to the above flow rates to suit the application and ensure dryer performance. All flow rates are based on 7.0 barg (100 psig) and 35°C (95°F) at the dryer inlet.

Specification	
Standard pressure dewpoint	- 40°C (-40°F) - 70°C (-100°F) with application of flow correction factor
Minimum working pressure	4 barg (58 psig)
Maximum working pressure	16 barg (232 psig)
Power supply	12VDC to 24VDC or 100 VAC to 240 VAC
Minimum inlet temperature	1.5°C (35°F)
Maximum inlet temperature	50°C (122°F)
Minimum ambient temperature	5°C (41°F)



MODELL PO 44SFD
& PO 66SFD

Dryer Correction Factors

Operating pressure barg (psig)	4 (58)	5(72)	6 (87)	7 (100)	8 (116)	9 (130)	10 (145)	11 (160)	12 (174)	13 (189)	14 (203)	15 (218)	16 (232)
Pressure correction factor (PCF)*	0.62	0.75	0.87	1	1.12	1.25	1.37	1.5	1.62	1.75	1.87	2.0	2.12

* Always use the pressure correction fadtor (PCF) closet to the actual inlet pressure condition

Temperature °C (°F)	20 (68)	25 (77)	30 (86)	35 (95)	40 (104)	45 (113)	50 (122)
Temperature correction factor (TCF)	1.07	1.06	1.04	1.00	0.93	0.78	0.64

Dewpoint °C (°F)	-40 (-40)	-70 (-100)
Dewpoint correction factor (DCF)	1	0.7

How to select a Pro Dry

To select the Pro Dry dryer suitable for your application, the following information is required:

● Minimum inlet pressure ● Maximum inlet flow ● Maximum inlet temperature ● Required dewpoint

With the above information follow the selection example below:

Compressed outlet pressure @ 7 barg (100 psig) and flow rate @ 70 Nm³/h (41 scfm)
Dryer inlet pressure, after pipework, valves, receiver and filtration @ 6.3 barg (91 psig)

Dryer inlet temperature	25°C (77°F)
Outlet dewpoint	- 70°C (-100°F)
Pressure correction factor (PCF)	0.9
Temperature correction factor (TCF)	1.06
Dew point correction factor (DCF)	0.7

$$\text{Corrected dryer flow rate} = \frac{\text{Conpressor flow rate}}{\text{PCF x TCF x DCF}} = \frac{70}{0.9 \times 1.06 \times 0.7} = 105\ \text{Nm}^3\text{/h (62 scfm)}$$

As the above dryer sizing table, the correct dryer for this application,
with a corrected flow rate of 105 Nm³/h (62 scfm) is a P066SFD