



DRYPOINT® M

Standard Series Membrane Air Dryers

+ Features and Benefits

TWIST 45 TECHNOLOGY:

highest possible performance
from a membrane with 45° wound fiber

MAXIMUM RELIABILITY:

provides consistent dew point suppression
and lasting performance even in the
most demanding environments

HIGHEST PERFORMANCE:

saves energy with zero electricity required
and achieves dew point in a minimal amount
of time with minimum purge



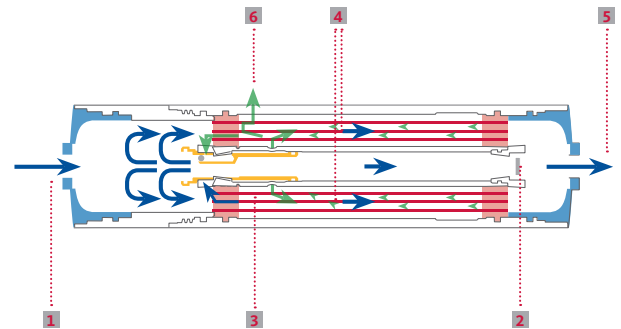
MAINTENANCE FREE:

with no moving parts or electrical components
trouble-free operation is achieved
even in mobile applications

PERFECT DESIGN:

the small footprint combined with the variety
of configurations possible make an
ideal choice for all types of applications

+ Operating Principle

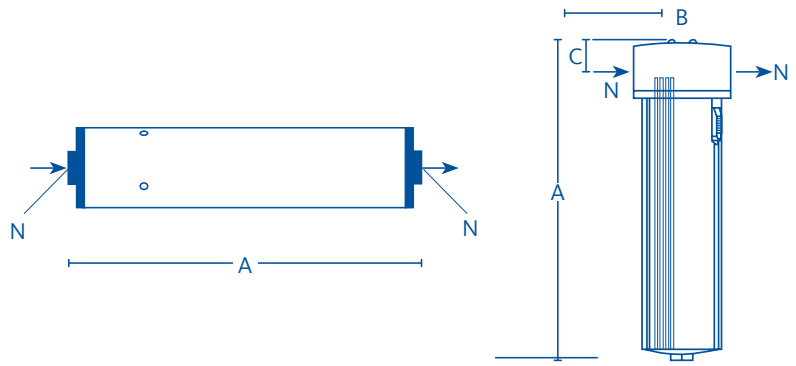


- 1 The compressed air flows into the core tube of the membrane dryer.
- 2 In the filter element, it is diverted; filtered compressed air enters the hollow fibres of the membrane element.
- 3 The purge air required for drying is continuously diverted in the outlet zone of the membrane element and is atmospherically expanded through a defined nozzle opening. This purge air is significantly drier due to the expansion, as the humidity contained in the compressed air is now distributed to a multiple of volume. The dry purge air is led via the outside of the membrane fibres.
- 4 Two air flows with different moisture contents move in a reverse current through the membrane element, only separated by the membrane wall. The humid compressed air flows in the hollow-fibre membranes, and the dry purge air flows outside. As a result of the different moisture contents, the humidity diffuses from the compressed air into the purge air. The drying process is highly efficient thanks to the controlled winding of the membrane fibres, the TWIST 45 technology.
- 5 The dry compressed air leaves the membrane element.
- 6 The humid purge air is released into the environment.

DRYPOINT® M Membrane Dryers

standard series membrane air dryers without integrated pre-filtration

Max. standard operating conditions	+140 °F / 100 psig
Max. optional operating conditions	+120 °F / 180 psig
Differential pressure	1.45 to 4.35 psid
Required pre-filtration	.01 µm



Inlet PDP	Desired Outlet PDP Result Based on Nearest Inlet PDP Parameter							
	+22 °F		0 °F		-30 °F		-40 °F	
+40 °F (with refrigerant drying)								
+100 °F (without refrigerant drying)	+65 °F		+35 °F		-4 °F		-20 °F	
Model Selector	Flow Rate (scfm)							
	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet
DM 08-14 RA	1.83	1.65	.98	.81	.64	.48	.58	.42
DM 08-19 RA	3.66	3.29	2.07	1.72	1.44	1.08	1.33	.96
DM 08-23 RA	5.49	4.94	3.10	2.57	2.15	1.61	2.00	1.44
DM 08-29 RA	7.32	6.59	4.13	3.43	2.87	2.15	2.63	1.89
DM 10-34 CA	9.80	8.82	5.70	4.73	4.10	3.08	3.85	2.77
DM 10-41 CA	11.00	9.90	6.20	5.15	4.31	3.23	3.90	2.81
DM 10-47 CA	14.60	13.14	8.25	6.85	5.75	4.31	5.20	3.74
DM 20-48 CA	22.00	19.80	12.40	10.29	8.63	6.47	7.90	5.69
DM 20-53 CA	29.30	26.37	16.50	13.70	11.50	8.63	10.50	7.56
DM 20-60 CA	38.30	34.47	24.20	20.09	17.30	12.98	16.00	11.52
DM 20-67 CA	49.30	44.37	28.90	23.99	20.26	15.20	19.00	13.68
DM 40-61 CA	59.80	53.82	35.50	29.47	25.20	18.90	23.50	16.92
DM 40-75 CA	89.50	80.55	53.30	44.24	37.90	28.43	35.30	25.42
DM 40-90 CA	119.30	107.37	71.00	58.93	50.50	37.88	46.80	33.70
	Purge Air 10%		Purge Air 17%		Purge Air 25%		Purge Air 28%	

DRYPOINT® M	DM08N19RA	DM08N24RA	DM08N28RA	DM08N34RA	DM10N34CA	DM10N41CA	DM10N47CA
Connection Size (NPT)	¼"	¼"	¼"	¼"	¾"	¾"	¾"
Dimension data							
A (inches)	5.51	7.48	9.06	11.42	17.00	16.10	18.46
B (inches)	-	-	-	-	2.95	2.95	2.95
C (inches)	-	-	-	-	1.10	1.10	1.10
Diameter	ø1.77	ø1.77	ø1.77	ø1.77	-	-	-
Weight (lbs)	.60	.77	.90	1.08	4.13	4.58	4.97

DRYPOINT® M	DM20N48CA	DM20N53CA	DM20N60CA	DM20N67CA	DM40N61CA	DM40N75CA	DM40N90CA
Connection Size (NPT)	¾"	¾"	¾"	¾"	1½"	1½"	1½"
Dimension data							
A (in inches)	18.98	20.95	23.70	26.46	23.20	28.30	34.60
B (inches)	3.94	3.94	3.94	3.94	5.74	5.74	5.74
C (inches)	1.34	1.34	1.34	1.34	1.89	1.89	1.89
D (inches)	-	-	-	-	-	-	-
Weight (lbs)	7.66	8.38	8.99	9.64	17.14	19.56	22.00

Correction Factor

Operating Pressure (psig)	60	75	90	100	115	130	145	160	175
Correction Factor	.39	.57	.78	1.00	1.19	1.40	1.62	1.87	2.11

Subject to technical errors, changes, omissions and/or corrections without prior notice.