

## Your advantages with Membrane Dryers

**DMD Series** (Light construction)

**DMM Series** (Pressure-resistant aluminium housing)



- Multifunctional applications
- No electrical connection needed
- No moving parts
- No liquid condensate to be treated
- No oxygen loss

The DMM and DMD membranes are an excellent alternative to refrigerant and adsorption dryers. Membrane dryers can be selected independently from the desired pressure dew point and need no maintenance. In order to protect the delicate membrane surface, a particle and oil-fine filtration is required. The appropriate filter combinations are available in our filter program.

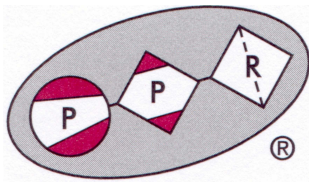
The purge air, saturated with water vapour is dispersed freely in the environment without any noise exposure and without the need for a condensate treatment.

Membrane dryers are specially suitable as point-of-use dryers or in areas where there is no electrical power supply available. Due to the dew point suppression, membranes provide in combination with refrigerant dryers extreme low pressure dew points.

Membrane dryers make use of a small quantity of the compressed air as purge air. The quantity of purge air depends, among others, on the desired pressure dew point. In the model DMM, the membrane bundle is located in a pressure-resistant housing. This construction offers the possibility to interrupt the purge air flow by means of an optionally mounted solenoid valve, which can be operated from the compressor on-off contact.



Optional: Purge-Stop Valve



**Technical Data Membrane Dryers DMM and DMD Series**

Model	Inlet m³/h	Outlet m³/h	Connection in/out	Weight kg	Ø mm	Length mm	Inlet filter combination
DMM 1	2,4	2,0	R 3/8"	2,5	209	281	EFA60SU
DMM 2	7,9	6,8	R 3/8"	2,8	209	387	EFA60SU
DMM 3	16,4	13,9	R 1/2"	3,0	209	486	EFA120SU
DMM 4	24,0	20,7	R 1/2"	3,6	209	696	EFA120SU
DMM 5	42,0	35,8	R 3/4"	5,9	267	498	EFA180SU
DMM 6	70,2	60,6	R 3/4"	6,2	267	696	EFA180SU
DMM 7	117,0	99,0	R 1"	7,6	310	747	EFA300SU
DMM 8	186,0	158,0	R 1"	15,9	346	885	EFA300SU
DMM 9	240,0	205,0	R 1"	18,1	346	1040	EFA300SU
DMD 20.1	2,6	2,3	R 3/8"	0,6	53	312	EFA60SU
DMD 20.2	10,1	8,8	R 3/8"	0,8	53	671	EFA60SU
DMD 20.3	15,8	13,9	R 3/8"	2,2	99	389	EFA60SU
DMD 20.4	33,7	29,8	R 1/2"	3,1	99	683	EFA120SU
DMD 20.5	56,1	49,6	R 1/2"	4,9	99	1041	EFA120SU
DMD 20.6	110,0	97,0	R 3/4"	6,0	125	1050	EFA180SU

The flow capacity is based on the intake volume of compressed air by the compressor at 20°C and 1 bar (a)

All data acc. to DIN 7183: Working pressure: 7 bar, Pressure dew point: +3°C, Working temperature 35°C

The technical data are for the dryers without filters.

A selection in case of divergent working conditions can be made using the following correction factors.

**F1 Capacity factors\* for different working pressure**

4 bar	6 bar	<b>7 bar</b>	8 bar	9 bar	10 bar	11-14 bar
0,4	0,8	<b>1</b>	1,2	1,4	1,7	on request

**F2 Capacity factors\* for different working temperature**

5°C	25°C	<b>35°C</b>	40°C	50°C	higher temp.
1,7	1,2	<b>1</b>	0,9	0,8	on request

**F3 Capacity factors\* for different pressure dew point**

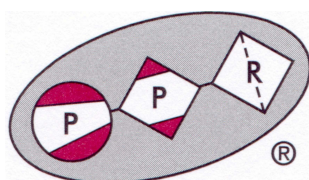
-40°C	-30°C	-10°C	<b>+3°C</b>	+10°C
0,4	0,5	0,7	<b>1</b>	1,1

\*These data are approximate and may slightly vary from model to model.

\*In case of deviation of more than one factor, the factors should be multiplied.

**Selection formula: =  $\frac{\text{Compressor capacity}}{F1 \cdot F2 \cdot F3}$**

Design data:	Min.	Nom.	Max.	Purge air consumption for PDP:	+3°C	approx. 15%
Inlet pressure:	4 bar (g)	7 bar (g)	14 bar (g)	-10°C	approx. 17%	
Inlet temperature:	5°C	35°C	66°C	-20°C	approx. 22%	
Pressure dew point:	-40°C	+3°C	+10°C	-40°C	approx. 24%	



Pneumatic Products Raupach GmbH  
 Aschaffener Straße 5  
 D-64546 Mörfelden-Walldorf  
 Tel.-No.: (+49) 6105 \* 71022  
 Fax-No.: (+49) 6105 \* 75458  
 E-Mail: [info@pneumatic-products.de](mailto:info@pneumatic-products.de)  
 Internet: [www.pneumatic-products.de](http://www.pneumatic-products.de)

