

MEMBRANE AIR DRYERS – MFP

DESCRIPTION

MFP membrane air dryers have been developed for high efficient removal of water vapours from compressed air. Super fine coalescing filter is required upstream.

APPLICATIONS⁽¹⁾

- Automotive painting
- Industrial "Point-Of-Use" drying
- Low dew point instrument air
- Pneumatics
- Medical air
- Analytical Equipment
- Pressurizing electrical cabinets

⁽¹⁾MFP membrane dryers can be used in variety of applications. For applications not listed please contact us or your local dealer.



FILTER ELEMENT RATING ACCORDING TO ISO8573-1

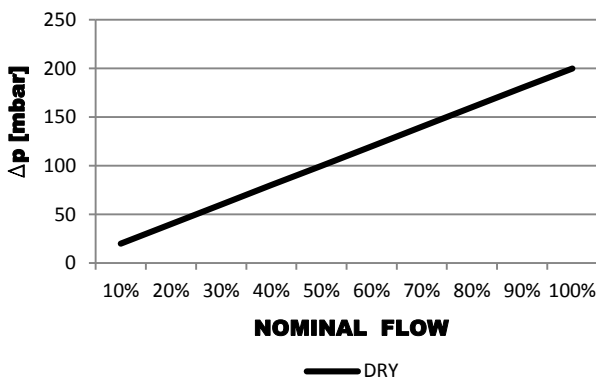
Solid particles	Water	Oil
-	2*	-

*Outlet dew point depends on inlet conditions and flow. For specific operating conditions check table below.

TECHNICAL SPECIFICATION

Operating temperature	1,5 – 60 °C	35 – 140 °F
Operating pressure	0 – 12 barg	0 – 181 psi
Differential pressure	200 mbar	2,9 psi
Max. pressure change	1 bar/s	14,5 psi/s
Required inlet air quality (particles)*	Class 1	
Required inlet air quality (oil)	Class 1 (< 0,01mg/m3)	
General arrangement	Vertical, Horizontal	

*If air quality doesn't match requirements, membrane can be permanently damaged.



MATERIALS

Membrane fiber	PES
End cap	Nylon
Shell	Aluminium



FLOTECH

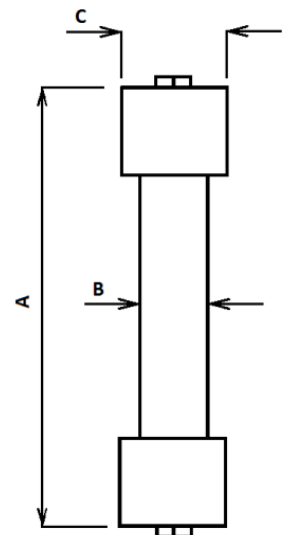
Compressor & Vacuum Parts Ltd

SIZES

	Outlet dew point	15°C	3°C	-20°C	-40°C
Purge air consumption		10%	14%	21%	29%
% Water removal		69,70%	86,53%	98,20%	99,77%

Model	PIPE SIZE	Dimensions			15°C		3°C		-20°C		-40°C	
		A	B	C	[Nm ³ /h]	[scfm]	[Nm ³ /h]	[scfm]	[Nm ³ /h]	[scfm]	[Nm ³ /h]	[scfm]
MFP 3	¼"	224	43,7	59,4	3	1,8	2,2	1,3	1,4	0,8	1,02	0,6
MFP 6	¼"	325	43,7	59,4	6	3,5	4,3	2,5	2,8	1,7	2	1,2
MFP 9	¼"	427	43,7	59,4	9	5,3	6,4	3,8	4,3	2,5	3,1	1,8
MFP 12	¼"	503	43,7	59,4	12	7,1	8,5	5,0	5,7	3,3	4,1	2,4
MFP 18	½"	312	61	81,3	18	10,6	12,8	7,5	8,5	5,0	6,2	3,6
MFP 24	½"	376	61	81,3	24	14,1	17	10,1	11,3	6,7	8,2	4,8
MFP 32	½"	465	61	81,3	32	21,2	25,6	15,1	17	10	12,4	7,3
MFP 44	½"	592	61	81,3	44	28,3	34,1	20,1	22,7	13,4	16,4	9,7
MFP 63	½"				63	37,1	44,9	26,4	29,7	17,5	21,5	12,7
MFP 90	½"				90	53	67,3	39,6	43,8	25,8	31,1	18,3
MFP 123	½"				123	72,4	91,7	54,0	58,8	34,6	42,6	25,1
MFP 180	1"				180	106,6	128,1	75,4	85,5	50,3	61,5	36,2

At 7bar and inlet dew point +35°C, data refers on inlet flow capacity.



CORRECTION FACTORS

To calculate the correct capacity of a given filter based on actual operating conditions, multiply the nominal flow capacity by the appropriate correction factor(s).

CORRECTED CAPACITY = NOMINAL FLOW CAPACITY x C_{OP}

OPERATING PRESSURE

[bar]	4	5	6	7	8	9	10	11	12
[psi]	58	72	87	100	115	130	145	160	174
C _{OP}	0,41	0,56	0,76	1	1,22	1,48	1,76	1,86	2,22

MAINTENANCE

Once per year make a visual check of membrane dryer and make sure there is no visual damage.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

	<p>Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008 Reg. number: 200285</p>	
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