

Hi-Dri

Membrane Dryers





Hi-Dri. Compressed Air Membrane Dryers

Hi-Dri Membrane Dryers are suitable for a wide variety of applications, various dew point reductions and challenging requirements.

Ideal for "point of use" dehydration of compressed air, the Hi-Dri dryer range combines highest efficiency and reliability in a very compact design. It is also excellent for breathing air applications as its unique membrane construction is not oxygen depleting.

Applications

- Industrial "Point of Use" drying
- Low dew point instrument air
- Medical / Dental Air
- Paint and Bodyshops
- Analytical Equipment
- Pneumatics / Robotics
- Laser Printers

Features

- Low Purge Air in comparison with desiccant dryers
- Compact in-line design
- Flows up to 106 cfm and dewpoints down to -40C
- Spiral wound membrane for highest efficiency
- Maintenance-free and easy to install
- Available for next day delivery

Pre-Filtration

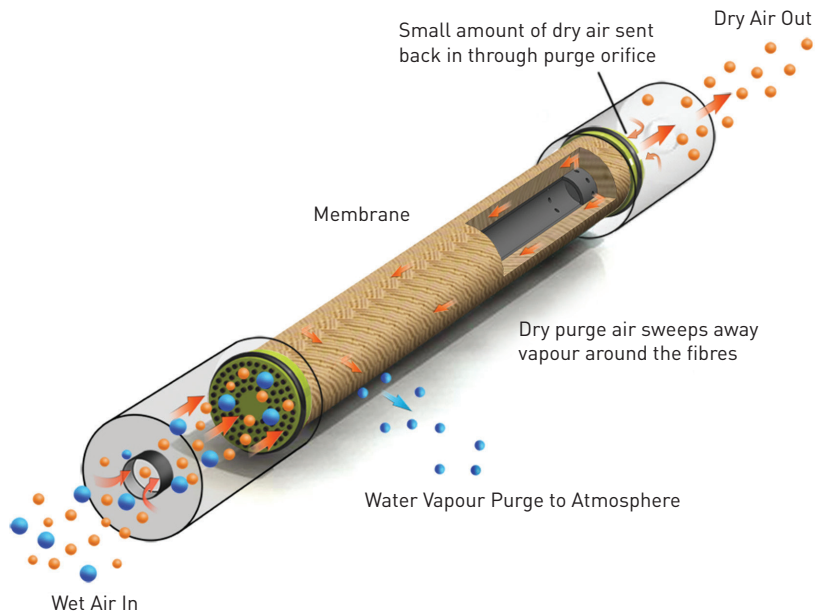
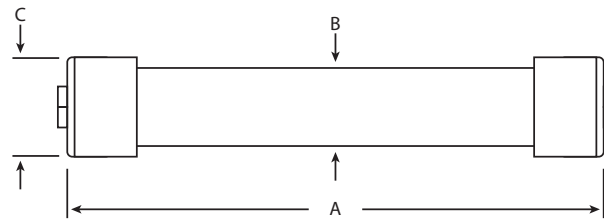
For optimum performance it is recommended that each Hi-Dri is fitted with two stage pre-filtration. First stage 1micron particulate filter HF Grade 3, second stage 0.01 micron coalescing filter HF Grade 4. These high quality filter elements will remove bulk oil and water prior to entering the Hi-Dri. Giving increased service life of the dryer and creating even lower sustainable dewpoints.



Inlet Conditions	7 bar Pressure Dewpoint Suppression from +35degC to:							
Outlet Dewpoint	15°C		3°C		-20°C		-40°C	
Purge	10%		14%		21%		29%	
Model	lpm	cfm	lpm	cfm	lpm	cfm	lpm	cfm
Hi-DRI 5	50	1.8	36	1.3	24	0.8	17	0.6
Hi-DRI 10	100	3.5	71	2.5	47	1.7	34	1.2
Hi-DRI 15	150	5.3	107	3.8	71	2.5	51	1.8
Hi-DRI 20	200	7.1	142	5	95	3.3	69	2.4
Hi-DRI 30	300	10.6	213	7.5	142	5.0	103	3.6
Hi-DRI 40	400	14.1	284	10.1	189	6.7	137	4.8
Hi-DRI 60	600	21.2	427	15.1	284	10.0	206	7.3
Hi-DRI 80	800	28.3	569	20.1	379	13.4	274	9.7
Hi-DRI 105	1050	37.1	747	26.4	497	17.6	360	12.7

Performance correction factors for different pressures									
Pressure (barg)	4	5	6	7	8	9	10	11	12
Factor	0.41	0.56	0.76	1	1.22	1.48	1.76	1.86	2.22

Dimensions	Hi-DRI 5	Hi-DRI 10	Hi-DRI 15	Hi-DRI 20	Hi-DRI 30	Hi-DRI 40	Hi-DRI 60	Hi-DRI 80	Hi-DRI 105
A	224mm	325mm	427mm	503mm	312mm	376mm	465mm	592mm	411mm
B	43.2mm	43.2mm	43.2mm	43.2mm	61mm	61mm	61mm	61mm	88.9mm
C	58.4	58.4	58.4	58.4	81.3mm	81.3mm	81.3mm	81.3mm	109.2mm
Connection	1/4" BSP	1/4" BSP	1/4" BSP	1/4" BSP	1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP	1/2" BSP
Weight kg	0.51	0.66	0.81	0.93	1.07	1.21	1.45	1.71	1.99



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