

Membrane dryers

HMD Series



HMD Series membrane dryers



NEW
No
oxygen
loss
GENERATION

Simple operation, excellent design and reliability – the benefits are clear!

Extremely flexible:

- Consistent performance in marginal spaces.

Various installation options:

- Easy to connect and install in existing compressed air lines
- Low weight – install directly in compressed air lines
- Operates in any orientation, horizontal or vertical, enabling easy integration into existing equipment
- No need for a power supply
- Cooling water is not required
- The dryers cannot freeze up, removing the need for trace heating (does not apply to filters)
- Selection of pre-filter packages available

Simply install and forget:

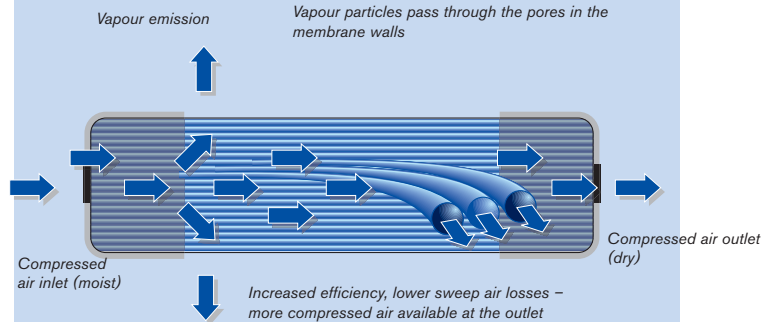
- Uncomplicated operation: no need to monitor and control
- No maintenance of moving parts
- No need to replace consumables (e.g. desiccants)
- Water escapes as vapour – no condensate to remove and treat

Scope of delivery:

- High efficiency oil removal filter HF
- One automatic condensate separator
- One differential pressure gauge

Higher flow rates:

The new design enables higher inlet and outlet flows



The dew point is also determined by the length of time in the drier and the extent of the membrane surface area.

The longer spent in the drier and the larger the surface area, the greater the reduction in the pressure dew point. The inlet temperature, pressure and inlet pressure dew point also play a role.

Membrane dryers are maintenance free!

Model	Capacity Inlets		Connection [R]	Weight [kg]	Diameter [mm]	Length [mm]
	[m ³ /min*1]	[m ³ /h*1]				
HMD 20-1	0,04	2,6	R 3/8"	0,6	53	312
HMD 20-2	0,17	10	R 3/8"	0,8	53	671
HMD 20-3	0,27	16	R 3/8"	2,2	99	389
HMD 20-4	0,58	35	R 1/2"	3,1	99	683
HMD 20-5	0,97	58	R 1/2"	4,9	99	1041
HMD 20-6	1,90	114	R 3/4"	6,0	125	1050

Models HMD and HMM: A filter with performance level HF is sufficient for normal requirements. Conditions: max. moisture load of the incoming air 1000ppm w/w, max. oil content at compressed air outlet: 0.01 ppm w/w.

For highly contaminated systems and areas with the highest level of requirements, we recommend a combination of filters PF and UF. Max. moisture load at compressed air inlet: 2000 ppm w/w, max. oil content at compressed air outlet: 0.001 ppm w/w

v*=m3/min /7bar DIN ISO 7183

HMD 20-1

Inlet temperature	Dew point at compressed air outlet					
	+10°C	+3°C	-10°C	-20°C	-30°C	-40°C
5°C Inlet				0,042	0,031	0,024
Outlet				0,036	0,025	0,018
20°C Inlet			0,041	0,032	0,025	0,020
Outlet			0,035	0,026	0,019	0,014
30°C Inlet		0,048	0,034	0,027	0,022	0,017
Outlet		0,042	0,028	0,021	0,016	0,011
40°C Inlet	0,047	0,040	0,030	0,024	0,019	0,016
Outlet	0,041	0,034	0,024	0,018	0,013	0,010
50°C Inlet	0,040	0,034	0,026	0,021	0,017	0,014
Outlet	0,034	0,028	0,020	0,015	0,011	0,008
66°C Inlet	0,032	0,028	0,022	0,018	0,015	0,012
Outlet	0,026	0,022	0,016	0,012	0,009	0,006

HMD 20-2

Inlet temperature	Dew point at compressed air outlet					
	+10°C	+3°C	-10°C	-20°C	-30°C	-40°C
5 °C Inlet				0,161	0,120	0,092
Outlet				0,137	0,097	0,069
20 °C Inlet			0,157	0,121	0,094	0,074
Outlet			0,134	0,097	0,071	0,051
30 °C Inlet		0,186	0,132	0,104	0,082	0,066
Outlet		0,163	0,108	0,080	0,059	0,042
40 °C Inlet	0,181	0,154	0,114	0,091	0,073	0,059
Outlet	0,158	0,130	0,090	0,068	0,050	0,035
50 °C Inlet	0,152	0,132	0,100	0,081	0,066	0,053
Outlet	0,129	0,108	0,077	0,058	0,042	0,030
66 °C Inlet	0,123	0,108	0,084	0,069	0,057	0,046
Outlet	0,099	0,085	0,061	0,046	0,033	0,023

HMD 20-3

Inlet temperature	Dew point at compressed air outlet					
	+10°C	+3°C	-10°C	-20°C	-30°C	-40°C
5 °C Inlet				0,256	0,201	0,162
Outlet				0,222	0,167	0,127
20 °C Inlet			0,252	0,202	0,165	0,135
Outlet			0,218	0,167	0,130	0,101
30 °C Inlet		0,291	0,217	0,178	0,147	0,122
Outlet		0,256	0,182	0,144	0,113	0,087
40 °C Inlet	0,284	0,247	0,192	0,160	0,134	0,111
Outlet	0,250	0,212	0,158	0,126	0,099	0,077
50 °C Inlet	0,245	0,217	0,173	0,146	0,122	0,102
Outlet	0,210	0,183	0,139	0,111	0,088	0,068
66 °C Inlet	0,204	0,184	0,150	0,128	0,108	0,091
Outlet	0,170	0,150	0,116	0,093	0,073	0,056

HMD 20-4

Inlet temperature	Dew point at compressed air outlet					
	+10°C	+3°C	-10°C	-20°C	-30°C	-40°C
5 °C Inlet				0,556	0,447	0,368
Outlet				0,484	0,375	0,296
20 °C Inlet			0,547	0,448	0,374	0,314
Outlet			0,475	0,376	0,303	0,242
30 °C Inlet		0,624	0,478	0,401	0,339	0,287
Outlet		0,552	0,406	0,329	0,268	0,215
40 °C Inlet	0,610	0,537	0,429	0,365	0,311	0,264
Outlet	0,539	0,465	0,357	0,293	0,239	0,193
50 °C Inlet	0,533	0,478	0,391	0,336	0,288	0,245
Outlet	0,461	0,407	0,319	0,264	0,216	0,174
66 °C Inlet	0,453	0,414	0,345	0,299	0,257	0,221
Outlet	0,382	0,342	0,273	0,227	0,186	0,149

HMD 20-5

Inlet temperature	Dew point at compressed air outlet					
	+10°C	+3°C	-10°C	-20°C	-30°C	-40°C
5 °C Inlet				0,922	0,735	0,601
Outlet				0,802	0,615	0,480
20 °C Inlet			0,907	0,737	0,611	0,509
Outlet			0,787	0,617	0,491	0,389
30 °C Inlet		1,039	0,789	0,657	0,552	0,463
Outlet		0,918	0,669	0,537	0,432	0,343
40 °C Inlet	1,016	0,889	0,705	0,596	0,504	0,425
Outlet	0,895	0,769	0,584	0,475	0,384	0,305
50 °C Inlet	0,882	0,790	0,640	0,546	0,465	0,394
Outlet	0,762	0,669	0,520	0,425	0,344	0,273
66 °C Inlet	0,746	0,679	0,562	0,483	0,414	0,352
Outlet	0,626	0,559	0,441	0,363	0,293	0,232

HMD 20-6

Inlet temperature	Dew point at compressed air outlet					
	+10°C	+3°C	-10°C	-20°C	-30°C	-40°C
5 °C Inlet				1,80	1,43	1,17
Outlet				1,56	1,20	0,93
20 °C Inlet			1,77	1,44	1,19	0,99
Outlet			1,53	1,20	0,96	0,76
30 °C Inlet		2,03	1,54	1,28	1,07	0,90
Outlet		1,79	1,30	1,04	0,84	0,67
40 °C Inlet	1,98	1,73	1,37	1,16	0,98	0,83
Outlet	1,75	1,50	1,14	0,92	0,75	0,59
50 °C Inlet	1,72	1,54	1,25	1,06	0,90	0,77
Outlet	1,48	1,30	1,01	0,83	0,67	0,53
66 °C Inlet	1,45	1,32	1,09	0,94	0,80	0,69
Outlet	1,22	1,09	0,86	0,70	0,57	0,45

Intelligent HANKISON solutions!

At HANKISON, we have been providing our customers with consistently clean and dry compressed air for seamless operation of their plants since 1948.

Today, working together with other market leaders in the compressed air preparation industry under the SPX brand name, HANKISON provides you with the highest quality compressed air systems available on the market.

We have earned our excellent reputation through the development and manufacture of products that meet the challenging expectations of our customers in terms of innovation, reliability, availability and an optimum price/performance ratio. Customer satisfaction is the focus of all our endeavours.

Our service and advice, innovations, competence, efficiency and the technical dependability of our solutions all guarantee both your and our success.

Place your trust in our global experience and reap the benefits.



With kind regards



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