

Desiccant Dryers

HMW SERIES

BENEFITS AND FEATURES

- Internal-heat regeneration system
- Economical regeneration process
- Long life of the heater elements and desiccant
- Energy saving with dew point control (optional)
- Mechanically stable, low-dusting desiccant

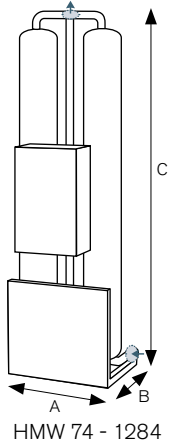


Technical Data		74 - 308	385 - 1284
Inlet / Outlet		On rear bottom / top	
Desiccant		Activated Alumina	
IP class		IP 43 (control box: IP 54)	
Compressed air connection	Threaded	●	○
	Welded with DIN flanges	○	●
Pressure dew point control		○	
Safety relief valves		○	
Control: PLC		●	
Load-dependent control		○	
Noise level		< 70 dB(A) LEQ	
Lockable main switch		●	
Different voltage		○	
Hankison® pre- and after-filter		●	

General Data	
Medium	Compressed air
Drying system	Twin-tower adsorption
Regeneration system	Internal-heat regeneration system, thermostatic control
Housing material	PED 97/23/EC.Module H
Colour	RAL 5015 (blue), special finishing optional
Location	Indoors
Mounting	Freestanding: anchor holes provided

Model	Flow Rate* m³/h	Connec- tion	Dimensions			Weight kg	El. connection		Power Consumption (kW)		Pre-filter	After-filter
			A	B	C		Operation	Control	average	installed		
HMW 74	245	1"	670	450	2,170	300			1.7	3.6	H-HF 90	H-DF 90
HMW 120	400	1 1/2"	855	500	2,280	450			2.7	5.4	H-HF 135	H-DF 135
HMW 196	653		905	550	2,620	670			3.6	7.2	H-HF 216	H-DF 216
HMW 236	785	2"	1,035	600	2,750	800			4.5	9.0	H-HF 285	H-DF 285
HMW 308	1,026		1,085	650		950			5.4	10.8	H-HF 405	H-DF 405
HMW 385	1,282	DN 80	1,475	1,060	3,050	1,300	400/3/50	230/1/50	7.2	14.4	H-HF 540	H-DF 540
HMW 575	1,916		1,600	1,110		1,900			10.8	21.6	HF5-56	HF56-HTA
HMW 675	2,250	DN 100		1,160		2,110			12.6	25.2	HF5-60	HF60-HTA
HMW 801	2,670		1,750	1,185	2,400	14.4	28.8					
HMW 1077	3,590		1,235	3,175	3,100	18.9	37.8					
HMW 1284	4,280		1,790	1,260	3,400	22.5	45.0	HF5-64	HF64-HTA			

* ISO 7183, based on the intake volume of the compressor at +20°C and 1 bar (a), operating pressure 7 bar (g), inlet temperature +35°C, ambient or cooling water temperature +25°C, pressure dew point -40°C
 Technical data and specifications are subject to change without prior notice



Design Data*	Min.	Nom.	Max.
Operating pressure	4 bar (g)	7 bar (g)	10 bar (g)
Inlet temperature	+5 °C	+35 °C	+50 °C
Pressure dew point		-40 °C	
Ambient temperature	+5 °C	-	+50 °C
Relative humidity inlet air		100%	
Regeneration consumption (at full load 7 bar(g))		2.2%	

Max. operating pressure of 16 bar (g) available on request.

* The following correction factors need to be used to select the correct unit for other operating conditions.

Correction factors for different operating pressures in bar (g) (F ₁)													
bar (g)	4	5	6	7	8	9	10	11	12	13	14	15	16
HMW 74 - 1284	0.63	0.75	0.88	1.00	1.12	1.15	1.37	For a selection consult your distributor					

Correction factors for different inlet temperatures in °C (F ₂)							
°C	+5	+30	+35	+40	+45	+50	
HMW 74 - 1284	1.00	1.00	1.00	0.77	0.59	0.46	

Selection example		Calculation	
Compressor capacity (V ₁)	900 m³/h	$V_2 = \frac{V_1}{F_1 \cdot F_2} = \frac{900}{1.37 \cdot 0.60} = 1,094 \text{ m}^3/\text{h}$	Selection: HMW 385
Operating pressure (F ₁)	10 bar (g)		
Inlet temperature (F ₂)	+40 °C		
V ₂	Required dryer capacity		



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