FLAK Industritrykluft Filterteknik SALG - SERVICE

Desiccant Dryers

HMW SERIES

FEATURES AND BENEFITS

- Internal-heat regeneration system
- Economical regeneration process
- Minimal regeneration air usage
- Long life of the heater elements and desiccant
- Energy saving with dew point control (optional)
- Modern touch screen control inter-face option
- Mechanically stable, low-dusting desiccant
- 16 bar.g (Optional)

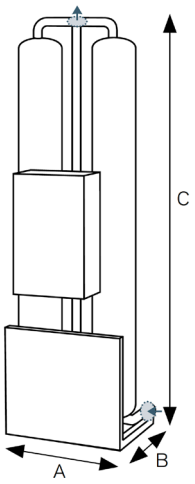
Technical Data	HMW 74 - 308	HMW 385 - 1284
Inlet / Outlet	Inlet bottom rear / Outlet top rear	
Desiccant	Activated Alumina	
IP class	(Control box: IP 54)	
Compressed air connection: Threaded	●	○
Welded with DIN flanges	○	●
Pressure dew point control	○	
Safety relief valves	○	
Control: PLC	●	
Energy management	○	
Noise level	< 71 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
Installation	Indoors
Mounting	Freestanding: anchor holes provided

● standard ○ On request – not applicable

Model	FlowRate*	Connection	Dimensions			Weight	Operation	Control	Power Consumption (kW)		Pre-filter	After-filter
			A	B	C							
	m^3/h			mm		kg	V/Ph/Hz		Average	Installed		
HMW 74	245	1"	670	450	2,170	300	400/3/50	24VDC	1.7	3.6	F08-B-HF	DF08-HTA
HMW 120	400	1 1/2"	855	500	2,280	450			2.7	5.4	F12-B-HF	DF12-HTA
HMW 196	653	1 1/2"	905	550	2,260	670			3.6	7.2	F12-B-HF	DF12-HTA
HMW 236	785	2'	1,035	600	2,750	800			4.5	9.0	HF5-52	HF6-52HTA
HMW 308	1,026	2'	1,085	650	2,750	950			5.4	10.8	HF5-56	HF6-56HTA
HMW 385	1,282	DN 80	1,475	1,060	3,050	1,300			7.2	14.4	HF5-56	HF6-56HTA
HMW 575	1,916	DN 80	1,600	1,110	3,050	1,900			10.8	21.6	HF5-56	HF6-56HTA
HMW 675	2,250	DN 80	1,600	1,160	3,050	2,110			12.6	25.2	HF5-60	HF6-60HTA
HMW 801	2,670	DN100	1,750	1,185	3,175	2,400			14.4	28.8	HF5-60	HF6-60HTA
HMW 1077	3,590	DN100	1,750	1,235	3,175	3,100			18.9	37.8	HF5-64	HF6-64HTA
HMW 1284	4,280	DN100	1,790	1,260	3,175	3,400			22.5	45.0	HF5-68	HF6-68HTA

* 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.



HMW 74 - 1284

Design Data*	Min.	Nominal	Max.
Operating pressure	5 bar (g)	7 bar (g)	10 bar (g) (16 bar.g optional)
Inlet temperature	+5°C	+35°C	+50°C
Pressure dew point		-40°C	
Ambient temperature	+5°C	–	+50°C
Relative humidity inlet air		100%	

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)	5	6	**7**	8	9	10	11	12	13	14	15	16
HMW 74 - 1284	0.75	0.88	**1.00**	1.13	1.25	1.38	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 m^3/h	$V_2 = \frac{V_1}{F_1 \cdot F_2} = \frac{900}{1.38 \cdot 0.77} = 847\ m^3/h$
Operating pressure (F_1)	10 bar (g)	
Inlet temperature (F_2)	+40 °C	
V_2	Required dryer capacity	Selection: HMW 308

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