Desiccant Dryers

MWE 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 interface
- Mechanically stable, low-dusting desiccant
- 16 bar.g (Optional)

Technical Data	MWE 74 - 308	MWE 385 - 1284
Inlet / Outlet	Inlet rear bottom / Outlet rear top	
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	○	
Deltech® pre- and after-filter	○	

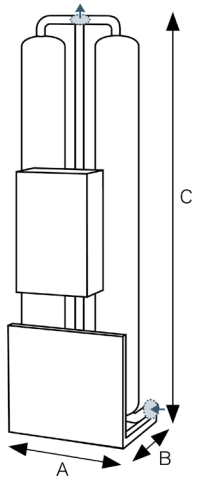
General Data	
Medium	Compressed air
Drying system	Twin-tower adsorption
Regeneration system	Internal-heat regeneration system, thermostatic control
Housing material	PED 97/23/EC. Module H
Colour	RAL 9001 (white), special finishing optional
Installation	Indoors
Mounting	Freestanding: anchor holes provided

● standard ○ On request – not applicable

Deltech®

Model	FlowRate*	Connection	Dimensions			Weight	Operation	Control	Power Consumption (kW)		Pre-filter	After-filter
			A	B	C							
	m³/h			mm		kg	V/Ph/Hz		Average	Installed		
MWE 74	245	1"	704	596	2,147	290			1.7	3.6	NG-08-HF	DF08-HTA
MWE 120	400	1 1/2"	873	652	2,230	435			2.7	5.4	NG-12-HF	DF12-HTA
MWE 196	653	1 1/2"	909	702	2,570	670			3.6	7.2	NG-12-HF	DF12-HTA
MWE 236	785	DN80	1,054	721	2,789	740			4.5	9.0	HF5-52	HF6-52HTA
MWE 308	1,026	DN80	1,089	767	2,760	950			5.4	10.8	HF5-56	HF6-56HTA
MWE 385	1,282	DN80	1,404	877	3,021	1,450	400/3/50	24VDC	7.2	14.4	HF5-56	HF6-56HTA
MWE 575	1,916	DN80	1,154	916	3,021	1,670			10.8	21.6	HF5-56	HF6-56HTA
MWE 675	2,250	DN100	1,554	1,021	3,031	1,900			12.6	25.2	HF5-60	HF6-60HTA
MWE 801	2,670	DN100	1,759	1,011	3,165	2,300			14.4	28.8	HF5-60	HF6-60HTA
MWE 1077	3,590	DN150	1,834	1,171	3,174	3,000			18.9	37.8	HF5-64	HF6-64HTA
MWE 1284	4,280	DN150	1,933	1,217	3,174	3,300			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.



MWE 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
MWE 74 - 1284	075	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
MWE 74 - 1284	1.00	1.00	**1.00**	0.77	0.59	0.46

Selection example	
Compressor capacity (V_1)	900 m³/h
Operating pressure (F_1)	10 bar (g)
Inlet temperature (F_2)	+40 °C
V_2	Required dryer capacity

Calculation

$$V_2 = \frac{V_1}{F_1 \cdot F_2} = \frac{900}{1.38 \cdot 0.77} = 847 \text{ m}^3/\text{h}$$

Selection: MWE 308

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