

Adsorption Dryers MWE



Your benefits with Deltech® MWE dryers

Operational reliability: high quality components

Energy saving: low pressure drop



Standard models of the Deltech® MWE desiccant compressed air dryers		74 - 308	385 - 1284
Medium	: Compressed air	•	•
Drying system	: Twin tower adsorption	•	•
Regeneration system	: Internal heat regenerated, with control thermostats	•	•
Vessel code	: CODAP 90-C-0.7, Service de Mines	•	•
	All European pressure vessel codings	○	○
	Safety relief valves	○	○
Piping	: Threaded	•	○
	: Welded with DIN flanges	○	•
Coating	: RAL 9001 (white)	•	•
	Special surface treatment	○	○
Inlet	: Bottom section on back side	•	•
Outlet	: Top section on back side	•	•
Desiccant	: Delsorb HQ-A4	•	•
Power supply	: main power 400V 50Hz 3 phases	•	•
	control voltage 230V 50Hz 1 phase	•	•
	main switch lockable	•	•
	Alternative electrical power supplies	•	•
Timer	: Cam switch	•	•
	Energy management systems	○	○
Noise level Standard silencers provided	: < 70 dB(A) LEQ	•	•
IP rating	: IP 43	•	•
	IP 54 for control box	○	○
Location	: Indoors	•	•
Mounting	: Floor standing; anchor holes provided	•	•
Filters	: Deltech® pre- and afterfilters mounted to the dryer	○	○
For optimum performance, Deltech® pre- and afterfilters should be used.			

• standard
○ optional
- not applicable

Design data	minimum	design	maximum	74 - 308	385 - 1284
Inlet pressure	4 bar(g)*	7 bar(g)*	10 bar(g)*	•	•
	10 bar(g)*	14 bar(g)*	16 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%		•	•
Purge air consumption % of nominal inlet capacity at 7 bar(g)		2.2%*		•	•

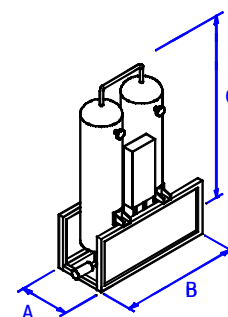
* Use the multipliers when the conditions are different from standard. Refer to the table on the other side of this page.

Flair also issues a computer program capable of making the selection for you.

Model	Capacity	Dimensions			Weight kg	Connection		Power consumption	
	m ³ /h *	mm A	mm B	mm C		"BSP	mm DIN flange	kW average	kW installed
MWE 74	245	450	760	2170	300	1	-	1.7	3.6
MWE 120	400	500	1000	2280	450	1 1/2	-	2.7	5.4
MWE 196	653	550	1050	2620	670	1 1/2	-	3.6	7.2
MWE 236	785	600	1200	2750	800	2	-	4.5	9.0
MWE 308	1026	650	1250	2750	950	2	-	5.4	10.8
MWE 385	1282	700	1400	3050	1300	-	80	7.2	14.4
MWE 575	1916	800	1550	3050	1900	-	80	10.8	21.6
MWE 675	2250	900	1650	3050	2110	-	80	12.6	25.2
MWE 801	2670	950	1850	3175	2400	-	100	14.4	28.8
MWE 1077	3590	1050	1950	3175	3100	-	100	18.9	37.8
MWE 1284	4280	1100	2000	3175	3400	-	100	22.5	45.0

* Nominal dryer capacity according to DIN ISO 7183, pressure dew point -40°C

The capacity of the dryer is based on the intake volume of the compressor at 20 °C, 1 bar(a)



The following data can be used to convert the inlet air conditions to the required dryer capacities.

Capacity correction for different inlet pressures in bar(g)

bar(g)	4	5	6	7	8	9	10	11	12	13	14	15	16
Multiplier capacity	IP	0.63	0.75	0.88	1.00	1.12	1.25	1.37	For selection, consult your distributor				

Capacity correction for different inlet temperatures in °C

°C	+5	+30	+35	+40	+45	+50	
Multiplier capacity	IT	1.00	1.00	1.00	0.60	0.38	0.25

Example

Air volume (V1) at dryer inlet : 900 m³/h
 Inlet pressure (IP) : 10 bar(g)
 Inlet temperature (IT) : +40°C
 V2 : Required dryer capacity, corrected for 35°C, 7 bar(g)

Calculation:

$$V2 = \frac{V1}{IP * IT} = \frac{900}{1.37 * 0.60} = 1095 \text{ m}^3/\text{h}$$

Dryer model MWE 385 is suitable.

- Techn cal details to change w thout notice -