

# Adsorption Dryers Euro Dry

## Your benefits with Deltech® Euro-dry dryers

Operational reliability: high quality components; pneumatic piston valves

Energy saving: low pressure drop, Energy Management System (optional)

Flexible and reliable due to proven technology

PED compliant



### Standard models of the Deltech® ED desiccant compressed air dryers

		ED 48-ED 288	ED 360-ED 1785
Medium	: Compressed air	●	●
Drying system	: Twin tower adsorption	●	●
Regeneration system	: Heatless	●	●
Vessel code	CE/Directive/97/23/CEE (PED)	●	–
	Safety relief valves	○	○
Piping	: Threaded	●	○
	: Welded with DIN flanges	○	●
Adjustable regeneration air quantity		●	–
Humidity indicator		●	–
Maintenance free non-return valve		●	–
Coating	: RAL 9001 (white)	●	●
	Special surface treatment	○	○
Inlet	: Bottom section on the back	●	●
Outlet	: Top section on the back	●	●
Desiccant	: Delsorb HQ-A4	●	●
Power supply	: 230V 50 Hz	●	●
	Alternative electrical power supplies	○	○
	Full pneumatic control	○	○
Timer	: Electronic with memory	●	●
	PLC controlled energy management system	○	○
Noise level	: < 78 dB(A)	●	●
Standard silencers provided		●	●
IP rating	: IP 65	●	●
Location	: Indoors	●	●
Mounting	: Floor standing; anchor holes provided	●	●
Filters	: Deltech® pre- and after filters mounted to the dryer	○	○
For optimum performance, Deltech® pre- and after filters should be used			

- standard
- optional
- not applicable

### Design data

	min.	design	max.	ED 48-ED 288	ED 360-ED 1785
Inlet pressure*	4 bar(g)	7 bar(g)	10 bar(g)	●	●
Inlet temperature*	+5°C	+35°C	+50°C	●	●
Pressure dewpoint*	-70°C	-40°C	-20°C	●	●
Ambient temperature	+5°C	-	+50°C	●	●
Relative humidity inlet air		100%		●	●
Purge air consumption % of nominal inlet capacity at 7 bar(g)		15%		●	●

Max. inlet pressure 16 bar(g)  
available as option

\* Use the correction factor when the conditions are different from standard. Refer to the graph on the other side of this page.

Model	Capacity		Dimensions			Weight kg	Connection		Power cons. kW
	m <sup>3</sup> /h	mm	mm	mm	"BSP		mm DIN		
	*	A	B	C	flanges				
ED 48	160	750	750	1955	190	1	-	0.06	
ED 81	270	750	1150	1970	310	1½	-	0.06	
ED 129	430	750	1150	1990	425	1½	-	0.06	
ED 183	610	750	1150	1990	585	1½	-	0.06	
ED 220	735	750	1150	1990	685	2	-	0.06	
ED 288	960	750	1150	2000	755	2	-	0.06	
ED 360	1200	1300	1500	1930	800	-	80	0.06	
ED 445	1490	1400	1500	1950	1000	-	80	0.06	
ED 540	1800	1450	1500	2070	1200	-	80	0.06	
ED 635	2120	1500	1500	2090	1360	-	80	0.06	
ED 750	2500	1700	1500	2190	1570	-	100	0.06	
ED 865	2880	1750	1700	2220	1810	-	100	0.06	
ED 1135	3790	1900	1950	2300	1955	-	100	0.06	
ED 1785	5950	2040	2400	2500	2420	-	150	0.06	

\* 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)

Above listed dryer capacities are based on standard operating conditions:

Pressure at dryer inlet : 7 bar g  
 Temperature at dryer inlet : 35°C  
 Pressure dewpoint at dryer outlet : -40°C

Deviations of these operating conditions might effect the performance of the dryer.

To calculate the dryer capacity under the "worst case" operating conditions (lowest inlet pressure, highest inlet temperature, lowest required pressure dewpoint) use the correction graph.

**Selection example:**

Pressure at dryer inlet : 4 bar g  
 Temperature at dryer inlet : 45°C  
 Pressure dewpoint at dryer outlet : -20°C

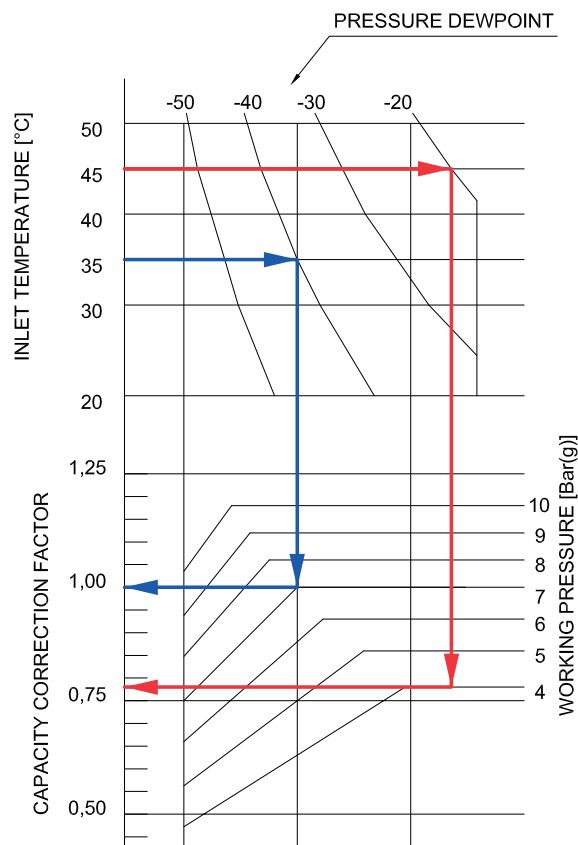
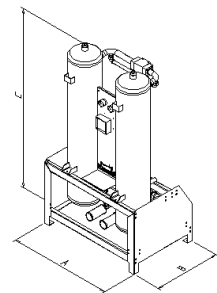
Following the red arrows from 45°C to -20°C then down to the 4 barg line, we find a correction factor of 0,78.

The dryer capacity will be reduced down to 78% of the max. dryer capacity.

The blue arrows show a correction factor 1 for standard operating conditions.

**How to select the right dryer:**

$$\frac{\text{Compressor capacity}}{0,78} = \text{required dryer capacity}$$



- Techn cal details to change w thout notice -