# Adsorption Dryers Euro Dry compact

## Your benefits with Deltech® Euro-dry compact dryers

**Easy maintenance: service and maintenance kits**

**Operational reliablity: high quality components**

**Energy saving: low pressure drop**


| Deltech® ED desiccant compressed air dryers | | 2 | 3 | 5 | 7 | 10 | 17 | 23 | 36 | 55 | 72 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Medium | : Compressed air | • | • | • | • | • | • | • | • | • | • |
| Dew point indication | : Optical colour change indicator | • | • | • | • | • | • | • | • | • | • |
| Drying system | : Twin tower adsorption | • | • | • | • | • | • | • | • | • | • |
| Regeneration system | : Heatless | • | • | • | • | • | • | • | • | • | • |
| Adsorption vessel material | : Aluminium | • | • | • | • | • | • | • | • | • | • |
| Housing material | : Carbon steel | • | • | • | • | • | • | • | • | • | • |
| | : Stainless steel | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Housing surface treatment | : Epoxy finish | • | • | • | • | • | • | • | • | • | • |
| Colour | : RAL 9001 (white) | • | • | • | • | • | • | • | • | • | • |
| Inlet | : Lower left or right | • | • | • | • | • | • | • | • | • | • |
| Outlet | : Upper left or right | • | • | • | • | • | • | • | • | • | • |
| Desiccant | : Delsorb HQ-A4 | • | • | • | • | • | • | • | • | • | • |
| Power supply | : 220V-240V 50Hz | • | • | • | • | • | • | • | • | • | • |
| | : 220V-240V 60Hz | • | • | • | • | • | • | • | • | • | • |
| | : 110V-120V 50Hz | • | • | • | • | • | • | • | • | • | • |
| | : 110V-120V 60Hz | • | • | • | • | • | • | • | • | • | • |
| | : Pneumatic (explosion proof) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Timer | : Electronic with memory | • | • | • | • | • | • | • | • | • | • |
| Noise level | : <78 dB(A) Leq | • | • | • | • | • | • | • | • | • | • |
| IP rating | : IP 23 | • | • | • | • | • | • | • | • | • | • |
| | : IP 54 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Mounting | : Wall mounting | • | • | • | • | • | • | • | • | - | - |
| | : Floor standing | - | - | - | - | - | - | - | - | • | • |
| Filters | : Deltech® pre- and afterfilter package | • | • | • | • | • | • | • | • | • | • |

Options may vary per country.

• standard
○ optional
- not applicable

| Design data | min | design | max | 2 | 3 | 5 | 7 | 10 | 17 | 23 | 36 | 55 | 72 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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* | -60°C* | -40°C | -20°C* | • | • | • | • | • | • | • | • | • | • |
| | -70°C* | -70°C | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Ambient temperature | +2°C | +25°C | +50°C | • | • | • | • | • | • | • | • | • | • |
| Relative humidity compressed air inlet | | 100% | | • | • | • | • | • | • | • | • | • | • |
| Purge air consumption | | 15% | | • | • | • | • | • | • | • | • | • | • |

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

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

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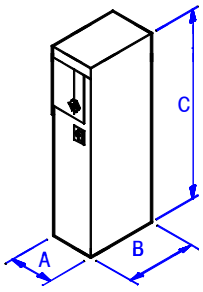
| Model | Capacity* | Dimensions | | | Wei_ht | Connection | Pressure drop | El. power |
|---|---|---|---|---|---|---|---|---|
| | | A | B | C | | | | |
| | m³/h | mm | mm | mm | kg | " BSP | bar | W |
| **ED 2** | 5.8 | 137 | 237 | 653 | 13 | 1/4 | 0.01 | 47 |
| **ED 3** | 9.7 | 137 | 237 | 653 | 13 | 1/4 | 0.02 | 47 |
| **ED 5** | 17.5 | 137 | 237 | 653 | 17 | 1/4 | 0.08 | 47 |
| **ED 7** | 22.4 | 137 | 237 | 941 | 19 | 1/4 | 0.11 | 47 |
| **ED 10** | 33.4 | 137 | 237 | 941 | 24 | 1/4 | 0.26 | 47 |
| **ED 17** | 56.1 | 198 | 368 | 824 | 37 | 3/4 | 0.07 | 47 |
| **ED 23** | 77.4 | 198 | 368 | 824 | 43 | 3/4 | 0.11 | 47 |
| **ED 36** | 120.9 | 198 | 368 | 1325 | 64 | 3/4 | 0.32 | 47 |
| **ED 55** | 183.1 | 477 | 415 | 1326 | 110 | 1 1/4 | 0.20 | 64 |
| **ED 72** | 241.4 | 477 | 415 | 1326 | 130 | 1 1/4 | 0.32 | 64 |

* 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 | 0.47 | 0.65 | 0.88 | 1.00 | 1.08 | 1.14 | 1.20 | 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 | 0.88 | 0.70 | 0.60 |

**Capacity correction for different outlet pressure dew points in °C**

| °C | | -10 | -20 | -30 | -40 | -50 | -60 | -70 |
|---|---|---|---|---|---|---|---|---|
| Multiplier capacity | ID | 1.12 | 1.10 | 1.05 | 1.00 | 0.89 | 0.72 | For selection, consult your distributor |

**Example**

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

**Calculation:**

$$\mathbf{V2} = \frac{V1}{IP * IT * ID} = \frac{40}{1.20 * 0.88 * 1.00} = \mathbf{37.9}\ m^3/h$$

Dryer model ED17 is suitable.

- Techn cal details to change w thout notice -

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