

MCD Dehumidifier



Product description

The MCD140 dehumidifier now includes many functions as standard that were often requested as options. The MCD (Munters Configurable Dehumidifier) is using the temperature independent sorption principle based on HPS (High Performance SilicaGel) rotor as the dehumidification method. It works efficiently in a wide temperature range - 20°C and 40°C. For this reason the dehumidifier is suitable for a lot of different applications.

Low energy consumption and reliability were important targets in the development work. The new electronic control panel using a touch display offers a number of different energy saving opportunities including Variable Frequency Drive (VFD).

The MCD140 is equipped with a number of alarm functions to ensure a total control of the dehumidification process. The frame casing is made in corrosion resistant AluZink as well as the outer painted panels.

The MCD140 can be supplied with 3 different reactivation alternatives – electrical, steam and gas. A service indicator, activated when there is a need for a prevented service, is a standard feature. To make installation easier the process fan has round connections as standard, which allows for different outlet positions depending on installation requirements.

The electrical equipment conforms to EN 60204 (IEC204) standards. The electrical system is designed for voltages up to 415 V and an ambient temperature of up to 50 °C. The MCD series of dehumidifiers conform to both harmonised European standards and technical specifications for CE marking.

Munters Rotor Technology

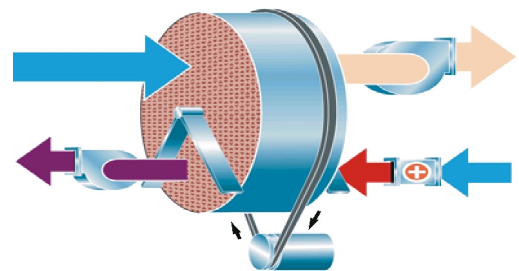
Munters desiccant rotors consist of corrugated composite material with highly effective moisture-adsorbing substances.

PRODUCT INFORMATION

MCD140

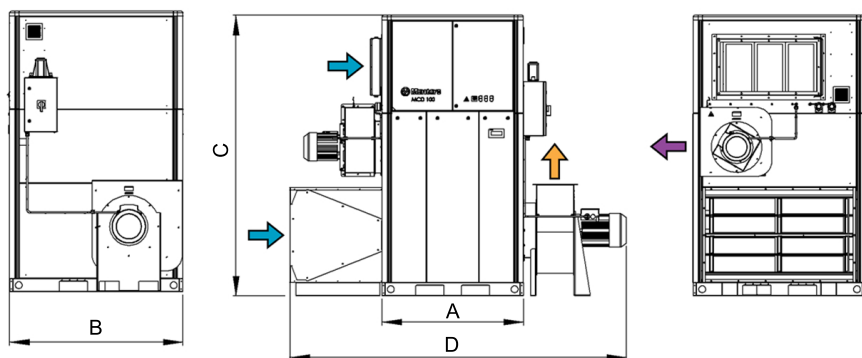
Features

- Efficient dehumidification between - 20°C and 40°C
- Electronic control panel – optimised running saves energy
- Control system with many possibilities
- Service indicator as standard



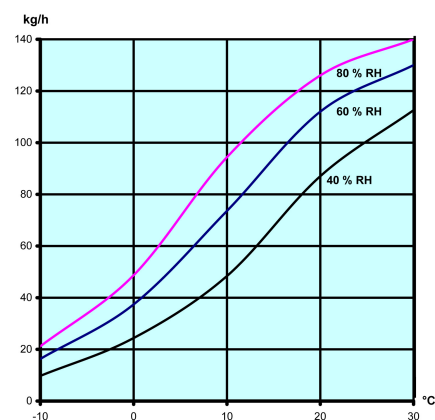
Model MCD140

Diagram measurements are for reference only.



Dehumidification Capacity

Approximate capacity in kg/h at different inlet process air relative humidity % RH



Width (A/D)	Depth (B)	Height (C)	Dry air	Wet air	Weight
1300/3090 mm	1590 mm	2575 mm	420x830 mm	665x304 mm	1142 kg

Technical Specification

Process air		Operating temperature (°C)	-20°C/40°C
Rated airflow (m³/h)	14000	Air filter standard	G4
Available static pressure (Pa)	300	IEC protective class (unit)	IP33
		IEC protective class (electrical panel)	IP33

Reactivation air	
Rated airflow (m³/h)	4500
Available static pressure (Pa)	300

Total power, voltage and current (amps/phase)	
Total power (kW) Electrical	167 (50Hz)
Total power (kW) Steam/Gas	17 (50Hz)
Gas consumption (m³/h)	14,8
Natural gas pressure (mbar)	18-49
Max sulphur content (ppm) HPS Rotor	30
380V 3-50 Hz (A) Electrical	261
380V 3-50 Hz (A) Steam/Gas	33
400V 3-50 Hz (A) Electrical	248
400V 3-50 Hz (A) Steam/Gas	32
415V 3-50 Hz (A) Electrical	239
415V 3-50 Hz (A) Steam/Gas	31
Max steam working pressure (bar)	7
Steam consumption 3 bar (g/s)	70
Steam consumption 5 bar (g/s)	72

Miscellaneous data

Options

- G4+F7 filterbox, panel filter
- F7 filterbox, panel filter
- Process fan with frequency control
- Sensors (RH, absolute humidity and low dew point)