

MCS Series

Desiccant Dehumidifier



Product Description

The MCS300 desiccant dehumidifier is designed to efficiently dehumidify air in open system applications. The compact construction allows extended periods of operation with a minimum of maintenance. The design facilitates easy transport by one person to and within the spaces to be dehumidified. As standard an advanced control panel for easy and user friendly control of different functions is fitted. An energy consumption monitor that can be reset makes it possible to measure the consumption (kWh) during a specific period. Its rugged formed metal frame and access panels are produced from stainless steel. The electrical control system conforms to EN 60204 (IEC204) standards and the electrical components are assembled behind the control panel. MCS300 dehumidifiers conform to both harmonised European Standards and to CE marking specifications.

Munters Rotor Technology

The desiccant rotor is manufactured from a corrugated composite material that is highly effective at attracting and holding water vapour. Every Munters dehumidifier applies a unique rotor technology. Airflows, air conditions, rotor sections, and rotor rotation speeds are optimised for specific applications. An innovative control system maximises the unit's energy efficiency. A characteristic of the MCS300 rotor technology is an efficient air distribution chamber, which divides the sectors and balances the dehumidification and reactivation airflows.

PRODUCT INFORMATION

MCS300

Features

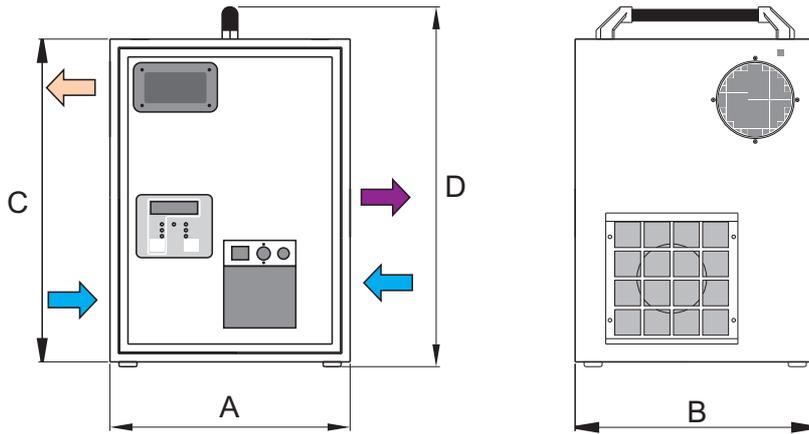
- Requires minimal floor area.
- Advanced user friendly control panel and display.
- Easy monitoring of energy consumption.
- Built in safety function - fault signals for temperature control and tripped thermostat.
- Simplified maintenance - no need to open unit.
- Humidistat plug with low voltage.



Model MCS300

Diagram measurements are for reference only.

Scaled and dimensioned AutoCAD drawings are available in Munters' DryCap program.



| Width (A) | Depth (B) | Height (C/D) | Dry air | Wet air | Weight |
|-----------|-----------|--------------|---------|---------|--------|
| 400 mm | 400 mm | 550/605 mm | 125 mm | 80 mm | 25 kg |

Technical Specification

Process air

| | |
|-----------------------------------|-----|
| Rated airflow (m ³ /h) | 300 |
| Available static pressure (Pa) | 200 |

Reactivation air

| | |
|-----------------------------------|-----|
| Rated airflow (m ³ /h) | 60 |
| Available static pressure (Pa) | 200 |

Total power, voltage and current (amps/phase)

| | |
|--------------------|------|
| Total power(kW) | 2,1 |
| 115V 1-50/60Hz (A) | 14,5 |
| 230V 1-50Hz (A) | 9,1 |

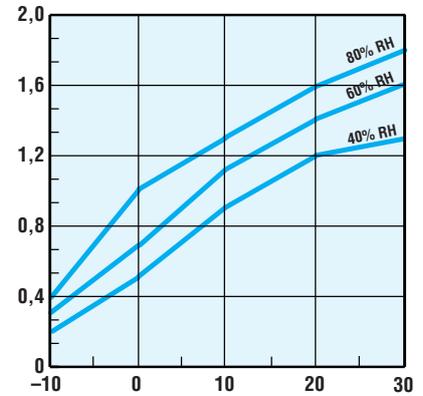
Miscellaneous data

| | |
|-----------------------------------------|---------|
| Operating temperature (°C) | -20/+40 |
| Max noise level unducted (dBA) | 60 |
| Air filter standard | G3 |
| IEC protective class (unit) | IP44 |
| IEC protective class (electrical panel) | IP54 |

Dehumidification capacity

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

Dehumidification capacity, kg/h



Process Air Temperature, °C

Options

- Electromechanical humidistat
- Air cooled condenser
- Silencer (air inlet)
- Humidistat connection Kit

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