

MCS300

Desiccant Dehumidifier

Complete Dehumidification Package



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.

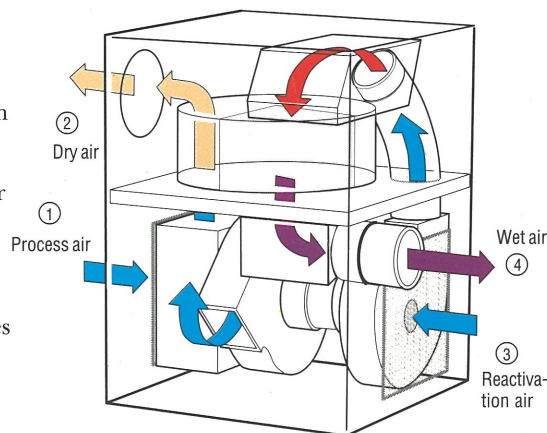
The electrical control system conforms to EN 60204 (IEC204) standards and the electrical components are assembled behind the control panel. MCS300 dehumidifiers conform to both harmonised European Standards and to CE marking specifications.

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.



MCS300

Efficiency and Reliability

- Desiccant dehumidification – high efficiency, even below 0 °C
- Advanced rotor technology – high capacity with economic operating costs
- Efficiently designed electrical system – enhanced reliability.

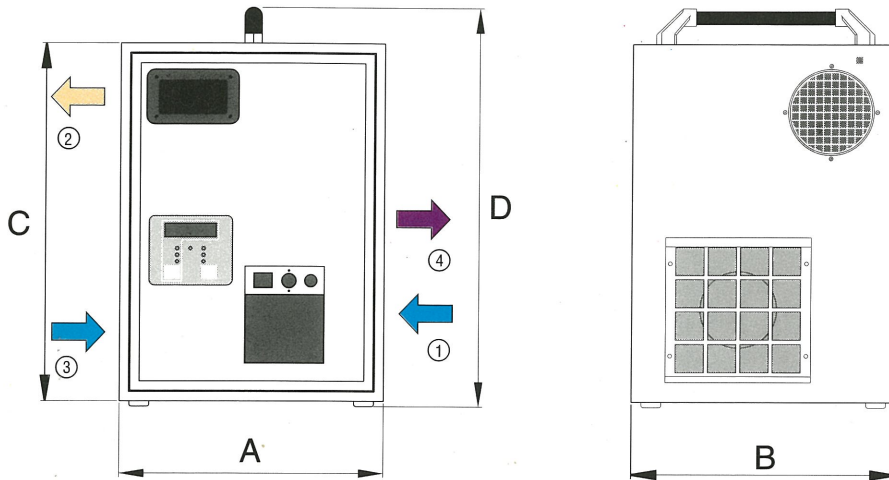
Installation and Operation

- Duct connections conform to ISO 7807 standards – simplifies air duct installation
- The dehumidifier can be moved by one person – top handle facilitates transport
- Unit requires minimal floor area – allows installation in confined spaces
- Humidistat socket with low voltage – easy installation without a qualified electrician
- Advanced control panel and display – user friendly control of functions and fault signals
- Auto operating modes – optional humidistat control of entire unit or reactivation heater only
- Energy consumption can be monitored during a specific period – facilitate cost reporting
- Fault tracing actions can be carried out from the control panel – fast inspection and service
- Built in safety function – fault signals for temperature control and tripped thermostat
- Quick display of reactivation temperature – easy set up of correct airflows
- Built in re-start delay in auto mode – stabilise humidistat function and improve control
- Replaceable EU3 filter – enhances air quality
- Simplified maintenance – no need to open the unit.

Model MCS300

Diagram measurements are for reference only.

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

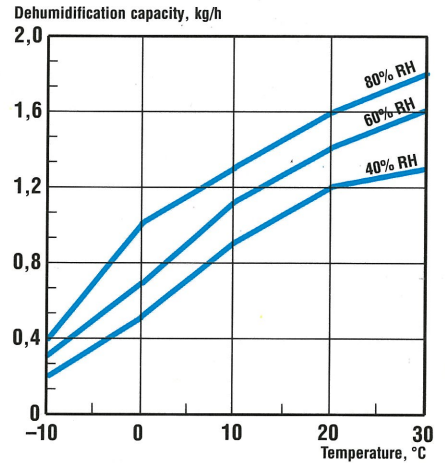


Width (A)	Depth (B)	Height (C/D)	Dry air ②	Wet air ④	Weight
400 mm	400 mm	550/605 mm	125 mm	80 mm	25 kg

Dehumidification capacity

Approximate capacity in kg/h. For more detailed information, please contact your nearest Munters location or refer to Munters' DryCap program.

- A. Process air temperature, °C
- B. Process air relative humidity, % RH
- C. Dehumidification capacity, kg/h (moisture removal kg/hour)



Technical Specifications

Process air¹

Rated airflow (m³/s) _____ 0,083
 Rated airflow (m³/h) _____ 300
 Available static pressure (Pa) _____ 85
 Fan motor power (kW) _____ 0,11

Reactivation air¹

Rated airflow (m³/s) _____ 0,016
 Rated airflow (m³/h) _____ 60
 Available static pressure (Pa) _____ 200
 Fan motor power (kW)² _____ -

Total power, voltage and current (amps/phase)

Total power (kW) _____ 2,1
 230V 1~50Hz (A) _____ 9,0
 240V 1~50Hz (A) _____ 9,0

Reactivation air heater

Heater power (kW) _____ 1,95
 Temperature increase across heater (°C) _____ 95

Miscellaneous data

Operating temperature (°C) __ -20/+40
 Drive motor power (W) _____ 2
 Max noise level unducted (dBA) ____ 70
 Air filter, standard _____ EU3
 IEC protective class (unit) _____ IP44
 IEC protective class (electrical panel) _____ IP54
 Fan motor winding insulation grade _____ Class F
 Drive motor winding insulation grade _____ Class E
 High temperature cut-out (°C) __ 160±5

¹ Stated performance based on 20 °C and air density of 1,2 kg/m³

² Common motor for process and reactivation fans

Options

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



The Humidity Expert

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