

# MH Series Desiccant Dehumidifier

## Complete Dehumidification Package



### Product Description

The MH270 desiccant dehumidifier is designed to efficiently dehumidify air. It is designed for extended periods of operation and has a common fan for both process and reactivation airflows (i.e. a three hole unit). It contains a distribution chamber with isolated sections that provide a precise balance for dehumidification, purge, reactivation, and heat recovery airflows. It is available with either a standard version or an advanced version

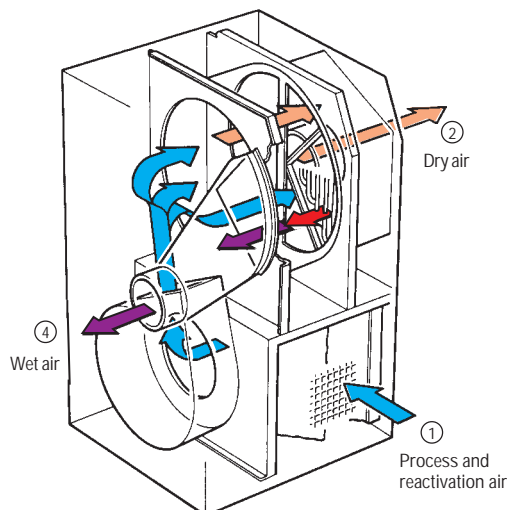
control panel. Its rugged formed metal frame and access panels are produced from corrosion resistant ALUZINK®.

The electrical control system conforms to EN 60204 (IEC204) standards and the electrical components are assembled behind the control panel. MH Series 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 units energy efficiency.

A characteristic of the MH Series rotor technology is two extra rotor sectors which provide high capacity, while simultaneously recovering heat, thereby effectively reducing the electrical power requirement.



# MH270

#### 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

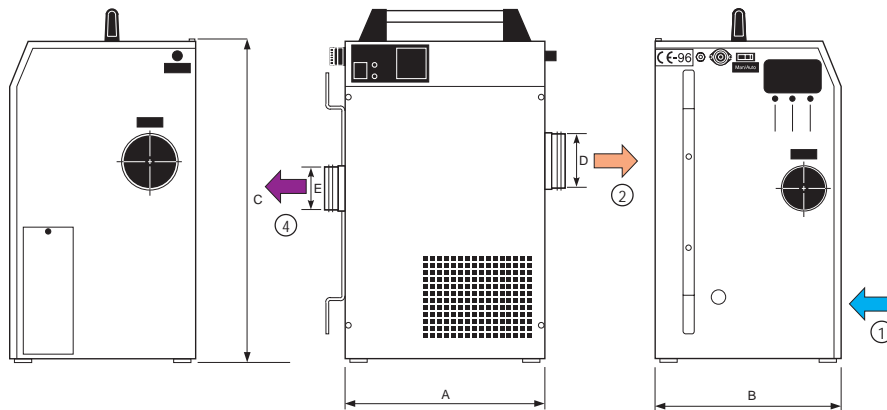
- Advanced version – monitors system operation status and remote alarm
- Humidistat plug with low voltage – easy installation without a qualified electrician
- Humidistat control – optional control of entire unit or reactivation heater only
- Standard version<sup>1</sup> – on/off switch and reactivation heater indicator
- Easily removed front panel – fast inspection and service
- Replaceable EU3 filter – enhances air quality
- Airflow test points – reliable adjustment
- Unit requires minimal floor area – allows installation in confined spaces
- Duct connections conform to ISO 7807 standards – simplifies duct installation
- Simple rotor suspension – easy removal for inspection and maintenance

<sup>1</sup> Standard version not available with humidistat socket

# Model MH270

Diagram measurements are for reference only.

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



Width (A)	Depth (B)	Height (C)	Diam. (D)	Diam. (E)	Weight
355 mm	335 mm	565 mm	100 mm	80 mm	22 kg

## Technical Specifications

### Process air<sup>1</sup>

Rated airflow (m <sup>3</sup> /h)	270
Reduced airflow (m <sup>3</sup> /s)	0,051
Reduced airflow (m <sup>3</sup> /h)	185
Available static pressure (Pa)	190
Fan motor power (kW)	0,186

### Reactivation air<sup>1</sup>

Reduced airflow (m <sup>3</sup> /s)	0,022
Reduced airflow (m <sup>3</sup> /h)	80
Available static pressure (Pa)	175
Fan motor power (kW) <sup>2</sup>	-

### Total power, voltage and current (amps/phase)

Total power (kW)	1,96
230V 1~50Hz (A)	8,5
240V 1~50Hz (A)	8,5

### Reactivation air heater

Heater power (kW)	1,8
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Temperature increase across heater (°C) \_\_\_\_\_ 85

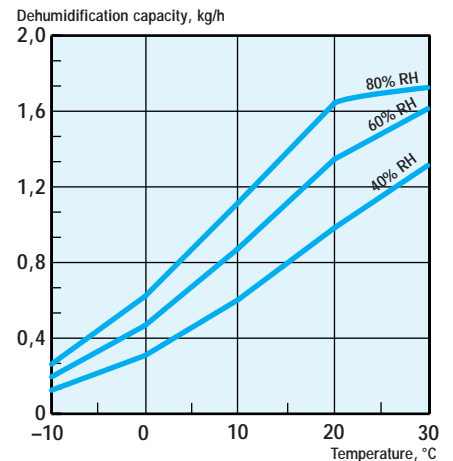
### Miscellaneous data

Operating temperature (°C)	-20/+40
Drive motor power (W)	12
Max noise level unducted (dBA)	67
Air filter, standard	EU3
IEC protective class (unit)	IP44
IEC protective class (electrical panel)	IP54
Fan motor winding insulation grade	Class B
Drive motor winding insulation grade	Class B
High temperature cut-out (°C)	160±5
Advanced version control panel:	
Amperage rating, remote on relay	2A, 250VAC (max)

## Dehumidification capacity

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

1. Process air temperature, °C
2. Process air relative humidity, % RH
3. Dehumidification capacity, kg/h (moisture removal kg/hour)



## Options

- Electromechanical humidistat
- Stainless steel sheet metal casing

<sup>1</sup> Stated performance based on 20°C and air density of 1,2kg/m<sup>3</sup>  
<sup>2</sup> Common motor for process and reactivation fans



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