

MX Series

Desiccant Dehumidifier



Product Description

The MX5000 desiccant dehumidifier is designed to efficiently dehumidify in low moisture applications. Its airtight construction delivers accurate conditions and optional features provide versatility to adapt the system for specific applications. Its rugged formed metal frame and access panels are produced from corrosion resistant Aluzink®. Standard equipment includes either a base control package or an optional microprocessor-based controller. The electrical control system conforms to EN 60204 (IEC204) standards. The electrical components are mounted on busbars and are constructed of halogen-free plastic. The electrical system is designed for up to 690V and 60° C.

MX 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 MX Series rotor technology is the precision seals which divide the air distribution chamber. These provide a precise airflow balance for dehumidification and reactivation while allowing for alternative fan placement and rotor sectioning. Additional sectors for low dewpoints and heat recovery are optional.

PRODUCT INFORMATION

MX5000

Features

- Dehumidifies efficient down to -20 ° C.
- High capacity with very low dewpoints.
- Reactivation heater choice
 - electrical, steam or gas.
- Microprocessor based control or base control choice.
- Compact design - requires minimal floor area.



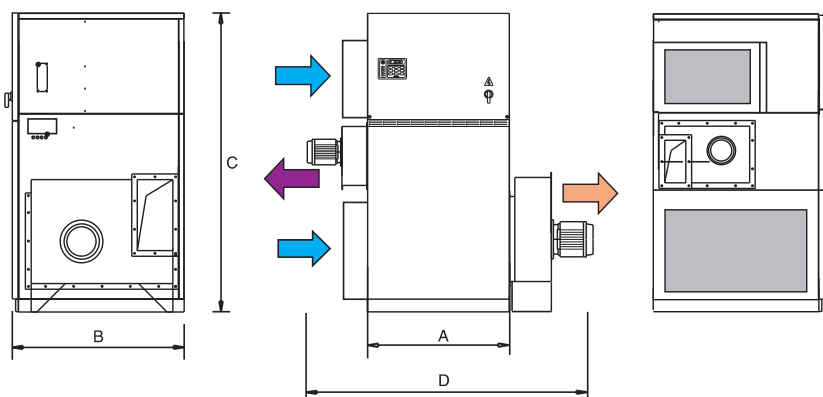
Munters

The Humidity Expert

Model MX5000

Diagram measurements are for reference only.

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



Width (A/D)	Depth (B)	Height (C)	Dry air	Wet air	Weight
1000/2048 mm	1213 mm	2172 mm	250x500	150x300	724 kg

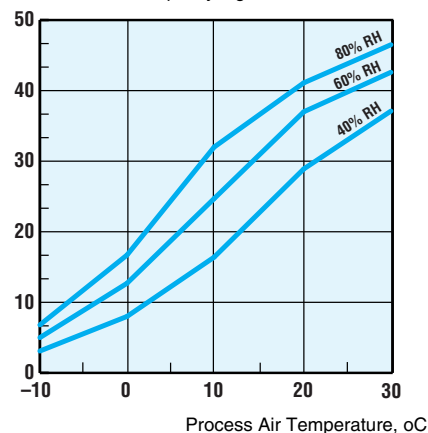
Technical Specification

Process air		Gas consumption (m³/h)	5,40
Rated airflow (m³/h)	5000	Natural gas pressure (mbar)	18-30
Available static pressure (Pa)	300	Max sulphur content (ppm) HPS Rotor	30
Reactivation air		Miscellaneous data	
Rated airflow (m³/h)	1660	Operating temperature (°C)	-20/+40
Available static pressure (Pa)	300	Max noise level unducted (dBA)	90
Total power, voltage and current (amps/phase)		Air filter standard	G3
Total power (kW) Electrical	59,58	IEC protective class (unit)	IP44
Total power (kW) Steam/Gas	6,48	IEC protective class (electrical panel)	IP54
200V 3-50/60Hz (A) El.	178,0	MX (B) Electrical equipment	,
200V 3-50/60Hz (A) St/Gas	24,7	Terminal connection, remote control	Standard
220V 3-50/60Hz (A) El.	163,0	Terminal connection	
220V 3-50/60Hz (A) St/Gas	23,5	general fault alarm	Standard
230V 3-50/60Hz (A) El.	156,0		
230V 3-50/60Hz (A) St/Gas	22,8		
380V 3-50/60Hz (A) El.	94,2		
380V 3-50/60Hz (A) St/Gas	13,5		
400V 3-50 Hz (A) El.	89,7		
400V 3-50 Hz (A) St/Gas	13,2		
415V 3-50 Hz (A) El.	86,8		
415V 3-50 Hz (A) St/Gas	13,0		
440V 3-50 Hz (A) El.	82,6		
440V 3-50 Hz (A) St/Gas	13,0		
500V 3-50 Hz (A) El.	71,6		
500V 3-50 Hz (A) St/Gas	10,4		
Steam consumption (g/s)	25,18		
Max steam working pressure (bar)	7		

Dehumidification Capacity

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

Dehumidification capacity, kg/h



Options

- Blocked filter alarm
- Rotor stopped alarm
- Remote control with separate control relay
- Humidity control system with alarm and display
Refer to the RH98 product data sheet
- Insulated process air inlet (when precooling)
- Pushing process air fan
- High capacity EU7 filter (process and reactivation air inlets)
- By-pass channel with damper and actuator
- Additional rotor section for low dewpoints and/or heat recovery
- Reversible assembly for optional left or right hand process air and reactivation air connection
- Stainless steel sheet metal casing