MXT Series
Desiccant Dehumidifier

Features

- Dehumidifies efficient down to -20°C.

- High air flow capacity and low energy consumption.

- Reactivation heater choice - electrical, steam or gas.

- Microprocessor based control or base control choice.

- Compact design - requires minimal floor area.

Product Description

The MXT5000 desiccant dehumidifier is designed to effectively dehumidify high airflow applications using minimal energy. 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 60º C.
MXT 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.

Munters
The Humidity Expert

Model MXT5000

Diagram measurements are for reference only.

Scaled and dimensioned AutoCAD drawings are available in Munters DryCap program.
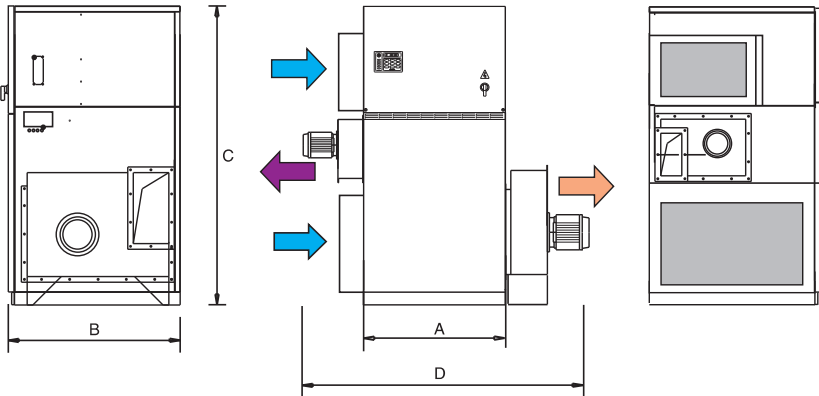
Width (A/D)	Depth (B)	Height (C)	Dry air	Wet air	Weight
1000/2048 mm	1213 mm	2172 mm	250x500	200x300	724 kg

Technical Specification

Process air

Rated airflow (m³/h)	5000
Available static pressure (Pa)	300

Reactivation air

Rated airflow (m³/h)	1220
Available static pressure (Pa)	300

Total power,
voltage and current (amps/phase)

Total power (kW) Electrical	43,58
Total power (kW) Steam/Gas	5,78
200V 3-50/60Hz (A) El.	131,7
200V 3-50/60Hz (A) St/Gas	22,5
220V 3-50/60Hz (A) El.	120,7
220V 3-50/60Hz (A) St/Gas	21,4
230V 3-50/60Hz (A) El.	115,5
230V 3-50/60Hz (A) St/Gas	20,7
380V 3-50/60Hz (A) El.	69,6
380V 3-50/60Hz (A) St/Gas	12,3
400V 3-50 Hz (A) El.	66,6
400V 3-50 Hz (A) St/Gas	12,0
415V 3-50 Hz (A) El.	64,3
415V 3-50 Hz (A) St/Gas	11,8
440V 3-50 Hz (A) El.	61,5
440V 3-50 Hz (A) St/Gas	12,0
500V 3-50 Hz (A) El.	53,0
500V 3-50 Hz (A) St/Gas	9,5
Steam consumption (g/s)	17,92
Max steam working pressure (bar)	7
Gas consumption (m³/h)	3,84
Natural gas pressure (mbar)	18-30
Max sulphur content (ppm) HPS Rotor	30

Miscellaneous data

Operating temperature (ºC)	-20/+40
Max noise level unducted (dBA)	87
Air filter standard	G3
IEC protective class (unit)	IP44
IEC protective class (electrical panel)	IP54
MXT (B) Electrical equipment	,
Terminal connection, remote control	Standard
Terminal connection	
general fault alarm	Standard

Dehumidification Capacity

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

Dehumidification capacity, kg/h

Process Air Temperature, oC
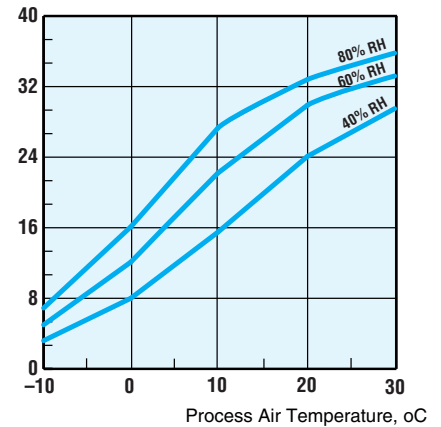
Options

- 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
- High capacity EU7 filter (process and reactivation air inlets)
- By-pass channel with damper and actuator
- Reversible assembly for optional left or right hand process air and reactivation air connection
- Stainless steel sheet metal casing