Product sheet

Munters MX3

Desiccant standalone dehumidifier

The MX3 is designed to deliver precise humidity control for high demanding industries, ensuring optimal air quality and operational efficiency. It can be installed as a standalone powerhouse – or as the centerpiece of a highly customized solution, the MX3 PLUS.

The MX3 ensures superior dehumidification capacity while minimizing energy consumption. Improved energy efficiency by 15–20% when compared with previous models can help the customer lower operational costs, cut Scope 2 emissions, align with emerging regulations, and advance their climate and sustainability goals, without compromising performance.

Constructed with durability in mind, the MX3 is built to last and easy to service. It is housed in an anti-corrosion Munters Protect casing, ensuring longevity even in the harshest conditions. Designed for ease of maintenance, these dehumidifiers feature improved filter access, rotor stop alarms, and external service indicators, allowing for quick diagnostics and minimal downtime. Additionally, multiple reactivation options – including electrical, steam, and gas – offer flexibility for different operational setups.

At the heart of the MX3 is the powerful AirC800 controller, which provides intelligent, modulating humidity control to ensure optimal performance in any setting. Integrated communication options, including Modbus, BACnet, and LON, allow seamless connection with modern building management systems.

With connectivity capabilities, the MX3 ensures that your dehumidification system remains future-ready, scalable, and easy to integrate into existing industrial and commercial infrastructures.

Features
→ 15-20% more energy efficient than previous model
→ Efficient dehumidification improvement up to 15%
→ Up to 15% reduction in CO_2 emissions
→ EC fan technology with reduced noise
→ Pressure switch for enhanced safety
→ Improved filter box
→ Communication and external control options
→ Remote monitoring and control
→ 2D drawings in DXF and SVG formats

Munters HPS rotor

Munters MX3 is built around the Munters HPS rotor, wich makes it perfect for most applications. The High Performance Silica rotor is our versatile and trusted core innovation, where silica gel is the adsorbent, offering ideal drying performance in a wide range of applications.

→ Certified to have bactericidal effect to contaminants and does not emit particles to the processed air.
→ Even when exposed to air at 100% RH the silica gel desiccant is not "washed out".
→ Resistant to acids, sulphur products and most chemicals.

Munters Protect

Munters Protect is the best-in-class anti-corrosion protection on the European market. This special coating has self-healing properties eliminating the microscopic weak points coming from cuts, bend and hole punches and gives substantially longer protection to the metal than conventional galvanization. Benefits are a longer product life cycle, less maintenance, reduced total cost of ownership and less environmental impact.

Reduced noise

Munters understands the importance of maintaining lower noise yet powerful operation, especially in public and sensitive environments.

That's why the MX3 features advanced EC fan technology, which not only enhances efficiency but also significantly reduces noise levels, with the inclusion of plenum fans in select models to further ensures sound attenuated operation.

The MX3 range

The MX3 includes multiple models, designed and equipped to meet airflow and capacity needs.

Options
→ Electric, gas or steam heaters
→ Pre-react heaters - heat water or steam
→ Coarse 65% (G4), ePM10 50% (M5), ePM1 60% (F7)
→ LDP application (MX3 40 and MX3 60 models)
→ Bypass
→ Dewpoint sensor and external controls
→ Communication via Modbus, BACnet or Lon
→ Insulated process air inlet
→ Insulated filter boxes (Process & Reactivation)
→ Duct connection kit
→ Mirror handed
→ Plenum fan
→ Stainless steel casing
→ AirC Connect

The MX3 uses BTL Certified BACnet communication and conforms to CE marking specifications, RoHS & REACH and to the below EU standards:

→ EN 60204-1:2018
→ EN 61000-6-2:2019
→ EN IEC 61000-6-3:2021

The advanced rotor technology and innovative four sector rotor with Energy Recovery PowerPurge (ERPP) as a standard option, ensures that every unit extracts maximum moisture with minimal energy input.
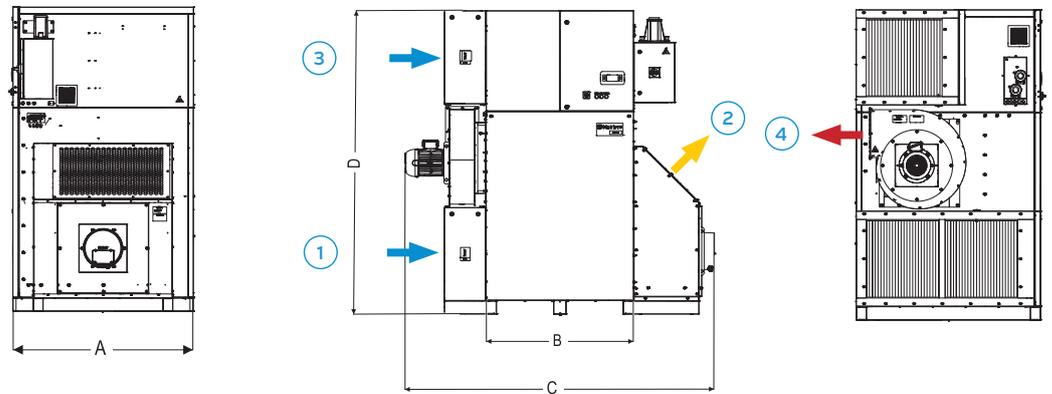
Whether operating in demanding industrial environments or controlled storage conditions, the MX3 guarantees efficient, reliable performance, while reducing your energy and total operational costs.

Wet air · Hot air · Reactivation air · Process air · Drive motor · Dry air
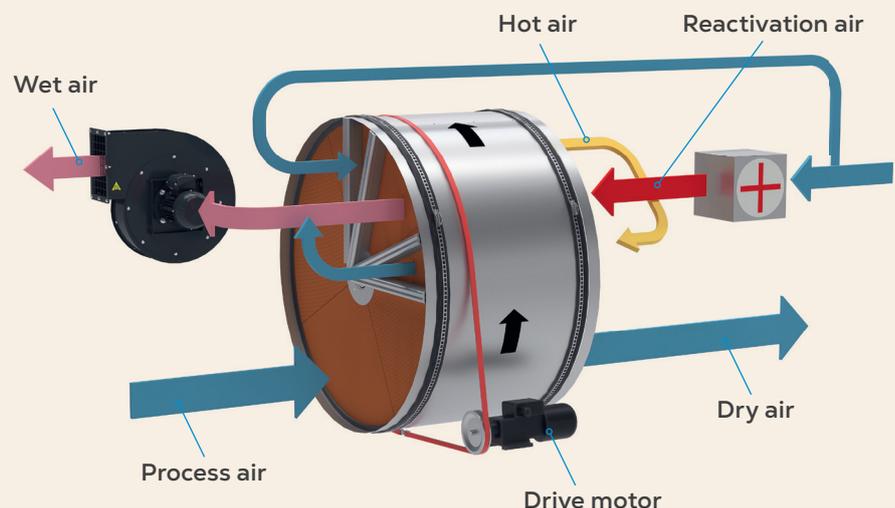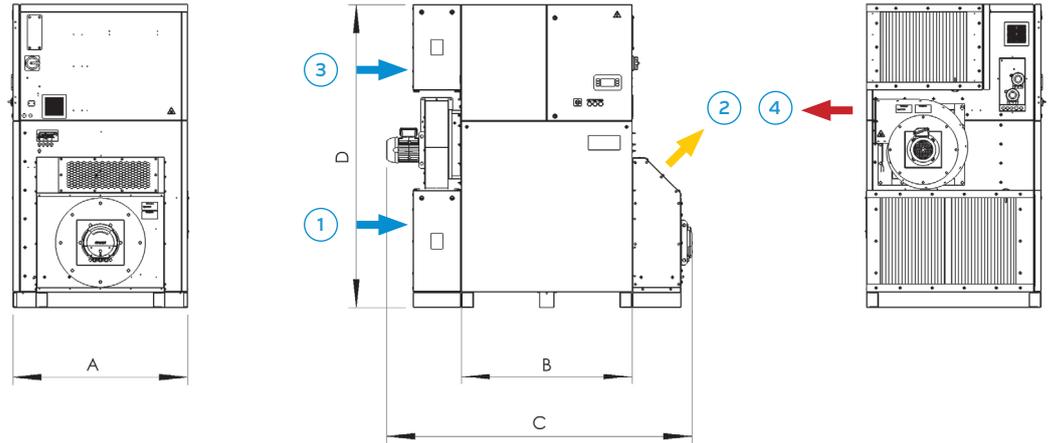
MX3 35
MX3 40
MX3 55

MX3 60
MX3 80
MX3 95

Dimensions (mm)	MX3 35	MX3 40	MX3 55	MX3 60	MX3 80	MX3 95
A: Depth	1091	1091	1091	1307	1307	1307
B: Width	1068	1068	1068	1068	1068	1068
C: Width	1903	1903	1903	2240	2240	2240
D: Height	1909	1909	1909	2214	2214	2214
1: Process air IN	544×846	544×846	544×846	560×1071	560×1071	560×1071
2: Dry air OUT	280×560	280×560	300×620	480×780	480×780	480×780
3: React air IN	444×540	444×540	444×540	560×537	560×537	560×537
4: Wet air OUT	140×250	140×250	140×250	180×316	180×316	180×316
Weight (kg)	472	537	479	704	712	656

Technical specifications

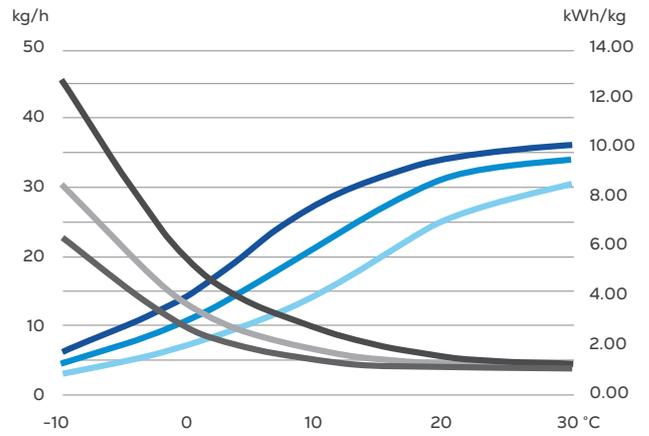|	MX3 35	MX3 40	MX3 55	MX3 60	MX3 80	MX3 95
Moisture removal 20 °C, 60% RH (kg/hr)	26.3	31.2	29.5	52.6	63.3	48.9
Energy consumption 20 °C, 60% RH (kWh/kgH$_2$O)	1.45	1.26	1.3	1.31	1.27	1.32
Sound power level to room Lw (A) dB, all inlets and outlets ducted (dB)	80	81	80	81	83	83
Process air						
Rated airflow (m³/h)	3500	4000	5500	6000	8000	9500
Fan power (kW)	2.9	2.9	3.4	5.7	5.7	5.7
Fan motor rating	EC fan	EC fan	EC fan	EC fan	EC fan	EC fan
Reactivation air						
Rated airflow (m³/h)	1090	1100	1090	1925	2325	1850
Fan power (kW)	1.1	1.1	1.1	3	3	3
Fan motor rating	IE3	IE3	IE3	IE3	IE3	IE3
Option plenum fan motor power (kW)	2.68	2.68	3.35	5.7	5.7	5.7
Total power (kW)						
Total max power – Electrical	40.5	40.5	41	69.2	87.2	69.2
Total max power – Steam/Gas	4.5	4.5	5	9.2	9.2	9.2
Voltage/Phases (V/PH)						
Electrical/Steam/Gas (All models)	380V 3-50/60 Hz, 400V 3-50 Hz, 415V 3-50 Hz, 440V 3-60 Hz					
Max steam working pressure bar (g)	7	7	7	7	7	7
Gas consumption (m³/h)	1.51	3.54	3.54	5.91	7.68	5.91
Steam consumption 3 bar (kg/h)	60.75	60.75	60.75	101.25	102.46	103.55
Steam consumption 4 bar (kg/h)	61.48	61.48	61.48	131.62	133.20	134.61
Steam consumption 5 bar (kg/h)	62.13	62.13	62.13	101.25	102.46	103.55
Miscellaneous data						
Operating temperature (°C)	–20 – +40	–20 – +40	–20 – +40	–20 – +40	–20 – +40	–20 – +40
Minimum static pressure (Pa) process/reactivation	300	300	300	300	300	300
Lowest filter class available	Coarse 65% (G4)	Coarse 65% (G4)	Coarse 65% (G4)	Coarse 65% (G4)	Coarse 65% (G4)	Coarse 65% (G4)
IP class	IP 44	IP 44	IP 44	IP 44	IP 44	IP 44

Airflow data is measured under standard dry air conditions (20 °C, 1013 hPa).

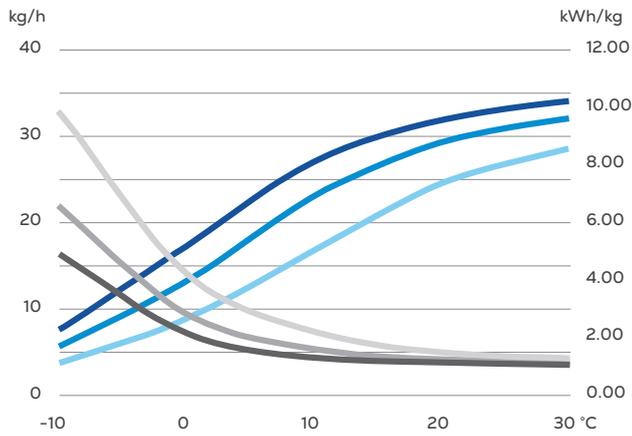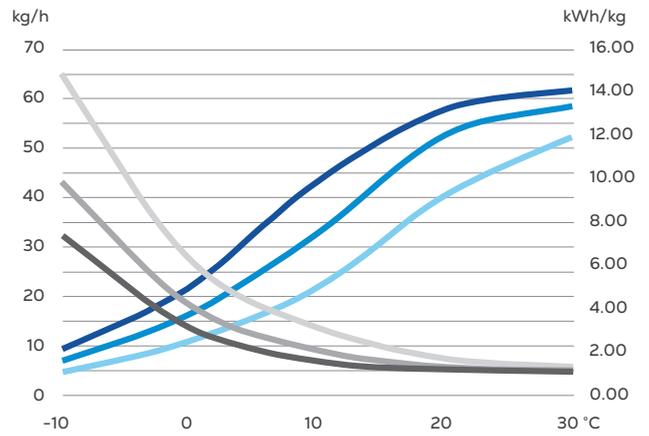# Dehumidification capacity & Energy efficiency

MX3 35
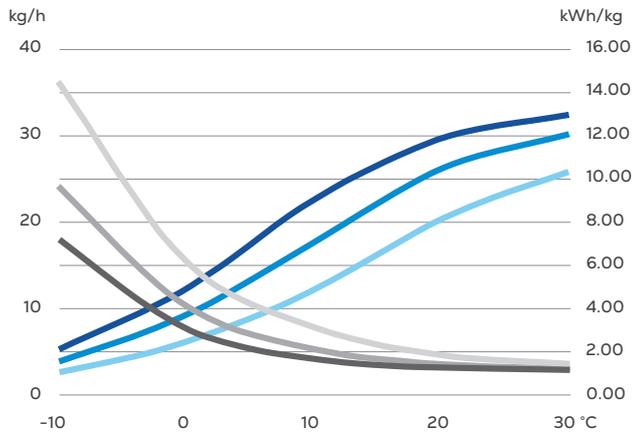
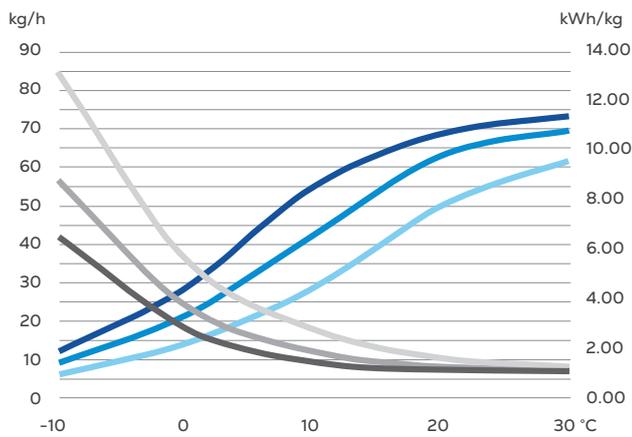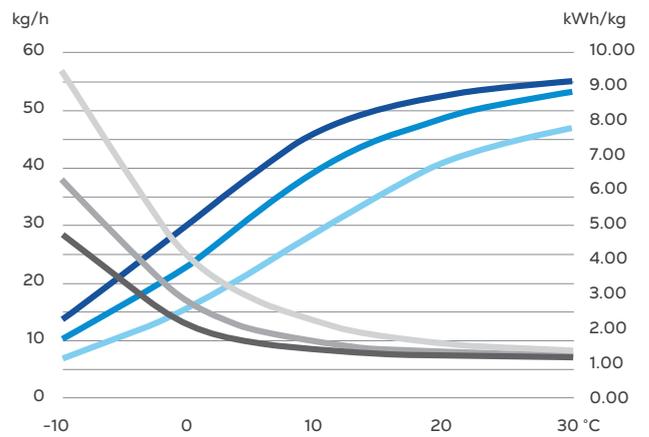## MX3 40

MX3 55

MX3 60

MX3 80

MX3 95

■ Capacity at 40%   ■ Capacity at 60%   ■ Capacity at 80%   ■ Energy efficiency at 40%   ■ Energy efficiency at 60%   ■ Energy efficiency at 80%

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