

ML Series

Desiccant Dehumidifier



Product Description

ML23 is a newly developed desiccant dehumidifier that comes as standard with a number of functions that are usually considered options. As with all other ML units, ML23 effectively dehumidifies to a low moisture level.

Thanks to its unique design, the entire air treatment process of the ML series of dehumidifiers occurs in a closed rotor unit with tightly sealing rotor housings made of heat-resistant thermoset plastic.

A high level of regulation accuracy, over 10 alarm indicators, an operating time counter and the option of remote control come as standard in the integrated PLC unit with display.

Another new feature is the integrated service indicator, which signals when it is time for maintenance servicing.

The shell is made of Aluzinc and the outer panels are in painted Aluzinc. ML23 can be delivered with 3 different reactivation alternatives – electricity, steam or gas.

The electrical equipment conforms to EN 60204 (IEC204) standards. The electrical system is designed for voltages up to 480 V and an ambient temperature of up to 60 °C.

The ML series of dehumidifiers conform to both harmonised European standards and technical specifications for CE marking.

Munters Rotor Technology

Munters desiccant rotors consist of corrugated composite material with highly effective moisture-absorbing substances. Thanks to special rotor technology, the dehumidifier effectively uses supplied energy to the maximum. A distinguishing quality of the ML series' rotor technology is an extra rotor sector that generates higher capacity in combination with heat recovery, which makes the installed power low.

PRODUCT INFORMATION

ML23

Features

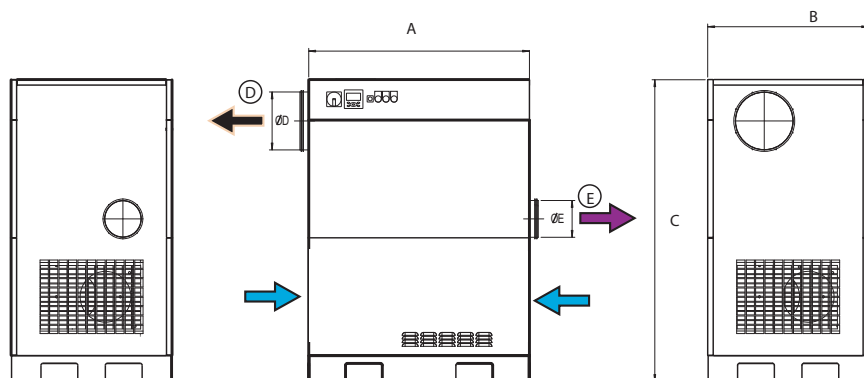
- Energy efficient with integrated heat recovery.
- Advanced control panel with diagnostic fault indication.
- Effectively dehumidifies in air temperatures ranging from -20°C to +40°C.
- Unique plastic rotor housings that are tightly sealing and heat resistant.
- Easy to install.
- Stainless steel casing available as an option.



Model ML23

Diagram measurements are for reference only.

Scaled and dimensioned drawings are available in Munters DryCap program.



Width (A)	Depth (B)	Height (C)	Diam. (D)	Diam. (E)	Weight
1200 mm	870 mm	1640 mm	315 mm	200 mm	285 kg

Technical Specification

Process air

Rated airflow (m³/h)	2300
Available static pressure (Pa)	300

Reactivation air

Rated airflow (m³/h)	850
Available static pressure (Pa)	300

Total power, voltage and current (amps/phase)

Total power (kW) Electrical	28,9 (50Hz) 29,6 (60Hz)
Total power (kW) Steam/Gas	4,3 (50Hz) 5,0 (60Hz)

380V 3-50 Hz (A) Electrical	47,1
380V 3-50 Hz (A) Steam/Gas	10,7
400V 3-50 Hz (A) Electrical	45,3
400V 3-50 Hz (A) Steam/Gas	10,7
415V 3-50 Hz (A) Electrical	44,0
415V 3-50 Hz (A) Steam/Gas	10,7
440V 3-60 Hz (A) Electrical	41,9
440V 3-60 Hz (A) Steam/Gas	10,6
460V 3-60 Hz (A) Electrical	40,6
460V 3-60 Hz (A) Steam/Gas	10,6
480V 3-60 Hz (A) Electrical	39,3

480V 3-60 Hz (A) Steam/Gas	10,6
Steam consumption (g/s)	12
Max steam working pressure (bar) (g)	5
Gas consumption (m³/h)	2,2
Natural gas pressure (mbar)	20-30
Max sulphur content (ppm) HPS Rotor	30

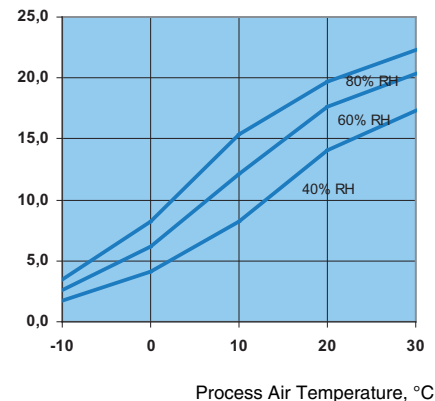
Miscellaneous data

Operating temperature (°C)	-20/+40
Max noise level unducted (dBA)	76
Air filter standard	G3
IEC protective class (unit)	IP33
IEC protective class (electrical panel)	IP44

Dehumidification Capacity

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

Dehumidification capacity, kg/h



Accessories

External filterbox F7
(870x780x870 mm)
170 1437-01 SS
170 1437-11 Aluzink
(see separate datasheet)

External filterbox G3
(686x576x101 mm)
170 1446-01 SS
170 1446-11 Aluzink
(to be ordered if process filter is required for insulated process inlet)