MUNTERS PRODUCT INFORMATION

ML Series Desiccant Dehumidifier

Complete Dehumidification Package

ML420

Product Description

The ML420 desiccant dehumidifier is designed to efficiently dehumidify in low moisture applications. It is equipped with an internally sealed rotor unit. The rotor casing is constructed of durable thermoset plastic and contains isolated sections that provide a precise balance for dehumidification, reactivation, and heat recovery airflows. Its rugged formed metal frame and access panels are produced from corrosion resistant ALUZINK®.

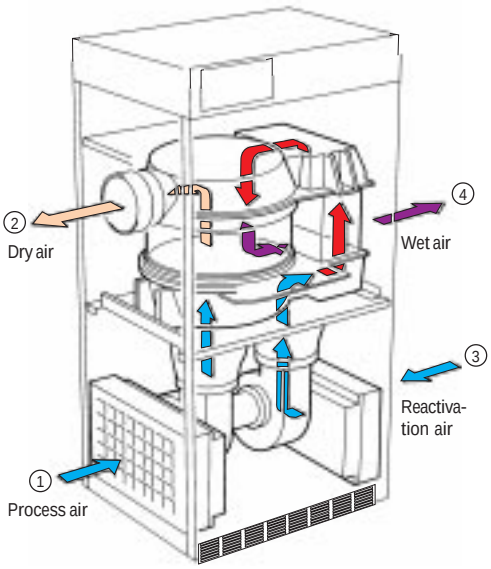
The electrical control system conforms to EN 60204 (IEC204) standards. The electrical components are mounted on busbars and are constructed of halogen-free plastic. The electrical system is designed for up to 690V and 60º C.

ML 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 ML Series rotor technology is an extra rotor sector which provides high capacity, while simultaneously recovering heat, thereby effectively reducing the electrical power requirement.



High Efficiency and Reliability

- Desiccant dehumidification – high efficiency, even below 0º C
- Advanced rotor technology – high capacity with economic operating costs
- Internally sealed rotor unit – dehumidifies to low dewpoints
- Hard plastic rotor casing – corrosion resistant construction
- Efficiently designed electrical system – enhanced reliability

Easy Installation and Operation

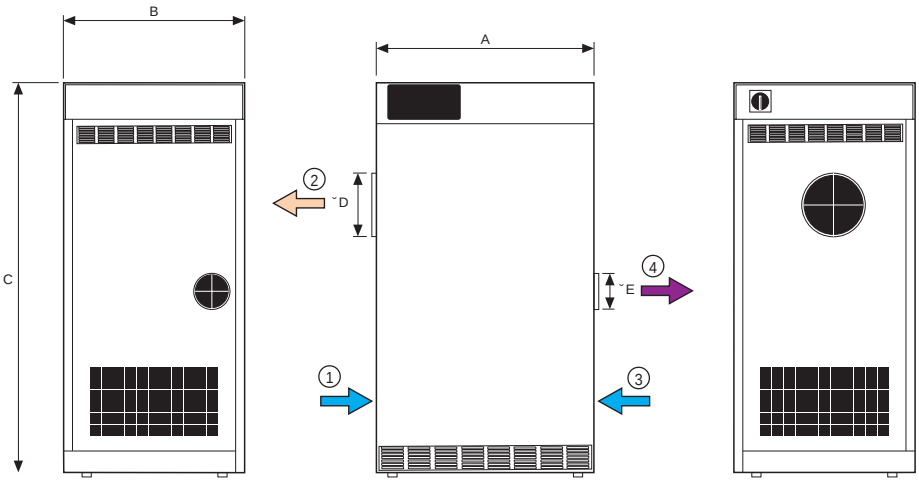
- Advanced control panel – diagnostic fault display eases maintenance
- Remote display and automatic control – increases installation flexibility
- Humidistat control – optional control of complete unit or reactivation heater only
- Easily removed access panels – fast installation and service
- Replaceable EU3 filter – enhances air quality
- Unit requires minimal floor area – allows installation in confined spaces
- Duct connections conform to ISO 7807 standards – simplifies air duct installation
- Interchangeable front and back panels – optional dry air installation

Munters

Model ML420

Diagram measurements are for reference only.

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

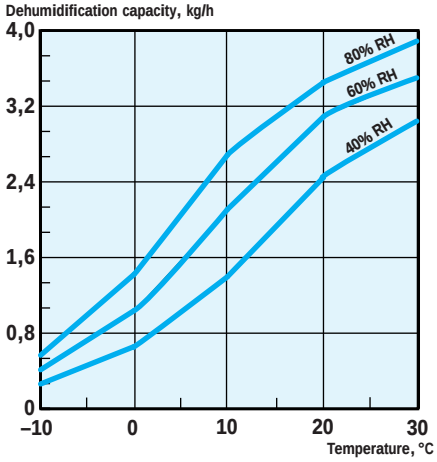


Width (A)	Depth (B)	Height (C)	Diam. (D)	Diam. (E)	Weight
715 mm	590 mm	1252 mm	160 mm	100 mm	125 kg

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, ºC
2. Process air relative humidity, % RH
3. Dehumidification capacity, kg/h moisture removal kg/hour)



Technical Specifications

Process air[1]

Rated airflow (m³/s)	0,116
Rated airflow (m³/h)	420
Available static pressure (Pa)	200
Fan motor power (kW)	0,37

Reactivation air[1]

Rated airflow (m³/s)	0,043
Rated airflow (m³/h)	155
Available static pressure (Pa)	200
Fan motor power (kW)[2]	–

Total power, voltage and current (amps/phase)

Total power (kW)	4,57
200V 3~50Hz (A)	13,8
200V 3~60Hz (A)	–
220V 3~50Hz (A)	–
230V 3~50Hz (A)	12,0
380V 3~50Hz (A)	7,3
400V 3~50Hz (A)	6,9
415V 3~50Hz (A)	5,7
440V 3~60Hz (A)	6,3

Reactivation air heater

Heater power (kW)	4,2
Temperature increase across heater(ºC)	95

Miscellaneous data

Operating temperature (ºC)	–20/+40
Drive motor power (W)	10
Max noise level unducted (dBA)	66
Air filter, standard	EU3
IEC protective class	
unit	IP44
electrical panel	IP54
Winding insulation grade	
Fan motor	Class F
Drive motor	Class F
High temperature cut-out (ºC)	160±5
Amperage rating	
remote on relay	2A, 250VAC (max)
alarm contact	2A, 250VAC (max)
Control voltage	24VAC

Options

- Hours run counter (monitors the number of hours the system is operational)
- Blocked filter alarm
- Rotor stopped alarm
- Humidity control system with alarm and display

  Refer to the RH98 product data sheet
- Air cooled condenser

  Refer to the ML420L product data sheet
- Stainless steel sheet metal casing

[1] Stated performance based on 20ºC and air density of 1,2kg/m³
[2] Common motor for process and reactivation fans

Distributor

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Produced by Wikströms, Uppsala, Sweden
Printed matter. License 341 051

DH/MEA/PSGBint-0020-08/98