

# ML Series Desiccant Dehumidifier



## 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 60° 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.

## PRODUCT INFORMATION

# ML420

## Features

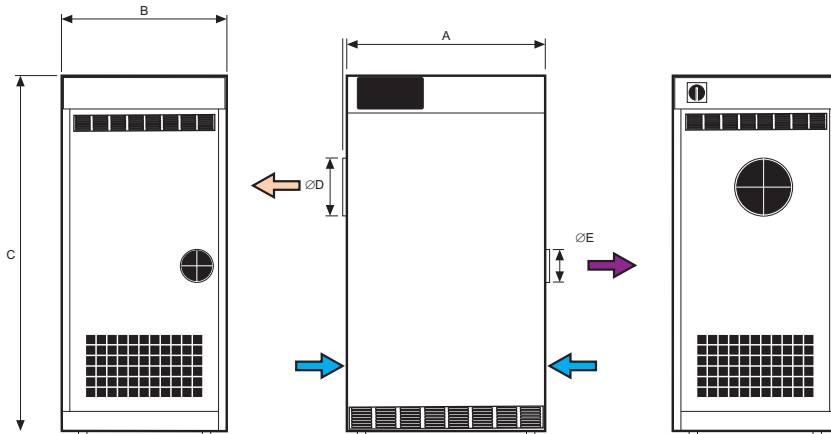
- Advanced control panel - diagnostic fault display.
- Unique plastic rotor casing 100 % corrosion resistance.
- Dehumidifies efficient down to -20°C.
- Dehumidifies to low dewpoint.
- Interchangeable front and back panels - easier to install.



## Model ML420

Diagram measurements are for reference only.

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



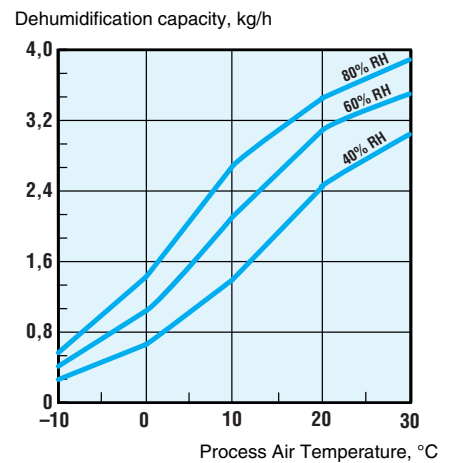
Width (A)	Depth (B)	Height (C)	Diam. (D)	Diam. (E)	Weight
719 mm	590 mm	1305 mm	160 mm	100 mm	125 kg

## Technical Specification

	IEC protective class (unit)	IP33
	IEC protective class (electrical panel)	IP54
<b>Process Air</b>		
Rated airflow (m <sup>3</sup> /h)	420	
Available static pressure (Pa)	200	
<b>Reactivation air</b>		
Rated airflow (m <sup>3</sup> /h)	155	
Available static pressure (Pa)	200	
<b>Total power, voltage and current (amps/phase)</b>		
Total power(kW)	4,57	
220V 3-50Hz (A)	12,6	
220V 3-60Hz (A)	12,6	
230V 3-50Hz (A)	12,1	
230V 3-60Hz (A)	12,1	
380V 3-50Hz (A)	7,3	
380V 3-60Hz (A)	7,3	
400V 3-50Hz (A)	7,0	
415V 3-50Hz (A)	6,7	
440V 3-60Hz (A)	6,4	
460V 3-60Hz (A)	6,1	
480V 3-60Hz (A)	5,9	
500V 3-50Hz (A)	5,6	
<b>Miscellaneous Data</b>		
Operating temperature (°C)	-20/+40	
Sound power level to room Lw(A) dB, all inlets and outlets ducted	66	
Air filter standard	G3	

## Dehumidification Capacity

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



## 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

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DH/MEA/PGB-0020-11/09