

ML-L Series with Air Cooled Condenser



Product Description

The ML420L desiccant dehumidifier with air cooled condenser is designed to efficiently dehumidify in unheated closed spaces. The wet air from the dehumidifier is passed through the air cooled condenser and then returned to the rotor in a closed loop circuit. The components within the closed loop are constructed of stainless steel and thermoset plastic. Water removed by the condenser is drained away. The heat from the air cooled condenser is then either used in the application or ducted away. Its rugged formed metal frame and access panels are produced from corrosion resistant Aluzink®. The electrical system conforms to established ML-L Series standards as well as 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-L Series rotor technology is an extra rotor sector which provides high capacity, while simultaneously recovering heat, thereby effectively reducing the electrical power requirement. The reactivation air is continually re-circulated.

PRODUCT INFORMATION

ML420L

Features

- Advanced control panel - diagnostic heat available.
- Heat recovery – condenser heat available.
- Easy to install – no wet air duct needed.
- Dehumidifies efficient down to -0°C.
- Unique plastic rotor casing 100% corrosion resistance.



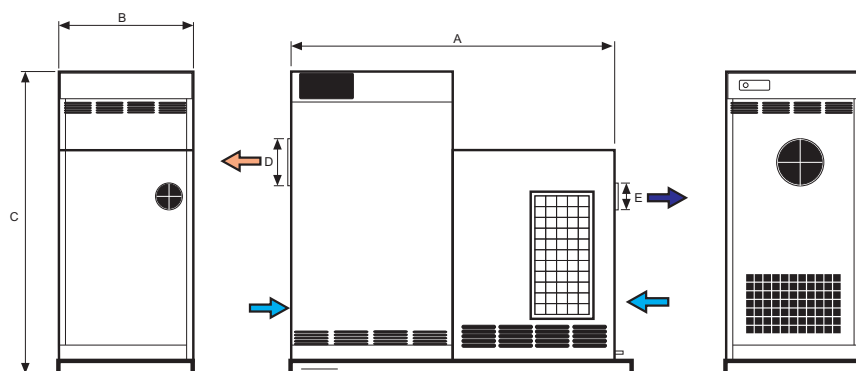
Munters

The Humidity Expert

Model ML420L

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
1500 mm	590 mm	1305 mm	160 mm	250 mm	214 kg

Technical Specification

Process air

Rated airflow (m³/h)	420
Available static pressure (Pa)	200

Reactivation air

Rated airflow (m³/h)	155
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Condenser air

Rated airflow (m³/h)	1250
Available static pressure (Pa)	200
Fan motor power (kW)	1,1
Sensible heat, condenser air (kW)	3,2

Total power, voltage and current (amps/phase)

Total power(kW)	6,12
220V 3-50Hz (A)	18,2
230V 3-50Hz (A)	17,7
380V 3-50Hz (A)	10,5
400V 3-50Hz (A)	10,2
415V 3-50Hz (A)	9,9

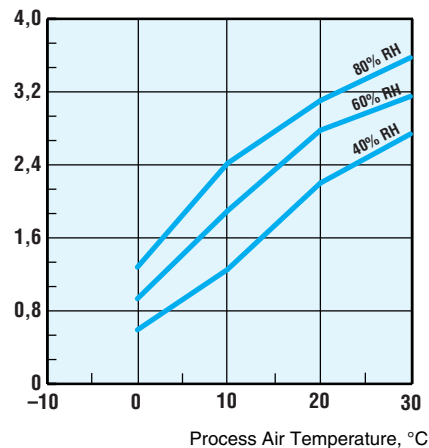
Miscellaneous data

Operating temperature (°C)	+0/+25
Max noise level unducted (dBA)	66
Air filter standard	G3
IEC protective class (unit)	IP44
IEC protective class (electrical panel)	IP54

Dehumidification Capacity

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

Dehumidification capacity, kg/h



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
- Stainless steel sheet metal casing



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