

MUNTERS PRODUCT INFORMATION

ML-L Series Dehumidifier with Air Cooled Condenser

Complete Dehumidification Package



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

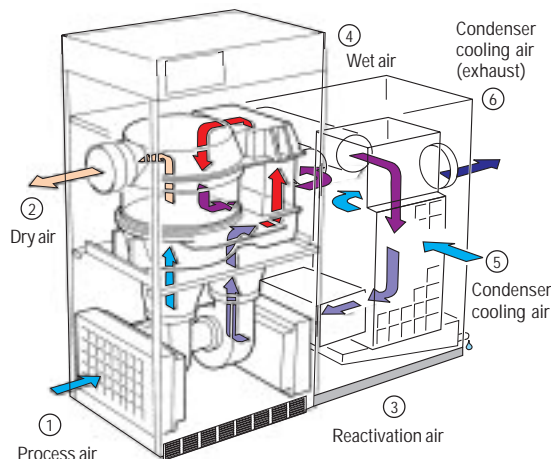
from the air cooled condenser is then either used in the application or ducted away.

Its rugged formed metal frame and access panels are produced from corrosion resistant ALUZINK®. The electrical system conforms to established ML 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 wet air is reapplied as reactivation air.



ML420L

High Efficiency and Reliability

- Desiccant dehumidification – dehumidifies efficiently, even at low temperatures
- Advanced rotor technology – high capacity with low energy consumption
- Heat recovery – condenser heat available for use in the application
- Efficiently designed electrical system – enhanced reliability

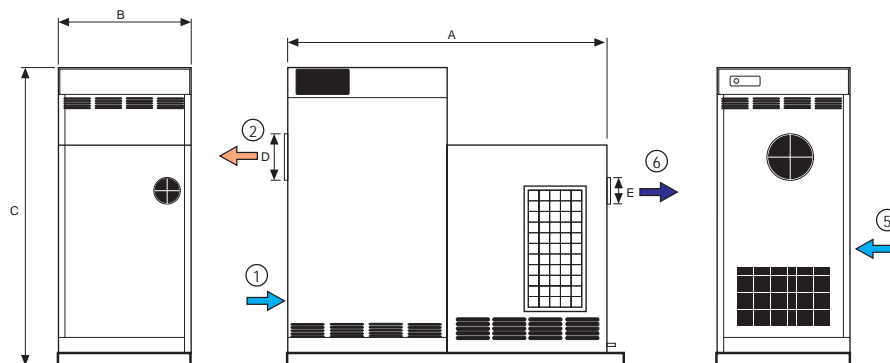
Easy Installation and Operation

- Closed looped reactivation circuit – no wet air duct connection needed
- Corrosion resistant reactivation circuit components – virtually maintenance-free
- Advanced control panel – diagnostic fault display eases maintenance
- Remote display and automatic control – increases installation flexibility
- Humidistat control – optional control of entire system or reactivation heater only
- Easily removed access panels – fast installation and service
- Replaceable EU3 filter – enhances air quality
- Duct connections conform to ISO 7807 standards – simplifies duct installation

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 Specifications

Process air¹

Rated airflow (m ³ /s)	0,116
Rated airflow (m ³ /h)	420
Available static pressure (Pa)	200
Fan motor power (kW)	0,37

Reactivation air¹

Rated airflow (m ³ /s)	0,043
Rated airflow (m ³ /h)	155
Available static pressure (Pa)	-
Fan motor power (kW) ²	-

Condenser air

Rated airflow (m ³ /s)	0,347
Rated airflow (m ³ /h)	1250
Available static pressure (Pa)	200
Fan motor power (kW)	1,1
Sensible heat, condenser air (kW) (calculated at +20°C 50%RH)	3,2

Total power, voltage and current (amps/phase)

Total power (kW)	6,12
200V 3~50Hz (A)	-
200V 3~60Hz (A)	-
220V 3~50Hz (A)	-
230V 3~50Hz (A)	16

380V 3~50Hz (A)	9,8
400V 3~50Hz (A)	9,5
415V 3~50Hz (A)	8,3
440V 3~60Hz (A)	8,9

Reactivation air heater

Heater power (kW)	4,2
Temperature increase across heater (°C)	95
Heater power, condenser (kW)	0,45

Miscellaneous data

Operating temperature (°C)	±0/+25
Drive motor power (W)	10
Max noise through duct (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 (°C)	160±5
Amperage rating	
remote on relay	2A, 250VAC (max)
alarm contact	2A, 250VAC (max)
Control voltage	24VAC

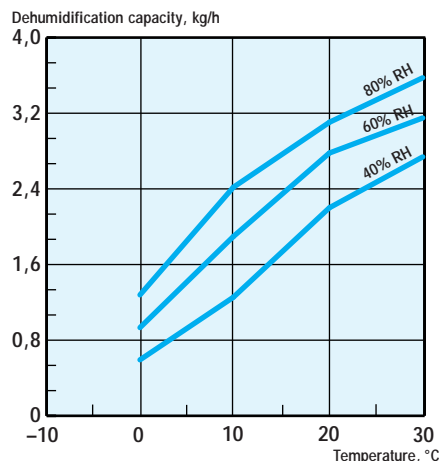
¹ Stated performance based on 20°C and air density of 1,2kg/m³

² Common motor for process and reactivation fans

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



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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