

## MUNTERS PRODUCT INFORMATION

# ML-L Series Dehumidifier with Air Cooled Condenser

## Complete Dehumidification Package



# ML180L

### 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
- Basic control panel – monitors the system operation status
- 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

## Product Description

The ML180L 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

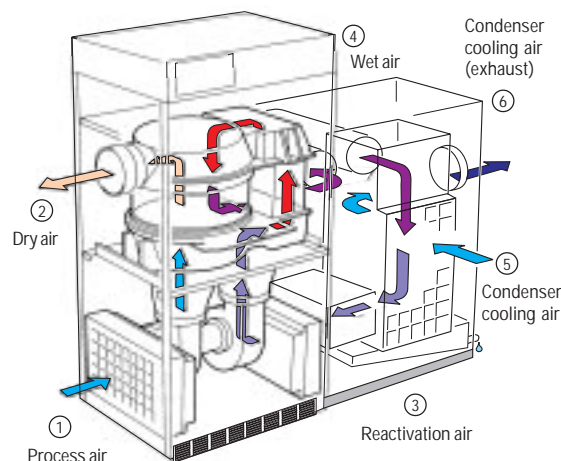
from the air cooled condenser is then either used in the application or ducted away.

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.



# Model ML180L

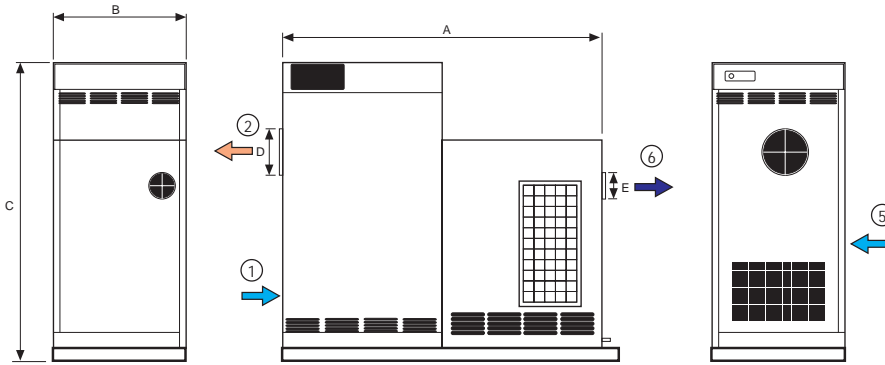
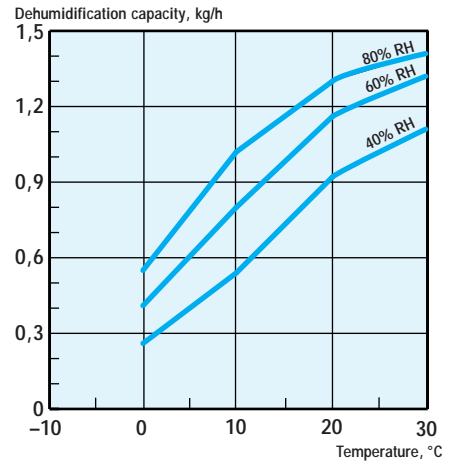
Diagram measurements are for reference only.

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

# 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)



Width (A)	Depth (B)	Height (C)	Diam. (D)	Diam. (E)	Weight
1141 mm	410 mm	910 mm	125 mm	200 mm	113 kg

## Technical Specifications

<b>Process air<sup>1</sup></b>	220V 1~50Hz (A) _____ 12,4
Rated airflow (m <sup>3</sup> /s) _____ 0,050	230V 1~50Hz (A) _____ 12,2
Rated airflow (m <sup>3</sup> /h) _____ 180	240V 1~50Hz (A) _____ 10,8
Available static pressure (Pa) _____ 200	
Fan motor power (kW) _____ 0,25	
<b>Reactivation air<sup>1</sup></b>	<b>Reactivation air heater</b>
Rated airflow (m <sup>3</sup> /s) _____ 0,019	Heater power (kW) _____ 1,8
Rated airflow (m <sup>3</sup> /h) _____ 67	Temperature increase across heater (°C) _____ 95
Available static pressure (Pa) _____ -	Heater power, condenser (kW) _____ 0,22
Fan motor power (kW) <sup>2</sup> _____ -	<b>Miscellaneous data</b>
<b>Condenser air</b>	Operating temperature (°C) _____ ±0/+25
Rated airflow (m <sup>3</sup> /s) _____ 0,180	Drive motor power (W) _____ 5
Rated airflow (m <sup>3</sup> /h) _____ 650	Max noise through duct (dBA) _____ 75
Available static pressure (Pa) _____ 200	Air filter, standard _____ EU3
Fan motor power (kW) _____ 0,3	IEC protective class _____
Sensible heat, condenser air (kW) _____ 1,4 (calculated at +20°C 50%RH)	unit _____ IP44
<b>Total power, voltage and current (amps/phase)</b>	electrical panel _____ IP54
Total power (kW) _____ 2,57	Winding insulation grade _____
115V 1~50Hz (A) _____ -	Fan motor _____ Class F
115V 1~60Hz (A) _____ -	Drive motor _____ Class F
200V 1~50Hz (A) _____ -	High temperature cut-out (°C) _____ 160±5
200V 1~60Hz (A) _____ -	Amperage rating _____
	remote on relay _____ 2A, 250VAC (max)
	alarm contact _____ 2A, 250VAC (max)
	Control voltage _____ 24VAC

<sup>1</sup> Stated performance based on 20°C and air density of 1,2kg/m<sup>3</sup>

<sup>2</sup> Common motor for process and reactivation fans

## Options

- Hours run counter (monitors the number of hours the system is operational)
- Humidity control system with alarm and display  
Refer to the RH98 product data sheet
- Stainless steel sheet metal casing



Munters Europe AB  
www.munters.com

Munters Europe AB  
Dehumidification Division  
Box 434  
S-191 24 Sollentuna  
SWEDEN  
Tel: +46 8 626 63 00  
Fax: +46 8 626 63 65

Distributor

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