

ML Series Desiccant Dehumidifier

Complete Dehumidification Package

ML690



Product Description

The ML690 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®.

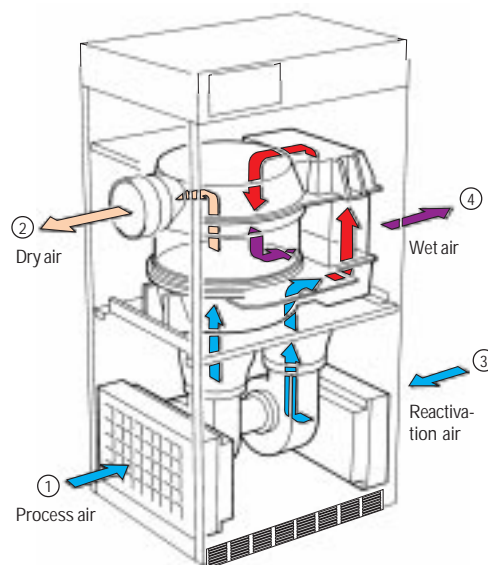
The electrical control system conforms to EN 60204 (IEC204) standards. The electrical components are mounted on busbars and are constructed of halogen-free plastic. The electrical system is designed for up to 690V and 60° C.

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.



High Efficiency and Reliability

- Desiccant dehumidification – high efficiency, even below 0° 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

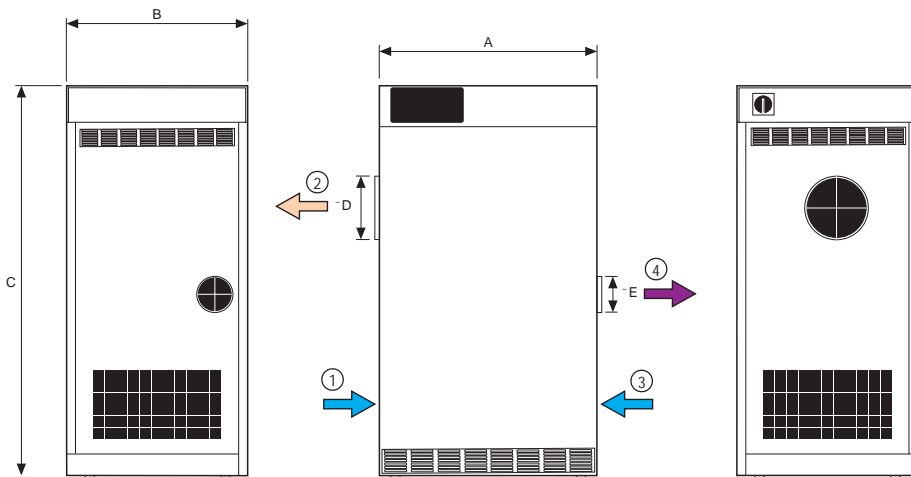
Easy Installation and Operation

- 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

Model ML690

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	1352 mm	200 mm	125 mm	143 kg

Technical Specifications

Rated airflow (m³/s) _____ 0,192
 Rated airflow (m³/h) _____ 690
 Available static pressure (Pa) _____ 300
 Fan motor power (kW) _____ 0.55

Reactivation air¹

Rated airflow (m³/s) _____ 0,071
 Rated airflow (m³/h) _____ 254
 Available static pressure (Pa) _____ 300
 Fan motor power (kW) _____ 0,37

Total power, voltage and current (amps/phase)

Total power (kW) _____ 7,82
 200V 3~50Hz (A) _____ 24,1
 200V 3~60Hz (A) _____ -
 220V 3~50Hz (A) _____ -
 230V 3~50Hz (A) _____ 21,0
 380V 3~50Hz (A) _____ 12,7
 400V 3~50Hz (A) _____ 12,1
 415V 3~50Hz (A) _____ 11,6
 440V 3~60Hz (A) _____ 11,0

Reactivation air heater

Heater power (kW) _____ 6,9
 Temperature increase across heater (°C) _____ 95

Miscellaneous data

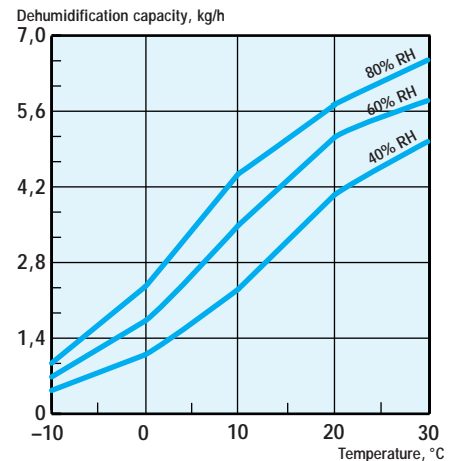
Operating temperature (°C) ___ -20/+40
 Drive motor power (W) _____ 10
 Max noise level unducted (dBA) ___ 74
 Air filter, standard _____ EU3
 IEC protective class _____
 unit _____ IP44
 electrical panel _____ IP54
 Winding insulation grade _____
 Fan motor _____ Class F
 Drive motor _____ Class F
 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

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
- Air cooled condenser
Refer to the ML690L product data sheet
- Stainless steel sheet metal casing



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DH/MEA/PGBint-0021-08/98