ML Series
Desiccant Dehumidifier

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 60º 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
ML690

Features

- Advanced control panel - diagnostic fault display.
- Unique plastic rotor casing 100 % corrosion resistance.
- Dehumidifies efficient down to -20ºC.
- Dehumidifies to low dewpoint.
- Interchangeable front and back panels - easier to install.
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
---|---|---|---|---|---
719 mm | 590 mm | 1405 mm | 200 mm | 125 mm | 143 kg

Technical Specification

Process Air
Rated airflow (m³/h) 690
Available static pressure (Pa) 300

Reactivation air
Rated airflow (m³/h) 254
Available static pressure (Pa) 300

Total power, voltage and current (amps/phase)
Total power (kW) 7.82
220V 3-50Hz (A) 22.0
220V 3-60Hz (A) 22.5
230V 3-50Hz (A) 21.6
230V 3-60Hz (A) 21.7
380V 3-50Hz (A) 12.7
380V 3-60Hz (A) 13.0
400V 3-50Hz (A) 12.4
415V 3-50Hz (A) 12.2
440V 3-60Hz (A) 11.3
460V 3-60Hz (A) 11.0
480V 3-60Hz (A) 10.8
500V 3-50Hz (A) 10.0

Miscellaneous Data
Operating temperature (ºC) -20/+40
Sound power level to room Lw(A) dB, all inlets and outlets ducted 68
Air filter standard G3

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

<table>
<thead>
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<th>Process Air Temperature, °C</th>
<th>0% RH</th>
<th>20% RH</th>
<th>40% RH</th>
<th>60% RH</th>
<th>80% RH</th>
<th>100% RH</th>
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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

Subject to change without notice.