

MLT Series Desiccant Dehumidifier

Complete Dehumidification Package



Product Description

The MLT800 desiccant dehumidifier is designed to effectively dehumidify high airflow applications using minimal energy. 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®.

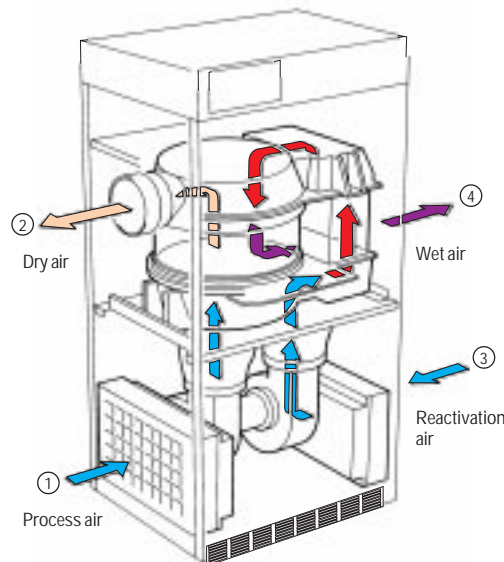
Munters Rotor Technology

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 MLT Series rotor technology is an extra rotor sector which provides high capacity, while simultaneously recovering heat, thereby effectively reducing the electrical power requirement.

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.

MLT Series dehumidifiers conform to both harmonised European Standards and to CE marking specifications.



MLT800

High Efficiency and Reliability

- Desiccant dehumidification – high efficiency, even below 0° C
- Advanced rotor technology – high capacity with economic operating costs
- Hard plastic rotor casing – corrosion resistant construction
- Efficiently designed electrical system – enhanced reliability

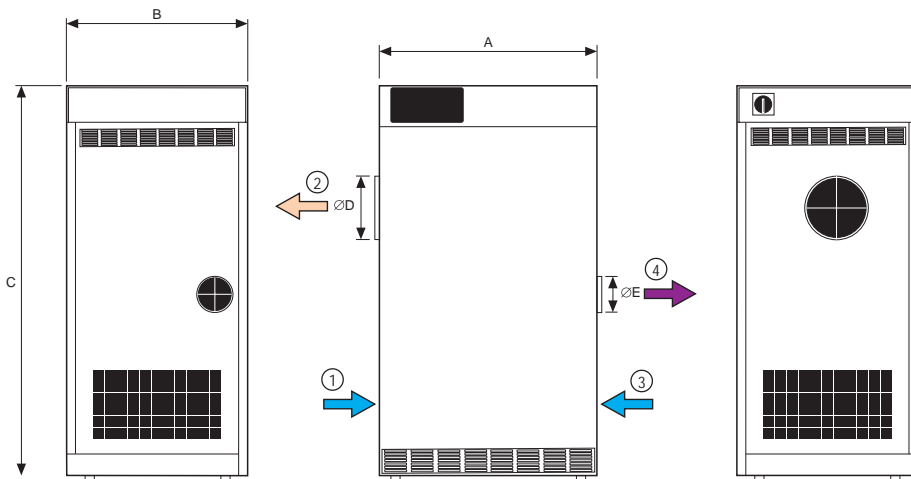
Easy Installation and Operation

- 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 MLT800

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	1252 mm	160 mm	100 mm	125 kg

Technical Specifications

Process air¹

Rated airflow (m³/s) _____ 0,222
 Rated airflow (m³/h) _____ 800
 Available static pressure (Pa) _____ 200
 Fan motor power (kW) _____ 0,55

Reactivation air¹

Rated airflow (m³/s) _____ 0,043
 Rated airflow (m³/h) _____ 155
 Available static pressure (Pa) _____ 200
 Fan motor power (kW) _____ 0,37

Total power, voltage and current (amps/phase)

Total power (kW) _____ 5,12
 200V 3~50 Hz (A) _____ 16,1
 200V 3~60 Hz (A) _____ -
 220V 3~50 Hz (A) _____ -
 230V 3~50 Hz (A) _____ 14,1
 380V 3~50 Hz (A) _____ 8,5
 400V 3~50 Hz (A) _____ 8,1
 415V 3~50 Hz (A) _____ 7,8
 440V 3~60 Hz (A) _____ -

Reactivation air heater

Heater power (kW) _____ 4,2
 Temperature increase across heater (°C) _____ 95

Miscellaneous data

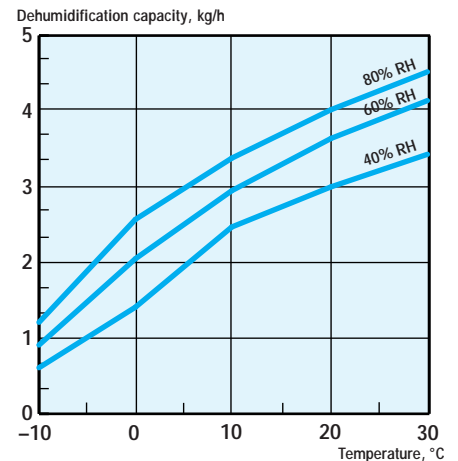
Operating temperature (°C) _ -20 / +40
 Drive motor power (W) _____ 10
 Max noise level unducted (dBA) _____ 74
 Air filter, standard _____ EU3
 IEC protective class (unit) _____ IP44
 IEC protective class (electrical panel) _____ IP54
 Fan motor winding insulation grade _____ Class F
 Drive motor winding insulation grade _____ Class F
 High temperature cut-out (°C) _ 160±5
 Amperage rating
 remote on relay _ 2 A, 250 VAC (max)
 alarm contact _ 2 A, 250 VAC (max)
 Control voltage _____ 24 VAC

¹ Stated performance based on 20°C and air density of 1,2 kg/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 MLT800L product data sheet
- Stainless steel sheet metal casing



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