

# TECHNICAL DATASHEET

# Desiccant dehumidifier MDC1000





**Vast experience** Practical experience in the desiccant dehumidification more than 10 years



Made in Europe All components made exclusively by European manufacturers



**EU standards** The equipments complies to all of the applicable EU directives and regulations



### GENERAL INFORMATION

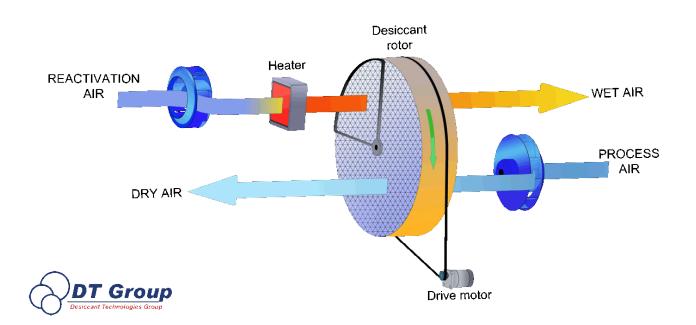
Desiccant dehumidifier MDC1000 designed for general purposes – room air dehumidification and process drying. The compact construction allows extended periods of operation with a minimum of maintenance. Especially suitable for low temperature and low humidity operation. Unit includes desiccant rotor, EC-fans, reactivation PTC-heater, filters and controls.

In addition to above mentioned application, desiccant dehumidifiers are irreplaceable in:

- protecting against window condensation and glass ceiling in the administrative as well as residential buildings;
- improving the quality of the finishing works during apartment repairs due to drying without thermal movements in the covering products used for walls, floor and ceiling;
- elimination of the effects of the floods, drying new buildings;
- increasing the shelf life of hygroscopic materials: medicines, detergents, building materials and other bulk materials;
- maintaining a low level of humidity during the production of food items as well as products made of wood, rubber and plastic, during the manufacture of furs;
- maintaining the marketable condition of clothing and packaging items;
- reducing the growth of bacteria, etc.

#### **METHOD OF OPERATION**

A desiccant dehumidifier removes water from a flow of the air that passes through it. The heart of this process is an adsorption rotor coated with a special substance that absorbs the water molecules that make up the moisture in the passing air (Process air). When saturated, the rotor is rotated over to a regeneration zone, where it is dried with heated air (Reactivation air). The warm, humid regeneration air is led away out of the unit (Wet air) and the rotor is once again ready to absorb water molecules.





**MDC1000** 

## CONSTRUCTIONAL FEATURES

- The casing has high resistance to atmospheric corrosion and made of 1,0 mm stainless steel sheet metal; some parts made of 1,5 and 2,0 mm stainless steel in order to achieve rigidity. Insulation 20mm.
- · Compact design and low weight of the unit
- · High performance at low temperatures and low relative humidity in a room
- Optional humidistat is available as an accessory
- Microprocessor based control (option)
- Easy access to the internal components of the dehumidifier for the maintenance
- EC-fans
- PTC-heater
- High efficiency of the washable silica gel rotor
- All components made exclusively by European manufacturers

#### **TECHNICAL DATA**

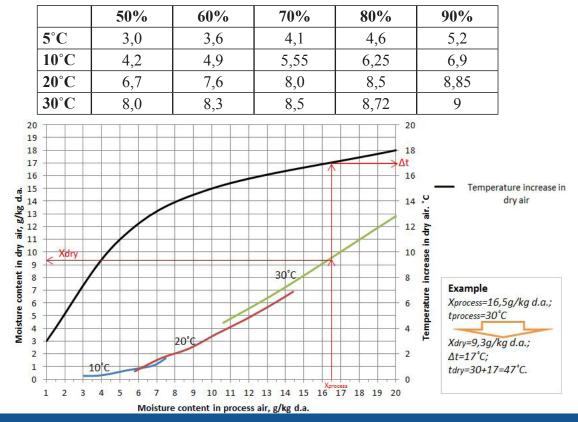
# Process airRated airflow1000 m³/hAvailable static pressure200 PaReactivation air200 m³/hRated airflow400 m³/hAvailable static pressure280 PaPower supply280 Va(3x400V, 50 Hz)13 kWCurrent19 A

#### Miscellaneous data

Dehumidification capacity	
(at 20 °C, 60%RH)	7,6 kg/h
Weight	155 kg
Operating temperature	
Max noise level	
without ductworks	70 dBA
Air filter	EU4
IEC protective class	IP44
Insulation	

#### **DEHUMIDIFICATION CAPACITY**

Approximate capacity in kg/h at different inlet process air relative humidity (%) and temperature (°C)

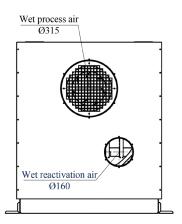


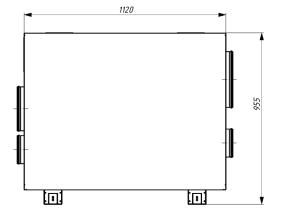
3

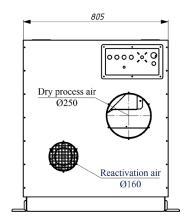


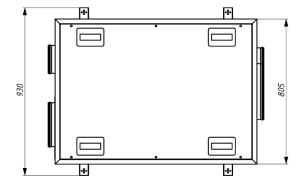


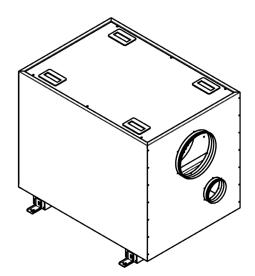
#### DIMENSIONS











Changes are possible without notice

