





EU STANDARDS The equipment comply to all of the applicable EU directives and regulations.



MADE IN EUROPE All components made exclusively by European manufacturers.



VAST EXPERIENCE

Practical experience in the desiccant dehumidification more than 15 years.



TECHNICAL DATASHEET

Desiccant dehumidifier MDC450R

www.destech.eu

GENERAL INFORMATION

The MDC450R desiccant dehumidifier is designed for general purposes – room air dehumidification and process drying. The compact construction allows extended periods of operation with a of Dehumidifier is minimum maintenance. designed for drying-out buildings, new buildings as well as waterdamaged buildings; to control humidity in basements and garages. Furthermore, it is used for room air dehumidification, dry air storage, water works and pump stations, etc. Especially suitable for low temperature and low humidity operation.

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.



Flimination of the effects of the floods, drying new buildings.

Increasing the shelf life of hygroscopic production of food materials: medicines, items as well as detergents, products made of building materials wood, rubber and and other bulk plastic, during the manufacture of furs. materials.

Maintaining a low level of humidity during the



packaging

items.

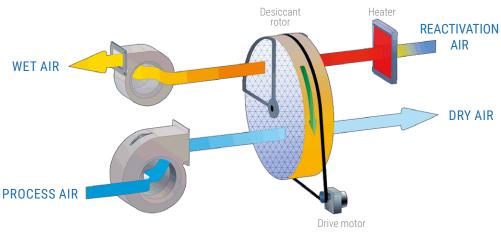


Maintaining Reducing the marketable the growth of bacteria, condition of clothing and etc

METHOD OF OPERATION

flow of the air that passes through it. The heart of air this process is an adsorption rotor coated with a regeneration air is led away out of the unit (Wet air) substance that absorbs the water special molecules that make up the moisture in the passing air (Process air). When saturated, the rotor is rotated over to

A desiccant dehumidifier removes water from a a regeneration zone, where it is dried with heated (Reactivation air). The warm. humid and the rotor is once again ready to absorb water molecules.



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;
- · Compact design and low weight of the unit;
- High performance at low temperatures and low relative humidity in a room;
- Digital humidistat Micatrone HC2;
- Rigid frame for safe transportation and installation;
- Swivel wheels for easy movement;
- Easy access to the internal components of the dehumidifier for the maintenance;
- PTC-heater;
- High efficiency of the washable silica gel rotor;
- All components made exclusively by European manufacturers.

TECHNICAL DATA

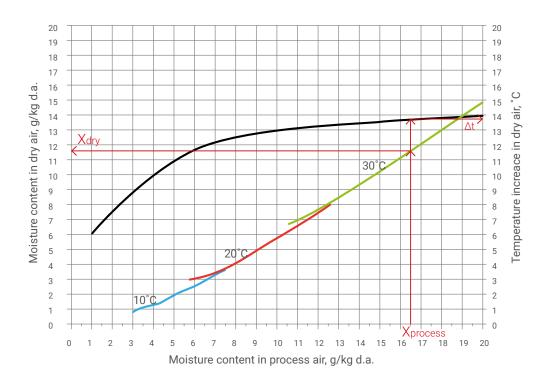
450 m³/h		
120 Pa		
120 m³/h		
50 Pa		
3 kW		
13 A		

Miscellaneous data	
Dehumidification capacity (at 20 °C, 60%RH)	2,2 kg/h
Weight	40 kg
Operating temperature	-30/+40°C
Max noise level without ductworks	62 dBA
Air filter	EU4
IEC protective class	IP44

DEHUMIDIFICATION CAPACITY

	50%	60%	70%	80%	90%
5°C	1,1	1,23	1,4	1,52	1,67
10°C	1,4	1,6	1,7	1,9	2,0
20°C	2,0	2,2	2,3	2,43	2,46
30°C	2,5	2,6	2,7	2,8	2,9

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

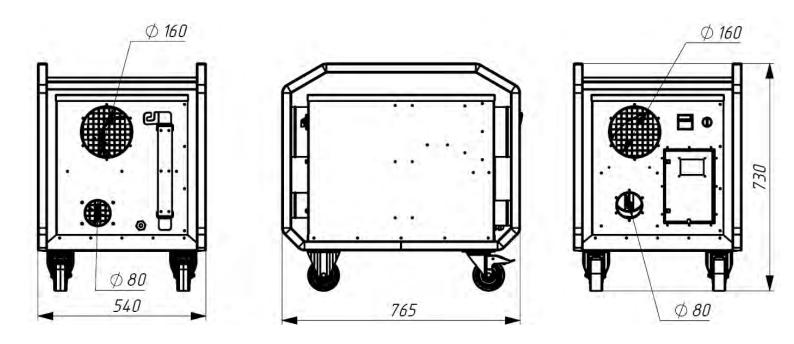


——Temperature increase in dry air

Example

Xprocess=16,5g/kg d.a.; tprocess=30°C

Xdry=11,6g/kg d.a.; ∆t=13,7°C; tdray=30+13,7=43,7°C



Changes are possible without notice.



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