

THE MOST ADVANCED DESICCANT TECHNOLOGIES FOR PRECISE MICROCLIMATE CONTROL



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 MDC800R

www.destech.eu

GENERAL INFORMATION

The MDC800R desiccant dehumidifier is designed for general purposes - room air dehumidification and process drying. The compact construction allows extended periods of operation with a Dehumidifier minimum of maintenance. is 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.



Elimination of the effects of the floods, drying new materials: buildings. medicines. materials

Increasing the shelf life of hygroscopic detergents, building materials and other bulk



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.



packaging

items.



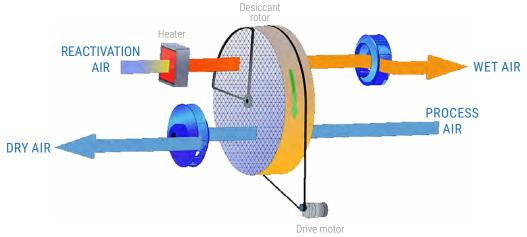
Maintaining the marketable condition of clothing and etc.

Reducina the growth of băcteria,

METHOD OF OPERATION

A desiccant dehumidifier removes water from a a regeneration zone, where it is dried with heated 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) special substance that absorbs the water and the rotor is once again ready to absorb water molecules that make up the moisture in the passing molecules. air (Process air). When saturated, the rotor is rotated over to

(Reactivation air). The warm. humid



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

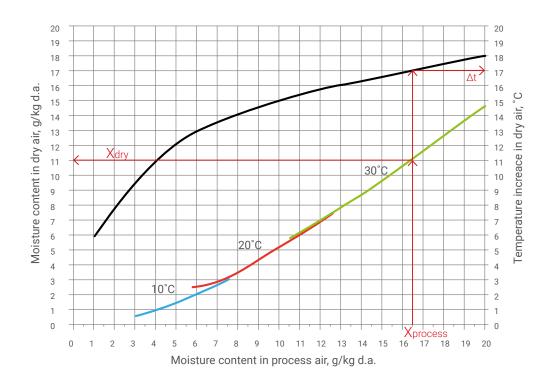
Process air			
Rated airflow	800 m³/h		
Available static pressure	160 Pa		
Reactivation air			
Rated airflow	250 m³/h		
Available static pressure	180 Pa		
Power supply			
(3ph+N 400V, 50 Hz)	7 kW		
Current	10 A		

Miscellaneous data		
Dehumidification capacity (at 20 °C, 60%RH)	4,4 kg/h	
Weight	105 kg	
Operating temperature	-30/+40°C	
Max noise level without ductworks	60 dBA	
Air filter	EU4	
IEC protective class	IP44	

DEHUMIDIFICATION CAPACITY

	50%	60%	70%	80%	90%
5°C	2,07	2,4	2,71	3,0	3,3
10°C	2,75	3,15	3,44	3,7	4,06
20°C	4,1	4,4	4,6	4,85	4,92
30°C	5,0	5,1	5,16	5,3	5,3

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

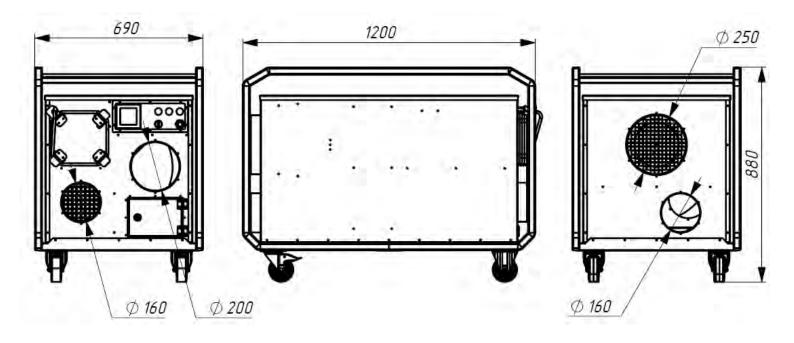


------Temperature increase in dry air

Example

Xprocess=16,5g/kg d.a.; tprocess=30°C

Xdry=11g/kg d.a.; ∆t=17°C; tdray=30+17=47°C



Changes are possible without notice.



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