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https://sorbtech.nt-rt.ru || shh@nt-rt.ru

DT Group
Desiccant Technologies Group

FORGET HUMIDITY FOR EVER!

Industrial desiccant dehumidifiers and tailor-made total environmental control systems

Desiccant Technologies Group UAB — is a Lithuanian (EU) high quality and technology desiccant dehumidifiers manufacturer. Dehumidifiers are intended for use in industrial and commercial applications where dry air is needed.



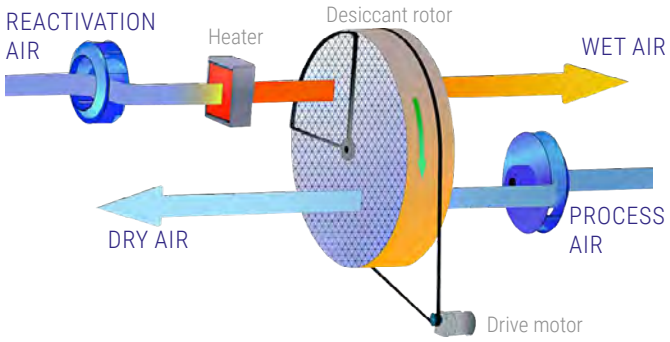



APPLICATION

Pharmaceutical industry: tableting, encapsulation, storage;
Warehouses: cold storage, unheated warehouses, silos;
Refrigerators / freezers;
Food industry: confectionery (glazing, cooling, storage), meat and dairy, beer and beverage;
Pneumatic transport;
Museums, archives;
Military storage/preservation techniques, ammunition;
Pumping stations, hydroelectric power stations, nuclear power stations;
Chemical industry: storage, transport of mineral fertilizers;
Shipyards and marine transportation;
Power generating equipment preservation of turbines, boilers, etc.;
Ice rinks;
Garages and underground parking.

METHOD OF OPERATION

A desiccant dehumidifier removes water from the air flow that passes through it. The main component in this process is an adsorption rotor made of a special substance that can absorb the water molecules out of the passing air (Process air). When saturated with moisture, the rotor is turned over into regeneration zone, where it is dried with heated air (Reactivation air). The warm, humid regeneration air is removed out of the unit (Wet air) and the rotor is once again ready to absorb water molecules.



DESIGN FEATURES

- Compact casing and low weight of the unit;
- High performance at low temperatures and relative humidity;
- Optional humidistat is available as an accessory;
- Microprocessor based control (optional);
- PTC heaters or Tubular electric heating elements for regeneration (standard); water, steam or gas regeneration on request (customized unit);
- Easy access to the internal components of the dehumidifier for the maintenance;
- EC-fans;
- Air filters G4 to F9 on request;
- High efficiency of the washable silica gel rotor;
- All components made exclusively by European manufacturers;
- Rigid and corrosion resistance casing made in stainless steel (up to size MDC3000) and in AluZinc powder painted sheet metal (MDC4000 and bigger).

SERIES MDC

Desiccant dehumidifiers MDC range process air flow from 250 m³ to 18000 m³ per hour and are very versatile. The standard MDC models are available in 13 sizes and very easy to adapt to various applications and installations. They are equipped with two fans for the separate management of the process and regeneration air. Standard unit has an electric heating element for regeneration. From MDC4000 and bigger sizes are available with water or steam heating coil for the regeneration process.

	Model	Nominal process air flow, [m³/h]	Dehumidification capacity*, [l/h]
	MDC250	290	1.1
	MDC300	300	1.4
	MDC450	450	2.2
	MDC800	800	4.4
	MDC1000	1000	7.6
	MDC2000	2000	12.2
	MDC3000	3000	16.2

	Model	Nominal process air flow, [m³/h]	Dehumidification capacity*, [l/h]
	MDC4000	4000	22.0
	MDC5000	5000	30.0
	MDC6000	6000	39.4
	MDC8000	8000	54.0
	MDC12000	13000	81.3
	MDC18000	18000	100.0

*at20˚C, 60%RH