DT Group
Desiccant Technologies Group

THE MOST ADVANCED DESICCANT TECHNOLOGIES FOR PRECISE MICROCLIMATE CONTROL

EU STANDARDS
All equipment is manufactured to the highest standards, ensuring compliance with 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.

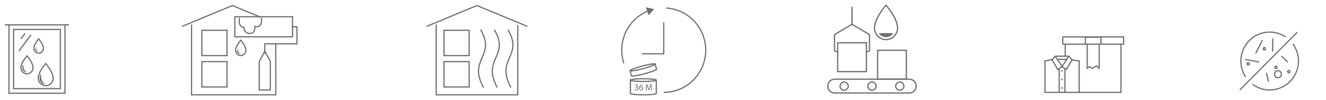
TECHNICAL DATASHEET

Desiccant dehumidifiers of DL-series

www.destech.eu

GENERAL INFORMATION

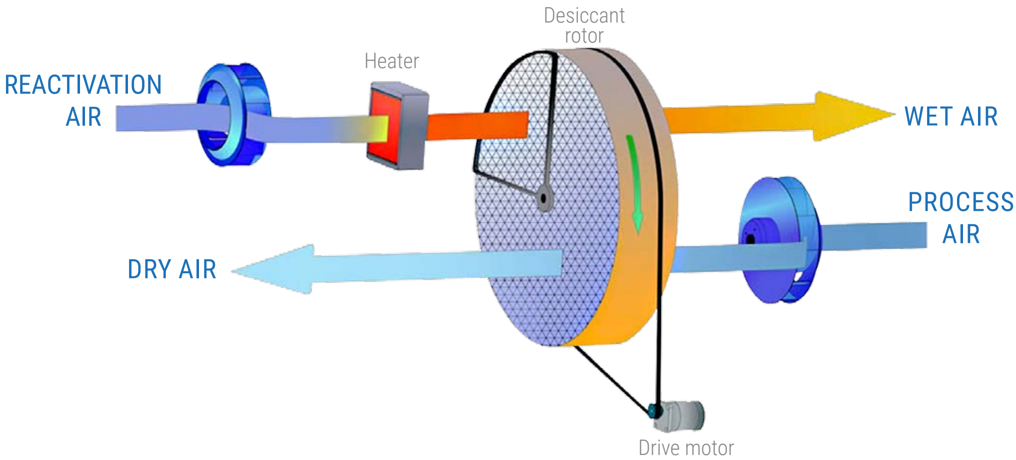
Desiccant dehumidifiers are irreplaceable in:



- 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

Desiccant dehumidifiers remove water vapour in the air by the process of adsorption. The basic principle is the air stream requiring drying (Process air) is passed over an adsorption rotor. The rotor being constructed from an inert, fireproof material that is coated in high concentration silica material removes the water vapour component of the air. As the adsorption process takes place the rotor becomes saturated. For continual drying to be achieved, the desiccant rotor rotates into the path of the regeneration zone where a separate air stream is heated by means of a reactivation heater. The heated air being very low RH causes the moisture to be removed from the desiccant material and is subsequently led out of the unit via the “wet air” stream. The DL series also features a “Energy save sector” that acts as a heat recovery zone, the main benefits of this is you recover a large proportion of the heat that would otherwise be transferred into the process air stream. As a result of this innovative feature, the DL range of desiccant dehumidifiers are leading the way in energy efficiency.



CONTROL SYSTEM

- PLC - Siemens with Modbus TCP IP;
- Temperature/humidity sensors - Siemens;
- Touch display 7" - SIEMENS
- Linear control of supply or room humidity

TECHNICAL DATA

Model	DL10	DL15	DL25	DL35
Dehumidification Capacity (+20C/60%), l/h	5.1	8.4	16	21.9
Process Air (Dry), m3/h	850	1500	2500	3500
External pressure, Pa	350	400	400	400
Regeneration Air, m3/h	250	500	680	920
External pressure, Pa	350	250	250	400
Reactivation air heater, kW	6	12	18	24
Power supply, kW	7.3	13	21.5	27.2

PRE/POST COOLERS

DL

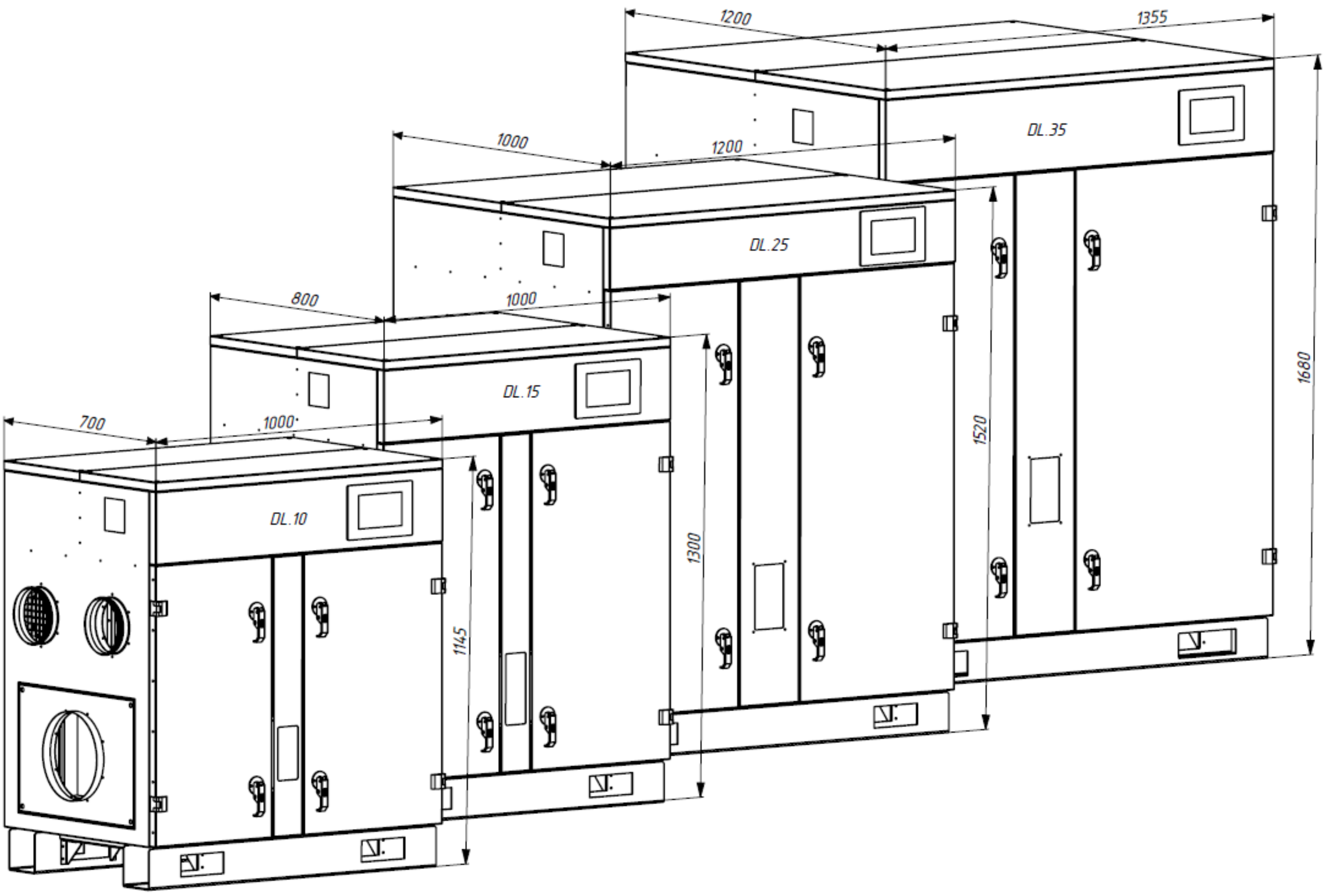
DL+precooler

Cooling capacity
DL10 - up to 15 kW
DL15 - up to 25 kW
DL25 - up to 40 kW
DL35 - up to 55 kW

DL+postcooler

Cooling capacity
DL10 - up to 6 kW
DL15 - up to 10 kW
DL25 - up to 15 kW
DL35 - up to 23 kW

DL+pre/postcooler



Changes are possible without notice.