

Dehumidifier – D 850E

ELEKTRON



- Instruction manual

version 02

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1. Description of device

1.1. General data

Dehumidifiers can be used wherever problems with high air humidity occur, i.e. not only in swimming pools, but also in rehabilitation or telecommunication centers, restaurants, hairdresser's saloons, laundries, kitchens, etc. or generally to reduce humidity in the air. The dehumidifiers are equipped with dust filters, enabling them not only to dehumidify but also to purify the air.

1.2. Technical data:

Dehumidification at 30°C, RH=70% (l/day)	60
Air discharge m ³ /h	500
Air intake	in front
Air output	on the top
Outlet of condensate (mm)	13
Heat recovery (kW)	2,1
Surface of air filter (cm ²)	1500
Voltage (V)	230 V / 50Hz
Power consumption (kW)	0,85
Hygrometer	Built-in
Electrical protection	IP 43
Refrigerant	R 407C
Working temp. min/max °C	10-35
Dimensions w/h/d (mm)	660/750/345
Weight (kg)	38

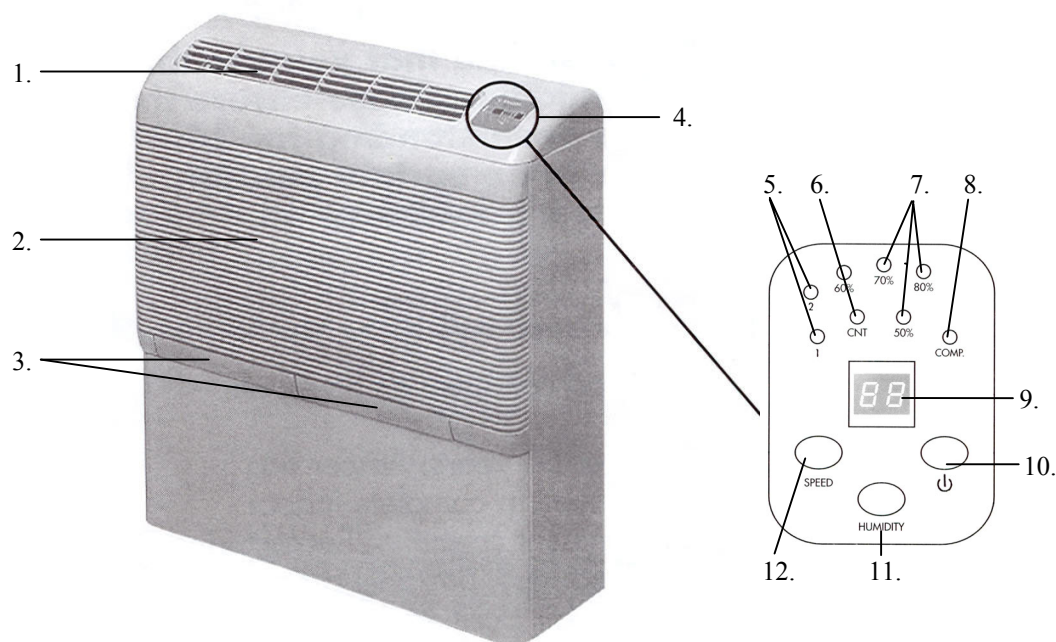
2. Operation and usage

2.1. Usage

D 850 E dehumidifiers are necessary for indoor pools, where air conditioning is not installed. They reduce air humidity to prevent condensation on windows and walls, which is the main cause for origination of mould. Right model of dehumidifier with required performance have to be used for reduce of humidity. If we use dehumidifier with small performance, it can cause damage of dehumidifier. Dehumidifier cannot be installed in places with increased dustiness. Device must be transported or carried in vertical position. It is not allowed to transport the unit slantways as it can cause its damage.

Dehumidifier eliminates the air humidity on the principle of a thermal pump and therefore you save a lot of energy.

Picture no. 1 description of dehumidifier and control panel



- 1. Outlet of air
- 2. Intake of air
- 3. Dust filters
- 4. Control panel

- 5. Indication of low / high speed of fan
- 6. Indication of durability run
- 7. Required humidity
- 8. Run compressor indication
- 9. Display of measuring humidity
- 10. Switch
- 11. Regulator of humidity
- 12. Reverser of speeds of fan

2.2. Location and installation

The unit can be either located on the floor or hanged on the wall.

Standing on the floor:

The unit is equipped with 4 plastic legs. Make sure that all the legs are settled on the floor.

Hanging on the wall:

The unit can be hung by 2 screws on the wall (in case of installation on the wall is necessary to use screws equivalent to the weight of the unit) and connect to power supply.

Place dehumidifier near the wall and aim flow of dry air from dehumidifier directly toward the windows, where steam often condensates. It is highly advised not to aim the outlet of dry air above surface of water, because it would cause increased evaporation. Dehumidifier is supplied with humidistat, which is placed at the top of dehumidifier (picture no. 1.). Drain condensed water back to the pool or sewage.

Do not use the unit, when the temperature is lower than 10 °C!

2.3. Preparation for starting and starting

Dehumidifier has button SPEED placed on the control panel (picture 1/12). It enables to choose speed of flowing air. (You can choose one of two speeds.)

Regulator of humidity – humidistat is another operating element. Humidity regulator provides switching off or switching on of compressor and it keeps the constant humidity of air.

Humidistat is adjust by button *HUMIDITY* (picture 1/11). You choose required humidity of air by pressing button. The pilot lamp indicates selected humidity, which is placed at the top part of control panel (picture 1/7).

You adjust by this way required humidity and dehumidifier will switch on and switch off automatically to keep required humidity. Sometimes it takes several days or weeks than humidity decreases to required humidity.

2.4. Operation

Air contains humidity in the form of steam. It is air humidity. Quantity of humidity, that air can contain depend on the temperature (when air is warmer, air can contain much more humidity).

Compressor is part of cooling equipment of dehumidifier, that keeps the surface cool. Circulating ventilator sucks in wet air and then sucked air flows to the cooling elements, there is reduced humidity by condensation. Then dehumidified air is blown to the condenser, where air is dried by warming. Finally dried air is flow back to the room. Dehumidifier is equipped with automatic defrosting of cooler. Ventilator sucks in the air during the defrosting cycle, but compressor is switched off automatically.

This system automatically removes ice that can be on the spiral of cooler.

Condensed water is systematically drained by hose connected to the collecting vessels of dehumidifier. It is necessary to persuade, that hose is right placed.

End of hose must not be sunk into water.

2.5. Breakdown

Before breakdown turn off dehumidifier by button on the control panel (picture 1/10). Before breakdown for long time you should disconnect the dehumidifier from plug.

2.6. Maintenance

Regular preventive service of the device (paid service) is necessary for recognition of warranty. It is necessary to have preventive service on your dehumidifier done every year starting one year after purchase. Customer is obliged to contact service and ask for term of preventive service (by phone or in writing form).

2.6.1. Cleaning the air filter

Air circulation is impeded and the efficiency of the dehumidifying and air purifying functions decreases when the filter is dirty. It is therefore good to clean the filter at regular intervals. The precise intervals depend on the room in which the appliance operates and how frequently it is used. Filters are found in front side of the dehumidifier under the grate.

- Remove the filter by sliding it out
- Clean filter or wash in tap water
- Dry the filter before inserting it back

WARNING: Cleaning the air filter must be done minimally once a month or more often – it depends on dustiness of room. The unit can be damaged without regular cleaning.

3. Trouble shooting, causes

trouble

cause

Device does not work- trouble in power supply

- check power supply
- if power supply is OK, contact supplier of dehumidifier

- humidistat is switched off (during breakdown) :

- check, if humidistat is switched on,
- if not, set humidistat to the required humidity,
- if it is not OK still, contact supplier of dehumidifier

- air can not go through grating :

- check, if air filter is clean,
- check, if dehumidifier does not stand near restriction, that would inhibit outlet of air through outlet or intake
- stand dehumidifier to the bigger distance from the wall or remove cause of inhibited outlet of air

- the unit is noisy :

- check, if the unit stand in the horizontal position or hung in horizontal position ,
- installation on the wall – check if, dehumidifier is equipped with rubber pads (picture no.1.)
- if everything is OK, contact supplier of dehumidifier

- if water outflow from the unit :

- check, if hose for drain off water is in right position (if is not broken hose, if hose has a right descent)
- check, if hose for drain off water is right fixed
- check, if outlet from dehumidifier is not blocked or if hose is not sunk into water

4. Warranty

4.1. Warranty conditions

Warranty 24 months is not relate to components with lower service life (like dust filter, thermal safety-fuse).

If defect comes up in warranty and was not caused by both user and some disasters. It is not defect of element with lower service life, the unit will be repaired free of charge, providing that:

- date of sale is not older than 24 months,
- the unit was maintained according to point 2.6.,
- were kept conditions according this documentation,
- the unit was not mechanically or violently damaged ,
- the unit was not placed in room with increased dustiness
- the unit was chosen with right performance for the specified place
- if input of the unit was not damaged (change can be provided by authorized service)

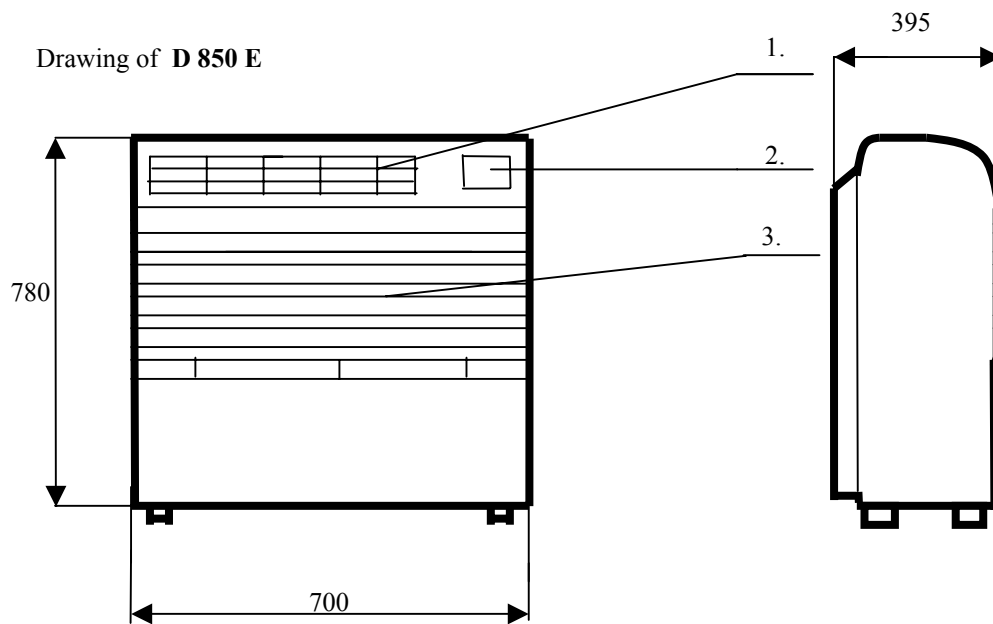
4.2. Information about service and spare parts

Warranty and post-warranty service is provided by company BAZENSERVIS:

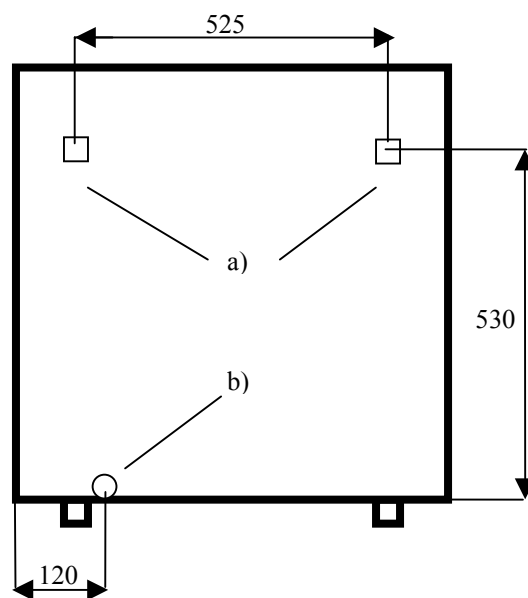
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User pays costs related to transport of device to address of service and back.

Drawing of **D 850 E**



- 1. Dry air discharge
- 2. Control panel
- 3. Wet air intake



- a) Holes for wall mounting
- b) Drain