



DESTRATYFICATOR
TECHNICAL DOCUMENTATION

TABLE OF CONTENTS

1. PURPOSE AND PRINCIPLE OF OPERATION	2
2. TECHNICAL DATA.....	2
3. WIRING DIAGRAMS	3
3.1. WIRING DIAGRAM DST	3
3.2. WIRING DIAGRAM DST BMS.....	4
4. INSTALLATION	4
4.1. MONTAGE DISTANCE.....	4
4.2. METHOD OF INSTALLATION	5
5. START-UP AND OPERATION	5
6. SERVICE AND WARRANTY TERMS.....	5

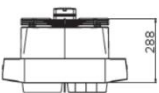
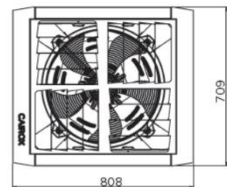
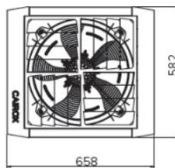
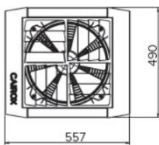
1. PURPOSE AND PRINCIPLE OF OPERATION

Destratificator (under ceiling air mixer) co-operates with various devices of the heating system and is used for improving the efficiency of heating in high objects such as: industrial shops, storehouses, supermarkets, exhibition halls.

The primary function of the under ceiling air mixer is counteracting the accumulation of warm air in upper zones of the room. An axial fan draws warm air in and forces its flow downwards, i.e. towards the zone occupied by people (the thermal comfort zone). This results in a reduction of heat losses through the ceiling and causes a faster heating of the building.

Destratificator is designed for installation indoors, in an environment protected against weather conditions and in rooms in which there is no risk of explosion.

2. TECHNICAL DATA

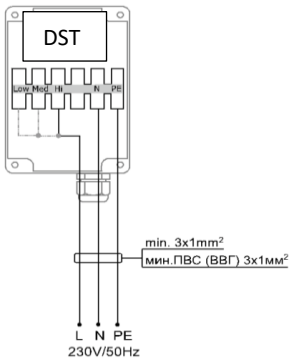


Gear	DST 2500			DST 5200			DST 7200		
	III	II	I	III	II	I	III	II	I
Max airflow [m³/h]	2500	2200	1900	5200	4200	2800	7200	6100	3900
Power supply [V/Hz]	230/50								
Max current consumption [A]	0,5	0,4	0,3	1,3	1,0	0,6	2,0	1,5	1,3
Max power consumption [W]	110	80	70	280	200	120	450	350	260
IP/ Insulation class	54 /F								
Max acoustic pressure level [dB(A)]*	56,9	55,2	49,4	65,7	58,4	44,9	72,8	66,9	53,7

* Acoustic pressure level has been measured 5m from the unit in a 1500m³ space with a medium sound absorption coefficient

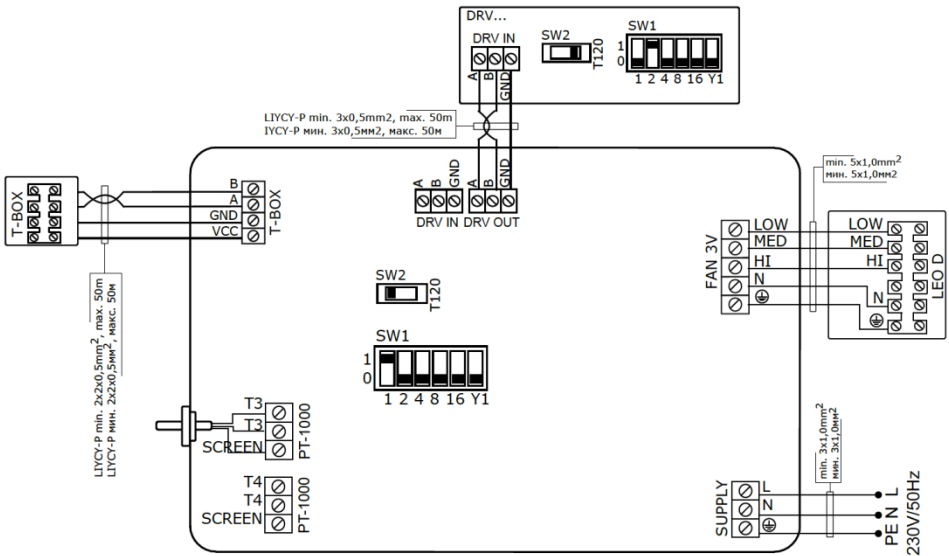
3. WIRING DIAGRAMS

3.1. WIRING DIAGRAM DST



Hi / N / Pe - 3rd fan speed
Med. / N / Pe - 2nd fan speed
Low / N / Pe - 1st fan speed

3.2. WIRING DIAGRAM DST BMS



T-BOX – S-TOUCH controller with touch screen connection

FAN 3V - 3-step fan connection

SUPPLY – supply connection

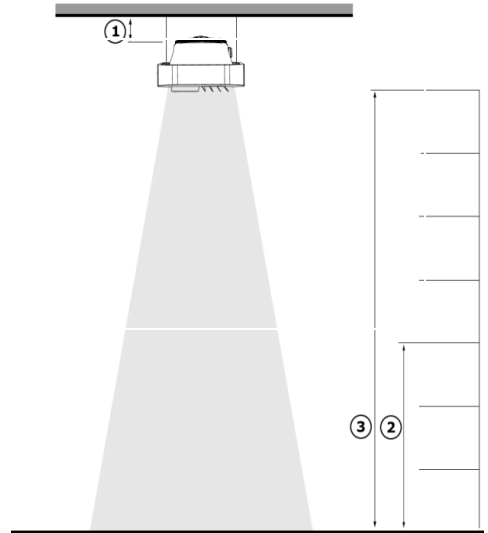
4. INSTALLATION

4.1. MONTAGE DISTANCE

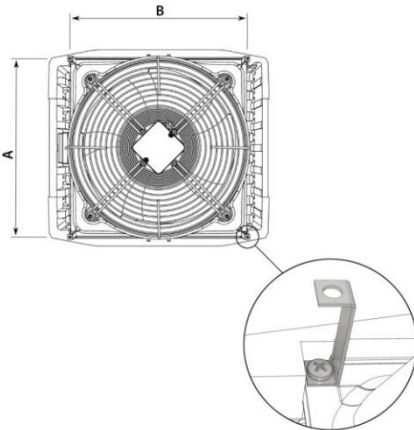
In case of installation on surface which transfer vibrations is recommended to use vibration isolator.

	DST 2500	DST 5200	DST 7200
①	min. 1 m		
②	min. 6 m		
③	max. 8 m*	max. 13 m*	max. 15 m*

*with all blades directed downwards



4.2. METHOD OF INSTALLATION



	DST 2500	DST 5200	DST 7200
A	415	515	585
B	415	515	665

Under ceiling montage must be done using each (four) U-section profiles.
It is recommended that the mounting to the ceiling be executed keeping similar distance.
Unit can be hanging by pins. Installation by ropes is not allowed.
Please mind distances of installation listed in paragraph 4.1.

5. START-UP AND OPERATION

Start Up

- Before connecting the power supply check the correctness of connection of the fan motor and the controllers. These connections should be executed in accordance with their technical documentation.
- Before connecting the power supply check whether the mains voltage is in accordance with the voltage on the device data plate.
- The electrical system supplying the fan motor should be additionally protected with a circuit breaker against the effects of a possible short-circuit in the system.
- Starting the device without connecting the ground conductor is forbidden.

Operation

- The device is designed for operation inside buildings, at temperatures above 0°C.
- The device must be inspected periodically. In the case of incorrect operation of the device it should be switched off immediately.

It is forbidden to use a damaged device. The manufacturer bears no responsibility for damage resulting from the use of a damaged device.

For the time of performing inspection or cleaning the device, the electrical power supply should be disconnected.

6. SERVICE AND WARRANTY TERMS

Please contact your dealer in order to get acquainted with the warranty terms and its limitation.

In the case of any irregularities in the device operation, please contact the manufacturer's service department.

The manufacturer bears no responsibility for operating the device in a manner inconsistent with its purpose, by persons not authorised for this, and for damage resulting from this!

Made in EU

CAIROX

<https://cairox.com>