

# AIR DESTRATIFICATOR MUD-DT Series

### APPLICATIONS

The destratifiers are designed for sites such as industrial buildings, supermarkets, public buildings, etc., which have a high height, where the heat can be stratified at the top.

The main function of the destratificator is to prevent the accumulation of hot air in the upper areas of the room. The fan takes hot air and forces its flow into the occupied zone. This solution reduces heat loss through the roof and results in faster heating of the building.



### FEATURES



#### FAN

Equipped with a 3-speed fan, this way you can control the operation and effectiveness of the air heater.



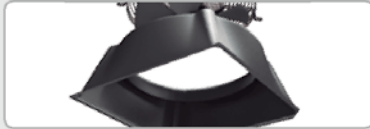
#### HOUSING EPP

Modern design with expandable polypropylene (EPP) housing, with high strength and low weight.



#### AIR DEFLECTORS

The air outlet is equipped with adjustable deflectors to direct the air as required.



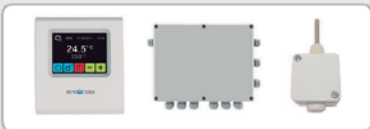
#### AIR INJECTOR

The fan is located in a special air injector to reduce noise and increase the efficiency of the unit.



#### THERMOSTAT

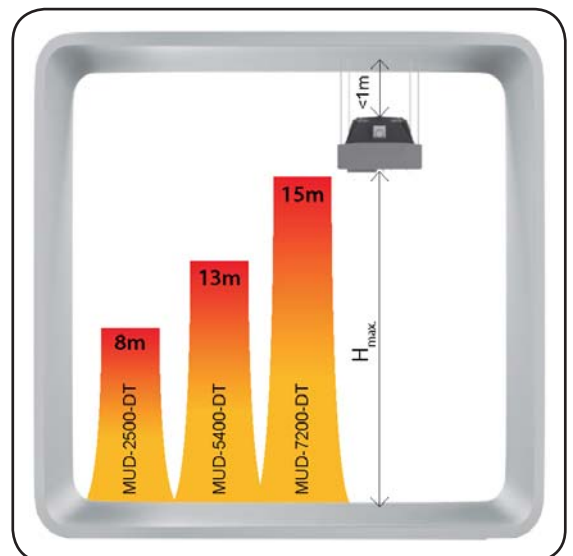
Built-in thermostat, making it easy to operate from the start.



#### MULTIPEL OPTIONALS

Possibility of integrating the destratificator in a centralized control system and even combining its operation with the MUAT-FB air heaters.

### INSTALLATION



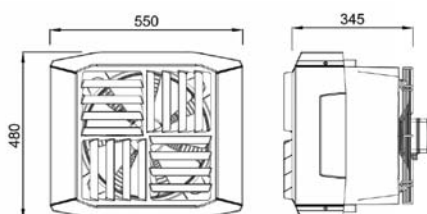
$H_{max}$  - Maximum height by installing the deflectors vertically



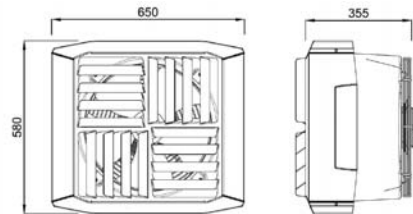
The MUD-DT destratificator are equipped with threaded rod clamps at all 4 corners.

### DIMENSIONS

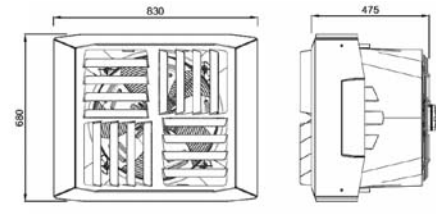
#### MUD-2500-DT



#### MUD-5400-DT



#### MUD-7200-DT



## AIR DESTRATIFIER MUD-DT Series

### TECHNICAL SPECIFICATIONS

Model		MUD-2500-DT			MUD-5400-DT			MUD-7200-DT		
Code		CL05220			CL05221			CL05222		
Speed		LOW	MEDIUM	HIGH	LOW	MEDIUM	HIGH	LOW	MEDIUM	HIGH
Air flow rate	m <sup>3</sup> /h	1,500	2,000	2,500	3,100	4,500	5,400	3,900	6,100	7,200
Max. consumption	W	65	85	110	220	280	320	260	350	450
Current	A	0.3	0.4	0.5	1.0	1.2	1.4	1.4	1.5	2.0
Sound pressure level <sup>(1)</sup>	dB(A)	38	44	49	45	50	55	50	57	62
Installation height	max. <sup>(2)</sup>	8			13			15		
	min.	6			6			6		
Power supply	V/ Hz	230 / 50								
Protection degree		IP 54								
Color		Grey (RAL 9007)								
Dimensions (W x H x D)	mm	550 x 480 x 345			650 x 580 x 355			830 x 680 x 475		
Weight	kg	8.9			13.9			19.5		

Notes: <sup>(1)</sup> Sound level measured at 5 m from the unit, in a room with medium sound absorption capacity and a volume of 1 500 m<sup>3</sup>.

<sup>(2)</sup> With all blades in vertical position facing the floor.

### OPTIONALS

#### Concentrator RX (CL91186)

Allows integration of 3-speed equipment into a group or centralized control system. Up to 3 RX concentrators can be combined, meaning that a single group can consist of up to 36 units:

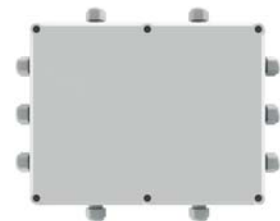


- 12 units of MUAT-10/20/30-FB air heater;
- 6 units of MUAT-25/40/55-FB air heater;
- 6 units of MUD-DT destratifier;
- 3 units of MUAT-75/100-FD air heater;
- 3 MU-GC air curtain units (except R3);

The connection of up to 36 units is made with 3 RX concentrators connected to a control device (SE-3 Thermostat or other); in the case of air curtains, the RX concentrator also allows the connection of DCm door sensors.

#### DRV-DT (CL91184) Module

The DRV-DT module is designed for connection to MUD-DT destratifiers. Up to 31 DRV modules can be combined and controlled with a single central T-BOX control.



DRV-DT functions:

- Possibility to connect the T-BOX central control.
- Possibility to connect to MODBUS-RTU.
- Possibility of connecting a temperature sensor. PT-1000.

#### Ambient temperature sensor PT-1000 (CL91187)

Ambient temperature sensor PT-1000 IP65, for connection to a DRV module.



#### T-BOX Central Control (CL91182)

Central touch control of up to 31 DRV modules.

Functions:

- Weekly programmer with up to 20 actions, each action can be set to a different temperature in the range 5 - 45°.
- Intuitive use and easy view of operating parameters.
- Multi-language (Spanish, English, German, etc.).
- Cooperation with MODBUS-RTU.
- Combined with the MUAT-FB air heaters with the MUD-DT destratifiers (with their respective DRV modules), it automatically manages the room destratification, so that when the room temperature drops below the set point, the destratifiers are started first and if this does not increase the room temperature, the air heaters are automatically activated.



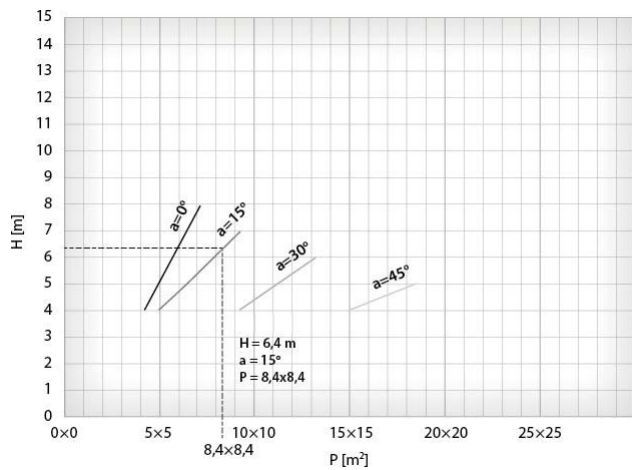
AIR DESTRATIFIER MUD-DT Series

SELECTION

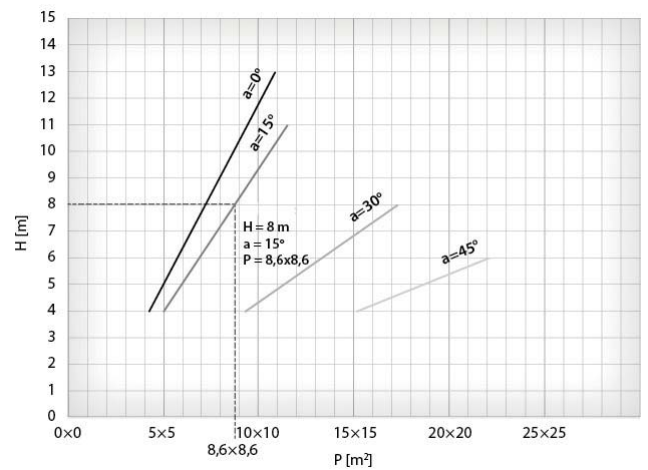


H - Height [m]  
P - Surface [m<sup>2</sup>]  
a - Blades angle

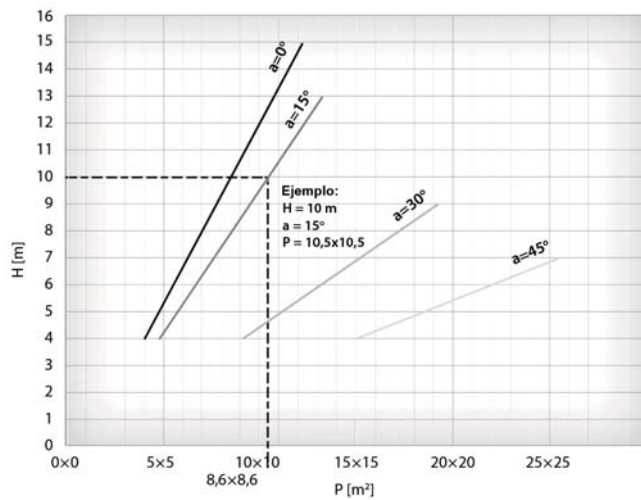
MUD-2500-DT



MUD-5400-DT



MUD-7200-DT

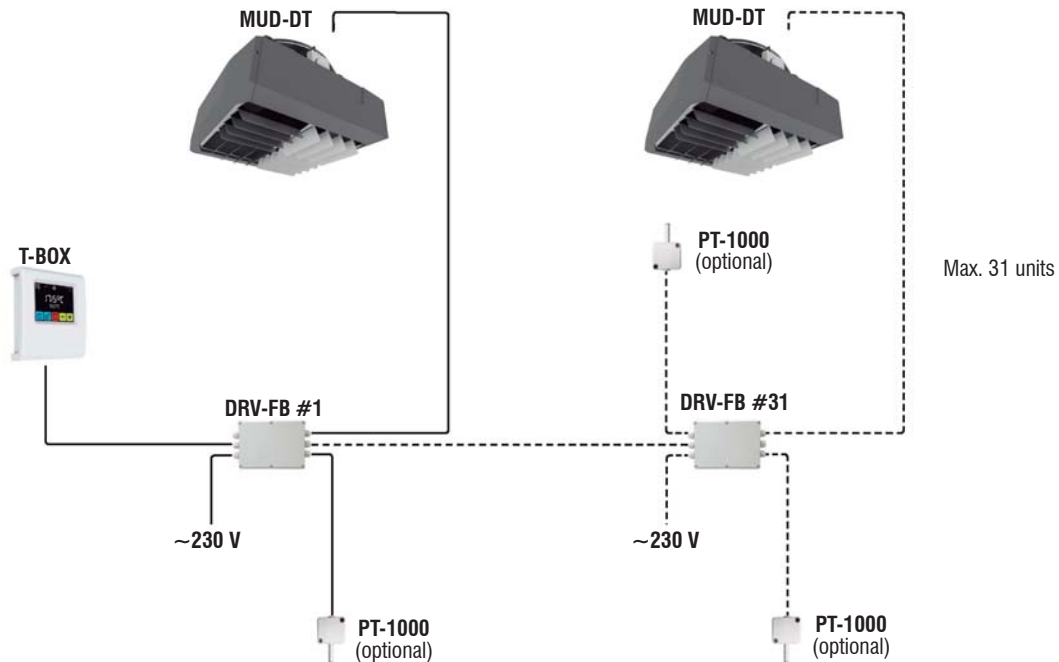


## AIR DESTRATIFIER MUD-DT Series

### EXAMPLE OF CONNECTIONS

#### 1) CONNECTION OF THE T-BOX CENTRAL CONTROL + DRV-DT MODULE + PT-1000 SENSOR + MUD-DT DE-STRATIFIER

To control up to 31 MUD-DT units independently with a single centralized T-BOX control, carry out the following configuration:



#### 2) CONNECTION OF CENTRAL CONTROL T-BOX + DRV-FB MODULE + PT-1000 SENSOR + PT-1000 SENSOR MUAT-FB AIR HEATER + DRV-DT MODULE + MUD-DT DESTRATIFICATOR

To control up to 31 MUAT-FB or MUD-DT units independently with a single centralized T-BOX control, and to be able to carry out the combined operation of the air heaters with the destratifiers, carry out the following configuration:

