

Air destratifiers

DST 1700 - 9100 m³/h



Horizontal installation

Axial fan

PLUS

- » Simple installation
- » Overload cut-out and safety thermostat are standard
- » Adjustable louvers
- » HyBlade® axial fans

The solution for eliminating hot air stratification in industrial environments

In industrial environments characterized by high ceilings and heating with hot air systems, the need to maintain a comfortable temperature at the floor level for the personnel results in the inconvenience of concentrating high-temperature air in the upper part of the area. Therefore, the heat remains trapped and unused near the roof and it is destined to be lost outdoors, thus increasing the building's heat loss.

The DST series air destratifiers eliminate this problem, generating a descending vertical air flow that is able to reduce the difference in temperature of the air between the floor and the ceiling up to a maximum of approximately 3 °C. During the summer months the DST air destratifiers can be used to achieve effective ventilation. They are equipped with a fan drive unit consisting of axial fans and asynchronous, single-phase, and three-phase electric motors depending on the size, with external rotor, which guarantees compatibility with the most recent regulations on limiting energy consumption.

The safety thermostat and the magnetothermic motor protection device with manual reset, installed in the unit as standard equipment, together with the convenient mounting brackets and baffles that can be adjusted to direct the air flow, make installation particularly easy without the use of further accessories.



MAIN COMPONENTS
Fan drive assembly

The axial fan, with Hyblade® type airfoil blades made of aluminum and coated with plastic material, possesses the unique characteristics of both materials: sturdiness and quietness are combined with a highly efficient asynchronous electric motor with external rotor.


Fan stop thermostat

It is installed on the unit and allows the temperature to be set at which the destratifier operation is activated.

Structure

Pre-painted sheet steel structural work equipped with ABS and adjustable aluminum baffles.

RATED TECHNICAL DATA

DST		14	26	36	46	56	66
Fan speed	rpm	1400	900	900	900	900	750
Rated air flow	m ³ /h	1710	3083	4199	7220	8142	9139
Minimum installation height	m	3,00	3,50	4,50	5,00	7,00	6,50
Maximum installation height	m	5,00	5,50	7,00	7,50	9,00	10,0
Power supply	V-ph-Hz	230 - 1 - 50	230 - 1 - 50	400 - 3 - 50	400 - 3 - 50	400 - 3 - 50	400 - 3 - 50
Power input	W	62	110	160	390	418	320
Absorbed current	A	0,30	0,50	0,30	0,70	0,70	0,60
Sound power level	(1) dB(A)	65	68	72	76	78	70

(1) Sound power measured according to standards ISO 3741

DIMENSIONAL DRAWINGS

DST

DST	A	B	C	D	E
	mm	mm	mm	mm	mm
14	460	300	350	300	500
26	560	400	450	400	500
36	660	500	550	500	525
46	760	600	650	600	515
56	860	700	750	700	535
66	960	800	850	800	535