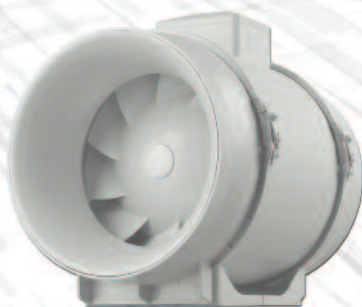
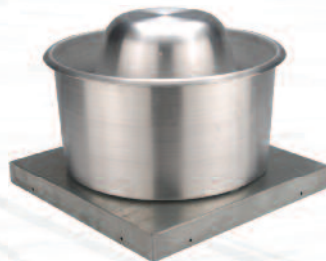


CFMTM
CONTINENTAL FAN

Wholesale Ventilation Products



... better AIRFLOW by DESIGN!

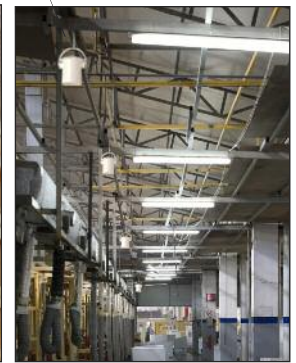
DESTRATIFICATION FANS

DSF DESTRATIFICATION FANS

DSF Destratification Fans force heated or cooled air down to floor level, eliminate temperature layers in the ceiling space, and create a more comfortable environment inside a building. The net result is energy savings, along with maximizing the efficiency of an HVAC system.

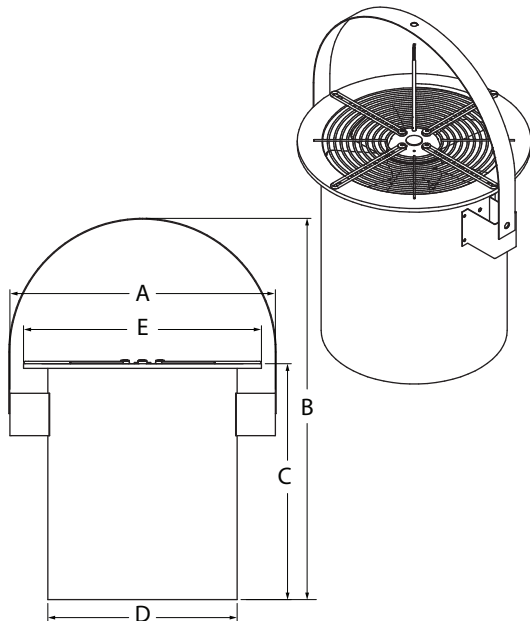
FEATURES & BENEFITS

- Reduce hot & cold spots through the mixing of air in large spaces
- Lower energy costs, increased comfort
- Ideal for any building with ceilings 15' or higher
- Breaks up stratification layers
- Powerful, axial flow fan
- External rotor motor design results in superior motor cooling and durability
- Speed controllable using optional solid state speed control
- Permanently lubricated ball bearing motors for maintenance-free operation
- Automatic reset, thermal overload protection
- 120V, 60 Hz operation
- Steel housing with corrosion resistant finish
- Gripple fasteners supplied for safe mounting
- Rotating mounting bracket permits mounting at any angle
- Maximum permissible ambient temperature: 140 F
- Capacities up to 1,460 cfm; available in 10", 12" and 14" fan sizes



APPLICATIONS

- Big box stores
- Shopping malls
- Warehouses
- Greenhouses
- Athletic facilities
- Grocery stores
- Industrial buildings
- Distribution centers
- Atriums
- Gymnasiums



HOW DO I DETERMINE HOW MANY FANS I NEED?

Air circulation should occur once or twice per hour to maintain a healthy building environment.

Select the fan cfm based on the following ceiling height recommendations:

- 15 ft - 20 ft use 420 cfm fan or model DSF250
- 20 ft - 25 ft use 1055 cfm fan or model DSF300
- 25 ft - up use 1460 cfm fan or model DSF350

To determine the number of DSF fans for a given area, the following information is required:

- $(L \times W \times H) =$ Size of room
- $\text{Size of room} / \text{cfm} / 60 =$ Number of units

Example: a building is 125 ft. long, 75 ft. wide, and 20 ft. high.

- $125 \times 75 \times 20 = 187,500$ cu. ft.
- $187,500 \text{ cu. ft.} / 1055 \text{ cfm (DSF300 Fan)} / 60 = 3$ DSF Fans (round to the nearest whole number)

MODEL	DIMENSIONS IN INCHES*					FAN PERFORMANCE															
	A	B	C	D	E	MODEL	MAX WATTS	MAX AMPS	0"SP RPM	CFM	AIR VELOCITY DEPENDING ON DISTANCE FROM DSF FAN, FPM										
											3ft	6ft	10ft	13ft	15ft	20ft	23ft	25ft	30ft	33ft	35ft
DSF250	15.2	20.2	15.2	10.2	13.4	DSF250	60	0.51	1700	420	378	270	220	156	90	60	20	-	-	-	-
DSF300	17.3	23.9	17.9	12.2	15.4	DSF300	94	0.80	1675	1055	918	594	380	234	162	120	79	38	20	-	-
DSF350	19.2	27.3	20.3	14.2	17.4	DSF350	162	1.38	1685	1460	1100	756	760	468	324	300	217	169	120	59	19

*DO NOT USE FOR CONSTRUCTION

CONSULT FACTORY FOR CERTIFIED PRINTS

PFA PADDLE FAN ADAPTER

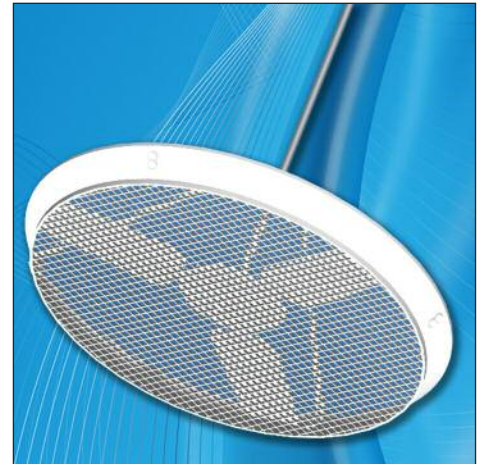
The PFA Paddle Fan Adapter is a cost effective, retrofit product that fits most conventional paddle blade ceiling fans and reduces energy consumption in large spaces. The unique, patented design reduces hot and cold spots by mixing the air and minimizing stratification. In addition to providing energy savings, significantly increased comfort levels can be expected. PFA is available to fit 48 inch and 56 inch ceiling fans.

Many manufacturing and warehouse facilities use ceiling fans to maintain space temperatures. All too often in these environments, warm air will collect near the ceiling in winter and cool, conditioned air will remain near the floor in summer reducing the effectiveness of the ceiling fans.

Applying the PFA directs the airflow to the floor where it will spread and mix with the room. Any stratification layer is minimized and floor to ceiling temperatures become uniform. As a result, occupant comfort is increased and energy savings occur.

FEATURES & BENEFITS

- Ideal for use in high bay manufacturing and warehouse space
- Easily mounts to existing paddle blade ceiling fans
- Significant energy savings
- Increases comfort and productivity
- Flexible design and application, easily re-locate fans as needs change
- 48 and 56 inch kits available
- Patented in US and Canada



APPLICATION CONSIDERATIONS

20-foot ceiling heights

- 48-inch fans are preferred
- One fan per 8,000 sq. ft. of space
- Locate fans in aisles and open spaces

40-foot ceiling heights

- 56-inch fans are preferred
- One fan per 12,000 sq. ft. of space
- Locate fans in aisles and open spaces

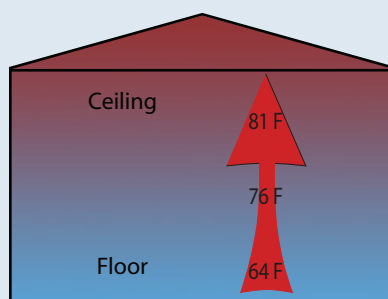
CHALLENGES OF HEATING & COOLING

During the heating season, warm, heated air naturally rises to the ceiling posing a challenge for any building with high ceilings. For example, if a ceiling is 20 feet high, there can be a 10 to 20 degree variance in temperature from the floor to the ceiling. On average, a buildings' temperature increases between .5 and 1 degree F for each elevated foot as heat rises to the ceiling.

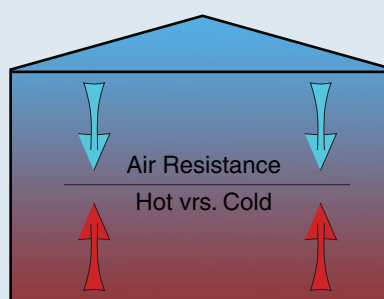
During the cooling season, cold air-conditioned air is often exiting through diffusers located at ceiling level. This air is met with resistance by the hot air rising from the floor level, forcing air-conditioning units to work harder, ultimately wasting energy trying to keep up with the cooling demand.

SOLUTION

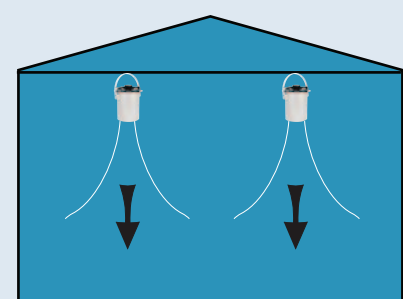
Installing destratification fans near the ceiling registers helps push that heated or cooled air down to the floor level, ultimately creating a more comfortable environment inside the building. The overall effect is energy savings along with maximized efficiency of the HVAC system.



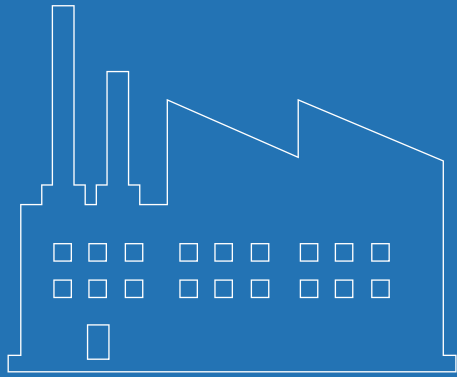
Heating challenges



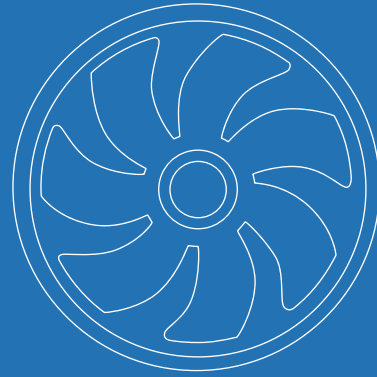
Cooling challenges



Conditioned air utilizing DSF fans



***Industrial Fans
& Blowers***



***OEM Solutions
& Custom Fans***



***Commercial Fans
& Dampers***



***Residential Fans &
Air Purifiers***



Wholesale Ventilation Products

Continental Fan Manufacturing Inc.
203 Eggert Road
Buffalo, New York 14215

Continental Fan Canada Inc.
12-205 Matheson Blvd. E
Mississauga, Ontario L4Z 3E3

Continental Fan Manufacturing Inc.
6274 Executive Blvd.
Dayton, Ohio 45424

1-800-779-4021 • www.continentalfan.com

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