

# DESTRATIFICATION FANS

## CMX HVLS FANS

### Features & Benefits

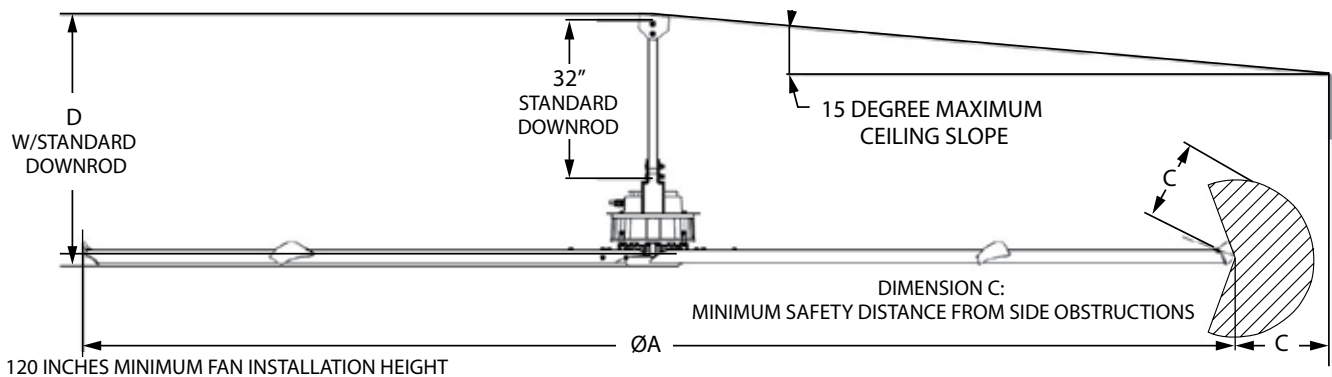
- High efficiency EC brushless motor, continuous duty operation
- Robust steel structure for long life
- Virtually silent, 5-blade aluminum airfoils
- Corrosion resistant, anodized aluminum airfoil design
- Plastic, aerodynamically-shaped blade terminals
- Optimized performance and acoustic comfort
- Security wire, stabilizing cables and hub ring for safety
- 200-240Vac or 400-480Vac, 50/60 Hz, 3 phase operation
- Speed controllable
- Maintenance-free, gearless motor
- Maximum permissible ambient temperature: 120 F
- Integrated EMC (electromagnetic interference) filters
- Easily clean with low pressure water jets

### Accessories

- Downrod (32" standard)
- I-beam mounting kit
- Glulam mounting kit
- Z purlin brackets
- Potentiometer speed control
- Smart touch controller



CMX HVLS Fans are designed to redistribute heated or cooled air to floor level. These high volume, low speed fans eliminate temperature layers in the ceiling space and create a more comfortable environment inside a building. When a CMX Fan is integrated with an HVAC system, the net result is energy savings and CO2 emission reduction.



IP65 motor protection

MODEL	PERFORMANCE					
	MAX RPM	MAX SERVICED DIA. (ft)	SOUND <sup>(1)</sup> Lp dBA	HP	MAX CURRENT (amps)	MINIMUM CIRCUIT SIZE
CMX-10	130	98	55	1.1	3.8	10A@200-240V, 3Ø 10A@400-480V, 3Ø
CMX-12	85	117	52	0.8	2.6	
CMX-14	80	136	55	0.9	2.7	
CMX-16	70	156	56	1.1	3.5	
CMX-18	63	176	49	1.2	3.6	
CMX-20	55	195	50	1.2	3.7	
CMX-24	51	234	55	1.6	4.8	

DIMENSIONS			
ØA (ft)	C (ft)	D (in.)	WT (lbs)
10	1.2	49	176
12	1.5	49	194
14	1.5	50	220
16	1.8	50	234
18	1.8	51	249
20	1.8	51	260
24	1.8	51	282

@240V/60Hz supply, max speed

<sup>(1)</sup>Sound testing taken with the sensor 1.5 m above the floor and 6 m from the center of the fan at 5 m high, measured in a laboratory environment. Actual results in field conditions may vary due to sound reflecting surfaces and environmental conditions.

\*DO NOT USE FOR CONSTRUCTION  
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### NFPA 13 Standards for HVLS Fans

- Maximum allowable fan diameter of 24 feet.
- Fans must be approximately centered between four adjacent sprinklers.
- There must be a 3 foot minimum clearance from the sprinkler deflector to the fan.
- Fans must be interlocked to shut down immediately upon receiving a water flow signal from the fire alarm system.

## DSF DESTRATIFICATION FANS

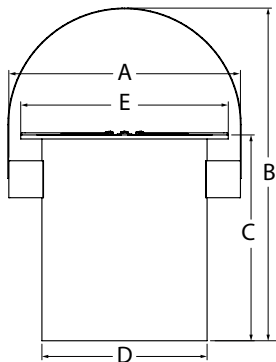


DSF Destratification Fans force heated or cooled air down to floor level, eliminate temperature layers in the ceiling space, and create a more comfortable environment inside a building. The net result is energy savings, along with maximizing the efficiency of an HVAC system.

### Features & Benefits

- Reduce hot and 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" & 14" fan sizes

See Destratification Fan Application Guide for more information



### 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 x W x H) = Size of room
- Size of room / 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)

#### DIMENSIONS IN INCHES\*

MODEL	A	B	C	D	E
DSF250	15.2	20.2	15.2	10.2	13.4
DSF300	17.3	23.9	17.9	12.2	15.4
DSF350	19.2	27.3	20.3	14.2	17.4

\*DO NOT USE FOR CONSTRUCTION

#### FAN PERFORMANCE

MAX WATTS	MAX AMPS	RPM	CFM 0" SP	AIR VELOCITY DEPENDING ON DISTANCE FROM DSF FAN, RPM											
				3ft	6ft	10ft	13ft	15ft	20ft	23ft	25ft	30ft	33ft	35ft	
60	0.51	1700	420	378	270	220	156	90	60	20	-	-	-	-	
94	0.80	1675	1055	918	594	380	234	162	120	79	38	20	-	-	
162	1.38	1685	1460	1100	756	760	468	324	300	217	169	120	59	19	

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## CMX & DSF Fan Applications

### Commercial

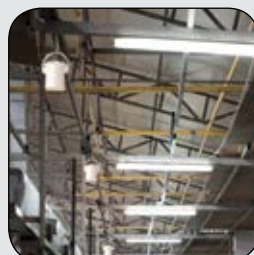
- Gymnasiums
- Showrooms
- Big box stores
- Schools

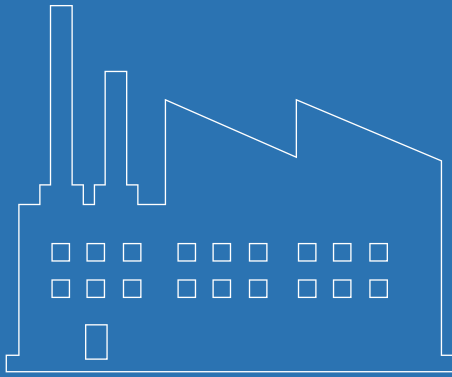
### Industrial

- Warehouses
- Distribution centers
- Cold storage
- Airport hangars

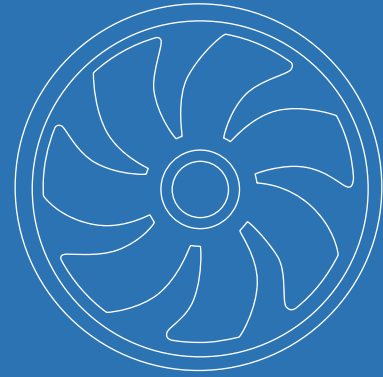
### Agriculture

- Dairy barns
- Horse stables
- Greenhouses
- Produce farms





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