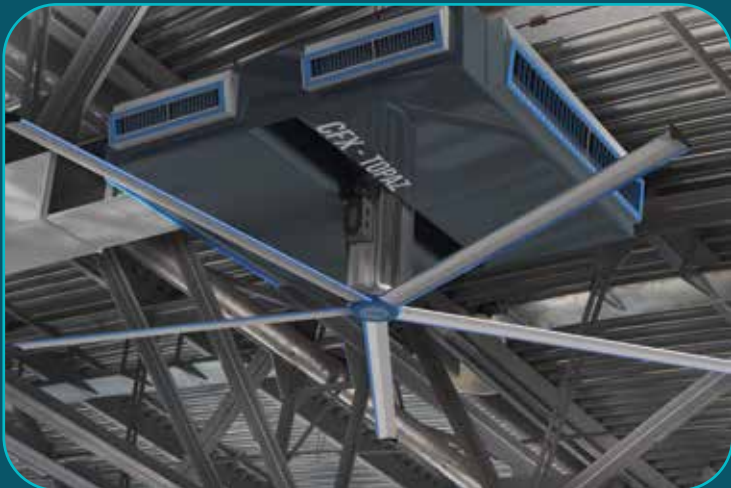




# CFX - TOPAZ



## CFX-TOPAZ – An Innovation in Air Cooling Industry

- ◆ The CFX - TOPAZ has been built to create a very cool environment void of impurities and microclimates through a means of venting that provides a gentle breeze and better air displacement which results in a fresher and healthy environment.
- ◆ The innovative blades of Chopper Fan facilitates the speed of air flow by a means of making it transcend the steps at the point where the pressure instantly dwindles, providing for a noteworthy increase in impact and air movement.
- ◆ Dual CFX - TOPAZ diffusers are specially built to equally circulate filtered, conditioned and purified air into the specific air distribution pattern of the Chopper Fan (16, 20, & 24ft). It comprises of a closed-cell thermal insulation pattern with a polyvinyl chloride housing to prevent/minimize condensation outside the entire unit.
- ◆ CFX - TOPAZ diffusers have been fabricated with the internal symmetrically which divide the entry of conditioned air and the modifiable stepped CFX - TOPAZ vented louvers are as well-structured in the same vein to circulate the air across the total circumference of the 5-blade fan blade design. The diffusers contain bottom perforations that are fabricated to dispense air spread in the middle.

## Transform your facility to a pool of cool with Chopper Fan & CFX - TOPAZ Diffuser system

Chopper Fan & CFX - TOPAZ Diffuser system is a remarkable innovation system invented to efficiently find cool unconditioned space within a building, factory, warehouse or big retail centers by circulating tempered conditioned air via the dispenser which is evenly dispersed over the Fan blades to provide facilities of various sorts a cost-effective means of spot cooling in other to keep businesses operating at a maximum capacity. Turn your work space into a pool of cool.

Fan Diameter	Destratification Coverage	Max Cooling Diameter	Spacing Between Fans	Minimum Spacing From Wall	Clearance From Ceiling
16 Foot	90 FT	80 FT	90 FT	16 FT	5.5 FT
20 Foot	120 FT	100 FT	120 FT	20 FT	5.5 FT
24 Foot	150 FT	110 FT	150 FT	24 FT	5.5 FT

\*Specs based on using of Industrial Cooler, for AC Chiller coverage enquire.

## Features

### Blade & Hub Design

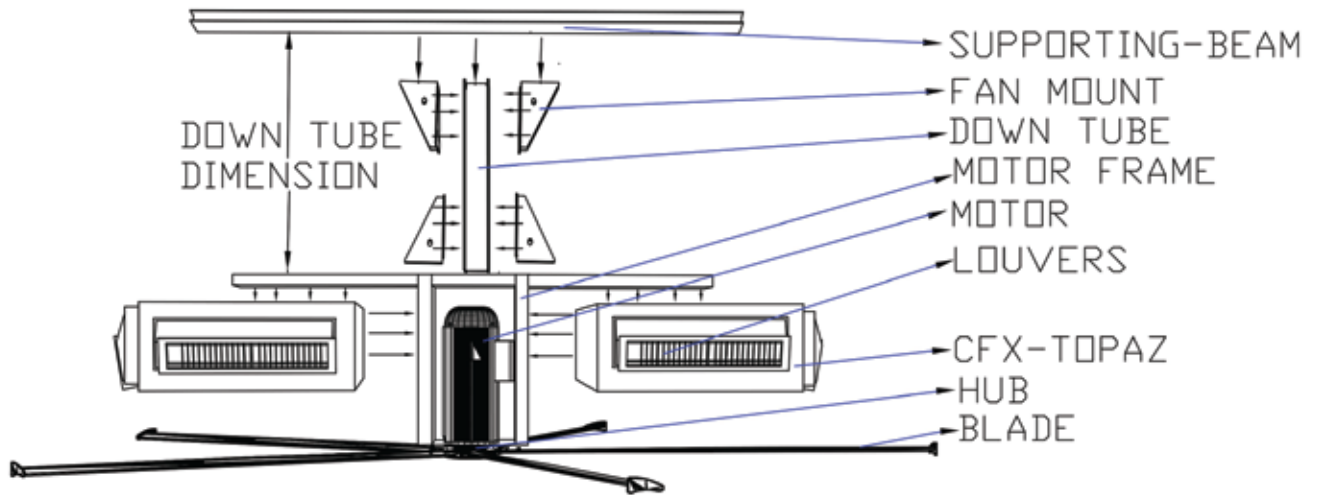
- ◆ Chopper Fan blades design with 20 degree plus pitch.
- ◆ Symmetrical Chopper Fan blade style provides for true reversibility for an all year-round practice.
- ◆ Pitch hub design with an equal like 20 degree plus pitch as the blade.

### Motor

- ◆ Our motor employs cast iron casing with a specific shaft and gear alignment which has a great deal of bearing capacity.
- ◆ Lone casing block in which all bearing points are integrated. None of the sealing faces are affected by lateral forces or torque.
- ◆ IP55; 120/230/460/575v; single and triple phase are available.

### Controller

- ◆ Features an Open-platform controller from reputed brand.
- ◆ The Ac Driver Model Reduced start currents result in smaller fuses, cables and energy bills.
- ◆ Torque can be boosted to overcome initial peak loads.
- ◆ Integrated vector braking ensures quick and controlled stops.
- ◆ Increasing productivity and safety.
- ◆ Programmable acceleration and deceleration curves.



### CFX - TOPAZ Diffuser

- ◆ Tremendous design fashioned to complement the design of the Chopper Fan blades
- ◆ Design with specific air distribution across all 5 Chopper Fan blades
- ◆ Internal insulation to prevent/minimize condensation on outside of diffuser

### Diffuser

- ◆ Custom built air distribution across all 5 blades.
- ◆ To prevent and minimize condensation on the outside of the diffusers, Internal insulation is installed and congaed for 16 inches round ducting.
- ◆ Provides for up to 20-ton capacity.

### Controller

- ◆ Streamline facility management systems
- ◆ Simple +24 VDC connection to pre-existing alarm and security systems
- ◆ Up to 5 to 10 fans can be controlled from just one controller, optional.

### Advantages

The Blade & Hub Design has numerous benefits that includes,

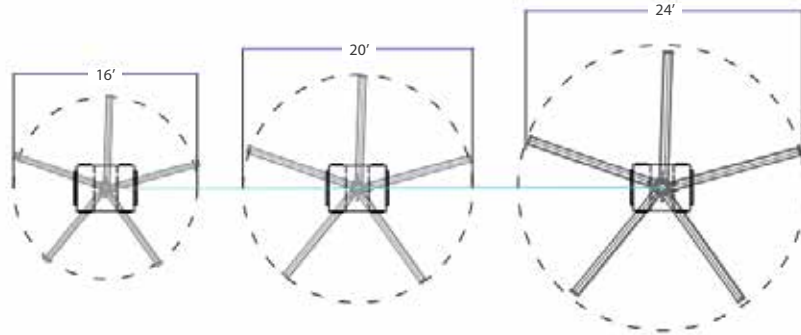
- ◆ Coverage area increases by over 30% when compared to other HVLS fans
- ◆ Wind chills were not created when the CFX - TOPAZ Fan is used in reverse mode
- ◆ Air-flow dead zone beneath the fan is eliminated
- ◆ There is provision to modify the Chopper Fan to the best fit for your facility

Fan Diameter	16FT	20FT	24FT
Fan Weight with CFX-TOPAZ	209kg +/-	238kg +/-	238kg +/-
Nominal Motor	1.5 HP (1.1kw)	2 HP (1.5kw)	2 HP (1.5kw)
Nominal RPM	65-73	55-63	45-57
Air Movement (CFM)	229000	300000	377000
Max. Destratification Coverage	90 FT	120 FT	150 FT
Max. Cooling Diameter	80 FT	100 FT	110 FT
Torque	240 -lbs.	377 -lbs.	377 -lbs
Power Consumption	989 W	1449 W	1449 W
Nominal Amperage (230v)	4.3 6.3	6.3	6.3
Nominal Amperage (460v)	2.15	3.15	3.15

\*Specs based on using of Industrial Cooler, for AC Chiller coverage enquire.

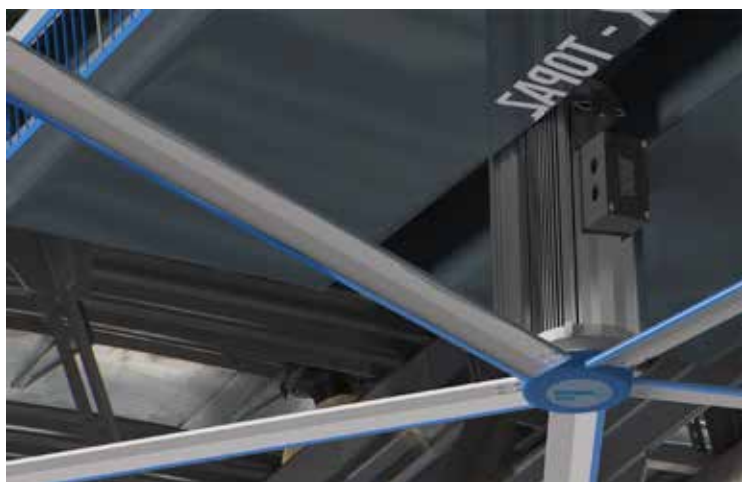
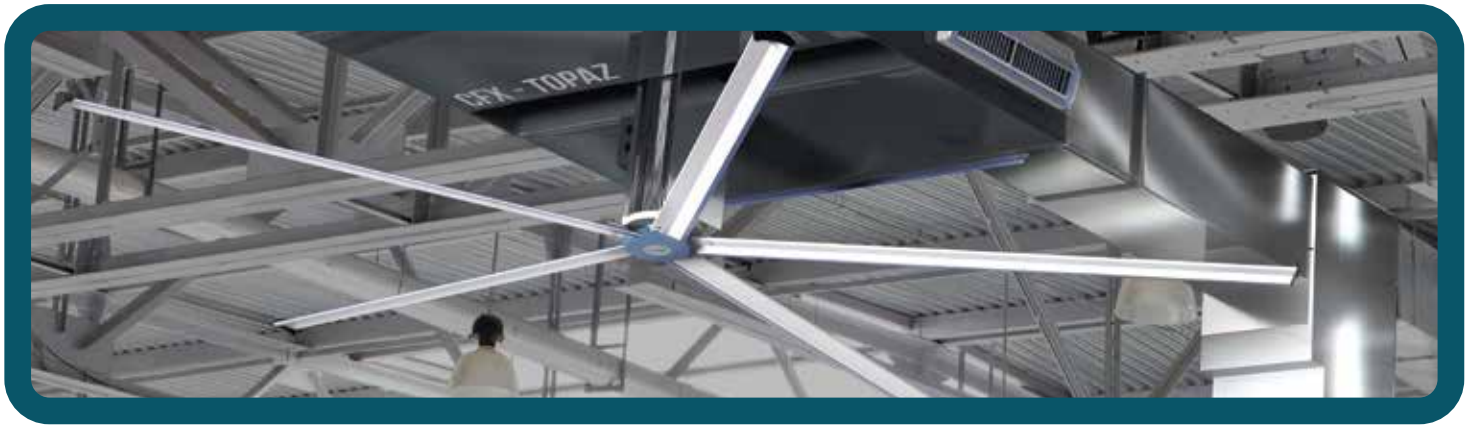
## Installation

- ◆ The Safety ring features a ¼ inch powder coated resilient steel
- ◆ The Safety cables feature a 5/16 inch stainless steel aircraft cable
- ◆ The Guy wires feature a 1/8 inch stainless steel aircraft cable (with 4ft down tubes)
- ◆ There's an eternal warranty on blades, hub and mounting system
- ◆ Motor, gearbox and hub has a 2-year warranty provision



## ORDERING INFORMATION

Brand	Model	Blades	Diameter (ft)	Motor	Voltage	Phase	Mount	Controller
Chopper Fan	CFX-TOPAZ	5	16	NMSTD	120	1(single)	STD	VFD
			20		230	3(Three)	XL	
			24		460			



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