

ENTREMATI^C

I-CLASS™ INDUSTRIAL HVLS FAN

PRODUCT SPECIFICATIONS

HIGH VOLUME LOW SPEED FAN



Design Highlights

- Optimized 5-blade profile for low speed rotary airfoil application and near ground effect
- Large “Air Current Depth” - horizontal floor jet of 3-9 ft (1-3 m)
- NACA airfoil profile reduces drag while producing more airflow
- Contributes to LEED® Certification credits and qualifies for most energy rebate programs
- Standard black corrosion-resistant anodized blades
- Fan Safety System incorporates steel hub, aircraft-grade safety cable and guy wires
- Patent pending aluminum hub and blade support system
- High efficiency Variable Frequency Drive (VFD)
- Less than 55 dBA*
- Adjustable speed control panel with forward/off/reverse switch, self-diagnostics and 4 digit pass code protection
- Aerodynamic blade winglets with patent-pending design
- Supplied with 25 feet of Power Cable pre-wired to fan motor (connection to power source by others)
- Fused disconnect and line reactor standard
- Patented facility fire system compatibility (can be daisy chained)
- ETL / UL 507 Approved (Entire Fan)

*Results of sound measurement in the field may vary due to variations in surface types, environment and conditions.

Motor Size

- 1 HP (All Blade Sizes except 24FT)
- 2 HP (24 FT/7.3 M Blades Only)

Fan Diameter

- 8 FT (2.4 M)
- 10 FT (3.0 M)
- 12 FT (3.7 M)
- 14 FT (4.3 M)
- 16 FT (4.9 M)
- 18 FT (5.5 M)
- 20 FT (6.1 M)
- 24 FT (7.3 M)

Available Options

- Mounting Extension _____ FT / M
- Extra Wide Beam Plate _____ FT / M
- Powder Coated Blades _____
- Custom Powder Coated Frame & Mount
- Custom Color Winglets
- Custom Logo on Hub Cover
- Fire Control Panel (Standard & Networked Fans)
- NEMA 4X VFD Enclosure
- NEMA 4X Remote Enclosure
- Temperature Control (Standard Fan)
- Multiple Fan Remote (2, 3, or 4)
- BMS Integration (BACnet / Modbus)
- Corrosion Resistant Package (Consult Factory)
- Explosion Proof Motor (Consult Factory)

Project Information

Job Name _____
Address _____
General Contractor _____
Distributor _____
Model _____ Quantity _____ Voltage/Phase _____

Certified For Construction

By _____
Company _____
Address _____
Date _____

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Construction	
Frame	Black Powder Coat / Welded Steel Fabrication
Hub Assembly	6061-T6 Aluminum
Blade Struts (Invertible)	Clear Zinc / High Tensile Steel
Blades	Anodized / 6063-T6 Aluminum
Blade End Winglets	Aluminum 3003-H14

Safety Components	
Steel Hub Plate	
Safety Cable	Galvanized 1/4" x 7 x 19 Steel Aircraft Grade Cable
Guy Wires	Galvanized 1/8" x 7 x 19 Steel Aircraft Grade Cable
Rotor Retaining Ring	Zinc Plated / 3/16 A569 Steel

Mounting Hardware	
Standard Mount	Universal I-Beam Clamp w/ Swivel Joint & 12" Drop
Laminated Wood Beam Clamp (Optional)	Brackets
Extra Wide / Thick I-Beam Mount (Optional)	Consult Factory
Additional Drop Extensions (Optional)	Up to 10 FT in 1 FT Increments

Source Voltage	
Standard Power	208-230V 1Ø or 3Ø, 460-480V, 575V 3Ø
Optional Power	120V (Not available on 24 ft diameter)

Gearbox and Motor	
Enclosure / Insulation Class / Efficiency Class	IP55 / F / 1E2
Type	2-Stage Helical
Service Interval	Lubed For Life

VFD Assembly	
Enclosure	NEMA 1
Remote CAT 5E Cable	1 - 100 Feet / 30.48 Meters
50hz Operation (Optional)	(Not included with iFAN™ option)
Disconnect	Panel Mount, UL/CE
UL Certified	
Line Reactor & Internal Fusing Included	

Fan Control Station	
Type	Touchscreen LCD
Connection	CAT 5E (provided)
Mounting	STD Wall J-Box

Warranty	
Lifetime Warranty on Blades, Hub & Frame	
15-Year Non Pro Rated	
1-Year Labor	

Fan Size	Hanging Weight	Normal Industrial Spacing	RPM
8 FT 1 HP	160 lbs. [73 kg]	55 feet	174
10 FT 1 HP	181 lbs. [82 kg]	60 feet	122
12 FT 1 HP	190 lbs. [86 kg]	65 feet	114
14 FT 1 HP	194 lbs. [86 kg]	70 feet	87
16 FT 1 HP	215 lbs. [94 kg]	90 feet	80
18 FT 1 HP	224 lbs. [101 kg]	95 feet	70
20 FT 1 HP	232 lbs. [105 kg]	100 feet	60
24 FT 2 HP	258 lbs. [107 kg]	110 feet	58

NOTICE

For more complete information on the application, proper use, maintenance and warranties for this product, please go to www.entrematicfans.com.

