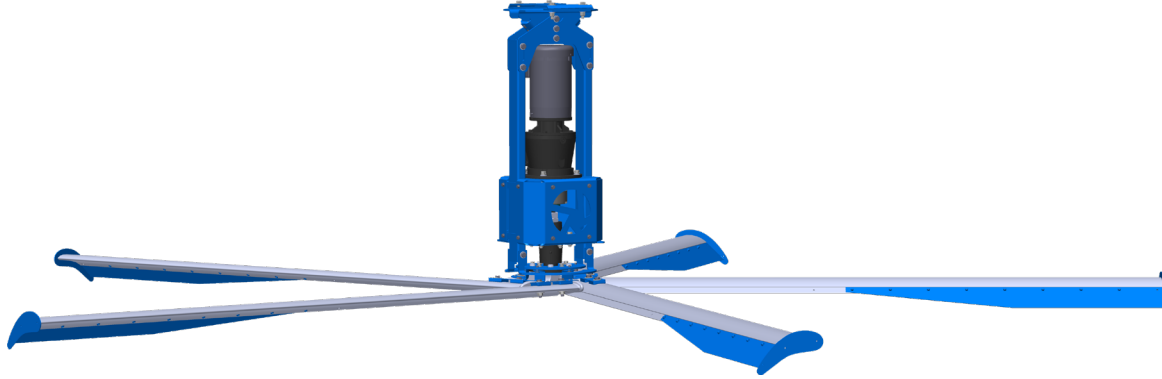


# HIGH-5 HVLS CEILING FAN

## TECHNICAL SPECIFICATIONS



### TYPICAL APPLICATIONS:

- Manufacturing
- Distribution Centers
- Aviation
- Agriculture
- Government
- Warehouses

## LOW-ON-COST, HIGH-ON-PERFORMANCE DESIGN FEATURES

- **Industrial-Grade:** motor and gearbox
- **5 Blades:** contoured for maximum air movement
- **Safety System:** multiple tiers of protection perfect for the rough industrial environment
- **Modular Components:** service can be easily performed on a mounted fan
- **Wingtips and Flaps:** produce more CFM at a lower RPM and direct airflow downward
- **Custom Ground Helical-Cut Gears:** quiet and durable operation
- **Double Lip Seals:** prevent any potential oil leakage
- **Vented and Lubricated for Life:** premium grade lubricant designed for gears operating under severe temperature and load conditions

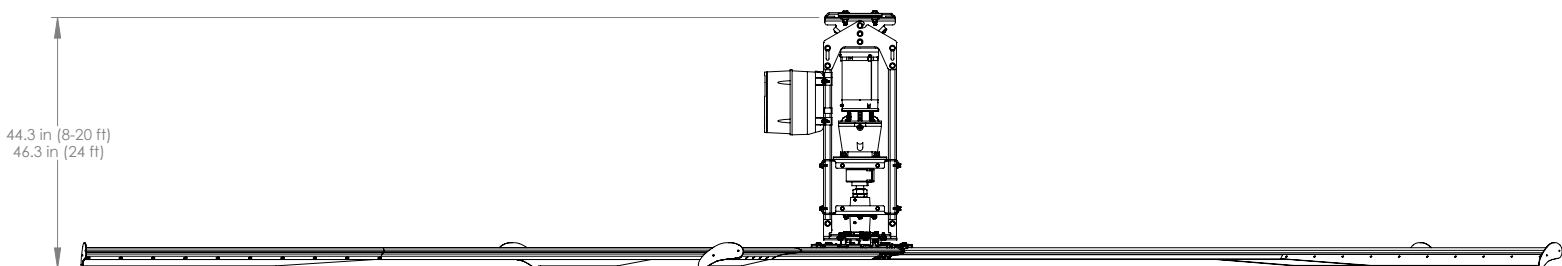
## TECHNICAL SPECIFICATIONS

Diameter	8ft	10ft	12ft	14ft	16ft	18ft	20ft	24ft
Number of Blades	5							
Industrial Spacing	50 ft (15.2 m)	60 ft (18.3 m)	65 ft (19.8 m)	70 ft (21.3 m)	85 ft (25.9 m)	90 ft (27.4 m)	95 ft (28.9 m)	100 ft (30.5 m)
Max Effective Area	4060 ft <sup>2</sup> (377 m <sup>2</sup> )	6850 ft <sup>2</sup> (636 m <sup>2</sup> )	9425 ft <sup>2</sup> (875 m <sup>2</sup> )	12035 ft <sup>2</sup> (1118 m <sup>2</sup> )	13915 ft <sup>2</sup> (1292 m <sup>2</sup> )	16218 ft <sup>2</sup> (1506 m <sup>2</sup> )	17607 ft <sup>2</sup> (1635 m <sup>2</sup> )	20000 ft <sup>2</sup> (1858 m <sup>2</sup> )

Max RPM	110 RPM	87 RPM	77 RPM	64 RPM	59 RPM	46 RPM	41 RPM	40 RPM	
Est. CFM @ Max RPM	67,178	101,639	137,395	161,345	186,692	209,259	231,031	400,867	
Hanging Weight	227 lbs (103 kg)	239 lbs (108 kg)	251 lbs (114 kg)	263 lbs (119 kg)	275 lbs (125 kg)	282 lbs (128 kg)	294 lbs (133 kg)	387 lbs (175 kg)	
Fan Height	44.3 in (112.5 cm)							46.3 (117.6 cm)	

Motor	1 hp (0.75 kW)	2 hp (1.5 kW)
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Voltage	Max Amp Draw / Required Breaker							
100-120V Single Phase	16.3 A / 25 A	16.3 A / 25 A	15.5 A / 25 A	15.0 A / 25 A	15.0 A / 25 A	15.0 A / 25 A	15.9 A / 25 A	N/A
208-240V Single Phase	8.2 A / 15 A	8.2 A / 15 A	7.8 A / 15 A	7.5 A / 15 A	7.5 A / 15 A	7.5 A / 15 A	8.0 A / 15 A	N/A
208-240V Three Phase	3.7 A / 10 A	3.7 A / 10 A	3.5 A / 10 A	3.4 A / 10 A	3.4 A / 10 A	3.4 A / 10 A	3.6 A / 10 A	5.8 A / 15 A
480V Three Phase	1.8 A / 10 A	1.8 A / 10 A	1.7 A / 10 A	1.6 A / 10 A	1.6 A / 10 A	1.6 A / 10 A	1.7 A / 10 A	2.7 A / 10 A



# HIGH-5 HVLS CEILING FAN

## TECHNICAL SPECIFICATIONS

### CONSTRUCTION

<b>Frame</b>	Powder Coated Welded Steel
<b>Hub Assembly</b>	Cast Aluminum
<b>Blades</b>	Aircraft Grade Anodized Extruded Aluminum
<b>Wingtips and Flaps</b>	Powder Coated Steel
<b>Safety Features</b>	Safety Cables on the Mount, Blade Safety Straps, Hub Safety Disc

### CONTROL

- Variable Frequency Drive
- NEMA 4X enclosure to withstand harsh industrial environments
- Allows for remote mounting of keypad (up to 330 feet) for centralized control using Cat6 Cable
- Easily connects to other drives for daisy chaining configurations
- Multiple faults and alarms designed to protect the fan motor and gearbox
- Fault tracing capabilities to diagnose issues
- Simple connection to facility fire suppression systems (where required)
- Adaptable and expandable to nearly any engineered fan solution
- Fieldbus connection via optional modules for integration into building management systems with the following protocols:

PROFIBUS DP	CANopen®	BACnet™
DeviceNet™	Modbus RTU & Modbus TCP	EtherNet/IP™
Profinet	EtherCAT®	LonWorks®



#### KEYPAD FEATURES (3-PHASE ONLY)

- Fully backlit LCD display
- Real-time monitoring of fan RPMs, motor amps, and motor torque
- Large keys for easy manipulation of fan speed or direction
- One-touch toggling of remote or local drive control
- Lockable keypad enclosure for managerial control

### AVAILABLE OPTIONS AND MOUNTINGS

- Custom colors
- 4 tiers of installation services
- Down rod extensions up to 10', in 1' increments to suit site layout and requirements
- Bar joist beams mount in 5 ft and 6 ft, center to center

### WARRANTY

**15-Year Limited Warranty:** your choice of installer and still maintain the warranty

### INSTALLATION AND MAINTENANCE

Complete installation and maintenance instructions accompany the product and can be found on our website.  
[www.pattersonfan.com/installation-services-and-guides](http://www.pattersonfan.com/installation-services-and-guides)

*In the interests of development and improvement of the product, we reserve the right to change the specification.*