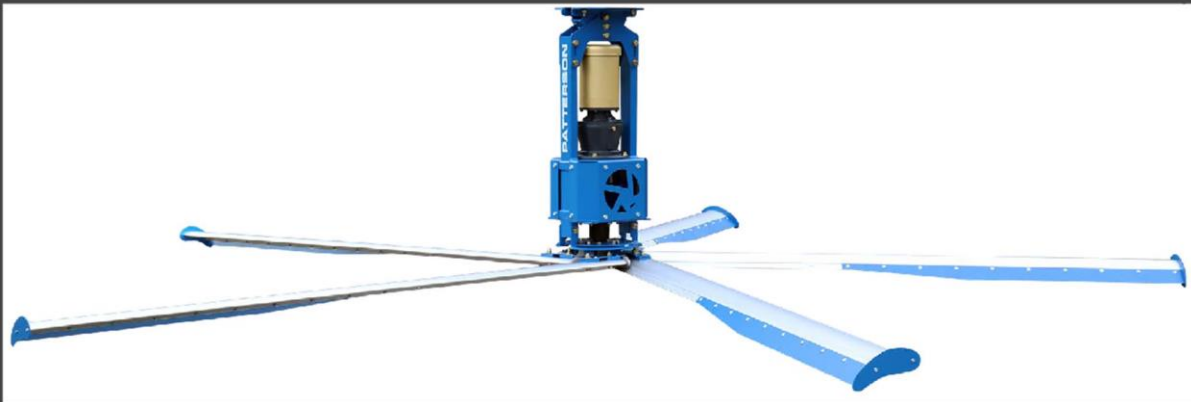




HIGH-5

GEAR-DRIVEN HVLS CEILING



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 ² (377 m ²) | 6850 ft ² (636 m ²) | 9425 ft ² (875 m ²) | 12035 ft ² (1118 m ²) | 13915 ft ² (1292 m ²) | 16218 ft ² (1506 m ²) | 17607 ft ² (1635 m ²) | 20000 ft ² (1858 m ²) |

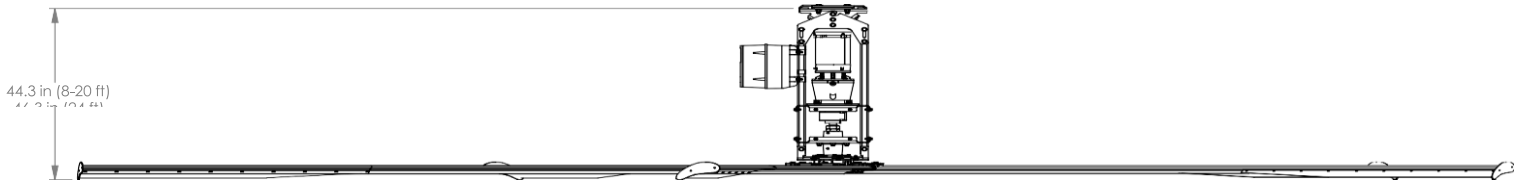
| | | | | | | | | |
|----------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Max RPM | 110 RPM | 87 RPM | 77 RPM | 64 RPM | 59 RPM | 46 RPM | 41 RPM | 40 RPM |
| 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) |
|-------|----------------|--|--|--|--|--|--|---------------|

| 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 |
| 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 | 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 |



The Authority in Air Movement





HIGH-5

GEAR-DRIVEN HVLS CEILING



CONSTRUCTION

| | |
|---------------------------|------------------------------------------------------------------|
| Frame | Powder Coated Welded Steel |
| Hub Assembly | Cast Aluminum |
| Blades | Aircraft Grade Anodized Extruded Aluminum |
| Wingtips and Flaps | Powder Coated Steel |
| Safety Features | 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
- Optional factory-installed modules are available for Fieldbus connection 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.acleansystem.com/high-volume-fans/

Additionally, ACS can custom paint the tips of the fan to other colors and match the color scheme of the stations!

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

