



J&D
Manufacturing

Recirculation Fan

PERMANENT MAGNET DIRECT DRIVE PANEL FAN

How can *you* benefit from the **PM Panel Fans?**



BEST FREIGHT EFFICIENCY

- Get up to 99 fans on each truck
- Ships fully assembled & ready to install



HIGHEST PERFORMANCE

- **40,500 thrust CFM**
- Perfect fan for minimum winter & maximum summer ventilation
- 61.4 thrust CFM/Watt @ 50% speed



MAINTENANCE FREE

- No belts, pulleys tensioners, bearings, or gears
- Rugged, corrosion-resistant housing
- Durable, rust-free hardware



BEST ENERGY EFFICIENCY

- Variable speed
- Precise & uniform speed control
- Decrease power usage by slowing fan down to increase thrust CFM/Watt

Shipping & Mounting

Shipping

The PM Panel Fan is shipped fully assembled, and they're arranged in such a way to reduce shipping costs.

Full Trucks

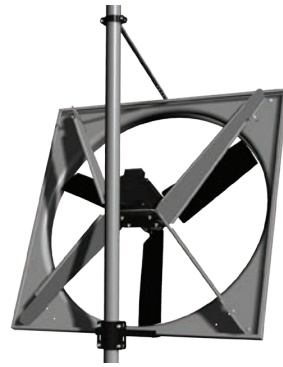
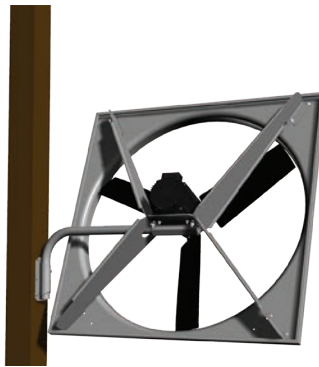
- 50" = 99 Fans per Truck
- 55" = 50 Fans per Truck
- 60" = 45 Fans per Truck



Up to
99 Fans
per Truck!

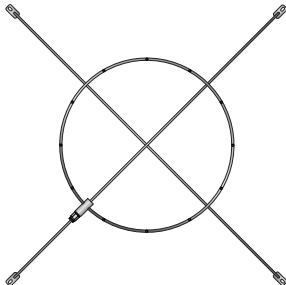
Multiple Mounting Options & Additional Accessories

J&D's PM Panel Fans can be mounted to posts, round columns, square columns, or be suspended by chains from the ceiling. Order the mounting bracket or chain kits that will best fit your needs.



Increase cooling capabilities with a 12-Nozzle, stainless steel High Pressure Fog Ring kit!

SS3012



PM Panel Fan

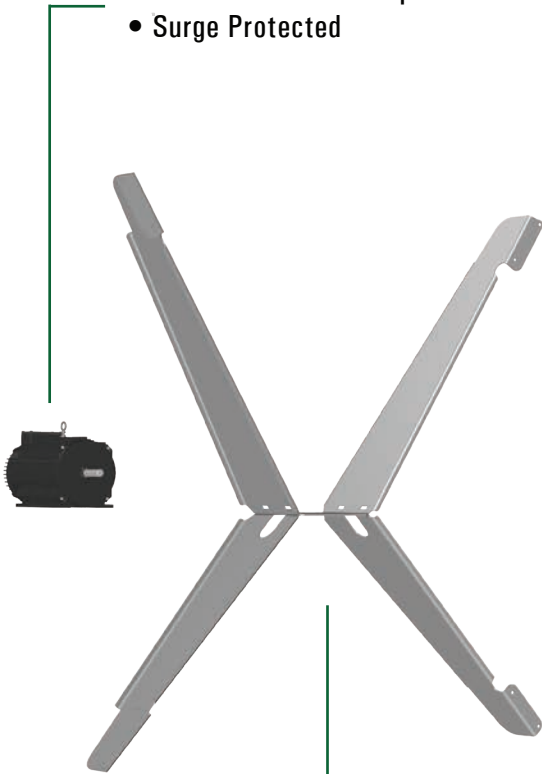
Available in 50", 55", & 60"

PM Direct Drive Motor

- Premium-efficient 2.2kW motor
- Internal Motor Drive
 - Soft Start
 - Variable speed
 - Precise & uniform speed control
- Surge Protected
- IP65 Rated
- Industrial extruded aluminum housing
- Will not interfere with RFID
- Pre-wired with 8' line power cord & 8' signal cord

Prop

- 3 Glass filled poly composite blades for durability
- Die cast aluminum hub
- Airfoil profile
- Optimally pitched for increased performance



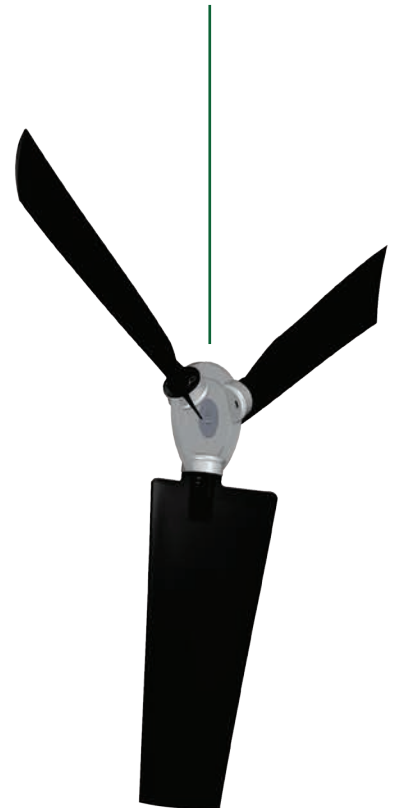
Motor Frame

- Motor-centric with minimal air impedance
- Superior strength & rigidity to minimize vibration



Housing

- Precisely spun for uniformity
- 10-Gauge, G90 Galvanized Steel



What is the **JD-Drive**?



JD-Drive Motor

- It is a permanent magnet, direct-drive, electronically commutated motor with **INTERNAL ONBOARD DRIVER**.
- The internal onboard driver allows the motor to **START SOFT**, so it does not get a huge surge of power when it is turned on. This will increase motor longevity and reduce wear and tear.
- The JD-Drive converts AC (alternating current) power to DC (direct current) power. This means you can run the motor at a slower speed and it will not heat up. It also will provide very **HIGH TORQUE**.
- A software-driven, intelligent, **VARIABLE SPEED** motor.

How is the JD-Drive different?

| | *SIM | JD Drive Motor |
|---------------------------------|-------|----------------|
| Efficiency – Across speed range | ● | ● ● ● ● ● ● |
| Power Density | ● ● ● | ● ● ● ● ● ● |
| Reliability | ● ● ● | ● ● ● ● ● |
| Operating Capability | ● | ● ● ● ● ● ● |

*SIM = Standard Induction Motor

Advantages of the JD-Drive

- IP-65 Rated
- Motor made in the U.S.A. with **NO RARE EARTH MATERIALS**
- Surge protected
- Will not interfere with RFID
- Works like cruise control - it adjusts to static pressures to stay at set speeds

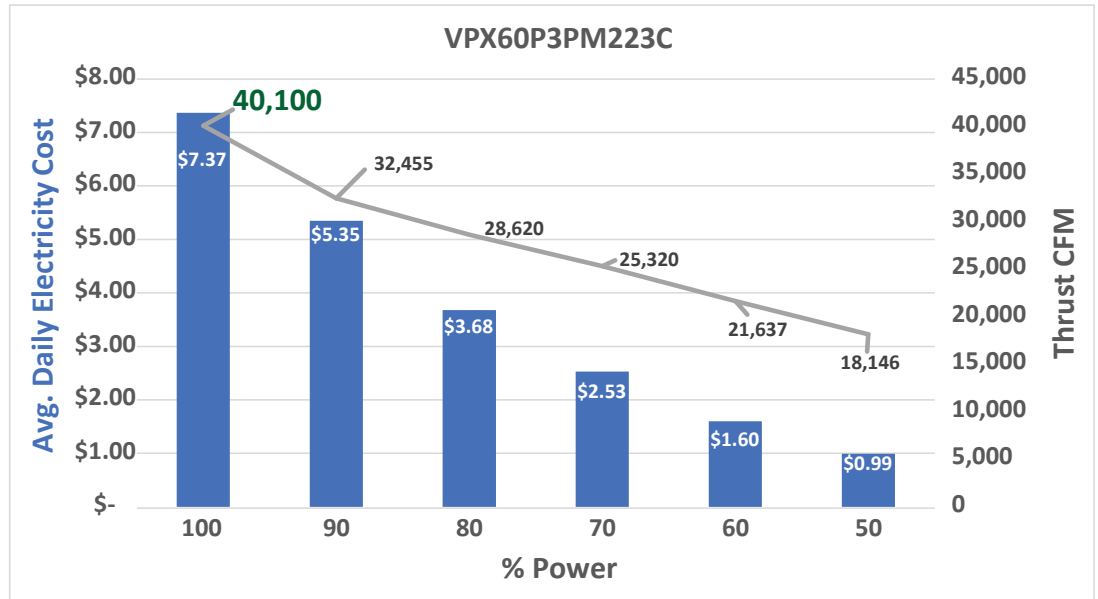


No VFD Required!

Proven Performance Data

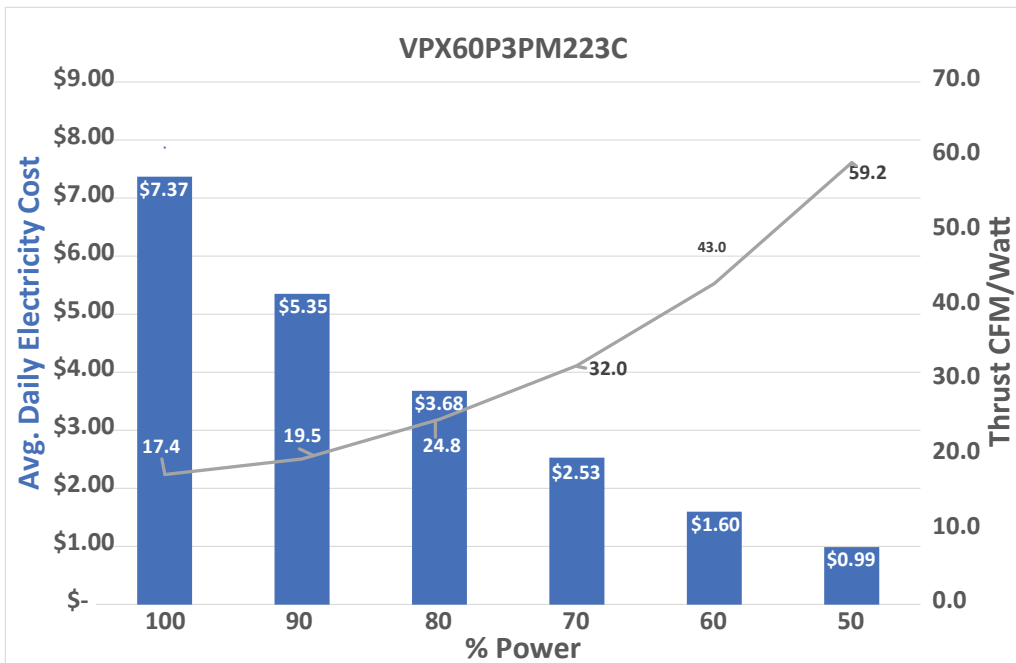
The PM Panel Fans feature the JD-Drive; a motor with internal driver, and **NO VFD REQUIRED!** When pairing these fans with a smart control, such as the Pulse, the energy savings potential should not be overlooked.

60" PM Panel Fan VPX60P3PM223C



At 100% speed, the average daily electricity cost in 24 hours is \$7.37. Your thrust cubic foot per minute (CFM) will be 40,100 CFM. When you slow the fan down to 60% speed and run it for 24 hours, it will only cost \$1.60. You'll still be getting an airflow of 21,637 CFM.

If you install two 60" PM Panel Fans where originally only one was needed, you could run them both at 60%, spend \$3.20 in a 24-hour period for both fans' electricity, and get an airflow of 43,274 CFM. The average annual electricity savings when installing two fans is \$1520.30!



With the PM Panel Fan, **ADJUST FOR THE AIR SPEED YOU NEED!** This fan is perfect for minimum winter ventilation. This is where you're going to save **BIG** money. During the hottest days of summer, let your smart control automatically ramp up the speed of both fans to 80%. Spend \$7.36 on the electricity to run both fans for 24 hours, and get an airflow of 57,240 CFM!

DON'T WASTE AIR SPEED

Let the Pulse Control automatically adjust your fans for optimum velocity and efficiency.

Permanent Magnet Direct Drive 50" , 55" , & 60" Panel Fans

Installation Options

| Part# | Description |
|---|--|
| Swivel Offset Post Mounting Bracket | |
| VRSBRPR6PX-PM | 4"-6" Wood Post, Galvanized |
| Swivel Offset Column Mounting Brackets | |
| VRSBRPR3X-PM | 3" Round Column, Galvanized |
| VRSBRPR35X-PM | 3½" Round Column, Galvanized |
| VRSBRPR4X-PM | 4" Round Column, Galvanized |
| VRSBRPR55X-PM | 5½" Round Column, Galvanized |
| VRSBRSQ6X-PM | 6" Square Column, Painted |
| In-line Column Mounting Brackets | |
| VRSBRP3 | 3"-3½" Round Column, Black Powder Coat & Galv. |
| VRSBRP4 | 4"-4½" Round Column, Black Powder Coat & Galv. |
| VRSBRP4SQ | 4"-4½" Square Column, Black Powder Coat & Galv. |
| VRSBRP5 | 5"-5½" Round Column, Black Powder Coat & Galv. |
| VRSBRP6 | 6"-6½" Round Column, Black Powder Coat & Galv. |
| Chain Suspending Kit | |
| HK211 | (3) 72" of Chain, w/Fan to Chain Assembly Hardware |

| Part# | Size | Ph | Spd | Thrust CFM | Thrust CFM/Watt | Drive | Prop |
|---------------------|------|----|--------|------------|-----------------|-------------|------------|
| Single Phase | | | | | | | |
| VPX50P3PM221A | 50" | 1 | 1/Var^ | 100% | 29,500 | 14.2 | PM-D 3-Ply |
| | | | | 90% | 25,142 | 15.6 | |
| | | | | 80% | 22,569 | 19.4 | |
| | | | | 70% | 19,759 | 25.0 | |
| | | | | 60% | 17,033 | 34.0 | |
| VPX55P3PM221A | 55" | 1 | 1/Var^ | 100% | 37,300 | 12.4 | PM-D 3-Ply |
| | | | | 90% | 29,475 | 17.5 | |
| | | | | 80% | 26,269 | 22.2 | |
| | | | | 70% | 23,483 | 28.3 | |
| | | | | 60% | 19,932 | 38.4 | |
| VPX60P3PM221A | 60" | 1 | 1/Var^ | 100% | 40,500 | 18.9 | PM-D 3-Ply |
| | | | | 90% | 36,700 | 23.3 | |
| | | | | 80% | 32,400 | 29.5 | |
| | | | | 70% | 28,400 | 37.7 | |
| | | | | 60% | 21,650 | 45.2 | |
| | | | | 50% | 17,886 | 61.4 | |

| Part# | Size | Ph | Spd | Thrust CFM | Thrust CFM/Watt | Drive | Prop |
|---------------------------------------|------|----|--------|------------|-----------------|-------------|------------|
| Three Phase wired for 190-240V | | | | | | | |
| VPX50P3PM223B | 50" | 3 | 1/Var^ | 100% | 29,300 | 14.0 | PM-D 3-Ply |
| | | | | 90% | 24,831 | 15.2 | |
| | | | | 80% | 21,775 | 19.6 | |
| | | | | 70% | 19,229 | 26.0 | |
| | | | | 60% | 16,564 | 34.8 | |
| VPX55P3PM223B | 55" | 3 | 1/Var^ | 100% | 37,500 | 12.6 | PM-D 3-Ply |
| | | | | 90% | 29,391 | 17.3 | |
| | | | | 80% | 26,091 | 21.9 | |
| | | | | 70% | 23,047 | 28.6 | |
| | | | | 60% | 19,947 | 38.4 | |
| VPX60P3PM223B | 60" | 3 | 1/Var^ | 100% | 40,300 | 17.8 | PM-D 3-Ply |
| | | | | 90% | 32,667 | 19.9 | |
| | | | | 80% | 29,036 | 25.3 | |
| | | | | 70% | 25,532 | 32.9 | |
| | | | | 60% | 21,970 | 44.5 | |
| | | | | 50% | 18,725 | 63.2 | |
| Three Phase wired for 380-460V | | | | | | | |
| VPX50P3PM223C | 50" | 3 | 1/Var^ | 100% | 29,600 | 14.3 | PM-D 3-Ply |
| | | | | 90% | 24,818 | 15.3 | |
| | | | | 80% | 22,101 | 19.4 | |
| | | | | 70% | 19,369 | 25.2 | |
| | | | | 60% | 16,573 | 33.5 | |
| VPX55P3PM223C | 55" | 3 | 1/Var^ | 100% | 36,800 | 13.3 | PM-D 3-Ply |
| | | | | 90% | 28,971 | 18.1 | |
| | | | | 80% | 25,806 | 22.9 | |
| | | | | 70% | 22,723 | 29.4 | |
| | | | | 60% | 19,628 | 39.9 | |
| VPX60P3PM223C | 60" | 3 | 1/Var^ | 100% | 40,100 | 17.4 | PM-D 3-Ply |
| | | | | 90% | 32,455 | 19.5 | |
| | | | | 80% | 28,620 | 24.8 | |
| | | | | 70% | 25,320 | 32.0 | |
| | | | | 60% | 21,637 | 43.0 | |
| | | | | 50% | 18,146 | 59.2 | |

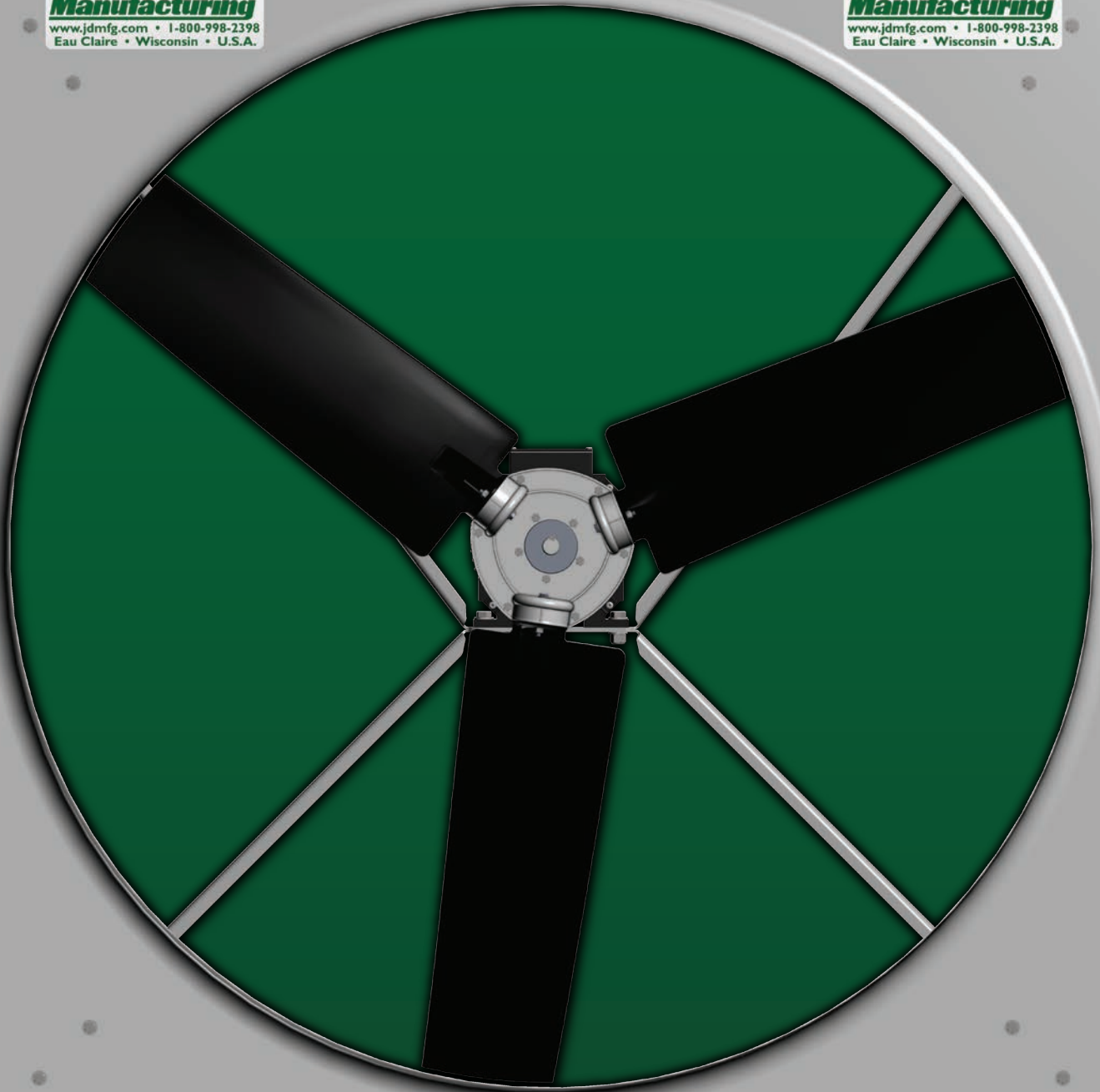
^ Variable speed fans require separate variable speed control to adjust fan speed

Bold red text is data based on testing performed by an accredited lab using ANSI/AMCA Standard 230-12

OSHA requires these fans to be mounted a minimum of 7' above the floor

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