

Idaho Rotary Parlor utilizing Uni-Directional AirBlasters for Recirculation and Standard Force Fans and Force Fans with High Pressure Fog Rings for Positive Pressure Ventilation.



## PM Panel Fan 50", 55", & 60"

Now with  
Galvanized  
Steel Prop



51

## Legend 80" Exhaust Fan

MEETS FEI  
REQUIREMENTS!

Incredible  
66,352 CFM  
@ 0.10"SP

5



## 72" Mega Storm Conversion Kits

Convert Mega Storm Belt Drive to direct or torque drive

- ☒ Budget-friendly
- ☒ Energy-efficient
- ☒ Labor-saving

When it's time for  
a replacement,  
**upgrade!**



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# J&D Manufacturing

## The J&D Way

*When you partner with J&D,  
you're going to get world-class support.  
We will provide ventilation & comfort solutions  
that are backed by 40+ years of experience.  
Together, we will implement the best ventilation  
and/or comfort solution for your client.*



**FOLLOW UP**  
TEST • DOCUMENT •  
SITE VISIT



**EXECUTION**  
ORDER • PRODUCE • INSTALL



**SOLUTIONS**  
PRESENT • PLANT TOUR



**PLANNING**  
DESIGN • SIMULATIONS



**SCOPING**  
SITE VISIT • YOUR PREFERENCES



*Let's work together to provide ventilation & comfort solutions.*

EXHAUST FANS

RECIRCULATION  
FANS

TUBE  
VENTILATION  
SYSTEMS

REPLACEMENT  
FAN PARTS

ENVIRONMENTAL  
CONTROLS

CURTAINS

INLETS

HIGH PRESSURE  
FOG & COOLING

FREESTALL  
SYSTEMS

HEADLOCKS &  
FEED PANELS

GATES &  
COLUMNS

MATS &  
RUBBER

OTHER  
PRODUCTS

# THE FACTS ARE IN THE GAINS



Rupert, Idaho



1 Facility  
3 Dairies

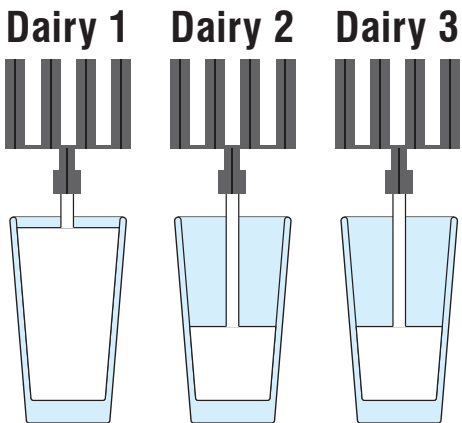


~3,000 Cows/Dairy



**DAIRY 1 ADDED 100 PM PANEL FANS**  
6 MONTHS OF DATA WAS COLLECTED AND COMPARED

## MAINTAINED PRODUCTION



During hot weather, dairy 1 maintained production.

Dairies 2 and 3 cows suffered heat stress and production dropped.



INCREASE IN COW LAYING TIME



INCREASE IN MILK PROTEIN LEVEL



DECREASE IN SLUG FEEDING



DECREASE IN ACIDOSIS



DECREASE IN HOOF ISSUES



DECREASE IN CULLED COWS

**\$80,000**  
per month  
**GAINED**

= **\$55,000** + **\$25,000**  
per month gained due to increase in milk protein level  
per month saved due to decrease of culled cows



# EXHAUST FANS THAT WON'T EXHAUST YOUR BUDGET

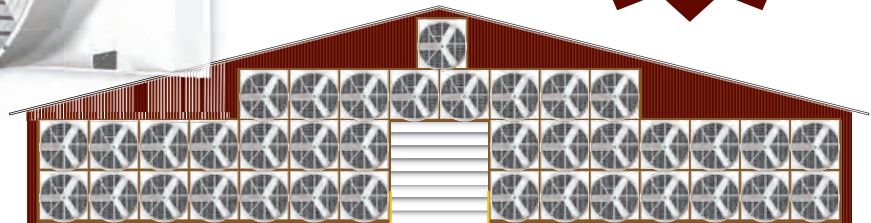
J&D provides expert ventilation solutions. Exhaust fans are an important part of a ventilation system. Ultimately, it's the exhaust fan's job to get rid of the air that is filled with ammonia and other gases – keeping your barn or grow house environment comfortable and healthy for your livestock or plants. Exhaust fans draw air through the facility, aiding in keeping the facility cool for its occupants. J&D manufactures a complete line of poly, galvanized, and fiberglass exhaust fans. Our exhaust fans are corrosion and rust resistant, which drastically reduces maintenance costs. With so many sizes and options available, you'll be sure to find the perfect addition to your ventilation system.

PAGE  
5



**Incredible  
66,352 CFM  
@ 0.10"SP**

**MEETS FEI  
REQUIREMENTS!**



## LEGEND 80" EXHAUST FAN

PAGE  
11



Standard Guard  
with optional SS3011 HPF ring

**NEW  
Stainless-  
Steel Prop**

**JD**  
Drive  
JD-Drive Motor  
**IMPROVED**  
Now IP66 rated &  
increased efficiency



## THE FORCE - POSITIVE PRESSURE FAN

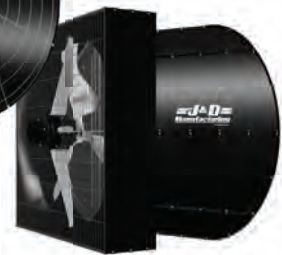
Precision control of air exchange rate, specifically designed for positive pressure ventilation. No large cone to accommodate for. Variable speed and highly efficient at lower speeds. Actuated opening, heavy-duty shutter for every weather condition.

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**NEW  
Stainless-  
Steel Prop**

**JD**  
Drive  
JD-Drive Motor  
**IMPROVED**  
Now IP66 rated &  
increased efficiency



## MAGNUM 58" EXHAUST FAN

High-performance + packaged for reduced shipping costs + maintenance-free motor  
= economical choice.

# Legend 80" Exhaust Fan

J&D Manufacturing is committed to innovation and constantly increasing our product line. The Legend 80" Exhaust Fan is our largest exhaust fan yet. We wanted to create a fan large enough to maximize CFM in standard bays, essentially allowing no wasted space – the entire wall could be filled with fans. Wall space is limited, and we need to maximize the amount of CFM that can be exhausted through the wall.

## Prop

- 3 durable, corrosion resistant, lightweight Marine-Grade 5052 aluminum wings
- Aerodynamic air seal hub to enhance the air flow and energy efficiency
- Wings have airfoil profiles to dramatically increase efficiency while reducing torque, providing energy savings and longer motor life
- Vortex tipped wings reduce noise and increased efficiency

## Guard

- Two piece for easy handling
- Heavy-duty
- Hot dipped galvanized after welding to resist rust and corrosion

## Heavy-Duty X-frame

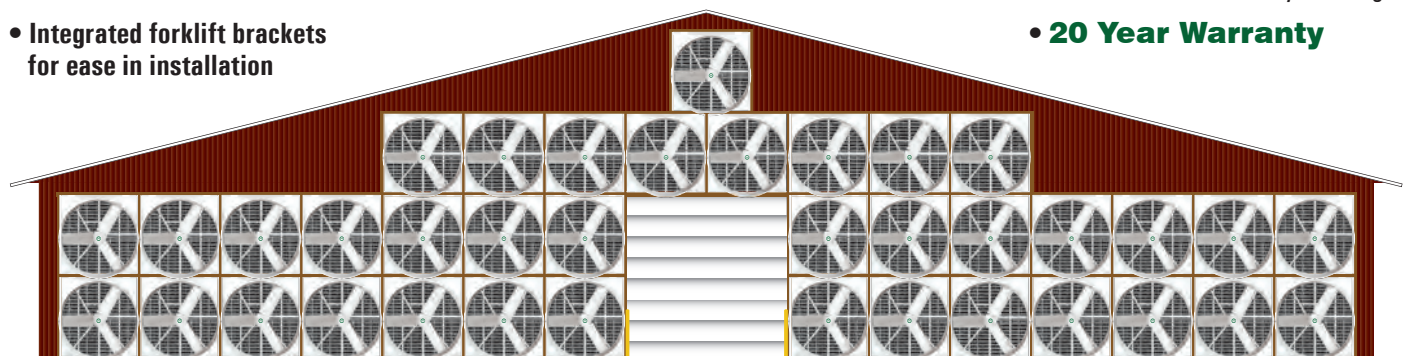
- Four-point contact for strength and durability
- G90 galvanized for corrosion and rust resistance
- 10 gauge steel for strength and rigidity to minimize vibration
- Integrated forklift brackets for ease in installation

**MEETS FEI REQUIREMENTS!**

**J&D**  
**Manufacturing**  
[www.jandmfg.com](http://www.jandmfg.com)

## Fiberglass Housing and Cone

- Drainage holes in the bottom of the housing allows moisture to drain
- UV-resistant for long life
- Smooth exterior for easy cleaning
- **20 Year Warranty**



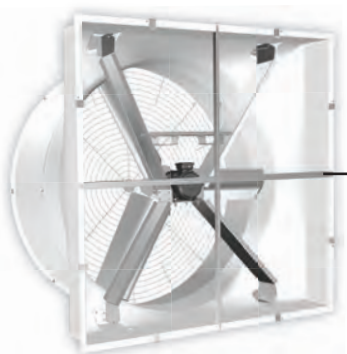
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# Legend 80" Exhaust Fan

## Shutter Frame

- Provides structure for implementation of smaller shutters for easier installation and easier maintenance



## 4 Aluminum Shutters

- 2-panel with tie bars to eliminate shutter flapping
- Nylon bushings and solid shafts for smooth performance

**Incredible  
66,352 CFM  
@ 0.10"SP**

## Permanent Magnet Direct Drive Motor

- 4.0kW
- IP66-Rated
- Super premium efficiency
- **2 Year Warranty**

## VFD - Variable Frequency Drive

- IP66-Rated
- 0-10V or 4-20mA control signal



**MAINTENANCE-FREE**  
No belts, pulleys,  
or tensioners

## Torque Drive

- 3HP integral motor and gearbox combination

Part #	Sz	Spd	@ 0.10" SP			Drive	Prop	
			CFM	CFM/ Watt	FEI			
Three Phase								
VLA80A3C403C-PM	80"	1/V^	100%	66,352	15.3	1.73	PM-D	3-Alm
			90%	58,444	18.4	2.09		
			80%	50,354	21.9	2.50		
			70%	41,812	26.1	3.01		
			60%	32,437	31.3	3.66		
VLA80A3C33C	80"	1	100%	48,788	21.1	2.42	TRO	3-Alm

Rough Opening - 88" W x 88" H

Side-By-Side Recommended OC Dimension for Fan with Cone - Minimum 93"

<sup>^</sup> 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 210-07 standard.**

Integrated forklift brackets  
for ease in installation



**Don't forget to  
check out our  
Legend 36"**

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

## Fan Energy Index (FEI): A New Measure of Fan Efficiency

### What is FEI:

Fan Energy Index or FEI is a fan efficiency metric developed by AMCA International and its members as a response to the U.S. Department of Energy's requirement to capture a fan's true efficiency more accurately. Different from previous efficiency calculations, FEI accounts for all parts of the fan system including the motor, drive, transmission (gears or belts), and aerodynamic losses, as well as eliminating variation based on fan size. It does this by comparing a fan against a "baseline" fan of the same size that has a minimum allowable efficiency.

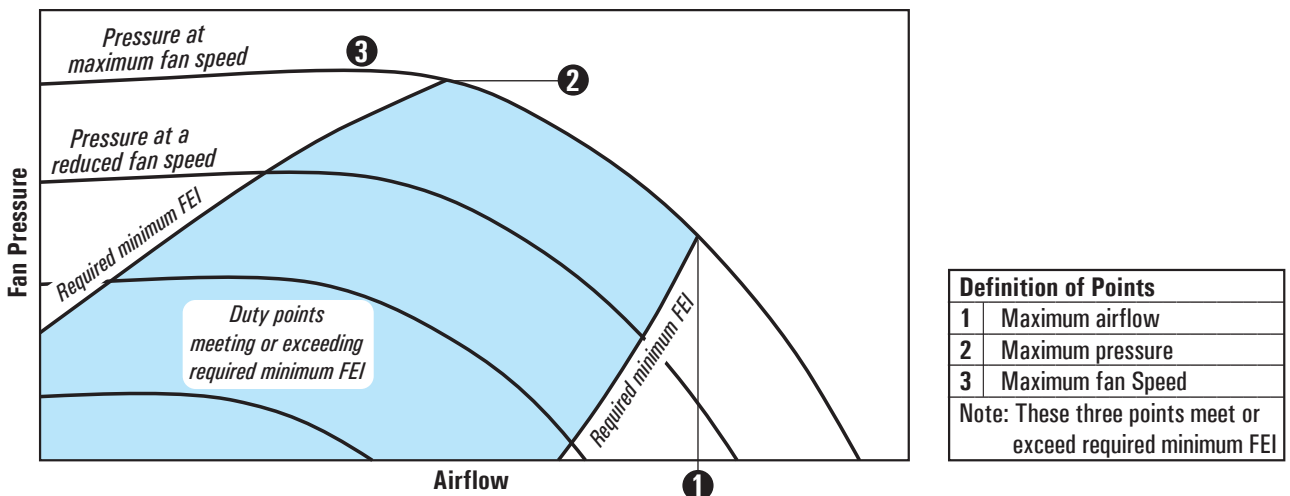
The general definition of FEI is this:

$$FEI = \frac{\text{Fan Efficiency}}{\text{Baseline Fan Efficiency}} \quad \text{Eq. 1}$$

Since these efficiencies are both calculated at the same airflow and pressure, this ratio can also be written as follows:

$$FEI = \frac{\text{Baseline Fan Electrical Input Power}}{\text{Fan Electrical Input Power}} \quad \text{Eq. 2}$$

If a fan has a FEI = 1.0, that means it has the same efficiency as the baseline fan. FEI above 1.0 signifies that the fan being tested used less electricity than the baseline fan to get the same output. The higher the FEI, the more efficient the fan. The baseline fan electrical input is calculated at the same airflow and pressure as the fan being tested, so FEI is calculated over the entire operating range of the fan, resulting in a compliant range "bubble".



### Why it Matters:

New government regulations are going into effect requiring all commercial and industrial fans to be tested using a common procedure that the Department of Energy has specified, based on AMCA standards. Soon, all fans in the scope of the new rules will need to be tested per the procedure and the FEI will need to be calculated.

This will give regulators a clearer picture of fan efficiency, help manufacturers design high quality products, and empower users to choose the best fan for their application.



# SUPER Magnum 58" Exhaust Fan

The SUPER Magnum is a testament to J&D's constant drive to reach higher, do more, and achieve even greater performance all just to provide our customers with better a product.

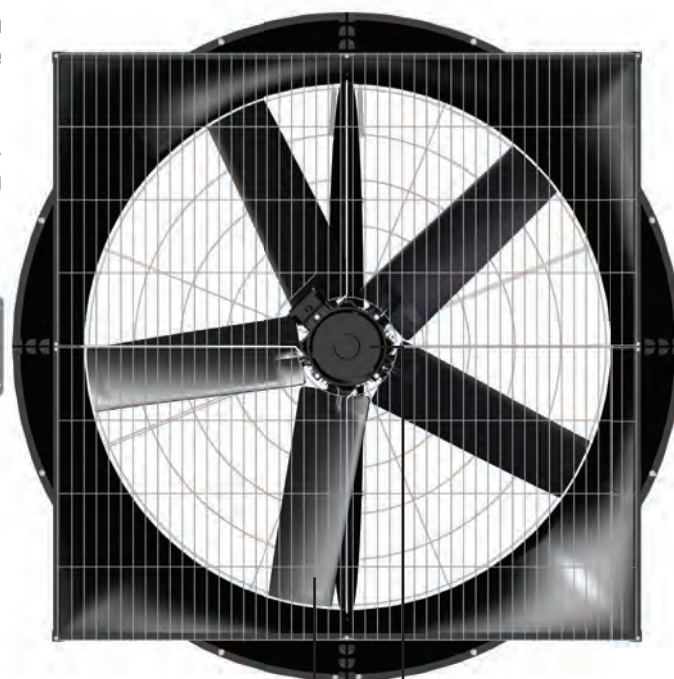
With a newly designed 5-bladed prop and an astounding 4.0kW permanent magnet direct drive motor with external driver, this fan's 50,000 plus CFM will blow you away.

**Incredible  
50,002 CFM  
@ 0.10" SP**



## Driver

- IP66-Rated
- 0-10V or 4-20mA control signal



## Motor

- Powerful 4.0kW
- IP66-Rated
- Super premium efficiency

## Prop

- 5 glass-filled poly composite blades
- Die-cast aluminum hub

**3 Year  
Warranty on  
ENTIRE fan**

Part #	Sz	Spd	@ 0.10" SP			Drive	Prop	
			CFM	CFM/ Watt	FEI			
Three Phase								
VSMF58DP5C403C	58"	1/V^	100%	50,002	14.6	1.66	PM-D	5-Ply
			90%	44,192	16.9	1.94		
			80%	38,412	19.5	2.26		
			70%	32,533	23.2	2.70		
			60%	25,996	27.1	3.20		

Rough Opening - 65¼" W x 65¼" H

Side-By-Side Recommended OC Dimension for Fan with Cone - Minimum 75"

<sup>^</sup> 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 210-07 standard.**

## Shipping

- Easy to assemble and packaged for reduced shipping cost
- 55 fans per 53' van trailer truckload



**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Magnum 58" Exhaust Fan

The Magnum 58" Exhaust Fan uses a maintenance-free, direct drive, permanent magnet motor. It eliminates the need for greasing bearings and changing belts. The housing is made of strong poly, while the frame is all stainless-steel preventing rust and corrosion in any environment. The complete fan includes durable poly damper doors that seal out air and light when closed.

The Magnum 58" Exhaust Fan is designed to operate in the full range from minimum ventilation, to maximum power using basic 0-10 volt control signal which eliminates the need for smaller fans. Because of the high-performance of the Magnum 58", you'll use 25% fewer fans on your next project, making it your most economical choice.

**3 Year Warranty  
on ENTIRE fan**



## JD-Drive Motor

- PM Direct Drive, efficient 2.2kW motor
- Internal motor drive - no VFD needed
  - Provides soft starts
  - Enables variable speed
  - Allows for precise and uniform speed control
- Surge protection
- Locked rotor protection
- Overload protection
- Thermal foldback protection
- IP66-Rated
- Industrial aluminum housing
- Will not interfere with RFID



## Shipping

- Easy to assemble and packaged for reduced shipping cost
- 75 fans per 53' van trailer truckload

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# Magnum 58" Exhaust Fan



**With an  
Incredible  
Air Flow Ratio  
of 0.83**

Part #	Sz	Spd	@ 0.10" SP			Drive	Prop	
			CFM	CFM/ Watt	FEI			
Single Phase								
VMF58DS3C221AG	58"	1/V^	100%	41,470	18.5	2.13	PM-D	3-SS
			90%	35,752	21.9	2.55		
			80%	30,707	25.5	3.00		
			70%	25,018	29.3	3.49		
			60%	18,364	32.0	3.91		
Three Phase								
VMF58DS3C223BG	58"	1/V^	100%	41,184	19.1	2.20	PM-D	3-SS
			90%	35,787	22.6	2.63		
			80%	30,848	25.7	3.01		
			70%	25,187	29.8	3.51		
			60%	17,411	30.5	3.72		
VMF58DS3C223CG	58"	1/V^	100%	41,422	18.9	2.18	PM-D	3-SS
			90%	35,849	21.8	2.54		
			80%	30,681	25.2	2.94		
			70%	24,975	28.9	3.44		
			60%	17,688	30.4	3.71		

Rough Opening - 65¼" W x 65¼"H

Side-By-Side Recommended OC Dimension for Fan with Cone - Minimum 75"

\* Experts choice

<sup>^</sup> 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 210-07 standard.**

## Housing

- Rugged, corrosion-resistant poly with UV inhibitor
- Precision injection molded



Shown with guard removed  
(Never permit power to fan with guard removed)

## Damper Doors

- Edged with magnets and 360° of rubber seal to minimize air infiltration
- Dual tension springs
- Durable poly with UV inhibitor will endure even the harshest conditions

## Motor Frame

- 304 stainless-steel for corrosion-resistance
- Motor-centric with minimal air impedance

## Cone

- Deep for superior performance
- Multi sections makes for ease in handling when installing, as well as reduced shipping
- Rugged, corrosion-resistant poly with UV inhibitor



## Guards

- Corrosion-resistant stainless-steel



## Prop

- 3 corrosion-resistant 304 stainless-steel blades
- 304 stainless-steel hub

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# The Force - Positive Pressure Fan

## Specifically designed for positive pressure ventilation

- **No large cone to accommodate for**
- **Variable speed and highly efficient at lower speeds**
- **Actuated opening, heavy-duty shutter for every weather condition**

### JD-Drive Motor

- PM Direct Drive, efficient 2.2kW motor
- Internal Motor Drive - no VFD needed
  - Provides soft starts
  - Enables variable speed
  - Allows for precise and uniform speed control
- Surge protection
- Locked rotor protection
- Overload protection
- Thermal foldback protection
- IP66-Rated
- Industrial aluminum housing
- Will not interfere with RFID



### Prop

- 3 corrosion-resistant 304 stainless-steel blades
- 304 stainless-steel hub

### Motor Frame

- 304 stainless-steel for corrosion-resistance
- Motor-centric with minimal air impedance



### Housing

- Rugged, corrosion-resistant poly with UV inhibitor
- Precision injection molded



### Actuated, Heavy-Duty Shutter

- Increases performance
- **Uses a linear actuator that opens out, even in strong headwinds, ice, and snow**
- When the fans are off
  - Wind cannot open the shutter
  - Minimal snow, wind, and rain infiltration
- Aluminum shutter frame
- Louvers are reinforced aluminum with rubber gasketed edge to keep out wind and weather



**3 Year  
Warranty  
on ENTIRE  
fan**

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# The Force - Positive Pressure Fan

## Precision control of air exchange rate

### Options for Output Side of Fan

- Standard Guard
  - Black powder coated corrosion resistant stainless steel
- Louvers with Mesh Guard
  - 4 independent directional poly louvers for directing air flow
  - Corrosion resistant galvanized mesh guard



Standard Guard



Louvers with Mesh Guard

Part #	Sz	Spd		@0.05" SP			@0.10" SP			@0.20" SP			Air Flow Ratio	Drive	Prop	Test#
				CFM	CFM/ Watt	FEI	CFM	CFM/ Watt	FEI	CFM	CFM/ Watt	FEI				
Single Phase																
Standard Guard																
VFF58PS3N221AG	58"	1/V^	100%	37,184	14.6	1.53	35,510	13.7	1.59	31,971	11.9	1.66	0.86	PM-D	3-SS	20240723-01
			90%	33,419	17.7	1.86	31,686	16.4	1.92	27,491	13.8	1.93	0.82			20240723-02
			80%	29,415	21.7	2.30	27,435	19.8	2.33	21,923	15.4	2.19	0.75			20240723-03
			70%	25,472	27.4	2.94	22,902	24.1	2.87			2.16				20240723-04
Louvers with Mesh Guard																
VFF58PS3L4221AG	58"	1/V^	100%	35,696	13.8	1.45	34,062	12.9	1.51	30,129	11.1	1.54	0.84	PM-D	3-SS	20240726-01
			90%	31,915	16.7	1.76	29,927	15.3	1.80	25,433	12.6	1.78	0.80			20240726-02
			80%	27,974	20.4	2.18	25,743	18.4	2.18	19,690	13.9	1.98	0.70			20240726-03
			70%	24,094	25.8	2.79	21,356	22.3	2.67			1.78				20240726-04
Three Phase																
Standard Guard																
VFF58PS3N223BG	58"	1/V^	100%	37,527	15.4	1.61	35,950	14.5	1.68	32,342	12.6	1.75	0.86	PM-D	3-SS	20240729-01
			90%	33,815	18.8	1.98	31,835	17.2	2.01	27,520	14.4	2.02	0.81			20240729-02
			80%	29,633	22.9	2.44	27,382	20.7	2.43	22,083	16.3	2.32	0.75			20240729-03
			70%	25,714	28.8	3.1	22,987	25.1	2.98			2.27				20240729-04
VFF58PS3N223CG	58"	1/V^	100%	37,261	15.3	1.61	35,728	14.4	1.67	31,975	12.5	1.73	0.86	PM-D	3-SS	20240801-08
			90%	33,509	18.3	1.93	31,709	16.9	1.98	27,175	14.0	1.96	0.81			20240801-09
			80%	29,621	22.5	2.40	27,436	20.3	2.39	21,518	15.6	2.22	0.73			20240801-10
			70%	25,383	27.4	2.93	22,643	23.9	2.84			2.15				20240802-01
Louvers with Mesh Guard																
VFF58PS3L4223BG	58"	1/V^	100%	35,979	14.7	1.53	34,278	13.7	1.60	30,213	11.7	1.63	0.84	PM-D	3-SS	20240729-11
			90%	32,313	17.7	1.87	30,219	16.3	1.90	25,540	13.3	1.87	0.79			20240729-12
			80%	28,359	21.6	2.30	25,866	19.2	2.28	19,662	14.5	2.07	0.69			20240729-13
			70%	24,215	27.1	2.93	21,477	23.4	2.80			1.75				20240729-14
VFF58PS3L4223CG	58"	1/V^	100%	35,979	14.7	1.54	34,278	13.7	1.59	30,213	11.7	1.64	0.84	PM-D	3-SS	20240731-10
			90%	32,228	17.1	1.80	30,307	15.8	1.85	25,582	12.9	1.82	0.79			20240801-01
			80%	28,266	20.9	2.23	25,916	18.7	2.22	19,082	13.7	1.95	0.68			20240801-02
			70%	24,210	26.1	2.80	21,516	22.7	2.71			1.73				20240801-03
Accessories																
HK229	Kit, Convert from Standard Guard to Louvers with Mesh Guard															
JDVFF-SC	Control, Independent Force Fan Shutter, 3 Position: Automatic / Manual Closed / Manual Open															
PP11083	Multi Fan Transformer, Force Fan, Required for Multi Fan Use, Max 16 Fans, NEMA-4X Enclosure															

\* Experts choice

<sup>^</sup> 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 210-07 standard.**

**Rough Opening:** 65½" W x 65½"H

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# Mega Fan Series

## 72" Fiberglass Exhaust Fans

Whether trying to select fans that meet requirements for energy rebates, specific ventilation requirements, or zero maintenance, J&D's Mega Fan Series of 72" fiberglass exhaust fans has a model that will fit all of your exhaust fan needs.

### Guard

- Heavy-duty
- Hot dip galvanized after welding to resist rust and corrosion

### X-frame

- Four-point contact for strength and durability
- Galvanized for corrosion and rust resistance

### Shutter

- 3-panels with tie bars to eliminate shutter flapping
- Nylon bushings and solid shafts for smooth performance

### Cone

- Choose:
  - Standard 1-piece fiberglass
  - or
  - Optional 3-piece poly

### Fiberglass Housing and Cone

- Drainage holes in the bottom of the housing allows moisture to drain
- UV-resistant for long life
- Smooth exterior for easy cleaning
- **20 Year Warranty**

### Shutter Clips

- Heavy gauge stainless-steel
- Enables tool-free access for inspection and cleaning (disconnect power to fan before shutter is removed)

Rough Opening  
77" W x 77" H

Side-By-Side Recommended OC  
Dimension for Fan with Cone  
Minimum 81"



**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Mega Direct Drive

## Direct Drive 72" Fiberglass Exhaust Fan

J&D's new Mega Direct Drive Exhaust Fan is unlike any other exhaust fan in its size. The super-premium efficient motor will provide years of carefree service. The Mega Direct Drive will maintain it's incredible performance without having to maintain belts, pulleys, and tensioners. Both the driver and motor have an IP66 rating, making it safe to use in harsh agricultural environments. Enjoy your energy savings when you slow down the fan. Don't forget to Request the Test and compare J&D's Mega Direct Drive to any other fan you're considering for your next project.



**Incredible 58,368  
CFM @ 0.10"SP**

Part #	Sz	Spd	@ 0.10" SP			Drive	Prop
			CFM	CFM/ Watt	FEI		
Mega Direct Drive							
Three Phase Wired for 480V							
With 1-Piece Cone (for 3-piece cone, add H after C in part #)							
Aluminum Shutter							
VMDA72G3C43C	72"	1/V^	100% 58,368	15.4	1.75	PM-D	3-Glv
			90% 51,106	18.1	2.07		
			80% 43,758	21.8	2.50		
			70% 36,079	25.8	2.99		
			60% 26,425	28.7	3.39		
VMDA72G3C43C-HE	72"	1/V^	100% 50,084	20.0	2.28	PM-D	3-Glv
			90% 43,417	22.9	2.63		
			80% 37,375	27.2	3.13		
			70% 30,123	30.8	3.61		
			60% 21,721	32.9	3.94		
Accessories							
VRS75	Shutter Motor Kit, for 3 Panel Aluminum Shutter						
VRS75-C	Shutter Motor Kit, for 3 Panel Aluminum Shutter w/Cord						

^ 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 210-07 standard.**

### Prop

- 3 galvanized blades
- Black powder-coated steel hub

### Motor

- IP66-Rated
- Super premium efficiency
- **2 Year Warranty**

### Driver

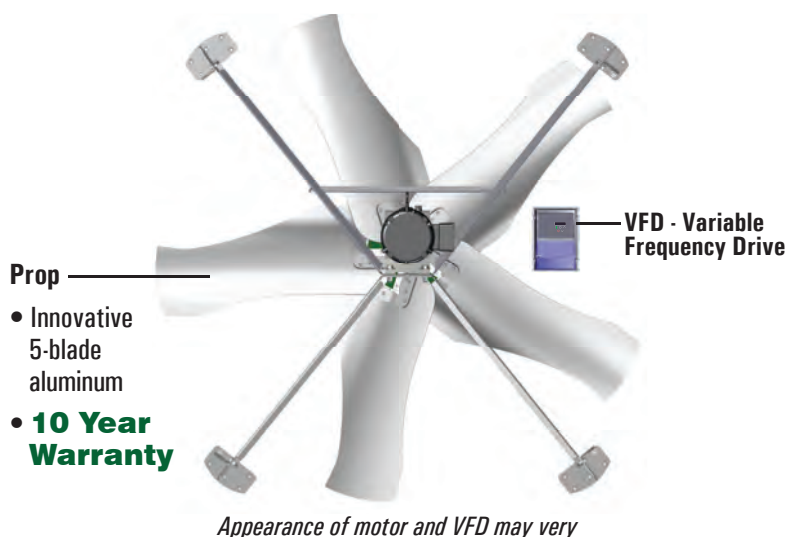
- IP66-Rated
- 0-10V or 4-20mA control signal

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Mega Torque Fans

## Torque Drive 72" Fiberglass Exhaust Fan

J&D's Mega Torque fans maintain FANTastic performance and great efficiency with no power loss or reduction from aging belts and pulleys. Their premium and efficient industrial motor provide years of care-free service.



## Save Time & Money

- No Belts to Change**
- No Pulleys to Maintain**
- No Greasing Motor or Bearings**

## Mega Torque with VFD

- Comes with VFD (Variable Frequency Drive)
  - Pre-wired to motor and pre-set for easy installation
  - Soft starts fan to reduce loads on fan during start up and helps to extend fan life
  - Compatible with most J&D controls
  - NEMA 4x enclosure with cooling fins, mounted in air flow to ensure low temperature during operation
  - Short wire length between motor and VFD to eliminate electrical noise and extend motor life
  - Pre-installed filters to eliminate interference with RFID readers and other electronics
- **3 Year Warranty** on motor and torque drive

Part #	Sz	Spd	@ 0.10" SP			Drive	Prop
			CFM	CFM/ Watt	FEI		
Mega Torque With VFD							
Three Phase							
With 1-Piece Cone (for 3-piece cone, add H after C in part #)							
Aluminum Shutter							
VMTA72A5C33E-VFD240	72"	1/V^	40,761	20.7	2.38	Torque	5-Alm
VMTA72A5C33E-VFD480	72"	1/V^	40,304	20.9	2.41	Torque	5-Alm
Mega Torque							
Three Phase							
With 1-Piece Cone (for 3-piece cone, add H after C in part #)							
Aluminum Shutter							
VMTA72A5C33E	72"	1	40,075	22.0	1.82	Torque	5-Alm
Accessories							
VRS75	Shutter Motor Kit, for 3 Panel Aluminum Shutter						
VRS75-C	Shutter Motor Kit, for 3 Panel Aluminum Shutter w/Cord						

^ 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 210-07 standard.**

**NOTE:** It is **highly** recommended that a motorized shutter kit be installed to open shutter when fan is operating at 40% or lower

## Mega Torque

- VFD (Variable Frequency Drive) compatible and recommended (VFD not included)
- Motorized shutter kit compatible - highly recommended when fan is operating at 40% or lower
- **1 Year Warranty** on motor and torque drive

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# Mega Conversion Kits

## For Belt Drive Mega Storm

Upgrade your Mega Storm with our maintenance-free conversion kits and eliminate the hassle of belts, pulleys, and tensioners. These easy-to-install upgrades not only reduces downtime and maintenance costs but also enhances performance by delivering increased CFM for improved airflow. Enjoy reliable, efficient operation with a modernized system designed to optimize your ventilation needs.

**Don't replace it UPGRADE it!**

- ✓ **Budget-friendly**
- ✓ **Energy-efficient**
- ✓ **Labor-saving**
  - No Belts to Change
  - No Pulleys to Maintain
  - No Greasing Motor or Bearings

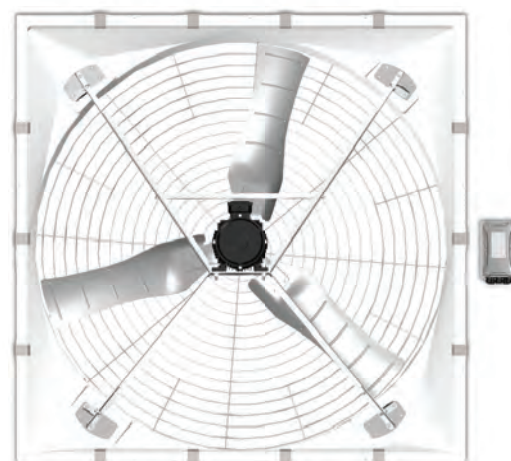
## Convert to PM Direct Drive

Take control of your ventilation.

Convert to a highly-efficient variable speed PM Direct Drive. Giving you the power to create a more even and efficient air exchange for consistent quality of air.

Part #	Spd	Drive	Prop
<b>PM Direct Drive Mega Storm</b>			
<b>Three Phase</b>			
VRJ72G3PM43C-HE	1/V^	PM-D	3-Glv

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



*Shown with shutter removed. Never provide power to fan without guards and shutter properly installed.*

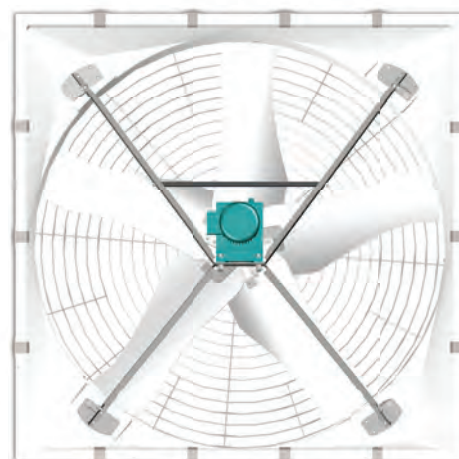
## Convert to Torque Drive

Don't need the variable speed?

Convert to the Torque Drive and still experience maintenance-free ventilation.

Part #	Spd	Drive	Prop
<b>Torque Drive Mega Storm</b>			
<b>Three Phase</b>			
VRJ72A5TD33C	1	TRQ	(5-Alm)

Torque drive conversion kit utilizes the belt drive prop.



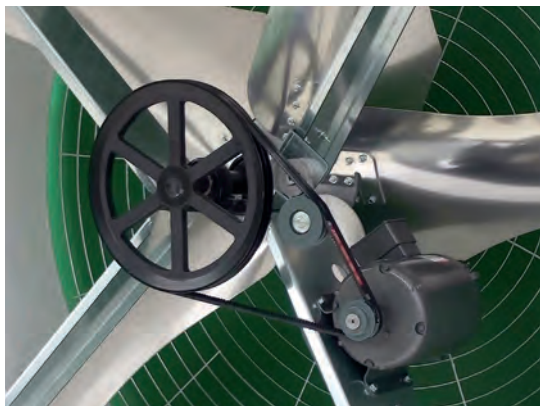
*Shown with shutter removed. Never provide power to fan without guards and shutter properly installed.*

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Mega Storm Fans

## Belt Drive 72" Fiberglass Exhaust Fan

EXHAUST FANS



**Shown: Mega Storm II**  
*(Mega Storm motor belt tensioner appearance and locations differ)*



- Twin belts are easily accessible and require no tools for replacement in seconds
- Double groove steel belt tensioner for longer life
- 1½" shaft and sealed pillow block bearings
- **3 Year Warranty** on bearings
- **10 Year Warranty** on 5-blade aluminum prop

**High-Performance  
& High-Efficiency  
Models Available**

### Mega Storm II Features

- 47,330 CFM @.10" SP, high-performance model available
- High efficiency model that exceeds 21 CFM/Watt
- **3 Year Warranty** on energy-efficient (-E) and high-efficient (-H) motors

### Mega Storm Features

- Certified performances up to 44,734 CFM @.10" SP
- Single or three phase 3 HP, UL recognized motors
- **2 Year Warranty** on motors

Part #	Sz	Spd	@ 0.10" SP			Drive	Prop
			CFM	Watt	FEI		
Mega Storm II							
Three Phase							
With 1-Piece Cone (for 3-piece cone, add H after C in part #)							
Aluminum Shutter							
VMA72A5C33	72"	1	39,270	20.4	2.35	Belt	5-Alm
VMA72A5C33-E	72"	1	40,121	21.1	2.43	Belt	5-Alm
VMA72A5C33-H	72"	1	47,330	16.9	1.93	Belt	5-Alm
Mega Storm							
Single Phase							
No Cone							
Aluminum Shutter							
VMSA72A5N31	72"	1	38,960	14.9	1.72	Belt	5-Alm
With 1-Piece Cone (for 3-piece cone, add H after C in part #)							
Aluminum Shutter							
VMSA72A5C31	72"	1	40,792	15.7	1.81	Belt	5-Alm
Three Phase							
No Cone							
Aluminum Shutter							
VMSA72A5N33	72"	1	42,950	14.3	1.64	Belt	5-Alm
With 1-Piece Cone (for 3-piece cone, add H after C in part #)							
Aluminum Shutter							
VMSA72A5C33	72"	1	44,734	14.9	1.71	Belt	5-Alm

\* Experts choice

**Bold red text is data based on testing performed by an accredited lab using ANSI/AMCA 210-07 standard.**

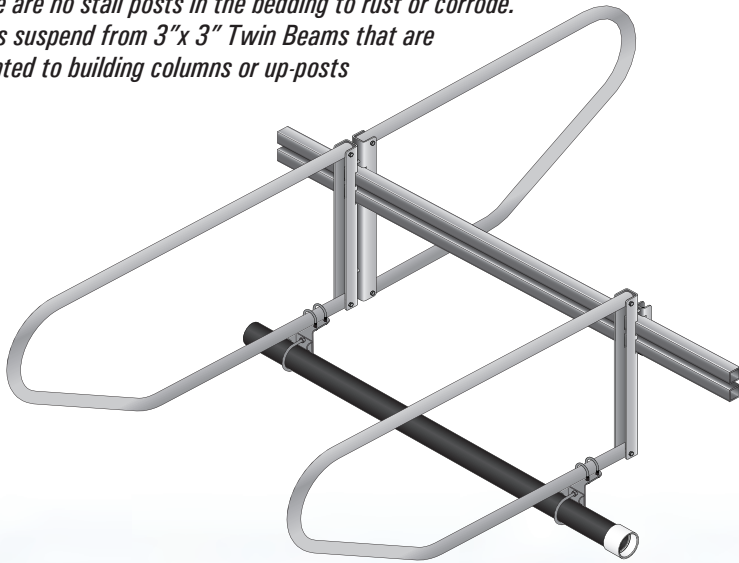
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### Adjustable Twin Beam Suspended Freestall System with Iron Side Loops

*There are no stall posts in the bedding to rust or corrode. Loops suspend from 3"x3" Twin Beams that are mounted to building columns or up-posts*



### Adjustable Poly Brisket Tube System

*Stall mount bracket adjusts easily forward or backward to shorten or lengthen the freestall bed, as well as up or down to raise or lower the brisket tube*

### Mega Storm - Belt Drive 72" Fiberglass Exhaust Fan

*Certified performances up to 44,734 CFM @ .10" static pressure*



### Storm - 55" Fiberglass Exhaust Fan

*Requires 1/3 fewer fans compared to using 48" exhaust fans*

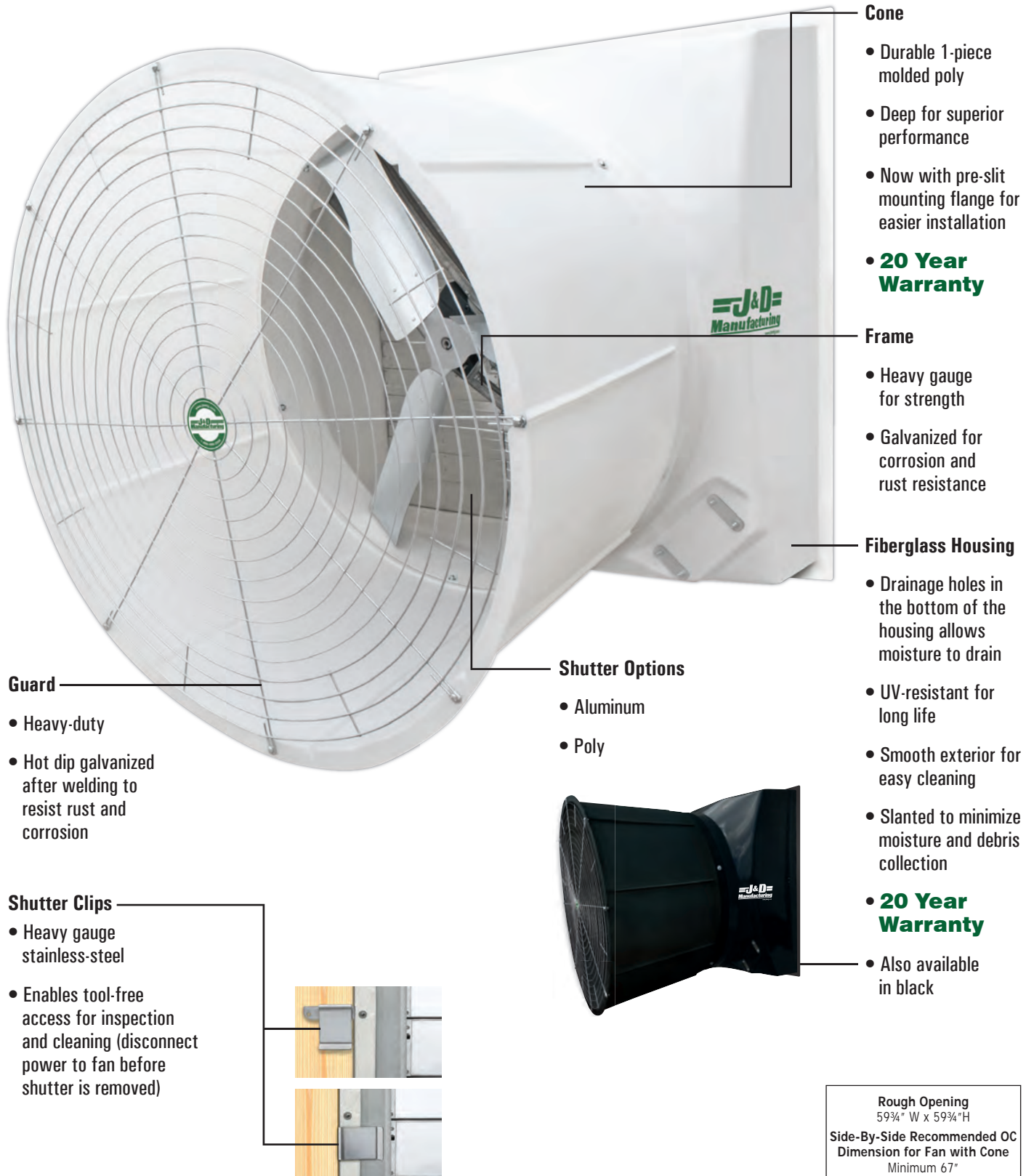




# Storm Series of Fans

## 55" Fiberglass Exhaust Fans

EXHAUST FANS



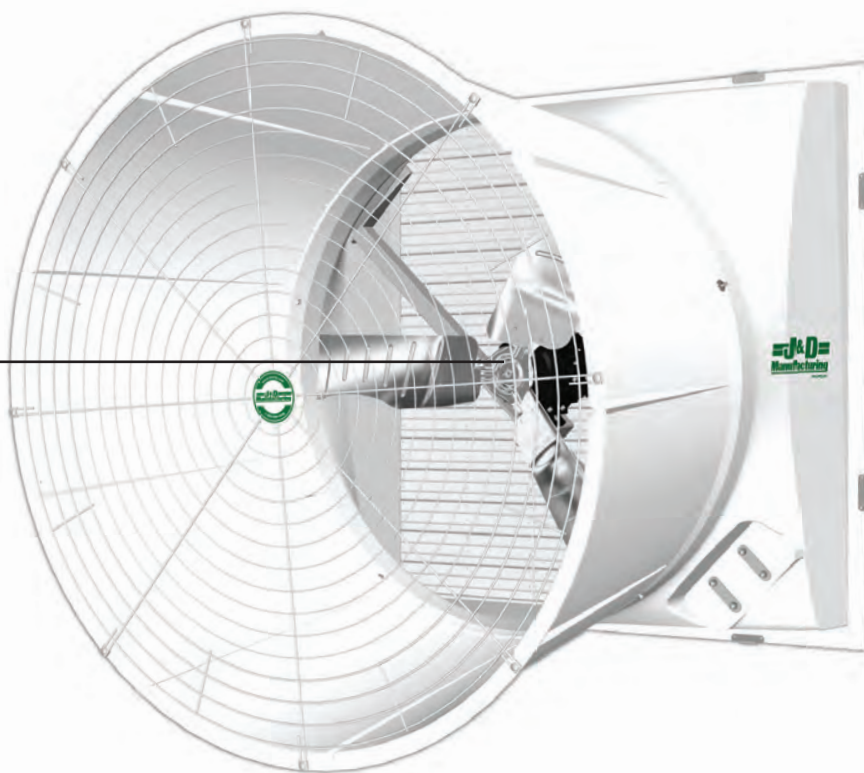
**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Direct Drive Storm

## Prop

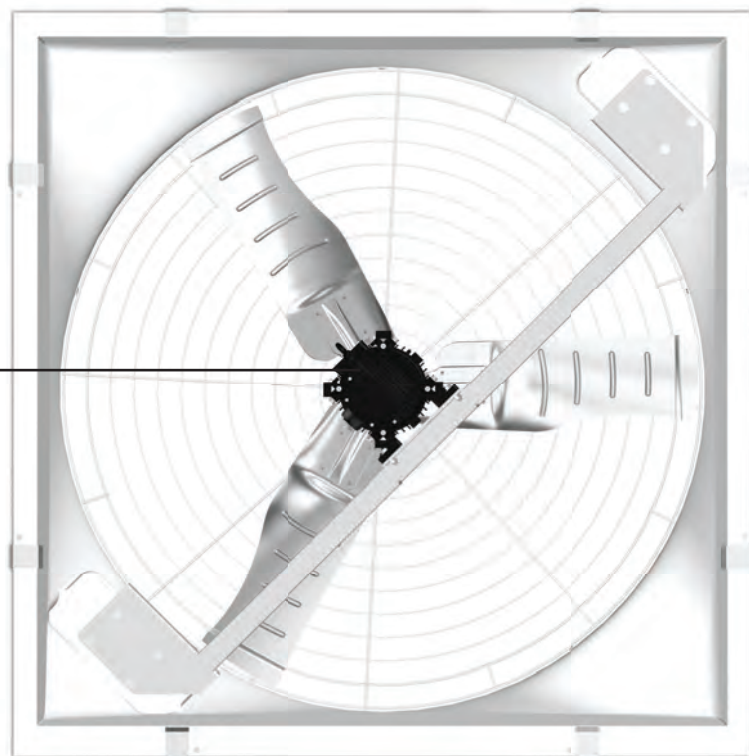
- 3-blades
- Galvanized for corrosion-resistant
- Aerodynamic embossing for increased rigidity to minimize flex and improve blade performance

**Variable  
Speed,  
No VFD  
Needed**



## JD-Drive Motor

- PM Direct Drive, efficient 2.2kW motor
- Internal Motor Drive - no VFD needed
  - Provides soft starts
  - Enables variable speed
  - Allows for precise and uniform speed control
- Surge protection
- Locked rotor protection
- Overload protection
- Thermal foldback protection
- IP66-Rated
- Industrial aluminum housing
- Will not interfere with RFID
- **3 Year Warranty**



**Shown with shutter removed**  
*(Never permit power to fan with shutter removed)*

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Direct Drive Storm

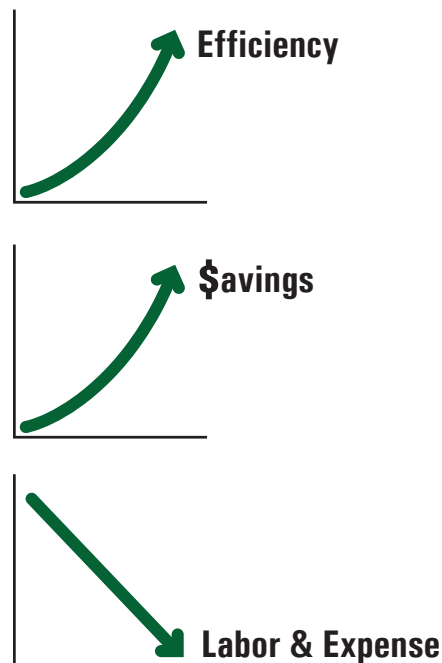
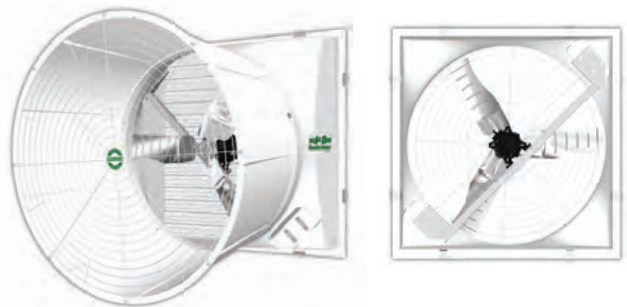
EXHAUST FANS

Part #	Sz	Spd	@ 0.10" SP			Drive	Prop	
			CFM	Watt	FEI			
Single Phase								
Aluminum Shutter								
VSA55G3CPM221AG-SL	55"	1/V^	100%	31,813	17.1	2.00	PM-D	3-Glv
			90%	27,994	19.9	2.34		
			80%	24,160	23.8	2.84		
			70%	19,709	27.0	3.26		
			60%	14,773	29.9	3.72		
Poly Shutter								
VSP55G3CPM221AG-SL	55"	1/V^	100%	30,891	16.1	1.88	PM-D	3-Glv
			90%	26,346	18.2	2.15		
			80%	22,167	20.7	2.48		
			70%	17,076	22.2	2.70		
			Three Phase					
Aluminum Shutter								
VSA55G3CPM223BG-SL	55"	1/V^	100%	31,370	17.1	2.00	PM-D	3-Glv
			90%	27,843	20.5	2.41		
			80%	23,700	23.7	2.82		
			70%	19,708	28.2	3.39		
			VSA55G3CPM223CG-SL	55"	1/V^	100%		
90%	27,735	20.2				2.38		
80%	23,723	23.4				3.24		
70%	19,327	26.8				3.24		
60%	14,969	30.2				3.69		
Poly Shutter								
VSP55G3CPM223BG-SL	55"	1/V^	100%	30,577	16.3	1.90	PM-D	3-Glv
			90%	26,516	18.8	2.22		
			80%	22,242	21.2	2.22		
			70%	17,193	22.8	2.79		
			VSP55G3CPM223CG-SL	55"	1/V^	100%		
90%	26,701	18.5				2.19		
80%	21,823	20.3				2.44		
70%	17,438	22.5				2.72		

\* Experts choice

<sup>^</sup> 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 210-07 standard.**



## Direct Drive Storm Conversion Kit

### Already have a Belt Drive Storm?

**Easily and affordably upgrade your Belt Drive Storm to the Direct Drive Storm today and start reaping the benefits**

#### Incredible energy savings

- Slow down a Direct Drive Storm by only 10% and **save 25% on electricity** while still getting 27,735 CFM @ 0.10" SP
- Slow down a Direct Drive Storm by 30% and **save 62% on electricity** and still achieve an incredible 19,327 CFM @ 0.10" SP

#### Variable Speed

- No VFD needed
- Greater control
- Savings

#### Maintenance-Free

- No belts
- No pulleys
- No greasing

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# Direct Drive Storm Conversion Kit

## Make the Change

Simple and easy  
Upgrade what you have

## Everything to Gain

Improved performance  
Precise control

## Nothing to Maintain

No belts  
No pulleys  
No greasing

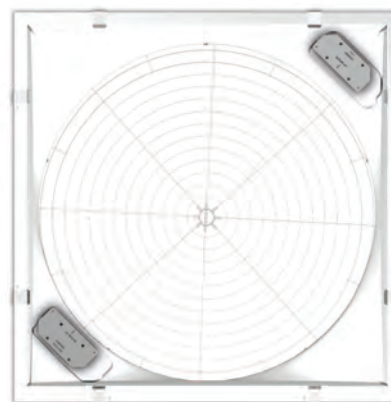


JD-Drive Motor

**IMPROVED**

Now IP66 rated &  
increased efficiency

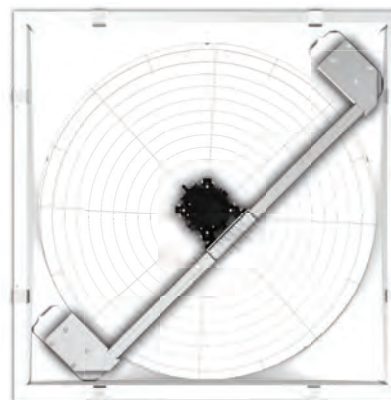
**3 Year Warranty**



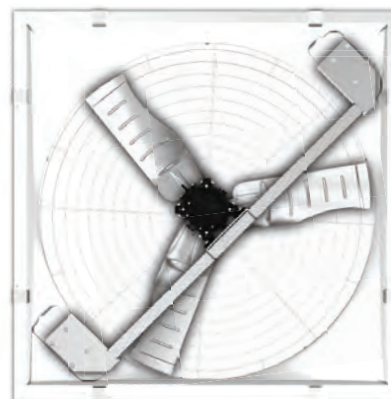
Remove belt  
drive H-frame,  
motor, prop,  
and pulleys



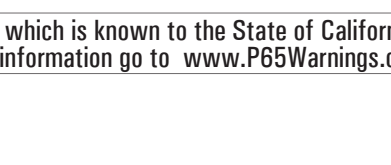
Use drilling  
template to  
create new  
mounting  
holes



Install new  
frame



Attach JD-  
Drive motor  
to frame



Secure prop  
to JD-Drive  
motor shaft

Part #	Spd	Drive	Prop
<b>Single Phase</b>			
VRJ55G3PM221AG	1/V <sup>^</sup>	PM-D	3-Glv
<b>Three Phase wired for 190-240V</b>			
VRJ55G3PM223BG	1/V <sup>^</sup>	PM-D	3-Glv
<b>Three Phase wired for 380-460V</b>			
VRJ55G3PM223CG	1/V <sup>^</sup>	PM-D	3-Glv
<b>Template Kit</b>			
HK225	Drill Templates, BD to DD Retrofit		

<sup>^</sup> Variable speed fans require separate variable speed control to adjust fan speed.

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Storm Torque

## 55" Fiberglass Exhaust Fan with Torque Drive

### Save Time & Money

**No Belts to Change**

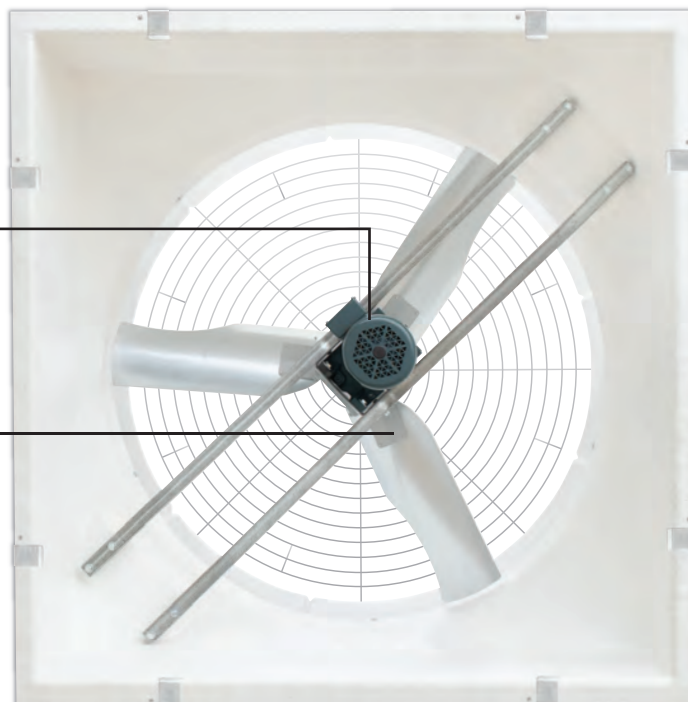
**No Pulleys to Maintain**

**No Greasing Motor or Bearings**

### Features

- Maintains a continuous high level of performance with **no power loss or reduction from aging belts and pulleys**
- VFD (Variable Frequency Drive) compatible and recommended for increased energy savings and longer life (VFD not included)
- Smooth and quiet operation

- Motor**
- Premium-efficient
  - Industrial 2 HP
- Prop**
- High performance
  - 3-blade
  - Galvanized



Shown with shutter removed (Never permit power to fan with shutter removed)

			@ 0.10" SP				
			CFM	Watt	FEI		
Part #	Sz	Spd	CFM	Watt	FEI	Drive	Prop
Three Phase							
Aluminum Shutter							
* VMTA55G3C23-SL	55"	1	29,902	17.7	2.08	Torque	3-Glv
Poly Shutter							
VMTP55G3C23-SL	55"	1	27,986	16.2	1.91	Torque	3-Glv
Accessories							
VRS1260	Shutter Motor Kit, 12"-60" Al. Shutter						
VRS1260-C	Shutter Motor Kit, 12"-60" Al. Shutter, with Cord						
Black Versions (requires extended lead time)							
Add "-B" to end of part # - Example: VMTA55G3C23-SL-B							

\* Experts choice

**Bold red text is data based on testing performed by an accredited lab using ANSI/AMCA 210-07 standard.**

**NOTE:** It is **highly** recommended that a motorized shutter kit be installed to open shutter when fan is operating at 40% or lower



**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Storm

## Belt Drive 55" Fiberglass Exhaust Fan



### Motor

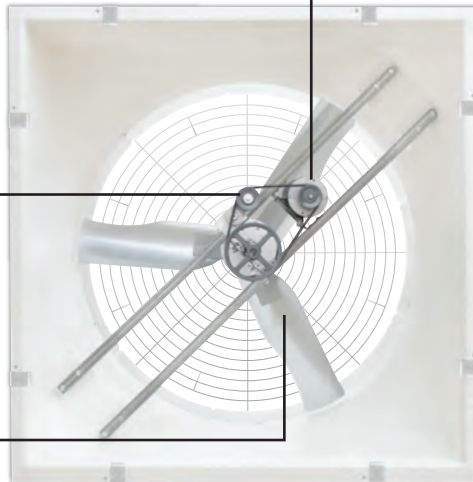
- High-efficiency
- Totally enclosed
- 1 HP, 1½ HP, or 2 HP
- Covered by a **2 Year Warranty**

### Belt Tensioner

- Automotive style
- Toolless belt changing

### Prop Options

- High-performance cast-aluminum prop with **Lifetime Warranty**
- Galvanized prop with **1 Year Warranty**



Shown with shutter removed

(Never permit power to fan with shutter removed)

### Shaft Bearings

- Pre-lubricated
- Featuring an eccentric locking collar with set screw
- Permanently sealed and rubber mounted for smooth operation
- Covered by a **3 Year Warranty**



Part #	Sz	Spd	@ 0.10" SP			Drive	Prop
			CFM	Watt	FEI		
Single Phase							
Aluminum Shutter							
VSA55G3C11E-SL	55"	1	21,189	23.4	2.78	Belt	3-Glv
VSA55A3C151-SL	55"	1	24,056	19.0	2.25	Belt	3-CA
VSA55G3C151-SL	55"	1	23,985	21.8	2.58	Belt	3-Glv
VSA55A3C21-SL	55"	1	28,347	13.8	1.62	Belt	3-CA
VSA55G3C21-SL	55"	1	27,546	16.1	1.89	Belt	3-Glv
Poly Shutter							
VSP55G3C11E-SL	55"	1	19,799	21.3	2.58	Belt	3-Glv
VSP55A3C151-SL	55"	1	22,348	17.6	2.10	Belt	3-CA
VSP55G3C151-SL	55"	1	22,903	20.4	2.42	Belt	3-Glv
VSP55A3C21-SL	55"	1	27,087	13.2	1.55	Belt	3-CA
VSP55G3C21-SL	55"	1	26,601	15.2	1.79	Belt	3-Glv
Three Phase							
Aluminum Shutter							
VSA55A3C153-SL	55"	1	23,774	19.3	2.30	Belt	3-CA
VSA55G3C153E-SL	55"	1	23,844	22.0	2.62	Belt	3-Glv
VSA55A3C23-SL	55"	1	31,060	13.6	1.59	Belt	3-CA
VSA55A3C23E-SL	55"	1	28,515	15.4	1.80	Belt	3-CA
VSA55G3C23-SL	55"	1	31,402	16.0	1.86	Belt	3-Glv
VSA55G3C23E-SL	55"	1	26,411	20.6	2.43	Belt	3-Glv
Poly Shutter							
VSP55A3C153-SL	55"	1	22,624	17.9	2.14	Belt	3-CA
VSP55G3C153E-SL	55"	1	22,746	20.5	2.46	Belt	3-Glv
VSP55A3C23-SL	55"	1	30,058	12.8	1.51	Belt	3-CA
VSP55A3C23E-SL	55"	1	27,250	14.7	1.74	Belt	3-CA
VSP55G3C23-SL	55"	1	30,471	15.1	1.76	Belt	3-Glv
VSP55G3C23E-SL	55"	1	25,475	19.5	2.29	Belt	3-Glv

### Non Slant Wall Versions

Remove "-SL" at end of part # - Example: VSP55A3C23

**Black Versions** (requires extended lead time)

Add "-B" to end of part # - Example: VSP55A3C23-SL-B

\* Experts choice

**Bold red text is data based on testing performed by an accredited lab using ANSI/AMCA 210-07 standard.**

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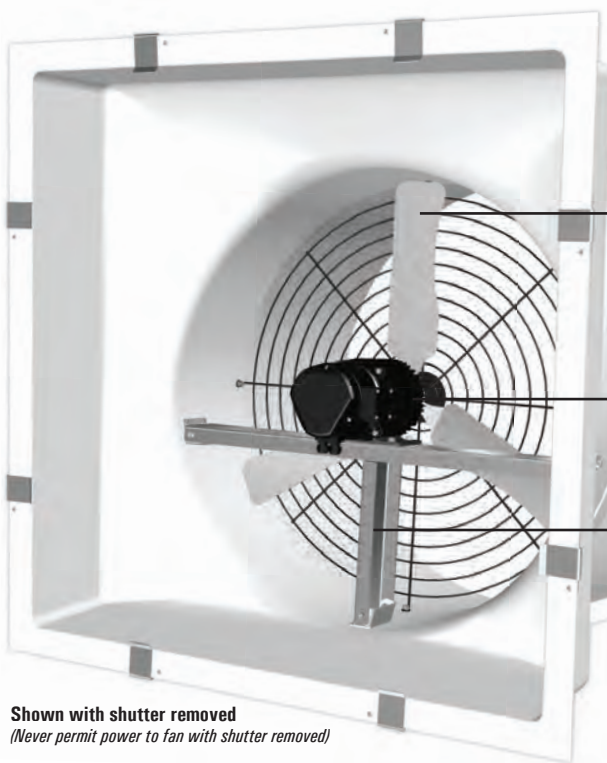
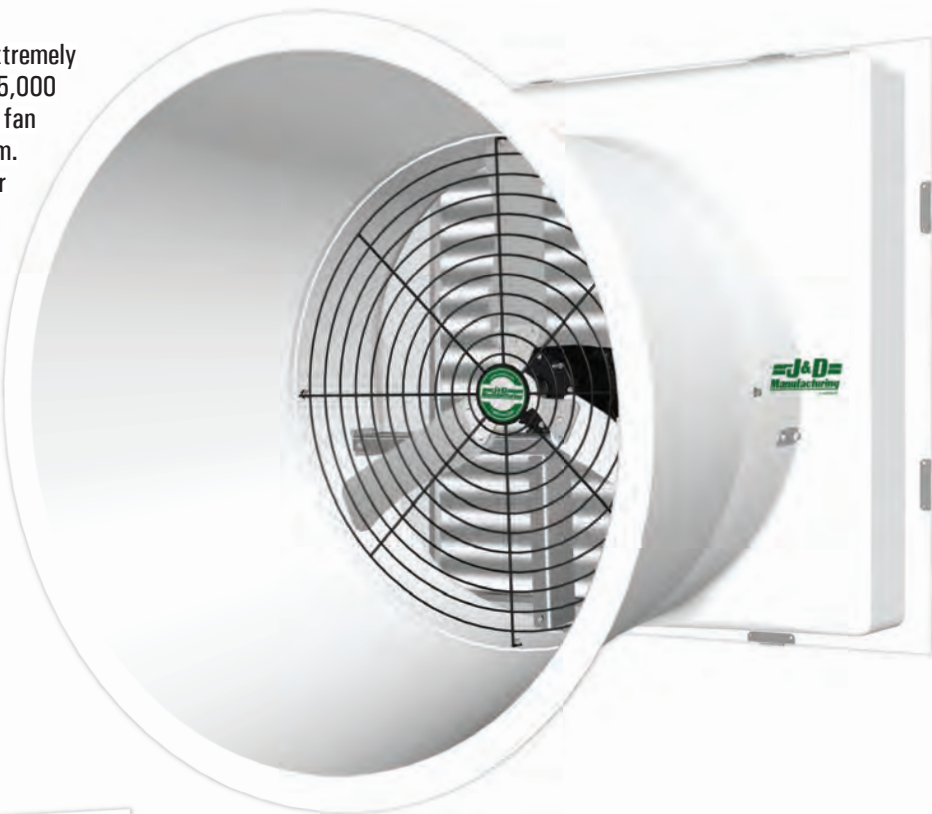


# Legend 36"

## Variable Speed Direct Drive Fiberglass Exhaust Fan

A new line of fans is here. The Legend is an extremely versatile exhaust fan, capable of producing 5,000 CFM – 14,000 CFM at 0.05" SP, making this fan an ideal addition to your ventilation system. Producers still need ventilation in the winter months to exhaust stale, gas ridden air out of their barn or building. Slow down the Legend so you still get rid of the stale air, all while not creating a cold draft for your animals. Then in the summer months, ramp up the speed to provide a cool breeze.

**5,000-14,000  
CFM @  
0.05" SP**



Shown with shutter removed  
(Never permit power to fan with shutter removed)

### Prop

- 3-blade
- Corrosion-resistants 304 stainless-steel

### Motor

- Permanent magnet direct drive
  - No belts, pulleys, or tensioners to maintain
- Internal Motor Drive - no VFD needed
  - Provides soft starts
  - Enables variable speed
  - Allows for precise and uniform speed control
- IP66-Rated
- Totally enclosed, maintenance-free, high-efficiency motors have completely sealed ball bearings, are CSA recognized, and are covered by a **2 Year Warranty**

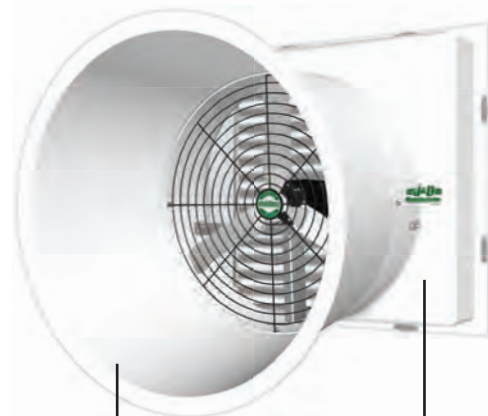
### Frame

- 10 gauge for strength
- Corrosion-resistants 304 stainless-steel

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# Legend 36"

Part #	Sz	Spd	@ 0.05" SP			@ 0.10" SP			Drive	Prop	
			CFM	CFM/ Watt	FEI	CFM	CFM/ Watt	FEI			
Single Phase											
With Cone											
Aluminum Shutter											
VLA36S3C11A-PM	36"	1/V^	100%	14,004	16.1	1.79	13,154	14.6	1.83	PM-DD	3-SS
			90%	12,303	19.8	2.26	11,654	17.7	2.24		
			80%	10,690	24.2	2.81	10,003	21.4	2.75		
			70%	8,929	29.1	3.45	7,917	24.1	3.19		
			60%	7,097	33.8	4.12	5,623	25.1	3.48		
Poly Shutter											
VLP36S3C11A-PM	36"	1/V^	100%	13,733	15.8	1.77	13,085	14.3	1.79	PM-DD	3-SS
			90%	11,829	18.6	2.14	11,171	16.8	2.13		
			80%	10,248	23.3	2.14	9,352	19.9	2.13		
			70%	8,414	27.6	3.29	7,210	22.1	2.96		
			60%	6,483	31.3	3.86	4,720	20.9	2.97		
No Cone											
Aluminum Shutter											
VLA36S3N11A-PM	36"	1/V^	100%	12,855	14.1	1.61	12,294	13.0	1.63	PM-DD	3-SS
			90%	11,318	17.1	1.96	10,656	15.4	1.96		
			80%	9,733	21.4	2.50	8,753	18.3	2.39		
			70%	7,824	25.3	3.04	6,751	20.7	2.80		
			60%	6,065	29.3	3.66	4,782	21.6	3.07		
Poly Shutter											
VLP36S3N11A-PM	36"	1/V^	100%	12,535	13.4	1.53	11,872	12.3	1.55	PM-DD	3-SS
			90%	10,864	16.3	1.53	10,117	14.6	1.55		
			80%	9,161	19.9	2.35	8,362	17.6	2.30		
			70%	7,542	24.1	2.92	6,433	19.5	2.65		
			60%	5,707	27.3	3.45	4,392	19.5	2.82		
Three Phase											
With Cone											
Aluminum Shutter											
VLA36S3C13B-PM	36"	1/V^	100%	12,072	16.6	1.89	11,531	15.2	1.92	PM-DD	3-SS
			90%	11,194	18.6	2.15	10,663	16.9	2.16		
			80%	9,665	23.2	2.70	9,001	20.4	2.66		
			70%	8,021	28.2	3.44	7,109	23.6	3.17		
			60%	6,171	32.3	4.04	5,084	25.3	3.58		
Poly Shutter											
VLP36S3C13B-PM	36"	1/V^	100%	11,842	16.2	1.86	11,384	14.9	1.90	PM-DD	3-SS
			90%	10,894	17.9	2.06	10,402	16.4	2.11		
			80%	9,392	22.2	2.63	8,616	19.2	2.50		
			70%	7,671	26.9	3.19	6,819	22.8	3.06		
			60%	5,845	30.6	3.86	4,687	23.2	3.34		
No Cone											
Aluminum Shutter											
VLA36S3N13B-PM	36"	1/V^	100%	11,548	15.3	1.77	11,011	14.1	1.79	PM-DD	3-SS
			90%	10,712	17.1	1.97	10,173	15.7	2.01		
			80%	9,155	21.2	2.51	8,535	19.0	2.48		
			70%	7,533	25.9	3.14	6,729	22.1	3.03		
			60%	5,812	30.4	3.84	4,788	24.0	3.40		
Poly Shutter											
VLP36S3N13B-PM	36"	1/V^	100%	11,247	14.5	1.72	10,780	13.5	1.72	PM-DD	3-SS
			90%	10,424	16.2	1.89	9,828	14.7	1.92		
			80%	8,916	20.2	2.40	8,230	17.8	2.35		
			70%	7,256	24.5	2.94	6,501	21.0	2.84		
			60%	5,583	28.6	3.72	4,451	21.8	3.20		



## Fiberglass Housing

- UV-resistant for long life
- Smooth exterior for easy cleaning

## Optional Cone

- One piece poly

## Shutter Options

- Aluminum
- Poly

Available in black.



When ordering black models add "-B" to the end of the part#.

Rough Opening - 44½" W x 44½" H  
 Side-By-Side Recommended OC Dimension  
 for Fan with Cone - Minimum 50"

<sup>^</sup> 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 210-07 standard.**

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# Tornado Fiberglass Exhaust Fan

J&D Manufacturing's Tornado exhaust fan is made to withstand even the harshest agricultural environments. With it's stainless-steel mounts and corrosion-resistant fiberglass housing with gel coat for easy cleaning and minimal dirt build-up, the Tornado exhaust fan will provide many years of high performance ventilation.



Select 20"-36" models feature

**J&D's IP66-Rated Gold Star Motor**

Dust tight  
Can be washed down from any angle

Powerful, direct drive

## Features

- Available in 12", 16", 20", 24", 36", and 50"
- **20 Year Warranty** on fiberglass housing
- Rust-free, corrosion-free, molded fiberglass housing with gel coat for low maintenance
- Stainless-steel internal frame and hardware for corrosion resistance
- Your choice of poly or aluminum shutter
- Spring belt tensioner on 50" belt drive models
- Slant wall housing for more efficient airflow
- Performance-enhancing poly cones available on 20"-50" fans
- 36" models are available with galvanized, nylon, or stainless-steel prop
- **Lifetime Warranty** on cast-aluminum props, available on select 50" models
- 50" belt drive model's bearings are eccentric locking, pre-lubricated, permanently sealed and rubber mounted to improve operation and reduce prop fatigue and are covered by a **3 Year Warranty**
- Totally enclosed, maintenance-free, high-efficiency motors
  - Select 20"-36" models use J&D's Gold Star, direct drive, IP66-Rated, CSA recognized motor covered by a **3 Year Warranty**
  - Standard models use motors that have completely sealed ball bearings, are UL and CUL recognized, and are covered by a **2 Year Warranty**



**50" Model with Poly Cone**



**12"-16" Models**



**20"-24" Models**



**Black 36" Model with Cone**

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# Tornado Fiberglass Exhaust Fan



Select 20" – 36" models feature J&D's Gold Star Motor

• Powerful, direct drive, **IP66-Rated**

- Dust tight
- Can be washed down from any angle

Part #	Sz	Spd	@0.10" SP			Drive	Prop
			CFM	CFM/ Watt	FEI		
Single Phase							
No Cone							
Aluminum Shutter							
VFA12A	12"	1/V^	751	8.8	N/A	Direct	3-Alm
VFA12P	12"	1/V^	1,020	6.0	N/A	Direct	3-Ply
VFA16A	16"	1	2,315	9.0	N/A	Direct	3-Alm
VFA16P	16"	1	2,412	8.2	N/A	Direct	3-Ply
VFA20P-GS	20"	1	3,968	8.3	N/A	Direct	3-Ply
VFA24P-GS	24"	1	5,320	9.5	N/A	Direct	2-Ply
VFA24A-GS	24"	1	5,339	11.0	N/A	Direct	3-Alm
VFA36G-GS	36"	1	7,464	13.9	N/A	Direct	3-Glv
VFA36N-GS	36"	1	9,008	15.5	N/A	Direct	2-Nyl
VFA50A	50"	1	18,357	16.7	2.02	Belt	3-CA
VFA50A6	50"	1	18,635	16.5	2.00	Belt	6-Glv
Poly Shutter							
VFP12A	12"	1/V^	693	7.9	N/A	Direct	3-Alm
VFP12P	12"	1/V^	546	3.4	N/A	Direct	3-Ply
VFP16A	16"	1	2,169	8.3	N/A	Direct	3-Alm
VFP16P	16"	1	2,087	7.6	N/A	Direct	3-Ply
VFP20P-GS	20"	1	3,798	8.0	N/A	Direct	3-Ply
VFP24P-GS	24"	1	4,867	8.8	N/A	Direct	2-Ply
VFP24A-GS	24"	1	5,192	10.5	N/A	Direct	3-Alm
VFP36G-GS	36"	1	7,068	12.9	N/A	Direct	3-Glv
VFP36N-GS	36"	1	7,503	12.7	N/A	Direct	2-Nyl
With Cone							
Aluminum Shutter							
VFA20PC-GS	20"	1	4,564	9.8	N/A	Direct	3-Ply
VFA24PC-GS	24"	1	6,437	11.6	N/A	Direct	2-Ply
VFA24AC-GS	24"	1	5,774	13.1	N/A	Direct	3-Alm
VFA36GC-GS	36"	1	8,295	15.9	N/A	Direct	3-Glv
VFA36NC-GS	36"	1	9,100	15.8	N/A	Direct	2-Nyl
VFA36SC-GS	36"	1	8,172	15.8	N/A	Direct	3-SS
VFA50AC	50"	1	19,578	18.1	2.19	Belt	3-CA
VFA50GC	50"	1	20,117	18.0	2.16	Belt	3-Glv
VFA50AC2	50"	2(H) (L)	17,511 3,962	18.3 7.5	2.23 0.55	Belt	3-CA
VFA50A62	50"	2(H) (L)	19,937 5,665	18.4 10.1	2.20 1.52	Belt	6-Glv
VFA50GC2	50"	2(H) (L)	18,163 4,112	18.4 7.6	2.20 0.53	Belt	3-Glv
Poly Shutter							
VFP20PC-GS	20"	1	4,411	9.3	N/A	Direct	3-Ply
VFP24PC-GS	24"	1	5,884	10.4	N/A	Direct	2-Ply
VFP24AC-GS	24"	1	5,572	12.2	N/A	Direct	3-Alm
VFP36GC-GS	36"	1	7,524	14.2	N/A	Direct	3-Glv
VFP36NC-GS	36"	1	8,113	13.9	N/A	Direct	2-Nyl
VFP36SC-GS	36"	1	7,533	14.3	N/A	Direct	3-SS
VFP50AC	50"	1	18,111	16.6	2.01	Belt	3-CA
VFP50GC	50"	1	18,722	16.3	1.97	Belt	3-Glv

Part #	Sz	Spd	@0.10" SP			Drive	Prop
			CFM	Watt	FEI		
Three Phase							
No Cone							
Aluminum Shutter							
VFA16A3	16"	1	2,356	9.9	N/A	Direct	3-Alm
VFA16P3	16"	1	2,553	9.2	N/A	Direct	3-Ply
VFA36G3-GS	36"	1	8,202	15.1	N/A	Direct	3-Glv
VFA36N3-GS	36"	1	8,554	14.2	N/A	Direct	2-Nyl
VFA50A3	50"	1	16,654	17.9	2.18	Belt	3-CA
Poly Shutter							
VFP16A3	16"	1	2,248	9.3	N/A	Direct	3-Alm
VFP16P3	16"	1	2,268	8.5	N/A	Direct	3-Ply
VFP36G3-GS	36"	1	7,701	13.7	N/A	Direct	3-Glv
VFP36N3-GS	36"	1	7,859	13.2	N/A	Direct	2-Nyl
VFP50G3	50"	1	15,567	16.0	1.96	Belt	3-Glv
With Cone							
Aluminum Shutter							
VFA24AC3	24"	1	5,267	14.2	N/A	Direct	3-Alm
VFA36GC3-GS	36"	1	9,694	18.0	N/A	Direct	3-Glv
VFA36NC3-GSE	36"	1	9,114	17.5	N/A	Direct	2-Nyl
VFA36NC3-GSH	36"	1	9,807	16.7	N/A	Direct	2-Nyl
VFA36SC3-GS	36"	1	8,396	18.6	N/A	Direct	3-SS
VFA50AC3	50"	1	18,468	20.5	2.45	Belt	3-CA
VFA50GC3	50"	1	18,170	20.5	2.46	Belt	3-Glv
Poly Shutter							
VFP24PC3	24"	1	5,626	11.0	N/A	Direct	4-Ply
VFP36GC3-GS	36"	1	8,664	15.7	N/A	Direct	3-Glv
VFP36NC3-GSE	36"	1	8,112	15.2	N/A	Direct	2-Nyl
VFP36NC3-GSH	36"	1	8,858	14.9	N/A	Direct	2-Nyl
VFP36SC3-GS	36"	1	7,492	16.0	N/A	Direct	3-SS
VFP50AC3	50"	1	15,705	17.0	2.11	Belt	3-CA
VFP50GC3	50"	1	15,858	17.2	2.09	Belt	3-Glv

\* Experts choice

^ 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 210-07**

36" and 55" available  
in black. When ordering  
black models add "-B"  
to the end of the part#



Fan Size	Rough Opening	Minimum Distance Between Openings
12"	17½"W x 18½"H	Fans with a cone require a minimum spacing between rough openings to accommodate width of cones
16"	21½"W x 23"H	
20"	25¾"W x 25¾"H	
24"	31½"W x 31½"H	3¼"
36"	44"W x 44"H	9"
50"	56"W x 56"H	10"

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



**Light Trap Combination System**

- Two sizes to choose from, 36" or 55"
- Fiberglass housing and poly cone will never rust or rot
- Slant wall housing for more efficient airflow
- Heavy gauge guard is hot dip galvanized after welding
- Choose poly or aluminum shutters

**36" Tornado****55" Storm**

For more information see Light Trap Combination System pages



# Light Trap Combination System

We provide tested data on each of our Light Trap Combination Systems, making it easy to design and meet your ventilation needs with confidence.

## RELIABLE SYSTEM DATA

- No more tough calculations
- No more guesswork
- No more estimates

## Features

### Transition

- Allows for a larger light trap maximizing airflow to the exhaust fan
- Mounts flush to interior wall eliminating obstructions and surfaces for debris to collect on
- Provides for an easy exterior mounting of the exhaust fan reducing interference with interior activity
- Constructed of durable fiberglass ensuring a future free of rust and corrosion

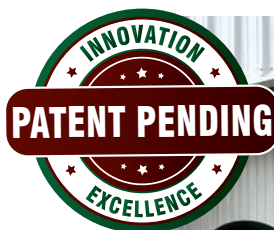
### Light Trap

- Light trap profiles are matte black, contoured, and assembled to minimize light reflection
- Light trap panel components are molded from chemical-resistant PVC and able to withstand high pressure washing
- **Light trap doors are hinged to allow for easy access for cleaning and maintenance of all components of the system**
- The stainless-steel light trap door frame secures and protects the fully assembled light trap panel

### Exhaust Fans

- Two sizes to choose from, 36" or 55"
- Fiberglass housing and poly cone will never rust or rot
- Slant wall housing for more efficient airflow
- Heavy gauge guard is hot dip galvanized after welding
- Choose poly or aluminum shutters

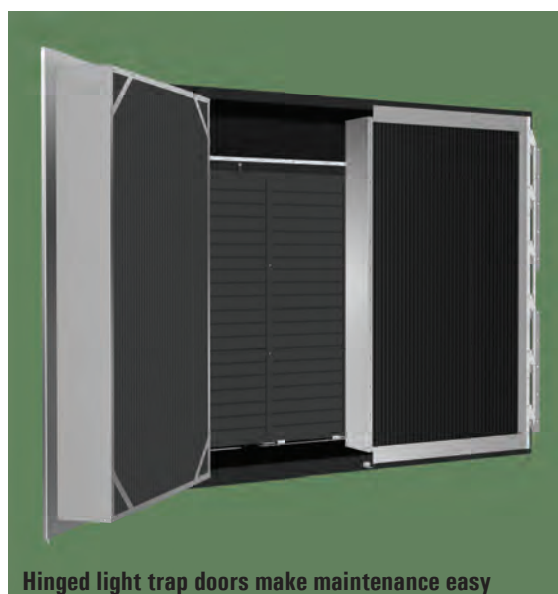
**Don't waste  
space and money  
building a light  
trap wall**



36" Light Trap Combination System



55" Light Trap Combination System



Hinged light trap doors make maintenance easy

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# Light Trap Combination System

EXHAUST FANS

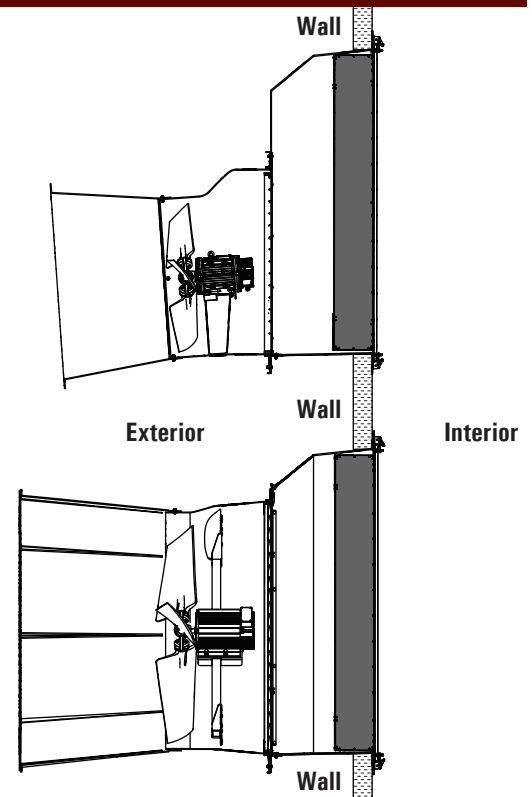


- Mounts flush to interior wall
- No interior obstructions
- Easy to maintain

## VARIABLE SPEED DIRECT DRIVE MODELS

- No Belts
- No Pulleys
- No Greasing
- No VFD

**All the air control with  
none of the hassles.**



**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Light Trap Combination Systems

**Tested data is of fully assembled combination system with fan, transition, and light trap**

Part #	Sz	Spd	@ 0.10" SP				Drive	Prop
			CFM	Watt	FEI			
36" Exhaust Fans								
Three Phase								
Poly Shutter								
VLTP36P3C223C-PM	36"	1/V^	100%	17,326	9.9	1.20	PM-D	3-Ply
			90%	15,182	11.5	1.42		
			80%	13,023	13.5	1.69		
			70%	10,541	15.4	1.97		
			60%	7,988	17.0	2.25		
Aluminum Shutter								
VLTA36P3C223C-PM	36"	1/V^	100%	17,082	9.7	1.18	PM-D	3-Ply
			90%	15,144	11.3	1.39		
			80%	13,129	13.5	1.68		
			70%	11,118	16.0	2.03		
			60%	8,659	18.6	2.43		
36" Transition								
TRANSITION-36	Transition, Fiberglass Light Trap, for 36" VFT Light Trap Exhaust Fans, with Fan Mounting Brackets							
Light Trap								
LTH8370	Light Trap Door Assembly, with Stainless-Steel Frame (set of 2)							

Part #	Sz	Spd	@ 0.10" SP			Drive	Prop	
			CFM	Watt	FEI			
55" Exhaust Fan								
Single Phase								
Poly Shutter								
VSTP55A3C21-SL	55"	1	23,418	12.1	1.55	Belt	3-CA	
VSTP55P3CPM221A-SL	55"	1/V^	100%	28,079	12.4	1.45	PM-D	3-Ply
			90%	24,261	14.6	1.74		
			80%	20,411	17.0	2.06		
			70%	16,762	19.2	2.35		
			60%	11,830	21.2	2.68		
Aluminum Shutter								
VSTA55A3C21-SL	55"	1	24,740	13.0	1.55	Belt	3-CA	
VSTA55P3CPM221A-SL	55"	1/V^	100%	29,290	13.3	1.56	PM-D	3-Ply
			90%	25,181	16.0	1.90		
			80%	21,726	19.3	2.30		
			70%	18,746	22.2	2.69		
			60%	13,579	26.1	3.24		

Part #	Sz	Spd	@ 0.10" SP			Drive	Prop	
			CFM	Watt	FEI			
55" Exhaust Fan								
Three Phase								
Poly Shutter								
VSTP55A3C23-SL	55"	1	24,528	12.2	1.46	Belt	3-CA	
VSTP55P3CPM223B-SL	55"	1/V^	100%	28,526	12.2	1.44	PM-D	3-Ply
			90%	24,274	14.3	1.72		
			80%	20,394	17.1	2.06		
			70%	16,218	19.7	2.41		
			60%	11,738	21.8	2.75		
VSTP55P3CPM223C-SL	55"	1/V^	100%	27,925	12.2	1.45	PM-D	3-Ply
			90%	24,211	14.0	1.67		
			80%	20,187	16.9	2.04		
			70%	16,325	19.2	2.35		
			60%	11,831	20.9	2.64		
VSTP55P3CPM403C-SL	55"	1/V^	100%	32,209	11.3	1.32	PM-D	3-Ply
			90%	28,205	13.7	1.61		
			80%	23,927	15.8	1.88		
			70%	19,275	17.7	2.14		
			60%	13,903	18.4	2.14		
Aluminum Shutter								
VSTA55A3C23-SL	55"	1	26,365	13.3	1.57	Belt	3-CA	
VSTA55P3CPM223B-SL	55"	1/V^	100%	29,245	13.1	1.54	PM-D	3-Ply
			90%	25,247	15.9	1.90		
			80%	21,745	19.2	2.30		
			70%	17,983	22.9	2.78		
			60%	12,956	25.4	3.17		
VSTA55P3CPM223C-SL	55"	1/V^	100%	27,889	13.8	1.64	PM-D	3-Ply
			90%	25,647	15.2	1.82		
			80%	21,902	18.8	2.24		
			70%	18,265	22.5	2.73		
			60%	13,929	25.5	3.17		
VSTA55P3CPM403C-SL	55"	1/V^	100%	34,256	11.8	1.38	PM-D	3-Ply
			90%	30,333	14.2	1.67		
			80%	26,259	16.7	1.97		
			70%	21,828	19.6	2.34		
			60%	16,974	22.9	2.80		
55" Transition								
TRANSITION-55	Transition, Fiberglass Light Trap, for 55" VST Light Trap Exhaust Fans, with Fan Mounting Brackets							
Light Trap								
LTH8370	Light Trap Door Assembly, with Stainless-Steel Frame (set of 2)							

Check out the incredible performance on our newest models featuring the 4.0kW motor.

★ Experts choice

^ 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 210-07 standard.**

Rough Opening for 36" and 55" Systems: 84¼"W x 72"H

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# Cone Covers

J&D's Cone Covers are an easy and inexpensive way to improve winter ventilation and protect your fans and building from inclement weather and pests.

- Blocks wind, rain, snow, sleet, and ice from entering your fans and building
- Discourages entry by birds and rodents
- Aids in limiting uncontrolled air infiltration



**Dynamic Cross Tunnel Winter Ventilation:** With cone covers minimizing air infiltration, air draw can be maximized to pull moisture and bad air out, ensuring a healthier environment.



## Cover Material

- Face is tough 12oz reinforced woven polyethylene
- Uniquely engineered coating with UV inhibitor for maximum durability, strength, and long life
- Translucent white

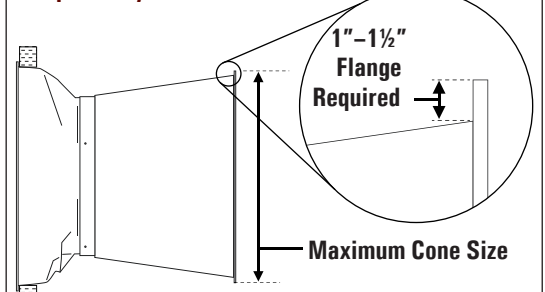
## Securing Strap

- 1" wide
- UV-resistant polyester webbing
- Resists water absorption to prevent mold, mildew or rot
- Abrasion-resistant
- Over 2,000 lb tensile strength
- Heat sealed edge to prevent fraying

## Buckle

- Side release
- Adjustable double pull
- UV coated nylon

## Requirements and restrictions for compatibility with other fans



Part #	Description	J&D Compatible Fans
FCC120-64	Fits Cone with Max OD of 64"	50" Tornado
FCC120-68	Fits Cone with Max OD of 68"	55" Storm Series of Fans
FCC120-80.5	Fits Cone with Max OD of 80.5"	72" Mega Series of Fans



# Static HT 50" and 55" Exhaust Fan

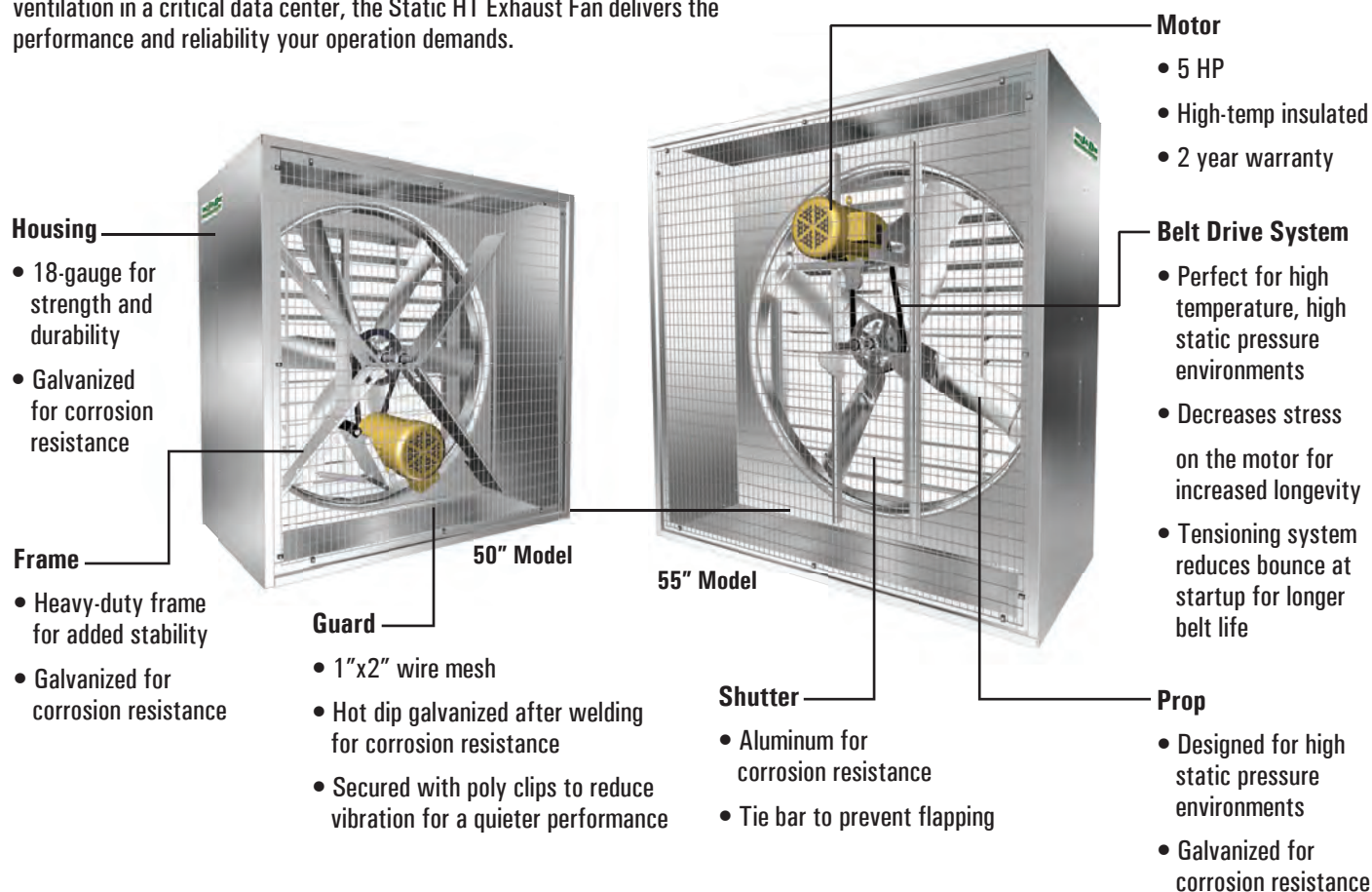
When your operation requires top-tier performance under intense conditions, the Static HT Exhaust Fan is the ultimate solution. Designed for challenging environments such as industrial facilities, foundries, and high-demand data centers, Static HT ensures optimal ventilation to keep your systems running efficiently and reliably.

High temperatures and static pressure can hinder performance and compromise equipment longevity, which is why the Ventilation Experts at J&D developed Static HT. With this fan, you can achieve:

- Enhanced operational efficiency
- Reduced equipment stress and maintenance
- Improved reliability and protection of critical systems
- Decreased downtime for uninterrupted productivity

Whether you're managing a high-heat industrial process or ensuring proper ventilation in a critical data center, the Static HT Exhaust Fan delivers the performance and reliability your operation demands.

**Engineered for  
high-temperature,  
high-static pressure  
environments.**



Part#	Size	Ph	Spd	@ 0.10" SP			@ 0.25" SP			@ 0.50" SP			Drive	Prop	Fan Size	Rough Opening
				CFM	CFM/ Watt	FEI	CFM	CFM/ Watt	FEI	CFM	CFM/ Watt	FEI				
Three Phase																
VFC503G6	50"	3	1	26,570	8.4	0.99	22,642	7.0	1.07	13,463	4.0	0.85	Belt	6-Glv	50"	54¾"W x 54¾"H
VFC553G4	55"	3	1	33,171	9.3	1.09	29,015	7.7	1.16	20,099	5.1	1.07	Belt	4-Glv	55"	66¼"W x 66¼"H

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# Typhoon

## Slant Wall Exhaust Fan

The Typhoon slant wall exhaust fan from J&D Manufacturing has a heavy gauge galvanized housing and X-frame motor mount to provide a solid structure. Typhoon fans include an aluminum shutter with tie bar and galvanized shutter clips to hold the shutter tight to the frame for less vibration. With a quick twist of the clips, the shutter can be removed for easy cleaning and maintenance. Typhoons are designed for exceptional performance, low maintenance, and low operating cost.

### Features

- Heavy-duty 18-gauge galvanized housing
- Smooth spun venturi to maximize airflow
- Rugged X-frame motor mount for stability and quiet operation
- Available with or without a performance boosting cone
- No cone models include a 1" x 2" wire mesh guard that is hot dip galvanized after welding for superior corrosion resistance and is attached with plastic guard clips to reduce noise and vibration
- Cone models include a hot dip galvanized safety cone guard
- Optional ½" x 1" guard available to mount on the intake side to meet OSHA requirements (*allowing safe fan installation at any height*)
- Ships fully assembled except shutter and/or cone
- 3, 4, or 6 blade galvanized or 3-blade cast-aluminum props
- **Lifetime Warranty** on 3-blade cast-aluminum props, available on select 50" models
- Spring belt tensioning system on all belt drive models
- 2-speed and variable speed motors available on select models (*variable speed requires separate speed control*)
- Shaft bearings are pre-lubricated, permanently sealed and rubber mounted with an eccentric locking double set screw collar for smooth operation, and are covered by a **3 Year Warranty**
- Totally enclosed, maintenance-free, high-efficiency motors have completely sealed ball bearings, and are covered by a **2 Year Warranty**



Model  
without cone

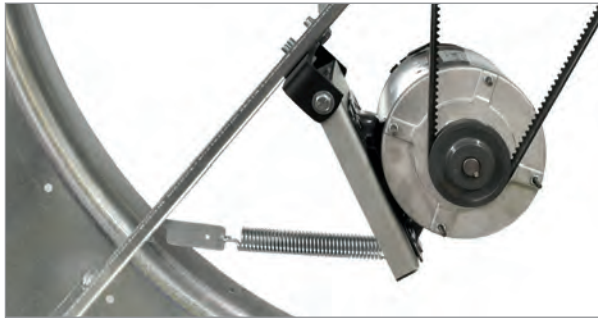


Model  
with cone

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# Typhoon

## Slant Wall Exhaust Fan



Belt drive models include a heavy-duty spring belt tensioner to reduce bounce at start-up and provide uniform loading to increase the life of the belt and maintain high efficiency.



No cone models come with 1" x 2" wire mesh guards that are hot dip galvanized after welding. The guard is attached to the housing with poly guard clips to reduce noise and vibration.

Part#	Sz	Spd	@0.10" SP			Drive	Prop
			CFM	Watt	FEI		
Single Phase							
No Cone							
VNS24S	24"	1	4,431	11.5	N/A	Direct	3-Alm
VNS30S850	30"	1	6,604	12.2	N/A	Direct	3-Alm
VNS36D	36"	1	7,749	14.1	N/A	Direct	3-Glv
VNS36S	36"	1	8,085	12.0	N/A	Belt	4-Glv
VNS36S1	36"	1	12,371	11.8	1.48	Belt	4-Glv
VNS42S1	42"	1	14,334	13.9	1.72	Belt	3-Glv
VNS42S2	42"	2(H) (L)	14,157 4,543	13.6 8.7	1.68 1.24	Belt	3-Glv
VNS50S	50"	1	18,279	16.5	2.01	Belt	3-Glv
VNS50S-E	50"	1	15,435	19.8	2.44	Belt	3-Glv
VNS50S2	50"	2(H) (L)	18,294 6,732	16.0 13.1	1.96 1.77	Belt	3-Glv
VNS50S62	50"	2(H) (L)	18,795 7,186	16.1 13.4	1.95 1.79	Belt	6-Glv
VNS50CSCA	50"	1	18,411	15.9	1.92	Belt	3-CA
VNS50CSCA-E	50"	1	15,600	20.0	2.44	Belt	3-CA
VNS50S6	50"	1	19,109	16.2	1.96	Belt	6-Glv
With Cone							
VFS24CS	24"	1	4,784	12.2	N/A	Direct	3-Alm
VFS30CS850	30"	1	7,161	13.3	N/A	Direct	3-Alm
VFS36CD	36"	1	8,391	16.2	N/A	Direct	3-Glv
VFS36CS	36"	1	8,926	13.5	N/A	Belt	4-Glv
VFS36CS1	36"	1	12,995	12.7	1.60	Belt	4-Glv
VFS36CS1-E	36"	1	10,158	17.0	2.18	Belt	3-Glv
VFS42CS	42"	1	14,950	14.4	1.78	Belt	3-Glv
VFS50CS	50"	1	19,785	18.6	2.23	Belt	3-Glv
VFS50CSCA	50"	1	19,674	17.5	2.10	Belt	3-CA
VFS50CS2	50"	2(H) (L)	19,103 6,493	17.5 12.3	2.11 1.68	Belt	3-Glv
VFS50CS26	50"	2(H) (L)	19,699 7,878	17.7 14.8	2.13 1.95	Belt	6-Glv

\* Experts choice

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Part#	Sz	Spd	@0.10" SP			Drive	Prop
			CFM	Watt	FEI		
Three Phase							
No Cone							
VNS30S8503	30"	1	6,815	13.3	N/A	Direct	3-Alm
VNS36D3	36"	1	7,974	15.4	N/A	Direct	3-Glv
VNS36S13	36"	1	11,420	11.5	1.46	Belt	4-Glv
VNS42S3	42"	1	13,484	12.5	1.55	Belt	3-Glv
VNS503CSCA	50"	1	18,257	17.3	2.09	Belt	3-CA
VNS503CSCA-E	50"	1	15,288	19.9	2.45	Belt	3-CA
VNS50S3	50"	1	18,390	16.9	2.05	Belt	3-Glv
VNS50S3-E	50"	1	15,432	19.8	2.42	Belt	3-Glv
VNS503S6	50"	1	19,017	17.2	2.08	Belt	6-Glv
With Cone							
VFS36CS13	36"	1	11,855	11.8	1.50	Belt	4-Glv
VFS36CS13-E	36"	1	9,642	18.2	2.34	Belt	4-Glv
VFS42CS3	42"	1	14,264	12.9	1.59	Belt	3-Glv
VFS50CS3	50"	1	19,481	18.7	2.25	Belt	3-Glv
VFS503CS-E	50"	1	18,019	20.8	2.52	Belt	3-Glv
VFS503CS6	50"	1	19,949	17.9	2.16	Belt	6-Glv
VFS503CSCA	50"	1	19,397	18.8	2.28	Belt	3-CA
VFS503CSCA-E	50"	1	16,347	21.9	2.67	Belt	3-CA

Part#	Size
<b>Optional Accessories</b>	
VRGM5555PVC12	Wire Mesh, ½" x 1", 12 Gauge, Black PVC Coated, 55" x 55", Trim to Fit Guard for Shutter Side, Meets OSHA Requirements

### Basic Framing Installation Information

Fan Size	Rough Openings for 6" Thick Wall	Recommended Side By Side OC Dimension for Fans with Cone
24"	31"W x 32"H	34" +
30"	37"W x 38½"H	40" +
36"	41"W x 42¾"H	46" +
42"	49¼"W x 51"H	53" +
50"	55"W x 57"H	60" +

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# Wall Master Exhaust Fan

J&D Manufacturing's Wall Master exhaust fan offers high volume output and smooth, efficient operation. The heavy-duty 18-gauge galvanized housing is strong, compact, and easy to install. J&D's Wall Master is a dependable fan suited for nearly any application.

*When installing any J&D Manufacturing exhaust fan, you must provide a proper inlet. Call us today to help you choose the appropriate inlet and design an efficient ventilation system.*



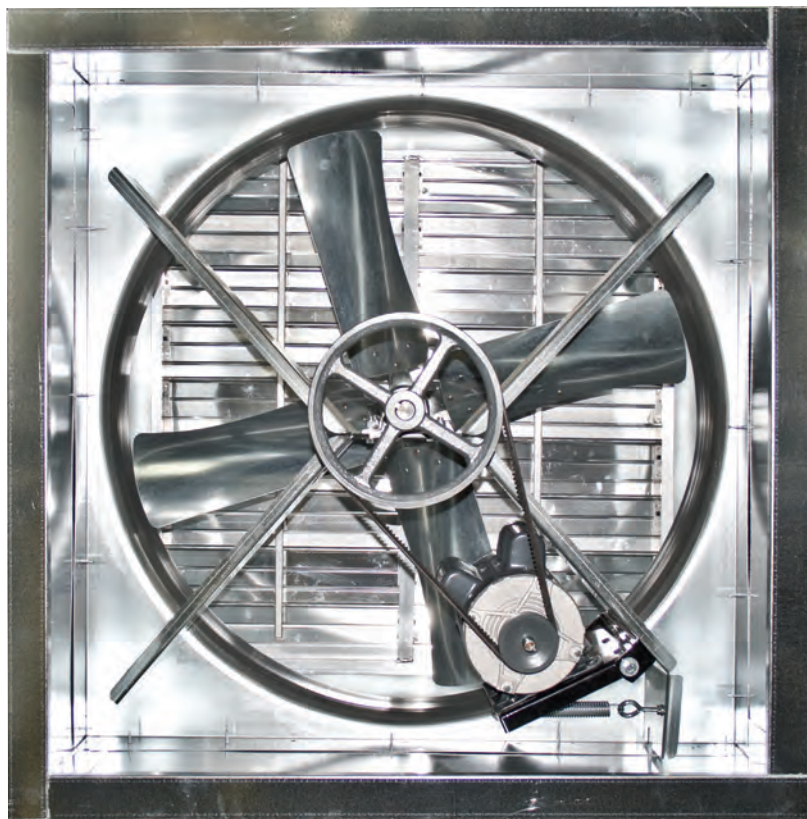
## Features

- Available in 36", 50", and 55" models
- Heavy-duty 18-gauge galvanized housing
- Rugged X-frame for added stability on belt drive models
- Aluminum shutters with tie bar to prevent flapping and locking open
- 1" x 2" removable wire mesh guards are hot dip galvanized after welding
- Poly guard clips to reduce vibration for quiet performance
- 3, 4, or 6 blade galvanized propeller is balanced for smooth operation
- **Lifetime Warranty** on 3-blade cast-aluminum props, available on select 50" models
- Bearings are eccentric locking, pre-lubricated, permanently sealed, and rubber mounted for smooth operation and reduced blade fatigue, and are covered by a **3 Year Warranty**
- Spring belt tensioning system reduces bounce at startup on all belt driven models
- Optional weather hood available for 36" and 50" models to protect fan from severe wind and weather
- Totally enclosed, maintenance-free, high-efficiency motors have completely sealed ball bearings, and are covered by a **2 Year Warranty**



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# Wall Master Exhaust Fan



**Heavy-duty X-frame** - (Shown with guard removed, never permit power to fan with guard removed)



Removable 12-gauge 1" x 2" wire mesh guards are hot dip galvanized after welding. The guard is attached to the housing with poly guard clips to reduce noise and vibration.



Belt drive models include a heavy-duty spring belt tensioner to reduce bounce at startup and provide uniform loading to increase the life of the belt and maintain high efficiency.

Part#	Sz	Spd	@0.10" SP			Drive	Prop
			CFM	Watt	FEI		
Single Phase							
VF36DM	36"	1	7,716	13.8	N/A	Direct	3-Glv
VF36GG	36"	1	5,916	10.7	N/A	Belt	4-Glv
VF36GG1	36"	1	7,854	11.9	1.57	Belt	4-Glv
VF36GG2	36"	2	7,833	11.4	1.50	Belt	4-Glv
VF50GG	50"	1	16,973	15.5	1.90	Belt	3-Glv
VF50GG6	50"	1	17,561	15.1	1.83	Belt	6-Glv
VF50GGCA	50"	1	16,519	15.3	1.87	Belt	3-CA
VF55GG	55"	1	23,061	16.2	1.93	Belt	3-Glv
Three Phase							
VF36DM3CF	36"	1/V^	7,788	15.0	N/A	Direct	3-Glv
VF36GG3	36"	1/V^	7,974	12.9	1.70	Belt	4-Glv
VF503GG	50"	1/V^	16,710	15.6	1.91	Belt	3-Glv
VF503GG6	50"	1/V^	17,419	15.2	1.85	Belt	6-Glv
VF503GGCA	50"	1/V^	17,208	16.0	1.93	Belt	3-CA
VF553GG	55"	1/V^	26,084	13.4	1.58	Belt	3-Glv

\* Experts choice

^ 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 210-07 standard.**

**OSHA requires these fans to be mounted 7' above the floor**

Fan Size	Rough Opening
36"	41"W x 41"H
50"	54¾"W x 54¾"H
55"	66¼"W x 66¼"H

## Optional Weather Hood

If Wall Master is mounted with the shutter side of the fan flush to an exterior wall, a weather hood may be used on the exterior shutter side of the Wall Master to further protect the fan and shutter from severe winds and harsh weather.



Wall Master Fan Size	Weather Hood Part#
36"	VFT140860
50"	VFT140861
55"	N/A

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# ES Shutter Fan

**Housing**

- Heavy-duty
- Galvanized
- 18-gauge

**Guard**

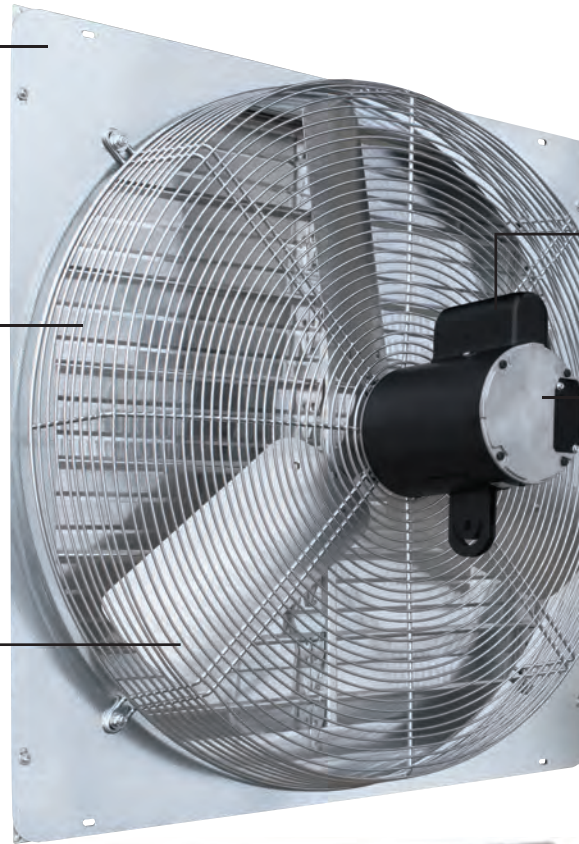
- Meets OSHA 1910.212(a)(5) requirements to mount at any height on inlet side of fan (*shutter side should be 7' above ground*)
- Coated steel guard for easy cleaning
- Strong

**Prop**

- Balanced
- 3-bladed
- Corrosion-resistant coated steel hub

**Shutter**

- High efficiency aluminum
- Fortifying ribs for added strength
- With tie bar to reduce shutter flapping and opening on windy days

**Capacitor**

- Sealed and protected

**Motor**

- High efficiency
- Fully enclosed
- Maintenance-free
- Direct drive
- Standard motors have a **2 Year Warranty**
- Gold Star Motors have a **3 Year Warranty**

**Corded Models**

- Pre-wired for 115V
- 3-prong plug end
- "No Electrician Needed" installation



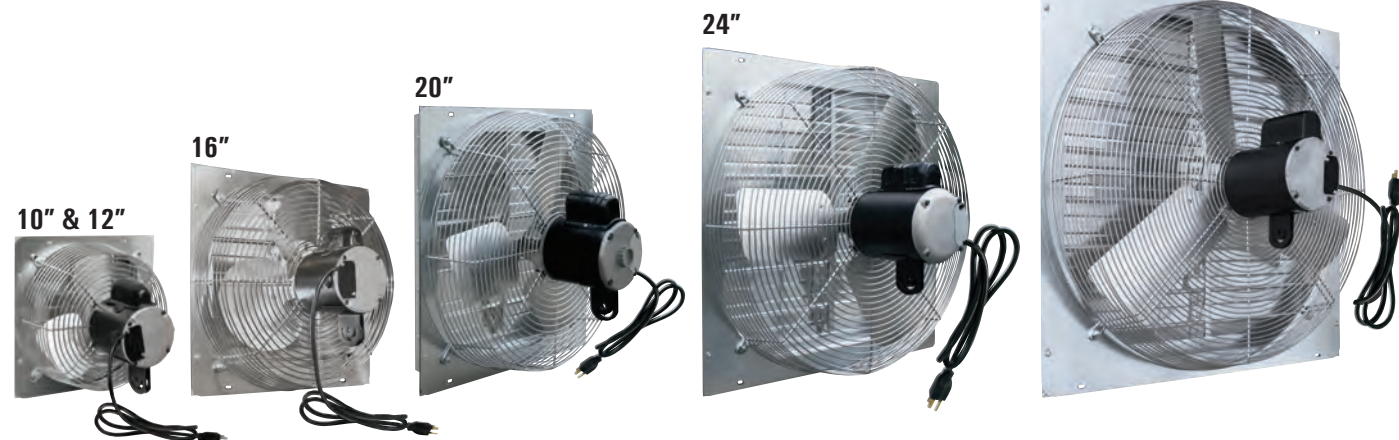
**No  
Electrician  
Needed**  
for Corded Models

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# ES Shutter Fan

J&D Manufacturing's ES Shutter Fan is a durable agriculture grade exhaust fan perfect for barns, greenhouses, building peaks, and more. ES Shutter Fans are available without a cord or pre-wired with a cord and plug for "No Electrician Needed" installation. Fans ship fully assembled out of the box so you're up and running in no time!



## Features

- Smooth and quiet operation
- Ships fully assembled and ready for installation

Part#	Sz	Spd	@0.10" SP		Prop	Rough Opening
			CFM	CFM/ Watt		
With Cord						
Single Phase						
VES10C	10"	3(H) (M) (L)	464 373 293	5.5 7.2 6.4	3-Alm	12½" x 12½"
VES12C	12"	1/V^	748	8.7	3-Alm	12½" x 12½"
VES161C	16"	1/V^	1,034	10.1	3-Alm	16½" x 16½"
VES201C	20"	1/V^	941	9.0	3-Alm	20½" x 20½"
VES20C	20"	1	2,697	8.9	3-Alm	20½" x 20½"
VES24C	24"	1	3,849	7.9	3-Alm	24½" x 24½"
VES30C	30"	1	5,801	11.0	3-Alm	30½" x 30½"
No Cord						
Single Phase						
VES12	12"	1/V^	748	8.7	3-Alm	12½" x 12½"
VES161	16"	1/V^	1,034	10.1	3-Alm	16½" x 16½"
VES201	20"	1/V^	941	9.0	3-Alm	20½" x 20½"
VES20	20"	1	2,697	8.9	3-Alm	20½" x 20½"
VES24	24"	1	3,849	7.9	3-Alm	24½" x 24½"
VES30	30"	1	5,801	11.0	3-Alm	30½" x 30½"
Three Phase						
VES203	20"	1/V^	2,820	10.6	3-Alm	20½" x 20½"
VES243A	24"	1/V^	3,957	8.6	3-Alm	24½" x 24½"
VES303	30"	1/V^	5,749	10.8	3-Alm	30½" x 30½"
VES303-GS	30"	1/V^	5,767	11.4	3-Alm	30½" x 30½"

\* Experts choice

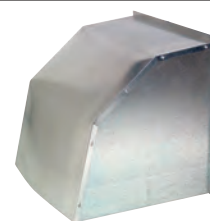
^ Variable speed fans require separate variable speed control to adjust fan speed

**Bold red text is data based on testing performed by an accredited lab using ANSI/AMCA Standard 210-07**



## Optional Weather Hood

Shutter Fan Size	Weather Hood
10"	VFT140855
12"	VFT140855
16"	VFT140856
20"	VFT140857
24"	VFT140858
30"	VFT140859



Weather hood for exterior shutter side of fan

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Indoor/Outdoor ES Shutter Fan W/Cord

Our VPES Indoor/Outdoor series of exhaust fans offers great performance, smooth operation, and a totally enclosed UL507 outdoor certified energy-efficient motor. Each fan has a built-in 9' cord and switch for "No Electrician Needed" installation.

**Pre-wired  
No Electrician  
Needed**



## Features

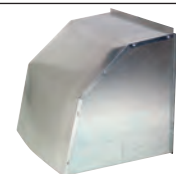
- Available in 12", 16", 20", and 24"
- Smooth and quiet operation
- Direct drive
- Outdoor rated UL507 certified motor
- Ships fully assembled and ready for installation
- Attached 9' pre-wired 115 Volt cord with 3-prong plug for "No Electrician Needed" installation. Just plug it in!
- Balanced 3-blade aluminum prop with a corrosion-resistant coated steel hub
- Coated steel guard allows for easy cleaning and meets OSHA 1910.212(a)(5) requirements to mount at any height on inlet side of fan. (When mounted, shutter side should be 7' above ground.)
- High efficiency aluminum shutters with tie bar reduces shutter flapping and opening on windy days
- Energy-efficient, fully enclosed, maintenance free, high efficiency motors feature sealed ball bearings, and a **2 Year Warranty**
- Optional weather hood for exterior shutter side to protect your fan from harsh weather and severe wind

Part#	Sz	Spd	@0.1" SP		Prop	Rough Opening	Cord
			CFM	Watt			
Single Phase							
VPES12	12"	3(H) (M) (L)	673 505 303	7.8 6.5 5.4	3-Alm	12½" x 12½"	9'
VPES16	16"	3(H) (M) (L)	931 698 419	9.1 7.9 6.5	3-Alm	16½" x 16½"	9'
VPES20	20"	3(H) (M) (L)	2,427 1,820 1,092	8.0 6.9 5.7	3-Alm	20½" x 20½"	9'
VPES24	24"	2(H) (L)	3,464 2,317	7.1 6.0	3-Alm	24½" x 24½"	9'

★ Experts choice

## Optional Weather Hood

Shutter Fan Size	Weather Hood
12"	VFT140855
16"	VFT140856
20"	VFT140857
24"	VFT140858



Weather hood for exterior shutter side

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# Twister Exhaust Fan

J&D Manufacturing's Twister Exhaust Fan remains unchanged after 25 years. Why change a fan that is this dependable? The Twister is manufactured with a heavy gauge housing and butterfly shutters that open easily on startup, and spring closed when not in use to create a tight weather seal.

## Features

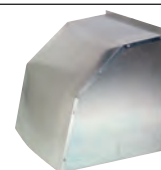
- Aluminum prop with zinc plated hub is balanced for smooth vibration-free operation
- Hinged rear guard allows for easy cleaning and maintenance by simply removing two bolts and swinging out the fan assembly
- 18-gauge galvanized butterfly shutter has adjustable positive draft-free closure
- Fan comes fully assembled for easy installation
- Direct drive motor
- Heavy-duty 18-gauge galvanized housing
- Heavy-duty motor mount safety guard combination has an easy-to-clean coated finish
- Rear guard conforms to OSHA 1910.212(a)(5) safety requirements to mount at any height on motor side of fan (damper side should be mounted 7' above ground)
- Totally enclosed, maintenance-free, high-efficiency motors have completely sealed ball bearings, are UL and CUL recognized, and are covered by a **2 Year Warranty**
- Optional galvanized weather hood available to protect your fan from harsh weather and severe wind



Part #	Sz	Spd	@0.10" SP		Prop	Rough Opening
			CFM	Watt		
Single Phase						
VFT141130	12"	1	780	8.5	3-Alm	13¾" x 13¾"
VFT141131	16"	1	2,050	7.7	3-Alm	18" x 18"
VFT141132	20"	1	2,630	9.7	3-Alm	22" x 22"
VFT141133	24"	1	4,470	11.7	3-Alm	25¼" x 25¼"

## Optional Weather Hood

Shutter Fan Size	Weather Hood
12"	VFT140855
16"	VFT140856
20"	VFT140857
24"	VFT140858



Weather hood for exterior shutter side of fan

\*

Experts choice

**Bold red text is data based on testing performed by an accredited lab using ANSI /AMCA Standard 210-07**

**OSHA requires this fan to be mounted with damper side of fan 7' above the floor**

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# WM Light Dep Exhaust Fan

Using light deprivation to control growth cycles is a strategy that many agriculturists use. Besides bringing production to maturity in a shorter time period, light deprivation also decreases aggressive behaviors while increasing ROI.

Minimizing light while still maintaining optimal ventilation in your house can be difficult.

J&D's WM Light Dep Exhaust Fan is the solution you should implement today. Performance data was gathered with the light trap installed. There is no guess work on how much performance is compromised after adding the light trap and shutter.

- Keep your facility healthy by reducing stagnant air, gases, odor, disease, and aggression
- Full range of sizes, even ones for the smallest houses
- Test data is for fan with light trap and shutter, enabling dependable and accurate air exchange calculations

**Mounts flush to the interior of the house**

•  
**Freeing up valuable space**

•  
**Eliminating a protruding ledge that can collect debris and possible pathogens**

## Light Trap

- 1.5 million :1 light reduction factor
  - Washable
  - Easy-to-assemble<sup>2</sup>, install, and remove for cleaning
- check out the assembly video on our website*

## Nylon Light Trap Clips

- For toolless light trap removal, allowing for quick cleaning and maintenance access

**Check out our inlets section for your inlet light trap needs**

## Exterior Shutter

- Aluminum shutter with tie bar/s to minimize unwanted air infiltration and noisy flapping

## Housing

- Durable, corrosion-resistant, 18-gauge galvanized steel for long life

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# WM Light Dep Exhaust Fan

## H-frame

- Heavy 12-gauge steel for strength
- Galvanized for long life

## Prop

- Precision balanced for efficiency, extended fan life, and reduced noise


## Bearings

- Eccentric locking
- Pre-lubricated
- Permanently sealed and rubber mounted to improve operation and reduce prop fatigue
- Covered by a **3 Year Warranty**

## Venturi

- Precision machined for consistent predictable performance



				@0.10" SP			
Part#	Sz	Spd	CFM	CFM/	FEI	Drive	Prop
				Watt			
Single Phase							
VF24DMLT1-GS	24"	1	4,854	7.8	N/A	Direct	4-Ply
VF30DMLT1-GS	30"	1	6,551	10.4	N/A	Direct	3-Alm
Three Phase							
VF24DMLT3-GS	24"	1	4,252	9.0	N/A	Direct	3-Glv
VF30DMLT3-GS	30"	1	6,645	10.0	N/A	Direct	3-Alm

Part#	Sz	Spd	@0.10" SP			Drive	Prop
			CFM	Watt	FEI		
Single Phase							
VF24DMLT1	24"	1	4,267	10.6	N/A	Direct	3-Alm
VF30DMLT1	30"	1	6,216	11.0	N/A	Direct	3-Alm
VF36GGLT1	36"	1	10,948	9.4	1.20	Belt	4-Glv
VF42GGLT1	42"	1	13,064	10.4	1.29	Belt	3-Glv
VF50GGLT1	50"	1	19,717	10.5	1.26	Belt	3-Glv
VF55GGLT1	55"	1	22,512	11.8	1.40	Belt	3-Glv
Three Phase							
VF24DMLT3	24"	1	4,457	10.7	N/A	Direct	3-Alm
VF30DMLT3	30"	1	6,259	12.1	N/A	Direct	3-Alm
VF36GGLT3	36"	1	11,044	9.9	1.25	Belt	4-Glv
VF42GGLT3	42"	1	13,957	10.4	1.29	Belt	3-Glv
VF50GGLT3	50"	1	22,038	10.1	1.21	Belt	3-Glv
VF55GGLT3	55"	1	24,283	12.2	1.44	Belt	3-Glv

\* Experts choice

**Bold red text is data based on testing performed by an accredited lab using ANSI/AMCA Standard 210-07**

**OSHA requires these fans to be mounted 7' above the floor**

<sup>2</sup> Light trap ships unassembled  
- assembly video on our website

Fan Size	Rough Opening
24"	35"W x 35"H
30"	41"W x 41"H
36"	47¼"W x 47¼"H
42"	53"W x 53"H
50"	59"W x 59"H
55"	66¼"W x 66¼"H

## Gold Star Motor

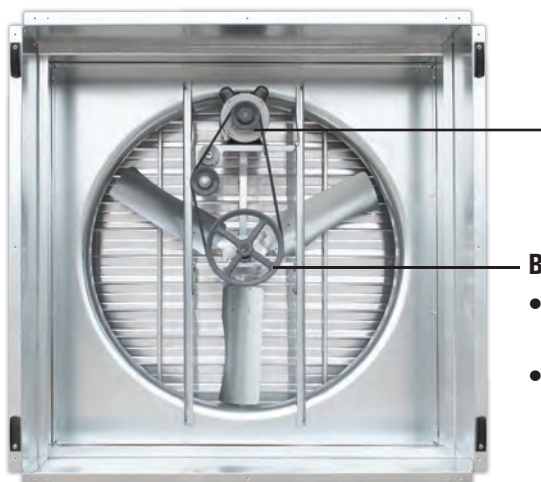
- IP66-Rated
  - Dust tight
  - Can be washed down from any angle
- Totally enclosed
- Maintenance-free, completely sealed ball bearings
- High efficiency
- CSA recognized
- Covered by a **3 Year Warranty**



Shown with light trap removed

## Standard Motor

- Totally enclosed
- Maintenance-free, completely sealed ball bearings
- High efficiency
- UL and CUL recognized
- Covered by a **2 Year Warranty**



Shown with light trap removed

## Belt Drive Models

- Automotive style belt tensioner
- High efficiency notched v-belt

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

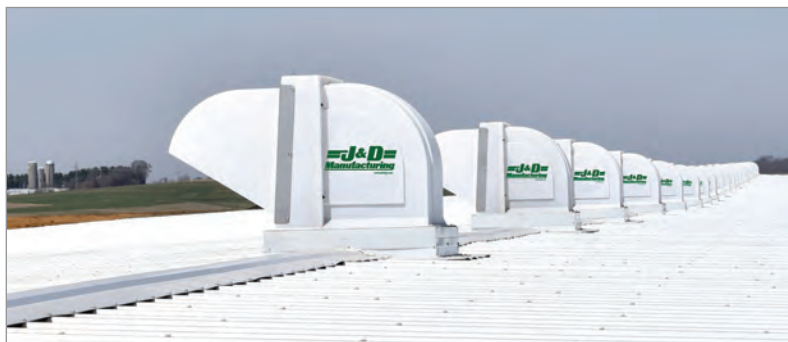
# Ridge Fan

J&D Manufacturing's Ridge Fan is the perfect solution for year round air exchange, especially in the winter where it expels moist stale air and encourages an influx of fresh air to enter the facility.

This ridge fan features a design that incorporates the center fan body into the transition body. By eliminating the center fan body, we have created a ridge fan that takes up less area on the roof.

## Features

- This is one tough fan, the powerful motor allows the fan to operate under high work loads
- Design allows easy access from the interior and exterior for maintenance
- Heavy-duty, 1-piece seamless transition body for strength and durability
- Fan is pre-wired with 8' cord for 230 Volts
- Poly shutter
- Toolless removal of poly hood and shutter for easy maintenance and cleaning
- Fan features recessed fiberglass venturi and 4-blade poly propeller with cast-aluminum hub
- Stainless-steel slanted H-frame motor mount and stainless-steel hardware
- Ridge fan transition and hood manufactured using a proprietary process resulting in a smoother, easier to clean surface
- **2 Year Warranty** on motors



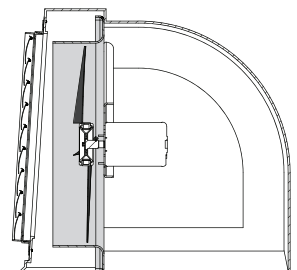
**NOTE:** Bird netting is recommended but sold separately

Part #	Sz	Spd	@0.10" SP			Drive	Prop
			CFM	Watt	FEI		
Three Phase							
No Hood							
Poly Shutter							
VRFR24P13S	24"	1	6,540	6.3	0.86	Direct	4-Ply
With Hood							
Poly Shutter							
VRFR24P13HS	24"	1	6,124	5.9	0.81	Direct	4-Ply
Rough Opening: See installation instructions for rough opening and framing requirements							

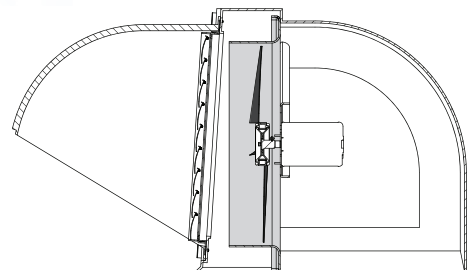
\* Experts choice

⚡ Not for sale in California

**Bold red text is data based on testing performed by an accredited lab using ANSI/AMCA 210-07 standard.**



VRFR24P13S



VRFR24P13HS

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# Pruden Polystainless Fan

The Pruden Polystainless Exhaust Fan from J&D Manufacturing is a proven performer that's built to last.

## Features

- Impact-resistant, molded, high-density polyethylene housing
- Stainless-steel venturi, motor mount and hardware for ultimate corrosion resistance
- Durable, molded, poly weather hood for efficient operation in all wind and weather conditions

- White powder-coated hood guard to prevent birds from entering
- Poly fan body and weather hood are covered by a **10 Year Warranty**
- Totally enclosed, maintenance-free, high efficiency direct drive motors have completely sealed ball bearings, and are covered by a **2 Year Warranty**

Part#	Sz	Spd	@.05" SP		Drive	Prop
			CFM	Watt		
Single Phase						
With Poly Weather Hood						
Aluminum Shutter						
PFPS12C	12"	1	1,165	6.2	Direct	3-Ply
PFPS20G	20"	1	4,095	12.3	Direct	3-Ply
PFPS20GG	20"	1	4,765	14.5	Direct	3-Ply
PFPS24H	24"	1	5,210	14.9	Direct	4-Ply

Fan Size	Rough Opening
12"	18¾"W x 18¾"H
20"	25¾"W x 25¾"H
24"	29"W x 29"H

**Bold red text is data based on testing performed by an accredited lab using ANSI /AMCA Standard 210-07**



**12" with Poly Weather Hood**

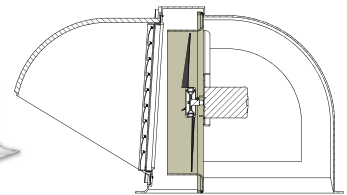


**20" & 24" with Poly Weather Hood**

# Pruden 24" Poly Pit Transition Fan

## Features

- Heavy-duty, 1-piece seamless transition body for strength and durability
- Fan features recessed fiberglass venturi, poly propeller with cast-aluminum hub, and poly shutter
- Stainless-steel slanted H-frame motor mount and stainless-steel hardware
- Toolless removal of poly hood and shutter for easy maintenance
- Fan is pre-wired with 8' cord for 230V



Part #	Sz	Spd	@0.10" SP			Drive	Prop
			CFM	Watt	FEI		
Single Phase							
No Hood							
Poly Shutter							
PFFS24	24"	1	3,885	9.6	N/A	Direct	4-Ply
PFFS2412S	24"	1	4,510	8.3	N/A	Direct	8-Ply
With Hood							
Poly Shutter							
PFFS24WS	24"	1	3,792	9.4	N/A	Direct	4-Ply
PFFS2412WS	24"	1	4,183	7.8	N/A	Direct	8-Ply

Part #	Sz	Spd	@0.10" SP			Drive	Prop
			CFM	Watt	FEI		
Three Phase							
No Hood							
Poly Shutter							
PFFS24312S	24"	1	4,918	9.2	N/A	Direct	4-Ply
PFFS243S	24"	1	6,540	6.3	0.86	Direct	8-Ply
With Hood							
Poly Shutter							
PFFS24312WS	24"	1	4,698	8.8	N/A	Direct	4-Ply
PFFS243WS	24"	1	6,124	5.9	0.81	Direct	4-Ply

When installing any J&D Manufacturing exhaust fan you must provide a proper inlet.

Give us a call today to help you design a complete ventilation system that will provide maximum results.

**Rough Opening:**  
32"W x 32"L

\* Experts choice  
 ☞ Not for sale in California

**Bold red text is data based on testing performed by an accredited lab using ANSI /AMCA Standard 210-07**

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# COOLING YOUR OPERATION IS A BREEZE WITH J&D

At J&D Manufacturing, ventilation is our specialty. The main purpose of air recirculation is to cool and control the climate of your barn or building. Destratification is also a benefit to adding recirculation fans to a facility. Enjoy drier bedding, floors, and surfaces. Reduce stagnant, warm air, moisture, condensation, and humidity in your space all while saving energy and watching production thrive. J&D provides numerous options to help achieve your climate goals. Talk to a J&D ventilation expert today and start designing the perfect indoor climate.

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**Great solution for retrofitting, able to be mounted in buildings with lower ceilings**



**3 Louver  
Uni-Directional**

**3 Year  
Warranty  
on ENTIRE  
fan**



**4 Louver  
Bi-Directional**

## AIRBLASTER - PRECISION VELOCITY

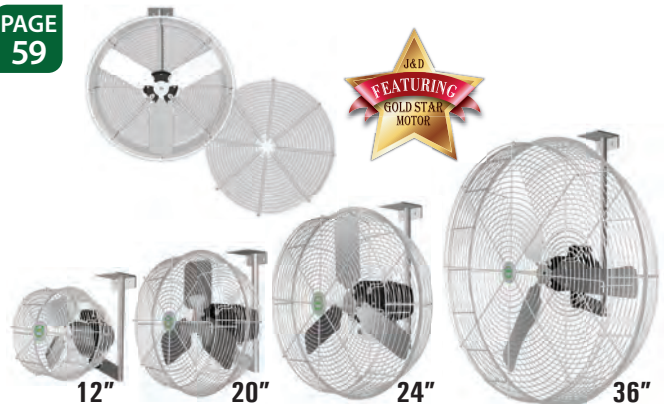
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### PM PANEL FANS 50", 55", & 60"

- No Belts to Change
- No Lubricating
- No Pulleys to Maintain
- Motor - Bearings - Gearbox

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### BARNSTORMER

The patented easy-open front guard is an exclusive feature that drastically reduces cleaning and maintenance time. With a size for almost any need, whether big or small.

# AirBlaster - Precision Velocity



**Can be mounted  
in buildings with  
lower ceilings.**

**Great solution  
for retrofitting.**

**3 Year  
Warranty  
on ENTIRE  
fan**

RECIRCULATION FANS



**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# AirBlaster - Precision Velocity



**3 Louver  
Uni-Directional**



**4 Louver  
Bi-Directional**



## Housing

- Rugged, corrosion-resistant poly with UV inhibitor
- Precision injection molded

## JD-Drive Motor

- PM Direct Drive, efficient 2.2 kW motor
- Internal Motor Drive - no VFD needed
  - Provides soft starts
  - Enables variable speed
  - Allows for precise and uniform speed control (0-10V control signal required)
- Surge protection
- Locked rotor protection
- Overload protection
- Thermal foldback protection
- IP66-Rated
- Industrial aluminum housing
- Will not interfere with RFID



## Motor Frame

- 304 stainless-steel for corrosion resistance
- Motor-centric with minimal air impedance

## Prop

- 3 corrosion-resistant 304 stainless-steel blades
- 304 stainless-steel hub

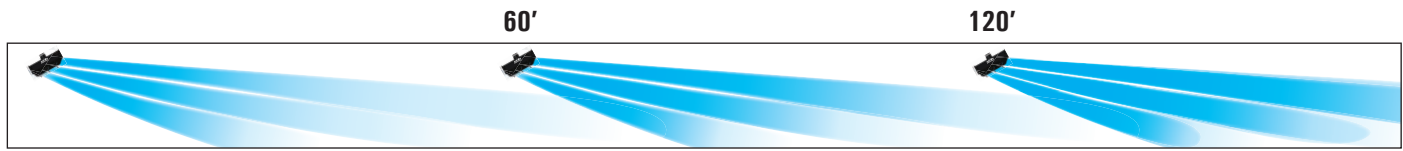


## Shipping

- Easy to assemble and packaged for reduced shipping cost
- 75 fans per 53' van trailer truckload
- 45 fans per 40' high-cube shipping container

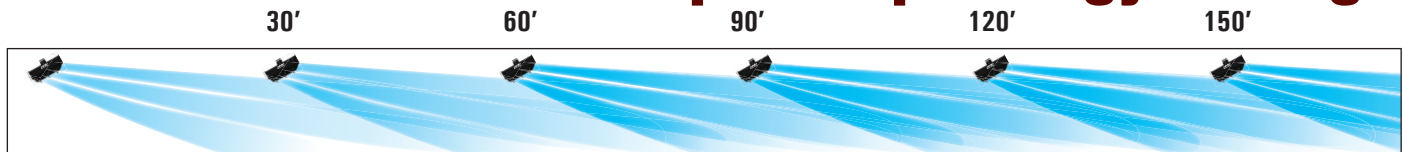
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# AirBlaster - Precision Velocity



60' apart running at 100%

## Slow down the fan to speed up energy savings



30' apart running at 50% using only 1/4 the energy will provide the near equivalent amount of air as the 60' spacing running at 100%.

### 3 Louver Uni-Directional

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/ Watt	Drive	Prop
<b>Single Phase</b>							
VAB58L3S3221AG-CK	58"	1	1/Var^	100% <b>38,857</b>	<b>17.9</b>	PM-D	3-SS
				90% <b>35,366</b>	<b>21.9</b>		
				80% <b>31,623</b>	<b>27.5</b>		
				70% <b>27,837</b>	<b>35.0</b>		
				60% <b>24,120</b>	<b>47.7</b>		
				50% <b>20,378</b>	<b>66.8</b>		
				40% <b>16,742</b>	<b>98.9</b>		
<b>Three Phase</b>							
VAB58L3S3223BG-CK	58"	3	1/Var^	100% <b>38,430</b>	<b>16.6</b>	PM-D	3-SS
				90% <b>34,880</b>	<b>20.3</b>		
				80% <b>31,352</b>	<b>25.9</b>		
				70% <b>27,847</b>	<b>33.5</b>		
				60% <b>24,110</b>	<b>45.8</b>		
				50% <b>20,388</b>	<b>65.1</b>		
				40% <b>16,750</b>	<b>97.3</b>		
* VAB58L3S3223CG-CK	58"	3	1/Var^	100% <b>38,711</b>	<b>17.8</b>	PM-D	3-SS
				90% <b>35,093</b>	<b>21.3</b>		
				80% <b>31,376</b>	<b>26.7</b>		
				70% <b>27,530</b>	<b>34.2</b>		
				60% <b>23,833</b>	<b>45.3</b>		
				50% <b>19,922</b>	<b>62.0</b>		
				40% <b>15,965</b>	<b>88.8</b>		

\* Experts choice

### 4 Louver Bi-Directional

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/ Watt	Drive	Prop
<b>Single Phase</b>							
VAB58L4S3221AG-CK	58"	1	1/Var^	100% <b>38,631</b>	<b>17.6</b>	PM-D	3-SS
				90% <b>34,819</b>	<b>21.6</b>		
				80% <b>31,186</b>	<b>27.0</b>		
				70% <b>27,353</b>	<b>34.9</b>		
				60% <b>23,643</b>	<b>46.2</b>		
				50% <b>19,839</b>	<b>63.6</b>		
				40% <b>15,886</b>	<b>94.6</b>		
<b>Three Phase</b>							
VAB58L4S3223BG-CK	58"	3	1/Var^	100% <b>38,659</b>	<b>16.4</b>	PM-D	3-SS
				90% <b>35,437</b>	<b>19.8</b>		
				80% <b>31,610</b>	<b>25.3</b>		
				70% <b>27,986</b>	<b>33.4</b>		
				60% <b>24,628</b>	<b>45.6</b>		
				50% <b>20,776</b>	<b>65.1</b>		
				40% <b>16,997</b>	<b>98.3</b>		
VAB58L4S3223CG-CK	58"	3	1/Var^	100% <b>38,887</b>	<b>17.8</b>	PM-D	3-SS
				90% <b>35,419</b>	<b>21.5</b>		
				80% <b>31,713</b>	<b>26.6</b>		
				70% <b>27,840</b>	<b>34.1</b>		
				60% <b>24,028</b>	<b>45.3</b>		
				50% <b>20,133</b>	<b>62.2</b>		
				40% <b>16,157</b>	<b>91.3</b>		

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

Every AirBlaster fan comes with a chain hanging kit - refer to instructions for additional hanging requirements.

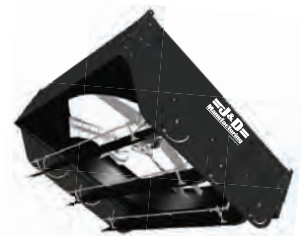
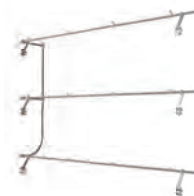
**Bold red text is data based on testing performed by an accredited lab using ANSI / AMCA Standard 230-23**

**OSHA requires this fan to be mounted a minimum of 7' above the floor**

### AirBlaster HPF Kit - 3 Louver

Part#	Description
SSAB34015	HPF Kit, AirBlaster, 3 Louver, 12 Nozzle @ .015 gpm, w/Hardware

- Increase cooling
- Easy to install on new or existing 3 Louver AirBlasters



**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# PM Panel Fan - 50", 55", & 60"

RECIRCULATION FANS

## Save Time & Money

- No Belts to Change
- No Pulleys to Maintain
- No Lubricating
  - Motor
  - Bearings
  - Gearbox
- No additional moving parts other than the motor for zero maintenance



Prop

- 3 corrosion-resistant galvanized blades and hub

### Motor

- Totally enclosed - IP66-Rated
- High efficiency
- Produces and emits less heat - cool to the touch
- Quiet

### Internal Motor Drive

- Provides soft starts
- Allows for precise and uniform speed control
- Enables variable speed *(requires separate variable speed control to adjust fan speed)*

### Power

- Increases efficiency when ran at low speeds
- Supplies constant torque to the propeller



### Heavy-Duty X-Frame

- 10-gauge, G90 galvanized
- Superior strength and rigidity to minimize vibration

**JD**  
Drive  
IMPROVED  
Now IP66 rated & increased efficiency

Save **HUGE** on shipping costs, ask about our full truckload knocked-down option!

**3 Year  
Warranty  
on ENTIRE  
fan**

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# PM Panel Fan - 50", 55", & 60"

## Features

- Ships fully assembled and ready for installation
- Wide assortment of optional mounting brackets for wood and steel posts for precise airflow
- Maximize your cooling capabilities by adding a stainless-steel, 12-nozzle, high pressure fog ring kit to the 50", 55", and 60" models
- Totally enclosed, maintenance-free, high-efficiency motor has completely sealed ball bearings and is cCSAus recognized

## Installation Options

Part#	Description
<b>Swivel Offset Mounting Bracket</b>	
<b>Wood Post Mount</b>	
VRSBRPR6PX-PM	4"-6" Wood Post, PM Panel Fan, Glv
<b>Round Column Mount</b>	
VRSBRPR3X-PM	3" Rnd Column, PM Panel Fan, Glv
VRSBRPR35X-PM	3½" Rnd Column, PM Panel Fan, Glv
VRSBRPR4X-PM	4" Rnd Column, PM Panel Fan, Glv
VRSBRPR55X-PM	5½" Rnd Column, PM Panel Fan, Glv
<b>Square Column Mount</b>	
VRSBRSQ4X-PM	4" Sq Column, PM Panel Fan, Painted
VRSBRSQ6X-PM	6" Sq Column, PM Panel Fan, Painted
<b>In-line Column Mounting Brackets</b>	
<b>Round Column Mount</b>	
VRSBRP3	3"-3½" Rnd Column, Black Powder Coat & Glv
VRSBRP4	4"-4½" Rnd Column, Black Powder Coat & Glv
VRSBRP5	5"-5½" Rnd Column, Black Powder Coat & Glv
VRSBRP6	6"-6½" Rnd Column, Black Powder Coat & Glv
<b>Square Column Mount</b>	
VRSBRP4SQ	4"-4½" Sq. Column, Black Powder Coat & Glv
VRSBRP6SQ	6"-6½" Sq. Column, Black Powder Coat & Glv
VRSBRP8SQ	8"-8½" Sq. Column, Black Powder Coat & Glv
<b>Chain Suspending Kit</b>	
HK211	(3) 72" of Chain, w/Fan to Chain Hardware

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
<b>Single Phase</b>							
VPX50GV3PM221AG	50"	1	1/Var^	100% <b>28,950</b> 90% <b>26,055</b> 80% <b>23,160</b> 70% <b>20,265</b> 60% <b>17,370</b> 50% <b>14,475</b>	<b>14.7</b> <b>18.2</b> <b>23.0</b> <b>30.0</b> <b>40.9</b> <b>58.8</b>	PM-D	3-Glv
VPX55GV3PM221AG	55"	1	1/Var^	100% <b>33,300</b> 90% <b>29,970</b> 80% <b>26,640</b> 70% <b>23,310</b> 60% <b>19,980</b> 50% <b>16,650</b>	<b>18.5</b> <b>22.8</b> <b>28.8</b> <b>37.6</b> <b>51.2</b> <b>73.7</b>	PM-D	3-Glv
VPX60GV3PM221AG	60"	1	1/Var^	100% <b>41,550</b> 90% <b>37,395</b> 80% <b>33,240</b> 70% <b>29,085</b> 60% <b>24,930</b> 50% <b>20,775</b>	<b>17.8</b> <b>22.0</b> <b>27.8</b> <b>36.3</b> <b>49.4</b> <b>71.1</b>	PM-D	3-Glv

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
<b>Three Phase</b>							
VPX50GV3PM223BG	50"	3	1/Var^	100% <b>29,000</b> 90% <b>26,100</b> 80% <b>23,200</b> 70% <b>20,300</b> 60% <b>17,400</b> 50% <b>14,500</b>	<b>15.1</b> <b>18.6</b> <b>23.6</b> <b>30.8</b> <b>41.9</b> <b>60.4</b>	PM-D	3-Glv
VPX50GV3PM223CG	50"	3	1/Var^	100% <b>28,700</b> 90% <b>25,830</b> 80% <b>22,960</b> 70% <b>20,090</b> 60% <b>17,220</b> 50% <b>14,350</b>	<b>15.0</b> <b>18.5</b> <b>23.4</b> <b>30.5</b> <b>41.5</b> <b>59.8</b>	PM-D	3-Glv
VPX55GV3PM223BG	55"	3	1/Var^	100% <b>33,400</b> 90% <b>30,060</b> 80% <b>26,720</b> 70% <b>23,380</b> 60% <b>20,040</b> 50% <b>16,700</b>	<b>19.1</b> <b>23.5</b> <b>29.7</b> <b>38.8</b> <b>52.8</b> <b>76.1</b>	PM-D	3-Glv
VPX55GV3PM223CG	55"	3	1/Var^	100% <b>33,250</b> 90% <b>29,925</b> 80% <b>26,600</b> 70% <b>23,275</b> 60% <b>19,950</b> 50% <b>16,625</b>	<b>19.1</b> <b>23.5</b> <b>29.8</b> <b>38.9</b> <b>53.0</b> <b>76.3</b>	PM-D	3-Glv
VPX60GV3PM223BG	60"	3	1/Var^	100% <b>41,500</b> 90% <b>37,350</b> 80% <b>33,200</b> 70% <b>29,050</b> 60% <b>24,900</b> 50% <b>20,750</b>	<b>18.5</b> <b>22.8</b> <b>28.8</b> <b>37.6</b> <b>51.2</b> <b>73.8</b>	PM-D	3-Glv
* VPX60GV3PM223CG	60"	3	1/Var^	100% <b>41,150</b> 90% <b>37,035</b> 80% <b>32,920</b> 70% <b>28,805</b> 60% <b>24,690</b> 50% <b>20,575</b>	<b>18.2</b> <b>22.5</b> <b>28.4</b> <b>37.2</b> <b>50.6</b> <b>72.8</b>	PM-D	3-Glv

\* Experts choice

^ 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 230-23**

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

**NOTE:** Add "-1" to end of part number for individually crated fan

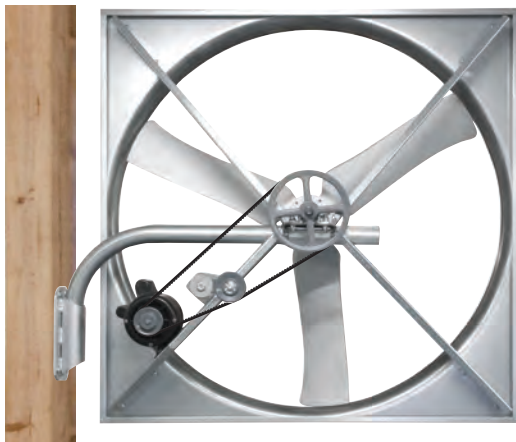
**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# 50", 55", & 60" Panel Fan

RECIRCULATION FANS



**Belt Drive Panel Fans with Galvanized Prop and VRSBRSQ6X  
Swivel Offset 6" Square Column Mounting Brackets**



**Swivel Offset Wood Post Mount**



**In-line Column Mount**



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# 50", 55", & 60" Panel Fan

J&D Manufacturing's Panel Fans have a rugged x-frame mount with an efficient motor and a powerful balanced blade that is designed to create comfortable air velocity. The cushion-mounted, maintenance-free bearings and heavy-duty automatic belt tensioning device make this fan high performing, low maintenance, and a great value.

## Features

- Ships fully assembled and ready for installation
- Durable cast iron pulleys
- Balanced, high-output, galvanized prop or **Lifetime Warranty** cast-aluminum prop
- Heavy-duty, G90 galvanized, 18-gauge venturi with 10-gauge gusset support X-frame provides superior strength and rigidity to minimize vibration compared to angle iron, square, or round tube designs
- Utilizes an auto belt tensioner to reduce bounce at startup and provide self-adjusting uniform loading throughout the life of the belt for high efficiency
- Shaft bearings are eccentric locking, pre-lubricated, permanently sealed, rubber mounted for smooth operation and reduced blade fatigue, and are covered by a **3 Year Warranty**
- Wide assortment of optional mounting brackets for wood and steel posts for precise airflow

- Maximize your cooling capabilities by adding a stainless-steel, 12-nozzle, high pressure fog ring kit to the 50", 55", and 60" models
- Totally enclosed, maintenance-free, high-efficiency motors have completely sealed ball bearings, are UL and CUL recognized, and are covered by a **2 Year Warranty**

## Installation Options

Part#	Description
<b>Swivel Offset Mounting Bracket</b>	
<b>Wood Post Mount</b>	
VRBPR6PX	4"-6" Wood Post, VPX Panel Fan, Glv
<b>Round Column Mount</b>	
VRBPR3X	3" Rnd Column, VPX Panel Fan, Glv
VRBPR35X	3½" Rnd Column, VPX Panel Fan, Glv
VRBPR4X	4" Rnd Column, VPX Panel Fan, Glv
VRBPR55X	5½" Rnd Column, VPX Panel Fan, Glv
VRBPR8X	8" Rnd Column, VPX Panel Fan, Glv
<b>Square Column Mount</b>	
VRBRSQ4X	4" Sq Column, VPX Panel Fan, Painted
VRBRSQ6X	6" Sq Column, VPX Panel Fan, Painted
<b>In-line Column Mounting Brackets</b>	
<b>Round Column Mount</b>	
VRBPR3	3"-3½" Rnd Column, Black Powder Coat & Glv
VRBPR4	4"-4½" Rnd Column, Black Powder Coat & Glv
VRBPR5	5"-5½" Rnd Column, Black Powder Coat & Glv
VRBPR6	6"-6½" Rnd Column, Black Powder Coat & Glv
<b>Square Column Mount</b>	
VRBPR4SQ	4"-4½" Sq. Column, Black Powder Coat & Glv
VRBPR6SQ	6"-6½" Sq. Column, Black Powder Coat & Glv
VRBPR8SQ	8"-8½" Sq. Column, Black Powder Coat & Glv
<b>Chain Suspending Kit</b>	
HK211	(3) 72" of Chain, w/Fan to Chain Hardware

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
<b>Single Phase</b>							
VPX50GV31011	50"	1	1	22,300	21.1	Belt	3-Glv
VPX50GV61011	50"	1	1	22,500	20.2	Belt	6-Glv
VPX50CA31011	50"	1	1	23,200	21.7	Belt	3-CA
* VPX50CA31011-E	50"	1	1	22,000	23.8	Belt	3-CA
VPX50GV61011-E	50"	1	1	21,200	24.3	Belt	6-Glv
VPX55GV31511-E	55"	1	1	29,700	20.6	Belt	3-Glv
VPX55CA31511	55"	1	1	29,100	20.4	Belt	3-CA
VPX55CA31511-E	55"	1	1	27,400	22.7	Belt	3-CA
VPX55GV51511	55"	1	1	29,200	21.2	Belt	5-Glv
VPX55CA32011	55"	1	1	30,400	17.3	Belt	3-CA
VPX55GV32011	55"	1	1	29,200	20.5	Belt	3-Glv
VPX55GV52011	55"	1	1	29,500	19.1	Belt	5-Glv
VPX60GV32011	60"	1	1	37,500	17.7	Belt	3-Glv
VPX60GV32011-E	60"	1	1	31,600	23.9	Belt	3-Glv
<b>Three Phase</b>							
* VPX50GV31031	50"	3	1	22,200	20.7	Belt	3-Glv
VPX50GV31031-E	50"	3	1	21,200	24.9	Belt	3-Glv
VPX50GV61031	50"	3	1	22,300	21.2	Belt	6-Glv
VPX50GV61031-E	50"	3	1	20,900	24.3	Belt	6-Glv
VPX50CA31031	50"	3	1	23,000	22.2	Belt	3-CA
VPX50GV31531	50"	3	1	21,600	23.3	Belt	3-Glv
VPX55CA31531	55"	3	1	28,600	20.8	Belt	3-CA
VPX55CA31531-E	55"	3	1	27,400	23.2	Belt	3-CA
VPX55GV31531	55"	3	1	29,900	21.1	Belt	3-Glv
VPX55GV51531	55"	3	1	29,100	21.8	Belt	5-Glv
VPX55CA32031	55"	3	1	29,600	20.4	Belt	3-CA
VPX55CA32031-E	55"	3	1	28,000	23.0	Belt	3-CA
VPX55GV32031	55"	3	1	30,600	21.4	Belt	3-Glv
VPX55GV32031-H	55"	3	1	31,400	16.9	Belt	3-Glv
VPX55GV52031	55"	3	1	29,000	22.0	Belt	5-Glv
VPX60GV32031	60"	3	1	39,500	17.8	Belt	3-Glv
VPX60GV32031-E	60"	3	1	34,500	23.7	Belt	3-Glv

\* Experts choice

**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**

**NOTE:** Add "-1" to end of part number for individually crated fan

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# 24" & 36" Panel Fan

J&D Manufacturing's 24" and 36" Panel Fans have a rugged frame mount with an efficient motor and a powerful balanced blade that is designed to create comfortable air velocity.

The cushion-mounted maintenance-free bearings and heavy-duty automatic belt tensioning system on belted models make this fan high performing, low maintenance, and a great value.



**24" Direct Drive  
3-Blade Panel Fan**



**36" Direct Drive  
3-Blade Panel Fan**

## Features

- Ships fully assembled ready for installation
- Includes heavy-duty hanging chain kit
- Durable cast-iron pulleys on belt drive models
- Balanced high-output prop
- Heavy-duty, G90 galvanized, 18-gauge venturi
- 24" models have a rigid guard motor mount
- 36" models have x-frame that provides superior strength and rigidity compared to angle iron, square, or round tube designs
- 36" belt drive models include a heavy-duty spring belt tensioning system
- Wide assortment of optional mounting brackets for wood and steel posts for precise airflow
- Shaft bearings are eccentric locking, pre-lubricated, permanently sealed, rubber mounted for smooth operation and reduced blade fatigue, and are covered by a **3 Year Warranty**
- Totally enclosed, maintenance-free, high-efficiency standard motors have completely sealed ball bearings, are UL and CUL recognized, and are covered by a **2 Year Warranty**
- Gold Star Motors have a **3 Year Warranty**

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# 24" & 36" Panel Fan



Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
<b>Single Phase</b>							
VP36D-GS	36"	1	1	<b>10,840</b>	<b>20.1</b>	Direct	3-Glv
<b>Three Phase</b>							
VP243G-GS	24"	3	1/Var^	<b>5,780</b>	<b>13.5</b>	Direct	3-Glv
VP363D-GS	36"	3	1/Var^	<b>10,590</b>	<b>22.7</b>	Direct	3-Glv

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
<b>Single Phase</b>							
VP24	24"	1	1	<b>5,450</b>	<b>15.4</b>	Direct	3-Alm
* VP36D	36"	1	1	<b>10,600</b>	<b>20.4</b>	Direct	3-Glv
VP36	36"	1	1	<b>11,030</b>	<b>19.4</b>	Belt	4-Glv
* VP361	36"	1	1	<b>13,000</b>	<b>16.3</b>	Belt	4-Glv
<b>Three Phase</b>							
VP243G	24"	3	1	<b>5,740</b>	<b>13.4</b>	Direct	3-Glv
VP363D	36"	3	1	<b>10,470</b>	<b>22.3</b>	Direct	3-Glv

\* Experts choice

^ 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**

## Installation Options

Direct Drive Fans	Belt Drive Fans	Part#	Description
<b>Swivel Offset Mounting Bracket</b>			
<b>Wood Post Mount</b>			
	X	VRSBRPR6P	4"-6" Wood Post, 36" BD Panel Fan, Glv
<b>Rigid Offset Mounting Bracket</b>			
<b>Round Column Mount</b>			
	X	VRSBRPR3	3" Rnd Column, 36" BD Panel Fan, Blk Pwdr Ct
	X	VRSBRPR35	3½" Rnd Column, 36" BD Panel Fan, Blk Pwdr Ct
	X	VRSBRPR4	4" Rnd Column, 36" BD Panel Fan, Blk Pwdr Ct
	X	VRSBRPR6	6½" Rnd Column, 36" BD Panel Fan, Blk Pwdr Ct
<b>Square Column Mount</b>			
	X	VRSBRSQ4	4" Sq Post, Panel Fan, Painted
	X	VRSBRSQ6	6" Sq Post, Panel Fan, Painted
<b>In-line Column Mounting Brackets</b>			
<b>Round Column Mount</b>			
X	X	X	VRSBRP3 3"-3½" Rnd Column, Black Powder Coat & Glv
X	X	X	VRSBRP4 4"-4½" Rnd Column, Black Powder Coat & Glv
X	X	X	VRSBRP5 5"-5½" Rnd Column, Black Powder Coat & Glv
X	X	X	VRSBRP6 6"-6½" Rnd Column, Black Powder Coat & Glv
<b>Square Column Mount</b>			
X	X	X	VRSBRP4SQ 4"-4½" Sq. Column, Black Powder Coat & Glv
X	X	X	VRSBRP6SQ 6"-6½" Sq. Column, Black Powder Coat & Glv
X	X	X	VRSBRP8SQ 8"-8½" Sq. Column, Black Powder Coat & Glv
<b>Chain Suspending Kit</b>			
X	X	X	HK211 (3) 72" of Chain, w/Fan to Chain Hardware



**Swivel Offset  
Wood Post Mount for  
Belt Drive Panel Fans**



**Rigid Offset  
Column Mount Bracket  
for Belt Drive Panel Fans**



**In-line  
Column Mount Bracket  
for Direct and Belt Drive  
models of Panel Fans**

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Whirl-Wind

## Galvanized Box Fan

The Whirl-Wind galvanized box fan has performance, durability, and it is easy to install. This fan features a strong galvanized housing, and heavy-duty, 12-gauge welded wire mesh guards that are hot dip galvanized. Poly guard clips reduce noise and vibration between the housing and guard. Whirl-Wind fans include attached hanging brackets for quick and easy installation in your building. The high velocity air movement provides maximum airflow at a low electrical cost.

### Features

- Available in 24", 36", 50", and 55"
- 18-gauge galvanized housing
- 3, 4, or 6 blade balanced high output propeller
- **Lifetime Warranty** on 50" cast-aluminum propellers
- Poly guard clips to reduce vibration for quiet performance
- Includes attached hanging brackets for easy installation
- 12-gauge wire mesh guards are hot dip galvanized after welding for long life
- 1" x 2" mesh guards standard on most models
- Belt drive models include a heavy-duty spring belt tensioner to reduce bounce at startup, and provide self adjusting equal pressure throughout the life of the belt for high efficiency
- Shaft bearings are eccentric locking, pre-lubricated, permanently sealed and rubber mounted for smooth operation and reduced blade fatigue, and are covered by a **3 Year Warranty**.
- Totally enclosed, maintenance-free, high-efficiency motors have completely sealed ball bearings, and are covered by a **2 Year Warranty**



Shown:  
36" Direct Drive,  
Galvanized 3-Blade

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# Whirl-Wind



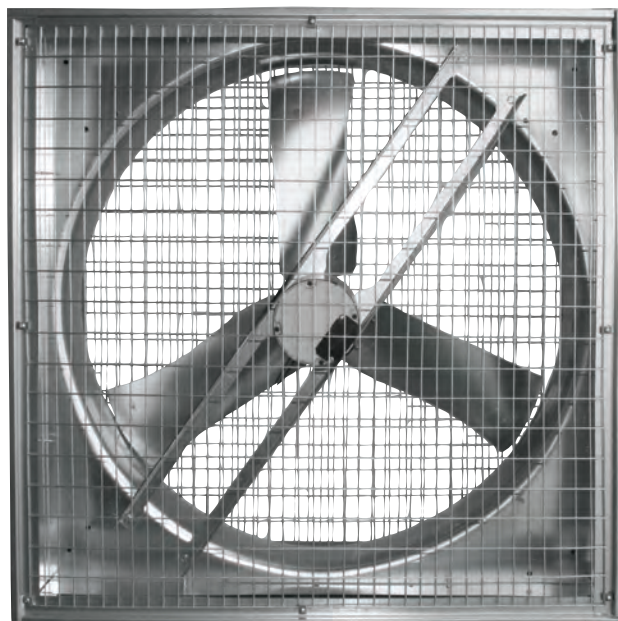
Attached hanging brackets for easy installation.



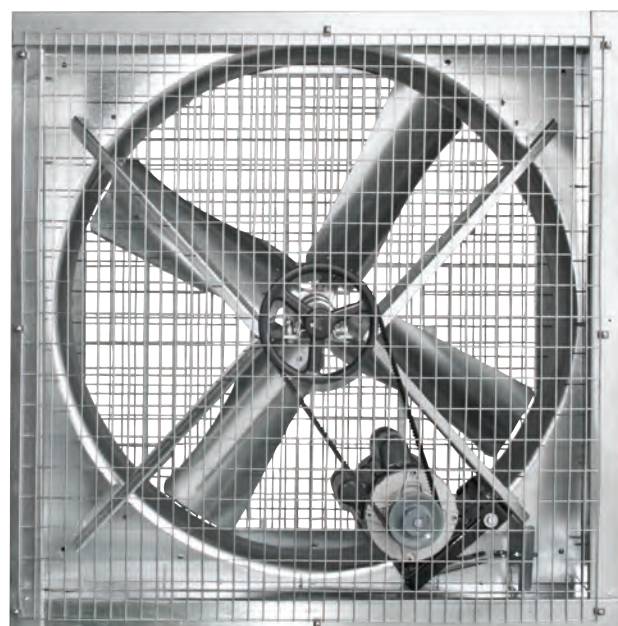
Poly guard clips to reduce vibration for quiet performance.



Heavy-duty spring belt tensioner on belt drive models to reduce bounce at startup.



Shown:  
Back of 36" Direct Drive, Galvanized 3-Blade Whirl-Wind



Shown:  
Back of 36" Belt Drive, Galvanized 4-Blade Whirl-Wind

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop	Mesh
<b>Single Phase</b>								
VG24DM	24"	1	1	5,170	13.9	Direct	3-Alm	1" x 2"
* VG36DM	36"	1	1	9,680	18.2	Direct	3-Glv	1" x 2"
VG36DM-22	36"	1	1	10,190	19.2	Direct	3-Glv	2" x 2"
VG36VF36GBM	36"	1	1	9,800	16.8	Belt	4-Glv	1" x 2"
VG36VF36	36"	1	1	13,540	10.5	Belt	4-Glv	1" x 2"
VG50DM	50"	1	1	17,000	18.2	Direct	3-Glv	1" x 2"
VG50	50"	1	1	20,800	20.2	Belt	3-Glv	1" x 2"
VG50-24	50"	1	1	22,000	21.4	Belt	3-Glv	2" x 4"
VG50CA	50"	1	1	21,400	21.1	Belt	3-CA	1" x 2"
VG50G6	50"	1	1	21,100	21.7	Belt	6-Glv	1" x 2"
VG55	55"	1	1	28,876	18.4	Belt	3-Glv	1" x 2"
<b>Three Phase</b>								
VG24DM3CF	24"	3	1/Var^	5,090	11.6	Direct	3-Gva	1" x 2"
VG36DM3CF	36"	3	1/Var^	9,860	20.8	Direct	3-Glv	1" x 2"
VG36DM3F-22	36"	3	1/Var^	10,150	21.8	Direct	3-Glv	2" x 2"
* VG50DM3B	50"	3	1/Var^	17,400	19.2	Direct	3-Glv	1" x 2"
VG503	50"	3	1/Var^	21,300	22.1	Belt	3-Glv	1" x 2"
VG503CA	50"	3	1/Var^	21,200	22.2	Belt	3-CA	1" x 2"
VG503G6	50"	3	1/Var^	20,600	22.1	Belt	6-Glv	1" x 2"
VG553	55"	3	1/Var^	29,629	16.4	Belt	3-Glv	1" x 2"

\* Experts choice

^ 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 this fan to be mounted a minimum of 7' above the floor**

Fan Size and Type	Dimensions (W x H x D) (rounded to nearest 1/8")
24" Direct Drive	30½" x 30½" x 16¼"
36" Direct Drive	40⅝" x 40⅝" x 14⅞"
36" Belt Drive	40½" x 40½" x 24⅜"
50" Direct Drive	54½" x 54½" x 23¾"
50" Belt Drive	54½" x 54½" x 23¾"
55" Direct Drive	66" x 66" x 23¾"

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



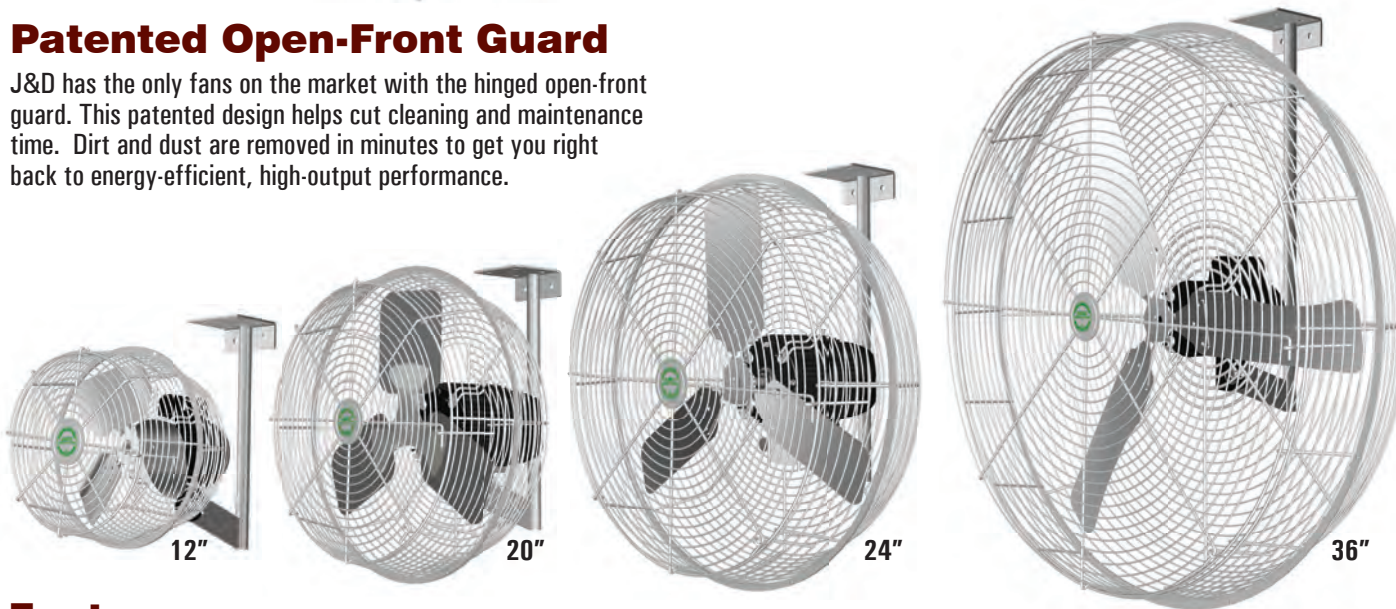
# Barnstormer

J&D Manufacturing's Barnstormer is a dependable leader in air recirculation. The patented open-front guard is an exclusive feature that drastically reduces cleaning and maintenance time. The Barnstormer's tapered guard creates a high velocity air pattern that allows greater distance between fans, which means less fans in your facility and more money in your pocket.



## Patented Open-Front Guard

J&D has the only fans on the market with the hinged open-front guard. This patented design helps cut cleaning and maintenance time. Dirt and dust are removed in minutes to get you right back to energy-efficient, high-output performance.



## Features

- Patented open-front guard for easy maintenance (U.S. Patent No. 5,348,447)
- Fan ships fully assembled and ready for installation
- Includes hot dip galvanized ceiling mount bracket
- Industry leading air velocity
- Quiet operation
- Direct drive motors with no belts or bearings to maintain
- Gold Star Motors have a **3 Year Warranty**
- Compatible with our misting/fogging product line
- Guards are white powder coated for easy cleaning and corrosion resistance
- 20" Gold Star Motor model and 12" single phase standard motor model offer variable speed (*requires separate variable speed control to adjust fan speed*)
- Totally enclosed, maintenance-free, high-efficiency standard motors have completely sealed ball bearings, are UL and CUL recognized, and are covered by a **2 Year Warranty**
- Motors have built-in automatic thermal overload protection for the longest motor life possible

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# Barnstormer



Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop	Included Bracket
<b>Single Phase</b>								
* VBS20-GS	20"	1	1/Var^	<b>3,920</b>	<b>9.3</b>	Direct	3-Alm	VRSBR8-HDG
VBS24-GS	24"	1	1	<b>6,070</b>	<b>11.5</b>	Direct	3-Alm	VRSBR5-HDG
VBS36A-GS	36"	1	1	<b>9,650</b>	<b>19.0</b>	Direct	3-Glv	VRSBR6-HDG
<b>Three Phase</b>								
VBS36CF-GS	36"	3	1	<b>9,740</b>	<b>21.5</b>	Direct	3-Glv	VRSBR6-HDG



Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop	Included Bracket
<b>Single Phase</b>								
VBS12	12"	1	1/Var^	<b>810</b>	<b>7.2</b>	Direct	3-Alm	VRSBR736-HDG
VBS20	20"	1	1	<b>3,650</b>	<b>11.8</b>	Direct	3-Alm	VRSBR8-HDG
VBS24	24"	1	1	<b>5,250</b>	<b>12.1</b>	Direct	3-Alm	VRSBR5-HDG
* VBS36A	36"	1	1	<b>10,050</b>	<b>17.6</b>	Direct	3-Glv	VRSBR6-HDG
<b>Three Phase</b>								
VBS203	20"	3	1	<b>3,580</b>	<b>12.2</b>	Direct	3-Alm	VRSBR8-HDG
VBS243A	24"	3	1	<b>5,470</b>	<b>12.5</b>	Direct	3-Alm	VRSBR5-HDG
* VBS36CF	36"	3	1	<b>10,000</b>	<b>20.3</b>	Direct	3-Glv	VRSBR6-HDG

\* Experts choice

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

Standard Barnstormers do not come with a cord. Models pre-wired with a cord are available as a special order with price adjustment

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

**OSHA requires this fan to be mounted a minimum of 7' above the floor**

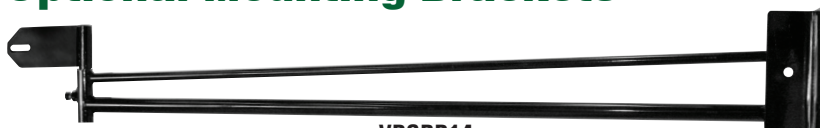


**Add a mist kit for additional cooling!**



**All Barnstormer fans include a hot dip galvanized mounting bracket**

## Optional Mounting Brackets

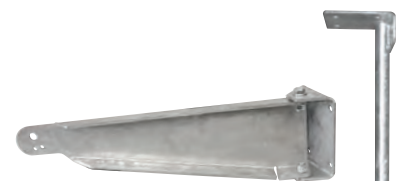


VRSBR14



VRSBR143, VRSBR144, VRSBR14412

Part #	Compatible Fan Size				Description	Powder Coated Black	Hot Dip Galv.
	12"	20"	24"	36"			
Side Mount Brackets							
VRSBR14	X	X	X	X	42" Extended Bracket, fits Sq. or Round Up Post	X	
VRSBR143	X	X	X	X	42" Extended Bracket, fits 3" Tube – Bolt On	X	
VRSBR144	X	X	X	X	42" Extended Bracket, fits 4" Tube – Bolt On	X	
VRSBR14412	X	X	X	X	42" Extended Bracket, 4½" Tube – Bolt On	X	
VRSBR901-HDG	X	X	X	X	Wall Mount Bracket		X
Ceiling Mount Brackets							
VRSBR2-HDG	X	X	X		6-Way Bracket		X
VRSBR3-HDG				X	6-Way Bracket		X
Pole Mount Bracket							
VRSBR12	X	X	X	X	Pole Bracket, fits 4"–4½" Tube	X	
VRSBR13	X	X	X	X	Pole Bracket, fits 3"–3½" Tube	X	



VRSBR901-HDG



VRSBR12  
VRSBR13



VRSBR2-HDG  
VRSBR3-HDG

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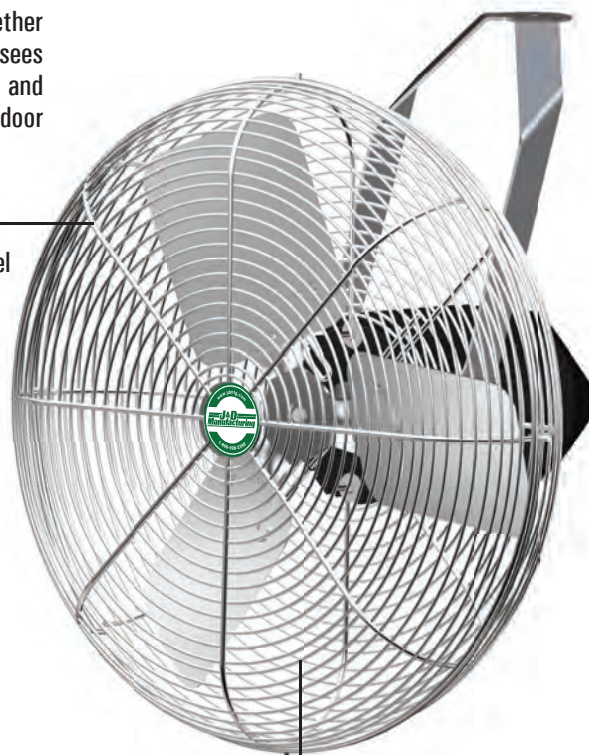
# Stainless-Steel Basket Fan

The Stainless-Steel Basket Fan is the perfect fan for corrosive environments. Whether it be near the coast that experiences 'salty' air/salt spray or in a greenhouse that sees fertilizers or pesticides, the Stainless-Steel Basket Fan can handle it. Rugged and strong enough for the toughest environments, yet aesthetically pleasing for outdoor restaurants, pools and patios this fan can be put anywhere velocity is needed.

## Features

- Fan ships completely assembled
- Direct drive - no belts or pulleys to maintain
- Compatible with our misting/fogging product line
- 316 electropolished stainless-steel
  - Enhanced corrosion resistance to chloride and other acids
  - Reduced particle buildup
  - Easier Cleaning
- Meets OSHA 1910.212(a)(5) requirements allowing this fan to be installed at any height
- Heavy gauge

**The ultimate in corrosion resistance**



### Guard

- 316 electropolished stainless-steel
  - Enhanced corrosion resistance to chloride and other acids
  - Reduced particle buildup
  - Easier Cleaning
- Meets OSHA 1910.212(a)(5) requirements allowing this fan to be installed at any height
- Heavy gauge

### Mounting Bracket

- 10ga 304 stainless-steel, "chrome" color powder coat finish

### Prop

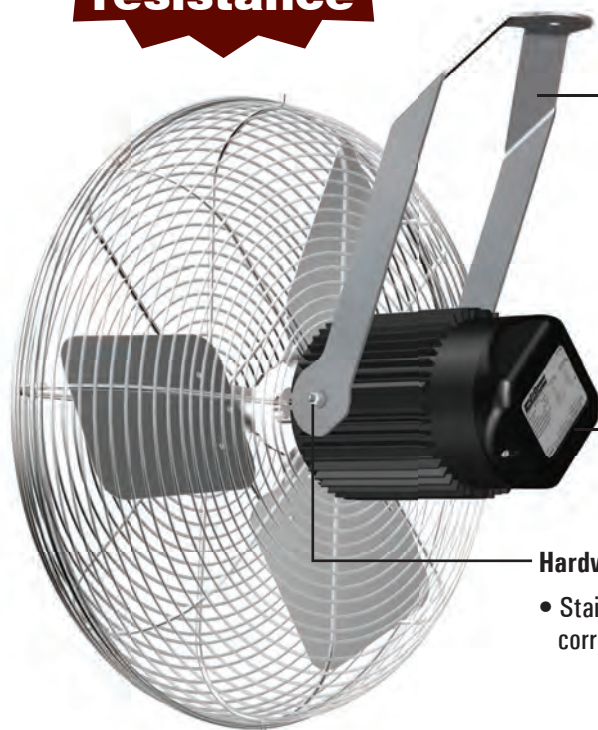
- 3-blade
- Stainless-steel for corrosion resistance

### Motor

- IP66-Rated
  - Dust tight
  - Can be washed down from any angle
- Housing has electrophoretic coating for additional corrosion resistance
- Aluminum finned housing for incredible heat dissipation
- Progressive rotor design for high-efficiency and long life
- Built-in automatic thermal overload protection
- **3 Year Warranty**

### Hardware

- Stainless-steel for corrosion resistance



Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop	Included Bracket
<b>Single Phase</b>								
VDB20SS-GS	20"	1	1	3,640	10.0	Direct	3-SS	VRSBR8-HDG

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

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# Premium Indoor/Outdoor Waterproof UL507 Certified Fans

The Indoor/Outdoor POW (Premium Outdoor Waterproof) fans from J&D Manufacturing are durable, three-speed, waterproof fans. These fans come pre-wired for 115 Volts with cord and 3-prong plug for "No Electrician\* Needed" installation. These fans are perfect in areas around the farm, greenhouse, and outdoor patio that may come in contact with rain, humidity, and water spray.

## Features

- Direct drive, high output performance and quiet operation
- 3-speed pull chain
- Attached cord with 3-prong plug pre-wired for 115 Volts
- UL507 certified for indoor and outdoor use
- Aluminum blades - painted
- Corrosion-resistant, powder coated fan guards meet OSHA 1910.212(a)(5) requirements for installation at any height
- Totally enclosed, maintenance-free, high-efficiency motors have completely sealed ball bearings, are UL and CUL recognized, and are covered by a **1 Year Warranty**
- Rated for use with our misting/fogging products to increase cooling abilities

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/ Watt	Drive	Prop
Wall, Ceiling or Pole Mount Fans							
Single Phase							
White							
POW14	14"	1	3(H) (M) (L)	1,090 1,000 870	13.6 15.2 15.5	Direct	3-Alm
POW18	18"	1	3(H) (M) (L)	2,210 1,870 1,420	13.9 13.4 12.7	Direct	3-Alm
Black							
POW18B	18"	1	3(H) (M) (L)	2,210 1,870 1,420	13.9 13.4 12.7	Direct	3-Alm
Optional Bracket							
POWTPB	Bracket, Post/Pole, w/U-bolt & Hdwr, White						
Oscillating Wall Mount Fans							
Single Phase							
White							
POW24OSC	24"	1	3(H) (M) (L)	3,470 2,930 2,550	13.1 16.3 16.4	Direct	3-Alm
POW30OSC	30"	1	3(H) (M) (L)	4,790 3,960 3,310	17.7 20.6 20.7	Direct	3-Alm

\* Experts choice

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

+ GFCI (Ground Fault Circuit Interrupter) recommended on all circuits

**3  
Speed**

**No electrician needed!  
Hang it up  
Plug it in**

## Wall, Ceiling or Pole Mount Fans



POW18



POW18B



POWTPB  
Optional Bracket  
for post or pole

## Features

- 18" model available in white or black
- 8' cord
- Versatile powder coated mounting bracket allows for easy tilt and swivel of fan to quickly change direction and angle of air movement, a perfect work station fan

## Oscillating Wall Mount Fans

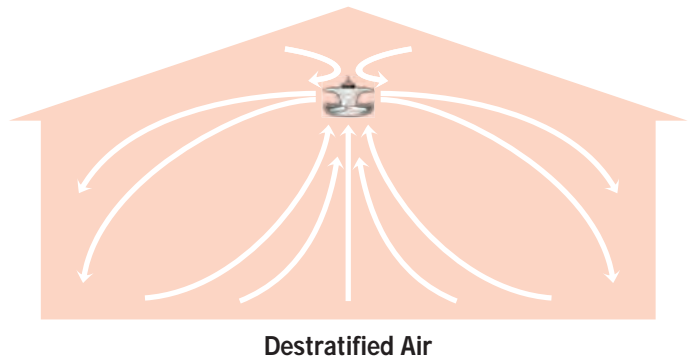
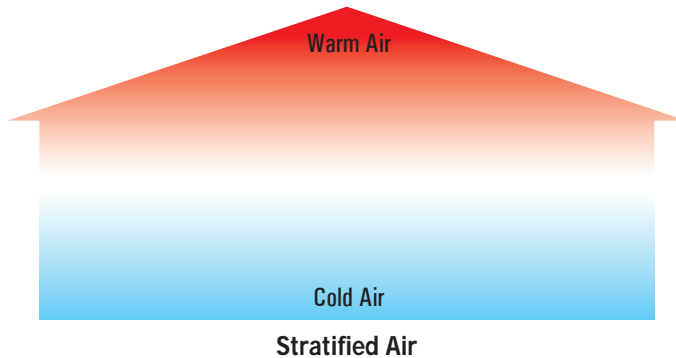
## Features

- Available in 24" and 30"
- Includes powder coated steel wall bracket
- 10' cord
- Range of oscillation — 93°
- Minimal assembly required



# JD360 Destratifier

J&D's JD360 Destratifier fan creates low-air-speed, vertical air movement providing a comfortable uniform environment.



## Reduces:

- Temp stratification and dead zones
- Moisture condensation
- Heating bills

## Provides:

- Even mixing of air
- Healthier, more comfortable environment

**3 Year  
Warranty  
on ENTIRE  
fan**



Part#	Size	Ph	Spd	FPM @ Cone	Drive	Prop
<b>Single Phase</b>						
JD360	18"	1	1	1,790	Direct	6-Ply
<b>Three Phase</b>						
JD360-3	18"	3	1	1,803	Direct	8-Ply
<b>Optional Mounting Brackets</b>						
HK222	Mounting Bracket for 2" OD Round Pipe					
HK223	Mounting Bracket for 2" OD Square Pipe					

OSHA requires this fan to be mounted a minimum of 7' above the floor.

For best results fan should be mounted:

- between 7' and 16' from floor
- no further than 60' between each fan
- with an obstacle-free zone of 7' on-center horizontally and 2' from bottom of guard and top of cone vertically

## 3 Hanging Options



## Mounting Brackets & Hardware

- Corrosion-resistant stainless-steel

## Motor

J&D's Gold Star Motor

- IP66-Rated
  - Dust-tight
  - Wash down from any angle
- CSA recognized
- Totally enclosed, maintenance-free, high-efficiency



## Poly Blade Prop

- Precisely contoured blades for efficient air movement
- Corrosion-resistant cast-aluminum hub

## Single Phase is Pre-Wired for 115V

- Corded with 3-prong plug
- Ready to mount and plug in
- Electrician can rewire for 230V

*Three phase has no cord*

## Diverting cone

- Smooth, for maximum air fluidity
- Molded from corrosion proof UV-resistant high density poly

## Guards & Frame

- Heavy gauge steel
- Powder-coated for corrosion resistance and easy cleaning



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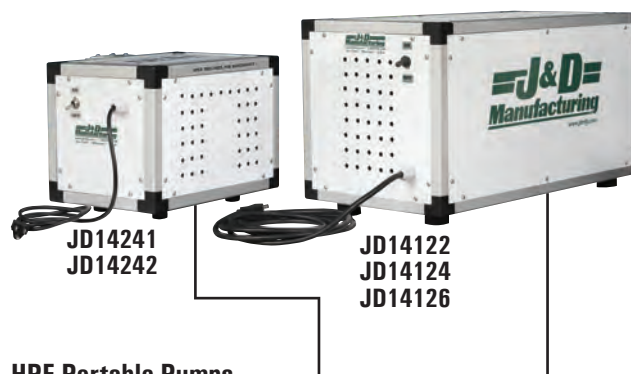
# HPF JD360 Destratifier Fan Ring Kits and HPF Portable Pumps

Pairing J&D's JD360 Destratifier Fans with High Pressure Fog Ring Kits and HPF Portable Pumps, you can create an ideal growing climate in your greenhouse by generating the perfect balance of temperature, humidity, and air movement.



## HPF Ring Kit

- Customize your cooling with three nozzle sizes to choose from
  - .006 GPM (8)
  - .015 GPM (8)
  - .039 GPM (8)
- Stainless-steel for long life and corrosion resistance
- 3/8" slip lock connector for easy installation
- Chemical-resistant nylon hardware for attaching ring to fan



## HPF Portable Pumps

- Portable and self-contained
- 3/8" slip lock connector for easy installation
- Includes 5 micron 5" commercial water filter with standard 3/4" GHT hose fitting
- Attached 10' cord with 3-prong plug pre-wired for 110 Volts
- Raised rubber feet to reduce vibration and minimize sound
- 0.15-1.0 GPM models are compatible with optional Smart Phone Controller

## Water Quality Requirements

Thorough water testing and treatment of your intended water supply by qualified water treatment professionals is required to minimize mineral deposits and corrosion that may block or erode nozzles.

Shown are the basic parameters required of your water supply. Additional requirements by your water treatment professionals may be justified. Damage or clogging of nozzles or other elements of J&D's High Pressure Fogging system due to insufficiently treated water will not be covered by warranty.

Ring Kit Part#	Description
SS2218	JD360 Fog Ring Kit, 22" with (8).006 GPM Nozzles = .048 GPM
SS2228	JD360 Fog Ring Kit, 22" with (8).015 GPM Nozzles = .120 GPM
SS2238	JD360 Fog Ring Kit, 22" with (8).039 GPM Nozzles = .312 GPM

Pump Part#	GPM	HP	Volts	Hz	Amps	Minimum-Maximum # of JD360 Ring Kits per Pump		
						SS2218	SS2228	SS2238
JD14241	0.15	1/4	110	60	1.38	3-5	1-2	0
JD14242	0.3	1/4	110	60	2.15	6-9	3-4	1
JD14122	0.5	1/2	110	60	5.8	10-19	4-7	2-3
JD14124	1.0	1	110	60	9.2	20-39	8-15	3-6
JD14126*	2.0	2	110	60	16.5	40-55	16-23	6-9

Part#	Description
JD62200*	Smart Phone Pump Controller

\* 2.0 GPM model not compatible with Smart Phone Pump Controller

Test	Required Parameters
Hardness	Less than 7gpg (120 parts per million or milligrams per liter)
PH	7.0 or higher
Dissolved Metals	Listed are the most common and problematic. Consult with your water specialist on what additional dissolved metals you may need to correct. <u>Iron</u> - Less than 0.3 parts per million <u>Manganese</u> - Less than 0.05 parts per million
TDS (Total Dissolved Solids)	Less than 500 milligrams per liter

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# Green Breeze HAF Fan

Greenhouses thrive with HAF (Horizontal Airflow) fans, and J&D Manufacturing's Green Breeze is the most versatile, energy-efficient, best-valued HAF fan on the market today.

J&D's Green Breeze assists in reducing winter heating costs by efficiently moving air throughout the greenhouse creating a more uniform temperature. Then for overall improved plant health and to harden plants before shipping them to market, adjust the air pattern towards the plants to stimulate hardiness and growth.

No electrician needed!  
**Hang it up**  
**Plug it in**



## Features

- Available in 12", 20", 24", and 36"
- Includes hot dip galvanized mounting bracket with u-bolts and hardware
- **Patented Open-Front Guard** cuts maintenance time and costs
- Attached 10' cord with 3-prong plug pre-wired for 115 Volts
- Direct drive - no belts or bearings to maintain
- Corrosion-resistant, white powder coated guards
- Mounting bracket mounts directly to the yoke of motor to reduce vibration for smooth fan operation
- Fan ships completely assembled and ready for installation
- The tapered side guard creates a tight air pattern that throws air much farther than conventional basket fans
- Provides airflow that helps eliminate hot and cold spots throughout the greenhouse
- Totally enclosed, maintenance-free, high-efficiency motors have completely sealed ball bearings, are UL and CUL recognized, and are covered by a **2 Year Warranty**
- Can be used with our misting/fogging product lines to reduce temperature and/or increase humidity for plants

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# Green Breeze HAF Fan

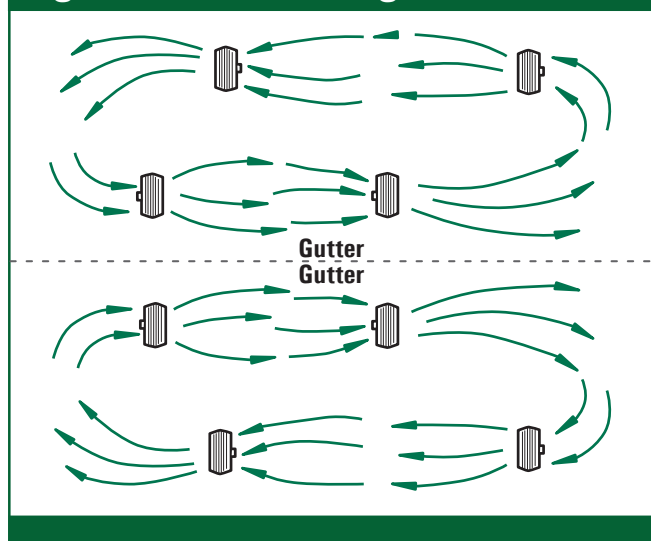
## Patented Open-Front Guard

J&D has the only HAF fans on the market with the patented open-front feature. The unique design helps cut cleaning time and maintenance costs so you are back to full, energy-efficient, high-output operation in no time. U.S. patent No. 5,348,447



RECIRCULATION FANS

### Structure airflow pattern for gutter connected greenhouses



J&D Manufacturing's design allows for more airflow and a consistent air pattern. This maximizes heat distribution and humidity control by mixing the air from ceiling to floor – under, over, and around your plants.

The Green Breeze HAF fan has precise guard spacing to greatly reduce air restriction when compared to conventional basket fans. Wider gaps also minimizes dirt build-up on the guards ensuring a more uniform performance between cleaning and longer motor life.

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/ Watt	Drive	Prop	Included Bracket
<b>Single Phase</b>								
VBG12	12"	1	1/Var^	<b>1,060</b>	<b>9.2</b>	Direct	3-Alm	VRSBR736-HDG
VBG20	20"	1	1	<b>3,650</b>	<b>11.8</b>	Direct	3-Alm	VRSBR8-HDG
VBG24	24"	1	1	<b>5,250</b>	<b>12.1</b>	Direct	3-Alm	VRSBR5-HDG
VBG36	36"	1	1	<b>9,810</b>	<b>17.4</b>	Direct	3-Glv	VRSBR6-HDG

These fans come pre-wired for 115 Volts  
(electrician may rewire for 230 Volts)

^ 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 this fan to be mounted a minimum of 7' above the floor**

\* Experts choice

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# EZ-Breeze HAF Basket Fan

J&D Manufacturing's EZ-Breeze HAF (Horizontal Airflow Fan) is a high-efficiency air circulator. In the warm months, use it to minimize hot spots, control moisture, harden plants, and cool people or machinery. In the cold months, use it to create a uniform temperature throughout your building and reduce heating costs.

## Features

- Available in 12", 16", 20", and 24"
- Includes corrosion-resistant hot dip galvanized mounting bracket with u-bolts and nuts
- Aluminum propeller designed to reduce ambient noise levels while maintaining maximum circulation requirements
- Efficient variable speed motors *(requires separate variable speed control to adjust fan speed)*
- Corrosion-resistant, white powder coated fan guards meet OSHA 1910.212(a)(5) requirements for installation at any height
- Fan ships completely assembled and ready for installation
- Attached 10' cord with 3-prong plug pre-wired for 115 Volts
- Totally enclosed, maintenance-free, direct drive high-efficiency motors have completely sealed ball bearings, are UL and CUL recognized, and are covered by a **2 Year Warranty**
- For additional cooling, use with our misting/fogging product line



VRSBR736-HDG  
VRSBR8-HDG  
VRSBR5-HDG



No electrician needed!  
**Hang it up**  
**Plug it in**



**Guards Meet**  
**OSHA**  
**Requirements**

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop	Included Bracket
<b>Single Phase</b>								
VDB12G	12"	1	1/Var^	<b>870</b>	<b>10.3</b>	Direct	3-Alm	VRSBR736-HDG
VDB16G	16"	1	1/Var^	<b>1,520</b>	<b>15.6</b>	Direct	3-Alm	VRSBR736-HDG
* VDB20G	20"	1	1/Var^	<b>1,650</b>	<b>17.6</b>	Direct	3-Alm	VRSBR8-HDG
VDB203G	20"	1	1	<b>3,390</b>	<b>11.9</b>	Direct	3-Alm	VRSBR8-HDG
VDB24G	24"	1	1	<b>3,500</b>	<b>12.3</b>	Direct	3-Glv	VRSBR5-HDG
VDB242G	24"	1	1	<b>5,020</b>	<b>12.3</b>	Direct	3-Alm	VRSBR5-HDG

\* Experts choice

These units come pre-wired for 115 Volts *(electrician may rewire for 230 Volts)*

^ 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**

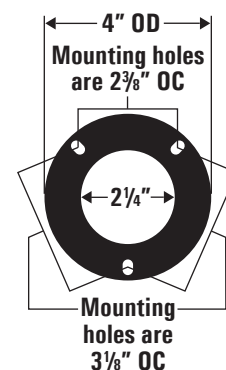
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# PSC Inflation Blowers & Brackets

Energy-efficient PSC (Permanent Split Capacitor) Inflation Blowers from J&D Manufacturing are designed to inflate double poly greenhouses for greater insulation capabilities. All models have adjustable damper doors to regulate airflow as the poly expands. J&D Inflation Blowers have a heavy gauge steel housing and forward curve metal wheel that is balanced for smooth operation. Oversized mounting holes on the discharge flange fit most industry standard brackets.



**VBM60A-P**



Part#	HP	Ph	Spd	CFM	Drive
<b>Round Mounting Flange Blowers</b>					
<b>Single Phase</b>					
<b>No Cord</b>					
VBM60A-P	1/125	1	1	60	Direct
<b>With Cord</b>					
VBM60A-PC	1/125	1	1	60	Direct
<b>Optional Bracket with Deflector</b>					
VMBRKT-RND	Bracket, Round Flange				



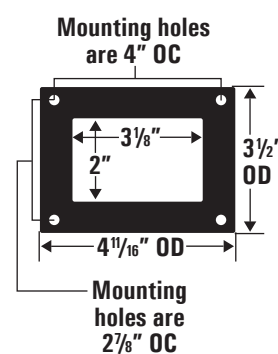
**VMBRKT-RND**

## Features

- Permanent split capacitor, energy-efficient, Class B motor with sealed ball bearings and automatic thermal overload protection
- PSC motor draws 50% less power and 70% less amps than similar shaded-pole blowers
- Heavy gauge steel housing with powder coated black finish
- Adjustable airflow damper
- Forward curve metal blower wheel – NO PLASTIC!
- Dynamically balanced to reduce noise and vibration
- Fully enclosed wires and connections
- Junction box with cord knock out for easy wiring
- Brass set screw for ground wire
- Fits most industry standard mounts
- Available with 6' cord and 3-prong plug pre-wired for 120 Volts
- Ships fully assembled and individually packaged
- **1 Year Warranty**
- Optional mounting bracket with deflector for easy mounting to tube framed structures



**VBM148A-P**



Part#	HP	Ph	Spd	CFM	Drive
<b>Square Mounting Flange Blowers</b>					
<b>Single Phase</b>					
<b>No Cord</b>					
VBM148A-P	1/25	1	1	148	Direct
<b>With Cord</b>					
VBM148A-PC	1/25	1	1	148	Direct
<b>Optional Bracket with Deflector</b>					
VMBRKT-SQ	Bracket, Square Flange				



**VMBRKT-SQ**

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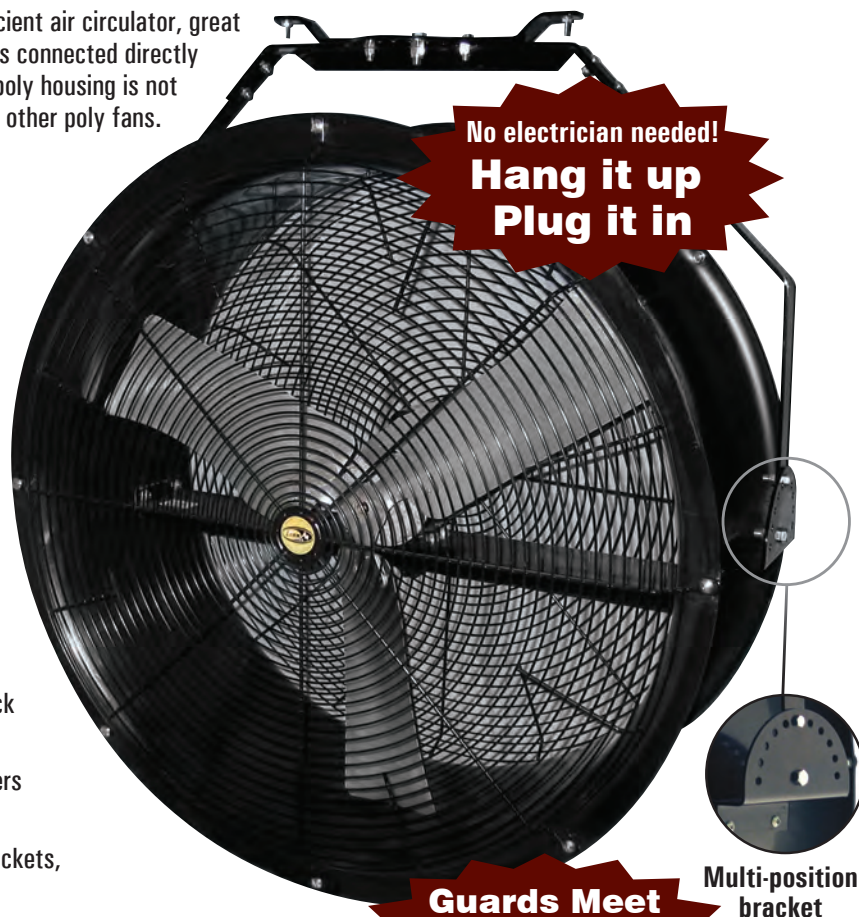


# Poly Chiller™

The Poly Chiller™ from J&D Manufacturing is an efficient air circulator, great in many environments. The heavy-duty motor mount is connected directly to the multi-positional hanging bracket, meaning the poly housing is not part of the support structure so it will not distort like other poly fans.

## Features

- Available in 24" and 36"
- Direct drive motor with no belts or bearings to maintain
- Fan ships completely assembled and ready for installation
- Single phase models available pre-wired for 115 or 230 Volts with attached 10' cord with 3-prong plug for "No Electrician Needed" installation
- 3-blade galvanized or aluminum prop
- One-piece molded black polyethylene housing **WILL NOT RUST**
- Multi-position mounting bracket lets you tilt and lock the fan in place
- Round housing shape is easy to clean with no corners for dirt build-up
- Heavy-duty, corrosion-resistant, powder coated brackets, motor mount and guards
- Guards meet OSHA 1910.212(a)(5) requirements and can be mounted at any height
- Totally enclosed, maintenance-free, high-efficiency motors have completely sealed ball bearings, are UL and CUL recognized, and are covered by a **2 Year Warranty**
- Compatible with our misting/fogging product line



**Guards Meet  
OSHA  
Requirements**

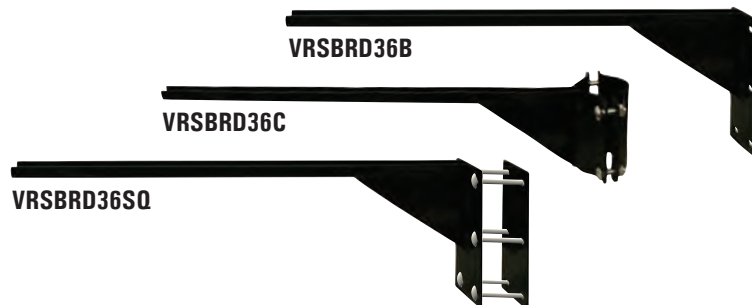
Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/ Watt	Drive	Prop
<b>Single Phase</b>							
<b>Without Cord</b>							
VPRF24	24"	1	1	<b>4,890</b>	<b>10.9</b>	Direct	3-Alm
VPRF36	36"	1	1	<b>9,750</b>	<b>17.4</b>	Direct	3-Glv
<b>With Cord Wired for 115V</b>							
VPRF24-C115	24"	1	1	<b>4,890</b>	<b>10.9</b>	Direct	3-Alm
VPRF36-C115	36"	1	1	<b>9,390</b>	<b>17.4</b>	Direct	3-Glv
<b>With Cord Wired for 230V</b>							
VPRF24-C230	24"	1	1	<b>4,890</b>	<b>10.9</b>	Direct	3-Alm
VPRF36-C230	36"	1	1	<b>9,750</b>	<b>17.4</b>	Direct	3-Glv
<b>Three Phase</b>							
<b>Without Cord</b>							
VPRF243	24"	3	1	<b>5,110</b>	<b>11.2</b>	Direct	3-Glv
* VPRF363	36"	3	1	<b>9,680</b>	<b>17.5</b>	Direct	3-Glv

\* Experts choice

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

## Optional Poly Chiller Brackets

Part#	Description
VRSBRD36B	Bracket, Poly Chiller, Wall or Post Mount, Black Powder Coat
VRSBRD36C	Bracket, Poly Chiller, 4½" Column Mount, Black Powder Coat
VRSBRD36SQ	Bracket, Poly Chiller, Square Post Up To 3", Black Powder Coat



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# Poly Stormer

Keep air moving efficiently across your facility with J&D's Poly Stormer. Made with high CFM in mind, this economical fan will give you the efficiency you want and the airflow you deserve.

## Features

- Fan ships fully assembled
- Direct drive motor with no belts or bearings to maintain
- Totally enclosed, maintenance-free, high-efficiency standard motors have completely sealed ball bearings, are UL and CUL recognized, and are covered by a **2 Year Warranty**
- Gold Star Motors have a **3 Year Warranty**
- Polyethylene housing will not rust or corrode
- Stainless-steel fasteners, powder coated guards, and galvanized prop for long lasting corrosion-resistance
- Lightweight for easier installation
- Motors have built-in automatic thermal over-load protection for the longest motor life possible
- Compatible with our misting/fogging product line



RECIRCULATION FANS

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
<b>Single Phase</b>							
* VPS36A-GS	36"	1	1	<b>8,450</b>	<b>17.1</b>	Direct	3-Glv
<b>Three Phase</b>							
VPS36CF-GS	36"	3	1/Var^	<b>8,560</b>	<b>18.9</b>	Direct	3-Glv

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
<b>Single Phase</b>							
VPS36A	36"	1	1	<b>8,210</b>	<b>16.3</b>	Direct	3-Glv
<b>Three Phase</b>							
* VPS36CF	36"	3	1	<b>8,460</b>	<b>18.7</b>	Direct	3-Glv

\* Experts choice

^ 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 this fan to be mounted a minimum of 7' above the floor**

All Poly Stormer Fans include a hot dip galvanized mounting bracket

# High Output Deluxe Basket Fan

J&D Manufacturing's High Output Deluxe Basket Fan series combines high performance, economical pricing, and energy efficiency to give you one of the best valued fan series available on the market today.

## Features

- Fan ships completely assembled
- Direct drive - no belts or pulleys to maintain
- Heavy gauge, corrosion-resistant, black powder coated guards
- Single phase models include attached cord with 3-prong plug pre-wired for 115 Volts
- Guards meet OSHA 1910.212(a)(5) requirements allowing this fan to be installed at any height
- Totally enclosed, maintenance-free, high-efficiency motors feature sealed ball bearings and are covered by a **2 Year Warranty**
- Gold Star Motors have a **3 Year Warranty**
- Compatible with our misting/fogging product line



Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
<b>Single Phase</b>							
<b>With Cord</b> (pre-wired for 115V, electrician may rewire for 230V)							
VDB20-GS	20"	1	1	<b>3,920</b>	<b>8.9</b>	Direct	3-Alm
VDB24-GS	24"	1	1	<b>5,680</b>	<b>11.3</b>	Direct	3-Alm
VDB30-GS	30"	1	1	<b>6,380</b>	<b>12.4</b>	Direct	3-Alm
* VDB36-GS	36"	1	1	<b>9,160</b>	<b>17.4</b>	Direct	3-Glv
<b>Three Phase</b>							
<b>No Cord</b>							
VDB303-GS	30"	3	1	<b>6,380</b>	<b>13.7</b>	Direct	3-Alm
VDB363-GS	36"	3	1	<b>9,810</b>	<b>17.7</b>	Direct	3-Alm

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
<b>Single Phase</b>							
<b>With Cord</b> (pre-wired for 115V, electrician may rewire for 230V)							
VDB20	20"	1	1	<b>3,340</b>	<b>9.1</b>	Direct	3-Alm
* VDB24	24"	1	1	<b>5,370</b>	<b>10.8</b>	Direct	3-Alm
VDB30	30"	1	1	<b>6,500</b>	<b>11.4</b>	Direct	3-Alm
VDB36	36"	1	1	<b>9,520</b>	<b>17.3</b>	Direct	3-Glv
<b>Three Phase</b>							
<b>No Cord</b>							
VDB303	30"	3	1	<b>6,730</b>	<b>13.0</b>	Direct	3-Alm
VDB363	36"	3	1	<b>9,500</b>	<b>19.4</b>	Direct	3-Glv

\* Experts choice

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

All High Output Deluxe Basket Fans include a hot dip galvanized mounting bracket

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# Heavy-Duty Industrial Basket Fan

## with 2 & 3-Speed High-Efficiency Motors

The J&D Heavy-Duty Industrial Basket Fan sets the standard in air performance. This fan was designed for the industrial market and provides the performance that is mandatory for machine efficiency and employee comfort.

### Features

- 2-speed, non-oscillating and 3-speed, oscillating high-efficiency motor with pull chain
- Attached cord with 3-prong plug pre-wired for 115 Volts
- Direct drive - no belts or pulleys to maintain
- 20" and 24" models with a ¼ HP motor are available in black or white
- 30" oscillating model with a powerful ½ HP motor is available in black
- Oscillating models feature 80° pivot range
- Heavy gauge, corrosion-resistant powder coated guards
- Guards meet OSHA 1910.212(a)(5) requirements allowing this fan to be installed at any height
- Totally enclosed, maintenance-free, high-efficiency motors feature sealed ball bearings and are covered by a **2 Year Warranty**
- Compatible with our misting/fogging product line
- Optional wall or post mount brackets

### MOUNTING BRACKETS ARE NOT INCLUDED

Select from the recommended brackets below to fit your installation needs.

Part #	Description	Powder Coated Black	Hot Dip Galv.
<b>Side Mount Brackets</b>			
VRSBR14	42" Extended Bracket, fits Sq. or Round Up Post	X	
VRSBR143	42" Extended Bracket, fits 3" Tube – Bolt On	X	
VRSBR144	42" Extended Bracket, fits 4" Tube – Bolt On	X	
VRSBR14412	42" Extended Bracket, 4½" Tube – Bolt On	X	
VRSBR901-HDG	Wall Mount Bracket		X



VRSBR14



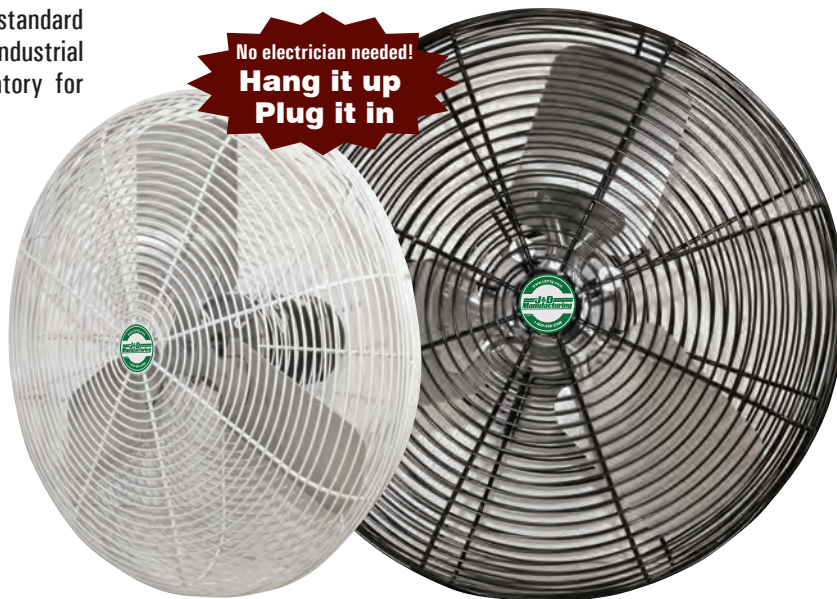
VRSBR143  
VRSBR144  
VRSBR14412



Tilt fan up or down, left or right

Shown:  
VRSBR901-HDG wall mount bracket with oscillating fan

No electrician needed!  
**Hang it up**  
**Plug it in**



Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
<b>Single Phase</b>							
<b>Non-Oscillating Black Models</b>							
* VDF20HOB2	20"	1	2(H) (L)	<b>2,550</b> <b>1,900</b>	<b>13.3</b> <b>12.7</b>	Direct	3-Alm
VDF24HOB2	24"	1	2(H) (L)	<b>3,700</b> <b>2,050</b>	<b>15.5</b> <b>13.0</b>	Direct	3-Alm
<b>Non-Oscillating White Models</b>							
VDF20HOW2	20"	1	2(H) (L)	<b>2,550</b> <b>1,900</b>	<b>13.3</b> <b>12.7</b>	Direct	3-Alm
VDF24HOW2	24"	1	2(H) (L)	<b>3,700</b> <b>2,050</b>	<b>15.5</b> <b>13.0</b>	Direct	3-Alm
<b>Oscillating Black Models</b>							
VDF201HOB2	20"	1	3(H) (M) (L)	<b>2,340</b> <b>2,280</b> <b>2,250</b>	<b>13.0</b> <b>20.4</b> <b>23.2</b>	Direct	3-Alm
VDF241HOB2	24"	1	3(H) (M) (L)	<b>3,820</b> <b>3,350</b> <b>3,050</b>	<b>15.7</b> <b>20.2</b> <b>21.5</b>	Direct	3-Alm
VDF301HOB2	30"	1	3(H) (M) (L)	<b>6,520</b> <b>6,060</b> <b>4,970</b>	<b>14.0</b> <b>14.9</b> <b>13.2</b>	Direct	3-Alm
<b>Oscillating White Models</b>							
VDF201HOW2	20"	1	3(H) (M) (L)	<b>2,340</b> <b>2,280</b> <b>2,250</b>	<b>13.0</b> <b>20.4</b> <b>23.2</b>	Direct	3-Alm
VDF241HOW2	24"	1	3(H) (M) (L)	<b>3,820</b> <b>3,350</b> <b>3,050</b>	<b>15.7</b> <b>20.2</b> <b>21.5</b>	Direct	3-Alm

\* Experts choice

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

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# Heavy-Duty Industrial Pedestal Fan

J&D's Heavy-Duty Industrial Pedestal Fan is an efficient and portable air circulator. It's perfect for keeping machinery and employees cool in the warm summer heat.

## Features

- Heavy gauge, corrosion-resistant, powder coated fan guards, base, and pole
- Pedestal pole has a chrome insert tube to adjust the center height of the fan from 3'10" to 5'2"
- Direct drive and quiet operation
- Wide, low profile base with 4" rubber wheels to easily transport the fan
- Attached cord with 3-prong plug pre-wired for 115 Volts
- Available in oscillating models with an 80° pivot range, or non-oscillating models
- 3-blade aluminum propeller
- 30" oscillating fan has ½ HP high output performance motor
- Guard meets OSHA 1910.212(a)(5) requirements
- Totally enclosed, maintenance-free, high-efficiency motors have completely sealed ball bearings, and are covered by a **2 Year Warranty**

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/ Watt	Drive	Prop
<b>Single Phase</b>							
<b>Non-Oscillating</b>							
VDF20WB2	20"	1	2(H)	<b>2,550</b>	<b>13.3</b>	Direct	3-Alm
			(L)	<b>1,900</b>	<b>12.7</b>		
VDF24WB2	24"	1	2(H)	<b>3,700</b>	<b>15.5</b>	Direct	3-Alm
			(L)	<b>2,050</b>	<b>13.0</b>		
<b>Oscillating</b>							
VDF201WB2	20"	1	3(H)	<b>2,340</b>	<b>13.0</b>	Direct	3-Alm
			(M)	<b>2,280</b>	<b>20.4</b>		
			(L)	<b>2,250</b>	<b>23.2</b>		
VDF241WB2	24"	1	3(H)	<b>3,820</b>	<b>15.7</b>	Direct	3-Alm
			(M)	<b>3,350</b>	<b>20.2</b>		
			(L)	<b>3,050</b>	<b>21.5</b>		
* VDF301WB2	30"	1	3(H)	<b>6,520</b>	<b>14.0</b>	Direct	3-Alm
			(M)	<b>6,060</b>	<b>14.9</b>		
			(L)	<b>4,970</b>	<b>13.2</b>		

\* Experts choice

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

**Wheels  
for easy  
transport**



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# HAF Stir Fan with Wide Guard

## Features

- Wide guard spacing reduces build-up and allows for easy cleaning so your fan remains efficient
- Maximum air circulation with minimal power usage reducing stratification and promote uniform air temperatures
- Versatile mounting bracket allows for tilt and swivel of fan to easily change direction and angle of air movement
- Totally enclosed, maintenance-free, direct drive high-efficiency motors have completely sealed ball bearings, and are covered by a **2 Year Warranty**
- Attached 10' cord with 3-prong plug pre-wired for 115 Volts (electrician may rewire for 230 Volts)



VS183

No electrician needed!  
**Hang it up**  
**Plug it in**

Bold red text is data based on testing performed by an accredited lab using ANSI/AMCA Standard 230-12  
 OSHA requires this fan to be mounted a minimum of 7' above the floor

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
<b>Single Phase</b>							
VS183	18"	1	3(H)	<b>1,560</b>	<b>21.3</b>	Direct	3-Alm
			(M)	<b>1,460</b>	<b>24.8</b>		
			(L)	<b>1,390</b>	<b>24.5</b>		

# HAF Panel Fan with Wide Guard

## Features

- Direct drive - no belts or pulleys to maintain
- Two options to fit your application:
  - Non-corrosive fiberglass housing with poly prop and stainless-steel hardware
  - Heavy-duty 18-gauge galvanized housing with aluminum prop
- Ships fully assembled and ready to hang
- 3 built-in mounting loops on the rear of the fan allow you to hang at an angle for greater control of the airflow
- Heavy gauge powder-coated wide guard on front and rear of fan to maximize airflow while protecting the blades
- Totally enclosed, maintenance-free, high-efficiency standard motors have completely sealed ball bearings, are UL and CUL recognized, and are covered by a **2 Year Warranty**
- IP66-Rated Gold Star Motors have a **3 Year Warranty**



Fiberglass Housing



Galvanized Housing

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
<b>Fiberglass Housing</b>							
<b>Single Phase with Gold Star Motor</b>							
* VPP20F13P-GS	20"	1	1	<b>4,250</b>	<b>13.8</b>	Direct	3-Ply
VPP24F13P-GS	24"	1	1	<b>4,660</b>	<b>16.6</b>	Direct	3-Ply
VPP24F12P-GS	24"	1	1	<b>6,180</b>	<b>12.2</b>	Direct	3-Ply
<b>Single Phase with Standard Motor</b>							
VPP20F13P	20"	1	1	<b>4,070</b>	<b>13.7</b>	Direct	3-Ply
* VPP24F13P	24"	1	1	<b>4,730</b>	<b>17.8</b>	Direct	3-Ply
VPP24F12P	24"	1	1	<b>6,080</b>	<b>12.1</b>	Direct	3-Ply
<b>Galvanized Housing</b>							
<b>Single Phase with Gold Star Motor</b>							
VPP20G13A-GS	20"	1	1/Var^	<b>4,140</b>	<b>11.5</b>	Direct	3-Alm
VPP24G13A-GS	24"	1	1/Var^	<b>4,020</b>	<b>13.3</b>	Direct	3-Alm
VPP24G12A-GS	24"	1	1	<b>5,470</b>	<b>15.3</b>	Direct	3-Alm
<b>Single Phase with Standard Motor</b>							
VPP20G13A	20"	1	1	<b>3,430</b>	<b>12.8</b>	Direct	3-Alm
VPP24G13A	24"	1	1	<b>4,030</b>	<b>14.0</b>	Direct	3-Alm
* VPP24G12A	24"	1	1	<b>4,790</b>	<b>12.9</b>	Direct	3-Alm

\* Experts choice

^ 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 this fan to be mounted a minimum of 7' above the floor

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# 60" Premium Indoor/Outdoor UL507 Ceiling Fan

The J&D Indoor/Outdoor Ceiling Fan provides a healthier environment with constant circulation dissipating gases and other odors, keeping the air cooler and fresher while drying walls and floors. In the summer, the fan creates a mild wind chill to gently cool. It vertically mixes warm stagnant air and disperses hot pockets which can be a breeding ground for germs and bacteria. In the winter, the fan prevents warm air from collecting in the rooftop and peaks to reduce condensation that drips down on surfaces.

## Features

- Designed for high-humidity and high-moisture applications
- UL/CUL certified (file # E130543) for outdoor and agricultural use
- Passed UL/CUL water spray test and corrosion test
- Completely sealed motor and housing
- Switch on fan allows you to reverse operation for upward or downward airflow
- 23" cord with 3-prong plug pre-wired for 115 Volts
- 10" down rod (total fan height is 21")
- High output curved steel blades
- Simple J-Hook Mount
- Corrosion-resistant white powder coated finish
- Energy efficient 9,415 CFM of air movement using less energy than a 100 Watt light bulb
- Mixes air to save you money on heating and cooling bills

Part#	Size	Ph	Spd	Thrust CFM	Drive	Prop
<b>Single Phase</b>						
CF60A	60"	1	1/Var^	9,415	Direct	3-Stl
<b>Recommended Variable Speed Controls (Not Included)</b>						
CN25	2 Fan Speed Control, 120 Volts, 2.5 Amps					
CN5	4 Fan Speed Control, 120 Volts, 5 Amps					
VFT130144	8 Fan Speed Control, 120 Volts, 10 Amps					
CN15	12 Fan Speed Control, 120 Volts, 15 Amps					

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



Smooth • Quiet • Efficient

# Fiberglass Funnel Fan

Fiberglass Funnel Fans by J&D Manufacturing come equipped with a maintenance-free, energy-efficient motor and powder coated heavy-duty mounting bracket. The durable fiberglass housing provides increased stability over regular poly funnel fans.

## Features

- Directional fan with unique housing shape throws air twice as far as conventional circulation fans to move air into the corners of your building
- Totally enclosed, maintenance-free, high-efficiency standard motors have completely sealed ball bearings and are covered by a **2 Year Warranty**
- Gold Star Motors have a **3 Year Warranty**

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
<b>Single Phase</b>							
VU20F2-GS	20"	1	1	<b>4,330</b>	<b>7.7</b>	Direct	3-Alm

\* Experts choice

**Bold red text is data based on testing performed by an accredited lab using ANSI/AMCA Standard 230-12**  
**OSHA requires this fan to be mounted a minimum of 7' above the floor**

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
<b>Single Phase</b>							
VU16F	16"	1	1	<b>1,680</b>	<b>6.3</b>	Direct	3-Alm
VU20F2	20"	1	1	<b>2,870</b>	<b>12.8</b>	Direct	3-Alm

\*



**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Diamond Brite™ Portable Drum Fan

J&D Manufacturing has created a high performance series of portable drum fans with a patented Diamond Brite™ housing. These commercial-grade fans have a rugged finish and heavy gauge powder coated fan guards that meet OSHA requirements. The cord set and poly carrying handles let you take this fan anywhere you want to move a large volume of air.

## Features

- **J&D Manufacturing's best performing drum fan!**

- Patented heavy-duty aluminum Diamond Brite™ housing (Pat. No. Des. 509,582)

- Rubber feet for reduced noise and stable operation

- Balanced high output propeller

- Ships completely assembled and ready for use

- Aluminum handles for easy moving or carrying

- Convenient cord wrap for storage and transportation

- Attached cord with 3-prong plug pre-wired for 115 Volts

- For easy transportation 30", 36", and 42" models have 8" wheels, and the 48" models have 10" wheels

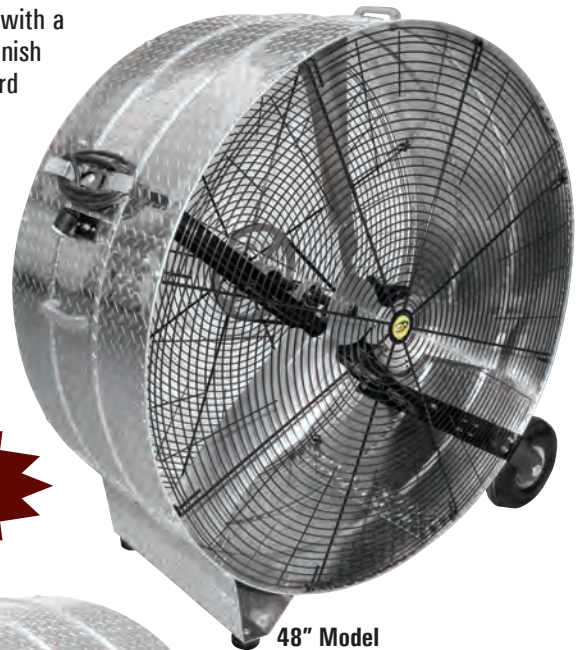
- 42" model has 2 speeds

- Heavy gauge, corrosion-resistant, powder coated wire fan guards meet OSHA 1910.212(a)(5) requirements for use at any height

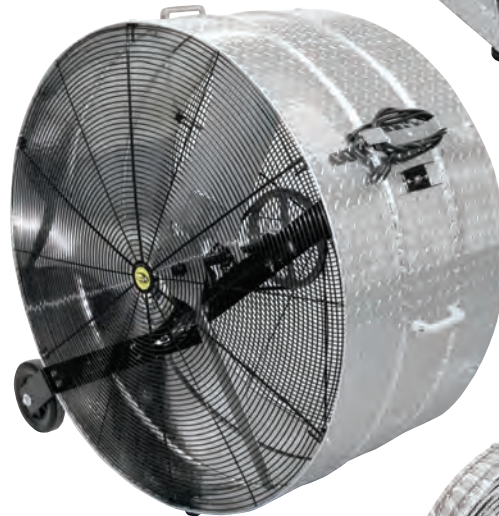
- Motors are totally enclosed (*except 42" model*), maintenance-free, high efficiency, are UL and CUL recognized, and are covered by a **2 Year Warranty**

- Compatible with our misting/fogging product line

**Guards Meet  
OSHA  
Requirements**



48" Model



42" Model



30" & 36" Models



20" Model

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/ Watt	Drive	Prop	Wheels	Switch
<b>Single Phase</b>									
VI2012B1	20"	1	1	4,760	16.0	Direct	3-Alm	None	None
VI3012WB	30"	1	1	9,100	20.0	Direct	3-Alm	8"	On Cord
VI3612WB	36"	1	1	11,800	22.0	Direct	3-Glv	8"	On Cord
VI4234WB2	42"	1	2(H)	14,440	17.3	Belt	3-Glv	8"	On Fan
			(L)	10,015	22.6				
* VI481WB	48"	1	1	23,500	25.0	Belt	3-Glv	10"	On Cord

\* Experts choice

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

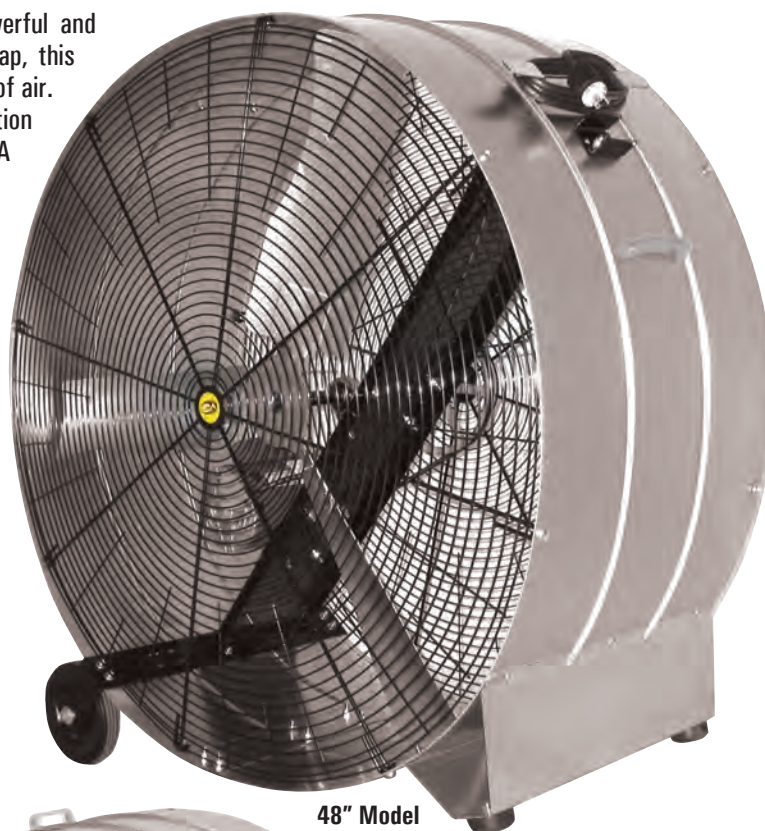


# Galvanized Portable Drum Fan

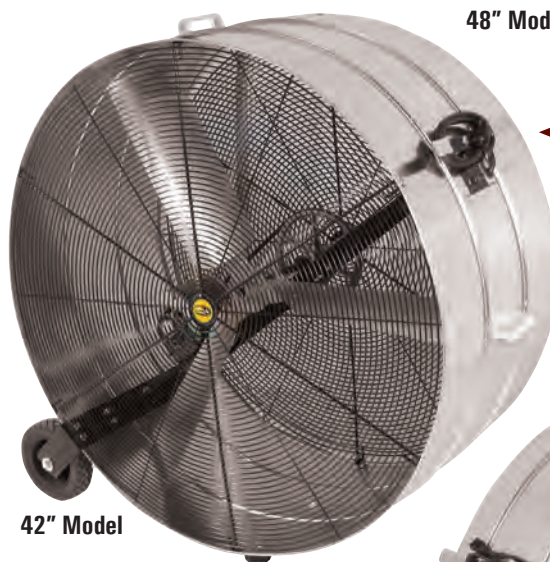
The Galvanized Drum Fan from J&D Manufacturing is powerful and portable. With sturdy wheels, carrying handles, and cord wrap, this fan is ready to roll anywhere you need to move a high volume of air. Drum Fans have heavy-duty G90 galvanized steel construction with black powder coated fan guards that meet OSHA requirements. Each fan ships fully assembled with a cord so it's ready to go right out of the box.

## Features

- Heavy-duty G90 galvanized steel housing
- Rubber feet for reduced noise and stable operation
- Balanced high output fan blade for excellent performance
- Ships completely assembled and ready for use
- Aluminum handles for easy moving or carrying
- Convenient cord wrap for storage and transportation
- Attached cord with 3-prong plug pre-wired for 115 Volts
- For easy transportation 36" and 42" models have 8" wheels, and the 48" model has 10" wheels
- Heavy gauge, corrosion-resistant, powder coated wire fan guards meet OSHA 1910.212(a)(5) requirements for use at any height
- Motors are totally enclosed (*except 42" model*), maintenance-free, high efficiency, are UL and CUL recognized, and are covered by a **2 Year Warranty**
- Compatible with our misting/fogging product line



48" Model



42" Model



36" Model

**Guards Meet  
OSHA  
Requirements**

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/ Watt	Drive	Prop	Wheels	Switch
<b>Single Phase</b>									
VI3612WG	36"	1	1	11,800	22.0	Direct	3-Glv	8"	On Cord
VI4234WG2	42"	1	2(H) (L)	14,440 10,015	17.3 22.6	Belt	3-Glv	8"	On Fan
* VI481WG	48"	1	1	23,500	25.0	Belt	3-Glv	10"	On Cord

\* Experts choice

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Confined Space Ventilator

J&D Manufacturing's positive pressure Confined Space Ventilator provides fresh air in confined spaces such as manholes, crawl spaces, attics, tanks, and trailers. The Confined Space Ventilator includes the patented heavy-duty Diamond Brite™ circulation fan and flexible high visibility ducting to direct the air exactly where you need it.

## Fan Features

- Patented heavy-duty aluminum Diamond Brite™ fan housing (Pat. No. Des. 509,582)
- 8-bladed, high output, poly propeller performs under heavy static pressure
- Direct drive - no belts or bearings to maintain
- Convenient cord wrap for storage and transportation
- Rubber feet for reduced noise and stable operation
- Aluminum handles for easy moving and carrying
- Attached cord with 3-prong plug pre-wired for 115 Volts
- Heavy gauge, corrosion-resistant, powder coated wire fan guards meet OSHA 1910.212(a)(5) requirements
- High-efficiency motor is totally enclosed and maintenance-free with sealed ball bearings and a **2 Year Warranty**
- Fan ships completely assembled and ready for use



Part#	Size	Ph	Spd	Thrust CFM	Thrust Watt	Drive	Prop
<b>Single Phase</b>							
<b>Fan with 20' of Ducting</b>							
VICS20-GLB	20"	1	1	3,025	3.0	Direct	8-Ply
<b>Fan Only</b>							
VICS20	20"	1	1	<b>3,780</b>	<b>3.9</b>	Direct	8-Ply
<b>Duct Only</b>							
VICSDUCT20	22"W x 20'L, Flexible Ducting Safety Yellow w/Adjustable Belt						

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

## Duct Features

- 22" diameter ducting expands from 18" to 20' fully extended
- High visibility safety yellow fabric with reinforced segments
- Made from flame-retardant fabric thermally sealed to an ASTM approved helical wire
- Cuff and adjustable clasp to secure ducting to fan for quick installation

# 24" Premium Direct Drive Drum Fan

## Features

- Sleek, black powder coated steel housing and cart with sturdy wheels and handles for easy transportation
- 2-speed dial to switch from LOW to HIGH speed
- Direct air exactly where you need it by tilting fan
- Attached 10' cord with 3-prong plug pre-wired for 115 Volts
- Convenient cord wrap to store cord when not in use
- Direct drive and quiet operation
- Guards meet OSHA 1910.212(a)(5) requirements for use at any height
- Fan is UL/CUL listed (File #E144918)
- Totally enclosed, maintenance-free, high-efficiency motors have completely sealed ball bearings and are covered by a **1 Year Warranty**
- Fan ships completely assembled and ready for use



**HIGH/LOW  
Two-Speed Dial**



**Stow Away  
Cord Wrap**



**Fan Tilt  
Adjustment Knob**



Part#	Size	Ph	Spd	Thrust CFM	Drive	Prop
<b>Single Phase</b>						
PDF24	24"	1	2(H) (L)	7,760 5,500	Direct	3-Alm

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# Tube Ventilation System

Tube ventilation is a unique method that gently introduces fresh air into enclosed environments without introducing harmful cold drafts.

J&D Manufacturing customizes each Tube Ventilation System for your specific application.

Call today to discuss your ventilation requirements.



**Verified  
Performance**

## System Features

- Fan, weather hood, and tube (for 12"-24" models)
- Positive pressure system
- Provides gentle fresh air induction without creating a draft
- May also provide heat distribution and air recirculation if mounted away from the end wall

## Fan Features

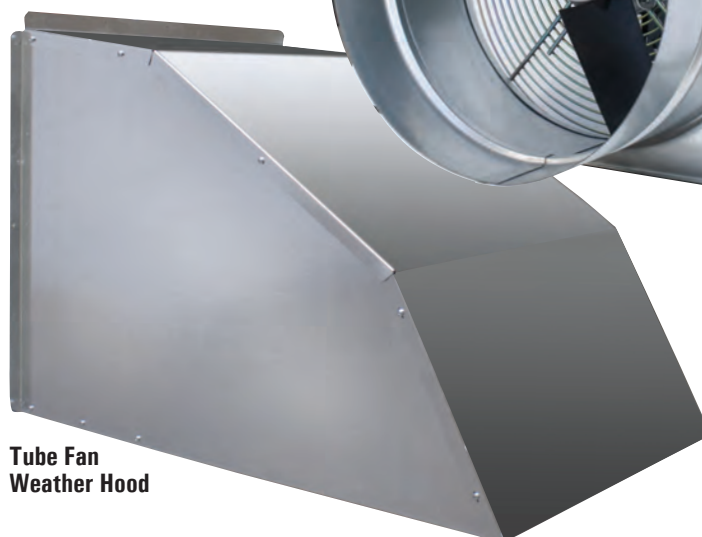
- 18-gauge galvanized housing with formed channel for securing the vent tube to the fan
- Corrosion-resistant guards
- Poly, aluminum, and galvanized propellers (not all types are available in all sizes)
- Includes cable ties for securing the tube to the fan
- Totally enclosed, maintenance-free, direct drive, high-efficiency motors have completely sealed ball bearings, are UL and CUL recognized and are covered by a **2 Year Warranty**



Tube



Tube Fan



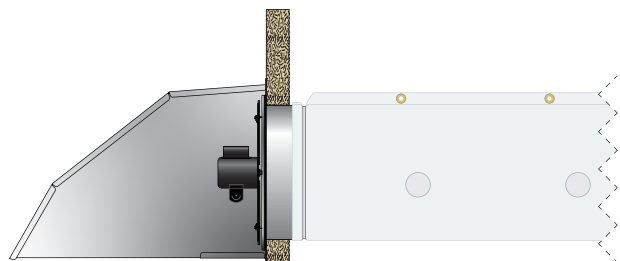
Tube Fan  
Weather Hood

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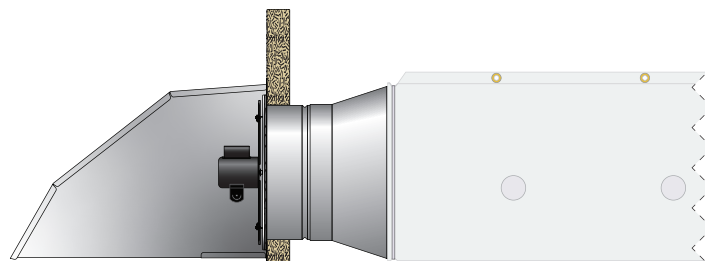


# Tube Ventilation System

**Tube is ordered separately, see Ventilation Tube page for selectable options**



Shown:  
Example of 24" Tube Fan System



Shown:  
Example of 24" Tube Fan System  
with PP10897 Tube Fan Transition

Part#	Size	Minimum Tube Diameter	Ph	Spd	CFM @ 0.18 SP	Drive	Prop
<b>12" - 24" Tube Fans With Weather Hood</b>							
<b>Single Phase</b>							
<b>12"</b>							
VTGW12P12A	12"	13"	1	1	<b>1,200</b>	Direct	8-Ply
<b>16"</b>							
VTGW16P19A	16"	17"	1	1	<b>1,900</b>	Direct	4-Ply
VTGW16P22A	16"	17"	1	1	<b>2,200</b>	Direct	3-Ply
VTGW16P27A	16"	17"	1	1	<b>2,700</b>	Direct	6-Ply
<b>20"</b>							
VTGW20P33A	20"	22"	1	1	<b>3,300</b>	Direct	2-Ply
VTGW20P35A	20"	22"	1	1	<b>3,500</b>	Direct	3-Ply
VTGW20P39A	20"	22"	1	1	<b>3,900</b>	Direct	4-Ply
<b>24"</b>							
VTGW24P41A	24"	25"	1	1	<b>4,100</b>	Direct	3-Ply
VTGW24A45A	24"	25"	1	1	<b>4,500</b>	Direct	3-Alm
VTGW24P50A	24"	25"	1	1	<b>5,000</b>	Direct	4-Ply
VTGW24P56A	24"	25"	1	1	<b>5,600</b>	Direct	4-Ply
VTGW24P61A	24"	25"*	1	1	<b>6,100</b>	Direct	4-Ply
VTGW24P65A	24"	25"*	1	1	<b>6,500</b>	Direct	4-Ply
VTGW24P72A	24"	25"*	1	1	<b>7,200</b>	Direct	4-Ply
<b>Three Phase</b>							
<b>24"</b>							
VTGW24P41A-3	24"	25"	3	1	<b>4,100</b>	Direct	3-Ply
VTGW24P44A-3	24"	25"	3	1	<b>4,400</b>	Direct	4-Ply
VTGW24P47A-3	24"	25"	3	1	<b>4,700</b>	Direct	4-Ply
VTGW24P53A-3	24"	25"	3	1	<b>5,300</b>	Direct	4-Ply
VTGW24P60A-3	24"	25"*	3	1	<b>6,000</b>	Direct	4-Ply
VTGW24P64A-3	24"	25"*	3	1	<b>6,400</b>	Direct	4-Ply
VTGW24P72A-3	24"	25"*	3	1	<b>7,200</b>	Direct	4-Ply
<b>Accessories</b>							
PP10897 Transition, Tube Fan, 32"-36" Tube to 24" Tube Fan							
* If using a 32" or larger tube with one of the 24" high performance models a Tube Fan Transition (PP10897) is recommended							
To order models without hood remove the "W" from part#							

Part#	Size	Minimum Tube Diameter	Ph	Spd	CFM @ 0.18 SP	Drive	Prop
<b>30"-36" Tube Fans Without Weather Hood**</b>							
<b>Single Phase</b>							
<b>30"</b>							
VTG30A63A	30"	32"	1	1	<b>6,271</b>	Direct	3-Alm
VTG30A69A	30"	32"	1	1	<b>6,866</b>	Direct	3-Alm
VTG30A74A	30"	32"	1	1	<b>7,351</b>	Direct	3-Alm
<b>Three Phase</b>							
<b>30"</b>							
VTG30A62A-3	30"	32"	3	1	<b>6,235</b>	Direct	3-Alm
VTG30A67A-3	30"	32"	3	1	<b>6,692</b>	Direct	3-Alm
VTG30A73A-3	30"	32"	3	1	<b>7,254</b>	Direct	3-Alm
<b>36"</b>							
VTG36GA86A-3	36"	38"	3	1	<b>8,600</b>	Belt	4-Glv
VTG36GA92A-3	36"	38"	3	1	<b>9,200</b>	Belt	4-Glv
VTG36GA96A-3	36"	38"	3	1	<b>9,500</b>	Belt	4-Glv
VTG36GA103A-3	36"	38"	3	1	<b>10,300</b>	Belt	4-Glv
VTG36GA112A-3	36"	38"	3	1	<b>11,200</b>	Belt	4-Glv
VTG36GA121A-3	36"	38"	3	1	<b>12,100</b>	Belt	4-Glv

\*\* For weather hood guidelines for the 30"-36" tube fan contact J&D

**Bold red text is data based on testing performed by an accredited lab using ANSI/AMCA Standard 210-07**

OSHA requires this fan to be mounted a minimum of 7' above the floor

**Don't forget to order your tube**

Fan Size	Fan Rough Opening	Weather Hood must be mounted centered over fan
12"	14"W x 14"H	27"W x 26"H
16"	18"W x 18"H	27"W x 26"H
20"	22½"W x 22½"H	45"W x 31"H
24"	26"W x 26"H	45"W x 31"H
30"	33"W x 33"H	++
36"	40½"W x 40½"W	++

\*\* For weather hood guidelines for the 30"-36" tube fan contact J&D

**For additional accessories to compliment your Tube Ventilation System refer to the following catalog sections, "Environmental Controls" for a complete line of J&D Controls and "Inlets" for a selection of J&D Aluminum Intake Power Shutters.**

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Ventilation Tubes

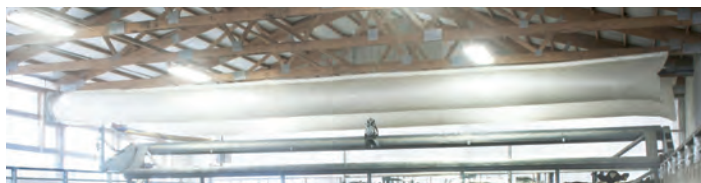


J&D's reinforced poly ventilation tubes have the quality and options to meet your needs. Whether completing your new tube system, replacing a worn or damaged tube, or just updating your airflow pattern, J&D can help. Ventilation tubes are individually built for each application to provide proper airflow.

**Call today to discuss your ventilation requirements.**

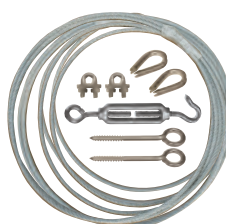
## Features

- Made from 4oz reinforced poly material
- Hole spacing and location built specifically for your application
- Tubes that qualify for standard status offer a great product at an even better price
- Custom tubes offer nearly limitless configurations for those hard to efficiently ventilate spaces
- Reinforced grommets enable the use of ring connectors or spring loaded snap clips for quick installation and easy removal for cleaning and sanitizing (grommets are spaced 2' apart on center)



## Ventilation Tube Support Kits

Part#	Description
<b>Cable Kits</b>	
HK162	50' Cable Kit, Ventilation Tube Support, w/Assembly Hdwr
HK163	100' Cable Kit, Ventilation Tube Support, w/Assembly Hdwr
HK164	150' Cable Kit, Ventilation Tube Support, w/Assembly Hdwr
HK165	200' Cable Kit, Ventilation Tube Support, w/Assembly Hdwr
<b>Tools, Rings &amp; Clips</b>	
PP10744	Pliers, Manual Hog Ring, with Spring Loaded Magazine
HD10597	Hog Rings, Aluminum Blunt Point, 9 Gauge (Qty 25)
PP10888	Snap Clip, 5/16" Spring Loaded Opening, Steel w/Zinc Finish



**50', 100', 150', & 200'  
Ventilation Tube  
Support Cable Kits**



**PP10888  
Spring Loaded  
Snap Clip**



**PP10744  
Hog Ring Pliers for  
Connecting Tube to Cable**



**Scan QR code for ventilation tube ordering worksheet**

# Permanent Magnet Direct Drive Motor

- Software-driven, intelligent, VARIABLE SPEED motor
- Works like cruise control – *it adjusts to static pressures to stay at set speeds*
- IP66-Rated



Part #	Mount	Frame	HP	Volts	Amps	Hz	Ph	SF	Spd	Output RPM	Shaft Size	Shaft Type	Cord Length
<b>Single Phase</b>													
VRPM011D412-C	Thru Bolt	56	1	230	7.8	60	1	1.10	1/V^	120-1,200	5/8"	Keyway	8'
<b>Three Phase</b>													
VRPM053F06	Rigid Base/Sleeve	132	4.0kW	460	6.15	60	3	1.10	1/V^	600	1 1/2"	Keyway	N/A
VRPM053F145	Rigid Base	132	4.0kW	460	6.15	60	3	1.10	1/V^	450	1 1/2"	Keyway	N/A
VRPM013D412-C	Thru Bolt	56	1	230	3.7	60	3	1.10	1/V^	120-1,200	5/8"	Keyway	8'

Contact J&D Manufacturing for a replacement driver.

^ Variable speed motors require separate variable speed control to adjust motor speed.

4.0kW direct drive replacement fan motors include a 2 year warranty from date of invoice from J&D Manufacturing.

## JD-Drive Motor

- Software-driven, intelligent, VARIABLE SPEED motor
- Works like cruise control – *it adjusts to static pressures to stay at set speeds*
- **NO VFD NEEDED!**
- IP66-Rated
- Surge protected
- Will not interfere with RFID



### Aluminum Housing

- Provides great heat dissipation
- Reduces motor weight
- Naturally corrosion-resistant with painted black for additional protection and easy cleaning

### Internal Onboard Driver

- Increases motor longevity
- Enables motor "soft start", no huge power surge when motor starts
- Converts AC to DC allowing motor to run at a slower speed without heating up
- 0-10v signal speed control compatible
- Provides very HIGH TORQUE

### Drop Cords

- 8' power cord
- 8' control cord

### Mount Options

- Rigid Base (shown)
- Sleeve



### Shaft

- Corrosion-resistant carbon-steel

### Motor

- Permanent magnet rotor for increased efficiency and motor life

Part #	Mount	Frame	Kw	Volts	Amps	Hz	Ph	SF	Spd	RPM	Shaft Size	Shaft Type	Cord Length
<b>Single Phase</b>													
VRPM031D06-C	Rigid Base/Sleeve	182	2.2	230	13	60	1	1.2	1/V^	60-600	1"	Keyway	8'
<b>Three Phase</b>													
VRPM033D06-C	Rigid Base/Sleeve	182	2.2	208-230	8.6-7.7	60	3	1.2	1/V^	60-600	1"	Keyway	8'
VRPM033F06-C	Rigid Base/Sleeve	112	2.2	460	4.05	60	3	1.1	1/V^	60-600	1"	Keyway	8'

^ Variable speed motors require separate variable speed control to adjust motor speed.

Permanent magnet direct drive replacement fan motors include a 3 year warranty from date of invoice from J&D Manufacturing.



# Gold Star Motor

The Gold Star Motor is an excellent option for new installations or upgrading/retrofitting old fans. This extremely versatile motor can be used to run belt or direct drive fans and can be ordered with one of three different mounted options, rigid base, thread, and yoke. The Gold Star Motor can operate in any orientation, and you'll enjoy the motor's efficiency and wash-down capability with its impressive IP66 rating. It's easy to install and easy to maintain making the Gold Star Motor the best choice.

## Features

- IP66-Rated
  - Dust tight
  - Can be washed down from any angle
- Aluminum finned housing for incredible heat dissipation
- Multiple mounting options
  - Rigid base mount
  - Thread mount
  - Yoke mount
- Tapered and sealed bearings allow this motor to operate in any position
  - Vertical, horizontal, or angled
- Shaft has both flat(s) and keyway for direct and belt drive compatibility
- Progressive rotor design for higher efficiency and longer life
- High-efficiency motors with a greater energy savings over standard motors
- Large wire access cover for easy and frustration free wiring installation
- Has built-in automatic thermal overload protection
- Class F insulation allows for a higher internal temperature rise over the ambient temperature without reducing the life of the motor
- **3 Year Warranty**

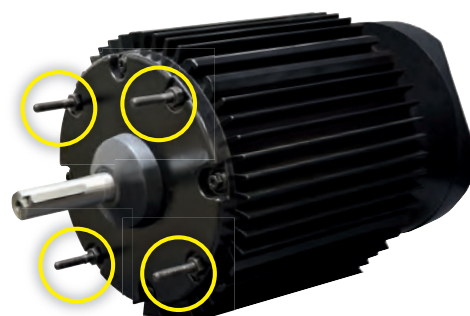
**IP66  
Rating**

J&D  
GOLD STAR  
MOTOR



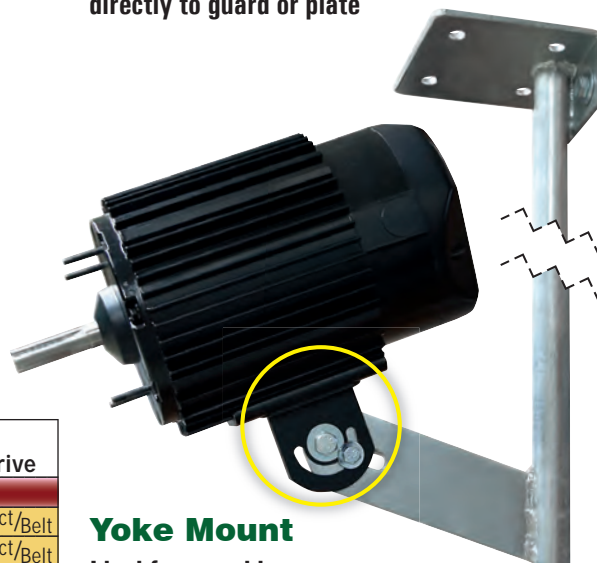
### Rigid Base Mount

Great for securing to any flat surface or frame



### Thread Mount

Perfect for mounting motor directly to guard or plate



### Yoke Mount

Ideal for attaching motor to flagged mounting brackets

Part #	HP	Volts	Amps	Hz	Ph	SF	Spd	RPM	Shaft		Drive
									Size	Type	
Single Phase											
VRA14F-C-P	¼	115/230	3.9/1.95	60	1	1.15	1/V^	1,100	½"	1 Flat/1 Key	Direct/Belt
VRA13D-P*	⅓	115/230	4.0/2.0	60	1	1.20	1/V^	1,700	½"	1 Flat/1 Key	Direct/Belt
VRA12D-P*	½	115/230	5.88/2.94	60	1	1.05	1/V^	1,700	⅝"	2 Flat/1 Key	Direct/Belt
VRA12H-P*	½	115/230	6.1/3.09	60	1	1.00	1/V^	825	⅝"	2 Flat/1 Key	Direct/Belt
Three Phase											
VRA12H3-P*	½	230/460	2.6/1.3	60	3	1.15	1/V^	825	⅝"	2 Flat/1 Key	Direct/Belt

\* Indicate desired mounting by replacing the \* with one of the following letters

**R** = Rigid Base Mount, 56 Frame

**T** = Thread Mount, 56 Frame

**Y** = Yolk Mount, 56Y Frame

^ Variable speed control required to vary motor speed, do not exceed max service factor amps

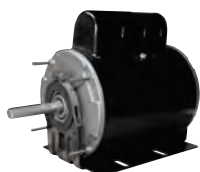
§ VRA14F-C-P available as thread mount only

**The perfect solution  
for replacement and  
retrofitting!**

# Replacement Fan Motors



Rigid Base Mount



Resilient/Cradle Mount



Thru Bolt & Yoke Mount



C-Face Mount

Part #	Mount	Frame	HP	Volts	Amps	Hz	Ph	SF	Spd	RPM	Shaft Size	Shaft Type
<b>Belt Drive Motors (without cords)</b>												
<b>Single Phase</b>												
VR12E-P	Resilient/Cradle	56Z	1/2	115/230	6.6/3.3	60	1	1.25	1	1,725	1/2"	Flat
VR1EB-P	Rigid Base	56HZ	1	115/208-230	9/4.5	60	1	1.40	1	1,750	5/8"	Keyway
VR1E2B-P	Rigid Base	56	1	208-230	4.8/3.7	60	1	1.40	2	1,725/1,160	5/8"	Keyway
VR15EC-P	Rigid Base	56	1.5	115/208-230	13.6/6.8	60	1	1.00	1	1,750	5/8"	Keyway
VR342A-P	Resilient/Cradle	56	3/4-1/4	115	8.9/6.1	60	1	1.25	2	1,725/1,140	5/8"	Keyway
VR2E-P	Rigid Base	56H	2	115/208-230	18.0/9.6-9.0	60	1	1.15	1	1,725	5/8"	Keyway
VR3EA-P	Rigid Base	184T	3	230	14.5	60	1	1.00	1	1,740	1 1/8"	Keyway
<b>Three Phase</b>												
VR013A-P	Rigid Base	56H	1	230/460	3.2/1.6	60	3	1.40	1	1,750	5/8"	Keyway
VR15E3A-P	Rigid Base	56	1.5	208-230/460	4.5/2.2	60	3	1.40	1	1,725	5/8"	Keyway
VR2E3-P	Rigid Base	56H	2	208-230/460	6.2/3.1	60	3	1.15	1	1,725	5/8"	Keyway
VR33C-P	Rigid Base	182T	3	208-230/460	9/4.5	60	3	1.15	1	1,750	1 1/8"	Keyway
VR33B-P	Rigid Base	182T	3	208-230/460	9.8/4.2	60	3	1.15	1	1,760	1 1/8"	Keyway
<b>Direct Drive Motors (without cords)</b>												
<b>Single Phase</b>												
VR110EBA-P	Thru Bolt & Yoke	48YZ	1/40	115/230	1.42/0.77	60	1	1.00	1	1,725	1/2"	2 Flats
PFM13-P	Thru Bolt	48Y	1/3	115/230	3.8/1.9	60	1	1.00	1/V	1,075	1/2"	Flat
PFM13B-P	Thru Bolt	48YZ	1/3	115/230	4.2/2.1	60	1	1.00	1/V	1,625	1/2"	2 Flats
VR13-P	Thru Bolt & Yoke	48YZ	1/3	115/230	3.8/1.9	60	1	1.00	1/V	1,700	1/2"	2 Flats
PFM12-P	Resilient/Cradle	48Z	1/2	115/230	7.1/3.6	60	1	1.00	1/V	825	1/2"	2 Flats
PFM12A-P	Resilient/Cradle	48Z	1/2	115/230	5.5/2.8	60	1	1.00	1/V	1,700	1/2"	2 Flats
VR12-P	Thru Bolt & Yoke	48YZ	1/2	115/230	4.8/2.4	60	1	1.00	1/V	1,725	5/8"	2 Flats
VR12AB-P	Thru Bolt & Yoke	48Y	1/2	115/230	6.1/3.09	60	1	1.00	1	825	5/8"	2 Flats
VR12AD-P	Rigid Base	48Z	1/2	115/230	6.1/3.09	60	1	1.00	1	825	5/8"	2 Flats
VR12F-P	Thru Bolt & Yoke	48Y	1/2	115/230	6.3/3.2	60	1	1.00	1	1,075	5/8"	2 Flats
VR1E4-P	C-Face	56C	1	230/220	5.0/4.7	60	1	1.00	1	850	5/8"	Keyway
<b>Three Phase</b>												
VR12CFA-P	Thru Bolt & Yoke	48Y	1/2	230/460	2.6/1.3	60	3	1.00	1	825	5/8"	2 Flats
VR12CFB-P	Rigid Base	48Z	1/2	230/460	2.6/1.3	60	3	1.00	1	825	5/8"	2 Flats
VR12D3-P	Thru Bolt & Yoke	48Y	1/2	230/460	1.8/0.9	60	3	1.15	1	1,720	1/2"	Flat
VR13D3-P	Thru Bolt & Yoke	48Y	1/3	230/460	1.24/.62	60	3	1.15	1	1,720	1/2"	Flat
VR1E43-P	C-Face	56C	1	230/460	5.6/2.3	60	3	1.00	1	850	5/8"	Keyway
VR1E7-P	Rigid Base	56H	1	208-230/460	3.7/1.9	60	3	1.15	1	1,140	5/8"	2 Flats
VR33D-P	C-Face	182	3	230/460	8.4/4.2	60	3	1.15	1	1,760	7/8"	Keyway

Replacement fan motors above include a 2 year warranty from date of invoice from J&D Manufacturing.

## Torque Drive Motor - Combination Motor with Gearbox

Part #	Mount	Frame	HP	Volts	Amps	Hz	Ph	SF	Spd	Output RPM	Shaft Size	Shaft Type
<b>Three Phase</b>												
VRTD008	Rigid Base	N/A	2	208-230/460	5.2/2.6	60	3	1.15	1	593	1 1/8"	Keyway

Torque direct drive replacement fan motors include a 3 year warranty from date of invoice from J&D Manufacturing.

# Replacement Fan Motors and Cords

## Oscillating Direct Drive Motors with Cord

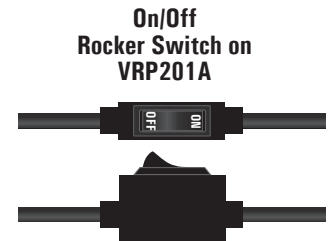
Part #	Mount	Frame	HP	Volts	Amps	Hz	Ph	SF	Spd	RPM	Shaft Size	Shaft Type	On/Off Switch	Cord Length
<b>Single Phase</b>														
VR12J-P	Thru Bolt & Yoke	48Y	1/4	115	2.5	60	1	1.05	3	1,075	1/2"	Flat	Pull Chain	16'
VR12H-P	Thru Bolt & Yoke	48Y	1/2	115	4.5	60	1	1.10	3	1,075	1/2"	Flat	Pull Chain	12'

Replacement fan motors above include a 2 year warranty from date of invoice from J&D Manufacturing.

## Direct Drive Motors with Cord

Part #	Mount	Frame	HP	Volts	Amps	Hz	Ph	SF	Spd	RPM	Shaft Size	Shaft Type	On/Off Switch	Cord Length
<b>Single Phase</b>														
VR110ES-P	Lug Mount	5.3" BC	1/32	115	0.57	60	1	1.10	3	1,550	3/8"	Flat	Pull Chain	9'
VR13ES-P	Lug Mount	5.9" BC	1/8	115	2.0	60	1	1.10	2	1,050	3/8"	Flat	Pull Chain	9'
VR183A-P	Lug Mount	5.0" BC	1/8	115	0.9	60	1	1.00	3	1,600	8mm	Flat	Dial	9'
VR18ES-P	Lug Mount	5.9" BC	1/10	115	1.35	60	1	1.00	3	1,625	3/8"	Flat	Pull Chain	9'
VR110EBA-C-P	Thru Bolt & Yoke	48	1/10	115/230	1.42/0.77	60	1	1.00	1	1,725	1/2"	2 Flats	N/A	10'
VR14B-P	Thru Bolt & Yoke	48YZ	1/4	115	3.0	60	1	1.00	2	1,100	1/2"	Flat	Pull Chain	10'
VR13C-P	Thru Bolt & Yoke	48Y	1/3	115/230	3.8/1.9	60	1	1.00	1/V	1,700	1/2"	2 Flats	N/A	10'
VR12ABC-P	Thru Bolt & Yoke	48Y	1/2	115/230	6.1/3.09	60	1	1.00	1	825	5/8"	2 Flats	N/A	6'
VR12C-P	Thru Bolt & Yoke	48Y	1/2	115/230	4.8/2.4	60	1	1.00	1/V	1,725	5/8"	2 Flats	N/A	10'

Replacement fan motors above include a 2 year warranty from date of invoice from J&D Manufacturing.



VRP201A  
VRP252  
VRP327  
110 Volt  
NEMA 5-15P  
3 Prong Plug

PP10373  
PP10054  
240 Volt  
NEMA 6-15P  
3 Prong Plug

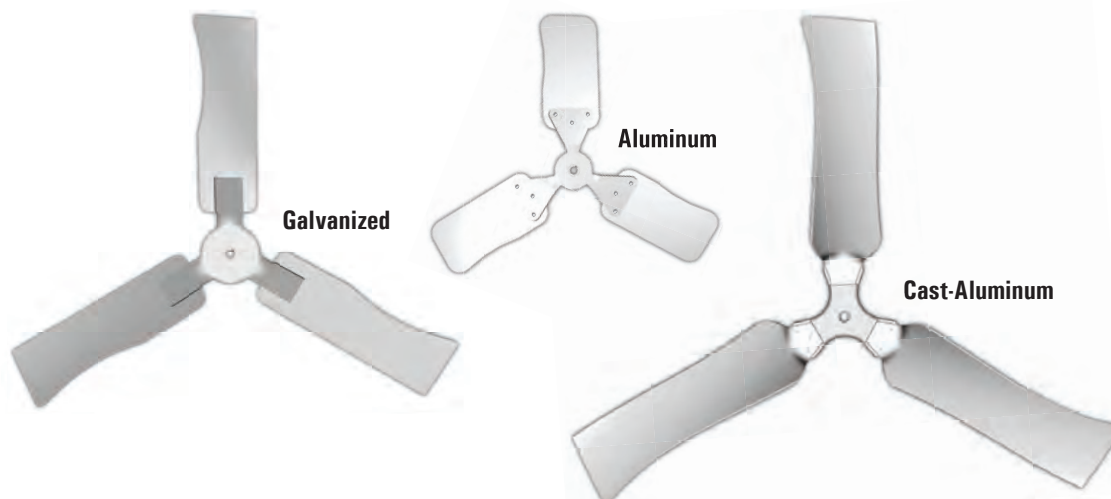


## Replacement Cords

Part#	Description	Length	AWG	Amps
<b>110 Volt Plug</b>				
VRP201A	Cord, Quick Connects, NEMA 5-15P 3-Prong Plug, with On-Off Rocker Switch	10'	16	13
VRP252	Cord, Quick Connects, NEMA 5-15P 3-Prong Plug	10'	16	13
VRP327	Cord, Quick Connects, NEMA 5-15P 3-Prong Plug	6'	16	13
<b>240 Volt Plug</b>				
PP10373	Cord, Quick Connects, NEMA 6-15P 3-Prong Plug	6'	14	15
PP10054	Cord, Quick Connects, NEMA 6-15P 3-Prong Plug	12'	14	15



# Replacement Props with Metal Blades



Part#	Bore Size	Fan Size	# of Blades	Rotation	Material	Drive
<b>10" Props</b>						
VRB10ESA-P	8mm	10"	3	CW	Alm	Direct
<b>12" Props</b>						
VRB12A325A-P	3/8"	12"	3	CW	Alm	Direct
VRB12A327A-P	1/2"	12"	3	CW	Alm	Direct
VRB12A331A-P	1/2"	12"	3	CW	Alm	Direct
<b>16" Props</b>						
VFT130136-P	1/2"	16"	3	CW	Alm	Direct
VRB16AS-P	1/2"	16"	3	CW	Alm	Direct
VRB16ESUL-P	3/8"	16"	3	CW	Alm	Direct
<b>18" Props</b>						
VRB18A-P	1/2"	18"	3	CW	Alm	Direct
VRB18A8-8-P	8mm	18"	3	CW	Alm	Direct
<b>20" Props</b>						
VFT130137-P	1/2"	20"	3	CW	Alm	Direct
VRB203-P	1/2"	20"	3	CW	Alm	Direct
VRB20A-P	1/2"	20"	3	CW	Alm	Direct
VRB20A-5816-P	5/8"	20"	3	CW	Alm	Direct
VRB20B-P	5/8"	20"	3	CW	Alm	Direct
VRB20C-P	5/8"	20"	3	CW	Alm	Direct
VRB20ESUL-14-P	3/8"	20"	3	CW	Alm	Direct
<b>24" Props</b>						
VRB24A-P	5/8"	24"	3	CW	Alm	Direct
VRBP24A-17-P	1/2"	24"	3	CW	Alm	Direct
VRB24ESUL-P	3/8"	24"	3	CW	Alm	Direct
VRB24G-P	1/2"	24"	3	CW	Gva	Direct
VRB24G4058-P	5/8"	24"	3	CW	Gva	Direct
<b>25" Props</b>						
VRB25A-P	5/8"	25"	3	CW	Alm	Direct
<b>30" Props</b>						
VRB30B-P	5/8"	30"	3	CW	Alm	Direct
VRBP30A-P	1/2"	30"	3	CW	Alm	Direct
VRB30D-P	5/8"	30"	3	CW	Alm	Direct
VRB30E-P	5/8"	30"	3	CW	Alm	Direct

Part#	Bore Size	Fan Size	# of Blades	Rotation	Material	Drive
<b>36" Props</b>						
PF36SSFBA-P	1/2"	36"	3	CCW	304-SS	Direct
VRB36D3-P	5/8"	36"	3	CW	GlV	Direct
VRB36D3SSA-P	5/8"	36"	3	CW	304-SS	Direct
VRB36E-P	5/8"	36"	3	CW	GlV	Direct
VRB36F-P	5/8"	36"	3	CW	GlV	Direct
VRB36G3-P	1"	36"	3	CW	GlV	Direct
VRB36G4-P	1"	36"	4	CW	GlV	Belt
<b>42" Props</b>						
VRB42A-P	1"	42"	3	CW	GlV	Belt
<b>48" Props</b>						
VRB48G3-P	1"	48"	3	CW	GlV	Belt
VRB48G6-P	1"	48"	6	CW	GlV	Belt
<b>50" Props</b>						
VRB50G3-P	1"	50"	3	CW	GlV	Belt
VRB50G3A-P	1"	50"	3	CW	GlV	Belt
VRB50G6-P	1"	50"	6	CW	GlV	Belt
VRB50C3-P	1"	50"	3	CW	CA	Belt
VRB50C3S-P	1"	50"	3	CW	CA	Belt
VRB50D33-P	5/8"	50"	3	CW	GlV	Direct
<b>55" Props</b>						
VRB55C3-P	1"	55"	3	CW	CA	Belt
VRB55C3I-P	1"	55"	3	CW	CA	Belt
VRB55G323-P	1 1/8"	55"	3	CW	GlV	Direct
VRB55G328B-P	1"	55"	3	CW	GlV	Belt
VRB55G331A-P	1"	55"~	3	CW	GlV	Belt
VRB55G537-P	1"	55"~	5	CW	GlV	Belt
<b>60" Props</b>						
VRB60G3A-P	1"	60"	3	CW	GlV	Belt
<b>72" Props</b>						
VRB72C5-P	1 1/2"	72"	5	CW	Alm	Belt
VRB72C5A-P	1 1/2"	72"	5	CW	Alm	Belt
VRB72C5C-P	1 1/8"	72"	5	CW	Alm	Torque

~ Approximate size

## Accessory

Part#	Description
PP10302	Shaft Collar, Fit 5/8" Bore Hub to Fit 1/2" Motor Shaft

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Replacement Props with Poly Blades for 12"-24" Fan Sizes

## CW Poly Prop Assemblies

Information needed to order poly fan prop assemblies

- **Fan Size** (12", 14", 16", 18", 20", 24")
- **Blade Pitch** (25°, 30°, 35°, 40°, 45°)
- **Number of blades on hub** (2, 3, 4\*, 6, 8\*)
- **Hub bore size in inches** (½", 5/8")
- **Hub size in inches** (3¾", 5¼")

Enter the collected information into this formula

**VRP + Fan Size + Pitch + # of Blades + Bore + Hub + -P**

Filling in this formula with your data will give you the replacement part number for your poly blade prop assembly.

Example:

You collect this information from your assembly

- **Fan Size = 24"**
- **Blade Pitch = 45°**
- **Number of Blades on hub = 6**
- **Hub bore size in inches = 5/8"**
- **Hub size in inches = 3¾"**

Enter the collected information into the formula

**VRP + 24 + 45 + 6 + 58 + 334 + -P**

Using this example your part number would be: **VRP2445658334-P**

\* 4 and 8 bladed poly assemblies, available only with the 5¼" hub



3-Wing Poly Prop



4-Wing Poly Prop

## Individual CW Poly Blades

Information needed to order individual poly fan Blades

- **Fan Size** (12", 14", 16", 18", 20", 24")
- **Blade Pitch** (25°, 30°, 35°, 40°, 45°)
- **Hub size in inches** (3¾", 5¼")

Enter the collected information into this formula

**PFPW + Fan Size + Pitch + Hub**

Filling in this formula with your data will give you the replacement part number for your poly fan blade.

Example:

You collect this information from your wing

- **Fan Size = 12"**
- **Blade Pitch = 30°**
- **Hub size in inches = 3¾"**

Enter the collected information into the formula

**PFPW + 12 + 30 + 334**

Using this example your part number would be: **PFPW1230334**

## Accessory

Part#	Description
PP10302	Shaft Collar, Fit 5/8" Bore Hub to Fit 1/2" Motor Shaft

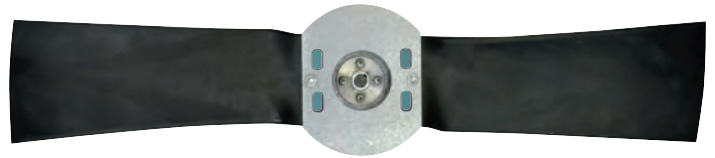
**NOTE:** All standard poly blades are for CW rotation. CCW rotation poly blades are available in a few sizes and as special order items, contact J&D for more information on a CCW availability.

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Replacement Props with FRN Blades

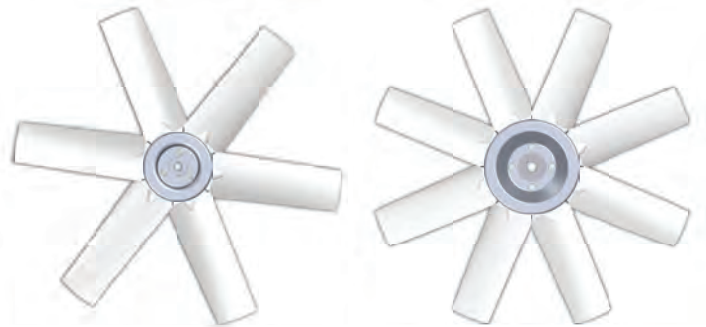
## FRN (Fiberglass Reinforced Nylon)

Part#	Bore Size	Fan Size	# of Blades	Rotation	Material	Drive
<b>36" Props</b>						
VRB36N211-P	5/8"	36"	2	CW	FRN	Direct
VRB36N213-P	5/8"	36"	2	CW	FRN	Direct



# Replacement Props for JD360

Part#	Bore Size	Fan Size	# of Blades	Rotation	Material	Drive
<b>18" Prop</b>						
VRP1835612334W-P	1/2"	18"	6	CCW	Ply	Direct
VRP1845858514W-P	5/8"	18"	8	CCW	Ply	Direct



**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# J&D Belt Drive Conversion Kits

## Already have a 55" Belt Drive Storm?

**Easily and affordably upgrade your Belt Drive Storm to the PM Direct Drive Storm today and start reaping the benefits**

### Incredible energy savings

- Slow down a Direct Drive Storm by only 10% and **save 25% on electricity** while still getting 27,735 CFM @ 0.10" SP
- Slow down a Direct Drive Storm by 30% and **save 62% on electricity** and still achieve an incredible 19,327 CFM @ 0.10" SP

Part #	Spd	Drive	Prop
<b>Single Phase</b>			
VRJ55G3PM221AG	1/V^	PM-D	3-Glv
<b>Three Phase wired for 190-240V</b>			
VRJ55G3PM223BG	1/V^	PM-D	3-Glv
<b>Three Phase wired for 380-460V</b>			
VRJ55G3PM223CG	1/V^	PM-D	3-Glv
<b>Template Kit</b>			
HK225	Drill Templates, BD to DD Retrofit		

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

### Variable Speed

- No VFD needed
- Greater control
- Savings

### Maintenance-Free

- No belts
- No pulleys
- No greasing



**3 Year Warranty**



## Already have a 72" Belt Drive Mega Storm?

**Easily and affordably upgrade your Belt Drive Mega Storm to a Mega Direct Drive or a Mega Torque today and start reaping the benefits**

### Convert to Direct Drive

Take control of your ventilation.

Convert to a highly-efficient variable speed Direct Drive. Giving you the power to create a more even and efficient air exchange for consistent air quality.



Part #	Spd	Drive	Prop
<b>Direct Drive Mega Storm</b>			
<b>Three Phase</b>			
VRJ72G3PM43C-HE	1/V^	PM-D	3-Glv

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

### Convert to Torque Drive

Don't need the variable speed?

Convert to the Torque Drive and save even more.



Part #	Spd	Drive	Prop
<b>Torque Drive Mega Storm</b>			
<b>Three Phase</b>			
VRJ72A5TD33C	1	TRQ	(5-Alm)

Torque drive conversion kit utilizes the belt drive prop.

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Belt Drive Conversion Kits

**Already have a 55" Belt Drive Munters Aerotech Exhaust Fan?**

**Upgrade your 55" Belt Drive Munters Aerotech Exhaust Fan to a Direct Drive. Leave housing in the wall, remove the old internal components, install the J&D conversion kit and start reaping the benefits immediately.**

- Software-driven, intelligent, VARIABLE SPEED motor
- Works like cruise control – *it adjusts to static pressures to stay at set speeds*
- Variable Speed
  - **No VFD needed**
  - Greater control
  - Savings
- IP66-Rated
- Motor made in the U.S.A.
- Surge protected
- Will not interfere with RFID



## Maintenance-Free

- No belts
- No pulleys
- No greasing



Part #	Spd	Drive	Prop
Three Phase wired for 380-460V			
VRMU55G3223CG	1/V <sup>^</sup>	PM-D	3-Glv

<sup>^</sup> Variable speed fans require separate variable speed control to adjust fan speed.

**Already have a 72" VES (101180-AFRS72 / 101162-AFR72) Belt Drive Exhaust Fan?**

**Upgrade your 72" Belt Drive VES Exhaust Fan to a Direct Drive.**

**Leave housing in the wall, remove the old internal components, install the J&D conversion kit and start reaping the benefits immediately.**

- Variable Speed
  - Greater control
  - Savings

## Maintenance-Free

- No belts
- No pulleys
- No greasing

Part #	Spd	Drive	Prop
Three Phase wired for 380-460V			
VRV72G3PM43C	1/V <sup>^</sup>	PM-D	3-Glv

<sup>^</sup> Variable speed fans require separate variable speed control to adjust fan speed.



**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# TAKE CONTROL OF YOUR CLIMATE

A ventilation system is only as good as the program it runs on. J&D provides a full line of automatic and manual environmental controls from the simplest, all the way up to being completely customizable. Operate everything from a single fan to your entire ventilation system across multiple facilities with remote access. Use mother nature to your advantage and run your system based on the outside conditions. Using data such as air exchange, velocity, mixing, cooling, and humidity, J&D will get you optimal results. Control ventilation (fans, curtains, inlets) and lighting with ease. Take control of the climate in your barn or building today to enjoy improved herd health, reduced energy consumption, and a more comfortable environment.

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**THE HEART OF YOUR FACILITY**



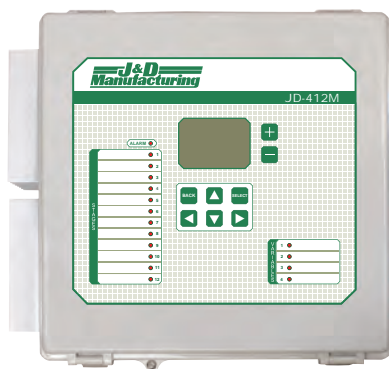
**CUSTOMIZABLE TO  
MEET YOUR NEEDS**



**EASY to Use**  
•  
**EASY to Monitor**  
•  
**EASY Reporting**

**PULSE**

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## JD412M SERIES

Use for multiple zone buildings that require fully configurable relay stages for heating/cooling, duty cycles, timed events, and curtains/inlets.

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## JD110WRS SYSTEM

An invaluable, intuitive control system that self adjusts your curtains, heaters, fans, and even soaking systems based on the external environment.



# Selecting The Right Control For Your Needs

Years ago you could just call and say, "I need a control to run my fans", and the biggest question would be how many. Times have changed and our understanding of ventilation and the needs of livestock, plants, and the benefits of a comfortable environment for employees has progressed. Controls have evolved to meet these needs by monitoring and creating environments that resolve production and health issues caused by ambient temperature, humidity, and stagnant air. Now, when looking for an environmental control, the more information you can provide, the happier and healthier your livestock, plants, and employees will be.

**Times have changed and our understanding of ventilation and the needs of livestock, plants, and the benefits of a comfortable environment for employees has progressed.**

## **First, what do you want to control?**

- Exhaust Fans
- Recirculation Fans
- Higher Pressure Fogging
- Misters
- Soaker Systems
- Curtains
- Other Inlets
- Lights

## **Second, what do you want to monitor?**

- Temperature
- Humidity
- Static Pressure
- Airflow

## **Third, what are some additional accessories you want?**

- Removable Memory Device
- Communication Card
- Remote Access
- Rain Sensor
- Scales (Bin, Floor, etc)
- Compatibility with tracking or communication software
- Etc

## **Fourth, what voltage is available at the facility?**

- Single Phase
- Three Phase

**Fifth, if possible provide a detailed, to scale, layout of the facility showing the locations of the units you want to control and monitor.**

# Control Comparisons

## Customizable Smart Control

	Pulse
Total Stages	OPT>100
Variable Speed	OPT>100
Single Speed	OPT>100
Curtain Stages	OPT>50
Inlet Actuator Stages	OPT>50
Alarm Relay	X
0-10V Module	Opt>100
Removable Relay Cards	X
Removable Variable Cards	X
Remote Access	X

## Stackable Staged Controls

	JD412M	JD412M2	JD26 Plus	JD110WRS System	JD110WRS System with JDEX802
Total Stages	16	16	8	10	18
Variable Speed	4	4	2		
Single Speed	12	12	6	10	18
Curtain Stages	4	4	3	4	8
Inlet Actuator Stages	4	4	2	4	8
Alarm Relay	X	X	X		
Boost Capacity for Variable Speed	X	X	X		
0-10V Module	Opt(max 4)	Opt(max 4)	Opt(max 2)	1	3
Removable Relay Cards	X	X	X		
Removable Variable Cards	X	X	X		

## VFD Compatible Controls

	JDAV010M	JDAV010M-C	JDAV12T	JDAV12T-C
Manual	X	X		
Automatic			X	X
Total Stages	1	1	1	1
Variable Speed	X	X	X	X
0-10V Signal	X	X	X	X
With Cord		X		X
Volts	115-277	115	115-277	115

## Remote Power Supply

	JDR3-5 24 Volt DC	JDR3-5-480 24 Volt DC
Total Stages (Open/Close)	3	3
Volts	24	24
Amps		
Watt Capacity	500	500

*Works with any control that sends an open/close signal.*

## Curtain/Inlet Controls

	JDN2	JDN5-PLUS 24 Volt DC	JDN4M-5 24 Volt DC	JDR2-5 24 Volt DC	JDR2-5-480 24 Volt DC	JDR2-5A 24 Volt DC	JDSC Switching Center
Total Stages (Open/Close)	1	5	4	2	2	2	1
Volts	115/230	24	24	24	24	24	115/230
Amps	12						
Watt Capacity		500	500	500	500	500	
Programmable	X	X					
Manual			X	X	X	X	X

## Basic Thermostats

	JDS10	JDS10-C	JDDT1	JDDT2	VC012	VC012-C	VC115	VC115-C	VC109
Total Stages	1	1	1	2	1	1	1	1	2
Single Speed			X*	X	X*	X*	X*	X*	X
Variable Speed	X	X							
With Cord		X				X		X	
Volts	115/230	115	90-255	90-255	120-240	120	115/230/277	115	115/230/277
Amps	12	12	10	10/3	12/10	12	16/12/10	16	16/12/10
Cooling	X	X	X	X	X	X	X	X	X
Heating			X	X	X	X	X	X	X
Temp. Probe	X	X	X	X					
Temp. Coil					X	X	X	X	X

\* Can be used to control 2 speed motor if off is replaced with one speed.

## Manual Fan Speed Controls

	JDMV1	JDMV1-C	CN25	CN5	VFT130144	CN15
Total Stages	1	1	1	1	1	1
Variable Speed	X	X	X	X	X	X
With Cord		X				
Volts	115/230	115	120	120	120	120
Amps	12	12	2.5	5	10	15

## Backup Thermostat for J&D PM Motors

	VCB0010VS
Total Stages	1
Single Speed	X
Variable Speed	
0-10v Signal	X
4-20mA Signal	X
With Cord	
Volts	~
Amps	16
Cooling	X
Heating	
Temp. Probe	
Temp. Coil	X

~ Dry contact relay

# Pulse

J&D Manufacturing continues to grow with new technology to make your life easier. With the Pulse, you can control your systems with the touch of a finger on your smartphone, tablet, or computer with remote access. With the ability to monitor and manage your systems quickly and efficiently, anytime or anywhere you have internet access, you can be confident you are creating and maintaining optimal conditions throughout your facility.

## THE HEART OF YOUR FACILITY

### EASILY MONITOR & CONTROL

- Entire Room Status
- Fan Groups
- Temperature
- Humidity
- Air Speed
- Room CFM
- Static Pressure
- Curtains & Other Inlets
- Heaters
- Feed Inventory
- Feed/Head
- Water/Head
- Animal Inventory



### Features

- Run up to 12 separate rooms from just ONE control
- Outstanding flexibility - 12 card slots come standard but get up to 36 slots by adding two expansion modules with 12 card slots each
- Integrated sensors detect when too much or too little power is used
- Intelligent Control so each module can continue to operate even if the main processor stops
- Livestock Tracker lets you maintain an accurate herd count without paper inventory cards
- View historical data to make repairs, refine settings, and SAVE \$
- Conforms to UL STDS 61010-1 and 61010-2-201
- Certified to CSA STD C22.2 No. 61010-1
- **2 Year Limited Warranty**

Contact J&D for information on ordering.



# Pulse



## Screen

- Easy to use with intuitive menu
- 15" touch screen

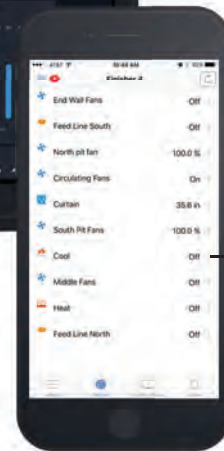
## Quick Glance Status

- Side lights indicate how well things are running and urgency level



## Remote Control

- Allows full management from any computer or tablet anywhere (requires internet connection)



## System Alerts

- App is available for smartphones to monitor alerts



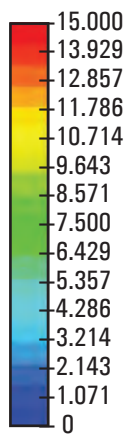
## The perfect control for our PM Direct Drive Products!

Mega Direct Drive • Super Magnum • Magnum • The Force  
Direct Drive Storm • Legend • Light Trap Combination System  
AirBlaster • PM Panel Fans

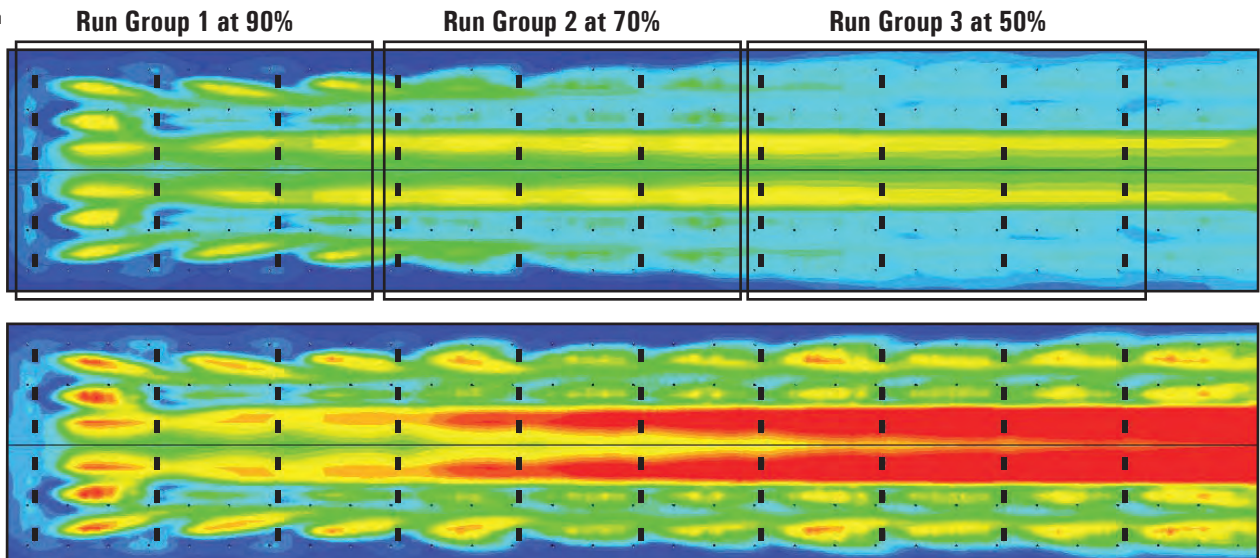
## Control your fans to maintain a more uniform air velocity while maximizing efficiency.

Grouping PM Direct Drive recirculation fans and running them at different speeds, enables you to maintain a consistent MPH throughout the length of your facility while saving energy on Groups 2 and 3.

60' spacing between fan banks



Velocity (mile/h)  
Cut Plot 1: contours



All at 100%

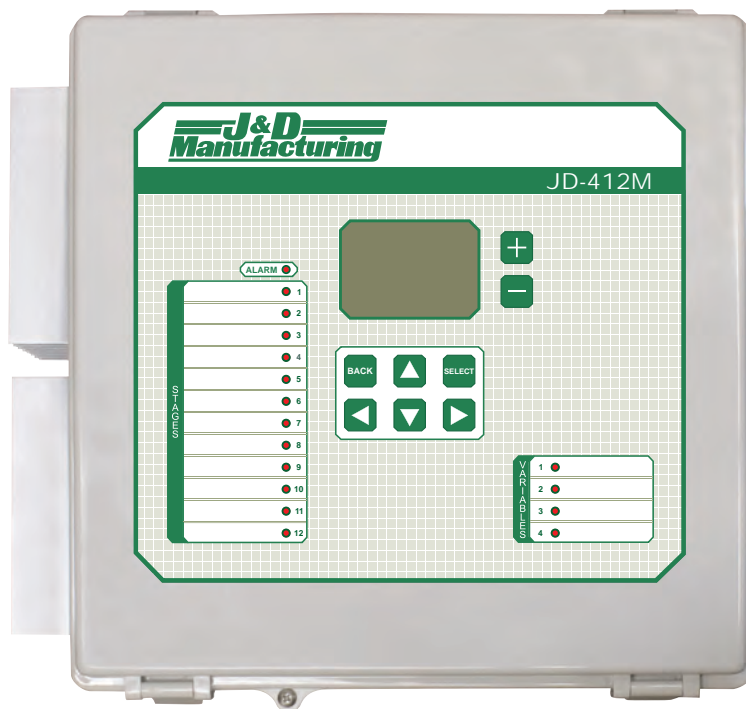
# JD412M Series

## 12 and 16 Stage Ventilation Controls

The JD412 series of controls are great for multiple zoned buildings, large facilities requiring 4 sensor inputs, or smaller separate environments.

### Features

- 8x20 character LCD display
- Fahrenheit or Celsius display
- Adjustable motor curves
- Input Capabilities:
  - Up to 4 inside temperature sensors
  - 1 outside temperature sensor
  - 1 humidity sensor
  - 4 potentiometer inputs
- Humidity shut-off feature for evaporative cooling applications (*requires optional JDRH1 humidity sensor*)
- Manual override
- Password security to prevent unauthorized setting changes
- Adjustable open/close and idle durations (1-900 seconds)
- 115 or 230 Volt, 50/60 Hz
- Includes one standard 30' temperature sensor (extends up to 500')
- Range of relative set points from main set point  
+ - 90°F ( + -32°C)
- Ambient temperature range 32 to 122° F (0 to 50° C)
- Rugged and sealed enclosure (13" x 13" x 5 1/4")



**FarmQuest**  
Online Monitoring  
and Management

**FarmSite**  
Management  
Software

**Wi Farm**  
Wireless  
Network

- Modular board design allows you to easily replace, repair, and expand individual relay boards while leaving the main board in place
- Compatible with FarmQuest, FarmSite, and Wi Farm telesystem technologies
- **2 Year Limited Warranty**

### Outputs:

Part#	Description
JD412M	Control, 4 Var, 12 On-Off Ventilation Stages, 1HP Boards
JD412M2	Control, 4 Var, 12 On-Off Ventilation Stages, 2HP Boards
<b>Accessories</b>	
JDM010	External module, 2 outputs, 0-10V each, 20MA, 230V
JDR3-5	Remote Power Supply, (3) 24 VDC Motors, 500W, 115/230V
JDR3-5-480	Remote Power Supply, (3) 24 VDC Motors, 500W, 480V
JD512M	Removable Memory Device
JD1264	Communication Card
JD200410K	Temperature Probe, with 1' wire
JD200410K-10	Temperature Probe, with 10' wire
JD200410K-30	Temperature Probe, with 30' wire
JD200410K-75	Temperature Probe, with 75' wire
JDRH1	Humidity Sensor, 15' Cable

	JD412M	JD412M2
Independent Variable Stages (12 FLA)	4*	4*
Configurable Relay Stages (12 FLA) for:	12	12
- Heat/Cool		
- Duty cycles		
- Timed events		
- Curtains/Inlets		
Relay Board Size	1HP	2HP

\* A maximum of (2) JDM010 External Modules may be added to either a JD412M or JD412M2 control increasing your number of 0-10V Variable Stages by 2 per module for a total of (4) 0-10V Variable Stages.

# JD26 PLUS

## 8 Stage Ventilation Control

### Features

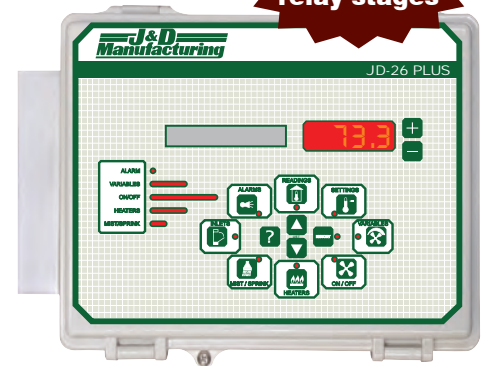
- Input Capabilities:
  - Up to 4 inside temperature sensors
  - 1 outside temperature sensor
  - 1 humidity sensor
  - 2 potentiometer inputs
- Outputs:
  - 2 independent variable stages (12 FLA)
  - 6 relay stages (12 FLA)
  - 1 alarm relay
- Easy-to-use navigation buttons
- Two line x 24 character screen
- Eight hot keys for quick access
- Indicator status lights for outputs
- Fahrenheit or Celsius display
- Adjustable motor curves
- Fully configurable relay stages (12 FLA):
  - Heat
  - Cool
  - Duty cycles
  - Curtains
  - Actuator controls
- Manual override
- Password security to prevent unauthorized setting changes
- Adjustable open/close and idle durations (1-900 seconds)

- Adjustable high/low temperature alert settings
- Includes one standard 30' temperature sensor (can be extended up to 500' with purchase of additional wire)
- Ambient temperature range 32° to 113°F (0° to 45°C)
- Rugged and sealed enclosure
- **2 Year Limited Warranty**

**Fully configurable relay stages**

Part#	Description	Volts	Hz	Amps
JD26PLUS	Control, 8* Stage Ventilation Control	115/230	50/60	12 FLA
<b>Accessories</b>				
JDM010	External module, 2 outputs, 0-10V each, 20MA, 230V			
JDR3-5	Remote Power Supply, (3) 24 VDC Motors, 500W, 115/230V			
JDR3-5-480	Remote Power Supply, (3) 24 VDC Motors, 500W, 480V			
JDM4	Removable Memory Device			
JDM4U	Removable Memory Device, Plus Programmer & USB			
JNETIN2	PC Communication Board			
JD200410K	Temperature Probe, with 1' wire			
JD200410K-10	Temperature Probe, with 10' wire			
JD200410K-30	Temperature Probe, with 30' wire			
JD200410K-75	Temperature Probe, with 75' wire			
JDRH1	Humidity Sensor, 15' Cable			

\* A maximum of (1) JDM010 External Modules may be added to a JD26PLUS control increasing your number of 0-10V Variable Stages by 2.



# JDN2

## Natural Ventilation Control

The JDN2 is a microprocessor based control designed to effectively operate a curtain or other inlet machine.

### Features

- Input capabilities:
  - 1 inside temperature sensor
- Outputs:
  - 2 relay stages to run 1 curtain or inlet stage (12 FLA)
  - 1 alarm relay
- 5 character LED display and status LEDs
- Fahrenheit or Celsius display
- Manual override
- Password security to prevent unauthorized setting changes

Part#	Description	Volts	Hz	Amps	Stages
JDN2	Natural Ventilation Control	115/230	50/60	12 FLA	2
<b>Accessories</b>					
JDM4	Removable Memory Device				
JDM4U	Removable Memory Device, Plus Programmer & USB				
JD200410K	Temperature Probe, with 1' wire				
JD200410K-10	Temperature Probe, with 10' wire				
JD200410K-30	Temperature Probe, with 30' wire				
JD200410K-75	Temperature Probe, with 75' wire				

- Adjustable open/close and idle durations (1-900 seconds)
- Adjustable high/low temperature alert settings
- Temperature range 32 - 113°F (0 - 45°C)
- Rugged and sealed enclosure
- Includes one standard 30' temperature sensor (can be extended up to 500' with purchase of additional wire)
- **2 Year Limited Warranty**





# JD110WRS System

The JD110WRS is an invaluable, intuitive control system that self adjusts your facility based on the external environment. Adjusting environmental solutions like curtains, heaters, and fans to minimize the negative effects of cold winds and blowing precipitation while optimizing natural ventilation.

## Control\*

- Specially designed to work with curtained facilities – Programming options that make sense
- Easy to wire – DC curtain motors connect directly to controller
- Protection – Monitors current to protect curtain drive motors
- Flexible – Extra circuits can be programmed to operate many other facility functions from fans to curtains
- Easy to program – Easy-to-understand screens and options allow for frustration-free programming and adjusting
- Includes
  - Motor load amp sensor
  - 50' temperature sensor

## Weather Station

- Responsive system – Provides data that is processed by the control enabling individual curtains to self adjust based on the combined data of outdoor temperature, wind direction, wind speed, and precipitation
- Healthier environment
  - Less drafts - Weather station allows the controller the ability to respond to changes in wind direction
  - Increased fresh air - On still nights, the curtain will stay open longer reducing heat and moisture build-up that would have to be mechanically removed later
- Includes
  - Rain sensor
  - Wind speed sensor
  - Wind direction sensor
  - Mounting pole and bracket

## Optional Expansion Pack-JDEX802\*

The optional Expansion Pack provides additional circuits that will enable the main controller to manage a larger quantity of environmental solutions from one screen.

\* Motor lead length limit is ~200', optional higher voltage outputs are available that enable motor lead length up to 400'



Part#	Description
JD110WRS	Control, (1) 0-10v, (10) On/Off Stages, w/Temp, Rain, Wind Direction and Speed Sensors
<b>Accessories</b>	
JDEX802	Expansion Pack, JD110WRS & JD110, (2) 0-10v, (8) On/Off Stages
JDRPH-050	Humidity Sensor, Sintered Filter, 55' cord w/Disconnects
JDR3-5-480	Control, Remote Power Supply, (3) 24 VDC Motors, 500W

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

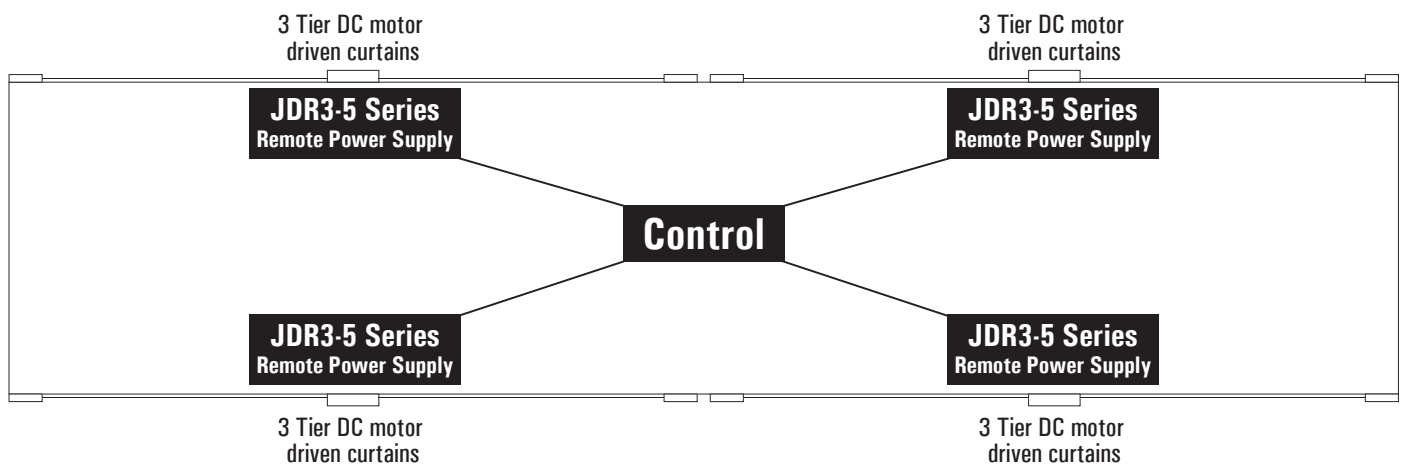
# JDR3-5 Series - Remote Power Supply

## Features

- Economical way to expand the
  - Pulse
  - JD412M
  - JD412M2
  - JD26PLUS
  - JD-110
  - JD110WRS
  - JDN5-PLUS
  - Any control that sends an open/close signal.
- Power 3 additional 24 VDC curtain drives per unit
- Uses circuit breakers instead of fuses for easy reset
- Rugged enclosure (11¾" x 15½")



ENVIRONMENTAL CONTROLS



Part#	Description	Volts	Watt Capacity
JDR3-5	Remote Power Supply, (3) 24 VDC Motors, 500W, 115/230V	24	500
JDR3-5-480	Remote Power Supply, (3) 24 VDC Motors, 500W, 480V	24	500

# Programmable 24 Volt DC Control

## JDN5-PLUS

### 5-Unit Automated Control



### Features

- Touch screen display, easy to change settings
- Individual adjustable temperature differential and set-points for each stage
- Adjustable open/close time (1-255 seconds)
- Adjustable idle duration (1-25 minutes)
- Manual override to open/close curtains or inlets
- Battery backed clock
- Fahrenheit or Celsius display
- Includes 500 Watt DC power supply
- Power supply features thermal overload protection
- Uses a circuit breakers instead of fuses for easy reset
- Includes 3' temperature probe (can be extended up to 100' with purchase of additional wire)
- Rugged enclosure 11 3/4" x 15 1/2"

### Input Capabilities:

- (2) temperature sensor
- (1) humidity sensor
- (3) rain sensors
- (1) wind meter

### Outputs:

- (10) relay outputs equals (5) sets of 2 relay stage (open/close) outputs

Part#	Description	Volts	Watt Capacity
JDN5-PLUS	Control, 5 Unit, Automated, with 3' Temperature Probe	24	500
<b>Accessories</b>			
JDR3-5	Remote Power Supply, (3) 24 VDC Motors, 500W, 115/230V		
JDR3-5-480	Remote Power Supply, (3) 24 VDC Motors, 500W, 480V		
JDEX02	Expansion Module for JDN5-PLUS, adds (2) 0-10v zones		
JD200410K	Temperature Probe, with 1' wire		
JD200410K-10	Temperature Probe, with 10' wire		
JD200410K-30	Temperature Probe, with 30' wire		
JD200410K-75	Temperature Probe, with 75' wire		
JD0024	Rain Sensor		
JDRPH-050	Humidity Sensor, Sintered Filter, 55' cord w/Disconnects		

Optional rain sensor with adjustable sensitivity and heated sensing plate to quickly dry residual rain, results in a quicker reopen curtain response.

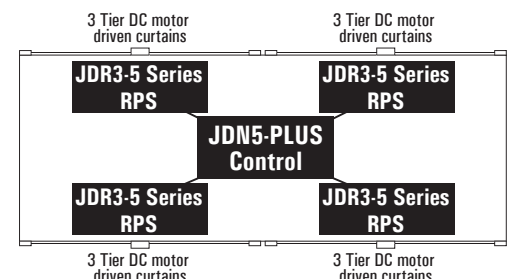


**NOTE:** If using relays for fans

- Wind speed input
  - Can switch fans to off when it's windy outside to save electricity
- Temperature input
  - Can adjust 0-10v variable speed fan to increase speed as temperature increases

## JDR3-5 Series Remote Power Supply Features

- Economical way to expand JDN5-PLUS
- Power 3 additional 24 VDC curtain drives
- Rugged enclosure (11 3/4" x 15 1/2")





# Manual 24 Volt DC Controls

## JDN4M-5

### 4-Unit Manual Control

#### Features

- Manual control to open/close curtains or inlets
- Includes 500 Watt DC power supply
- Watertight toggle switches
- Thermal overload protection
- Rugged enclosure (7½" x 11¼" x 5¾")



Part#	Description	Volts	Watt Capacity
JDN4M-5	Control, 4 Unit, Manual	24	500

## JDR2-5 Series

### Manual/Remote 2-Unit Control

#### Features

- May be used as a standalone manual control or as a remote controlled power supply with other compatible ventilation controls
- Uses circuit breakers instead of fuses for easy reset
- Compatible with the JD412M to control 2 of the 24 VDC curtain motors (using 4 relay stages)
- Rugged enclosure (7½" x 11¼" x 5¾")



Part#	Description	Volts	Watt Capacity
JDR2-5	Control, 2 Unit, Manual/Remote, 115/230V	24	500
JDR2-5A	Control, 2 Unit, Manual/Remote, 115/230V, w/Amp Sensor	24	500
JDR2-5-480	Control, 2 Unit, Manual/Remote, 480V	24	500

# JDAV010M Universal Control

A simple but unique universal control that enables you to control anything that uses a 0-10V input signal for adjusting output like fans, LED lights, and pumps.

## Features

- Simple ON/OFF, easy-grip rubber toggle switch
- Large dial with numbered increments

Part#	Description	Volts	Hz	Stages
JDAV010M	Control, Manual, 0-10V, ON/OFF Switch and Dial	115-277	50/60	1
JDAV010M-C	Control, Manual, 0-10V, ON/OFF Switch and Dial, with Cord	115	60	1

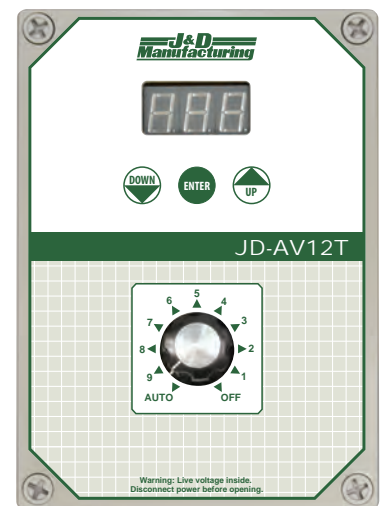


# JDAV12T - VFD Compatible Control

An easy to install and operate control designed for VFDs (variable frequency drives) to vary the speed of ventilation fans.

## Features

- Automatically adjusts output signal according to temperature
- (1) 0-10 volt output (*0.005 amps load maximum*)
- (2) dry contact relays
- Adjustable temperature settings
- Maximum speed limiter function, perfect for calf housing areas where strong drafts can adversely affect sensitive animals
- Add the optional wind speed sensor (*not included*) for additional input enabling control to automatically adjust VFD according to wind strength, saving electricity when natural wind is present
- Digital display
- Manual override knob for VFD speed
- Temperature can be viewed in Fahrenheit or Celsius
- Includes temperature sensor with 10' wire
- Rugged and sealed enclosure (5" x 7" x 2")



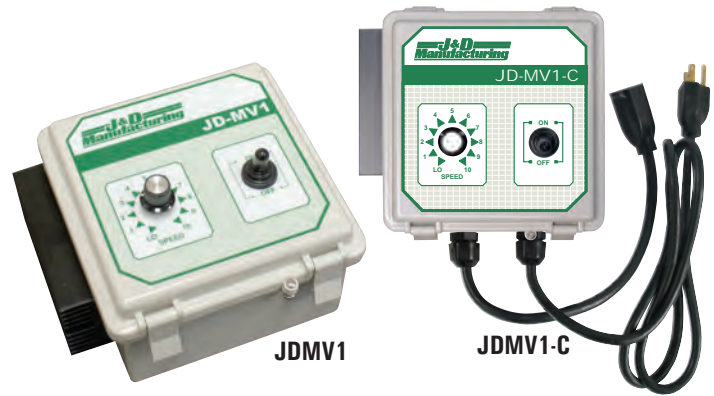
Part#	Description	Volts	Hz	Stages
JDAV12T	Control, Auto Temp Adjusting, Variable Output with 10' Temperature Probe	115-277	50/60	1
JDAV12T-C	Control, Auto Temp Adjusting, Variable Output with 10' Temperature Probe and Cord	115	60	1
<b>Accessories</b>				
JDAVWS	Wind Speed Sensor, for JDAV12T and JDAV12T-C controls, with 100' Cord			
JD200410K	Temperature Probe with 1' Wire			
JD200410K-10	Temperature Probe with 10' Wire			
JD200410K-30	Temperature Probe with 30' Wire			
JD200410K-75	Temperature Probe with 75' Wire			

# JDMV1 & JDMV1-C

## Manual, Variable Speed Controls

### Features

- Outputs:
  - 1 variable speed output (12 FLA)
  - 15 amp overload protection fuse
- ON/OFF switch and manual variable output knob
- Internal adjustable "LO" output setting
- Rugged and sealed enclosure (6"x6"x3¾")
- **2 Year Limited Warranty**



Part#	Description	Volts	Hz	Amps	Stages
JDMV1	Control, Manual Variable Output	115/230	50/60	12 FLA	1
JDMV1-C	Control, Manual Variable Output with 8' Cord	115	60	12 FLA	1
<b>Replacement Parts</b>					
JDMV1-DB-B	Display Board				
JDMV1-MB-B	Main Board				

# JDS10 & JDS10-C

## Automatic, Temperature Adjustable, Variable Speed Controls

### Features

- Input Capabilities:
  - Working temperature range 45° to 95°F (7 to 35°C)
  - Ambient temperature range 32° to 113°F (0 to 45°C)
  - 1' Temperature probe (can be extended up to 500' with purchase of additional wire)
- Internal settings:
  - Temperature differential
  - Minimum speed adjustment
  - Auto shut off mode
  - 2-second full start mode
- Rugged and sealed enclosure (6" x 6" x 3¾")
- **2 Year Limited Warranty**
- Outputs:
  - 1 variable speed output (12 FLA)
  - 15 amp overload fuse protection



Part#	Description	Volts	Hz	Amps	Stages
JDS10	Control, Auto Temp Adjusting, Variable Output with 1' Temperature Probe	115/230	50/60	12 FLA	1
JDS10-C	Control, Auto Temp Adjusting, Variable Output with 1' Temperature Probe and 8' Cord	115	60	12 FLA	1
<b>Replacement Parts</b>					
JDS10-DB-B	Display Board				
JDS10-MB-B	Main Board				
<b>Accessories</b>					
JD200410K	Temperature Probe with 1' Wire				
JD200410K-10	Temperature Probe with 10' Wire				
JD200410K-30	Temperature Probe with 30' Wire				
JD200410K-75	Temperature Probe with 75' Wire				



# JDDT1 & JDDT2

## Weather Proof Digital Temperature Switch with Sensor

The JDDT1 single stage and JDDT2 dual stage temperature switches from J&D Manufacturing provide reliable temperature control with weatherproof enclosures. The bright, easy-to-read LED display shows the current output status and the temperature measurement.

### Features

- Weatherproof enclosure
- Single or dual stage models
- Configuration key
- Adjustable differential
- Physical and passcode parameter setting protection
- Includes 10' temperature probe

Part#	Description	Volts	Hz	Amps@110V	Stages
JDDT1	Single Stage Digital Thermostat	90-255	50/60	10	1
JDDT2	Two Stage Digital Thermostat	90-255	50/60	10/3	2
<b>Accessories</b>					
JDDTP-10SS	10' Sensor, Epoxy Filled Stainless-Steel Sheath, -58° to 230°F				



# JDSC Switching Center

### Features

- Manual control to open/close inlets or AC curtain systems
- May be used as a standalone manual control or as a manual override
- Uses circuit breakers instead of fuses for easy reset
- Watertight toggle switches
- Thermal overload protection
- Rugged enclosure (7½" x 11¼" x 5¾")

Part#	Description	Volts
JDSC	Switching Center with Relay	115/230



# Wall Mount Variable Speed Controls

These economical manual variable speed controls use full-wave phase control circuitry to minimize power loss, reducing energy requirements while you control your variable speed fan.

### Features

- Use for Shaded Pole, Permanent Split Capacitor (PSC), & Universal AC/DC motors
- Built-in ON/OFF AC line switch
- Minimum speed trimpot
- RFI noise suppression filter (provides RFI and EMI suppression)
- Flame retardant ABS enclosure
- All models mount in a standard 2" x 4" electrical wall box
- UL/CUL listed (file# E51028)
- CSA certified (file# 030837\_0\_000)

Part#	Description	Volts	Amps
CN25	Speed Control, 2* Ceiling Fans	120	2.5
CN5	Speed Control, 4* Ceiling Fans	120	5
VFT130144	Speed Control, 8* Ceiling Fans	120	10
CN15	Speed Control, 12* Ceiling Fans	120	15

\* Quantity of fans references the CF60 series of J&D ceiling fans only. For all other installations the total accumulated amp draw must not exceed the listed amps for that control.



**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# VCB0010VS

## Mechanical Backup Thermostat for PM Direct-Drive Powered Fans

J&D Manufacturing's rugged VCB0010VS is a durable, backup thermostat that is ideal for animal confinement buildings, greenhouses, and many other applications. Knowing you have backup control in case of primary control failure will give you the peace-of-mind you're looking for.

### Features

- Compatible with 0-10v and 4-20mA analog signals
- Rugged, weather resistant, moisture-proof NEMA 4x enclosure
- Use for cooling
- Large visible dial
- 3°F (1.3°C) differential
- Coiled stainless-steel sensor provides rapid response to temperature change
- UL listed (File# E50023) and CSA certified (#030247\_0\_000)

**Who knew  
peace-of-mind  
could be so  
affordable**



Part#	Description	Dial Set Points	Size
VCB0010VS	Backup Moisture Proof Thermostat	40° to 100°F (5° to 38°C)	3½" x 7" x 5"

## Dependable VC Thermostats

J&D Manufacturing's rugged basic VC thermostats are perfect for applications that require a simple control. They may be wired for heating or cooling to control your exhaust fan, circulation fan, power shutter, heater, or heat lamp. For plug-and-go operation, the VC012-C and VC115-C are pre-wired with a 115 Volt 8' piggyback cord. Simply plug the thermostat into a grounded outlet, then plug your exhaust fan, circulation fan, or power shutter into the back of the thermostat plug for instant operation. No electrician needed!

### Features

- Use for heating or cooling
- Large visible dial
- Coiled stainless-steel sensor provides rapid response to temperature change



VC012



VC012-C



VC115



VC115-C

	VC012	VC012-C	VC115	VC115-C	VC109
Stages	1	1	1	1	2
With Cord		X		X	
Volts	120-240	120	115/230/277	115	115/230/277
Hz	50/60	60	50/60	60	50/60
Amps	12/10	12	16/12/10	16	16/12/10
Recalibratable	X	X			
UL listed File#	E357053	E357053	E50023	E50023	E50023
CSA certified #	N/A	N/A	030247_0_000	030247_0_000	030247_0_000
Dial Set Points	40° to 100°F (5° to 38°C)	40° to 100°F (5° to 38°C)	40° to 110°F (5° to 43°C)	40° to 110°F (5° to 43°C)	40° to 110°F (5° to 43°C)
Differential	2.4°F (1.3°C)	2.4°F (1.3°C)	3°F (1.3°C)	3°F (1.3°C)	3°F (1.3°C)
Enclosure	IP66 (weather resistant)	IP66 (weather resistant)	NEMA 4x (weather resistant)	NEMA 4x (weather resistant)	NEMA 4x (weather resistant)
Size	4½" x 6¾" x 2½"	4½" x 6¾" x 2½"	3" x 6½" x 2½"	3" x 6½" x 2½"	3½" x 7" x 5"

The VC109 is a durable, dual stage thermostat that is ideal for applications requiring a moisture-proof mechanical thermostat.



VC109

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).





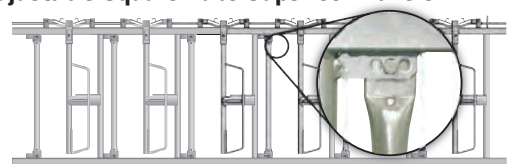
### **Magnum 58" Exhaust Fan**

*The Magnum 58" Exhaust Fan uses our maintenance-free, direct drive, permanent magnet motor with internal motor driver that allows for precise and uniform variable speed control.*

### **Hercules**

#### **Heavy-Duty Adjustable Square Tube Superlock Panels**

*The HEAVIEST headlocks on the market with adjustable neck openings.*



CURTAINS





# QUALITY CURTAIN SYSTEMS THAT LAST

J&D manufactures the highest quality barn curtains to help you control air movement and flow through your barn or building. Keep your livestock cooler in the summer and warmer in the winter with a curtain system that opens and closes with ease. We design each system with your specific needs and environment in mind, as well as our promise of easy installation and trouble-free operation. We also offer reinforced replacement curtains, shade cloths, and PVC coated wire mesh to protect your curtains from the most curious of cows.

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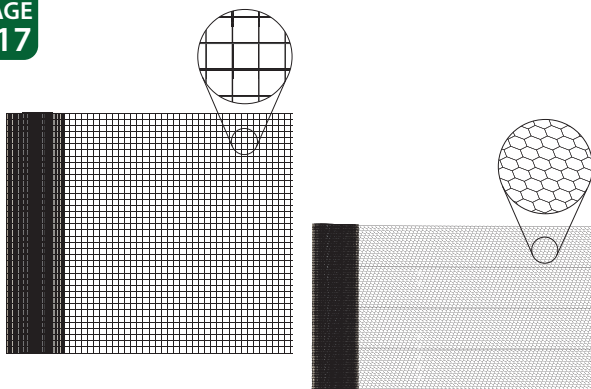


J&D Manufacturing's DC Curtain System with the sealed keder curtain and matching roll tube for easy installation and trouble-free operation.



## MANUAL OR MOTORIZED 24 VOLT DC CURTAIN SYSTEM

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### PVC COATED WIRE MESH

Choose, 12-gauge welded 2"x 2" PVC Coated Wire Mesh or 20-gauge 1" hex-shaped woven PVC Coated Bird Wire Mesh

PAGE  
118



### SHADE CLOTH

Woven poly shade cloth in nine different shade percentages with a variety of finishing options.

# Manual or Motorized 24 Volt DC Curtain System

J&D Manufacturing's DC Curtain System offers easy installation and trouble-free operation. With the sealed keder curtain and matching roll tube, the J&D Curtain System can be installed in a fraction of the time compared to conventional curtain systems.

## Curtain System

- End drive or center drive systems
- Single, two, or three-tier – bottom or middle roll
- Fully adjustable for minimum winter ventilation or maximum summer ventilation
- Curtain is wound tightly around the roll tube extending the life of your curtain, and eliminating the collection of debris and habitat for rodents
- 12oz clear polyethylene curtain has 20% more tensile and tearing strength than 10oz curtain
- Unique design allows GREATER light penetration than competitive curtains
- Heat sealed curtain keder prevents tearing and fraying
- Keder slides easily into the roll tube for quick installation



## Drive Options

- Manual drive with optional shepherd's hook
- Motorized climbing drives with built-in adjustable limit switches and optional protective cable guide
- **2 Year Warranty** on motors



## Control Options

- Manual control with power supply
- Programmable control with thermostat, temperature sensor, and power supply
- Auxiliary multi-stage ventilation control

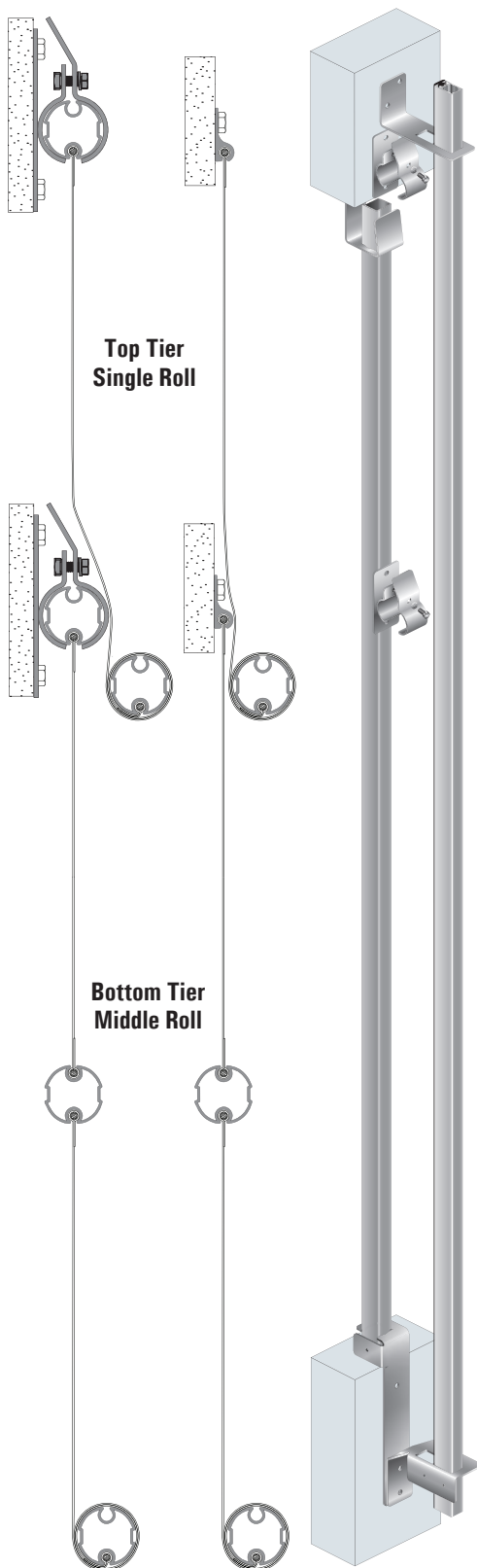
## Wind Pockets and Restraints

- Heavy gauge galvanized wind pockets to protect your drive system
- Easy access service door
- Optional wind pocket back panels
- Exterior and interior wind pipe and strap options:
  - Galvanized steel round wind pipe
  - Galvanized steel square wind pipe
  - Aluminum rectangular wind pipe with protective rubber cushion



**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

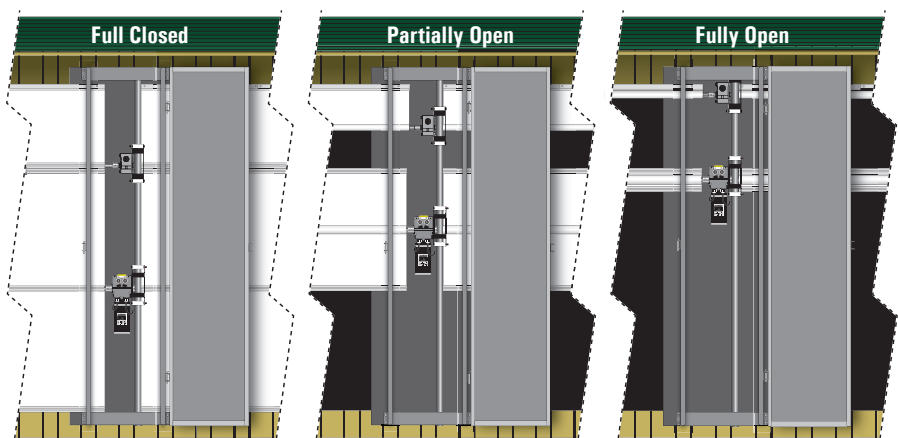
# Manual or Motorized 24 Volt DC Curtain System



## Common Curtain Arrangements

End Drive (maximum length 300' *)		Center Drive (maximum length 150' * each side)	
End Drive	Single-Tier Bottom Roll	Single-Tier Bottom Roll	Single-Tier Bottom Roll
	Single-Tier Middle Roll*	Single-Tier Middle Roll*	Single-Tier Middle Roll*
End Drive	Two-Tier Top Tier - Bottom Roll Bottom Tier - Bottom Roll	Two-Tier Top Tier - Bottom Roll Bottom Tier - Bottom Roll	Two-Tier Top Tier - Bottom Roll Bottom Tier - Bottom Roll
	Two-Tier Top Tier - Bottom Roll Bottom Tier - Middle Roll*	Two-Tier Top Tier - Bottom Roll Bottom Tier - Middle Roll*	Two-Tier Top Tier - Bottom Roll Bottom Tier - Middle Roll*
End Drive	Three-Tier Top Tier - Bottom Roll Middle Tier - Bottom Roll Bottom Tier - Bottom Roll	Three-Tier Top Tier - Bottom Roll Middle Tier - Bottom Roll Bottom Tier - Bottom Roll	Three-Tier Top Tier - Bottom Roll Middle Tier - Bottom Roll Bottom Tier - Bottom Roll
	Three-Tier Top Tier - Bottom Roll Middle Tier - Bottom Roll Bottom Tier - Middle Roll*	Three-Tier Top Tier - Bottom Roll Middle Tier - Bottom Roll Bottom Tier - Middle Roll*	Three-Tier Top Tier - Bottom Roll Middle Tier - Bottom Roll Bottom Tier - Middle Roll*

\* If Middle Roll exceeds 4' in height it's maximum length must be reduced



Shown: Two-Tier Center Drive, Top Tier - Manual Bottom Roll, Bottom Tier - Middle Roll

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# Curtain Material and Components

## Curtain Material

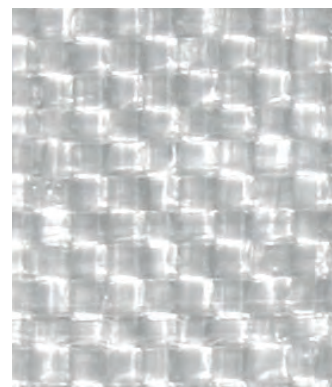
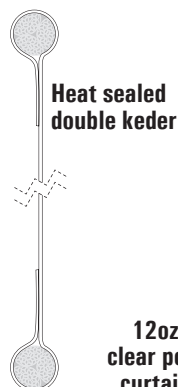
J&D Manufacturing's reinforced woven polyethylene curtain has a uniquely engineered coating for maximum durability and strength. Unlike sewn hems that can fray and unravel, J&D's curtain has a heat sealed keder that will not separate.

## Features

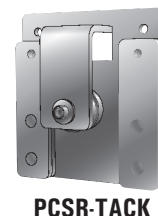
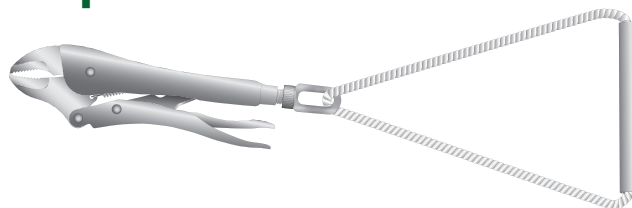
- 12oz clear polyethylene curtain with double stretching technology has 20% more tensile and tearing strength than 10oz curtain
- Unique design allows GREATER light penetration than competitive curtains
- Heat sealed curtain keder — not sewn or stitched — prevents tearing and fraying
- Double keder slides easily into the roll tube and tack strip for quick installation

Part#	Description	Finished Size
CPP1224DK	27½" Double Keder	24" *
CPP1236DK	36" Double Keder	32½"
CPP1248DK	48" Double Keder	44½"
CPP1260DK	60" Double Keder	56½"
CPP1272DK	72" Double Keder	68½"
CPP1284DK	84" Double Keder	80½"
CPP1296DK	96" Double Keder	92½"
CPP12108DK	108" Double Keder	104½"
CPP12120DK	120" Double Keder	116½"
CPP12132DK	132" Double Keder	128½"
CPP12144DK	144" Double Keder	140½"

\* Minimum size



## Curtain Installation Components



Part#	Description
<b>Curtain Roll Tube</b>	
PCSR600	Roll Tube, 50MM x 16' Long
PCSR605-P	Roll Tube Splice, w/Assembly Hardware*
PCSR605-PB	Roll Tube Splice, 20 per box, w/Assembly Hardware*
PCSR617	Mount, Curtain Roll Tube, S.S. w/Assembly Hardware*
<b>Curtain Tack Strip</b>	
PCSR616	Tack Strip, 16' Long for Curtain Systems

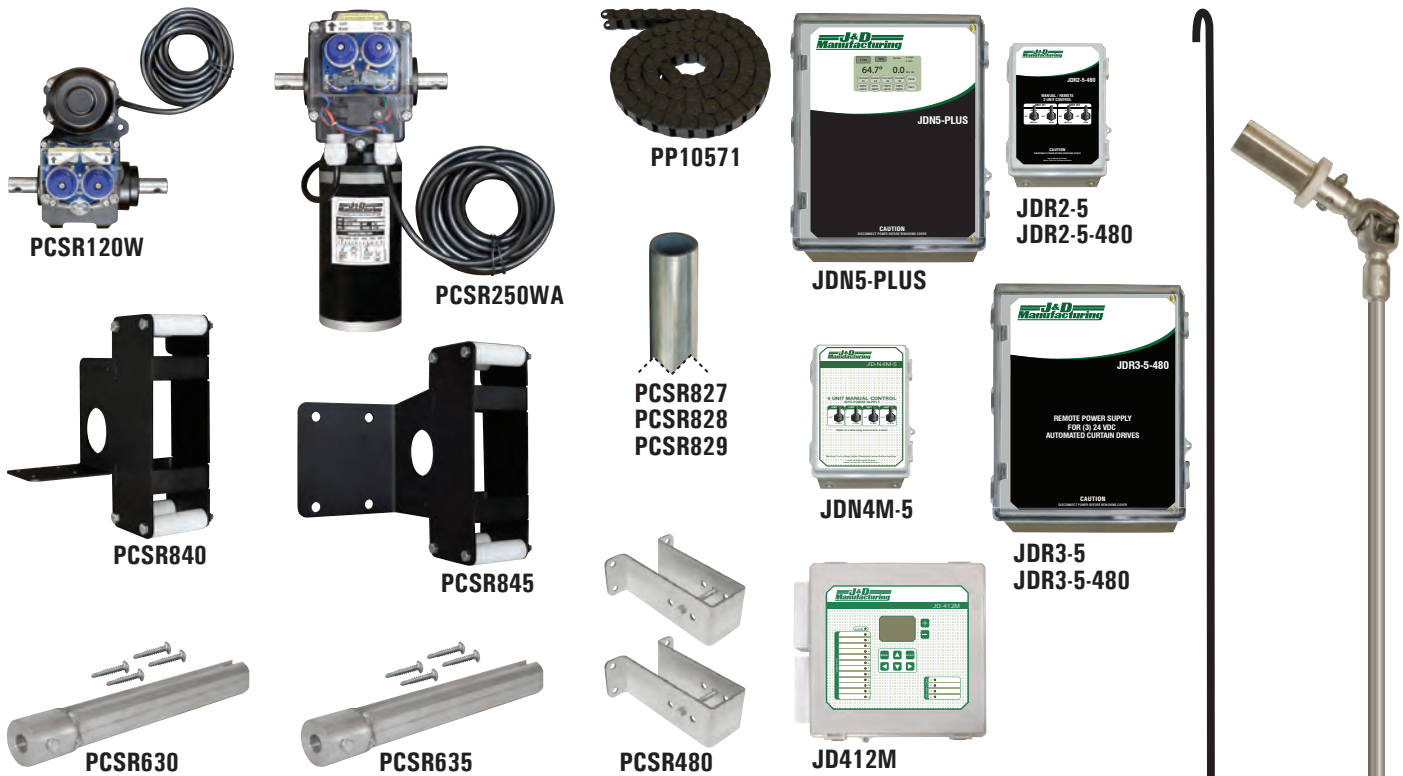
\* Includes assembly hardware only - installation hardware sold separately

## Installation Tools

Part#	Description
PCSR498	Stretching Tool, Curtain
PCSR-ROLL	Curtain Guide, Roll Tube
PCSR-TACK	Curtain Guide, Tack Strip

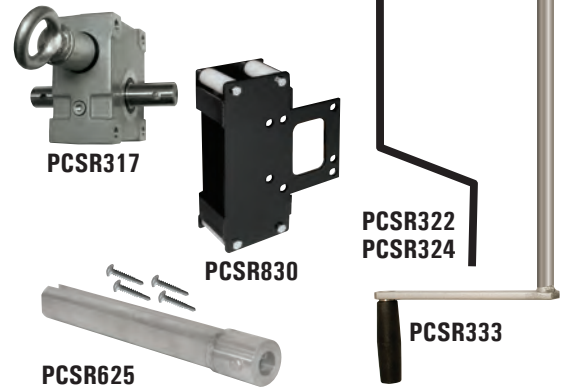
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# Curtain Drives & Components



## Motorized Drives & Components

Part#	Description
<b>Auto Drive</b>	
PCSR120W	Gear Box, DC, 2.7 RPM, 120 Watt, 7.5A, Double Shaft
PCSR250WA	Gear Box, DC, 3 RPM, 250 Watt, 15A, Double Shaft
PP10571	Cable Carrier, Black, Overall Length 5'
PCSR630	20.5MM Roll Tube Adapter for PCSR120W Motorized Drive
PCSR635	22.5MM Roll Tube Adapter for PCSR250W Motorized Drive
PCSR840	Climbing Bracket, PCSR120W Motorized Drive, w/Hardware
PCSR845	Climbing Bracket, PCSR250W Motorized Drive, w/Hardware
PCSR827	Climbing Pole, 1½", 10 Gauge, 14'
PCSR828	Climbing Pole, 1½", 10 Gauge, 16'
PCSR480	Mounting Brackets, for Climbing Pole, Set (2)
<b>Controls</b>	
JDN5-PLUS	Control, 5 Unit, Programmable, with 3' Temperature Probe
JDN4M-5	Control, Natural Ventilation, 4 Units, Manual
JD412M	Control, 4 Var, 12 On-Off Ventilation Stages, 1HP Boards
JDR2-5	Control, Manual and Remote for (2) 24 VDC Motors, 500W, 115/230V
JDR2-5-480	Control, Manual and Remote for (2) 24 VDC Motors, 500W, 480V
<b>Control Accessories</b>	
JDR3-5	Control, Remote Power Supply, (3) 24 VDC Motors, 500W, 115/230V
JDR3-5-480	Control, Remote Power Supply, (3) 24 VDC Motors, 500W, 480V
JDEX02	Expansion Module for JDN5-PLUS, adds (2) 0-10v zones
JDRPH-050	Humidity Sensor, Sintered Filter, 55' cord w/Disconnects Temperature
JD0024	Rain Sensor, (compatible with JDN4-5 only)
JD200410K	Sensor, with 1' Wire
JD200410K-10	Temperature Sensor, with 10' Wire
JD200410K-30	Temperature Sensor, with 30' Wire
JD200410K-75	Temperature Sensor, with 75' Wire



## Manual Drives & Components

Part#	Description
<b>Manual Drive</b>	
PCSR317	Curtain Drive, Manual, Dual Shaft
PCSR625	26MM Roll Tube Adapter Manual Curtain Drive
PCSR830	Climbing Bracket, Manual Drive, w/Hardware
PCSR827	Climbing Pole, 1½", 10 Gauge, 14'
PCSR828	Climbing Pole, 1½", 10 Gauge, 16'
PCSR829	Climbing Pole, 1½", 10 Gauge, 17'
PCSR480	Mounting Brackets, for Climbing Pole, Set (2)
<b>Manual Drive Accessories</b>	
PCSR322	Shepherds Hook Only, 6'
PCSR324	Shepherds Hook Only, 9'
<b>Other</b>	
PCSR333	Hand Crank, 6' with U-Joint & Adapter

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# Curtain Wind Restraint Systems

Shown is our most popular and recommended assembly.

- Interior 12-gauge square wind pipe with the PCSR617 curtain tube mounting bracket directly mounted, reducing the need for an additional cross member.
- Exterior wind pipe is our rectangular aluminum extrusion with rubber cushion, reducing noise and curtain wear.

## Features

### Rectangular Wind Pipe with Rubber Cushion

- Extruded aluminum 1"x1½" rectangular wind pipe with track for rubber cushion
- Rubber cushion reduces noise and prolongs curtain life by reducing wear
- 12', 14', and 16' lengths available

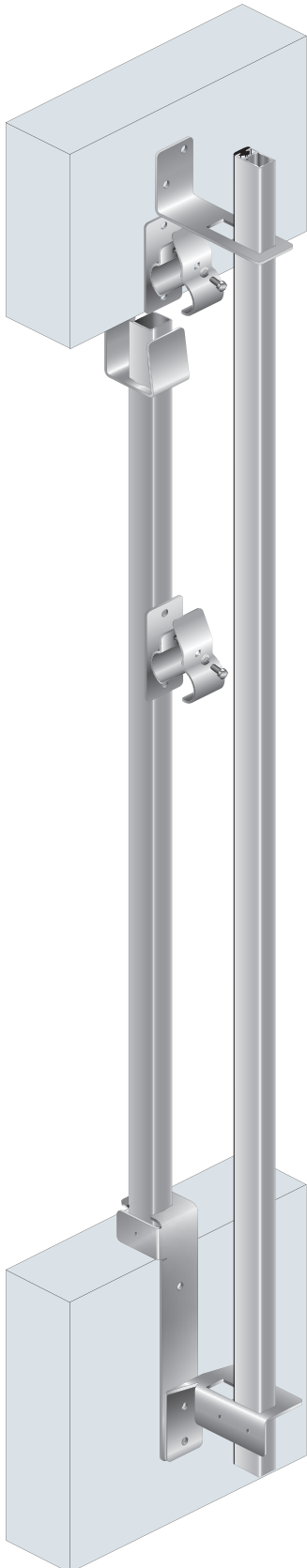
### Square Wind Pipe

- Heavy 12-gauge galvanized 1½" square pipe
- 14' and 16' lengths available
- When mounted as the interior wind pipe, the roll tube mounting brackets (*PCSR617*) may be directly attached - see figure

## System Structure

When calculating wind pipe needs, consider the following:

- J&D recommends wind pipe be placed on 6' centers. Building design and curtain dimensions may warrant alternative spacing
- Exterior wind pipe needs to be taller than the opening to accommodate mounting of curtain mounting brackets
- If you intend to attach the roll tube bracket directly to the interior wind pipe, the interior wind pipe must be heavy-duty 12-gauge square tube
- Mounting surface (wood, metal, or concrete) determines necessary installation hardware components



CURTAINS

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# Curtain Wind Restraint Systems

## 1½" Square Wind Pipe System

Part#	Description
<b>1½" Square Pipes</b>	
PCSR930	Wind Pipe, 1½" Square x 14', 12 Ga. Galv.
PCSR931	Wind Pipe, 1½" Square x 16', 12 Ga. Galv.
<b>1½" Square Mounting Brackets</b>	
PCSR910-P	Bracket, Universal, Wind Pipe with Bottom Support
PCSR940	Bracket, Outside Mount, Square/Round, 8 Ga. Galv.
PCSR942	Bracket, Inside Mount, Square/Round, 8 Ga. Galv.

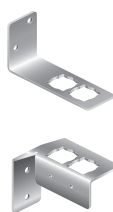
**PCSR930  
PCSR931**  
1½" Square  
Wind Pipe



**PCSR910-P  
(SET)**  
Outside Mount  
Universal  
Bracket



**PCSR940  
(SET)**  
Outside Mount  
Square/Round  
Bracket



**PCSR942  
(SET)**  
Inside Mount  
Square/Round  
Bracket



## Rectangle Wind Pipe with Rubber Cushion System

Part#	Description
<b>Pipes</b>	
PCSR917	Wind Pipe, 1" x 1½", Aluminum 12'
PCSR918	Wind Pipe, 1" x 1½", Aluminum 14'
PCSR919	Wind Pipe, 1" x 1½", Aluminum 16'
<b>Rubber Cushion</b>	
PP10381	Rubber Cushion, Alum Wind Pipe, Roll 100'
<b>Mounting Brackets</b>	
PCSR910-P	Bracket, Universal, Wind Pipe with Bottom Support
PCSR941	Bracket, Outside Mount, Rectangular
PCSR943	Bracket, Inside Mount, Rectangular

**PCSR917  
PCSR918  
PCSR919**  
Rectangular  
Wind Pipe



**PP10381**  
Rubber  
Cushion



**PCSR910-P  
(SET)**  
Outside Mount  
Universal  
Bracket



**PCSR941  
(SET)**  
Outside Mount  
Rectangular  
Bracket



**PCSR943  
(SET)**  
Inside Mount  
Rectangular  
Bracket



## 1.9 Round Wind Pipe System

Part#	Description
<b>Pipes</b>	
RPGT190011205	Wind Pipe, 1.9" Round x 205", 11 Ga. Galv.
RPGT190011288	Wind Pipe, 1.9" Round x 288", 11 Ga. Galv.
<b>Mounting Brackets</b>	
PCSR944	Bracket, Outside Mount, 1.9 Round
PCSR946	Bracket, Inside Mount, 1.9 Round

**RPGT190011205  
RPGT190011288**  
1.9" Round  
Wind Pipe



**PCSR944  
(SET)**  
Outside Mount  
Round Bracket



**PCSR946  
(SET)**  
Inside Mount  
Round Bracket



## Wind Strap System

Part#	Description
PCSR925	Webbing, 1½" Wide, 200 Yard Roll
PCSR927	Bracket, Top, for Curtain Wind Strap
PCSR929	Poly Strap Protector, for Curtain Wind Strap
PCSR935	Winch, Curtain Wind Strap

*Wind strap system requires top curtain be installed using roll tube and roll tube mounting brackets (PCSR617).*

**PCSR925**  
Webbing



**PCSR927**  
Top  
Bracket



**PCSR929**  
Protector



**PCSR935**  
Winch



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# Curtain Wind Pockets

## Features

### Wind Pocket Sets

- Heavy gauge galvanized drive pockets protect your drive system from the elements
- Hinge and latch system on drive wind pocket door for quick access
- Heavy gauge galvanized dead end covers to restrict side winds from lifting curtain
- End drive sets include 1 drive end cover and 1 dead end cover, center drive sets include 1 center drive cover and 2 dead end covers
- Wind pocket systems 13' and taller are spliced systems for ease of operation, installation, and maintenance

### Back Panel Sets - Optional

- Used to protect and secure ends of curtain to reduce drafts
- Provides a mounting surface for drive components
- Galvanized with rolled side edges for added strength and safety

### Wind Pocket Top Cover - Accessory

- Top of drive wind pocket must be sheltered to block out snow and rain. If building overhang does not provide adequate shelter a wind pocket top cover is required.

## Ordering

### When ordering wind pockets you will need to know:

- Is curtain system End Drive or Center Drive?
- What is the total width and height of the opening to be covered?
- Does structure provide required backer (*18" min. on dead ends and 29" min. for drive location*) or do you need to order corresponding back panel set?
- Will top of drive wind pocket be sufficiently covered by structure overhang to prevent rain and snow from entering or do you need to order a wind pocket top cover.
- What kind of installation hardware is required, wood, metal, or concrete? (Assembly hardware is included however due to range of building materials installation hardware must be ordered separate)



Center Drive Wind Pocket with Back Panel



Dead End Wind Pocket with Back Panel

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# Curtain Wind Pocket Sets

## End Drive Curtain Wind Pocket Sets

End Drive Wind Pockets Sets include:

- 1 Universal Right/Left Dead End Cover
- 1 Universal Right/Left End Drive Cover with Hinged Door/s
- Assembly Hardware

NOTE: Does not include installation hardware which must be ordered separately

Part#	Description	Max. Opening Height	Optional Back Panel Sets
PCSR975-4	4', End Drive Set	32"	PCSR974-4
PCSR975-5	5', End Drive Set	44"	PCSR974-5
PCSR975-6	6', End Drive Set	56"	PCSR974-6
PCSR975-7	7', End Drive Set	68"	PCSR974-7
PCSR975-8	8', End Drive Set	80"	PCSR974-8
PCSR975-9	9', End Drive Set	92"	PCSR974-9
PCSR975-10	10', End Drive Set	104"	PCSR974-10
PCSR975-11	11', End Drive Set	116"	PCSR974-11
PCSR975-12	12', End Drive Set	128"	PCSR974-12
PCSR975-13	13'*, End Drive Set	140"	PCSR974-13 *
PCSR975-14	14'*, End Drive Set	152"	PCSR974-14 *
PCSR975-15	15'*, End Drive Set	164"	PCSR974-15 *
PCSR975-16	16'*, End Drive Set	176"	PCSR974-16 *
PCSR975-18	18'*, End Drive Set	200"	PCSR974-18 *
<b>Accessory</b>			
PCSR978	Top Cover, for Wind Pocket		



\*Indicates spliced systems for ease of operation, installation, and maintenance.  
 Spliced sets are broken down as follows 13'(9'+4'), 14'(10'+4'), 15'(10'+5'), 16'(10'+6'), 18'(10'+8').

## Center Drive Curtain Wind Pocket Sets

Center Drive Wind Pockets Sets include

- 2 Universal Right/Left Dead End Cover
- 1 Center Drive Cover with Hinged Door/s
- Assembly Hardware

NOTE: Does not include installation hardware which must be ordered separately

Part#	Description	Max. Opening Height	Optional Back Panel Sets
PCSR976-4	4', Center Drive Set	32"	PCSR977-4
PCSR976-5	5', Center Drive Set	44"	PCSR977-5
PCSR976-6	6', Center Drive Set	56"	PCSR977-6
PCSR976-7	7', Center Drive Set	68"	PCSR977-7
PCSR976-8	8', Center Drive Set	80"	PCSR977-8
PCSR976-9	9', Center Drive Set	92"	PCSR977-9
PCSR976-10	10', Center Drive Set	104"	PCSR977-10
PCSR976-11	11', Center Drive Set	116"	PCSR977-11
PCSR976-12	12', Center Drive Set	128"	PCSR977-12
PCSR976-13	13'*, Center Drive Set	140"	PCSR977-13 *
PCSR976-14	14'*, Center Drive Set	152"	PCSR977-14 *
PCSR976-15	15'*, Center Drive Set	164"	PCSR977-15 *
PCSR976-16	16'*, Center Drive Set	176"	PCSR977-16 *
PCSR976-18	18'*, Center Drive Set	200"	PCSR977-18 *
<b>Accessory</b>			
PCSR978	Top Cover, for Wind Pocket		



\*Indicates spliced systems for ease of operation, installation, and maintenance.  
 Spliced sets are broken down as follows 13'(9'+4'), 14'(10'+4'), 15'(10'+5'), 16'(10'+6'), 18'(10'+8').

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# Replacement Curtain with Keder

J&D Manufacturing's reinforced woven polyethylene curtain has a uniquely engineered coating for maximum durability and strength. Unlike sewn-on Keder, that can fray and unravel, J&D's curtain's Keder is heat sealed and will not separate.

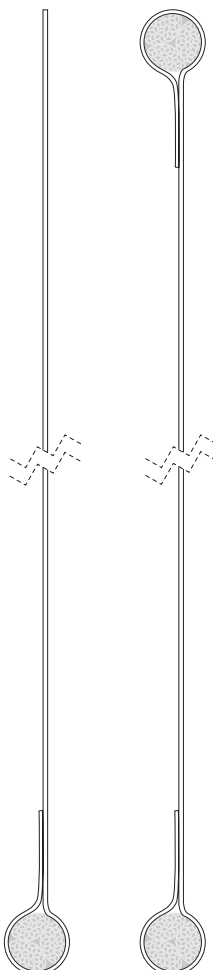
## Features

- 12oz clear polyethylene curtain with double stretching technology
- Unique design allows GREATER light penetration than competitive curtains
- Heat sealed curtain Keder
  - not sewn or stitched
  - fray-free finish
- 20% more tensile and tearing strength than previous 10oz curtain
- Keder slides easily into keder rails, roll tubes, tack strips, etc.



## Single Keder Curtain

Part#	Description	Finished Size
CPP1224K	24" Single Keder	22"
CPP1236K	36" Single Keder	34"
CPP1248K	48" Single Keder	46"
CPP1260K	60" Single Keder	58"
CPP1272K	72" Single Keder	70"
CPP1284K	84" Single Keder	82"
CPP1296K	96" Single Keder	94"
CPP12108K	108" Single Keder	106"
CPP12120K	120" Single Keder	118"
CPP12132K	132" Single Keder	130"
CPP12144K	144" Single Keder	142"



## Double Keder Curtain

Part#	Description	Finished Size
CPP1224DK	27½" Double Keder	24" *
CPP1236DK	36" Double Keder	32½"
CPP1248DK	48" Double Keder	44½"
CPP1260DK	60" Double Keder	56½"
CPP1272DK	72" Double Keder	68½"
CPP1284DK	84" Double Keder	80½"
CPP1296DK	96" Double Keder	92½"
CPP12108DK	108" Double Keder	104½"
CPP12120DK	120" Double Keder	116½"
CPP12132DK	132" Double Keder	128½"
CPP12144DK	144" Double Keder	140½"

\* Minimum size



12oz  
clear poly  
curtain

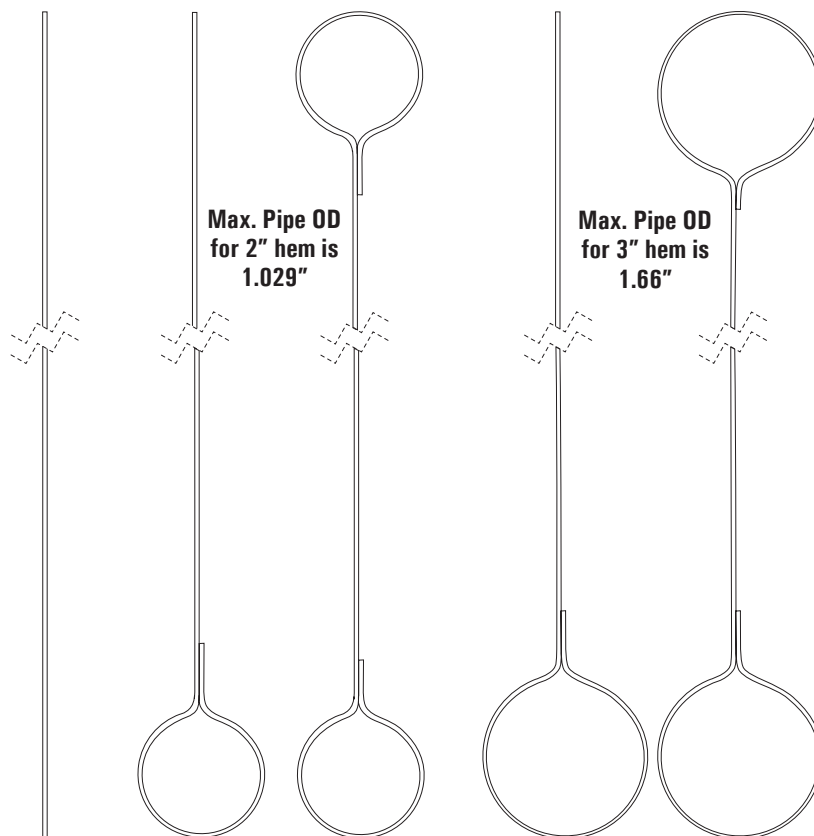
# Replacement Curtain

**Improve the performance of your current curtain system with superior curtain material.**

Replace your old, thin, worn-out, tattered, and torn curtain with J&D Manufacturing's superior reinforced woven polyethylene curtain material with its uniquely engineered coating for maximum durability and strength.



12oz  
clear poly  
curtain



## Features

- Available right off the roll or with 2" or 3" single or double hems
- 12oz clear polyethylene curtain with double stretching technology
- Unique design allows GREATER light penetration than competitive curtains
- Heat sealed hem
  - not sewn or stitched
  - fray-free finish
- 20% more tensile and tearing strength than 10oz curtain

## No Hem Curtain

Part#	Description
CPP1236N	36" No Hem
CPP1248N	48" No Hem
CPP1260N	60" No Hem
CPP1272N	72" No Hem
CPP1284N	84" No Hem
CPP1296N	96" No Hem
CPP12108N	108" No Hem
CPP12120N	120" No Hem
CPP12132N	132" No Hem
CPP12144N	144" No Hem

## 2" Medium Hem Curtain

Part#	Description	Finished Size
<b>Single 2" Hem</b>		
CPP1236S2	36" Medium 2" Single Hem	32½"
CPP1248S2	48" Medium 2" Single Hem	44½"
CPP1260S2	60" Medium 2" Single Hem	56½"
CPP1272S2	72" Medium 2" Single Hem	68½"
CPP1284S2	84" Medium 2" Single Hem	80½"
CPP1296S2	96" Medium 2" Single Hem	92½"
CPP12108S2	108" Medium 2" Single Hem	104½"
CPP12120S2	120" Medium 2" Single Hem	116½"
CPP12132S2	132" Medium 2" Single Hem	128½"
CPP12144S2	144" Medium 2" Single Hem	140½"
<b>Double 2" Hem</b>		
CPP1236D2	36" Medium 2" Double Hem	29"
CPP1248D2	48" Medium 2" Double Hem	41"
CPP1260D2	60" Medium 2" Double Hem	53"
CPP1272D2	72" Medium 2" Double Hem	65"
CPP1284D2	84" Medium 2" Double Hem	77"
CPP1296D2	96" Medium 2" Double Hem	89"
CPP12108D2	108" Medium 2" Double Hem	101"
CPP12120D2	120" Medium 2" Double Hem	113"
CPP12132D2	132" Medium 2" Double Hem	125"
CPP12144D2	144" Medium 2" Double Hem	137"

## 3" Large Hem Curtain

Part#	Description	Finished Size
<b>Single 3" Hem</b>		
CPP1236S3	36" Large 3" Single Hem	31"
CPP1248S3	48" Large 3" Single Hem	43"
CPP1260S3	60" Large 3" Single Hem	55"
CPP1272S3	72" Large 3" Single Hem	67"
CPP1284S3	84" Large 3" Single Hem	79"
CPP1296S3	96" Large 3" Single Hem	91"
CPP12108S3	108" Large 3" Single Hem	103"
CPP12120S3	120" Large 3" Single Hem	115"
CPP12132S3	132" Large 3" Single Hem	127"
CPP12144S3	144" Large 3" Single Hem	139"
<b>Double 3" Hem</b>		
CPP1236D3	36" Medium 3" Double Hem	26"
CPP1248D3	48" Medium 3" Double Hem	38"
CPP1260D3	60" Medium 3" Double Hem	50"
CPP1272D3	72" Medium 3" Double Hem	62"
CPP1284D3	84" Medium 3" Double Hem	74"
CPP1296D3	96" Medium 3" Double Hem	86"
CPP12108D3	108" Medium 3" Double Hem	98"
CPP12120D3	120" Medium 3" Double Hem	110"
CPP12132D3	132" Medium 3" Double Hem	122"
CPP12144D3	144" Medium 3" Double Hem	134"

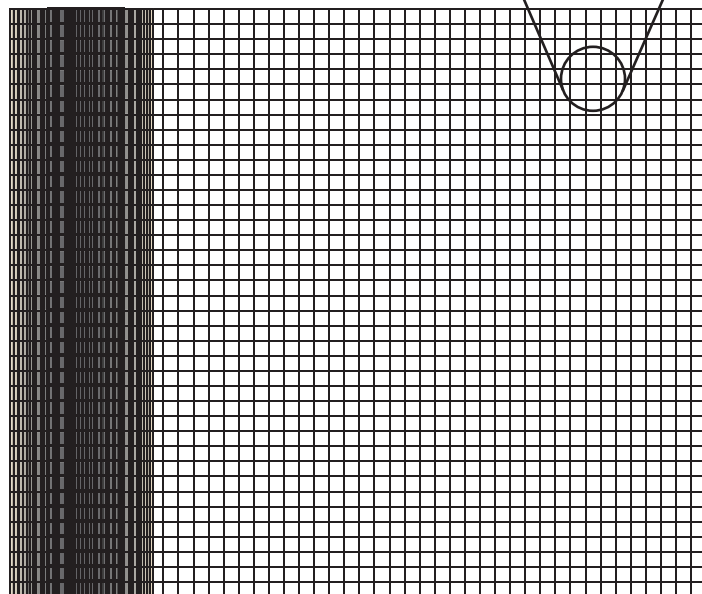
# PVC Coated Wire Mesh

J&D's 2"x 2" PVC Coated Wire Mesh is stronger and more capable of maintaining its shape compared to other forms of woven mesh. Each 12-gauge wire strand intersection is welded together for superior strength, then PVC coated for corrosion resistance. Use it anywhere you need a barrier! Great for dairy barns with curtain systems – place it partially up the wall to keep animals from getting at the curtain and tearing it.

## Features

- Standard 100' rolls
- Available in 60" or 72" widths
- 2" square openings
- Constructed of 12-gauge galvanized wire
- Wire welded at each intersection
- Black PVC-coated to reduce corrosion and ease cleaning

Part#	Description
PN6010022PVC	60" Wire Mesh, 2"x2" Square, PVC Coated, 100' Roll
PN7210022PVC	72" Wire Mesh, 2"x2" Square, PVC Coated, 100' Roll



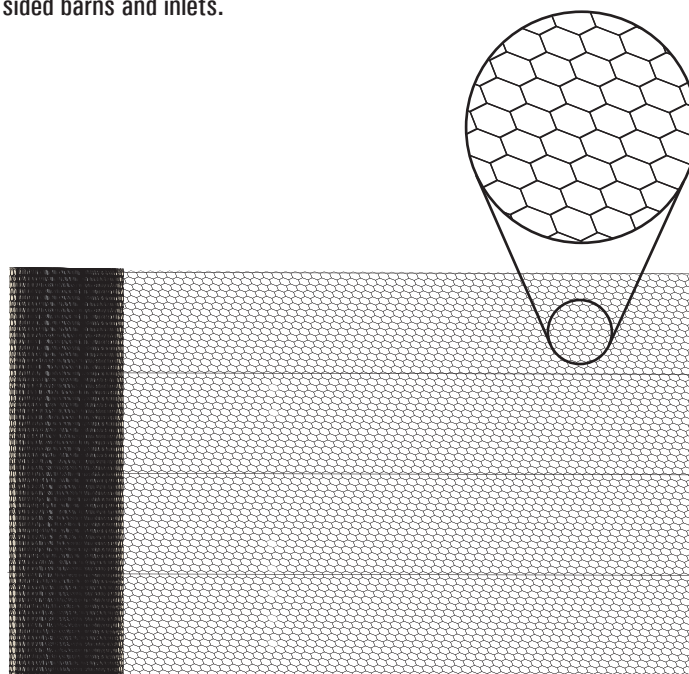
# PVC Coated Bird Wire Mesh

This woven wire netting is strong yet lightweight and flexible. Its 1" hex-shaped openings are a great barrier that allows for easy air exchange. Perfect for open sided barns and inlets.

## Features

- Standard 150' rolls
- Available in 12", 18", 24", 36", 48", 60", or 72" widths
- 1" hex-shaped openings
- Constructed of 20-gauge wire
- Black PVC coated to reduce corrosion and ease of cleaning
- 24" and larger are reinforced with horizontal wires for strength

Part #	Descriptions
PN12150	Bird Wire Mesh, 1" Hex, 12" x 150', PVC Coated
PN18150	Bird Wire Mesh, 1" Hex, 18" x 150', PVC Coated
PN24150	Bird Wire Mesh, 1" Hex, 24" x 150', PVC Coated
PN36150	Bird Wire Mesh, 1" Hex, 36" x 150', PVC Coated
PN48150	Bird Wire Mesh, 1" Hex, 48" x 150', PVC Coated
PN60150	Bird Wire Mesh, 1" Hex, 60" x 150', PVC Coated
PN72150	Bird Wire Mesh, 1" Hex, 72" x 150', PVC Coated





# Shade Cloth

Woven poly shade cloth is now available in eight different shade percentages with a variety of finishing options. Shade cloth is an excellent choice for open sidewall barns to introduce additional shade.

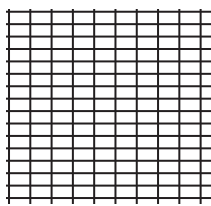
## Features

- Heavier and more durable than knitted shade cloth
- UV stabilized for the most extreme solar conditions
- 9 shade percentages to choose from: 30, 47, 55, 63, 73, 78<sup>‡</sup>, 80, 95, 100%
- Edge finishing options include grommets and pocket hems to fit any installation
- Standard reinforced taped edge is double stitched. All other edges use extra wide reinforced taped edge with durable double row stitching.
- Provides additional cooling by introducing shade to open sidewall barns
- Helps to reduce UV-penetration
- Reduces dust particles and damage from wind and hail
- Protects vegetables and plants from sun scorch
- Deters birds and insects
- Rot and mildew resistant
- Water permeable for rain, sprinklers and irrigation systems

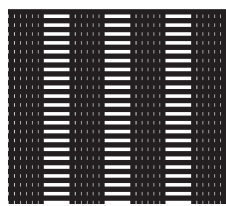
See *Curtain System* section for the complete line of accessory items.



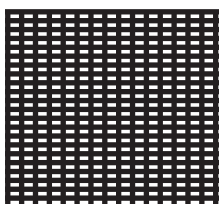
30% Shade



‡78% Lath Shade



80% Shade

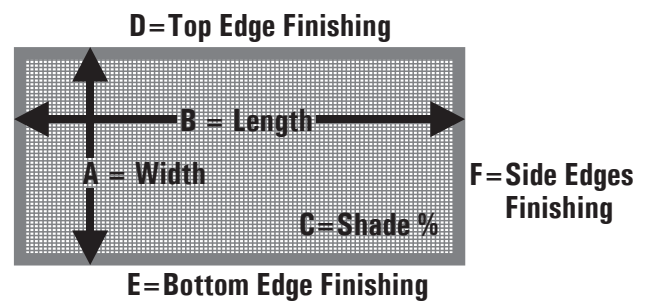


<sup>‡</sup> Lath shade cloth features alternating bands of dense 100% shade cloth with open bands that let air pass through for an overall shading factor of 78% yet is generally cooler than comparable densities.

## How to Order:

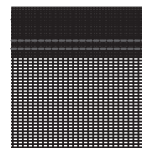
- A = Finished Size Width:  — 6', 10', 12' or 15'
- B = Finished Size Length:  — Per foot increment
- C = Shade Percentage:  — 30, 47, 55, 63, 73, 78<sup>‡</sup>, 80, 95, 100%
- D = Top Edge Finish:
- E = Bottom Edge Finish:
- F = Side Edges Finish:
- Select a 3 character code from the Edge Finishing Options box below

Every shade cloth is custom made to order - once order has been placed it is non-cancelable and non-returnable.



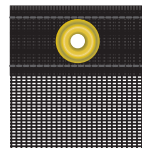
## Edge Finishing Options:

- STE = Standard tape edge with double stitch hem
- G22 = #2 grommet (5/16" hole) with 2' spacing
- G24 = #2 grommet (5/16" hole) with 4' spacing
- PH3 = 3" pocket hem (subtracts 3" from overall width)
- PH4 = 4" pocket hem (subtracts 4" from overall width)



### Standard Tape Edge

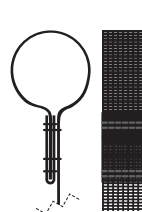
Double stitched standard reinforced tape edge



### Grommet Edge

Double stitched extra wide reinforced tape edge and #2 grommets (5/16" hole)

Choose 2' or 4' grommet spacing



3" Pocket

(max pipe OD = 1.029")



4" Pocket

(max pipe OD = 1.660")

### Pocket Hem Edge

Extra wide, double stitched reinforced tape edge is folded over and double stitched again to create a pocket hem

## Properly sizing inlets for your barn

Barn inlets play a crucial role in maintaining a healthy and comfortable environment for livestock in agricultural facilities. In this article, we will explore the importance of barn inlets, their purpose, the proper sizing considerations, and the ideal placement locations within a barn. Understanding these aspects will help farmers optimize ventilation and create an optimal living space for their animals.

Properly sizing barn inlets are crucial to ensure efficient airflow and ventilation. Consider the following factors when determining the appropriate size:

### Animal Requirements:

The size of inlets should align with the specific needs of the livestock being housed. Factors such as animal size, density, and species-specific ventilation requirements should be considered. Guidelines provided by agricultural extension services or ventilation experts can assist in determining the appropriate inlet size based on the number and type of animals.

### Building Design:

The design and dimensions of the barn influence the inlet sizing. Factors such as barn length, width, height, and the presence of other ventilation components, like exhaust fans and circulation fans, should be taken into account. Calculations based on the building's volume and the desired air exchange rate help determine the proper inlet size.

## Barn Inlet Placement

### Sidewall Inlets:

Sidewall inlets are placed on the exterior walls of the barn to allow air to be pulled in by suction created by exhaust fans. Winter and mild weather inlets should be positioned to direct the incoming air to mix with warmer air that rises to the ceiling or roof-line, allowing fresh air to mix with warmer air before entering the animal living area. Placing inlets along the sidewalls ensures uniform air distribution and minimizes drafts on the animals.

### Ceiling Inlets:

Ceiling inlets are another option, particularly in buildings wider than sidewall inlets can cover for proper distribution. Ceiling inlets are placed evenly throughout the room in accordance to the airflow capacity and type. One-way, two-way, or four-way inlets distribute air along the ceiling, creating a gentle, indirect flow of tempered air that has mixed with warmer air inside the room. Ceiling inlets are beneficial for minimizing drafts and providing a more consistent air supply throughout the barn.

### Tunnel and cross vent inlets:

Tunnel or cross vent inlets are designed and sized for maximum air intake often with the goal of creating airspeeds that create a wind chill effect. Tunnel and cross vent inlets are typically adjusted automatically with the ventilation control for airspeed and volume. Like sidewall and ceiling inlets, tunnel and cross vent inlets allow fresh air to remove humidity, gases, dust, and other contaminants but also heat from animals and the building.

## Inlet Density and Distribution

Regardless of the inlet placement, it is important to distribute them evenly along the barn length to ensure uniform airflow. Spacing between inlets should be determined based on animal requirements, barn design, and the desired ventilation goals. This prevents dead zones and optimizes air exchange.

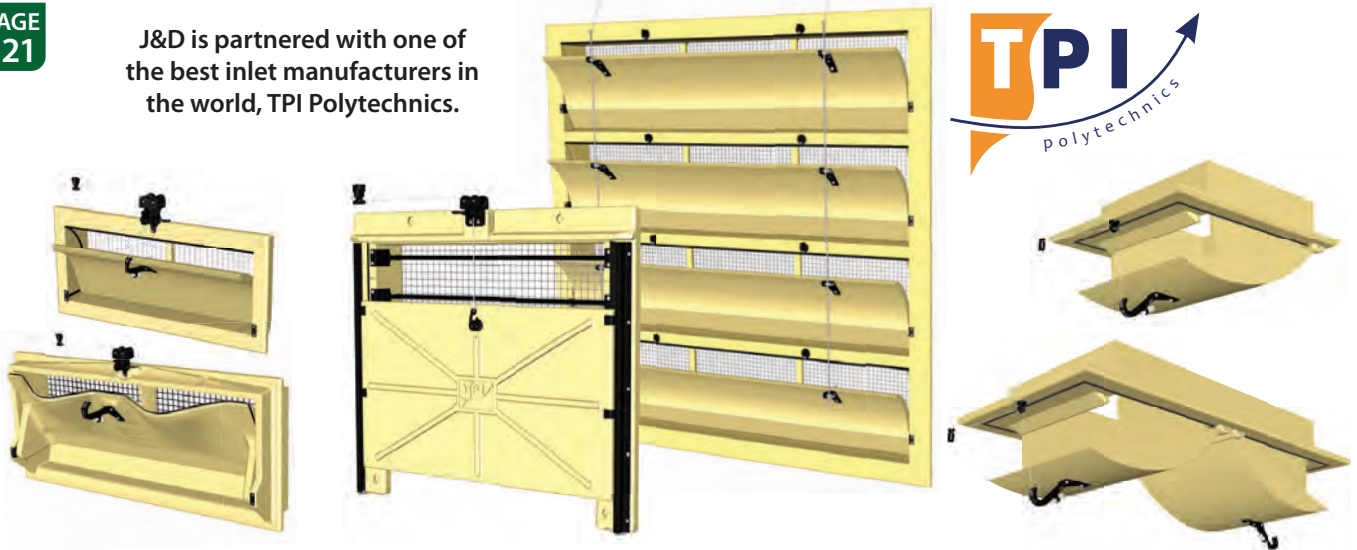
Barn inlets are essential components of a well-designed ventilation system for livestock facilities. By allowing fresh air intake, regulating temperature, and maintaining air quality, inlets contribute to the overall health, comfort, and productivity of the animals. Proper sizing and strategic placement of inlets based on animal needs and barn design are key factors in ensuring efficient ventilation. Farmers should consult with the ventilation experts at J&D Manufacturing or agricultural extension services like Dairyland Initiative or the Department of Poultry Science at UGA for specific guidelines tailored to their livestock and facility requirements.

# WE PUT THE INLET IN VENTILATION

Inlets are an essential part of your complete ventilation system. They allow fresh air to enter the barn or building, where it is then properly mixed, circulated, and exhausted. A well-designed ventilation system strategically sizes and places inlets and is arguably more important than the fans themselves. J&D manufactures a line of ceiling and wall inlets to meet your needs and we're thrilled to announce our partnership with TPI-Polytechnics. TPI has been a global leader in inlet quality and design for over 25 years. J&D is excited to be able to add these top-of-the-line inlets to our product line.

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121

J&D is partnered with one of the best inlet manufacturers in the world, TPI Polytechnics.



## TPI WALL AND CEILING INLETS

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131



### INTAKE POWER SHUTTER WITH LIGHT TRAP

Provides a controlled inlet for the outside air to enter your building while maintaining your controlled lighting needs.

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136



### GREEN MACHINE FOR ALL YOUR DOOR, INLET, & CURTAIN NEEDS

You'll enjoy the minimal maintenance, multiple mounting options, pull strength, and the warranty that comes with J&D's GREEN MACHINE.



# TPI Insulated Wall Inlets



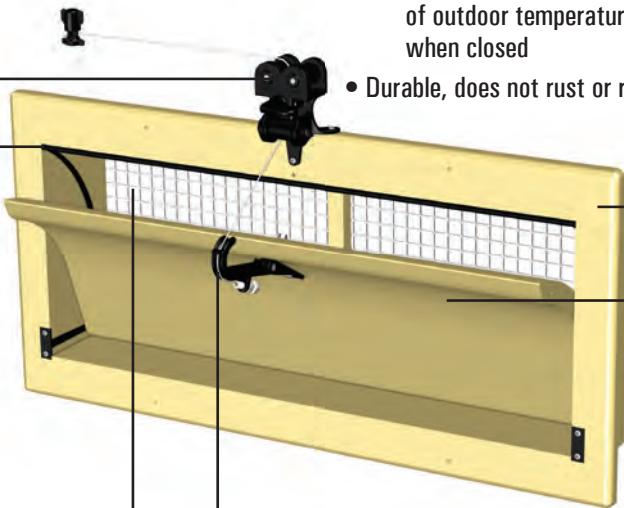
J&D is partnered with one of the best inlet manufacturers in the world, TPI Polytechnics.

## Pulley Unit with Integrated Latch

- Pulley Unit
  - Can guide cord in either direction
  - Top pulleys can act as a support to the main cable
  - Made out of strong and durable ABS plastic
- Latch
  - Lock inlets when needed

## Polyurethane Foam Frame & Louvers

- Very lightweight
  - Easy installation
  - Reduced transportation cost
- Unique formula provides smooth and strong outer skin
- Insulating
  - Minimizes formation of condensation on the inlet
  - Its low temperature transference minimizes the effects of outdoor temperatures when closed
- Durable, does not rust or rot



## Mesh

- Corrosion-resistant galvanized wire
- 0.4" square openings

## Specially Designed Control Arm

- Protects the inlet doors from cord wear by extending the cord beyond the edge of the inlet door
- Moves the pressure point from the edge of the inlet door to a more centralized location on the inlet door for a more even distribution of force, creating an even engagement with the gasket when closed
- Includes tension adjusting nut to allow for minor adjustments

## Rubber/Q-Lon Gaskets

- Minimize air infiltration when inlet is closed

## Optional Accessories for Compatible TPI Wall Inlets



Poly Weather Hood



Quick Release Weather Hood Mounting Brackets



Weather Hood Light Trap with Bracket

## Air Guides

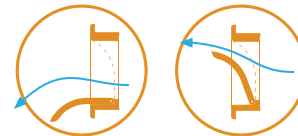


## Louvers

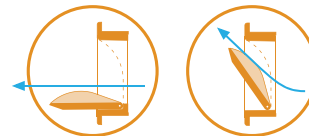
- Each model specifically designed to aim and project air differently to fit different ventilation needs
- Made from insulating polyurethane foam
- Smooth to minimize air resistance and for easy cleaning

## Uni-Directional Insulated Wall Air Inlets

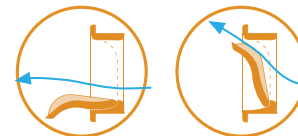
### TPI-3000-VFBG-C Air Inlet



### TPI-3000-VFBR-C Air Inlet

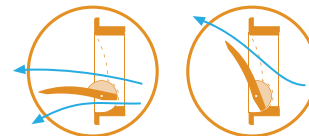


### TPI-Ventum Air Inlet

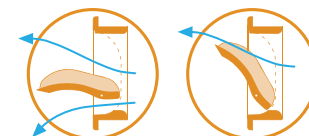


## Bi-Directional Insulated Wall Inlets

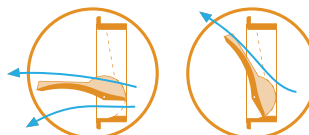
### TPI-1800-VFG-C Air Inlet



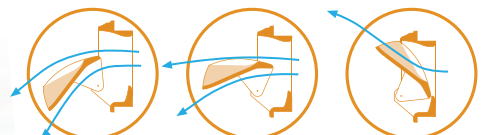
### TPI-3000-VFG-C Air Inlet



### TPI-4000-VFG-C Air Inlet



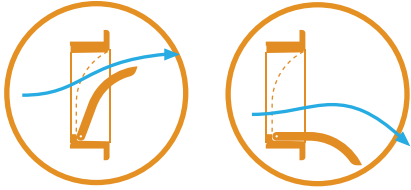
### TPI-Aeron Air Inlet



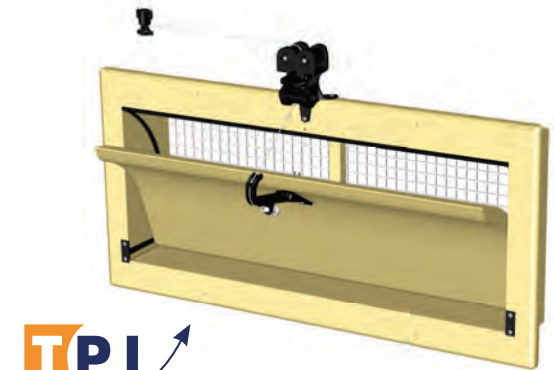
**WARNING:** This product can expose you to chemicals including methyl isocyanate, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# TPI Uni-Directional Insulated Wall Air Inlets

## TPI-3000-VFBG-C Air Inlet

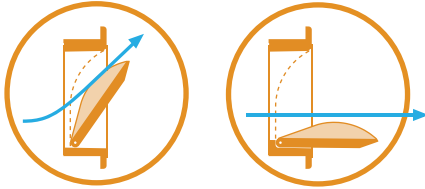


Part#	CFM @			m³/h			Force		Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa	Nw	Run	
TPI-3000-VFBG-C-Y	1,908	2,693	3,297	2,900	4,100	5,800	19.6	20.1"	Yellow
TPI-3000-VFBG-C-B	1,908	2,693	3,297	2,900	4,100	5,800	19.6	20.1"	Black
<b>Accessories</b>									
TPI-951	Weather Hood, Black, fits TPI-3000 Series of Wall Inlets								
TPI-902	Bracket Set, Quick Mount for TPI-951 Weather Hood								
TPI-918-TR	Light Trap, for TPI-951 Weather Hood								
TPI-793-C	Air Guides, for TPI-3000-* -C Series of Wall Inlets								

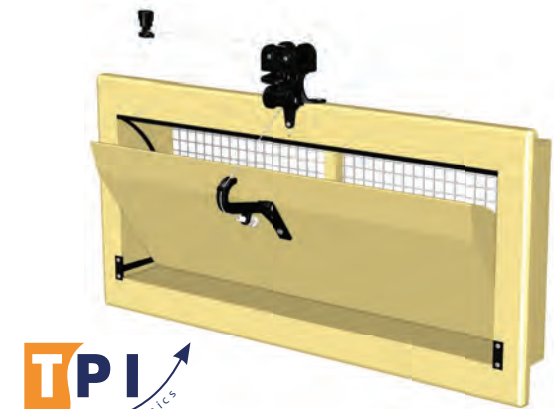


**Rough Opening**  
34.45" W x 15.55" H

## TPI-3000-VFBR-C Air Inlet

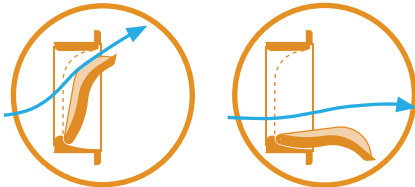


Part#	CFM @			m³/h			Force		Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa	Nw	Run	
TPI-3000-VFBR-C-Y	1,908	2,693	3,297	2,900	4,100	5,800	19.6	16.1"	Yellow
TPI-3000-VFBR-C-B	1,908	2,693	3,297	2,900	4,100	5,800	19.6	16.1"	Black
<b>Accessories</b>									
TPI-951	Weather Hood, Black, fits TPI-3000 Series of Wall Inlets								
TPI-902	Bracket Set, Quick Mount for TPI-951 Weather Hood								
TPI-918-TR	Light Trap, for TPI-951 Weather Hood								
TPI-793-C	Air Guides, for TPI-3000-* -C Series of Wall Inlets								

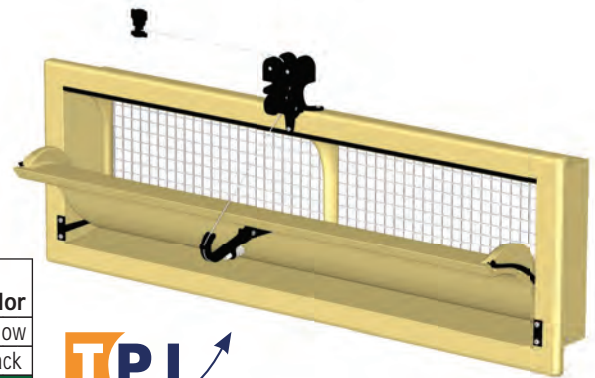


**Rough Opening**  
34.45" W x 15.55" H

## TPI-Ventum Air Inlet



Part#	CFM @			m³/h			Force		Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa	Nw	Run	
TPI-VENTUM-Y	2,290	3,218	3,950	3,480	3,480	6,950	29.4	18.5"	Yellow
TPI-VENTUM-B	2,290	3,218	3,950	3,480	3,480	6,950	29.4	18.5"	Black
<b>Accessories</b>									
TPI-955	Weather Hood, Black, fits TPI-VENTUM Series of Wall Inlets								
TPI-905	Bracket Set, Quick Mount for TPI-955 Weather Hood								
TPI-915-TR	Light Trap, for TPI-955 Weather Hood								
TPI-797	Air Guides, for TPI-VENTUM Series of Wall Inlets								



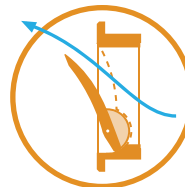
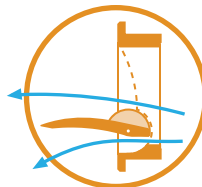
**Rough Opening**  
44.88" W x 13.78" H

**⚠ WARNING:** This product can expose you to chemicals including methyl isocyanate, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# TPI Bi-Directional Insulated Wall Inlets

When TPI's Bi-Directional Wall Inlet's louver is opened past a certain point, it allows incoming air to split. When the louver is fully open for maximum ventilation, the air below the louver is guided downwards towards the animals, providing additional cooling and fresh air at animal level.

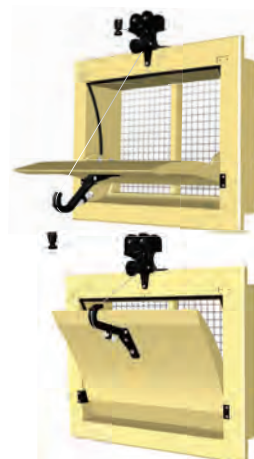
## TPI-1800-VFG-C Air Inlet



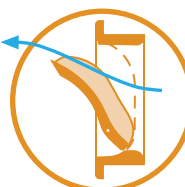
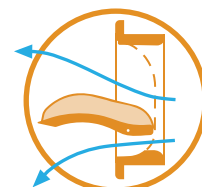
Part#	CFM @			m³/h			Force Nw	Run	Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa			
TPI-1800-VFG-C-Y	1,184	1,773	2,046	1,800	2,700	3,600	14.7	18.5"	Yellow
TPI-1800-VFG-C-B	1,184	1,773	2,046	1,800	2,700	3,600	14.7	18.5"	Black
<b>Accessories</b>									
TPI-954	Weather Hood, TPI-1800-VFG-C Series of Inlets								
TPI-904	Bracket Set, Quick Mount for TPI-954 Weather Hood								
TPI-916-TR	Light Trap, for TPI-954 Weather Hood								
TPI-791-C	Air Guides, for TPI-1800-VFG-C Series of Inlets								



**Rough Opening**  
21.85" W x 16.73" H



## TPI-3000-VFG-C Air Inlet



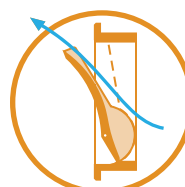
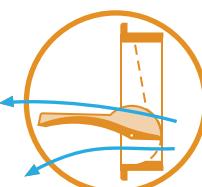
Part#	CFM @			m³/h			Force Nw	Run	Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa			
TPI-3000-VFG-C-Y	1,908	2,693	3,297	2,900	4,100	5,800	19.6	16.9"	Yellow
TPI-3000-VFG-C-B	1,908	2,693	3,297	2,900	4,100	5,800	19.6	16.9"	Black
<b>Accessories</b>									
TPI-951	Weather Hood, Black, fits TPI-3000 Series of Wall Inlets								
TPI-902	Bracket Set, Quick Mount for TPI-951 Weather Hood								
TPI-918-TR	Light Trap, for TPI-951 Weather Hood								
TPI-793-C	Air Guides, for TPI-3000-*C Series of Wall Inlets								



**Rough Opening**  
34.45" W x 15.55" H



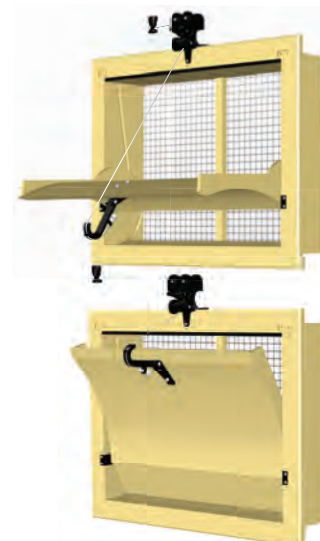
## TPI-4000-VFG-C Air Inlet



Part#	CFM @			m³/h			Force Nw	Run	Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa			
TPI-4000-VFG-C-Y	2,566	3,612	4,433	3,900	5,500	7,800	19.6	24.6"	Yellow
TPI-4000-VFG-C-B	2,566	3,612	4,433	3,900	5,500	7,800	19.6	24.6"	Black
<b>Accessories</b>									
TPI-952	Weather Hood, Black, fits TPI-4000 Series of Wall Inlets								
TPI-903	Bracket Set, Quick Mount for TPI-952 Weather Hood								
TPI-919-TR	Light Trap, for TPI-952 Weather Hood								
TPI-794-C	Air Guides, for TPI-4000-*C Series of Wall Inlets								



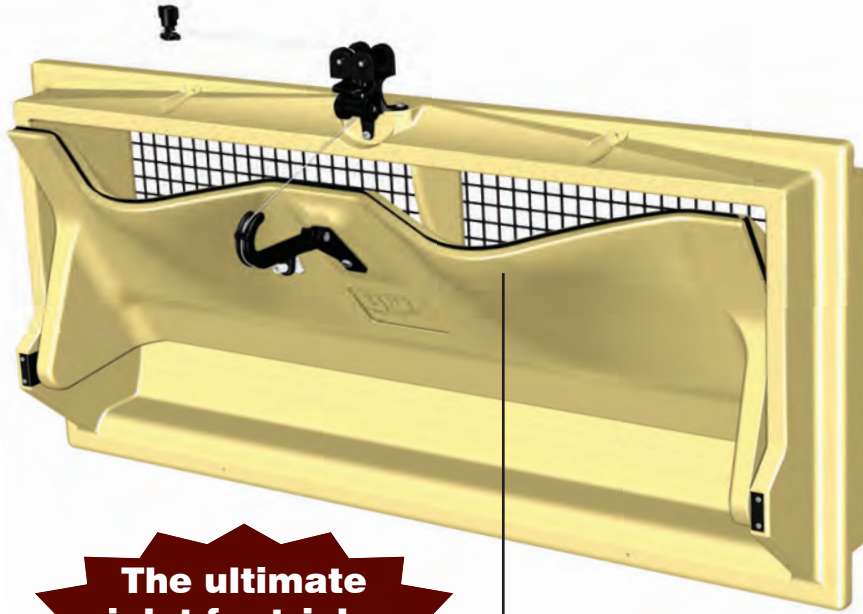
**Rough Opening**  
28.35" W x 22.44" H



**⚠ WARNING:** This product can expose you to chemicals including methyl isocyanate, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# TPI-Aeron Bi-Directional Insulated Wall Inlet



**The ultimate inlet for tricky winter ventilation**

TPI-Aeron Bi-Directional Wall Inlet's revolutionary shape and design provides the optimal combination of capacity and airflow, giving you precise directional control over the air throw. With two jets, air is bundled to attain more speed compared to curved or flat inner flaps.

This inlet offers unprecedented control over the full range of minimum, transition, and maximum ventilation.

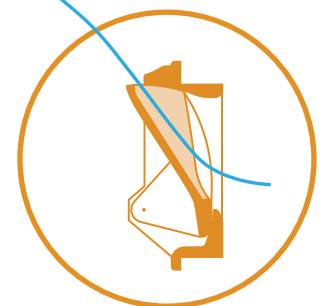
**Low Capacity  
High Accuracy  
Large Throw**

## Curved Louver

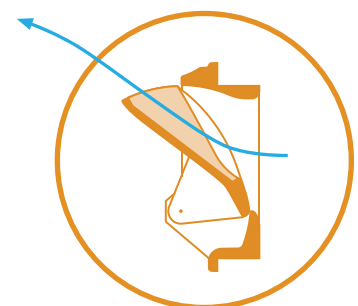
- Provides control over the air speed, direction, and volume in every ventilation stage

- At the Minimum capacity, of 8° opening 67m³/h ≈ 39 CFM, air jets created by the curved louver deliver fresh air far into the house
- Opening further to medium capacity, of 15° opening 195m³/h ≈ 115 CFM, air flows over the full width of the louver without air leakage on the sides and bottom
- Opening over 30%, the bottom section of the inlet opens splitting the air guiding some of the air downwards
- At the maximum capacity of 4400m³/h at 20Pa, this creates a chill effect that helps cool the animals

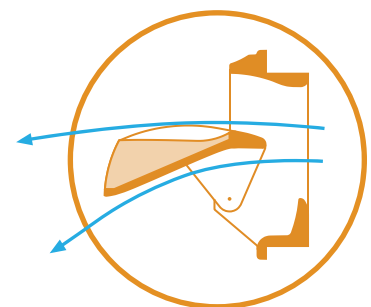
## Minimum



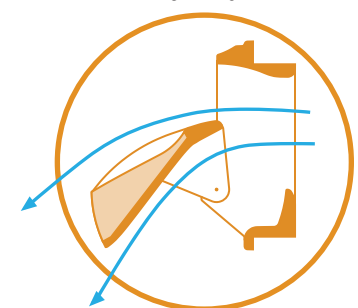
## Medium



## Over 30%



## Maximum



Part#	CFM @			m³/h			Force Nw	Run	Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa			
TPI-AERON-Y	2,040	2,890	3,552	3,100	4,400	6,200	44.0	21.7"	Yellow
TPI-AERON-B	2,040	2,890	3,552	3,100	4,400	6,200	44.0	21.7"	Black
<b>Accessories</b>									
TPI-955	Weather Hood, Black, fits TPI-AERON Series of Wall Inlets								
TPI-905	Bracket Set, Quick Mount for TPI-955 Weather Hood								
TPI-915-TR	Light Trap, for TPI-955 Weather Hood								



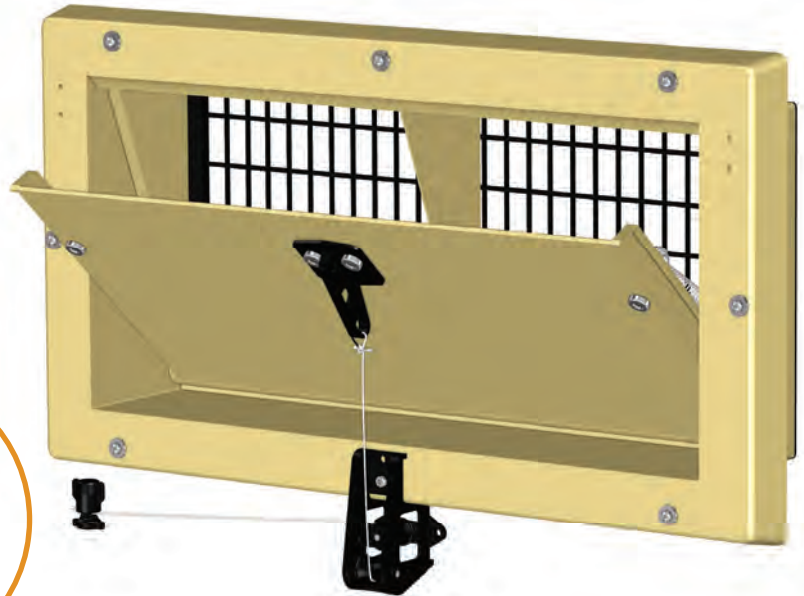
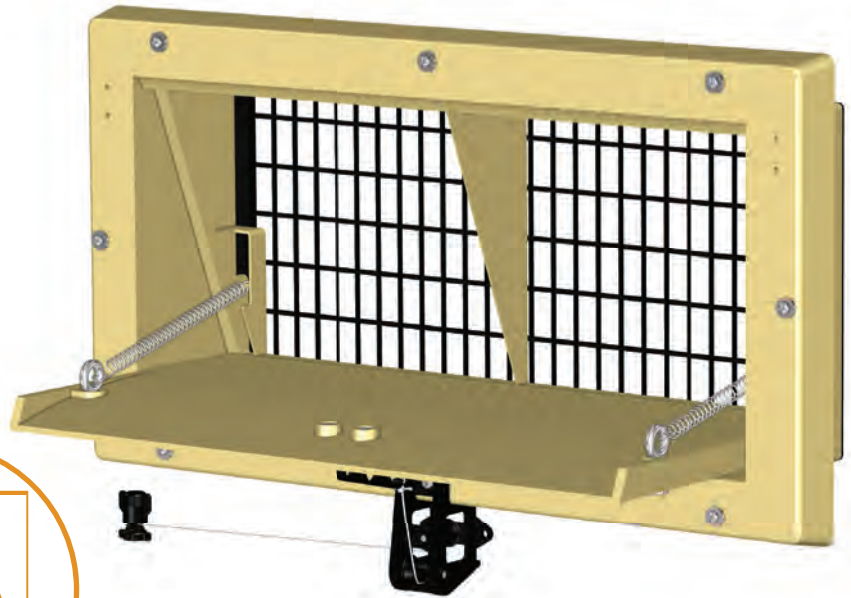
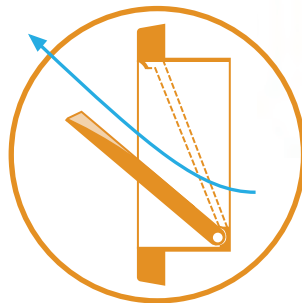
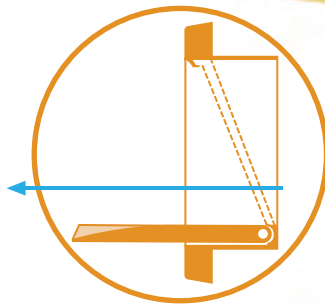
**Rough Opening**  
40.55" W x 16.93" H

**⚠ WARNING:** This product can expose you to chemicals including methyl isocyanate, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# TPI-2000-PBR-C-Y Wall Inlet

The TPI-2000-PBR-C-Y wall inlet is specially developed for areas where insulation is not needed.

- Straight louver guides air in a straight upwards or horizontal direction, never downwards on the animals where it's not wanted
- Uni-directional air inlet, so the air only travels above the louver
- Made out of UV-stabilized ABS
- Spring closed



Part#	CFM @			m <sup>3</sup> /h			Force Nw	Run	Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa			
TPI-2000-PBR-C-Y	1,184	1,642	2,046	1,800	2,500	3,600	88.3	7.9"	Yellow
<b>Accessories</b>									
TPI-950	Weather Hood, fits TPI-2000-PBR-C-Y Wall Inlet								
TPI-901	Bracket Set, Quick Mount for TPI-950 Weather Hood								
TPI-917-TR	Light Trap, for TPI-950 Weather Hood								
TPI-711	Air Guide, for TPI-2000-PBR-C-Y Wall Inlet								



**Rough Opening**  
26.77" W x 12.99" H

**⚠ WARNING:** This product can expose you to chemicals including methyl isocyanate, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

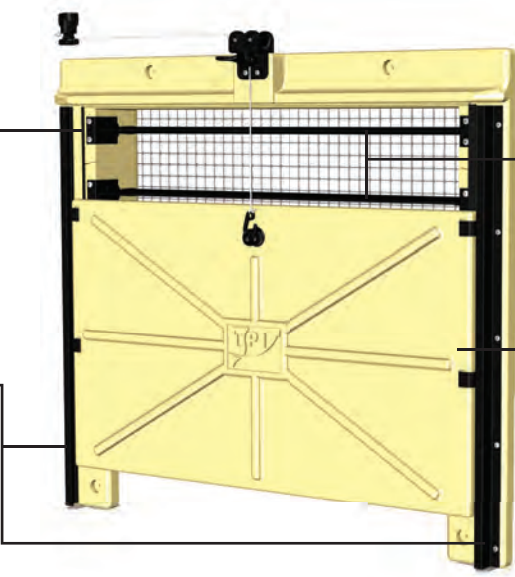
# TPI-Omniflux Insulated Air Inlet

**Seals**

- Resistant to wear, stretching, and shrinkage, even at low temperatures

**Guide System**

- Unique design prevents door from jamming and makes cleaning easier



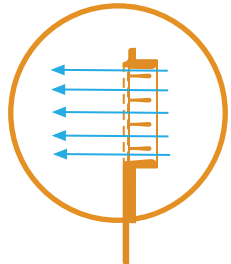
**Louvers**

- Four in total
- Independently movable
- Easily repositioned
- Direct airflow

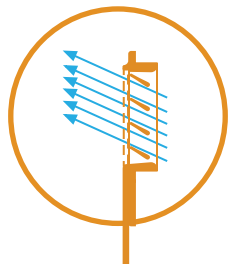
**Door**

- Smooth sliding
- Easily adjust opening size to control air
- Made from easy-to-clean polyurethane

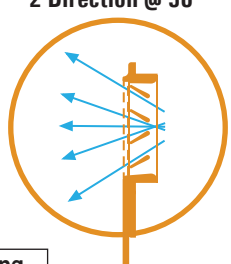
Horizontal



1 Direction @ 30°




2 Direction @ 30°



Part#	Louver Orientation	CFM @			m³/h			Force Nw	Run	Color
		.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa			
TPI-OMNIFLUX-Y	Horizontal	2,106	2,922	3,638	3,200	4,450	6,400	44.1	16.5"	Yellow
	1 Dir. @ 30°	1,481	2,102	2,529	2,250	3,200	4,450			
	2 Dir. @ 30°	1,415	1,970	2,472	2,150	3,000	4,350			
TPI-OMNIFLUX-B	Horizontal	2,106	2,922	3,638	3,200	4,450	6,400	44.1	16.5"	Black
	1 Dir. @ 30°	1,481	2,102	2,529	2,250	3,200	4,450			
	2 Dir. @ 30°	1,415	1,970	2,472	2,150	3,000	4,350			

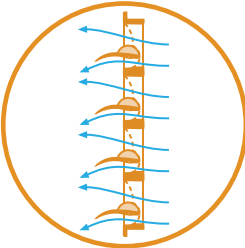
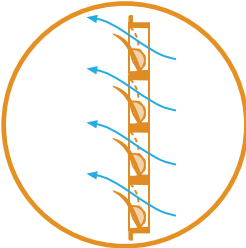
**Accessories**

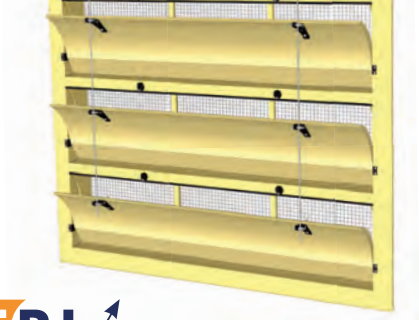
TPI-952	Weather Hood, Black, fits TPI-OMNIFLUX Series of Wall Inlets
TPI-903	Bracket Set, Quick Mount for TPI-952 Weather Hood
TPI-919-TR	Light Trap, for TPI-952 Weather Hood



**Rough Opening**  
30.71" W x 19.29" H

# TPI-6000-VFG-4-C Insulated Tunnel Unit







Part#	CFM @			m³/h			Force Nw	Run	Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa			
TPI-6000-VFG-4-C-Y	15,267	22,986	26,372	23,200	35,000	46,400	137.3	15.7"	Yellow
TPI-6000-VFG-4-C-B	15,267	22,986	26,372	23,200	35,000	46,400	137.3	15.7"	Black

**Accessories**

TPI-796-C	Air Guides, for TPI-6000-* -C Series of Wall Inlets
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**Rough Opening**  
59.84" W x 63.78" H

**⚠ WARNING:** This product can expose you to chemicals including methyl isocyanate, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# TPI Insulated Ceiling Inlets

## Polyurethane Foam Frame and Door/s

- Very lightweight
  - Easy installation
  - Reduced transportation cost
- Unique formula provides smooth and strong outer skin
- Insulating
  - Minimizes formation of condensation on the inlet
  - Its low temperature transference minimizes the effects of outdoor temperatures when closed
- Durable, does not rust or rot

## Specially Designed Control Arm

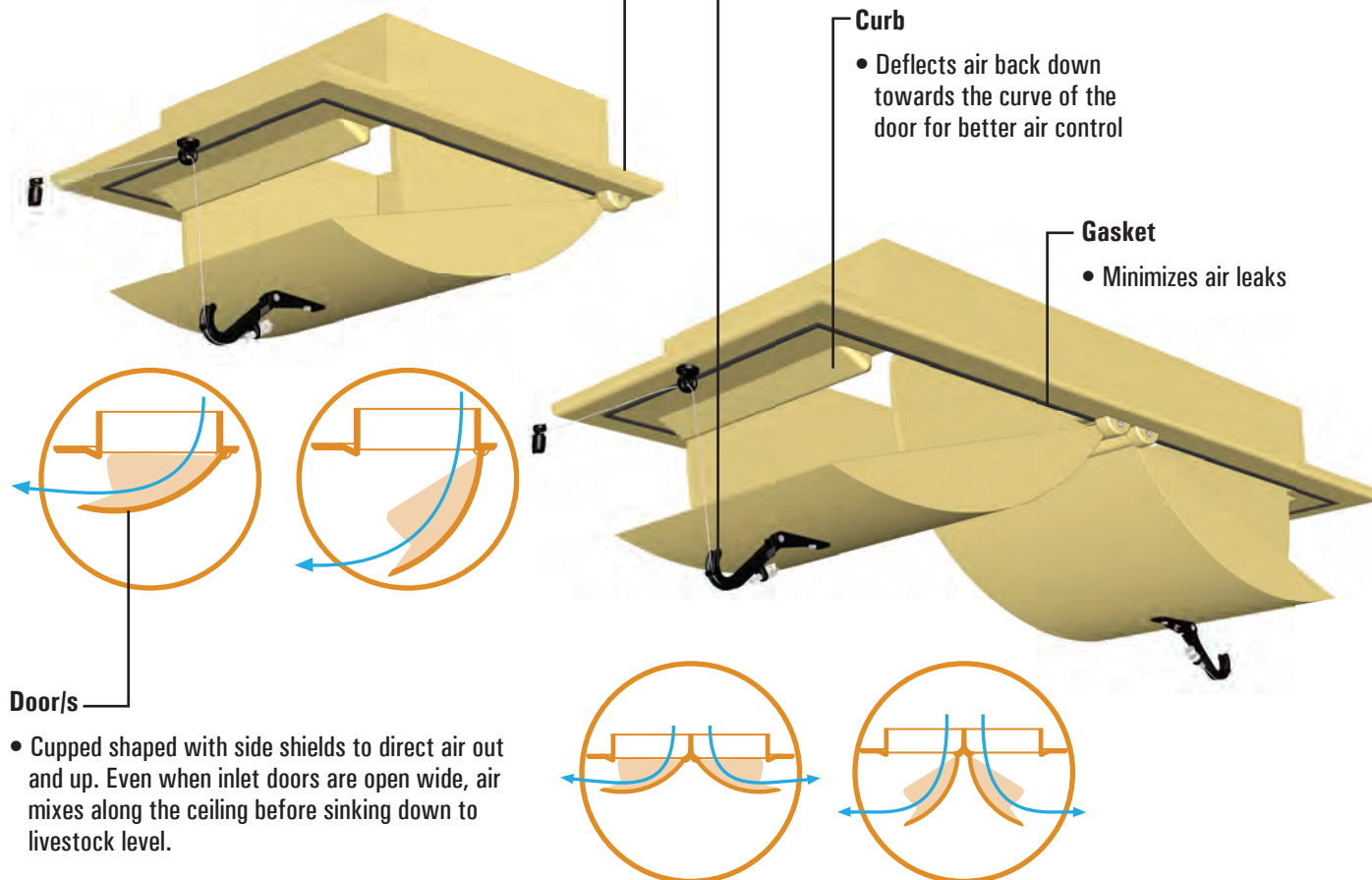
- Protects the inlet doors from cord wear by extending the cord beyond the edge of the inlet door
- Moves the pressure point from the edge of the inlet door to a more centralized location on the inlet door for a more even distribution of force, creating an even engagement with the gasket when closed
- Includes tension adjusting nut to allow for minor adjustments

## Curb

- Deflects air back down towards the curve of the door for better air control

## Gasket

- Minimizes air leaks



## Door/s

- Cupped shaped with side shields to direct air out and up. Even when inlet doors are open wide, air mixes along the ceiling before sinking down to livestock level.

Part#	CFM @			m³/h			Rough Opening	Force Nw	Run	Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa				
Uni-Directional										
TPI-160-P-C-Y	1,053	1,478	1,819	1,600	2,250	3,200	20.28" W x 18.50" L	14.7	7.9"	Yellow
TPI-160-P-C-B	1,053	1,478	1,819	1,600	2,250	3,200	20.28" W x 18.50" L	14.7	7.9"	Black
Bi-Directional										
TPI-160-PD-C-Y	2,106	2,955	3,638	3,200	4,500	6,400	20.28" W x 39.76" L	14.7	7.9"	Yellow
TPI-160-PD-C-B	2,106	2,955	3,638	3,200	4,500	6,400	20.28" W x 39.76" L	14.7	7.9"	Black
Accessories										
TPI-746	Insulation Barrier, 13.7" Corrugated Plastic, for TPI-160-P-C Uni-Directional Series of Ceiling Inlets									
TPI-747	Insulation Barrier, 13.7" Corrugated Plastic, for TPI-160-PD-C Bi-Directional Series of Ceiling Inlets									



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# Actuated, Heavy-Duty Shutter

Having the appropriate inlet that invites fresh air into your barn or building is essential to the health of plants, animals, and people inside your facility. Having the convenience of inlets being powered and controlled by temperature or other environmental factors is not a feature to overlook.

J&D's Actuated, Heavy-Duty Shutter is powerful enough to open even when there is ice and snow buildup on the shutter. It's strong enough to keep the inclement weather out and your building tight during precipitation or abnormally cold or otherwise, unideal weather. You won't hear flapping of shutter veins or other nuisance noise with these Actuated, Heavy-Duty Shutters. Put your trust in these and bet they will be open and closed when you need them to be.



## Shutter

- Frame
  - 5052 corrosion-resistant aluminum
- Louvers
  - 5052 corrosion-resistant aluminum
  - Reinforced with stainless-steel rod
  - Rubber gasketed edge to keep out wind and weather
  - Smooth operating nylon grommets

## Shutter Housing

- 5052 corrosion-resistant aluminum



## Linear Actuator

- Incredibly strong
- Can open shutter even in strong headwinds and when shutter has ice and snow buildup
- Keeps shutter firmly closed when keeping out the elements

Part#	Size *	Rough Opening	Volts	Hz	Ph	Amps
VRSG65A-PS-HD	67 $\frac{7}{8}$ " W" x 65" H x 13" D	65 $\frac{1}{2}$ " W x 65 $\frac{1}{2}$ " H	120/240/277/480	60	1	1

\* Size of shutter housing that would protrude from building once mounted

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Aluminum Exhaust Shutter

J&D's Aluminum Exhaust Shutters are designed to be used with J&D's exhaust fans. Shutters are constructed with an extruded frame with strong welded corners, all at an affordable cost.

## Features

- Efficient shutter with tie bar to eliminate shutter flapping
- Corners are precision milled and welded for durability
- Nylon bushings and solid shafts for smooth performance
- Interlocking louvers for maximum weather seal
- Frame comes with pre-drilled mounting holes to save installation time
- Motorized shutter kits available to turn any aluminum shutter into a power shutter

Part#	Size*	Panel	Rough Opening
VRSG12A-C	12" x 12"	Single	12.5" x 12.5"
VRSG16A-C	16" x 16"	Single	16.5" x 16.5"
VRSG18A-C	18" x 18"	Single	18.5" x 18.5"
VRSG20A-C	20" x 20"	Single	20.5" x 20.5"
VRSG24A-C	24" x 24"	Single	24.5" x 24.5"
VRSG30A-C	30" x 30"	Single	30.5" x 30.5"
VRSG36A-C	36" x 36"	Double	36.5" x 36.5"
VRSG40A-C	40" x 40"	Double	40.5" x 40.5"
VRSG42A-C	42" x 42"	Double	42.5" x 42.5"
VRSG48A-C	48" x 48"	Double	48.5" x 48.5"
VRSG54A-C	54" x 54"	Double	54.5" x 54.5"
VRSG59A-C	59" x 59"	Triple	59.5" x 59.5"
VRSG60A-C	60" x 60"	Double	60.5" x 60.5"
VRSG75	75" x 75"	Triple	75.5" x 75.5"



To maximize efficiency in air movement, shutters should be periodically cleaned of debris.

\*Actual inlet size excluding mounting flange

If being shipped by small package carrier, please use the double boxed option found in the price guide.

# Poly Exhaust Shutter

Poly Shutters from J&D are designed to be used with our poly and fiberglass exhaust fans. The white exterior grade PVC construction is maintenance-free and will never rust, rot, or corrode.

Part#	Size*	Panel	Rough Opening
VRS12P-C	12" x 12"	Single	12.5" x 12.5"
VRS16P-C	16" x 16"	Single	16.5" x 16.5"
VRS20P-C	20" x 20"	Single	20.5" x 20.5"
VRS24P-C	24" x 24"	Single	24.5" x 24.5"
VRS30P-C	30" x 30"	Double	30.5" x 30.5"
VRS36P-C	36" x 36"	Double	36.5" x 36.5"
VRS42P-C	42" x 42"	Double	42.5" x 42.5"
VRS48P-C	48" x 48"	Double	48.5" x 48.5"
VRS54P-C	54" x 54"	Double	54.5" x 54.5"
VRS59P-C	59" x 59"	Double	59.5" x 59.5"
VRS75P-C	75.5" x 75.5"	Triple	76" x 76"

\*Actual inlet size excluding mounting flange

## Features

- Durable PVC framework with poly welded corners and galvanized corner braces
- Louvers are slightly curved to create a tight seal when closed



**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# Aluminum Intake Power Shutter

Aluminum Intake Power Shutters from J&D are designed to be used as an inlet to bring fresh air into your building, and may also be used for free-air exhaust. All Power Shutters include a shutter motor kit and extruded frame with welded corners for extra strength. Order without a cord, or choose our pre-wired models for a "No Electrician Needed" installation.

## Features

- Includes shutter motor kit and hardware
- Efficient shutter with tie bar to reduce shutter flapping
- Frame comes with pre-drilled mounting holes to save installation time
- Nylon bushings and solid shafts for smooth performance
- Corners are precision milled and welded for durability
- Interlocking louvers for maximum weather seal



To maximize efficiency in air movement, shutters should be periodically cleaned of debris.

## Power Shutter Pre-wired With 10' Cord

Part#	Size*	Panel	Rough Opening	Pre-wired for
VRSG12A-PSC	12" x 12"	Single	12.5" x 12.5"	115 Volts
VRSG16A-PSC	16" x 16"	Single	16.5" x 16.5"	115 Volts
VRSG18A-PSC	18" x 18"	Single	18.5" x 18.5"	115 Volts
VRSG20A-PSC	20" x 20"	Single	20.5" x 20.5"	115 Volts
VRSG24A-PSC	24" x 24"	Single	24.5" x 24.5"	115 Volts
VRSG30A-PSC	30" x 30"	Single	30.5" x 30.5"	115 Volts
VRSG36A-PSC	36" x 36"	Double	36.5" x 36.5"	115 Volts
VRSG40A-PSC	40" x 40"	Double	40.5" x 40.5"	115 Volts
VRSG42A-PSC	42" x 42"	Double	42.5" x 42.5"	115 Volts
VRSG48A-PSC	48" x 48"	Double	48.5" x 48.5"	115 Volts
VRSG54A-PSC	54" x 54"	Double	54.5" x 54.5"	115 Volts
VRSG60A-PSC	60" x 60"	Double	60.5" x 60.5"	115 Volts
VRSG75A-PSC	75" x 75"	Triple	75.5" x 75.5"	115 Volts

### Optional Temperature Control

VC115-C	Single Stage Thermostat with 8' Piggyback Cord
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\*Actual inlet size excluding mounting flange

## Power Shutter Without Cord

Part#	Size*	Panel	Rough Opening	Shutter Motor
VRSG12A-PS	12" x 12"	Single	12.5" x 12.5"	115/230 Volts
VRSG16A-PS	16" x 16"	Single	16.5" x 16.5"	115/230 Volts
VRSG18A-PS	18" x 18"	Single	18.5" x 18.5"	115/230 Volts
VRSG20A-PS	20" x 20"	Single	20.5" x 20.5"	115/230 Volts
VRSG24A-PS	24" x 24"	Single	24.5" x 24.5"	115/230 Volts
VRSG30A-PS	30" x 30"	Single	30.5" x 30.5"	115/230 Volts
VRSG36A-PS	36" x 36"	Double	36.5" x 36.5"	115/230 Volts
VRSG40A-PS	40" x 40"	Double	40.5" x 40.5"	115/230 Volts
VRSG42A-PS	42" x 42"	Double	42.5" x 42.5"	115/230 Volts
VRSG48A-PS	48" x 48"	Double	48.5" x 48.5"	115/230 Volts
VRSG54A-PS	54" x 54"	Double	54.5" x 54.5"	115/230 Volts
VRSG60A-PS	60" x 60"	Double	60.5" x 60.5"	115/230 Volts
VRSG75A-PS	75" x 75"	Triple	75.5" x 75.5"	115/230 Volts

### Optional Temperature Control

VC115	Single Stage Thermostat without Cord
-------	--------------------------------------

\*Actual inlet size excluding mounting flange

## Power Shutter Pre-wired With 10' Cord

For "No Electrician Needed" installation, choose our Aluminum Power Shutters pre-wired for 115 Volts with a 10' cord. Combine with our VC115-C single-stage thermostat with 8' cord to automatically open and close your shutter at the temperature set point. Simply plug the thermostat into your wall outlet, then plug your Power Shutter into the piggyback on the thermostat for instant installation.

## Shutter Motors and Shutter Motor Kits

Part#	Description
<b>Shutter Motors</b>	
VRSM10	Motor, 115/230V
VRSM10-C	Motor, Wired for 115V, with 10' Cord
<b>Shutter Motor Kits (Motor &amp; Hardware)</b>	
VRS1260	Motor Kit, 12"-60" Shutter Panel
VRS1260-C	Motor Kit, 12"-60" Shutter Panel, with 10' Cord
VRS75	Motor Kit, 75" Shutter Panel
VRS75-C	Motor Kit, 75" Shutter Panel, with 10' Cord

### Shutter Motor Kits Include:

- Motor
- Lever arm
- Mounting bracket with assembly hardware (not shown)
- Chain
- S-Hooks
- Tension springs
- \*VRS75 Series also includes Chain Tie Bar Assembly (not shown)



**1 Year Warranty on Shutter Motor**

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Intake Power Shutter with Light Trap

J&D's Intake Power Shutter with Light Trap is the first stage in your light deprivation ventilation system. Providing a controlled inlet for the outside air to enter your building while maintaining your controlled lighting needs.

J&D's Intake Power Shutter with Light Trap is a crucial piece of your light deprivation system.

Without the proper ventilation during the light deprivation stage, heat and disease can quickly destroy your profits.

- Housing designed so light trap mounts flush to the interior of the building, freeing up valuable space in your facility and eliminating a protruding ledge that can collect debris and possible pathogens

**Light trap mounts flush to the interior of the building**

**Freeing up valuable space**

**Eliminating a protruding ledge that can collect debris and possible pathogens**

## Light Trap

- 1.5 million :1 light reduction factor
- Easy-to-clean PVC slats
- Simple to assemble\*, install, and remove for cleaning  
- check out the assembly video on our website

## Nylon Light Trap Clips

- For tool-less light trap removal, allowing for quick cleaning and maintenance access

## Exterior Shutter

- Aluminum shutter with tie bar/s minimize unwanted air infiltration and noisy flapping
- Interlocking louvers for maximum weather seal

## Housing

- Durable, corrosion-resistant, 18-gauge galvanized steel for long life

## Shutter Motor

- Opens shutter allowing fresh air into facility

Part#	Volts	Hz	Air Inflow Rate		Inlet Opening	Rough Opening
			CFM @ 0.10 SP	CFM @ 0.15 SP		
LD36	115/230	60	6,048	7,533	36" x 36"	41" x 41"
LD42	115/230	60	8,232	10,253	42" x 42"	47¼" x 47¼"
LD48	115/230	60	10,752	13,392	48" x 48"	53" x 53"
LD54	115/230	60	13,608	16,949	54" x 54"	59" x 59"
LD60	115/230	60	16,800	20,295	60" x 60"	65" x 65"

\* Light trap requires light assembly

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Light Trap

A great solution for reducing light infiltration through inlets and exhaust fans.

Fool-proof darkout capabilities without sacrificing fresh air.

A perfect fit for all your light deprivation needs.

## 1.5 million :1 light reduction factor

- Control plant growth and blooming for bigger, higher quality, larger profit, flowers



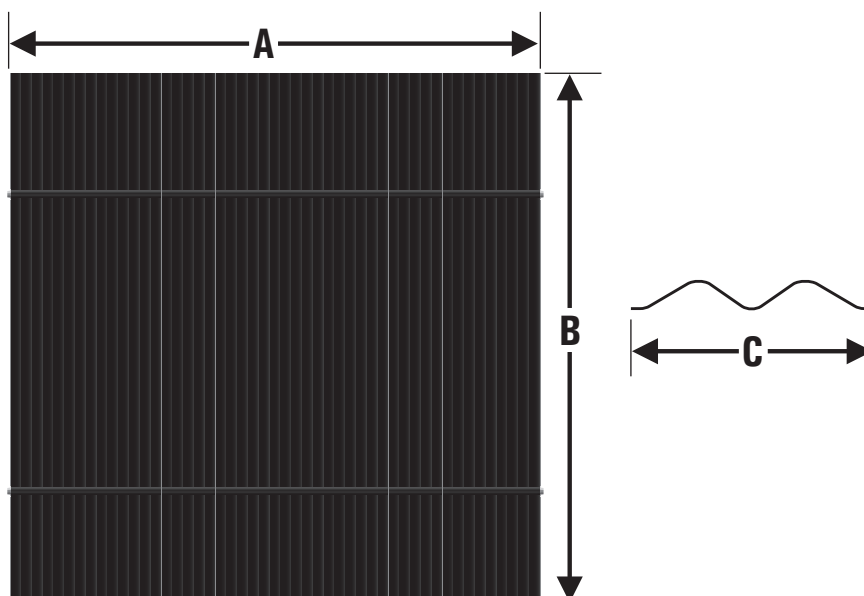
### PVC slats

- 0.05" thick
- With UV inhibitor to prevent premature aging
- Will not corrode
- Minimal reduction of airflow
- Easy to clean
- Lightweight

## Ways to order

- Easy-to-assemble, knocked-down versions for huge savings on shipping  
- check out the assembly video on our website
- Fully assembled for quick installation
- Custom sizes available

Part #	A-width	B-height	C-depth
<b>Assembled</b>			
LT24x24	24"	24"	9"
LT36x36	36"	36"	9"
LT48x48	48"	48"	9"
LT60x60	60"	60"	9"
LT72x72	72"	72"	9"
<b>Unassembled</b>			
LT24x24-KD	24"	24"	9"
LT36x36-KD	36"	36"	9"
LT48x48-KD	48"	48"	9"
LT60x60-KD	60"	60"	9"
LT72x72-KD	72"	72"	9"



INLETS

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

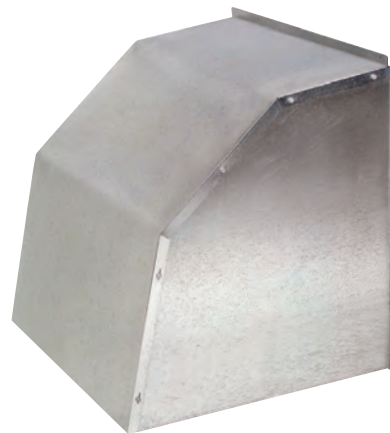


# Weather Hood

Galvanized Weather Hoods from J&D Manufacturing help extend the life of your shutter or fan by protecting your investment against harsh weather and severe wind. Weather Hoods are a perfect fit for J&D's ES Shutter Fans, Twister Fans, Shutters, and will also complement fans and shutters from other manufacturers. Weather Hoods are shipped unassembled with easy step-by-step instructions to save you money on shipping costs.

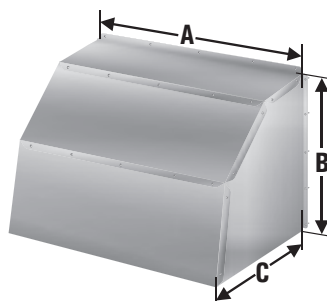
## Features

- Protects your fans and shutters against:
  - Snow
  - Ice
  - Rain
  - Wind
- Multiple sizes to fit almost any shutter or fan
- G90 galvanized steel construction
- Unassembled to save you money on shipping
- Includes assembly hardware and instructions



Part #	Description	A-width	B-height	C-depth
VFT140855	Weather Hood, for 10" & 12" Size Fans	13 $\frac{3}{4}$ "	13 $\frac{7}{8}$ "	11 $\frac{1}{2}$ "
VFT140856	Weather Hood, for 16" Size Fans	18 $\frac{7}{8}$ "	20"	15 $\frac{1}{2}$ "
VFT140857	Weather Hood, for 20" Size Fans	22 $\frac{3}{4}$ "	22 $\frac{1}{2}$ "	19 $\frac{7}{8}$ "
VFT140858	Weather Hood, for 24" Size Fans	26 $\frac{7}{8}$ "	25 $\frac{7}{8}$ "	24"
VFT140859	Weather Hood, for 30" Size Fans	33"	25 $\frac{3}{4}$ "	23 $\frac{7}{8}$ "
VFT140860	Weather Hood, for 36" Size Fans	41 $\frac{3}{4}$ "	25 $\frac{3}{4}$ "	24 $\frac{1}{4}$ "
VFT140861	Weather Hood, for 48" & 50" Size Fans	55 $\frac{3}{4}$ "	25 $\frac{3}{4}$ "	23 $\frac{3}{4}$ "
VFT140862	Weather Hood, for 54" Size Fans	55 $\frac{1}{2}$ "	25 $\frac{3}{4}$ "	24"

All VFT140 series of weather hoods have 1" mounting flanges



**Protect  
your fan  
or shutter**

# Poly Weather Hood

When paired with the appropriate size inlet, J&D's incredibly durable Poly Weather Hood will help to reduce the infiltration of gusting winds and precipitation through your inlet. Purposely designed with a matte black finish, the Poly Weather Hood also minimizes the quantity of reflected light entering through inlets.

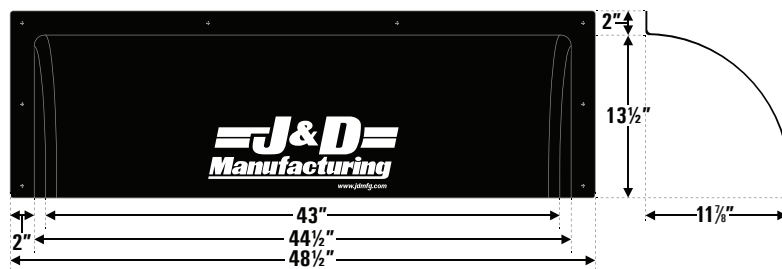
## Features

- Made from **HIPS** (high impact polystyrene)
- Coated with **Korad™** (UV protective acrylic film) to make it virtually UV indestructible as well as, detergent, mildew, and fungus resistant
- Wide mounting flange with indicator dimples to mark recommended mounting fastener locations (mounting hardware not included)
- Strong, yet economical
- Matte black finish
- **5 Year Warranty**
- Optional fitted bird mesh available

**UV Protected  
Durable Poly**



Part#	Description
VFTP1344B	Weather Hood, Black HIPS with Korad™
<b>Accessories</b>	
VFTP1344BBD	Bird Mesh, Poly Weather Hood, w/Hardware



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# Foam Insulated Curved Ceiling Inlet

Curved Ceiling Inlets from J&D Manufacturing will pay you back! Dual-stream inlets include foam-filled insulated doors and airtight seal on all four sides for maximum energy efficiency. The distinctive curved door design moves air into the building across the ceiling for proper mixing, not down toward the floor creating drafts on your animals.

**Energy  
Efficient**

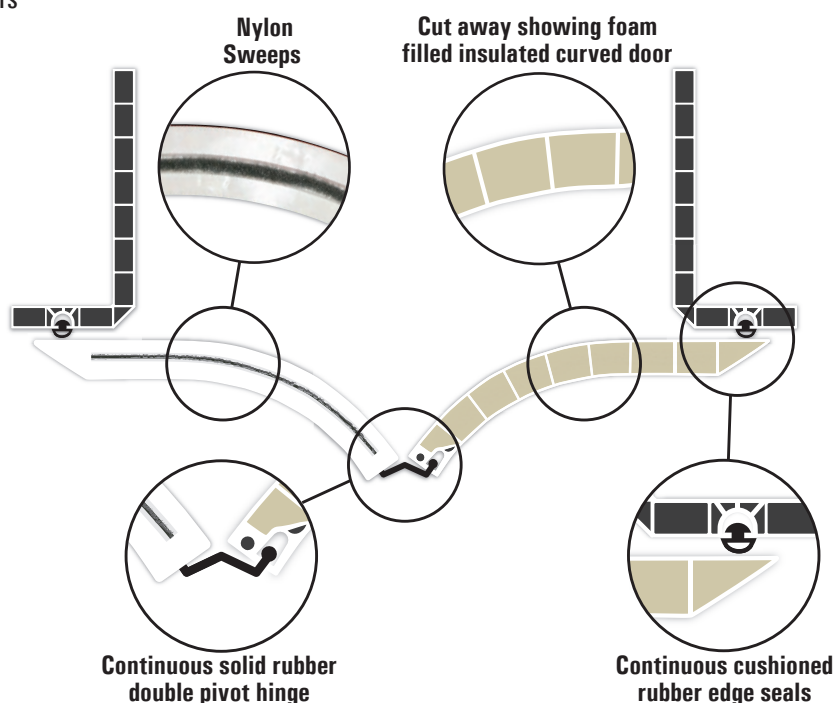


## Features

- Curved “European style” door design to enhance performance
- Unique curved inlet door design jettisons air along the ceiling for proper mixing
- Foam filled insulated doors are energy efficient
- Sealed inlet doors:
  - Continuous, solid rubber, double pivot hinge between inlet doors
  - Continuous rubber edge cushion on top of inlet doors
  - Nylon sweeps on sides of inlet doors
- Entire inlet has strong channel construction
- Corrosion-resistant
- Minimal assembly required for easy installation
- Includes 12” corrugated plastic insulation barrier
- May be cleaned with a high pressure washer
- Add a J&D gearbox or actuator and control to automate your system

Part#	CFM @ .05" SP	CFM @ .10" SP	CFM @ .12" SP	Rough Opening
IC17F	1,300	1,700	1,850	17" W x 17" L
IC24F	1,800	2,300	2,500	17" W x 24" L
IC36F	2,800	3,600	3,850	17" W x 36" L
IC44F	3,500	4,500	4,800	17" W x 44.5" L

J&D can make the IC series inlet in any length up to 60" on special orders.



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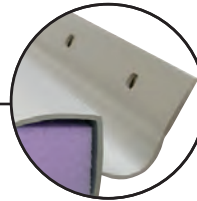
# Pruden Adjustable Baffle Inlet

The Pruden Adjustable Baffle Inlet from J&D Manufacturing is an advanced air control system designed to draw fresh air from the attic during winter, and directly from the outside during the summer. Transform the J&D Baffle Inlet into an eaves closure system by placing the optional poly baffle insert over the interior insulation board.

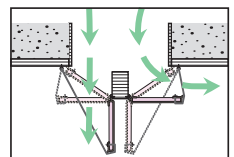
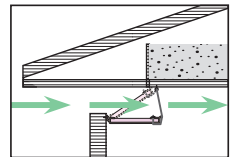
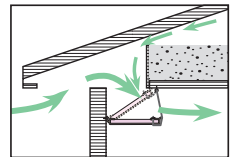
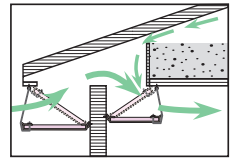
Flexible lip contours to your building for an airtight seal



PFBAB88  
PFBAB128



Flexible hinge and pre-punched rigid PVC mounting strip for easy installation



Part#	Description
<b>Baffle Inlets</b>	
PFBAB88	Baffle Inlet, 8" Width, 8' Section
PFBAB128	Baffle Inlet, 12" Width, 8' Section
<b>Optional Baffle Inserts</b>	
PFBST	Baffle Stiffener, 8', 24 Gauge Galvanized
PFINS8A	Insert, Polyethylene, for 8" Baffle, 0.035" x 7 <sup>3</sup> / <sub>16</sub> " x 96", w/UVI
PFINS12A	Insert, Polyethylene, for 12" Baffle, 0.035" x 11" x 96", w/UVI
<b>End Stops</b>	
PFSES8B	End Stops, Stainless-steel, for 8" Baffle (Set of 2)
PFSES12B	End Stops, Stainless-steel, for 12" Baffle (Set of 2)
PFSESCDBL	End Stops, Stainless-steel, for Double Run 8" Baffle (Set of 2)



PFSES8B  
PFSES12B



PFSESCDBL

## Features

- PVC clad Styrofoam™ insulated doors won't warp, sweat, or rust
- One-piece design with no gluing or assembly required
- Optional PVC inserts to protect insulation against birds and ultra-violet rays
- Optional 24-gauge galvanized baffle stiffeners for additional support
- Inlet is mounted with a low door pivot point to direct air across the ceiling for better mixing

# Pruden Actuated Ceiling Inlet

Pruden Actuated Ceiling Inlets by J&D Manufacturing feature a low door pivot point that directs air across the ceiling for better mixing, not down on the animals. Stainless-steel rod connects the inlets to the actuator for smooth operation and zero stretch when compared to using cable. The PVC clad insulated doors may be pressure washed when closed to maintain efficient operation.

Part#	Rough Opening	CFM @.05	CFM @.10	CFM @.12
<b>Single-Stream Inlet with Hardware</b>				
PFAI2150	8 <sup>1</sup> / <sub>4</sub> " W x 46" L	1,700	2,190	2,340
<b>Dual-Stream Inlet with Hardware</b>				
PFAI1600	17" W x 17" L	1,200	1,620	1,720
PFAI2000	17" W x 24" L	1,690	2,190	2,340
PFAI3400	17" W x 36" L	2,690	3,478	3,665
PFAI4300	17" W x 46" L	3,400	4,383	4,668

## Features

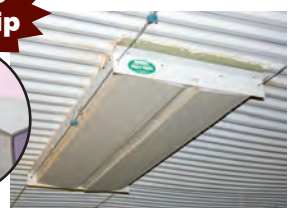
- Inlet frame and doors ship fully assembled
- Low door pivot point to direct air across the ceiling for better mixing
- Manually adjustable door drop cable to set maximum drop length
- Heavy-duty solid <sup>3</sup>/<sub>16</sub>" PVC body with stainless-steel corner frame braces for extra reinforcement
- PVC clad Styrofoam™ insulated doors with the original "Flexible Lip" and center hinge for a tight seal
- Includes slip-on 12" plastic attic insulation barrier



**Strong Stainless-Steel Frame Braces**



**Exclusive Flexible Lip**



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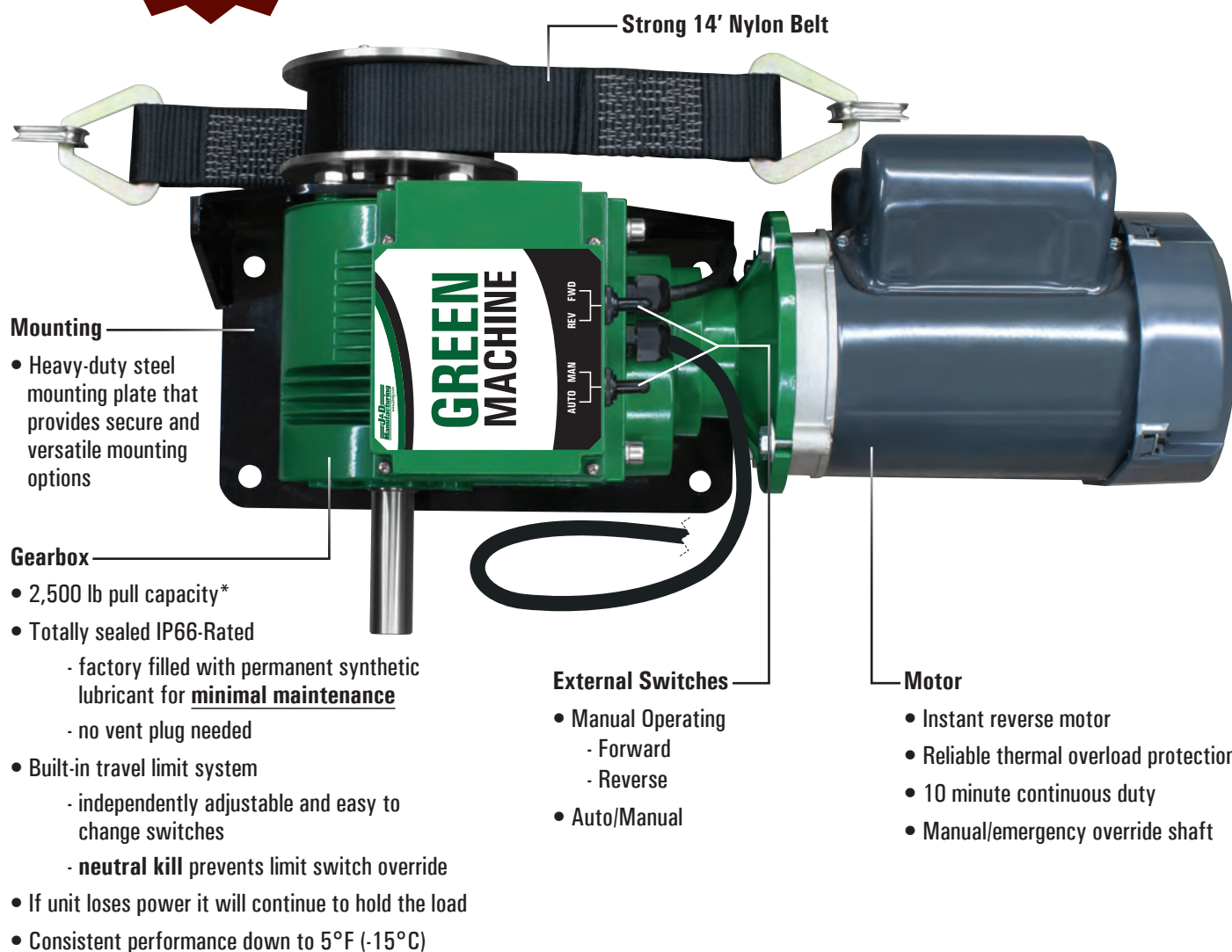
# Green Machine for all your door, inlet, & curtain needs

J&D's Green Machine offers everything you want in a gearbox – strength, durability, versatility, and best of all, easy to install and set up.

**All for 33%  
less than the  
competition**

## Features

- **Durable long life** backed by a **2 Year Warranty** on motor and gearbox
- Added protection of **neutral kill**, a safety function to prevent limit switch override
- 2.1 shaft RPM
- Average 28" per minute travel
- Ships completely assembled
- Ideal for drop-down curtains, tunnel doors, and other wall or ceiling inlets



INLETS

Part#	Pull Capacity*	Speed	Torque	Gear Ratio	Shaft RPM	Volts	Hz	Ph
PCSW2500	2,500 lb	~ 2' per Minute	800 Nm	810:1	2.1	115	60	1
<b>Replacement Parts</b>								
PP11035	Replacement Strap, PCSW2500 Green Machine							
PP10960	Replacement Drum with Strap Assembly, PCSW2500 Green Machine							

\* See instruction manual for recommended pulley ratios

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# Pruden Inlet Actuator

J&D Manufacturing's Pruden Inlet Actuator is designed to work with many types of inlet openings including ceiling and side wall inlets. The Inlet Actuator has a protective housing with sealed electrical components for maximum performance and long life under the harshest agricultural conditions. The adjustable mounting brackets and quick-connect plug-in sockets make the Pruden Inlet Actuator a snap to install. Use with our J&D Switching Center (JDSC) for simple and easy inlet control.



## Features

- Easy-adjust limit switch
- Designed to work with all types of inlet openings including ceiling, wall, slider, or curtain (verify load capacity)
- All parts protected against the harshest corrosive agricultural elements
- Thermal overload protection
- Potentiometer and electrical components are sealed and protected from water and humidity
- Quick and easy to connect with plug-in sockets
- Keyed shaft to prevent shaft from turning
- 1,000 lbs startup and 800 lbs dynamic load
- 24" stroke with a speed of 10" per minute
- Includes two adjustable mounting brackets
- Can be mounted to ceiling or sidewalls
- IP66-Rated and CSA approved
- **1 Year Warranty**

For a larger  
load capacity and longer  
warranty, check out our  
Green Machine on page 136



## Manual Switching Center with Relay

For maximum control and easy operation, add the JDSC Switching Center with relay. The JDSC can be wired for either 115 or 230 Volts.



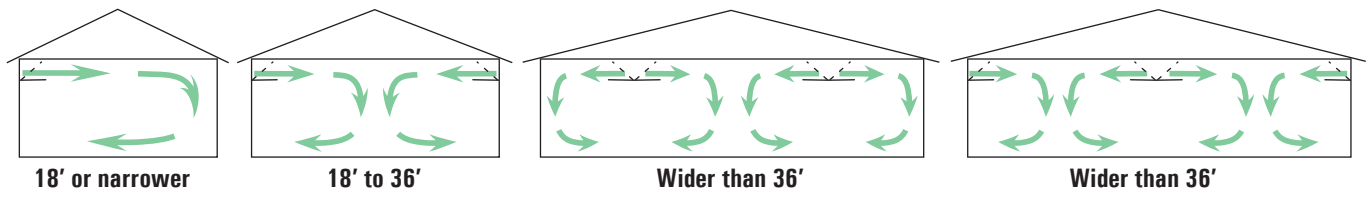
Part #	Volts	Hz	Description
<b>Actuators</b>			
PFACT115-24	115	50/60	Linear Actuator, 24" Stroke Travel, with Mounting Brackets
PFACT230-24	230	50/60	Linear Actuator, 24" Stroke Travel, with Mounting Brackets
<b>Switching Center</b>			
JDSC	115/230	N/A	Manual Switching Center with Relay

Contact J&D Manufacturing to determine actuator requirements per number of inlets.

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# Inlet Accessories & Kits

**Recommended installations based upon building widths.**



Part#	Description
<b>Rod</b>	
PFMBRSS-400	Rod, 1/8" 304 Stainless-Steel, Continuous Roll of 400'
<b>Stainless-Steel Cable</b>	
PFMBC3	Cable, 3/16" Stainless-Steel, 7 x 19, Sold Per Foot
RPSSC187X19	Cable, 1/8" Stainless-Steel, 7 x 19, Sold Per Foot
<b>Pulleys &amp; Guides</b>	
PFBHDP-2AI	Pulley, 3 1/2" Dia. Dbl, w/HD 10Ga Galv Mntng Brckt, 18 1/2" Spread
PFBHDP1	Pulley, 3 1/2" Diameter HD Single, w/10Ga Galv Mounting Bracket
PFBHDP2	Pulley, 3 1/2" Diameter HD Double, w/10Ga Galv Mounting Bracket
TPI-519	Guide, Dual Cable/Rod, Black Poly
<b>Winch</b>	
PFW2000	Winch, 2,000# Load Capacity
PFWB	Winch Bracket, Universal
<b>Tension Spring</b>	
PP11086	Baffle spring, 28 3/4" Length x 1 1/8" Diameter, Clear Zinc Plated
<b>Hardware</b>	
HD10237	Cable Clamp, 1/8" Galvanized
PFANB	Nut/Bolt, Poly (Azuma Nut) for Cable Retention
PFTB	Turnbuckle, 1/4"-20 x 5 1/2" Aluminum, with Hook & Eye Midget
<b>Baffle Kits</b>	
PFBSKR	Kit, Baffle Suspension w/Poly Rope (Rec. 3 per 8' Baffle) (1) HD10156 (Screw Eye, 5/32" x 3/4", Stainless-Steel) (1) PFANB (Nut/Bolt, Cable Retention, Poly Azuma) (1) PFARC (Clamp, Adjustable Rope) (30) Inches of PFBS1CR-A (Poly Rope, 1/8" Diamond Braid)
PFBSKRS	Kit, Baffle Suspension w/Poly Rope & Spacer (Rec. 3 per 8' Baffle) (1) HD10156 (Screw Eye, 5/32" x 3/4", Stainless-Steel) (2) PFANB (Nut/Bolt, Cable Retention, Poly Azuma) (30) Inches of PFBS1CR-A (Poly Rope, 1/8" Diamond Braid) (1) PP10615 (Nylon Spacer)
PFBSKSS	Kit, Baffle Suspension w/S. Steel Cable (Rec. 3 per 8' Baffle) (1) HD10156 (Screw Eye, 5/32" x 3/4", Stainless-Steel) (1) PFANB (Nut/Bolt, Cable Retention, Poly Azuma) (1) PFCA116 (Assembly, Lift Cable 1/8" x 30" (7x7 strand) w/Stop & Washer)
PFTD	Kit, Tie Down, (Rec. 1 per 8' Exterior Eaves Baffle) (1) HD10079 (Washer, Flat 3/16" x 11/16", Stainless-Steel) (1) HD10156 (Screw Eye, 5/32" x 3/4", Stainless-Steel) (1) PFANB (Nut/Bolt, Cable Retention, Poly Azuma) (48) Inches of PFBS1CR-A (Poly Rope, 1/8" Diamond Braid)
PFARCR	Kit, Adjustable Rope & Clamp (1) PFARC (Clamp, Adjustable Rope) (30) Inches of PFBS1CR-A (Poly Rope, 1/8" Diamond Braid)
PFWC	Kit, PVC Weight & Cable Clamp (2) HD10237 (Clamp, Cable 1/8" Galv) (2) PFEC4 (4" PVC End Cap) (19) Inches of 4" PVC Sch 40 Pipe
PFBSH	Kit, Baffle Spring (1) HD10157 (Screw Hook, 3/8" x 4 3/8" Zinc) (1) PFBS (Baffle Spring, 6 1/2" Long x 11/16" Diameter)



**PFBHDP-2AI**



**PFBHDP1**



**PFBHDP2**



**TPI-519**



**PFW2000**



**PFWB**



**PP11086**



**HD10237**



**PFANB**



**PFTB**



**HD10156**



**PFARC**



**PFBS1CR-A**



**PFARCR**



**PFCA116**



**PFWC**



**PFBSH**

INLETS

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## The Importance Of The Correct Setup

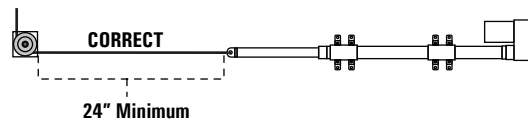
With inlets being your control of fresh air into your building, ensuring that they are dependably powered is of the utmost importance. Whether you are using a gearbox or an actuator, if your system is not correctly set up you will lose out on performance and longevity of your unit which can lead to even bigger losses.

Here are some basic guidelines of dos and don'ts to follow when designing your system, refer to the instructions of your specific unit for additional information.

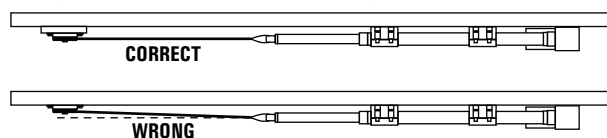
**If your system is not correctly set up, you will lose out on performance and longevity of your unit.**

### Actuator

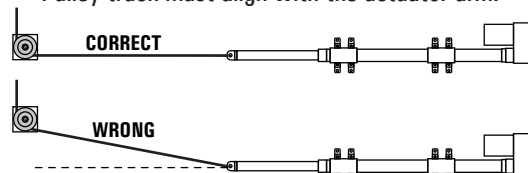
Pulley must be mounted a minimum of 24" from the end of the extended actuator arm.



Pulley track must align on the same plane with actuator arm.

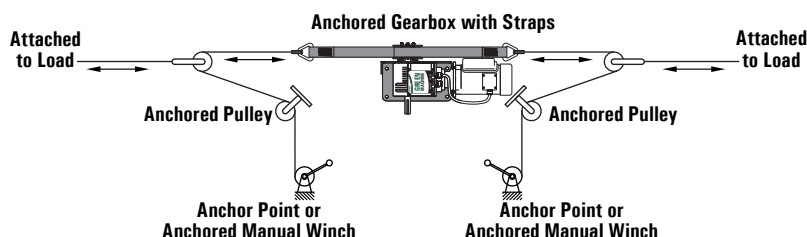


Pulley track must align with the actuator arm.



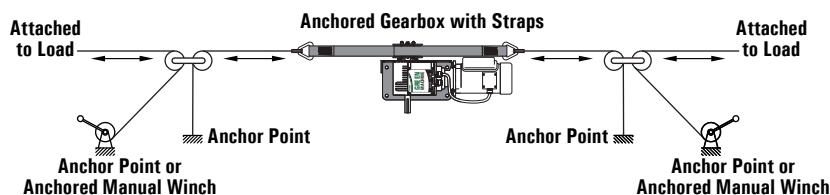
### Gearbox

#### 2:1 Ratio - Heavy Loads - Loads up to 2,000 lbs



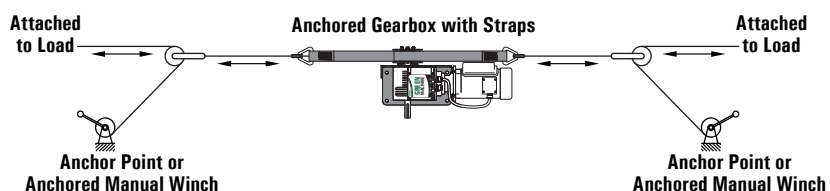
Using this configuration, the ratio of motor gearbox cable to load cable travel is 2:1. The motor gearbox only sees  $\frac{1}{2}$  of the actual load and the load cables travel at  $\frac{1}{2}$  speed. This configuration is good for heavy loads.

#### 1:1 Ratio - Standard - Only for loads up to 1,000 lbs



Using this configuration, the ratio of motor gearbox cable to load cable travel is 1:1. There is no mechanical advantage and the motor gearbox will see the actual load.

#### 1:2 Ratio - NOT Recommended - Will Void Warranty



Using this configuration, the ratio of motor gearbox cable to load cable travel is 1:2. This is the least desirable configuration. This configuration can only accommodate  $\frac{1}{2}$  the load, it doubles the load on the motor gearbox and compromises the accuracy of the open and close stop positions.

# TAKE ADVANTAGE OF THIS MIST OPPORTUNITY

Keep production levels high and air temperature low with J&D's line of fogging, misting, evaporative cooling, and soaking solutions. Heat stress, whether experienced by humans, animals, or plants, is nothing to mess around with. Besides decreased production, heat stress can severely injure or kill. Understand what your comfortable temperature zone is, and let us help you achieve it. Add cooling solutions to new or existing facilities. With our products, we can retrofit to your application.

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Smart Products with Smart Benefits –  
MicroCool's fogging systems use sensors to  
track humidity, saturation, and temperature.



## MICROCOOL - SMART HIGH PRESSURE FOGGING SYSTEMS

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### PORTABLE COOLING UNITS

Perfect for indoor and outdoor needs,  
these units provide a portable relief station.

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### HPF PORTABLE PUMPS

Bring the cool to the pool, balcony, greenhouse, horse barn, or work area.

# MicroCool Smart High Pressure Fogging Systems

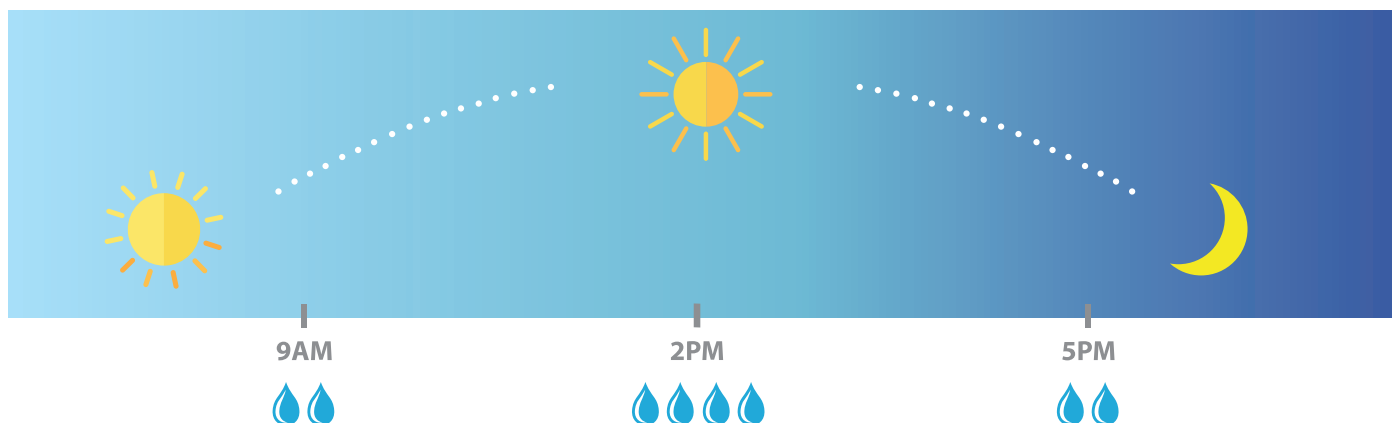
J&D Manufacturing has partnered with MicroCool, a leading provider of fogging systems. MicroCool has over 40 years of experience with fogging, which aligns perfectly with J&D's 40+ years of experience in ventilation and animal comfort. The greatest benefit of partnering with MicroCool is giving access to their smart high pressure fogging and evaporative cooling product lines to our agriculture and horticulture customers. MicroCool's impressive and smart fogging products will be the perfect match to J&D's high quality ventilation products. Together, we will increase your cooling capabilities which will help increase your production. J&D Manufacturing is your exclusive source of MicroCool products to the dairy, hog, and poultry markets.



## Benefits of MicroCool's Smart High Pressure Fogging Systems

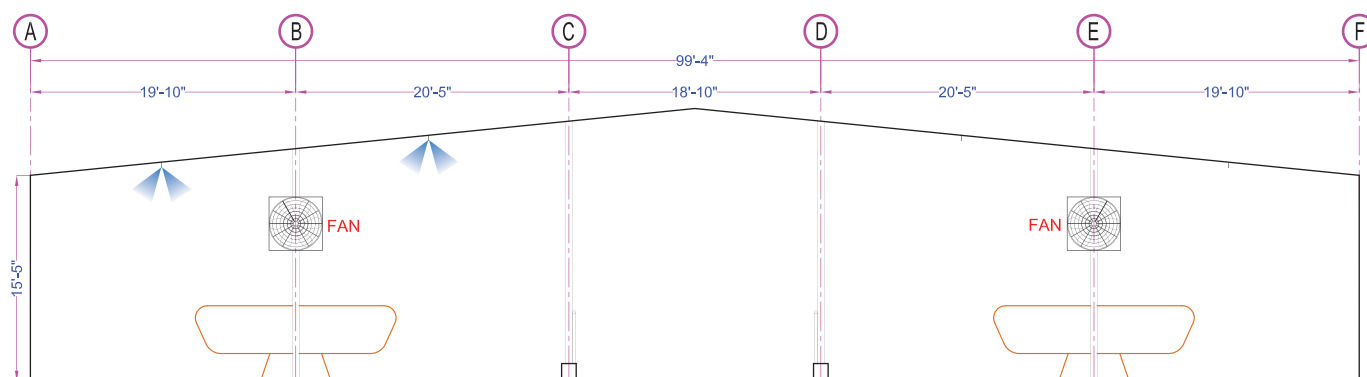
Smart Products with Smart Benefits – MicroCool's fogging systems use sensors to track humidity, saturation, and temperature.

- **Variable speed pump** – It's not all or none with MicroCool's systems. When paired with a smart controller (Pulse Controller/Intelli), your entire fogging system can be automated. Need different amounts of fog at different times of the day? No problem for MicroCool systems.



- **Zone fogging** – allows for consistent cooling/fogging throughout the barn or building where it's needed. Need more fogging in the maternity pen or hospital barn? No problem for MicroCool systems.

*Ex: HPF lines run throughout the whole barn, but only need fogging in zones A-C at the moment.*



160' of 3/8" SS ROC Line with Dual Nozzles @ 60" O/C Spacing

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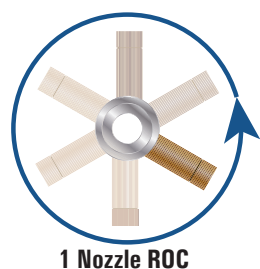
# MicroCool Smart High Pressure Fogging Systems

**Another cool thing about MicroCool  
Smart High Pressure Fogging Systems  
are the patented ROCs (Rapid Orientation Collars)**

MicroCool's integrated ROC nozzle and stainless-steel or flex line system offers the ultimate in strength and flexibility. The patented ROC (Rapid Orientation Collar) allows nozzle adjustments with little or no effort while the lightweight yet robust steel line handles the most demanding of installations.

Specially fabricated O-rings seal against line pressure, typically 1,000 to 1,200 psi (70 to 85 bars). Even under full pressure, the ROC collar can easily be rotated on the stainless line to any desired position. Clips sit at either side of the collar in special grooves made during the manufacturing process, firmly holding the collar in place.

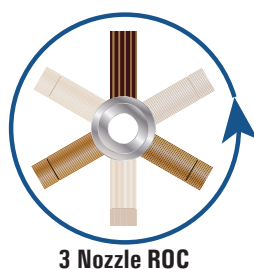
The system can be configured with 1, 2, or 3 nozzles mounted on the collar depending on the application.



1 Nozzle ROC



2 Nozzle ROC



3 Nozzle ROC

**360°  
Nozzles -  
Precision  
Fogging!**



## Value Added Benefits

- Stainless-steel nozzle collar orientation can be easily rotated to directed fog distribution to a precise angle.
- No more wasted time lining up nozzles before installation. Easy nozzle angle adjustments can be made after install.
- For large humidification or horticulture applications, 2 or 3 nozzles per collar can be configured to concentrate the fog system where needed and reduce multiple fog lines.
- Line clamps are engineered so that line mounting is simple and level.
- Unlike welded steel tube, the ROC line does not bend nor distort during manufacturing which ensures a stronger, straighter line. Plus, there's no welding spot discoloration.

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Portable Cooling Units

J&D Manufacturing's Portable Cooling Units combine the cooling effect of high velocity air with a temperature dropping mist to create a feeling of 15-30°F<sup>±</sup> cooler.

Perfect for indoor and outdoor needs, these units provide a portable relief station.

## Features

### Fan

- High output, direct drive performance
- Oscillation range of 93°
- Fans are certified UL507 indoor/outdoor fans
- Corrosion-resistant, powder coated fan guards meet OSHA 1910.212(a)(5) requirements
- Totally enclosed, maintenance-free, high-efficiency fan motors have completely sealed ball bearings, are UL and CUL recognized, and are covered by a **1 Year Warranty**

**Fully  
Assembled**

### Misting System

- Each nozzle can be independently swiveled or shut off allowing finite control over the amount and location of the mist created
- Enclosed 60 PSI pump provides the pressure needed to create a fine cooling mist
- Pump mounted out of view and secured to frame below tank for easy access

### Unit

- Separate fan and pump controls
- GFCI plug-in for additional safety
- Rugged 8" tires
- Comfort grip handles
- Large 22-gallon tank holds enough water to provide 5-8 hours of cooling mist
- Folds down for easy transportation and storage
- Tubular aluminum frame is light weight yet durable

**Oscillating**

Both models fold down for easy transportation and storage.



**Independent  
Shut Off Nozzles**



**Independent Fan  
& Mist Switches**



Part#	Fan Size	Fan HP	Volts	Amps <sup>NP</sup> Fan Pump	Hz	Ph	Fan Spd	FPM	Thrust (lbf)	Thrust Eff. Ratio	kW	RPM	Thrust CFM	Thrust CFM/Watt	Drive	Prop	Cord	# of 0.5 GPH Nozzles	Test #
VPC24-POWOSC	24"	1/4	115	2.65 0.06	60	1	3	<b>915</b>	<b>3.21</b>	<b>12.0</b>	<b>.267</b>	<b>1,088</b>	<b>3,950</b>	<b>14.8</b>	Direct	3-Alm	10'	4	C0836
								<b>790</b>	<b>2.30</b>	<b>12.0</b>	<b>.191</b>	<b>874</b>	<b>3,340</b>	<b>17.5</b>					
								<b>705</b>	<b>1.68</b>	<b>10.6</b>	<b>.158</b>	<b>774</b>	<b>2,850</b>	<b>18.0</b>					
VPC30-POWOSC	30"	1/4	115	2.65 0.06	60	1	3	<b>760</b>	<b>3.30</b>	<b>11.1</b>	<b>.297</b>	<b>1,055</b>	<b>5,010</b>	<b>16.9</b>	Direct	3-Alm	10'	4	C0835
								<b>585</b>	<b>1.76</b>	<b>9.0</b>	<b>.196</b>	<b>751</b>	<b>3,670</b>	<b>18.7</b>					
								<b>475</b>	<b>1.20</b>	<b>7.8</b>	<b>.154</b>	<b>620</b>	<b>3,030</b>	<b>19.7</b>					

<sup>NP</sup> Amp information as documented on motor name plate

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

± Cooling capabilities are dependent on surrounding air temperature, humidity, and wind

# Cooling Your Herd with High Pressure Fogging, Misters, and Soakers



HPF Micro Droplets

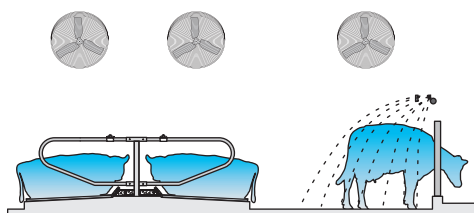


HPF Stainless-Steel Lines in cross tunnel ventilated barn



HPF Stainless-Steel Panel Fan Ring Kit

Misting is ideal in low humidity locations. Easily attach crosses or loops to your basket fans.



Soak the cow, not the feed in the feed line, with 180° nozzle assemblies. Soaked cows returning to well ventilated stalls lengthen the cooling effect and its benefits.

Understanding a cow's comfortable temperature zone is *imperative* to maintaining herd health. Although there is some debate on the upper critical temperature threshold of dairy cows; most often, we begin seeing heat stress in cows between 72-75°F. At and above these temperatures cows cannot lose enough heat through their respiratory tracts and skin. Heat stress can appear in temperatures less than 72°F, especially if there is high humidity. Panting increases while dry matter food intake decreases. This combination negatively affects milk production. Unfortunately, when temperatures begin to decrease to more comfortable levels, milk production isn't positively correlated, and doesn't bounce back to 'normal'. A cow's internal system has been compromised and could take weeks or even months to correct itself. That's why it's so important to keep your herd heat-stress free.

Housing cows inside with proper ventilation may not be enough to keep cows cool. High pressure fogging systems, misters, and soaking systems can help cool the air around your herd, as well as cool the cows themselves.

## High Pressure Fogging

Using high pressure pumps, 1,000 PSI or higher, water is forced through nozzles dispersing micro droplets (fog) of water that are quickly evaporated into the air instantly decreasing the air temperature. If managed and installed correctly moisture does not collect on surfaces.

## Misters

While not needing high pressure pumps, misters still need about 40 PSI, which most line pressure meets. Misting nozzles produce larger droplets than fog and work best in low humidity and high temperatures settings to minimize water droplets reforming and wetting surfaces.

## Soakers

Considered a low pressure system at 20 PSI, soakers produce even larger droplets than misters to soak the cows. To be effective, the cow needs to be wet enough that the water reaches the skin of the cow, and not just wetting the hair. It is the contact of the water with the warm skin and its evaporation aided by air movement that cools the cow. This method works even in the most humid of environments.

The key to any evaporative cooling method is the automation of the system. Since the evaporative cooling process is dependent on air humidity levels, temperature, and air movement, you need a control that can monitor all of these inputs. It can be programmed to automate your system appropriately for the most effective cooling.

Regardless of the system that you choose, they are most effective when paired with the correct ventilation system. Air movement is critical in the evaporative cooling process.

If you are noticing heat stress in your herd, consider adding a high pressure fogging, misting, or soaking system. They are easily retrofittable and customizable. For more information on how high pressure foggers, misters, and soakers can help you keep your herd cool, contact your local J&D product seller or contact J&D directly. Keep your production levels high and your air temperature low with J&D's high pressure fogging, misting, and soaking solutions.



# Soaking System

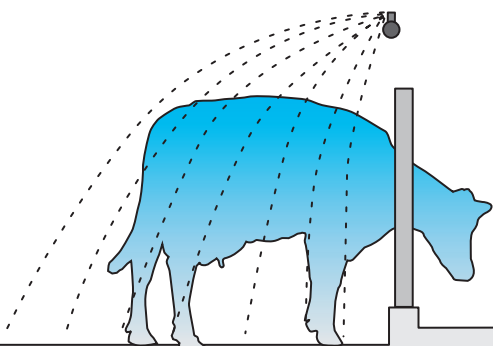
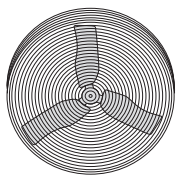
When the temperature-humidity index is above 68°F, livestock will experience heat stress. During heat stress, respiration rates increase, while milk production and reproduction decrease. One option to control heat stress is to install a soaker system over the feed line, parlor (enter and exit lanes) and in the holding pen. J&D Manufacturing's Soaking System has been designed to provide your livestock with dependable relief from the damaging effects of heat stress.

J&D Manufacturing's Soaking System provides all the necessary components needed to install and automate the system. Combined with J&D Manufacturing's recirculation fan line, you can achieve unsurpassed cooling benefits.

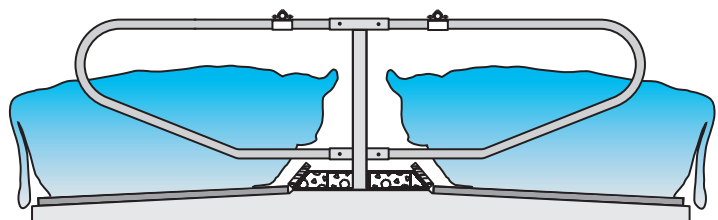
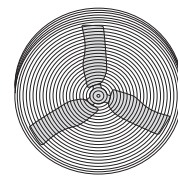
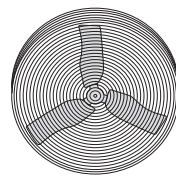
## Features

- Ideal for high humidity environments
- Helps maintain high levels of feed intake during heat stress periods, minimizing loss in production during the hottest summer months
- Utilizes existing tunnel and cross ventilation systems with increased returns
- Completely automated with the use of a thermostat and cycle timer in conjunction with an electric solenoid water valve
- In a typical installation, systems run on 16 minute cycles. Soaking occurs for 4 minutes on and 12 minutes off with recirculation fans running the entire 16 minute cycle to maximize the cooling effect and to dry livestock for the next soaking cycle

**Soak the cow not the feed in the feed line with 180° nozzle assemblies.**



**Soaked cows returning to well ventilated stalls lengthen the cooling effect and its benefits.**



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# Soaking System

Part#	Description
<b>Components for 100' System</b>	
SS01	Valve, 1" Ball
SS041	Filter Housing, 1" Spin Down with Filter and Flush Valve
SS041F	Filter, 140 Mesh for 1" Filter Spin Down Housing
SS071	Valve, 1" 110 Volt Brass Solenoid with 1" PVC Adapters
SSP101	Pressure Reducer, 25 PSI with 1" PVC Adapters
SSP180	Sprinkling Assembly, 180° Brass Nozzle, 36 Gallons Per Hour with 1" PVC Tee and Adapters
SSP180N	Nozzle, 180° Brass Sprinkling 36 Gallons Per Hour
SUA38	Cable, 3/8" Galvanized - Per Foot
VC115	Control, Single Stage Manual Thermostat, 120/240/277 Volts, 50/60Hz
SSP8601	Cycle Timer, 1 Pole, 120 VAC, 20 Amps, 59 Minute Maximum, 1 Minute Minimum
<b>Components for 200' System</b>	
SS011	Valve, 1½" Ball
SS04112	Filter Housing, 1½" Spin Down with Filter and Flush Valve
SS04112F	Filter, 140 Mesh for 1½" Filter Spin Down Housing
SS0715	Valve, 1½" 110 Volt Brass Solenoid with 1½" PVC Adapters
SSP1015	Pressure Reducer, 25 PSI with 1" & 1½" PVC Adapters
SSP18112	Sprinkling Assembly, 180° Brass Nozzle, 36 Gallons Per Hour with 1½" PVC Tee and Adapters
SSP180N	Nozzle, 180° Brass Sprinkling 36 Gallons Per Hour
SUA38	Cable, 3/8" Galvanized - Per Foot
VC115	Control, Single Stage Manual Thermostat, 120/240/277 Volts, 50/60Hz
SSP8601	Cycle Timer, 1 Pole, 120 VAC, 20 Amps, 59 Minute Maximum, 1 Minute Minimum
<b>Components for 500' System</b>	
SS012	Valve, 2" Ball
SS04	Filter Housing, 2" Spin Down with Filter and Flush Valve
SS04F	Filter, 140 Mesh for 2" Filter Spin Down Housing
SS072	Valve, 2" 110 Volt Brass Solenoid with 2" PVC Adapters
SSP101A	Pressure Reducer, 25 PSI with 1" & 2" PVC Adapters
SSP182	Sprinkling Assembly, 180° Brass Nozzle, 36 Gallons Per Hour with 2" PVC Tee and Adapters
SSP180N	Nozzle, 180° Brass Sprinkling 36 Gallons Per Hour
SUA38	Cable, 3/8" Galvanized - Per Foot
VC115	Control, Single Stage Manual Thermostat, 120/240/277 Volts, 50/60Hz
SSP8601	Cycle Timer, 1 Pole, 120 VAC, 20 Amps, 59 Minute Maximum, 1 Minute Minimum



Ball Valve



Filter Housing



Solenoid Valve



Pressure Reducer

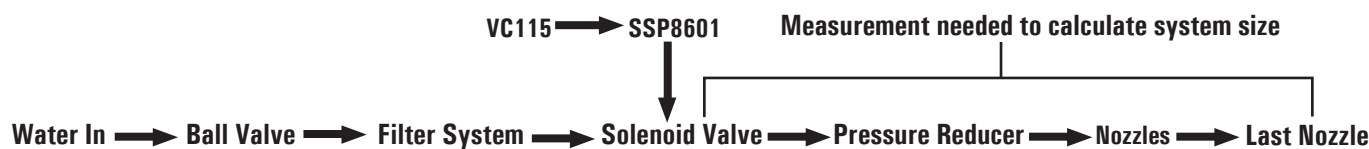


Cycle Timer

## Installation Information

- All nozzles must face up
- Space sprinkling nozzles every 7'
- Due to high water flow rates, adequate water supply must be provided

## Typical System Layout



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# High Pressure Fogging System

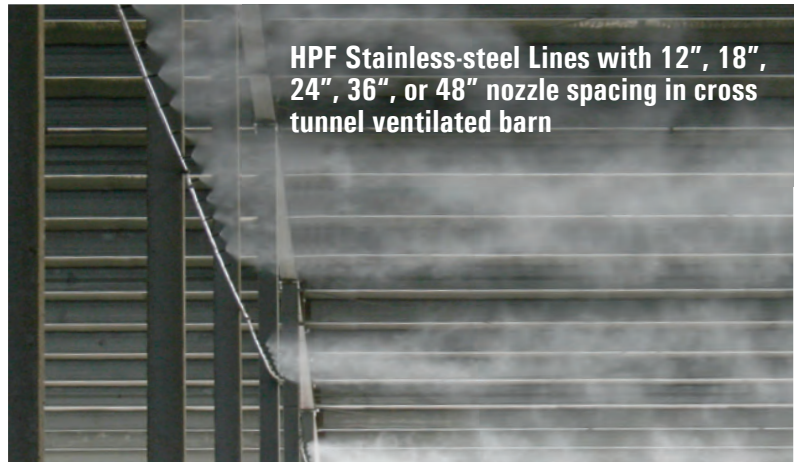
J&D's 1000 PSI High Pressure Fog System is a great way to reduce temperatures in most facilities. Clean water is pumped through the lines and sprayed out of the nozzles in billions of tiny (micron) particles making it easy for the hot air to evaporate the water for maximum cooling. J&D's High Pressure Fog System can be put in your buildings with little to no structural modifications.

J&D's High Pressure Fog System allows for maximization of warm weather stocking levels and provides the required humidity levels to control dust and odor.

## Features

- Reduces temperatures quickly and uniformly with minimal energy use
- Reduces heat stress for
  - Decreased mortalities
  - Increased production
- Easy to retrofit your current ventilation system
- Made from corrosion-resistant materials for long life
- Single phase and 3-phase systems available
- Filters out particles down to 1 micron with our 3-stage filter kits
- Anti-drip brass nozzles with end of line auto drain valve helps keep your floor dry

**For the best performing system  
contact your J&D representative  
for design assistance.**

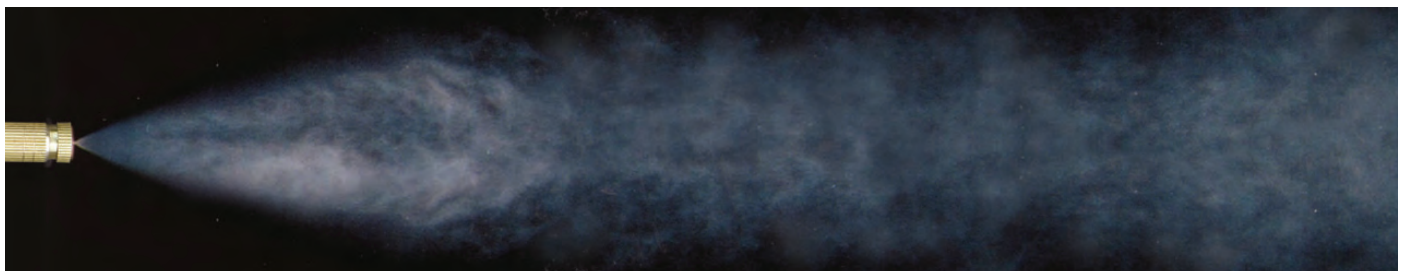


HPF Stainless-steel Lines with 12", 18", 24", 36", or 48" nozzle spacing in cross tunnel ventilated barn



HPF Stainless-steel Panel Fan Ring Kit with 12 nozzles

**Standard systems  
offer a choice of  
1, 2, 3, 5, or 10 HP  
motors**



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# Choose a Delivery System

## HPF Stainless-Steel Lines

Part#	Description
<b>Lines with 0.015 GPM Nozzles and Couplers</b>	
VHPR200212	Pipe, ½" Stainless-steel 20', (20) 0.015 GPM Nozzles, 12" Spacing
VHPR200218	Pipe, ½" Stainless-steel 20', (13) 0.015 GPM Nozzles, 18" Spacing
VHPR200224	Pipe, ½" Stainless-steel 20', (10) 0.015 GPM Nozzles, 24" Spacing
VHPR200236	Pipe, ½" Stainless-steel 20', (7) 0.015 GPM Nozzles, 36" Spacing
VHPR200248	Pipe, ½" Stainless-steel 20', (5) 0.015 GPM Nozzles, 48" Spacing
<b>Lines with 0.039 GPM Nozzles and Couplers</b>	
VHPR200312	Pipe, ½" Stainless-steel 20', (20) 0.039 GPM Nozzles, 12" Spacing
VHPR200318	Pipe, ½" Stainless-steel 20', (13) 0.039 GPM Nozzles, 18" Spacing
VHPR200324	Pipe, ½" Stainless-steel 20', (10) 0.039 GPM Nozzles, 24" Spacing
VHPR200336	Pipe, ½" Stainless-steel 20', (7) 0.039 GPM Nozzles, 36" Spacing
VHPR200348	Pipe, ½" Stainless-steel 20', (5) 0.039 GPM Nozzles, 48" Spacing
<b>Solid Line with Couplers</b>	
VHPR2000	Pipe, ½" Stainless-steel 20' (No Nozzles)

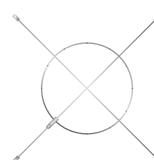


### Features

- Standard lines are 20' long for easy and quick installation
- Made of corrosion-resistant ½" 304 stainless-steel pipe
- Each line end is fitted with a ½" brass female flare swivel nut with o-ring  
(Additional fittings are required to assemble system)
- Lines come with 0.015 GPM or 0.039 GPM anti-drip nozzles (0.045 GPM nozzles available by special order)
- Choose 12", 18", 24", 36", or 48" nozzle spacing

## HPF Panel Fan Ring Kit

Increase the cooling power of your 50", 55", and 60" panel fans. Easy-to-install x-frame and quick connect slip lock fitting for high pressure nylon tubing make this a great way to retrofit.



**SS3012**  
30" Stainless-steel panel fan ring kit with hose connector and (12) 0.015 GPM nozzles



Part#	Description
SS3012	Fog Ring Kit, 30" Stainless-steel with Coupler, (12) 0.015 GPM Anti Drip Brass Nozzles, X-Frame w/Mounting Ties
<b>Accessories</b>	
SS38	X-Frame ONLY, can be used to mount HPF Crosses and Rings to 50", 55" and 60" panel fans

## AirBlaster HPF Kit - 3 Louver

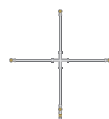
Part#	Description
SSAB34015	HPF Kit, AirBlaster, 3 Louver, 12 Nozzle @ .015 GPM, w/Hardware

- Increase cooling
- Easy to install on new or previously installed 3 Louver AirBlasters



## HPF Crosses and Ring Kits for Basket Fans

These kits are a great way to retrofit your current basket fans for increased cooling.



**SS36SH**  
13" Stainless-steel fogging cross with hose connector and (4) 0.015 nozzles



**SS36SH6**  
13" Stainless-steel fogging cross with hose connector and (6) 0.015 nozzles



**SS3011**  
30" Stainless-steel fog ring with hose connector and (12) 0.015 nozzles

Part#	Description
SS36SH	4-way Cross, 13" Stainless-Steel with Coupler, (4) 0.015 GPM Anti Drip Brass Nozzles - for 20" or Larger Basket Fan
SS36SH6	6-way Cross, 13" Stainless-Steel with Coupler, (6) 0.015 GPM Anti Drip Brass Nozzles - for 20" or Larger Basket Fan
SS3011	Fog Ring Kit, 30" Stainless-Steel with Coupler, (12) 0.015 GPM Anti Drip Brass Nozzles - for 48" or Larger Basket Fan

## HPF Ring Kits for JD360 Destratifier Fan

Part#	Description
SS2218	JD360 Fog Ring Kit, 22" with (8) 0.006 GPM Nozzles
SS2228	JD360 Fog Ring Kit, 22" with (8) 0.015 GPM Nozzles
SS2238	JD360 Fog Ring Kit, 22" with (8) 0.039 GPM Nozzles

Customize your cooling with three nozzle sizes to choose from 0.006, 0.015, or 0.039 GPM



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# Selecting a Pump and Filter Kit

**Making sure the system you choose fits your needs is easy with these 3 simple steps.**

- 1.) Total the quantity of nozzles from all of the components of your chosen delivery system.
- 2.) Make note of the size of anti-drip nozzle your system will be using - 0.015 GPM, 0.039 GPM or 0.045 GPM.
- 3.) Using the HP Fog Kits table that matches your electrical needs and the collected nozzle data, review the highlighted maximum # of nozzles section of the table. Find the kit/s that fit your needs (*do not oversize pumps by more than 10%*) and desired filter size.

## Single Phase HP Fog Kits

Part#	GPM	HP	Volts*	Hz	Amps	Maximum # of Nozzles		
						0.015	0.039	0.045
2.5" Filter Kits								
VHP1125	1.3	1	115/230	60	13.2/6.6	87	33	29
VHP2225	3.0	2	115/230	60	20/10	200	77	67
VHP3125	4.1	3	115/230	60	28/14	273	105	91
VHP5125	5.7	5	230	60	20.2	380	146	127
4.5" Filter Kits								
VHP3145	4.1	3	115/230	60	28/14	273	105	91
VHP5145	5.7	5	230	60	20.2	380	146	127

## 3 Phase HP Fog Kits

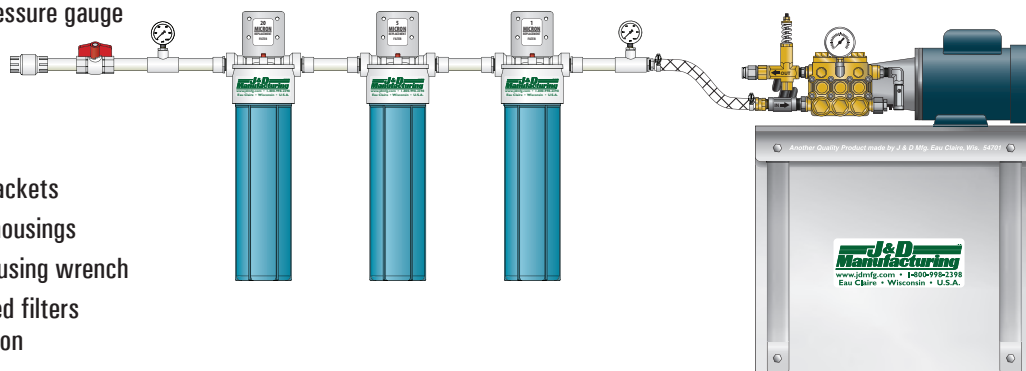
Part#	GPM	HP	Volts*	Hz	Amps	Maximum # of Nozzles		
						0.015	0.039	0.045
2.5" Filter Kits								
VHP1325	1.3	1	230/460	60	3.8/1.9	87	33	29
VHP2325	3.0	2	230/460	60	5.8/2.9	200	77	67
VHP3325	4.1	3	230/460	60	8.2/4.1	273	105	91
VHP5325	5.7	5	230/460	60	13/6.5	380	146	127
VHP10325	10.2	10	230/460	60	29.4/14.7	680	262	227
4.5" Filter Kits								
VHP3345	4.1	3	230/460	60	8.2/4.1	273	105	91
VHP5345	5.7	5	230/460	60	13/6.5	380	146	127
VHP10345	10.2	10	230/460	60	29.4/14.7	680	262	227

\* High Pressure Fog pump motors are warrantied for 90 days.

Single and 3-phase kits are 208 Volts compatible however running units at this reduced voltage will decrease the maximum number of nozzles the unit will be able to support. If you require a 208 Volt system please contact a J&D representative to assist you in finding a system to meet your needs.

## High Pressure Fog Kits Contain

- Pump\* with regulator and high pressure gauge
- Motor - single or 3-phase
- Shelf for motor and pump
- Complete filter kit which includes
  - Fixtures
  - Valves
  - Adapters
  - 1 each of the following pleated filters  
20 Micron - 5 Micron - 1 Micron
  - Filter brackets
  - 3 filter housings
  - Filter housing wrench



\* Refer to High Pressure Fog Installation Manual and Pump Service Instructions for winterizing and warranty details.

## Water Quality Requirements

Thorough water testing and treatment of your intended water supply by qualified water treatment professionals is required to minimize mineral deposits and corrosion that may block or erode nozzles.

Shown are the basic parameters required of your water supply. Additional requirements by your water treatment professionals may be justified. Damage or clogging of nozzles or other elements of J&D's High Pressure Fogging system due to insufficiently treated water will not be covered by warranty.

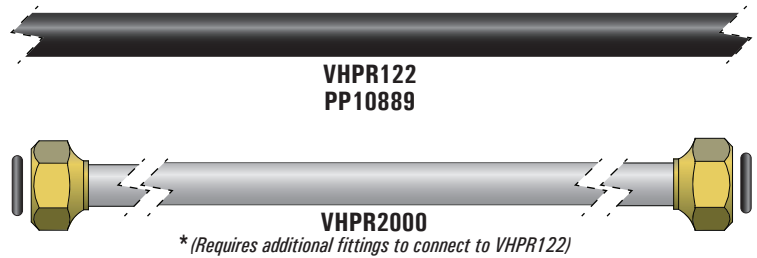
Test	Required Parameters
Hardness	Less than 7gpg (120 parts per million or milligrams per liter)
PH	7.0 or higher
Dissolved Metals	Listed are the most common and problematic. Consult with your water specialist on what additional dissolved metals you may need to correct. <u>Iron</u> - Less than 0.3 parts per million <u>Manganese</u> - Less than 0.05 parts per million
TDS (Total Dissolved Solids)	Less than 500 milligrams per liter

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# Additional Components

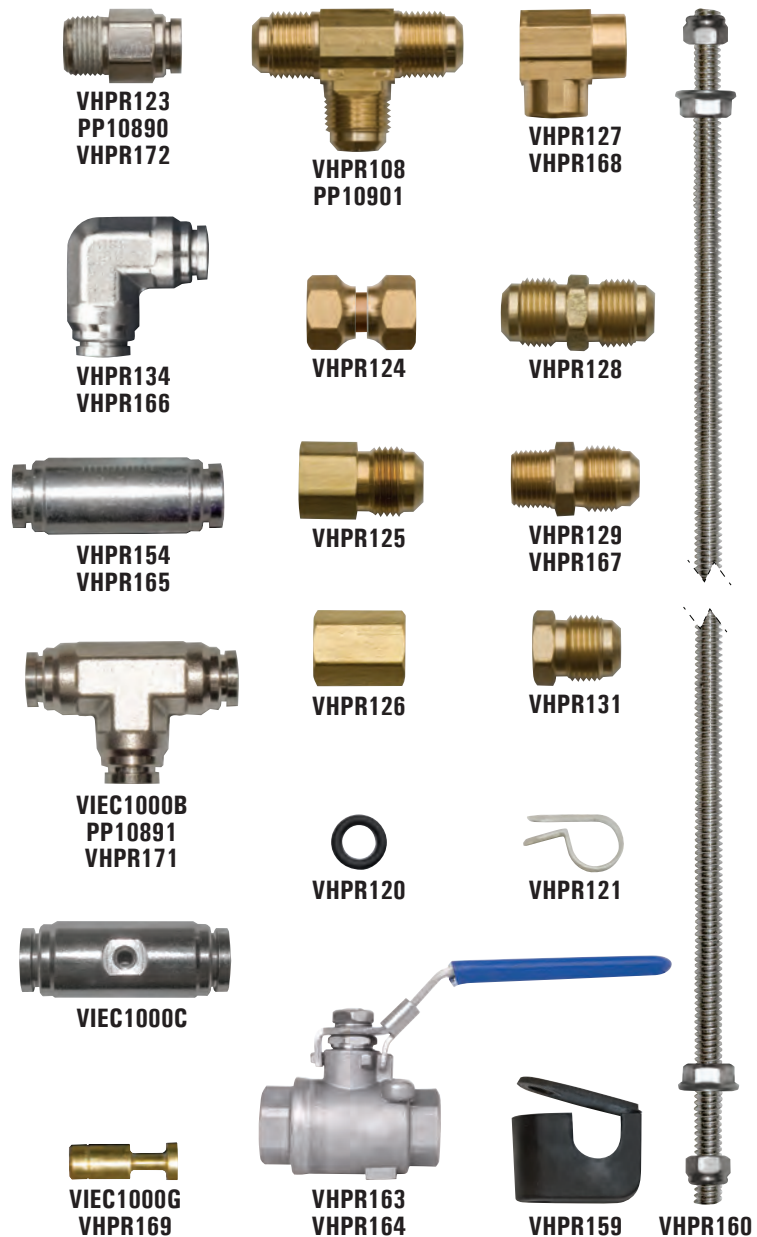
Part#	Description
<b>Nylon Tubing</b>	
VHPR122	Tubing, 3/8" OD High Pressure Nylon ( <i>per foot</i> )
PP10889	Tubing, 1/2" OD High Pressure Nylon, 500' roll
<b>Solid Line with Couplers</b>	
VHPR2000	Pipe, 1/2" Stainless-steel 20' ( <i>No Nozzles</i> )*
<b>Kit</b>	
VHPR162	Auto Drain Kit, HPF System ( <i>recommend 1 per system</i> )
<b>Fittings - Slip Lock</b>	
VHPR123	Adaptor, 3/8" Slip Lok x 3/8" Male, NP Brass
PP10890	Adaptor, 1/2" Slip Lok x 1/2" Male, NP Brass
VHPR172	Adaptor, 1/2" Slip Lok x 3/8" Male, NP Brass
VHPR134	Elbow, 3/8" Slip Lok, NP Brass
VHPR166	Elbow, 1/2" Slip Lok, NP Brass
VHPR154	Coupling, 3/8" Slip Lok, NP Brass
VHPR165	Coupling, 1/2" Slip Lok, NP Brass
VIEC1000B	Tee, 3/8" Slip Lok, NP Brass
PP10891	Tee, 1/2" Slip Lok, NP Brass
VHPR171	Tee, 1/2" Slip Lok x 3/8" Slip Lok, NP Brass
VIEC1000C	Tee, 3/8" Slip Lok, w/Nozzle Opening, NP Brass
VIEC1000G	End Plug, 3/8" Slip Lok, Brass
VHPR169	End Plug, 1/2" Slip Lok, Brass
<b>Fittings - Threaded Brass</b>	
VHPR108	Tee, 1/2" Male Flare, Brass
PP10901	Tee, 1/2" Male Flare x 3/8" Male NPT, Brass
VHPR124	Adaptor, 1/2" Female Flare Swivel Nut, Brass
VHPR125	Coupling, 1/2" x 3/8" FIP, Brass
VHPR126	Coupling, 3/8" Female, Brass
VHPR127	Elbow, 3/8" Female NPT x 3/8" Female NPT, Brass
VHPR168	Elbow, 1/2" Female NPT x 1/2" Female NPT, Brass
VHPR128	Union, 1/2" Flare x 1/2" Flare, Brass
VHPR129	Union, 1/2" Flare x 3/8" MIP, Brass
VHPR167	Union, 1/2" Flare x 1/2" MIP, Brass
VHPR131	Plug, 1/2" Flare, Brass
VHPR120	O-Ring, for HPF Flare Brass Fittings
<b>Valve</b>	
VHPR163	Ball Valve, Full Port, 3/8" S.S., 2,000 Working PSI
VHPR164	Ball Valve, Full Port, 1/2" S.S., 2,000 Working PSI
<b>Pipe/Tube Mounting</b>	
VHPR121	Strap, Nylon Loop to Secure Pipe or Nylon Tube
VHPR159	Mounting Clip, to Secure 1/2" OD Pipe ( <i>10 Pk</i> )
VHPR160	Mounting Rod, 18", S.S., Compatible w/VHPR159
<b>Nozzles</b>	
PP10884	Nozzle, Anti Drip, 0.015 GPM, Brass w/SS Tip
PP10885	Nozzle, Anti Drip, 0.039 GPM, Brass w/SS Tip
PP10886	Nozzle, Anti Drip, 0.045 GPM, Brass w/SS Tip
VIEC1000I	Valve, Auto Drain ( <i>for end of line</i> )
VHPR107	Nozzle, Plug, Brass ( <i>plug unwanted nozzle port</i> )
<b>Other</b>	
VHPR150	O-Ring, Replacement for Nozzles

NOTE: Parts received may differ from appearance of parts shown.



## VHPR162 - Auto Drain Kit

(1) VHPR120	(1) VIEC1000C	(1) VHPR122 is required but not included
(1) VHPR123	(1) VIEC1000G	<i>Length needed is determined by installation and distance to desired draining location.</i>
(1) VHPR125	(1) VIEC1000I	



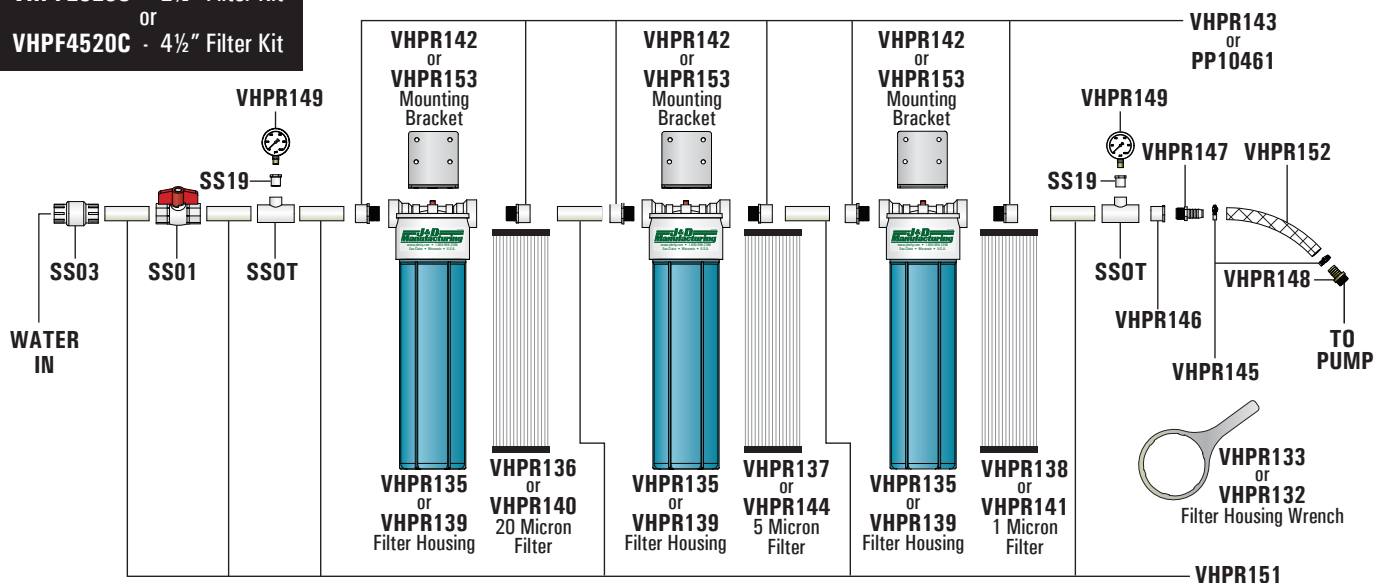
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# Basic Assembly of HPF System

## Complete 3-Stage Filter Kits

VHPF2520C - 2½" Filter Kit  
or  
VHPF4520C - 4½" Filter Kit



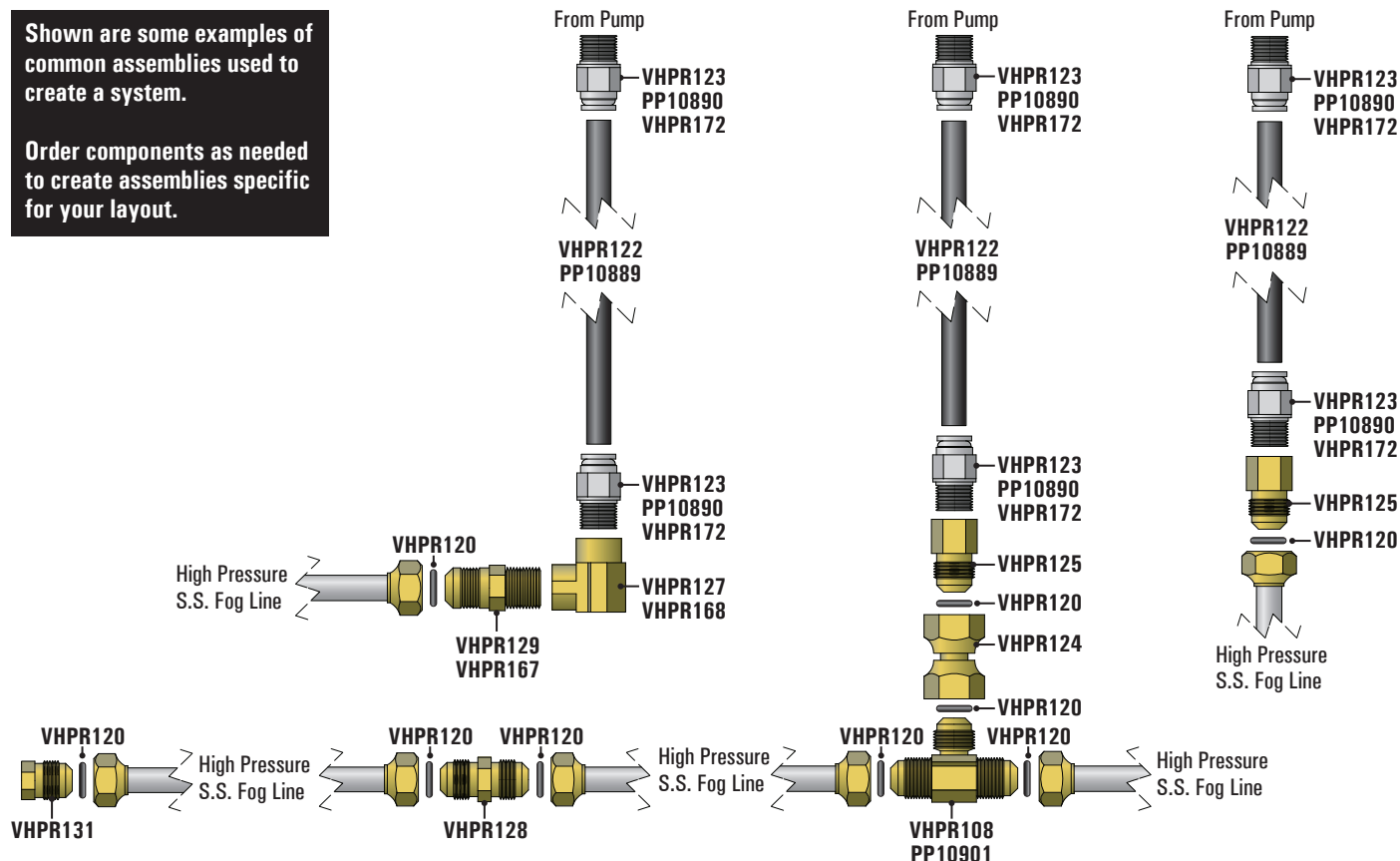
Each filter kit also includes: (1) VHPR123 adapter to connect the pump to the VHPR122 nylon tube

(1) PP10815 single use pouch of anti-seize lubricant to be used when assembling pump to motor

*See installation manual for additional details.*

Shown are some examples of common assemblies used to create a system.

Order components as needed to create assemblies specific for your layout.



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# Replacement Parts

## 3 Stage Filter Kits

Part#	Description
<b>2½" Filter Kits</b>	
VHPF2520C	Complete* 3 Stage, 2½" Filter Kit, w/Fittings, Gauges & Filters
<b>4½" Filter Kits</b>	
VHPF4520C	Complete* 3 Stage, 4½" Filter Kit, w/Fittings, Gauges & Filters
* Detailed breakdown of what is included in Complete 3 Stage Filter Kit is shown under Basic Assembly of HPF System on previous page.	

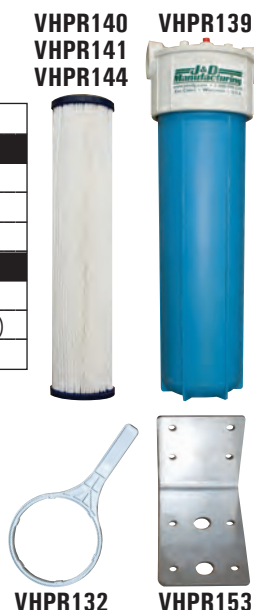
## 2½" Filters & Parts

Part#	Description
<b>2½" Replacement Filters</b>	
VHPR136	Filter, 2½" x 20", 20 Micron, Pleated
VHPR137	Filter, 2½" x 20", 5 Micron, Pleated
VHPR138	Filter, 2½" x 20", 1 Micron, Pleated
<b>Additional Replacement Parts &amp; Accessories</b>	
SS05R	O-Ring Replacement for 2½" Filter Housing
VHPR133	Wrench, for 2½" x 20" Filter Housing
VHPR135	Housing, for Filter (2½" x 20" Filter Size)
VHPR142	Bracket, for 2½" x 20" Filter Housing



## 4½" Filters & Parts

Part#	Description
<b>4½" Replacement Filters</b>	
VHPR140	Filter, 4½" x 20", 20 Micron, Pleated
VHPR144	Filter, 4½" x 20", 5 Micron, Pleated
VHPR141	Filter, 4½" x 20", 1 Micron, Pleated
<b>Additional Replacement Parts &amp; Accessories</b>	
VHPR132	Wrench, for 4½" x 20" Filter Housing
VHPR139	Housing, for Filter (4½" x 20" Filter Size)
VHPR153	Bracket, for 4½" x 20" Filter Housing



## Fittings & Accessories

Part#	Description
<b>Fittings</b>	
PP10461	Adaptor, ¾ x 1" MXS
SS19	Reducer, ½" x ¼" SxM
SS0T	Tee, 1" x 1" x ½" SxSxS
VHPR143	Adaptor, 1" Mt x Sweat PVC
VHPR146	Bushing, Reducer, 1" Spigot x ¾" FPT
VHPR147	Adaptor, Male, ¾" MPT x ¾" Insert
VHPR148	Adaptor, ¾" Barb x ¾" GHT
<b>Accessories</b>	
SS01	Valve, 1" Ball
SS03	Valve, 1" Check (One Way)
VHPR145	Clamp, Hose, ¾" - 1¾", Stainless-steel
VHPR149	Gauge, Low Pressure, Water Supply
VHPR151	Tubing, 1" Schedule 40 PVC, 2' Length
VHPR152	Hose, ¾" Braided, 5' Length
VHPRSHELF	Galvanized Pump Shelf w/Supports & Hardware

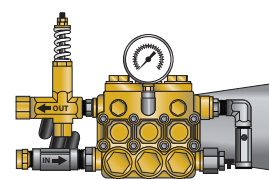


## C-Face TEFC Motors

Part#	HP	Volts	Hz	Amp	Shaft
<b>Single Phase</b>					
VHPM1	1	115/230	60	13.2/6.6	5/8"
VHPM2A	2	115/230	60	20/10	5/8"
VHPM3	3	115/230	60	28/14	1½"
VHPM5A	5	230	60	20.2	1½"
<b>3 Phase</b>					
VHPM13A	1	230/460	60	3.8/1.9	5/8"
VHPM33A	3	230/460	60	7.8/3.9	1½"
VHPM53A	5	208-230/460	60	13.6-12.3/6.2	1½"
VHPM103	10	230/460	60	13/6.5	1¾"

## Pumps with Unloader

Part#	GPM	Hollow Shaft	HP
VHPP13	1.3	5/8"	1
VHPP30	3.0	5/8"	2
VHPP41	4.1	1½"	3
VHPP57	5.7	1½"	5
VHPP137A	10.2	24mm	10



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# HPF Portable Pumps



## Features

- Portable and self-contained
- 3/8" slip lock connector for easy installation
- Includes 5 micron 5" commercial water filter with standard 3/4" GHT hose fitting
- Attached 10' cord with 3-prong plug pre-wired for 110 Volts
- Raised rubber feet to reduce vibration and minimize sound
- 0.15-1.0 GPM models are compatible with optional Smart Phone Controller

Pumps							
Part#	GPM	HP	Volts	Hz	Amps	Dimensions	Weight
JD14241	0.15	1/4	110	60	1.38	17" x 10" x 9 1/2"	16 lbs
JD14242	0.3	1/4	110	60	2.15	17" x 10" x 9 1/2"	16 lbs
JD14122	0.5	1/2	110	60	5.8	26" x 12" x 13"	52 lbs
JD14124	1.0	1	110	60	9.2	26" x 12" x 13"	61 lbs
JD14126*	2.0	2	110	60	16.5	26" x 12" x 13"	76 lbs

### Pump Accessories

JD62200\* Smart Phone Pump Controller

### Replacement Filter

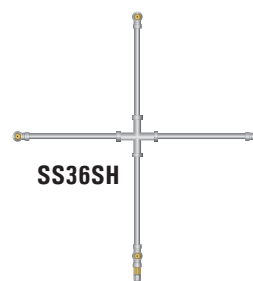
JD60380-5-INCH Filter, 5", 5 Micron, for HDP Portable Pumps

\* 2.0 GPM model not compatible with Smart Phone Pump Controller

JD14241 0.15 GPM Min-Max	JD14242 0.3 GPM Min-Max	JD14122 0.5 GPM Min-Max	JD14124 1.0 GPM Min-Max	JD14126 2.0 GPM Min-Max	Part#	Description
HPF 22" Ring Kits for JD360 Destratifier Fan						
3-5	6-9	10-19	20-39	40-55	SS2218	(8) .006 GPM Nozzles = .048 GPM
1-2	3-4	4-7	8-15	16-23	SS2228	(8) .015 GPM Nozzles = .120 GPM
0	1	2-3	3-6	6-9	SS2238	(8) .039 GPM Nozzles = .312 GPM
HPF 13" Stainless-Steel Cross Kits for 20" or Larger Basket Fans						
4-Way Cross Kit						
2-3	4-5	8-9	15-17	33-35	SS36SH	(4) 0.015 GPM = 0.060 GPM
6-Way Cross Kit						
2	3-4	5-6	10-12	22-24	SS36SH6	(6) 0.015 GPM = 0.090 GPM



**Bring the  
cool to the  
pool, balcony,  
greenhouse,  
horse barn, or  
work area**



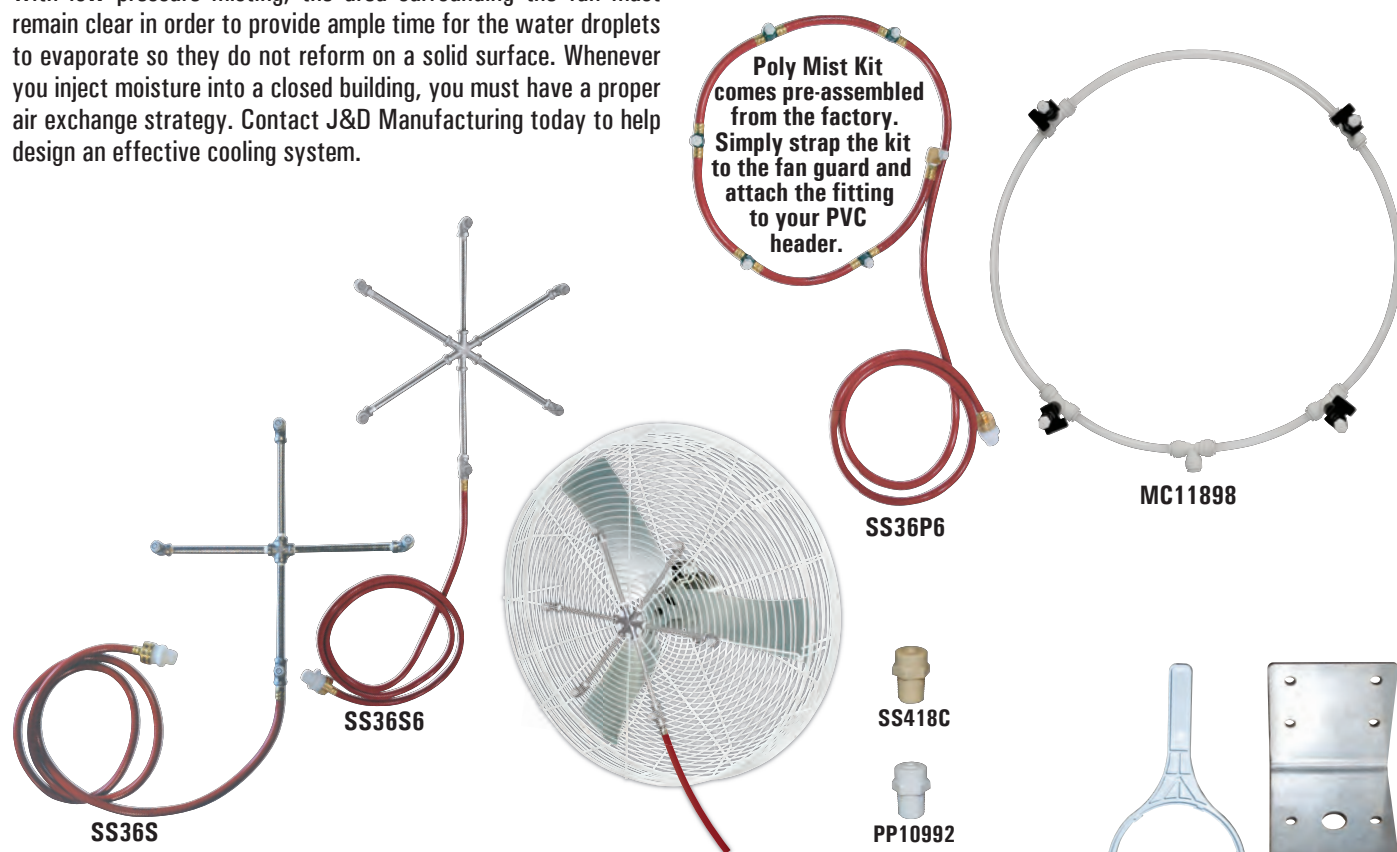
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# Misting Systems

When air exchange and fan recirculation are not enough to cool your environment, consider a J&D Manufacturing misting system. Mist kits are available as poly rings or stainless-steel crosses with 4 or 6 nozzles. The rigid construction of the stainless-steel mist kits keeps nozzles perpendicular to the airflow for a consistent mist pattern. All models come completely assembled with nozzles, hose, and female hose connector. Mist kits can be easily attached to any recirculation fan guard with cable ties.

With low pressure misting, the area surrounding the fan must remain clear in order to provide ample time for the water droplets to evaporate so they do not reform on a solid surface. Whenever you inject moisture into a closed building, you must have a proper air exchange strategy. Contact J&D Manufacturing today to help design an effective cooling system.



Part#	Description	# of Nozzles	Nozzle+Strainer Part #s	Nozzle Flow Rate	Total Water Usage*	Flow Rate PSI
Stainless Steel Misting Crosses						
SS36S	Stainless Steel Cross, 4-way, with 6' Hose	4	PP10992 + PP10927	0.72 GPH	2.88 GPH	40
SS36S6	Stainless Steel Cross, 6-way, with 6' Hose	6	PP10992 + PP10927	0.72 GPH	4.32 GPH	40
Mist Kits						
SS36P4	Poly Mist Kit, 4 Nozzle, with 6' Hose	4	PP10992 + PP10927	0.72 GPH	2.88 GPH	40
SS36P6	Poly Mist Kit, 6 Nozzle, with 6' Hose	6	PP10992 + PP10927	0.72 GPH	4.32 GPH	40
Rigid Poly Misting Ring						
MC11898	Poly Mist Ring, 4 Nozzle	4	PP10992 + PP10927	0.72 GPH	2.88 GPH	40
Replacement Nozzles & Strainer						
SS418C	Mist Nozzle, 1.2 GPH, Cream, With Strainer				* Misting GPH is based on 40 PSI of water pressure	
PP10992	Mist Nozzle, 0.72 GPH, White, (PP10927 Strainer Sold Separately)					
PP10927	Strainer, for SS418 and PP10992 Nozzles					
Accessories						
VHPR139	Housing, for Filter (4½" x 20" filter size)					
VHPR144	Filter, 4½" x 20", 5 Micron, Pleated					
VHPR132	Wrench, for 4½" x 20" Filter Housing					
VHPR153	Bracket, for 4½" x 20" Filter Housing					

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# Evaporative Pad Cooling System

Maintain maximum comfort and production levels, even in extreme heat conditions, with J&D Manufacturing's Evaporative Pad Cooling System. Our pad system is designed to enhance the cooling capability of your current ventilation system to further reduce the temperature in your building. Single or stacked pad systems available to cover a small area or an entire sidewall.

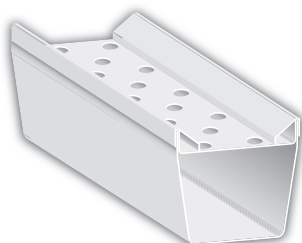
## Features

### Distribution and Return System

- High efficiency
- Largest self contained PVC return gutter on the market today
- Easy to install, one-piece PVC trough
- Closed top or open top feature for easy visibility and regulation of water supply
- Automatic float matches water supply with cooling demands
- Submersible pump
- Easy to clean
- Simple shut down for seasonally affected environments
- Water filter, shut off, flush valve and bleed-off included in plumbing package
- Stainless-steel and PVC construction to safeguard your investment
- Optional stainless-steel return gutter wall mount brackets

### Pads

- 6" deep pads specially designed and coated for effective evaporation and maximum durability
- Water is spread evenly over the pad surface as a film rather than droplets for uniform wetting
- Pad surface dries quickly in absence of water to inhibit micro-organism growth
- Non-porous surface inhibits algae and minerals from attaching to pads
- Coated pads are tough and durable for repeated cleaning
- Easy to install, remove, and replace pads



**Up to 80'**  
**with one pump!**



Part#	Description
<b>Single Layer Header &amp; End Kits</b>	
ECH300	Header & End Kit, for 3' Pad
ECH400	Header & End Kit, for 4' Pad
ECH500	Header & End Kit, for 5' Pad
ECH600	Header & End Kit, for 6' Pad
<b>Stacked Header &amp; End Kits</b>	
ECH700S	Header & End Kit, Stacked System, for 7' of Pad
ECH800S	Header & End Kit, Stacked System, for 8' of Pad
ECH900S	Header & End Kit, Stacked System, for 9' of Pad
ECH1000S	Header & End Kit, Stacked System, for 10' of Pad
<b>Distribution &amp; Return Kits with SS Wall Mount Brackets</b>	
EC100	Distribution & Return Kit, 10' Complete, Open Top, w/Brkts
EC100C	Distribution & Return Kit, 10' Complete, Closed Top, w/Brkts
<b>Distribution &amp; Return Kits</b>	
EC110	Distribution & Return Kit, 10' Complete, Open Top
EC110C	Distribution & Return Kit, 10' Complete, Closed Top
<b>H-Channel</b>	
ECS109	H-Channel, for Stacked Systems, Stainless-Steel, 10'
<b>Pump</b>	
PP10492	Pump, Submersible, 1/2 HP, 69 GPM
<b>Pads - 45/15 Flutes with Edge Coat</b>	
ECP061236-4515EC	Cool Cell Pad, 6"D x 12"W x 36"H, 16 per Box
ECP061248-4515EC	Cool Cell Pad, 6"D x 12"W x 48"H, 8 per Box
ECP061260-4515EC	Cool Cell Pad, 6"D x 12"W x 60"H, 8 per Box
ECP061272-4515EC	Cool Cell Pad, 6"D x 12"W x 72"H, 8 per Box
<b>*30/30 flutes are available on special order</b>	

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### Tube Ventilation System

*Tube ventilation is a unique method that gently introduces fresh air into enclosed environments without introducing harmful cold drafts*



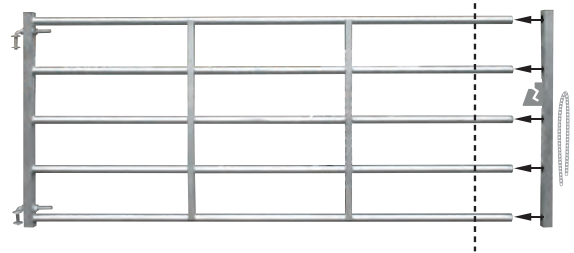
### VPX Panel Fans

*Heavy-duty, G90 galvanized, 18-gauge venturi with gusset support X-frame, provides superior strength and rigidity to minimize vibration*



### Steel Make-A-Gate

*Cut to length on the job site for a perfect fit every time*



HIGH PRESSURE FOG & COOLING



# FREESTALL SYSTEMS THAT ADAPT TO YOUR NEEDS

At J&D Manufacturing, it all began with two brothers bending loops for their father. Today, J&D manufactures not only loops, but complete stall systems that are designed to improve lunge room and increase your cows' comfort, cleanliness, and health. From the most basic Single Post Freestall System, to the more complex Adjustable Loop Suspended Freestall System, J&D has the perfect system to meet your needs and your budget. With the ability to easily adjust the cow spacing, system height, and individual loop height, you can give your cows the individualized comfort they deserve. In today's changing world, it's time to invest in a freestall system that can change with the needs of the herd.

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## Adjustable

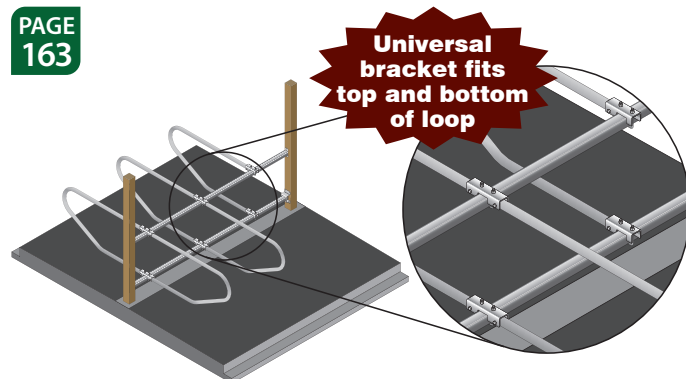
- Cow spacing for more cow comfort area
- Height when using the calf/heifer loop mounts



Don't forget  
my brush!

## ADJUSTABLE TWIN BEAM SUSPENDED FREESTALL SYSTEM

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## SPLIT RAIL SUSPENDED FREESTALL SYSTEM

A flexible and easy-to-install freestall system  
— at an affordable price.

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## SINGLE POST FREESTALL SYSTEM

With the benefit of being able to install after cement is poured and with no concern for post placement, this system allows for easy retrofitting without all the complications and adaptations needed with other systems.

# Freestall Quote Assistance Form

With so many options, quoting a freestall system and its components can get a bit overwhelming. We hope this form will make your job a bit simpler. This form is also available through the customer portal on [jdmfg.com](http://jdmfg.com).

**NOTE:** If building requires rows that have different stall styles, sizes, or spacing use a separate quote assistance sheet for each dissimilar row.

Project Name or ID: \_\_\_\_\_

Building ID: \_\_\_\_\_ Page: \_\_\_\_\_ of \_\_\_\_\_

Current or planned infrastructure

Material: \_\_\_\_\_

Spacing: \_\_\_\_\_

Row <input type="text"/>	Row <input type="text"/>	Row <input type="text"/>	Row <input type="text"/>
<input type="radio"/> Outside (single) <input type="radio"/> Head-to-Head (double) Length: _____	<input type="radio"/> Outside (single) <input type="radio"/> Head-to-Head (double) Length: _____	<input type="radio"/> Outside (single) <input type="radio"/> Head-to-Head (double) Length: _____	<input type="radio"/> Outside (single) <input type="radio"/> Head-to-Head (double) Length: _____

## Animal Size

- ☐ Calf  
☐ Heifer  
☐ Cow




## On-Center Stall Width:

## Loop Length




- ☐ 5'0"  
☐ 5'6"  
☐ 6'0"  
☐ 6'6"  
☐ 7'0"  
☐ 7'6"  
☐ 8'0"  
☐ 8'6"

## Style of Freestall System

### Split Rail Suspended Freestall System\* with

- ☐ 2 $\frac{3}{8}$ " - Ironside Loops   
☐ 2 $\frac{3}{8}$ " - Relax Fit Loops   
☐ 2 $\frac{3}{8}$ " - Dog Bone Loops 

### Cow - Adjustable Twin Beam Suspended Freestall System\* with




- ☐ 2 $\frac{3}{8}$ " - Ironside Loops   
☐ 2 $\frac{3}{8}$ " - Relax Fit Loops   
☐ 2 $\frac{3}{8}$ " - Dog Bone Loops 

### Calf/Heifer - Adjustable Loop System for Twin Beam Suspended Freestall\* with 1.9" Ironside Loops

- ☐ 22" On-Center  
☐ 24" On-Center  
☐ 26" On-Center  
☐ 28" On-Center  
☐ 34" On-Center



### Single Post Freestall System with

- ☐ 2 $\frac{3}{8}$ " - Ironside Loops   
☐ 2 $\frac{3}{8}$ " - Relax Fit Loops   
☐ 2 $\frac{3}{8}$ " - Dog Bone Loops 

### Post-less Freestall System with

- ☐ 2 $\frac{3}{8}$ " - Post-less Relax Fit Loops 

## Control Rail Options

### Control Rail Size

- ☐ 1.9" 11-Gauge  
☐ 2 $\frac{3}{8}$ " 10-Gauge

### Control Rail Brackets

- ☐ HF42A (1.9" control rail 1.9" loop)  
☐ HF42B (2 $\frac{3}{8}$ " control rail 2 $\frac{3}{8}$ " loop)  
☐ HF42AB (1.9" control rail 2 $\frac{3}{8}$ " loop)  
☐ HF43 (1.9" control rail 2 $\frac{3}{8}$ " loop)

### Set of End of Control Rail Brackets

- ☐ HF919V (1.9" control rail)  
☐ HF819HV2 (2 $\frac{3}{8}$ " control rail)

## Brisket System Options

### Adjustable Poly Brisket Tube

- ☐ Adjustable Stall Mount  
☐ Stationary Floor Mount  
☐ Standard Loop Mount Brisket System (lumber not included)  
☐ Poly Floor Mount Brisket Board

\*Head-to-head rows should be quoted with half the required loops having a 6" adjustment in length due to the off-center mounting, unless using HF756G/HF758G for mounting the rail for the Split Rail System or HF702TB for mounting the cow loops on the Twin Beam System, then all loops would setback about the same distance and can be the same length.

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# Adjustable Twin Beam Suspended Freestall System

J&D Manufacturing's popular Twin Beam Suspended Freestall System is now more adaptable than ever before! Cow spacing is fully adjustable along the Twin Beam tubes for more cow comfort. The Twin Beam height is fully adjustable when using the adjustable post and wall mounts. Then, customize your Twin Beam Suspended Freestall System further by choosing either Ironside, Relax Fit, or Dog Bone heavy-gauge cow loops or calf/heifer Ironside 1.9" loops with individual Adjustable Loop Twin Beam System.



►► **Proven Stronger** ◀◀  
*than comparable single beam systems*

## Features

- Loops suspend from 3"x 3" Twin Beams that are mounted to building columns or up-posts
- Choose either cow loop system or calf/heifer adjustable loop system

- There are no stall posts in the bedding to rust or corrode
- All concrete work can be done without obstructions, saving you money on labor and installation costs
- Stall system stays high and dry for corrosion resistance and longer life

- Adjustable cow spacing and Twin Beam height
- Expanded cow comfort area for lunging
- Compatible with any bedding system
- Head-to-head and single row installations

### Cow loop system

- Heavy-duty, 10-gauge, 2 $\frac{3}{8}$ " OD cow loops
- 3 loop styles to choose from (Ironside, Relax Fit, and Dog Bone)

### Calf/Heifer adjustable loop system

- Individually adjustable calf/heifer loop brackets
- 1.9" OD, 11-gauge Ironside loops with a full range of on center sizes

- Tight fitting  $\frac{1}{4}$ " steel control rail clamps with  $\frac{1}{2}$ " carriage bolts or our rubber cushion control rail clamp

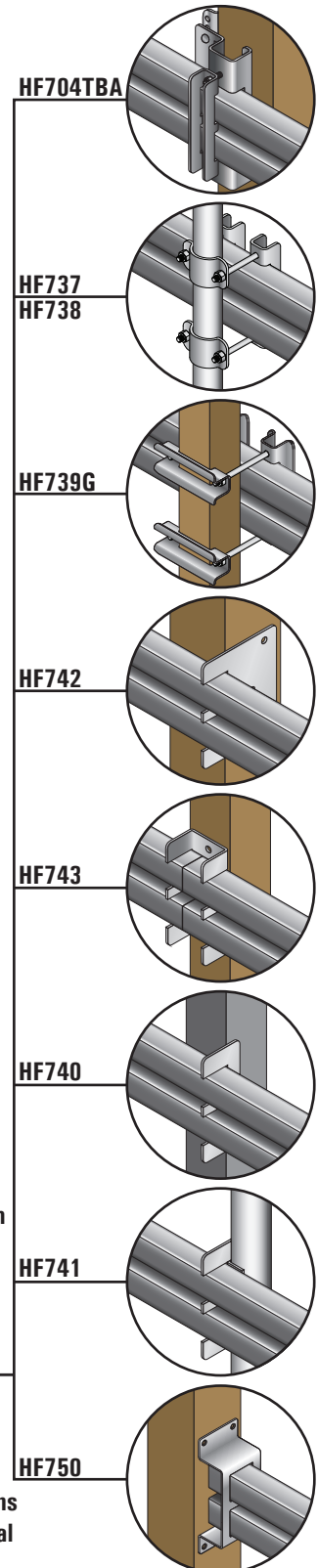
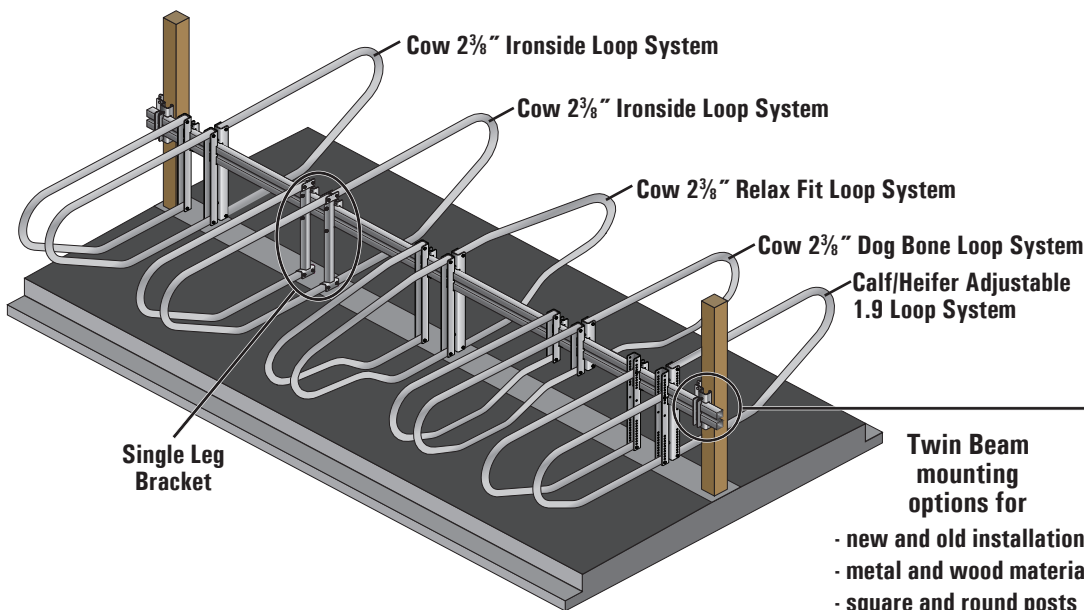
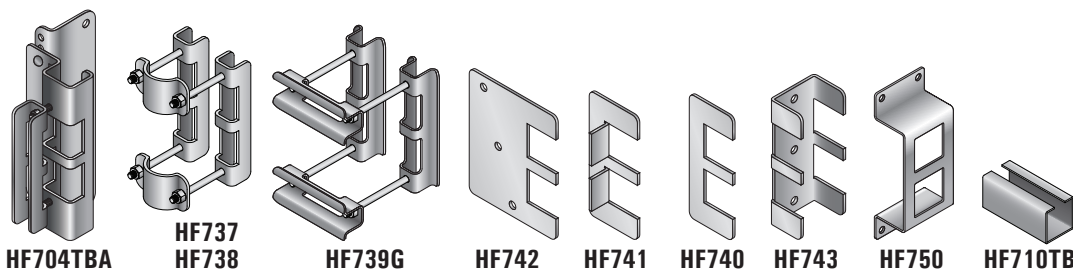
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# Adjustable Twin Beam Suspended Freestall System

## Twin Beam Rail, Mounts, & Splices

Part #	Description
<b>Beam</b>	
RPGA311288	Square Tube, 3" x 3" x 288", 11 ga. Galvanized
<b>Adjustable Twin Beam Mounts</b>	
HF704TBA	Mount, Twin Beam, to Post or Wall, Adj, 1/4" Steel, HDG, w/Hardware
HF737	Mount, Twin Beam, 4" Round Post, 1/4" Steel, HDG, with Hardware
HF738	Mount, Twin Beam, 3" Round Post, 1/4" Steel, HDG with Hardware
HF739G	Mount, Twin Beam, 4" Square Post, 8 ga. Galvanized
<b>Twin Beam Mounts</b>	
HF742	Mount, Twin Beam, Bolt to Square Post, Weld to Rail, 1/4" Steel Painted Silver
HF741	Mount, Twin Beam, Weld to 4" Round Post, Weld to Rail, 1/4" Steel Painted Silver
HF740	Mount, Twin Beam, Weld to Sq. Metal Post/Column, Weld to Rail, 1/4" Steel Painted Silver
HF743	Mount & Splice, Twin Beam, Bolt/Weld to Sq. Post, Weld to Rail, 1/4" Steel Painted Silver
HF750	Mount, Twin Beam, Bolt to Wall or Between Posts, 8 ga. Galvanized
<b>Beam Splices</b>	
HF710TB	Splice Sleeve, Interior, Weld to 3" x 3" Square Tube, 12 ga. Galvanized
HF743	Mount & Splice, Twin Beam, Bolt to Square Post, Weld to Rail, Silver

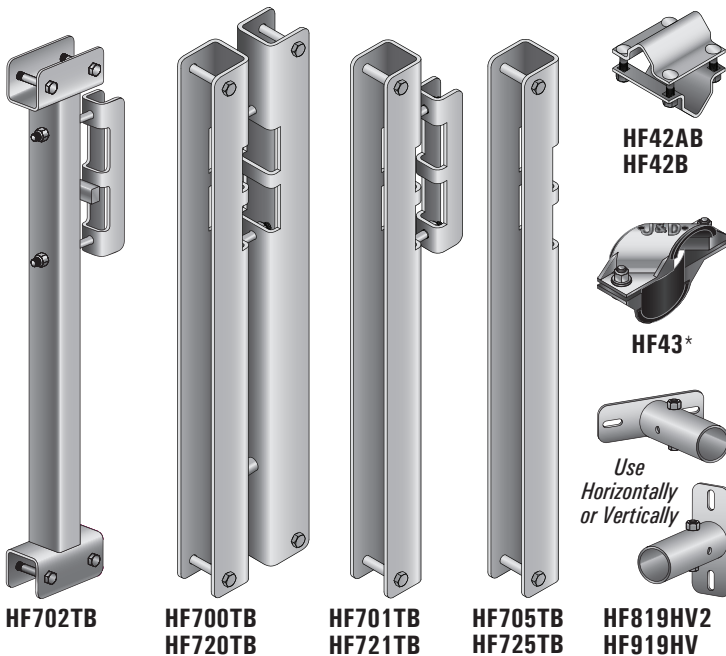
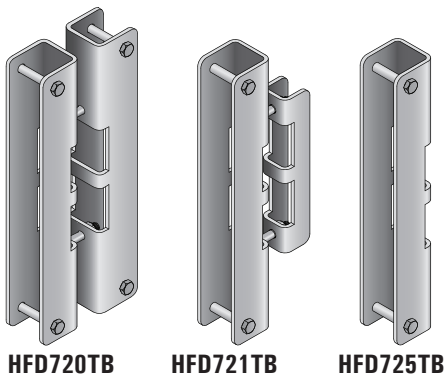


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# Cow 2<sup>3</sup>/<sub>8</sub>" OD Loop System for Twin Beam Suspended Freestall

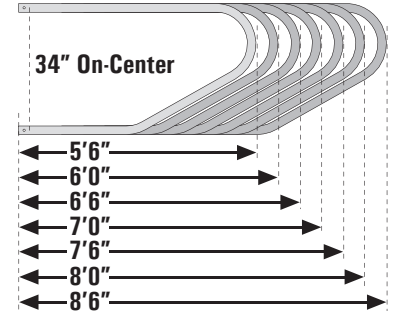
## Twin Beam Stall Mount Brackets

Part #	Descriptions
<b>Ironside Brackets</b>	
HF702TB	Bracket, Twin Beam, 2 <sup>3</sup> / <sub>8</sub> " Universal ( <i>Double or Single</i> ) Row, Ironside, Single Leg, HD Galv, w/Hrdw
HF700TB	Bracket, Twin Beam, 2 <sup>3</sup> / <sub>8</sub> " Double Row, Ironside, HD Galv, w/Hrdw
HF701TB	Bracket, Twin Beam, 2 <sup>3</sup> / <sub>8</sub> " Single Row, Ironside, HD Galv, w/Hrdw
HF705TB	Bracket, Twin Beam, 2 <sup>3</sup> / <sub>8</sub> " Wall/Post, Ironside, HD Galv, w/Hrdw
<b>Relax Fit Brackets</b>	
HF720TB	Bracket, Twin Beam, 2 <sup>3</sup> / <sub>8</sub> " Double Row, Relax Fit, HD Galv, w/Hrdw
HF721TB	Bracket, Twin Beam, 2 <sup>3</sup> / <sub>8</sub> " Single Row, Relax Fit, HD Galv, w/Hrdw
HF725TB	Bracket, Twin Beam, 2 <sup>3</sup> / <sub>8</sub> " Wall/Post, Relax Fit, HD Galv, w/Hrdw
<b>Dog Bone Brackets</b>	
HFD720TB	Bracket, Twin Beam, 2 <sup>3</sup> / <sub>8</sub> " Double Row, Dog Bone, HD Galv, w/Hrdw
HFD721TB	Bracket, Twin Beam, 2 <sup>3</sup> / <sub>8</sub> " Single Row, Dog Bone, HD Galv, w/Hrdw
HFD725TB	Bracket, Twin Beam, 2 <sup>3</sup> / <sub>8</sub> " Wall/Post, Dog Bone, HD Galv, w/Hrdw


**HF702TB**
**HF700TB  
HF720TB**
**HF701TB  
HF721TB**
**HF705TB  
HF725TB**
**HF819HV2  
HF919HV**

**HFD720TB**
**HFD721TB**
**HFD725TB**

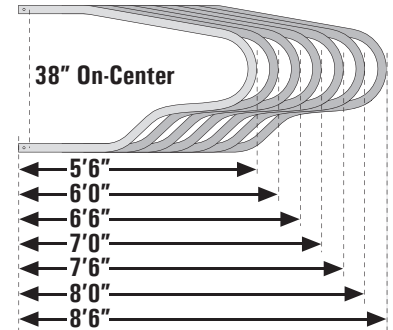
## 2<sup>3</sup>/<sub>8</sub>" OD, 10-Gauge Cow Loops Ironside Loops

Part#	Length
TF856-H	5'6"
TF860-H	6'0"
TF866-H	6'6"
TF800-H	7'0"
TF876-H	7'6"
TF880-H	8'0"
TF886-H	8'6"



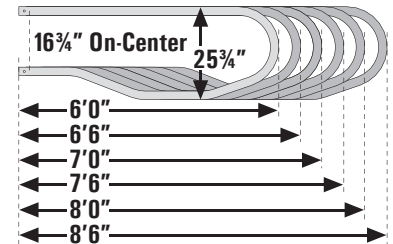
## Relax Fit Loops

Part#	Length
TFY856-H	5'6"
TFY860-H	6'0"
TFY866-H	6'6"
TFY870-H	7'0"
TFY876-H	7'6"
TFY880-H	8'0"
TFY886-H	8'6"



## Dog Bone Loops

Part#	Length
TFD860	6'0"
TFD866	6'6"
TFD800	7'0"
TFD876	7'6"
TFD880	8'0"
TFD886	8'6"



## Control Rail Clamps & Mounts

Part #	Description
<b>1.9" Control Rails, Clamps, and Mounts</b>	
TR1911	Rail, Control, 1.9"x288", 11 ga. Galvanized, Swaged
HF42AB	Clamp, Control Rail, 1.9" x 2 <sup>3</sup> / <sub>8</sub> ", 1/4" Steel, HD Galv., with 1/2" Bolts
HF43*	Clamp, Control Rail, 1.9" x 2 <sup>3</sup> / <sub>8</sub> ", HDG Ductile Cast Iron w/Rubber Cushion & Hrdw
HF919HV	Mount, (2) Horz/Vert, for 1.9" Pipe, HD Galv., with Hardware
<b>2<sup>3</sup>/<sub>8</sub>" Control Rails, Clamps, and Mounts</b>	
TR2375	Rail, Control, 2 <sup>3</sup> / <sub>8</sub> "x288", 10 ga. Galvanized, Swaged
HF42B	Clamp, Control Rail, 2 <sup>3</sup> / <sub>8</sub> " x 2 <sup>3</sup> / <sub>8</sub> ", 1/4" Steel, HD Galv., with 1/2" Bolts
HF819HV2	Mount, (2) Horz/Vert, for 2 <sup>3</sup> / <sub>8</sub> " Pipe, HD Galv., with Hardware

\*Must be retightened 3 months after initial install, and yearly thereafter

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Calf/Heifer Adjustable Loop System for Twin Beam Suspended Freestall

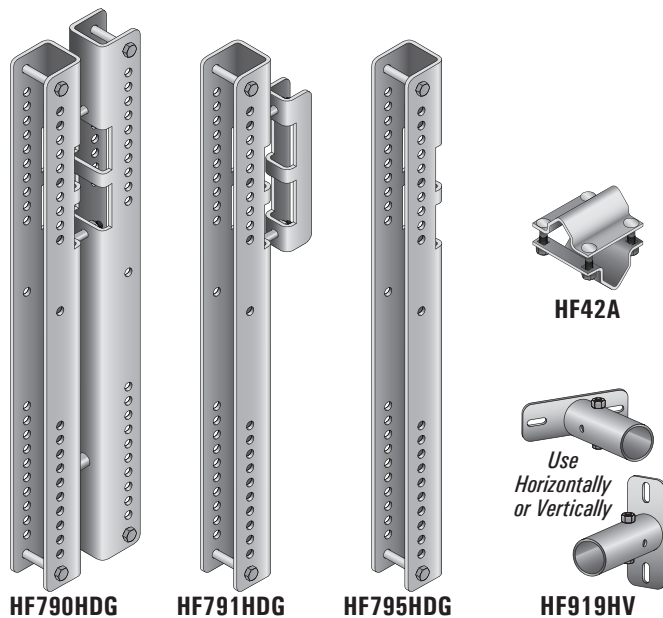
The Adjustable Loop Twin Beam System offers the same features as our standard Twin Beam system, but adds the flexibility of individual loop adjustments. Consider the possibilities of raising or lowering the height of individual rows or sections of stalls throughout your barn to fit your growing herd.



## Features

- Raise or lower individual rows or sections of stalls throughout your barn
- Choice of 5 on-center sizes and 6 loop lengths
- 1.9" loop brackets are hot dip galvanized

## Calf/Heifer Ironside Loops - 1.9" OD, 11 GA.



## 1.9" Ironside Loop Brackets for Twin Beam Stall System

Part #	Description
<b>Loop Brackets</b>	
HF790HDG	Bracket, TB Adj, 1.9" HDG, Double Row, Ironside, w/Hardware
HF791HDG	Bracket, TB Adj, 1.9" HDG, Single Row, Ironside, w/Hardware
HF795HDG	Bracket, TB Adj, 1.9" HDG, Wall/Post, Ironside, w/Hardware
<b>1.9" Control Rails, Clamps, and Mounts</b>	
TR1911	Rail, Control, 1.9"x288", 11 ga. Galvanized, Swaged
HF42A	Clamp, Control Rail, 1 5/8" or 1.9" x 1 5/8" or 1.9", HDG, w/Hardware
HF919HV	Mount, (2) Horz/Vert, for 1.9" Pipe, HD Galv., with Hardware

Part#	Length
<b>22" On-Center</b>	
TFC950-22	5'0"
TFC956-22	5'6"
TFC960-22	6'0"
TFC966-22	6'6"
TFC970-22	7'0"
TFC976-22	7'6"
<b>24" On-Center</b>	
TFC950-24	5'0"
TFC956-24	5'6"
TFC960-24	6'0"
TFC966-24	6'6"
TFC970-24	7'0"
TFC976-24	7'6"
<b>26" On-Center</b>	
TFC950-26	5'0"
TFC956-26	5'6"
TFC960-26	6'0"
TFC966-26	6'6"
TFC970-26	7'0"
TFC976-26	7'6"
<b>28" On-Center</b>	
TFC950-28	5'0"
TFC956-28	5'6"
TFC960-28	6'0"
TFC966-28	6'6"
TFC970-28	7'0"
TFC976-28	7'6"
<b>34" On-Center</b>	
TF956*	5'6"
TF960*	6'0"
TF966*	6'6"
TF970*	7'0"
TF976*	7'6"
TF980*	8'0"

\* 34" on-center Ironside Loops are compatible but use the outer most bolt holes, therefore, they are not adjustable

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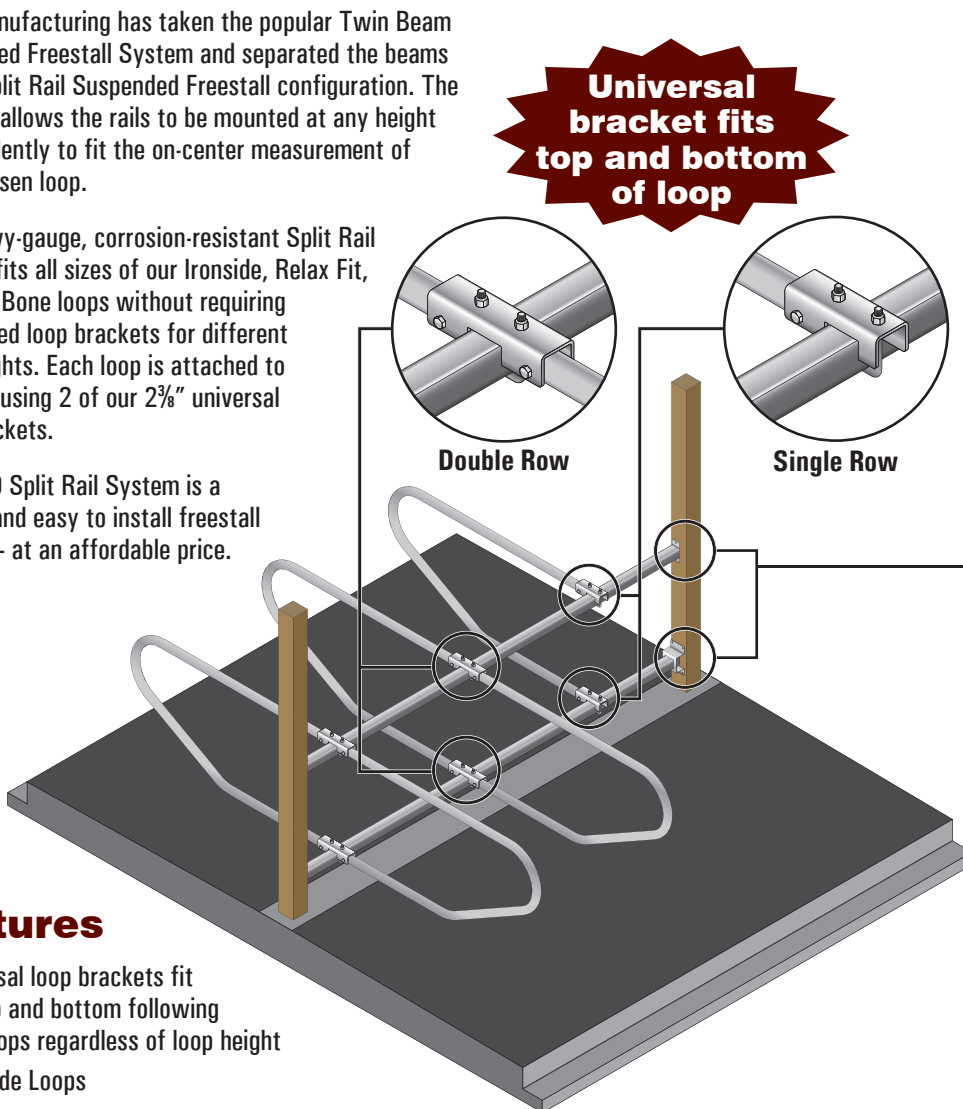


# Split Rail Suspended Freestall System

J&D Manufacturing has taken the popular Twin Beam Suspended Freestall System and separated the beams into a Split Rail Suspended Freestall configuration. The split rail allows the rails to be mounted at any height independently to fit the on-center measurement of your chosen loop.

The heavy-gauge, corrosion-resistant Split Rail System fits all sizes of our Ironside, Relax Fit, and Dog Bone loops without requiring specialized loop brackets for different loop heights. Each loop is attached to the rails using 2 of our 2 $\frac{3}{8}$ " universal loop brackets.

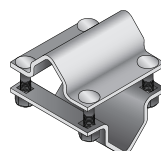
The J&D Split Rail System is a flexible and easy to install freestall system – at an affordable price.



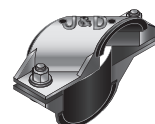
## Features

- Universal loop brackets fit the top and bottom following 2 $\frac{3}{8}$ " loops regardless of loop height
  - Ironside Loops
  - Relax Fit Loops
  - Dog Bone Loops
- Loops suspend from 3"x 3" Split Rails that can be mounted to building columns or up-posts
- All concrete work can be done without obstructions, saving you money on labor and installation costs
- Stall system stays high and dry for corrosion resistance and longer life
- No stall posts in the bedding to rust or corrode
- Increased side-to-side head room and lunge area
- Fully adjustable cow stall spacing
- Tight fitting  $\frac{1}{4}$ " steel control rail clamps with  $\frac{1}{2}$ " carriage bolts or our rubber cushion control rail clamp
- Compatible with any bedding system

**Great system  
for large  
outside rows**

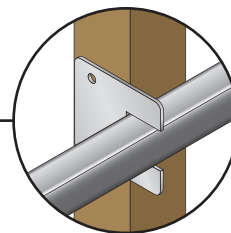


HF42AB  
HF42B

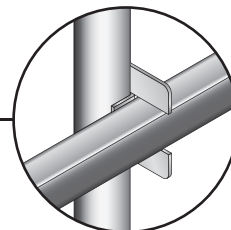


HF43\*

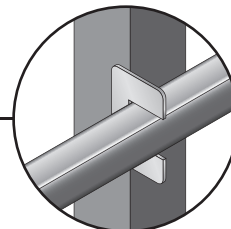
HF603  
HF604  
HF605



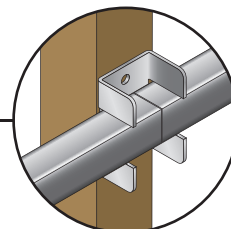
HF606



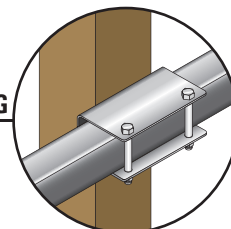
HF607



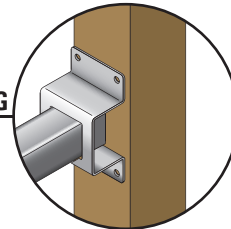
HF610  
HF611



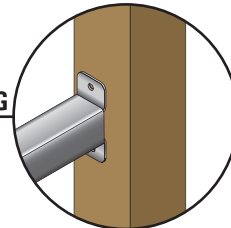
HF754G



HF756G

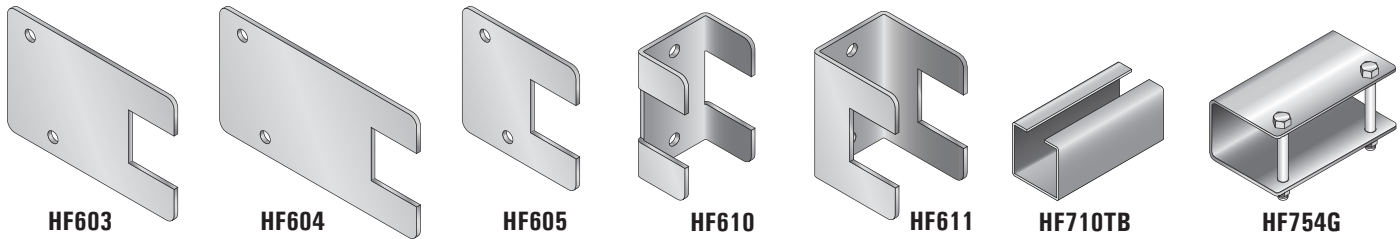


HF758G



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# Split Rail Suspended Freestall System



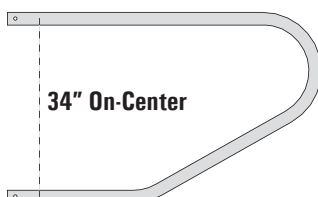
Part #	Description
<b>Rail</b>	
RPGA311288	Square Tube, 3" x 3", 288", 11 ga. Galvanized
<b>Rail Mounts &amp; Splices</b>	
HF603	Mount, Split Rail Face, Bolt to Square Post, Weld to Rail, Ext. for 6" Curb, 1/4" Pntd Slvr
HF604	Mount, Split Rail Face, Bolt to Square Post, Weld to Rail, Ext. for 8" Curb, 1/4" Pntd Slvr
HF605	Mount, Split Rail Face, Bolt to Square Post, Weld to Rail, 1/4" Painted Silver
HF606	Mount, Split Rail Face, Weld-On to 4" Round Post, Weld to Rail, 1/4" Painted Silver
HF607	Mount, Split Rail Face, Weld to Sq. Metal Post/Column, Weld to Rail, 1/4" Painted Slvr
HF610	Mount & Splice, Split Rail Face, Bolt/Weld to Sq. Post, Weld to Rail, 1/4" Painted Slvr
HF611	Mount & Splice, Split Rail Face, Bolt/Weld to Sq. Post, Weld to Rail, Ext., 1/4" Pntd Slvr
HF710TB	Splice Sleeve, Interior, for 3" x 3" Square Tube, 12 ga. Galvanized
HF754G	Mount, Split Rail Face, Bolt/Weld to Post, 8 ga. Galvanized with Hardware
HF756G	Mount, Split Rail, Bolt to Wall or Between Posts, Tube Exterior, 8 ga. Galvanized
HF758G	Mount, Split Rail, Bolt to Wall or Between Posts, Tube Interior, 8 ga. Galvanized
<b>Stall Brackets</b>	
HF600	Bracket, Split Rail Single Row, for 2 3/8" Loop, 1/4" HD Galv. with Hardware
HF601	Bracket, Split Rail Double Row, for 2 3/8" Loop, 1/4" HD Galv. with Hardware
<b>1.9" Control Rails, Clamps, &amp; Mounts</b>	
TR1911	Rail, Control, 1.9" x 288", 11 ga. Galvanized, Swaged
HF42AB	Clamp, Control Rail, 1.9" x 2 3/8", 1/4" Steel, HD Galv., with 1/2" Bolts
HF43*	Clamp, Control Rail, 1.9" x 2 3/8", HDG Ductile Cast Iron w/Rubber Cushion & Hardware
HF919HV	Mount, (2) Horz/Vert, for 1.9" Pipe, HD Galv., with Hardware
<b>2 3/8" Control Rails, Clamps, &amp; Mounts</b>	
TR2375	Rail, Control, 2 3/8" x 288", 10 ga. Galvanized, Swaged
HF42B	Clamp, Control Rail, 2 3/8" x 2 3/8", 1/4" Steel, HD Galv., with 1/2" Bolts
HF819HV2	Mount, (2) Horz/Vert, for 2 3/8" Pipe, HD Galv., with Hardware

\*Must be retightened 3 months after initial install, and yearly thereafter

## Cow Ironside Loops

2 3/8" OD  
10-Gauge

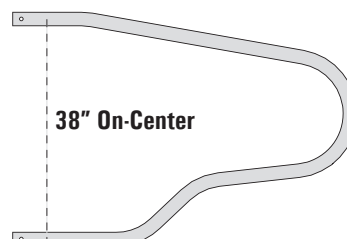
Part#	Length
TF856-H	5'6"
TF860-H	6'0"
TF866-H	6'6"
TF800-H	7'0"
TF876-H	7'6"
TF880-H	8'0"
TF886-H	8'6"



## Cow Relax Fit Loops

2 3/8" OD  
10-Gauge

Part#	Length
TFY856-H	5'6"
TFY860-H	6'0"
TFY866-H	6'6"
TFY870-H	7'0"
TFY876-H	7'6"
TFY880-H	8'0"
TFY886-H	8'6"



## Cow Dog Bone Loops

2 3/8" OD  
10-Gauge

Part#	Length
TFD860	6'0"
TFD866	6'6"
TFD800	7'0"
TFD876	7'6"
TFD880	8'0"
TFD886	8'6"



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# Single Post Freestall System

J&D Manufacturing's Single Post Relax Fit and Ironside Freestall Systems give today's progressive farmer the proven features of our heavy-duty loops with the flexibility of our weld-free clamp system. The single row or head-to-head clamp system allows you to easily adjust the height of the loops so your cows can have the comfort they deserve. In today's changing world, why not invest in a freestall system that can change with the needs of the herd?

## Features

### Weld-free Clamp System:

- Weld-free design for system flexibility
- ¼" steel galvanized clamps
- Cross clamps and tee clamps include loop mounting hole and power tension hole for maximum stability
- Tight fitting ¼" steel control rail clamps with labor saving ½" carriage bolts and nylock nuts
- Designed for single row or head-to-head installations on wood or steel posts

### Freestall Loops:

- Heavy-duty, 10-gauge, 2⅜" galvanized tubing
- Relax Fit, Ironside, or Dog Bone loop design
- Relax Fit and Ironside standard sizes 5'6", 6', 6'6", 7', 7'6", 8', and 8'6"

Relax Fit

Ironside

- Dog Bone standard sizes 6', 6'6", 7', and 7'6"

Dog Bone

### Control Rail:

- Available in 11 or 14-gauge, 1.9" galvanized tubing, or 10-gauge, 2⅜" galvanized tubing
- Swaged on the end for easy assembly

### Up-Post:

- Heavy-duty, 7-gauge, 2⅞" galvanized tubing
- Available in 60" to bolt on after concrete is poured or 72" to set in concrete allowing for 12" embedded and 60" protruding



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# Single Post Freestall System

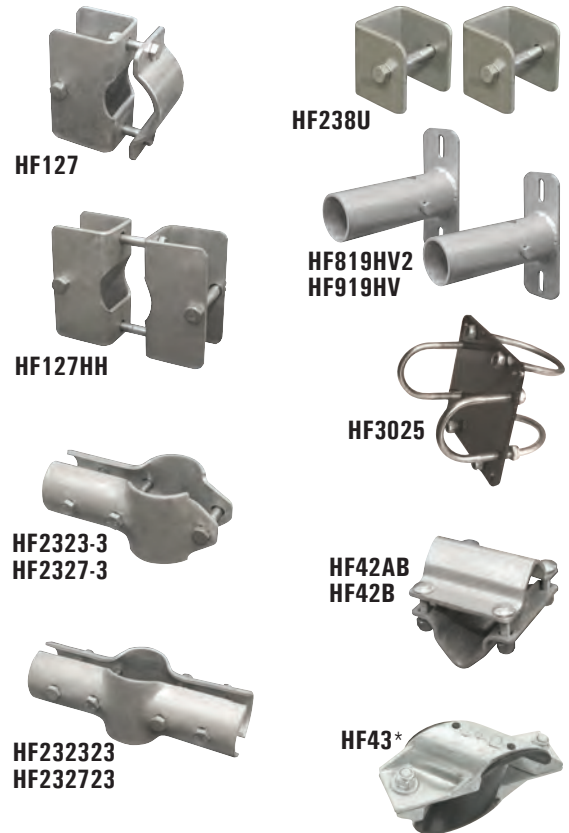
## Single Post Components

Part #	Description
<b>Weld Free Clamp Systems</b>	
HF127	Mount, U-Bracket, ¼" for 2⅝" Post, Horiz., Single Row, w/Hdwr, HDG
HF127HH	Mount, U-Bracket, ¼" for 2⅝" Post, Horiz., Double Row, w/Hdwr, HDG
HF2323-3	Clamp, Tee w/Flange, 2⅝" x 2⅝", w/Hardware, HDG
HF2327-3	Clamp, Tee w/Flange, 2⅝" X 2⅝", w/Hardware, HDG
HF232323	Clamp, Cross, 2⅝" X 2⅝" X 2⅝", w/Hardware, HDG
HF232723	Clamp, Cross, 2⅝" X 2⅝" X 2⅝", w/Hardware, HDG
HF238U	Bracket, U for Wood or Metal Post 2 ⅜", w/Hdwr, HDG (Set of 2)
HF3025	Clamp, U-Bolt Cross, 3" x 2½", w/Hardware, Painted
HF819HV2	Mount, Horizontal/Vertical Pipe, for 2⅝", w/Hdwr, HDG (Set of 2)
HF919HV	Mount, Horizontal/Vertical Pipe, for 1.9", w/Hdwr, HDG (Set of 2)
<b>Control Rail</b>	
TR1911	Control Rail, 1.9", 11 gauge, 288", Galvanized, Swaged
TR2375	Control Rail, 2⅝", 10 gauge, 288", Galvanized, Swaged
HF42AB	Clamp, Control Rail 1.9" x 2⅝", ¼" HDG, Steel, with ½" Bolts
HF42B	Clamp, Control Rail 2⅝" x 2⅝", ¼" Steel, HDG, with ½" Bolts
HF43*	2-Bolt Clamp, Control Rail 1.9" x 2⅝", Cast Iron, HDG, with ½" Bolts
<b>Up-Posts for Stall Systems</b>	
HF27860	Up-Post, 2⅝" X 59", Bolt Mount, HDG
HF27872	Up-Post, 2⅝" x 72" (60" above cement), Cement-In, Galvanized

\*Must be retightened 3 months after initial install, and yearly thereafter

See our Brisket Systems literature for all your brisket needs.

Bundle pricing is available on control rails.



## Galvanized Cow Loops - 2⅝" OD - 10-Gauge

### Ironside Loops

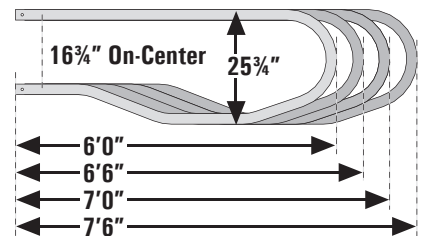
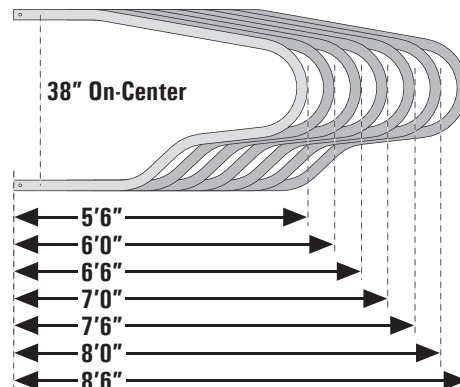
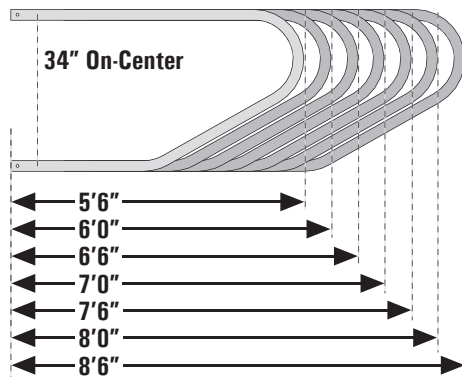
Part#	Length
TF856-H	5'6"
TF860-H	6'0"
TF866-H	6'6"
TF800-H	7'0"
TF876-H	7'6"
TF880-H	8'0"
TF886-H	8'6"

### Relax Fit Loops

Part#	Length
TFY856-H	5'6"
TFY860-H	6'0"
TFY866-H	6'6"
TFY870-H	7'0"
TFY876-H	7'6"
TFY880-H	8'0"
TFY886-H	8'6"

### Dog Bone Loops

Part#	Length
TFD860	6'0"
TFD866	6'6"
TFD800	7'0"
TFD876	7'6"



1.9" loops and components are available.  
Contact your J&D representative for more information.

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# Post-less Freestall System

J&D's Post-less Freestall System requires less hardware, provides increased headroom, and reduces air restrictions and animal injuries. With the benefit of being able to install after cement is poured and with no concern for post placement, this system allows for easy retrofitting without all the complications and adaptations needed with other systems.

## Features

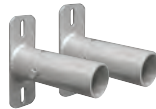
- No posts needed!
- Hot dip galvanized stall base and control rail clamps for maximum durability
- Increased forward and side-to-side headroom
- Less restrictions on airflow
- Loops engineered for increased cow comfort and safety
- Easy-to-install system for labor savings
- Tight fitting  $\frac{1}{4}$ " steel control rail clamps with labor saving  $\frac{1}{2}$ " carriage bolts and nylock nuts



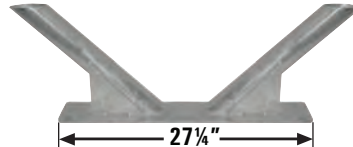
**HF42AB**  
**HF42B**



**HF43\***



**HF819HV2**  
**HF919HV**



**HF500**

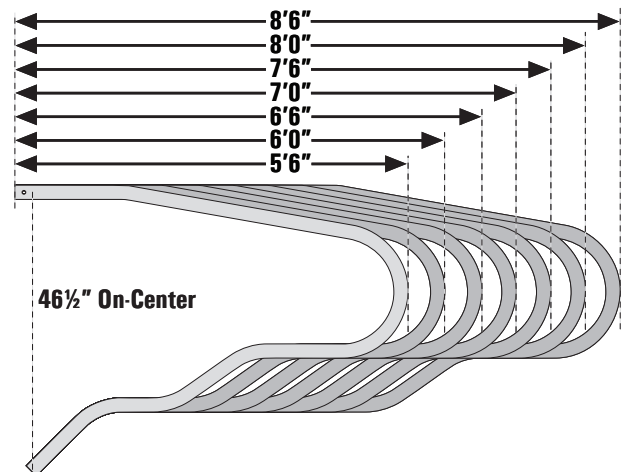


**HF501**



**HF510**

Part #	Descriptions
<b>Loops</b>	
TFP856	Loop, Post-Less Freestall, $2\frac{3}{8}$ ", 5'6", 10-gauge, Galvanized
TFP860	Loop, Post-Less Freestall, $2\frac{3}{8}$ ", 6', 10-gauge, Galvanized
TFP866	Loop, Post-Less Freestall, $2\frac{3}{8}$ ", 6'6", 10-gauge, Galvanized
TFP870	Loop, Post-Less Freestall, $2\frac{3}{8}$ ", 7', 10-gauge, Galvanized
TFP876	Loop, Post-Less Freestall, $2\frac{3}{8}$ ", 7'6", 10-gauge, Galvanized
TFP880	Loop, Post-Less Freestall, $2\frac{3}{8}$ ", 8', 10-gauge, Galvanized
TFP886	Loop, Post-Less Freestall, $2\frac{3}{8}$ ", 8'6", 10-gauge, Galvanized
<b>Control Rail</b>	
TR1911	Control Rail, 1.9", 11-gauge, 288", Galvanized, Swaged
TR2375	Control Rail, 2.375", 10-gauge, 288", Galvanized, Swaged
HF42AB	Clamp, Control Rail 1.9" x $2\frac{3}{8}$ ", $\frac{1}{4}$ " Steel, HDG, with $\frac{1}{2}$ " Bolts
HF42B	Clamp, Control Rail $2\frac{3}{8}$ " x $2\frac{3}{8}$ ", $\frac{1}{4}$ " Steel, HDG, with $\frac{1}{2}$ " Bolts
HF43*	2-Bolt Clamp, Control Rail 1.9" x $2\frac{3}{8}$ ", HDG, with $\frac{1}{2}$ " Bolts
HF819HV2	Mount, $2\frac{3}{8}$ " Horizontal/Vertical Pipe Mount, HDG, w/Hdwr (Set of 2)
HF919HV	Mount, 1.9" Horizontal/Vertical Pipe Mount, HDG w/Hdwr (Set of 2)
<b>Bases and Splice</b>	
HF500	Base, Post-Less Freestall, Head-to-Head, HDG
HF501	Base, Post-Less Freestall, Single Row, HDG
HF510	Clamp, Stall Splice, $2\frac{3}{8}$ ", HDG, w/ Hardware



\*Must be retightened 3 months after initial install, and yearly thereafter  
 See our Brisket System literature for all your brisket needs.

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

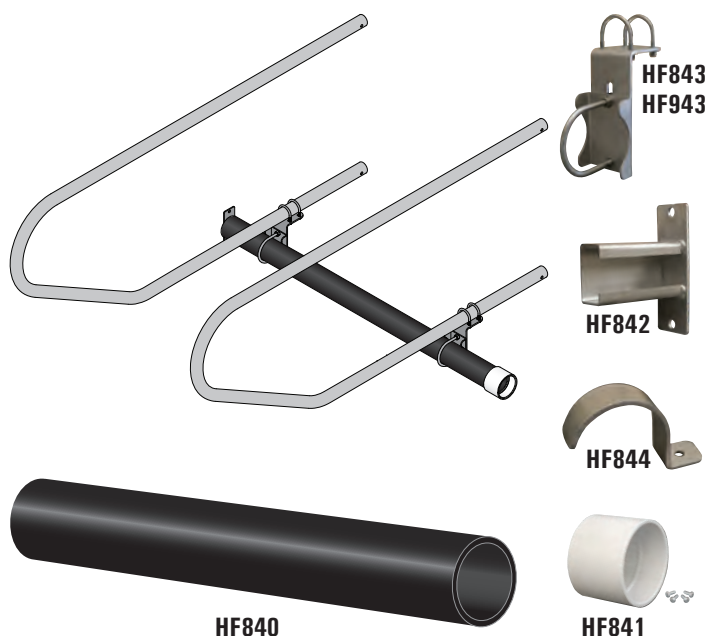
# Adjustable Poly Brisket Tube System

J&D Manufacturing's Poly Brisket Tube System is gentle on your cows. Unlike wood or concrete brisket systems, our poly tube has a round profile to prevent injuries. The adjustable stall mount bracket system moves easily up or down, forward or backward to provide the proper lunge room for various size animals.

## Features

- Durable, high-density, 4.5" OD polyethylene tubing
- Hot dip galvanized brackets and mounts for long life
- Adjustable stall mount or stationary floor mount brackets
- Stall mount bracket adjusts easily forward or backward to shorten or lengthen the freestall bed, and up or down to raise or lower the brisket tube
- Stall mount bracket mounts directly on the freestall. No concrete required!
- Stationary floor mount bracket fastens brisket tube to wood or concrete floor
- Round profile to prevent injury
- PVC splice kit with hardware to securely connect brisket tube lengths

Part#	Description
HF840	Brisket Tube, 4.5" OD, Black Poly, 20'
HF841	Splice Kit, End to End, for Poly Brisket Tube, White
HF842	Mount, Poly Brisket Tube to Wall, HDG
HF843	Bracket, for Poly Brisket Tube, Adjustable, 2 $\frac{3}{8}$ " Loops, HDG
HF943	Brkt, for Poly Brisket Tube, Adjustable, 1.9" Loops, Painted
HF844	Mount, Poly Brisket Tube Concrete Anchor, HDG



## Standard Loop Mount Brisket Bracket

J&D's Standard Brisket Mount Bracket is easy to install and allows you to easily adjust stall depth. Secure your lumber or lumber composite to the bracket to complete your brisket assembly.

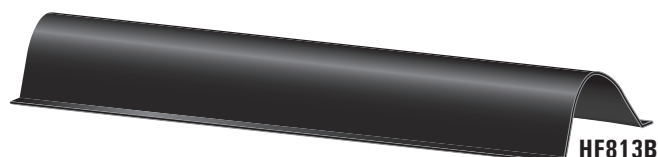
Part#	Description
HF810	Bracket, 2 $\frac{3}{8}$ " Loop, Brisket Mount, $\frac{1}{4}$ " Steel, Powder Coat
HF910	Bracket, 1.9" Loop, Brisket Mount, $\frac{1}{4}$ " Steel, Powder Coat



## Poly Floor Mount Brisket Board

J&D's Poly Brisket Board is rounded for cow comfort and safety. Permanently mount to concrete for years of carefree use. Interlocking ends make for easy installation and less parts.

Part#	Description
HF813B	Brisket Board, Floor Mount, Poly 4'



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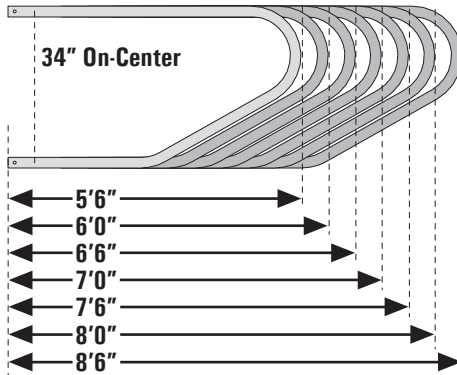


# Cow/Heifer/Calf Freestall Loops

A few factors go into choosing the best shape and size loop for your herd. Take into consideration your bedding and how you'll maintain the under stall area. Some shapes are more convenient when dealing with sand and straw. Also, know what the average size cow is that will be using the loops. Calves, heifers, and cows have different needs. Breeds vary in size. If you need assistance choosing the perfect loop for your operation, reach out to your local J&D reseller or contact J&D directly.

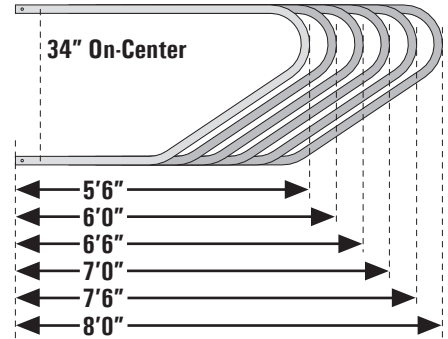
## Cow Ironside Loops - 2<sup>3</sup>/<sub>8</sub>" OD, 10 GA.

Part#	Length
TF856-H	5'6"
TF860-H	6'0"
TF866-H	6'6"
TF800-H	7'0"
TF876-H	7'6"
TF880-H	8'0"
TF886-H	8'6"



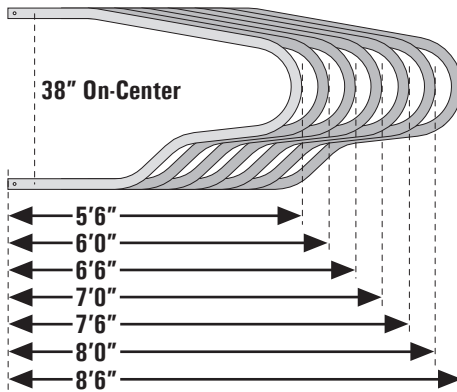
## Heifer Ironside Loops - 1.9" OD, 11 GA.

Part#	Length
TF956	5'6"
TF960	6'0"
TF966	6'6"
TF970	7'0"
TF976	7'6"
TF980	8'0"



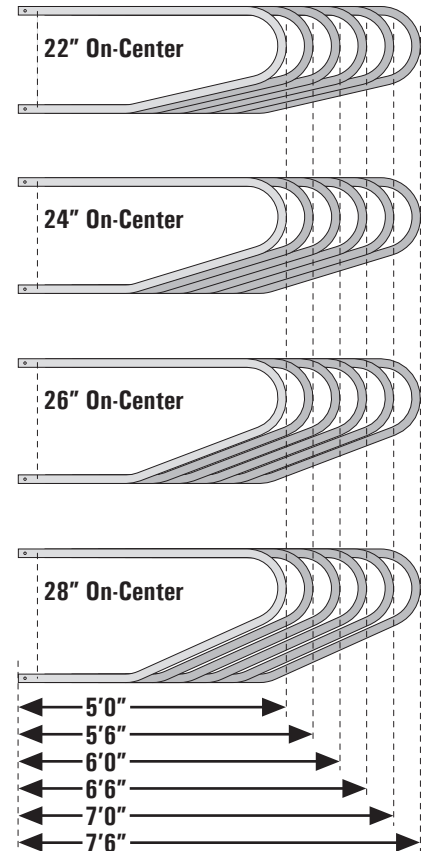
## Cow Relax Fit Loops - 2<sup>3</sup>/<sub>8</sub>" OD, 10 GA.

Part#	Length
TFY856-H	5'6"
TFY860-H	6'0"
TFY866-H	6'6"
TFY870-H	7'0"
TFY876-H	7'6"
TFY880-H	8'0"
TFY886-H	8'6"



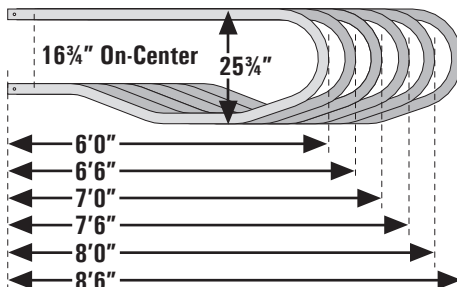
## Calf/Heifer Ironside Loops - 1.9" OD, 11 GA. Individually Adjustable Loop System Compatible

Part#	Length
<b>22" On-Center</b>	
TFC950-22	5'0"
TFC956-22	5'6"
TFC960-22	6'0"
TFC966-22	6'6"
TFC970-22	7'0"
TFC976-22	7'6"
<b>24" On-Center</b>	
TFC950-24	5'0"
TFC956-24	5'6"
TFC960-24	6'0"
TFC966-24	6'6"
TFC970-24	7'0"
TFC976-24	7'6"
<b>26" On-Center</b>	
TFC950-26	5'0"
TFC956-26	5'6"
TFC960-26	6'0"
TFC966-26	6'6"
TFC970-26	7'0"
TFC976-26	7'6"
<b>28" On-Center</b>	
TFC950-28	5'0"
TFC956-28	5'6"
TFC960-28	6'0"
TFC966-28	6'6"
TFC970-28	7'0"
TFC976-28	7'6"



## Cow Dog Bone Loops - 2<sup>3</sup>/<sub>8</sub>" OD, 10 GA.

Part#	Length
TFD860	6'0"
TFD866	6'6"
TFD800	7'0"
TFD876	7'6"
TFD880	8'0"
TFD886	8'6"



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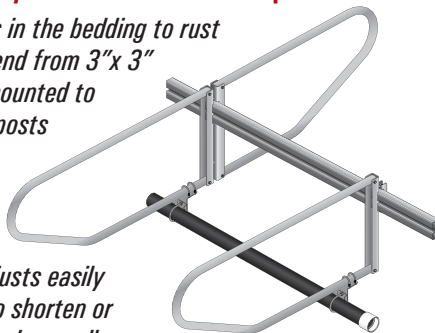
### VPX Panel Fans

*Heavy-duty, G90 galvanized, 18-gauge venturi with gusset support X-frame, provides superior strength and rigidity to minimize vibration*



### Adjustable Twin Beam Suspended Freestall System with Ironside Loops

*There are no stall posts in the bedding to rust or corrode. Loops suspend from 3"x 3" Twin Beams that are mounted to building columns or up-posts*



### Adjustable Poly Brisket Tube System

*Stall mount bracket adjusts easily forward or backward to shorten or lengthen the freestall bed as well as up or down to raise or lower the brisket tube*

### Hercules

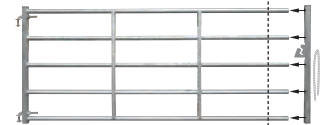
#### Heavy-Duty Adjustable Square Tube Superlock Panels

*The HEAVIEST headlocks on the market with adjustable neck openings*



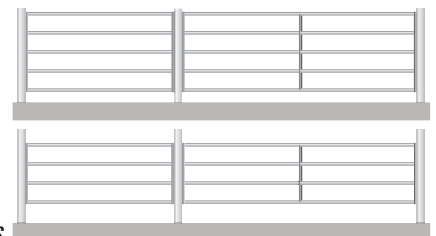
### Steel Make-A-Gate

*Cut to length on the job site for a perfect fit every time*



### Steel Make-A-Fence

*Weld the end channels to your up-posts, cut the horizontal tubing to the desired length, insert and weld tubes to end channels, weld center channel to tubes*





# YOUR HEADLOCK AND FEED PANEL HEADQUARTERS

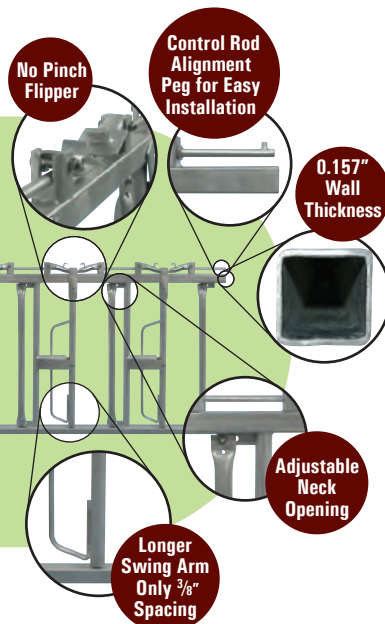
Your cows will eat more and produce more milk when they're able to move easily and comfortably. J&D Manufacturing's lineup of panels and headlocks are super easy to install and fully adjustable to grow with your herd. Our headlocks and feed panels are all made with the highest quality materials and come in a variety of options to handle the unique needs of your barn.

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**TALLER,  
ADJUSTABLE,  
AND HEAVIER**

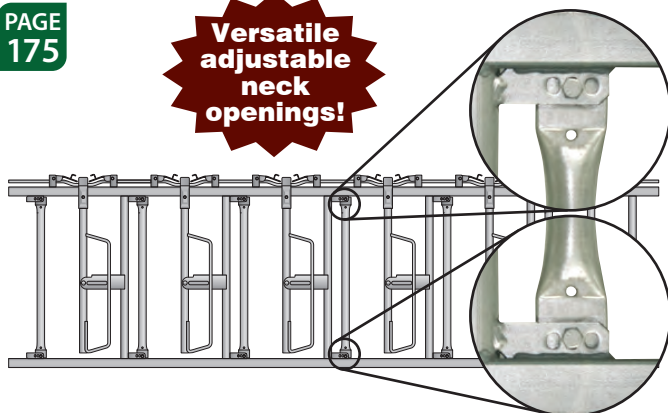
**THAN THE  
COMPETITION**



## HERCULES HEAVY-DUTY ADJUSTABLE SUPERLOCK PANELS

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**Versatile  
adjustable  
neck  
openings!**



### AUTO RELEASE ADJUSTABLE SQUARE TUBE SUPERLOCK PANELS

Cow and heifer models available. Full line of mounting brackets offer endless combinations to flush mount, face mount, or comfort tilt mount your headlock panels.

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### CALF AUTO RELEASE ADJUSTABLE SQUARE TUBE SUPERLOCK PANELS

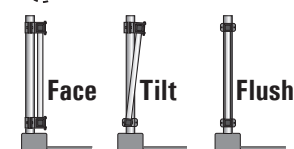
Panels grow with your calf. The adjustable neck opening provides an additional 1¼" of adjustment with the change of two bolts.

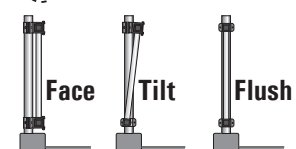


# Headlock Quote Assistance Form

With so many options, quoting headlocks and installation components can get a bit overwhelming. We hope this form will make your job a bit simpler. This form is available through the customer portal on [jdmfg.com](http://jdmfg.com).

Project Name or ID: \_\_\_\_\_  
 Building ID: \_\_\_\_\_ Page: \_\_\_\_\_ of \_\_\_\_\_

<b>Run Number or ID:</b>	<b># of Panels Per Run:</b>
<input type="text"/>	<input type="text"/>
<b>Animal Size</b>	<b>Up-post Type</b>
<input type="radio"/> Calf (300-600 lbs) <input type="radio"/> Heifer (600-900 lbs) <input type="radio"/> Cow (900-1,500 lbs) <input type="radio"/> Special Needs Cow/Heifer	<input type="radio"/> 2 7/8" Metal Round <input type="radio"/> 4" Metal Round <input type="radio"/> Wood <input type="radio"/> Metal
<b>Headlock Strength</b>	<b>Mounting Position</b>
<input type="radio"/> Standard <input type="radio"/> Heavy-Duty (Hercules)	<input type="radio"/> Face <input type="radio"/> Tilt <input type="radio"/> Flush
<b>On-Center Measurement Up-post to Up-post</b>	
<input type="radio"/> 8' <input type="radio"/> 10' <input type="radio"/> 12'* <i>* Warranty requires 12' headlocks be installed with a center support</i>	<b>Mounting Process</b>
<b>Center Supports</b>	<input type="radio"/> Bolt-On <input type="radio"/> Weld-On
	<b>End of Run Mounting</b>
	<input type="radio"/> Up-Post <input type="radio"/> Wall
	<b>Control Rod Connectors</b>
	<input type="radio"/> Bolt-On <input type="radio"/> Weld-On

<b>Run Number or ID:</b>	<b># of Panels Per Run:</b>
<input type="text"/>	<input type="text"/>
<b>Animal Size</b>	<b>Up-post Type</b>
<input type="radio"/> Calf (300-600 lbs) <input type="radio"/> Heifer (600-900 lbs) <input type="radio"/> Cow (900-1,500 lbs) <input type="radio"/> Special Needs Cow/Heifer	<input type="radio"/> 2 7/8" Metal Round <input type="radio"/> 4" Metal Round <input type="radio"/> Wood <input type="radio"/> Metal
<b>Headlock Strength</b>	<b>Mounting Position</b>
<input type="radio"/> Standard <input type="radio"/> Heavy-Duty (Hercules)	<input type="radio"/> Face <input type="radio"/> Tilt <input type="radio"/> Flush
<b>On-Center Measurement Up-post to Up-post</b>	
<input type="radio"/> 8' <input type="radio"/> 10' <input type="radio"/> 12'* <i>* Warranty requires 12' headlocks be installed with a center support</i>	<b>Mounting Process</b>
<b>Center Supports</b>	<input type="radio"/> Bolt-On <input type="radio"/> Weld-On
	<b>End of Run Mounting</b>
	<input type="radio"/> Up-Post <input type="radio"/> Wall
	<b>Control Rod Connectors</b>
	<input type="radio"/> Bolt-On <input type="radio"/> Weld-On

## Notes:

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# Hercules

## Cow Auto-Release Heavy-Duty Adjustable Square Tube Superlock Panels

No one can beat the Hercules on weight, strength, adjustability, and performance! The Hercules headlock panels from J&D Manufacturing are the HEAVIEST adjustable headlocks on the market today. Hercules panels include "beefed up" hardware for extra longevity.

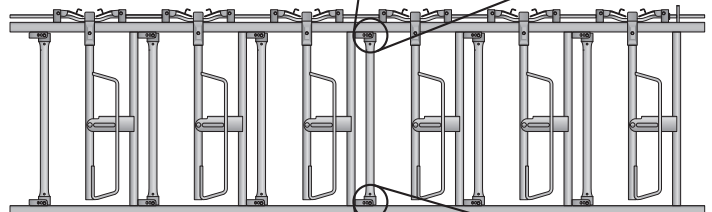
### Features

- The **HEAVIEST** adjustable headlocks on the market
- 7 and 10-gauge steel **HERCULES** construction
- $\frac{3}{8}$ " Grade 8 and Grade 5 bolts and nuts on main swing arm and yoke connections for added strength and durability
- Hardened bushings for bolt longevity
- Heavy-duty 2" x 2" square tubing on top and bottom rails
- Panels are hot dip galvanized **INSIDE** and **OUT** after welding for superior corrosion resistance
- Extra large rubber bumper on swing arm return to reduce noise
- Adjustable neck openings with 3 different width settings to fit your herd
- Easy-release safety latch with no loops or eye-holes to catch your finger in
- Hideaway control handle folds down flat to panel
- Wide head entry opening for easy access (*head opening size changes when neck opening is adjusted*)
- Lock in one or more animals and release the rest
- Swing arm is counterweighted to automatically return to the open position
- Overswing allows quick and safe release of a downed cow
- No noisy latch movement in open position
- Operate up to 200' of headlocks with a single control rod handle

**HEAVIEST  
on the  
market!**



**Versatile  
adjustable  
neck  
openings!**



Shown: Cow Side

### Hercules Adjustable Panels

Part#	Panel Length (actual)	Openings Per Panel	Adjustable Neck Opening Sizes	Panel Height	Panel Weight
TPQ8-ADJ-HD	8' (96")	4*	7 $\frac{3}{4}$ ", 8 $\frac{3}{8}$ ", 9"	40"	196 lbs
TPQ10-ADJ-HD	10' (120")	5*	7 $\frac{3}{4}$ ", 8 $\frac{3}{8}$ ", 9"	40"	240 lbs
TPQ12-ADJ-HD*	12' (144")	6*	7 $\frac{3}{4}$ ", 8 $\frac{3}{8}$ ", 9"	40"	286 lbs

\*One opening per cow recommended to prevent damage from cow budging  
 ~Warranty requires 12' headlocks be installed with a center support

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# J&D's Hercules

## Heavy-Duty Adjustable Square Tube Superlock Panel

### HEAVIER • TALLER • ADJUSTABLE

## J&D's Hercules Heaviest in the Industry

### 12' Panel Overview

	J&D Hercules	Competitor A	Competitor B
Weight	✓ <b>291 lbs</b>	<b>269 lbs</b>	<b>240 lbs</b>
Height	✓ 40"	38"	38"
Square Tube Thickness	✓ 0.157"*	0.136"*	0.107"*
Neck Opening	✓ Adjustable 7¾", 8⅝", 9"	Fixed 7½"	Fixed 7⅝"
Head Opening	✓ Adjustable	Fixed	Fixed

### Swingarm Assembly

	J&D Hercules	Competitor A	Competitor B
Weight	✓ 12 lbs	10 lbs	8.95 lbs
Tube Thickness	✓ 0.1277"*	0.1217"*	0.114"*
Yoke Thickness	✓ 0.1947"*	0.1870"*	0.150"*
Pivot Bolt	✓ 7/16" Carriage	7/16" Hex	5/16" Carriage
Bumper Size	✓ 1.28"	0.89"	1.103"

### Flipper Assembly

	J&D Hercules	Competitor A	Competitor B
Flipper Thickness	✓ 0.1887"*	0.1277"*	0.151"*
Flipper Bushing	✓ Hardened Steel	2-Piece Plastic	2-Piece Steel
Assembly Hardware	✓ 3/8"	5/16"	5/16"
Flipper Mounting Bracket Thickness	✓ 0.1867"*	0.1687"*	0.151"*

#### US Standard

Inches	Gauge
0.2031	6
0.1875	7
0.1719	8
0.1563	9
0.1406	10
0.1250	11
0.0194	12

\* Measurements based on caliper readings minus 0.0163", the average thickness of the hot dip galvanizing process

No Pinch Flipper

Control Rod Alignment Peg for Easy Installation

0.157" Wall Thickness

Adjustable Neck Opening

Longer Swing Arm Only 3/8" Spacing

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# Auto-Release Adjustable Square Tube Superlock Panels

J&D Manufacturing's popular Auto-Release Adjustable Square Tube Superlock Panel has three neck adjustment levels to give an additional 1¼" opening. J&D's full line of square tube mounting brackets offer endless combinations to flush mount, face mount, or comfort tilt mount your headlock panels.

Features include a hideaway control rod handle and an easy-release latch to keep your fingers clear during individual release.



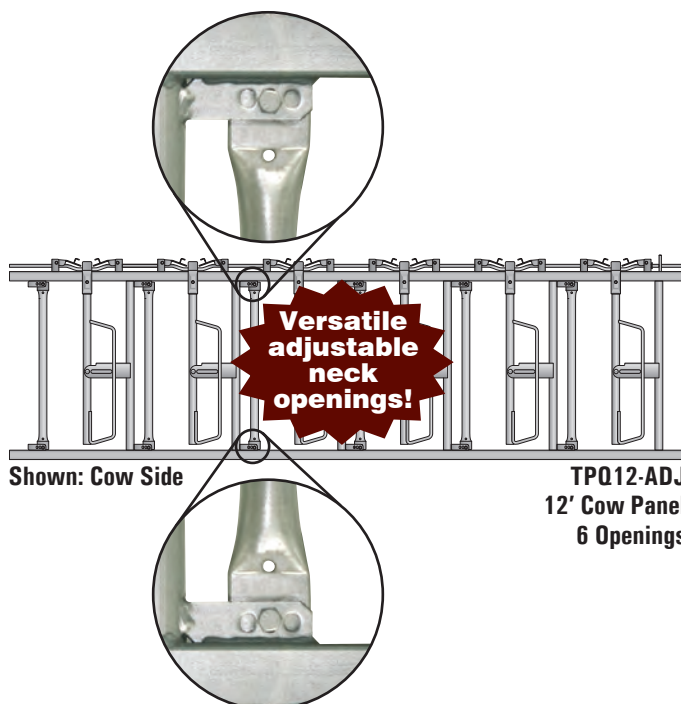
## Features

- Standard panels available in cow or heifer models
- 7½", 8", and 8¾" adjustable neck opening on cow panels  
6¼", 6⅞", and 7½" adjustable neck opening on heifer panels
- 22½" spacing between openings on cow panels  
19" spacing between openings on heifer panels
- 2" x 2" square tubing on top and bottom rails
- Panels are hot dip galvanized **INSIDE** and **OUT** after welding for superior corrosion resistance
- Easy-release safety latch with no loops or eye-holes to catch your finger in
- Hideaway control handle folds down flat to panel
- Wide head entry opening for easy access (*head opening size changes when neck opening is adjusted*)
- Lock in one or more animals and release the rest
- Swing arm is counterweighted to automatically return to the open position
- Overswing allows quick and safe release of a downed cow
- Rubber cushion on swing arm return to reduce noise
- No noisy latch movement in open position
- Operate up to 200' of headlocks with a single control rod handle

## Standard Adjustable Panels

Part#	Panel Length	# Panel Openings	Neck Opening Adjustable Sizes *	Panel Height	Panel Weight
<b>Cow Panels</b>					
TPQ8-ADJ	8'	4	7½", 8", 8¾"	40"	181 lbs
TPQ10-ADJ	10'	5	7½", 8", 8¾"	40"	200 lbs
TPQ12-ADJ~	12'	6	7½", 8", 8¾"	40"	248 lbs
<b>Heifer Panels</b>					
TPQH8-ADJ	8'	5	6¼", 6⅞", 7½"	40"	186 lbs
TPQH10-ADJ	10'	6	6¼", 6⅞", 7½"	40"	225 lbs
TPQH12-ADJ~	12'	7	6¼", 6⅞", 7½"	40"	263 lbs

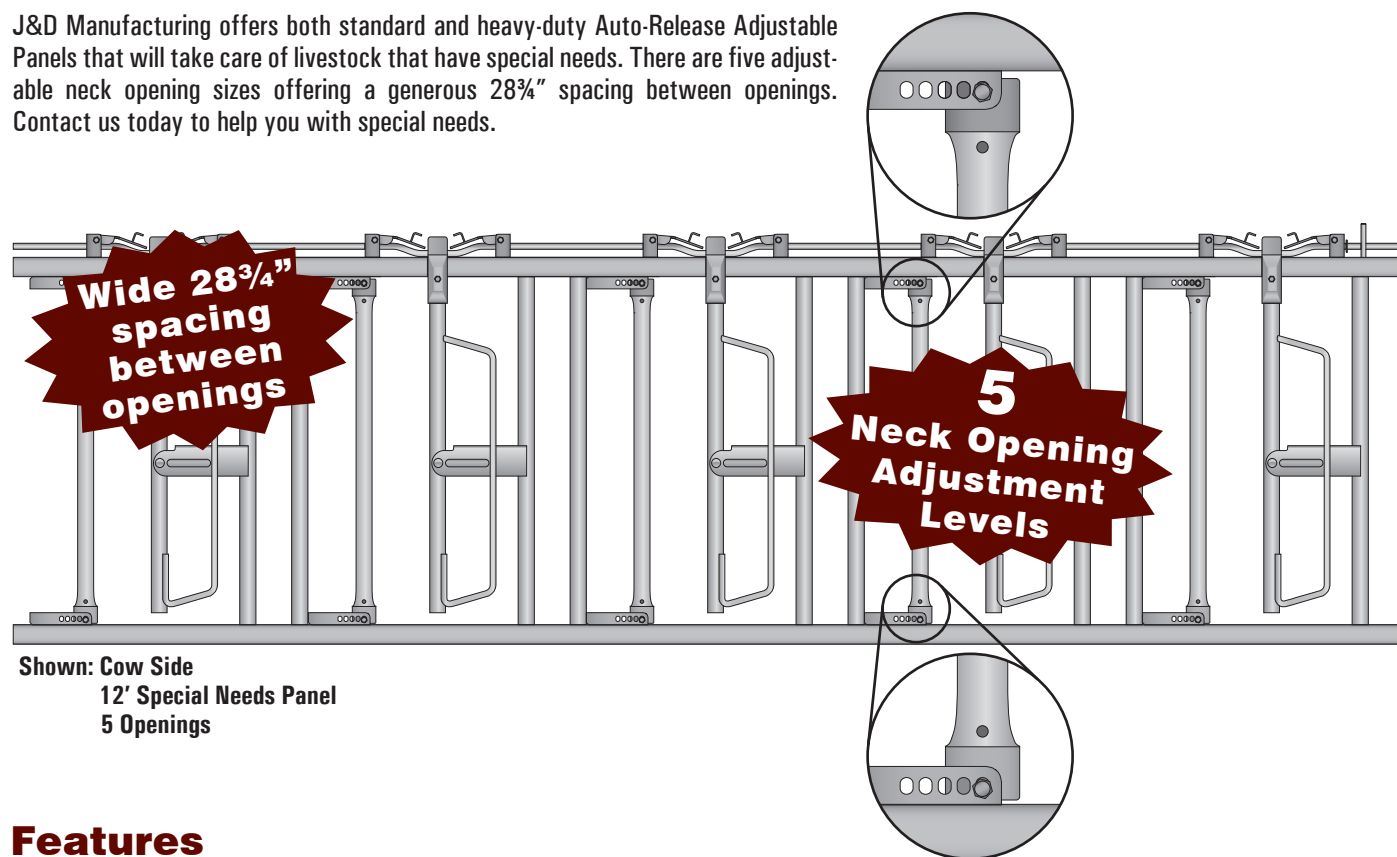
\*One opening per cow recommended to prevent damage from cow budging  
 ~Warranty requires 12' headlocks be installed with a center support



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# Special Needs Auto-Release Adjust. Square Tube Superlock Panels

J&D Manufacturing offers both standard and heavy-duty Auto-Release Adjustable Panels that will take care of livestock that have special needs. There are five adjustable neck opening sizes offering a generous 28¾" spacing between openings. Contact us today to help you with special needs.



Shown: Cow Side  
 12' Special Needs Panel  
 5 Openings

## Features

- Neck openings have 5 adjustment levels, 6", 6⅝", 7¼", 7⅞", and 8½", for even more flexibility
- Wider 28¾" spacing between openings
- Perfect for maternity pens and other special needs groups
- 2" x 2" square tubing on top and bottom rails
- Heavy Adjustable Panels are also available with all the same great features as Standard Adjustable Panels
- Panels are hot dip galvanized **INSIDE** and **OUT** after welding for superior corrosion resistance
- Easy-release safety latch with no loops or eye-holes to catch your finger in
- Hideaway control handle folds down flat to panel
- Wide head entry opening for easy access (*head opening size changes when neck opening is adjusted*)
- Lock in one or more animals with individual lock and release the rest
- Swing arm is counterweighted to automatically return to the open position
- Overswing allows quick and safe release of a downed cow
- Rubber cushion on swing arm return to reduce noise
- No noisy latch movement in open position
- Operate up to 200' of headlocks with a single control rod handle

## Special Needs Adjustable Panel

Part#	Description	Panel Length	# Panel Openings*	Neck Opening Adjustable Sizes	Panel Height	Panel Weight
TPQ12W-ADJ-HD~	Heavy-Duty Square Tube Adjustable Superlock Panel, HDG	12'	5	6", 6⅝", 7¼", 7⅞", 8½"	40"	285 lbs

\*One opening per cow recommended to prevent damage from cow budging  
 ~Warranty requires 12' headlocks be installed with a center support

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

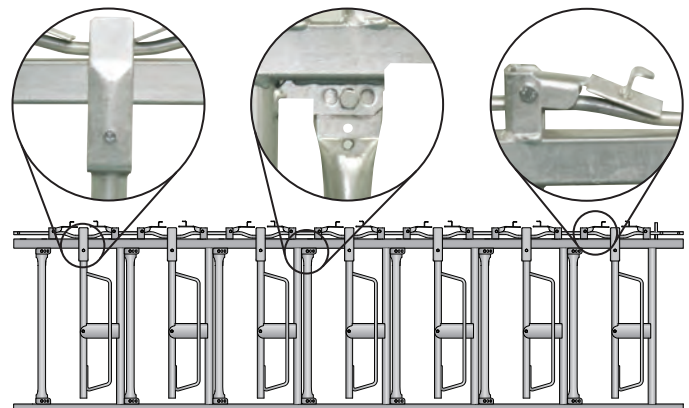
# Calf Auto-Release Adjustable Square Tube Superlock Panels

J&D Manufacturing's Adjustable Calf Superlock Panels grow with your calf. The adjustable neck opening provides an additional 1 1/4" of adjustment with the change of two bolts.

When combined with standard J&D square tube mounting brackets and accessories, installation couldn't be easier.

## Features

- 5"-6 1/4" wide adjustable neck opening (one opening per cow is recommended to prevent damage from cow budging)
- 2" x 2" square tubing on top and bottom rails
- Panels are hot dip galvanized **INSIDE** and **OUT** after welding for superior corrosion resistance
- Easy-release safety latch with no loops or eye-holes to catch your finger in
- Hideaway control handle folds down flat to panel
- Lock in one or more calves and release the rest
- Swing arm is counterweighted to automatically return to open position
- Rubber cushion on swing arm return to reduce noise
- No noisy latch movement in open position
- Overswing allows quick and safe release of a downed calf



Shown: Calf Side

TPQC10-ADJ

## Calf Adjustable Panels

Part#	Panel Length (Actual)	Openings per Panel*	Adjustable Neck Opening Sizes	Panel Height
TPQC8-ADJ	8' (96")	5	5", 5 5/8", 6 1/4"	32"
TPQC10-ADJ	10' (120")	7	5", 5 5/8", 6 1/4"	32"
TPQC12-ADJ~	12' (144")	8	5", 5 5/8", 6 1/4"	32"

\* One opening per cow recommended to prevent damage from cow budging

~ Warranty requires 12' headlocks be installed with a center support

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

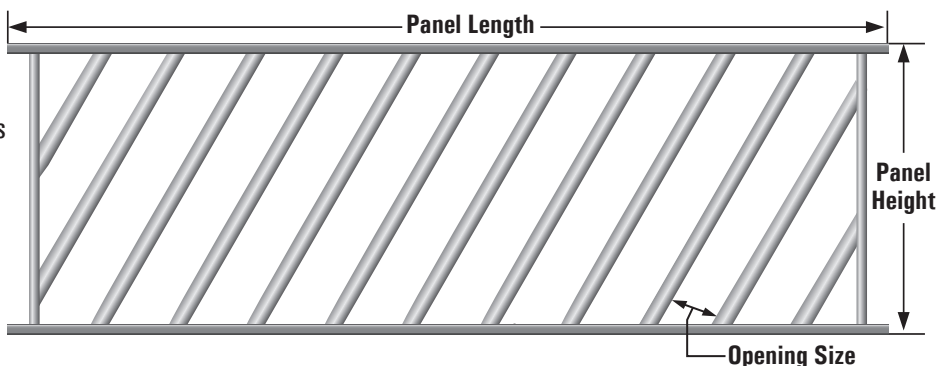


# Square Tube Slant Bar Feed Panel

Slant Bar Feed Panels are an excellent way to control your feed source. With the square tube rail design, J&D has made it faster and easier than ever to install your feed panels using our standard square tube mounting brackets for flush mount, face mount, or comfort tilt mount. Calf panels are available in 10' width, and cow or heifer panels are available in 10' or 12' width.

## Features

- Heavy-duty welded galvanized construction
- 2" x 2" square tube galvanized support rails
- Reduces feed waste by discouraging animals from dragging feed through panels
- Trains animals for headlock use
- Fast, easy installation using our standard square tube mounting accessories
- Flush mount, face mount, or comfort tilt mounting option



Part#	Panel Type	Panel Height	Opening Size	Recommended Bovine Weight*
<b>10' (120") Panels</b>				
TPS3212008	Calf	32"	8"	200-400 lbs
TPS4012009	Heifer	40"	9"	400-700 lbs
TPS4012010~	Heifer	40"	10"	700-1,000 lbs
TPS4012012~	Cow	40"	12"	1,000-1,500 lbs
<b>12' (144") Panels</b>				
TPS4014409	Heifer	40"	9"	400-700 lbs
TPS4014410~	Heifer	40"	10"	700-1,000 lbs
TPS4014412~	Cow	40"	12"	1,000-1,500 lbs

### Calf Panels

- 15-gauge, 1" diameter galvanized slant bars
- 32" high
- 8" neck opening
- Add a Stainless-Steel Feed Trough for more feed control

### Cow/Heifer Panels

- 11-gauge, 1<sup>5</sup>/<sub>8</sub>" diameter galvanized slant bars
- 40" high
- 9", 10", or 12" neck opening

~ Warranty requires 10' & 12' heifer and cow panels be installed with a center support

\* Recommended bovine weights are estimates only, based on industry experience and information gathered from various dairy and veterinary publications.

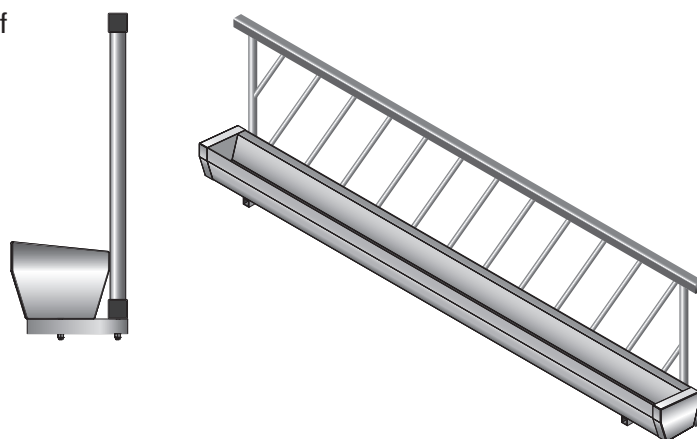
# Stainless-Steel Calf Feed Trough

Add a Stainless-Steel Calf Feed Trough to your J&D Square Tube Calf Panel for even more feed control. The slanted profile and raised feed lip helps contain feed to reduce costly waste and save you money. Manufactured with heavy-duty stainless-steel construction that's built to last!

## Features

- Heavy-duty welded, easy-to-clean stainless-steel construction
- Easy to clean and more sanitary than dumping feed on the floor
- Provides easy access to pellets and feed
- Raised 1" feed lip to help contain feed and reduce costly waste
- Two pre-drilled mounting holes in trough for easy installation using the included mounting brackets and hardware

Part#	Description
TPFT120SS	Feed Trough, Stainless-Steel, 10' with Mounting Hardware



### Mounting kit includes

- (3) square tube bottom support brackets
- (3) nut and bolt sets to secure brackets to feed panel
- (2) nut and bolt sets to secure brackets to trough

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# Square Tube Mounting Brackets & Installation Components for J&D Headlocks & Feed Panels

## Features

- For corrosion resistance, most bolt-on brackets are hot dip galvanized after components are welded together  
(Note: For corrosion protection, weld-on brackets should be painted after welding.)
- All included assembly bolts are paired with nyloc nuts  
(Additional mounting hardware may be needed.)
- Tilt brackets have a 4° tilt for comfort mounting

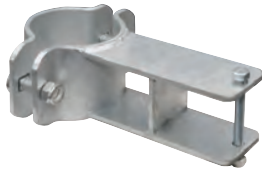
Part#	Description	Hercules Headlocks	Standard Headlocks	Spec. Needs Heavy-Duty	Calf Headlocks	Slant Bar Feed Panels
<b>Outer Mounting Brackets</b>						
HPS116	Bracket, Tilt, Bolt-On 2 7/8" Post, Painted, with Hardware	X	X	X	X	X
HPS118	Bracket, Tilt, Bolt-On 4" Post, Painted, with Hardware	X	X	X	X	X
HPS125	Bracket, Tilt, Weld-On 2 7/8" or 4" Post, HDG, with Hardware	X	X	X	X	X
HPS125F	Bracket, Face, Weld-On 2 7/8" or 4" Post, Painted, with Hardware	X	X	X	X	X
HPS127	Bracket, Tilt, Bolt-On 2 7/8" Post, HDG, with Hardware	X	X	X	X	X
HPS127F	Bracket, Face, Bolt-On, 2 7/8" Post, HDG, with Hardware	X	X	X	X	X
HPS130	Bracket, Tilt, Bolt-On 4" Post, HDG, with Hardware	X	X	X	X	X
HPS130F	Bracket, Face, Bolt-On 4" Post, HDG, with Hardware	X	X	X	X	X
HPS133	Bracket, Tilt, Bolt-On Wood Post, HDG, with Hardware	X	X	X	X	X
HPS133F	Bracket, Face, Bolt-On Wood Post, HDG, with Hardware	X	X	X	X	X
HPS134	Bracket, Tilt, Weld-On to Flat Surface, HDG, with Hardware	X	X	X	X	X
HPS134F	Bracket, Face, Weld-On to Flat Surface, HDG, with Hardware	X	X	X	X	X
<b>Inner Mounting Brackets</b>						
<b>1 3/4" OD Telescoping (not compatible with Hercules and "-HD" Panels)</b>						
HPS100	Bracket, Flush, Telescoping, Bolt-On or Weld-On to Flat, HDG		X		X	X
HPS126	Bracket, Flush, Telescoping, Weld-On 2 7/8" or 4" Post, HDG		X		X	X
HPS128	Bracket, Flush, Telescoping 1 Way, Bolt-On 2 7/8" Post, HDG, w/Hrdwr		X		X	X
HPS129	Bracket, Flush, Telescoping 2 Way, Bolt-On 2 7/8" Post, HDG, w/Hrdwr		X		X	X
HPS131	Bracket, Flush, Telescoping 1 Way, Bolt-On 4" Post, HDG, w/Hrdwr		X		X	X
HPS132	Bracket, Flush, Telescoping 2 Way, Bolt-On 4" Post, HDG, w/Hrdwr		X		X	X
<b>1 1/2" OD Telescoping - for Hercules &amp; "-HD" Panels</b>						
HPS150	Bracket, HD, Flush, Telescoping 1 Way, Bolt-On 2 7/8" Post, HDG, w/Hrdwr	X		X		
HPS151	Bracket, HD, Flush, Telescoping 1 Way, Bolt-On 4" Post, HDG, w/Hrdwr	X		X		
HPS152	Bracket, HD, Flush, Telescoping 2 Way, Bolt-On 2 7/8" Post, HDG, w/Hrdwr	X		X		
HPS153	Bracket, HD, Flush, Telescoping 2 Way, Bolt-On 4" Post, HDG, w/Hrdwr	X		X		
HPS154	Bracket, HD, Flush, Telescoping, Weld-On 2 7/8" or 4" Post, HDG	X		X		
HPS156	Bracket, HD, Flush, Telescoping, Bolt-On or Weld-On to Flat, HDG	X		X		
<b>Additional Installation Components</b>						
HPS103-HD	Ear Guard Assembly, with Hardware, Galvanized	X	X	X	X	
HPS104	Splice Insert, Standard Headlocks & Slant Bar Feed Panels, HDG		X		X	X
HPS105	Splice Insert, Hercules & "-HD" Headlock Panels	X		X		
HPS106	Connector, Control Rod, Weld-On, Zinc Finish	X	X	X	X	
HPS107	Connector, Control Rod, Bolt-On, HDG	X	X	X	X	
HP680	Single Locker, Standard & HD Square Tube Headlocks	X	X	X	X	
HPS110-ADJ	Handle, Control Rod, for Adjustable Panels, Painted	X	X	X	X	
HPS157~	Center Support, Panel, Bolt-On or Weld-On	X	X	X	X	X



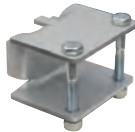
~Warranty requires 12' headlocks be installed with a center support

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# Square Tube Mounting Brackets & Installation Components for J&D Headlocks & Feed Panels



HPS116 (27/8", Tilt)  
HPS118 (4", Tilt)



HPS125 (Tilt)  
HPS125F (Face)



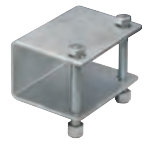
HPS127 (27/8", Tilt)  
HPS130 (4", Tilt)



HPS127F (27/8", Face)  
HPS130F (4", Face)



HPS133 (Tilt)  
HPS133F (Face)



HPS134 (Tilt)  
HPS134F (Face)

**Includes  
assembly  
hardware  
as shown**



HPS100 (Flush)



HPS126 (Flush)



HPS128 (27/8", Flush)  
HPS131 (4", Flush)



HPS129 (27/8", Flush)  
HPS132 (4", Flush)

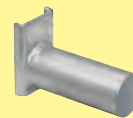
## Hercules & -HD Compatible



HPS150 (27/8", Flush)  
HPS151 (4", Flush)



HPS152 (27/8", Flush)  
HPS153 (4", Flush)



HPS154 (Flush)

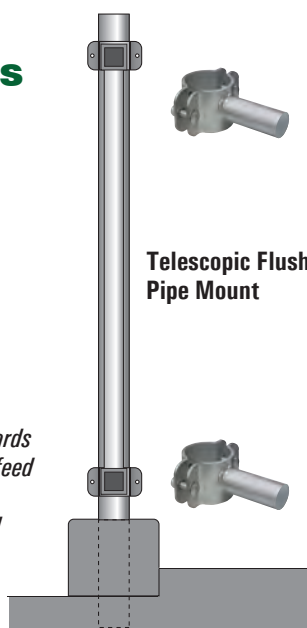


HPS156 (Flush)

## Mounting Recommendations

Headlocks should be installed with the J&D logo facing the feed aisle.

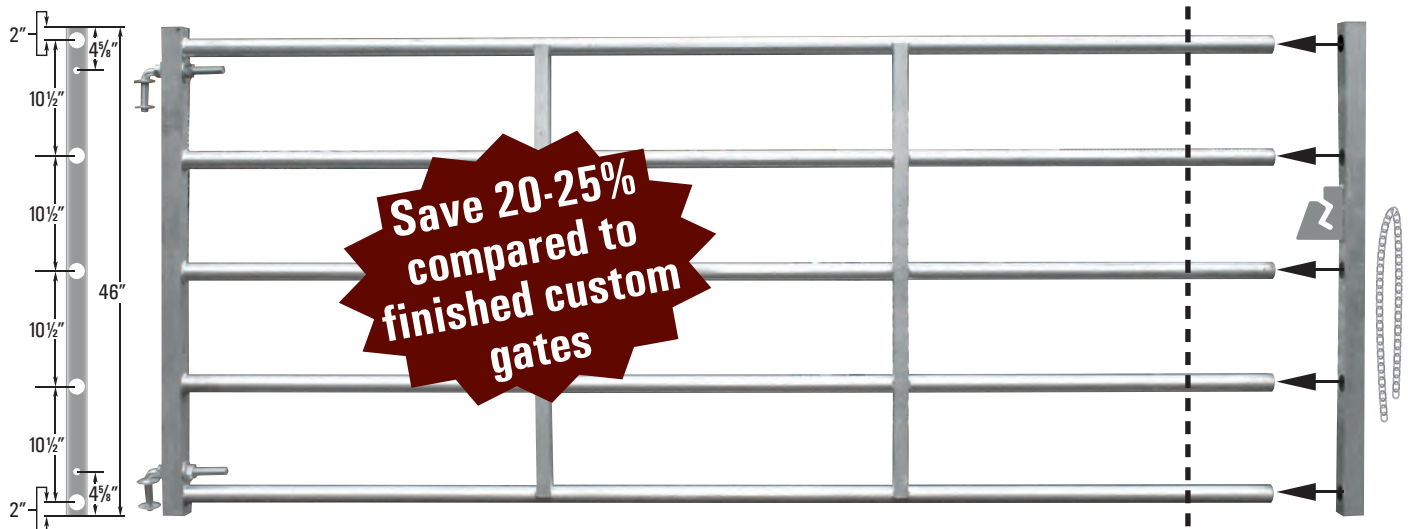
**NOTE:** Mounting post may be offset towards cow side to provide clearance for feed handling equipment on face mount applications. Amount of offset will depend on the size of the post and style of mounting bracket.





# Steel Make-A-Gate

It's now easier than ever to get a perfect fit every time with the Steel Make-A-Gate from J&D Manufacturing. Simply cut the horizontal tubing to the desired length and weld or bolt on the vertical support bar. No need to wait for custom fit gates.



## Features

- Cut to length on the job site for a perfect fit every time
- 5-bar gates are made from 1.9" tubing
- Top 3 bars are 14-gauge and bottom 2 bars are heavy-duty 11-gauge for added strength
- 2 3/8" square tube end supports
- 1 welded double center strap on 8' – 12' gates and 2 welded double center straps on 13' – 16' gates
- Includes HGF150 hinges, gate chain, and welded chain latch
- HGF150 standard hinges are adjustable to further level your gate after installation
- Numerous accessories available including latches, gate posts, and mounting hardware
- Add a Steel Slider Gate for even more flexibility to close two different size openings

**Cut to length  
on the job site for  
a perfect fit**

## Pass Thru

Using the pre-drilled HGF365 adjustable upright, it is now possible to create a custom gate pass. The HGF365 allows employees to pass through the gate without opening or closing, increasing productivity and reducing the chances of unintended animal release.

Part#	Description
MAGS04	4' Wide Steel Make-A-Gate
MAGS06	6' Wide Steel Make-A-Gate
MAGS08	8' Wide Steel Make-A-Gate
MAGS10	10' Wide Steel Make-A-Gate
MAGS12	12' Wide Steel Make-A-Gate
MAGS14	14' Wide Steel Make-A-Gate
MAGS16	16' Wide Steel Make-A-Gate
<b>Accessories</b>	
HGF365	Pass Thru, Vertical Adjustable Upright, for Steel Make-A-Gate

**Most sizes in stock for  
immediate shipment!**

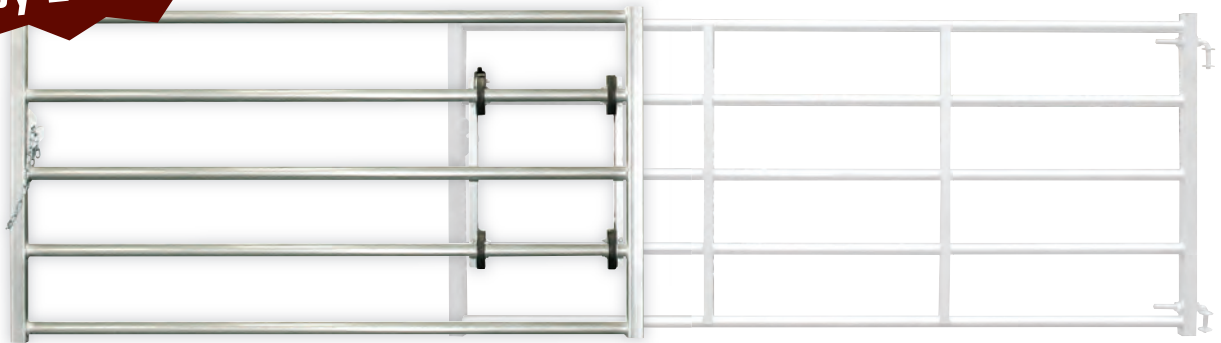
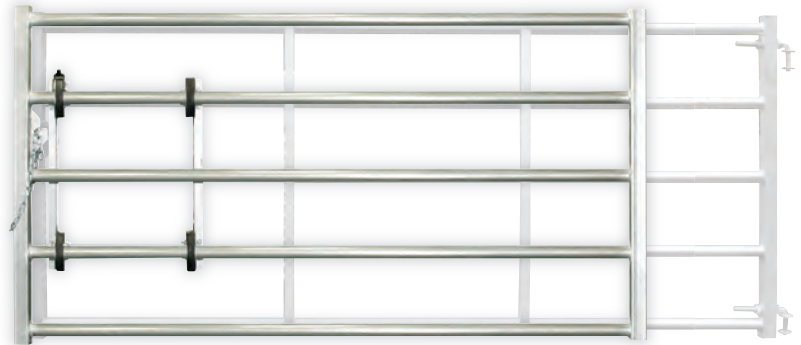


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# Steel Slider Gate

With J&D Manufacturing's Steel Slider Gate you can now use one adjustable gate to securely close two different size openings. Direct your herd with the swing of a gate through multiple alleys and lanes. J&D Slider Gates attach easily to J&D Steel Make-A-Gates or J&D Custom 5-Bar Steel Gates.

**Extend your  
Steel Make-A-Gate  
by 2' - 6'**



## Features

- Close two different size openings with one slider gate
- Durable black poly slider bushings for a smooth glide
- Heavy gauge 2-prong latch lock to secure the gate during swing
- Includes heavy-duty U-bolts to easily attach the Slider Gate to your standard J&D Make-A-Gate
- May attach to any other 1.9" round tube gate with horizontal rails at 21" OC
- 5-bar gates are made from 1.9" tubing
- Top 3 bars are 14-gauge and bottom 2 bars are heavy-duty 11-gauge for added strength
- 2 3/8" square tube end supports
- Includes gate chain and welded chain latch
- Requires 2' of overlap with stationary gate for mounting
- Numerous accessories available including latches, deadbolts, gate posts, and mounting hardware



## How to order:

**A** = Size of largest opening, rounded up to the nearest foot.

**Example:** If largest opening is 15' 8", use 16' for calculations.

**B** = Size of smallest opening, rounded up to the nearest foot.

This will be the size of your standard Make-A-Gate.

**Example:** If smallest opening is 9' 6", use 10' for calculations.

Order the MAGS10.

**2'** = Required overlap

**C** = Slider Gate size

**(A - B) + 2' = C**

**Example:** (16' - 10') + 2' = 8'

This example system would then require a MAGS10 and a MAGSLO8 to form a complete Slider Gate unit.

Part#	Description
MAGSLO4	Slider Gate, Steel, 5-Bar, 4' Wide w/Gate Chain (2' Extension)
MAGSLO5	Slider Gate, Steel, 5-Bar, 5' Wide w/Gate Chain (3' Extension)
MAGSLO6	Slider Gate, Steel, 5-Bar, 6' Wide w/Gate Chain (4' Extension)
MAGSLO7	Slider Gate, Steel, 5-Bar, 7' Wide w/Gate Chain (5' Extension)
MAGSLO8	Slider Gate, Steel, 5-Bar, 8' Wide w/Gate Chain (6' Extension)

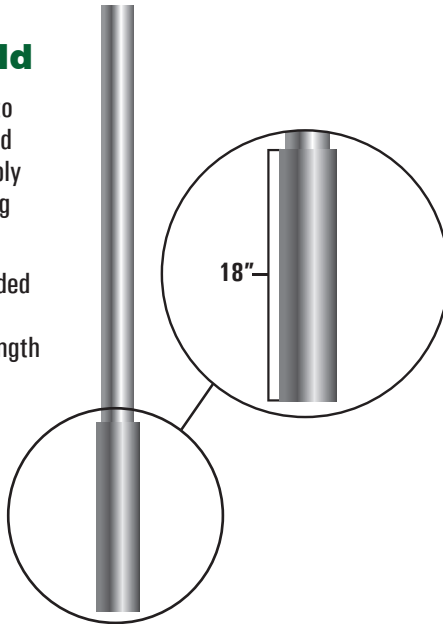
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# Galvanized Steel Up-Posts

## Cement-In Round with 18" Galvanized Steel Rust Shield

- Steel up-post is inserted into 18" steel rust shield, welded in place, then entire assembly is hot dip galvanized for long lasting corrosion resistance
- Added wall thickness provided by the rust shield increases rigidity, durability, and strength

Part #	Ht	OD	Ga
TCG66S	6'6"	4"	7

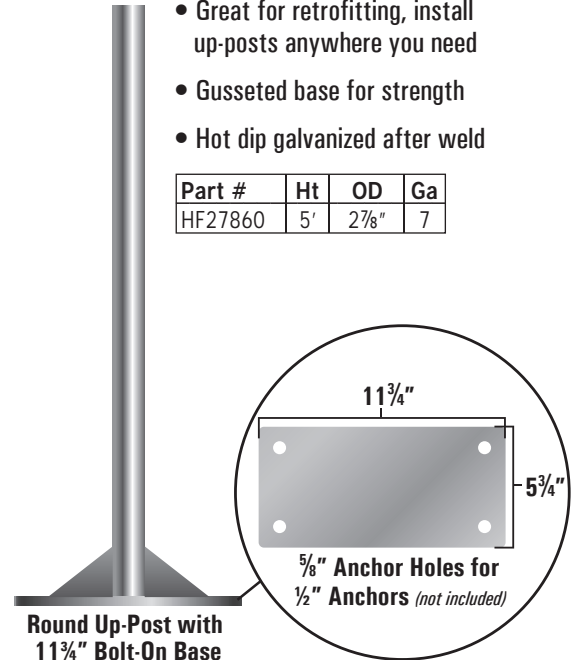


**Round Up-Post with 18" Galv Steel Rust Shield**  
(Hot Dip Galvanized after Welded)

## Surface Mount Round Bolt-On

- Great for retrofitting, install up-posts anywhere you need
- Gusseted base for strength
- Hot dip galvanized after weld

Part #	Ht	OD	Ga
HF27860	5'	2 $\frac{7}{8}$ "	7

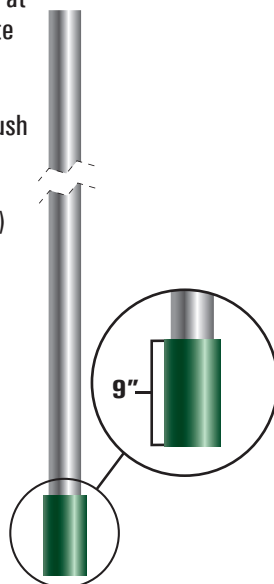


**Round Up-Post with 11 $\frac{3}{4}$ " Bolt-On Base**  
(Hot Dip Galvanized after Welding)

## Cement-In Round Up-Posts with 9" Poly Rust Shield

- Poly rust shield protects up-post at ground level from corrosive waste
- Up-post is galvanized plated
- Poly rust shields are mounted flush with the bottom of the up-post *(can be special ordered with rust shield mounted at a different height)*

Part #	Ht	OD	Ga
<b>2<math>\frac{7}{8}</math>"</b>			
TCG603P-6	6'	2 $\frac{7}{8}$ "	6
TCG663P-6	6'6"	2 $\frac{7}{8}$ "	6
TCG703P-6	7'	2 $\frac{7}{8}$ "	6
TCG763P-6	7'6"	2 $\frac{7}{8}$ "	6
TCG803P-6	8'	2 $\frac{7}{8}$ "	6
<b>4"</b>			
TCG60P-5	6'	4"	5
TCG66P-5	6'6"	4"	5
TCG70P-5	7'	4"	5
TCG76P-5	7'6"	4"	5
TCG80P-5	8'	4"	5



**Round Up-Post with 9" Poly Rust Shield**

## Cement-In Round Up-Posts

- Galvanized plated

Part #	Ht	OD	Ga
<b>2<math>\frac{7}{8}</math>"</b>			
HF27872	6'	2 $\frac{7}{8}$ "	6
TCG663-6	6'6"	2 $\frac{7}{8}$ "	6
TCG703-6	7'	2 $\frac{7}{8}$ "	6
TCG763-6	7'6"	2 $\frac{7}{8}$ "	6
TCG803-6	8'	2 $\frac{7}{8}$ "	6
<b>4"</b>			
TCG60-5	6'	4"	5
TCG66-5	6'6"	4"	5
TCG70-5	7'	4"	5
TCG76-5	7'6"	4"	5
TCG80-5	8'	4"	5



**Round Up-Post**

## Cement-In Square Up-Posts

- Hot dip galvanized

Part #	Ht	OD	Ga
TCG664SQ-HDG	6'6"	4"	7
TCG704SQ-HDG	7'	4"	7

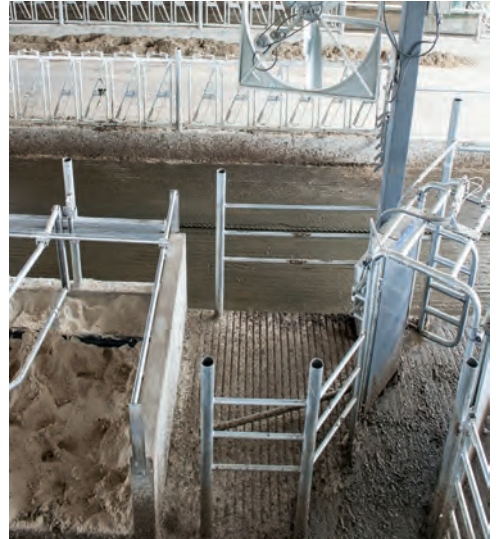


**Square Up-Post**

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# Galvanized Steel Tubing for Columns, Fencing, and Control Rails



## Standard Round Tubing with Swaged End

Part #	Length	OD	Gauge	Bundle Qty
TR1911	24'	1.9"	11	61
TR1914*	24'	1.9"	14	61
TR2375	24'	2 3/8"	10	37

\*TR1914 is not recommended for use as control rail

## Standard Round Tubing

Part #	Length	OD	Gauge	Bundle Qty
RPGT190011288	24'	1.9"	11	61
TCG213-6	21'	2 7/8"	6	18
TCG243-6	24'	2 7/8"	6	18
TCG21-5	21'	4"	5	12
TCG24-5	24'	4"	5	12

**Order by  
the Bundle  
and \$ave**

## Square Tubing

Part #	Length	OD	Gauge	Bundle Qty
RPGA407252-HDG	21'	4"	7	24

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# Steel Make-A-Fence

It's now easier than ever to get a perfect fit every time with the Steel Make-A-Fence from J&D Manufacturing.

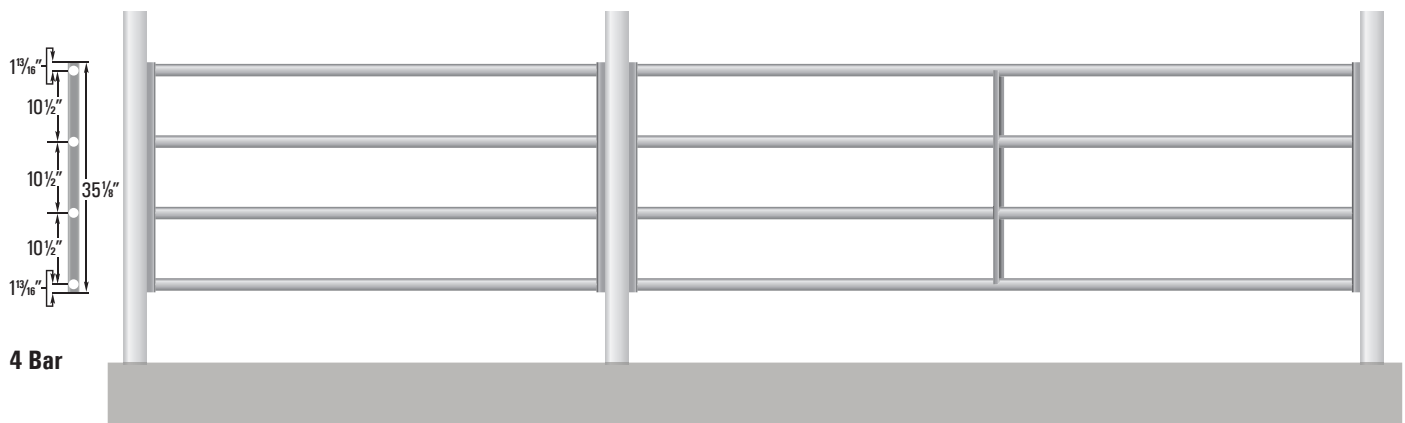
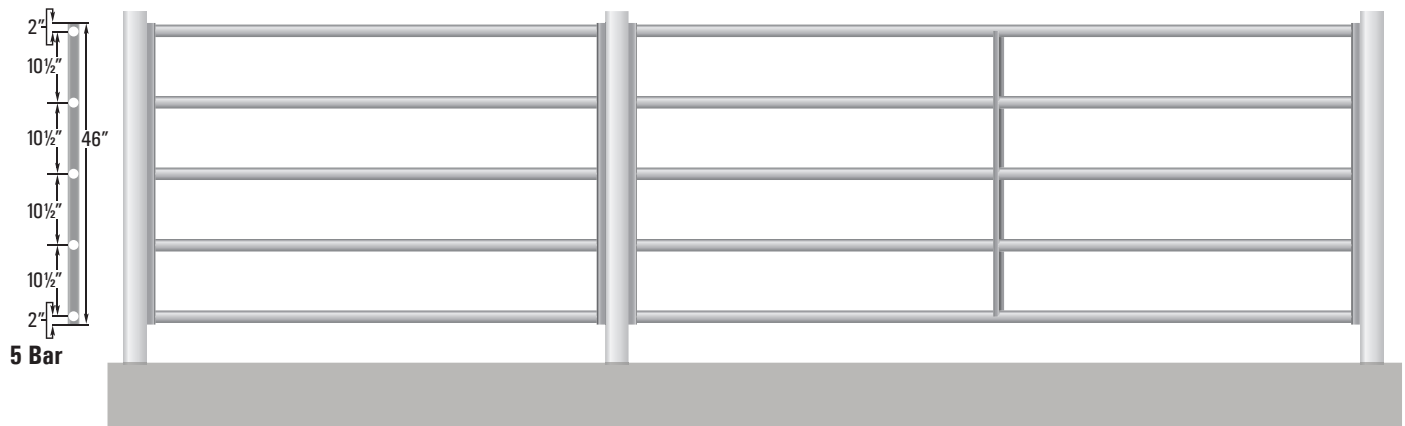
## Features

- 4 and 5-bar options available
- Heavy-duty, corrosion-resistant, 11-gauge, 1.9" galvanized tubing
- Swaged tubing option available to minimize waste
- Simply cut the horizontal tubing to the desired length and weld on the center channel support

**Available in  
easy-to-order kits,  
or customize to  
meet your needs**

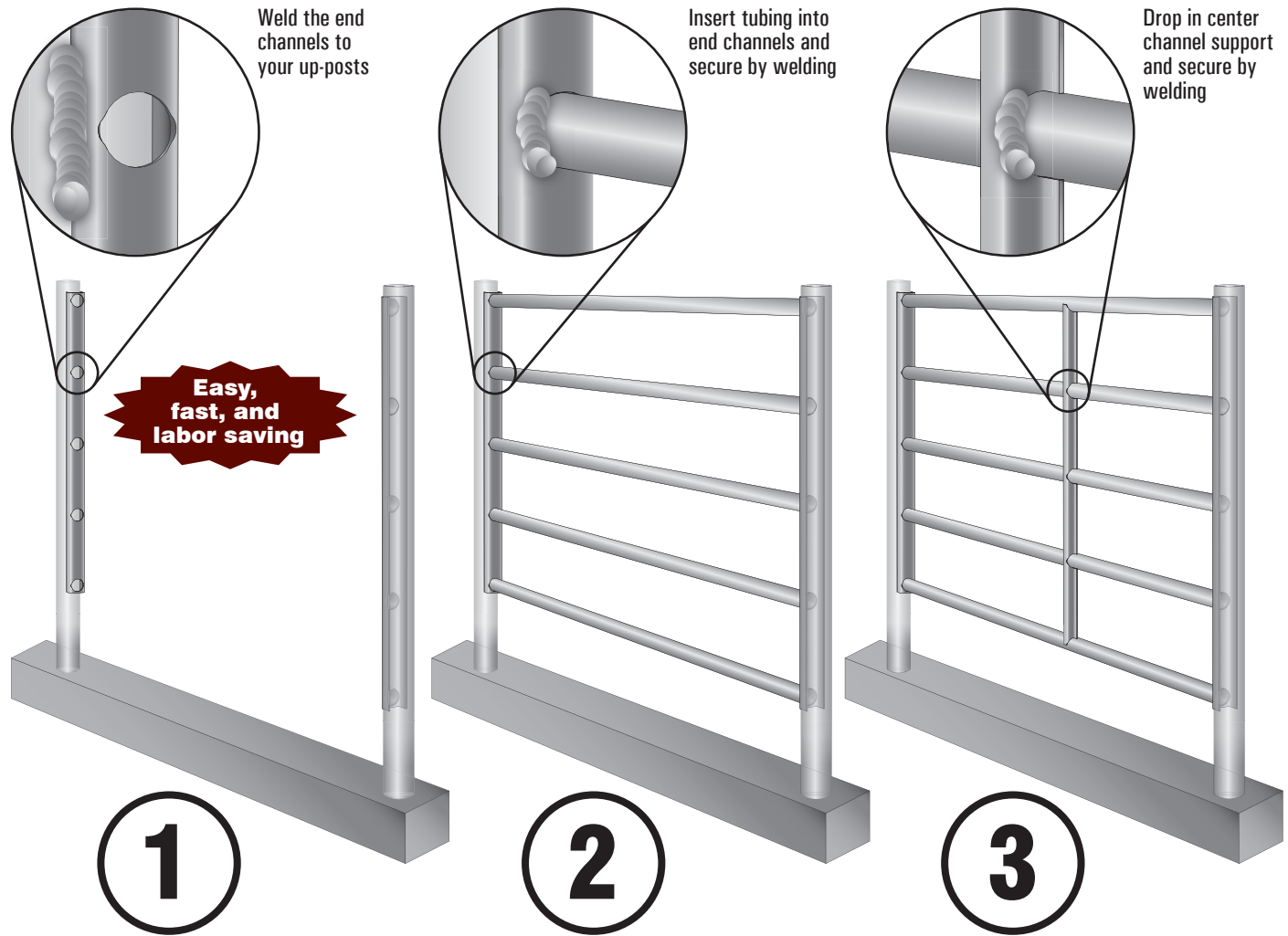


**CUSTOM BUILT QUALITY AT AN AFFORDABLE PRICE!**



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# Steel Make-A-Fence - Easy As 1, 2, 3



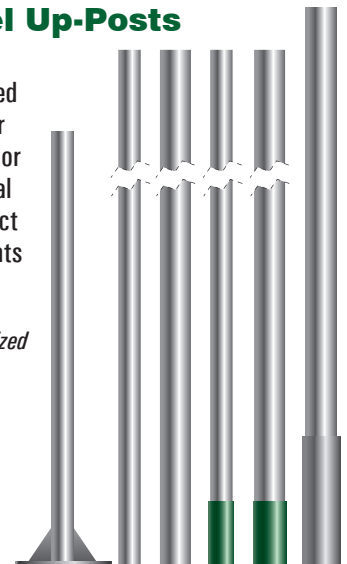
## Steel Make-A-Fence Kits & Components

Part #	Description
<b>5 Bar</b>	
MAFS-5KIT	Kit, Steel Make-A-Fence, 46", 5 Bar, Two Ends & One Center
MAFS-5END	End Channel, Steel Make-A-Fence, 46", 5 Bar
MAFS-5CTR	Center Channel Support, Steel Make-A-Fence, 46", 5 Bar
<b>4 Bar</b>	
MAFS-4KIT	Kit, Steel Make-A-Fence, 35", 4 Bar, Two Ends & One Center
MAFS-4END	End Channel, Steel Make-A-Fence, 35", 4 Bar
MAFS-4CTR	Center Channel, Steel Make-A-Fence, 35", 4 Bar
<b>Tubing</b>	
TR1911	Tubing, Swaged Galvanized, 1.9", 11 ga., 288"
RPGT190011288	Tubing, Non-Swaged Galvanized, 1.9", 11 ga., 288"

## Galvanized Steel Up-Posts

J&D Manufacturing has many heavy gauge galvanized up-post options available for your fencing needs. 2.875" or 4" outside diameter, optional rust shields to further protect your tubing from the elements and even a bolt on option.

See our catalog page on Galvanized Steel Columns & Up-Post for all our up-post options.



## Installation Recommendations

- 9' or larger span requires a center channel support
- 16' or larger span requires 2 center channel supports

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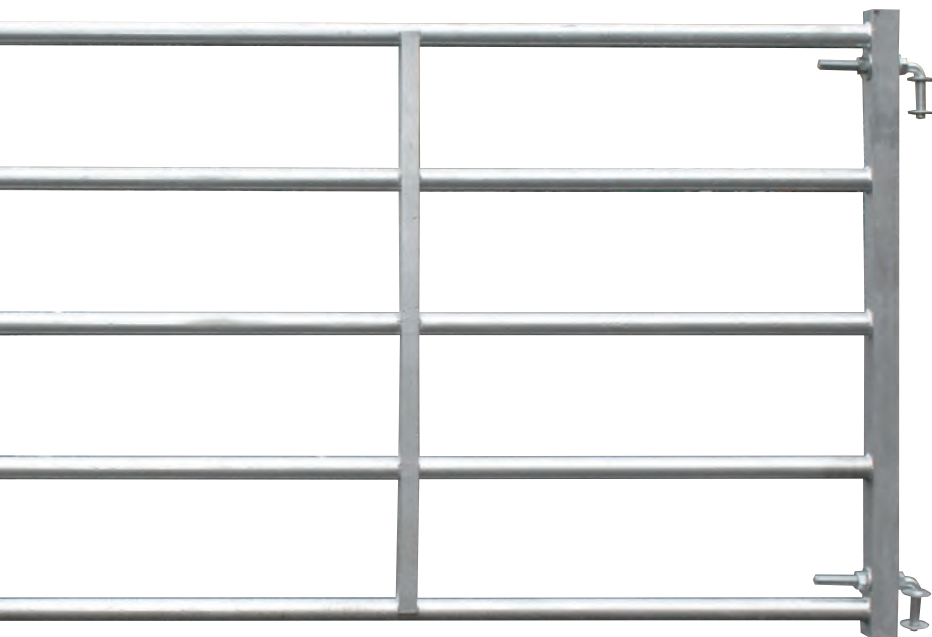
# Gate Hinge Pins & Pocket Mounts

J&D Manufacturing's Hinge Pin Pocket Mounts give you the flexibility you need when installing your J&D Steel Make-A-Gates. Pocket Mounts fit our standard HGF150 hinge pins, and can be fully adjusted AFTER installing your gates.

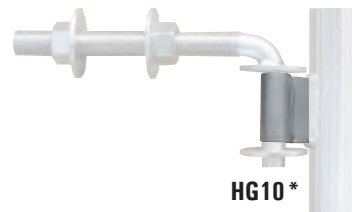
## Features

- Hot dip galvanized for long life
- Quick and easy installation
- No restrictions for weight or length of gate
- Bolt-on or weld-on mounts
- Flat or round surface mounts
- Hinge pockets for 1 $\frac{5}{8}$ ", 1.9", and 4" post
- Sold in pairs

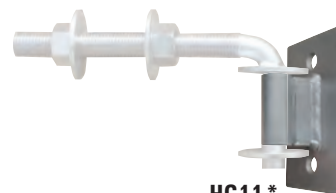
**Pocket mounts for nearly any J&D Steel Make-A-Gate installation situation.**



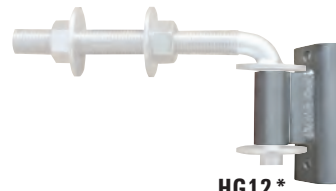
HGF150



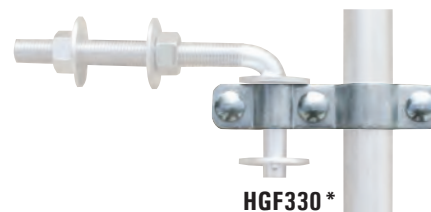
HG10 \*



HG11 \*



HG12 \*



HGF330 \*



HGF331 \*



HGF335 \*

Part#	Description
<b>Hinge Pins</b>	
HGF150	(2) Hinge, Gate Thru Bolts Male End, HDG, with Hardware
<b>Hinge Pin Pocket Mounts *</b>	
HG10	(2) Hinge Pocket, Weld On, Mount to Flat or Round Surfaces, Zinc Plated
HG11	(2) Hinge Pocket, Bolt On, Mount to Flat Surface, Zinc Plated
HG12	(2) Hinge Pocket, Bolt or Weld On, Mount to Flat or Round Surfaces, Zinc Plated
HGF330	(2) Hinge Pocket Mount, Bolt On, Mount to 1 $\frac{5}{8}$ " Post, HDG, with Hardware
HGF331	(2) Hinge Pocket Mount, Bolt On, Mount to 1.9" Post, HDG, with Hardware
HGF335	(2) Hinge Pocket Mount, Bolt On, Mount to 4" Post, HDG, with Hardware

*\*Pocket mounts are pictured using the HGF150 hinge pin for display purposes only. The HGF150 is not included with the hinge pocket mounts.*

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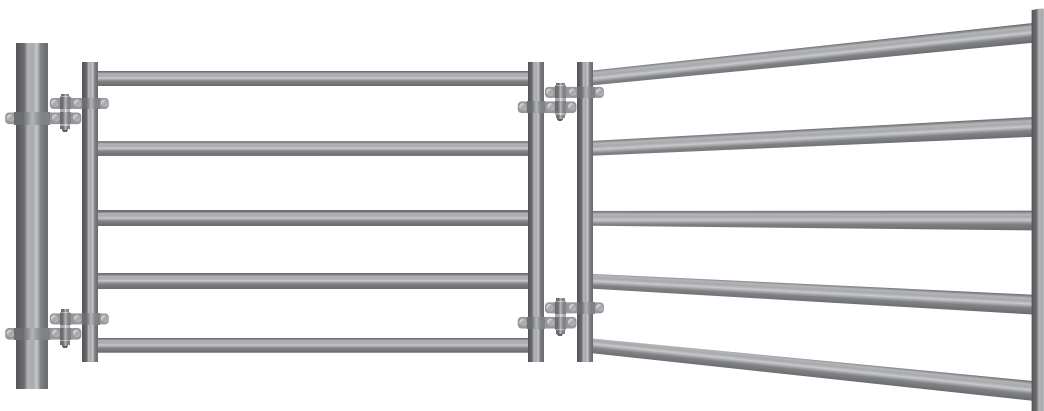
# Round Tube Bolt-On Gate Hinges

J&D's round tube gate hinges provide a flexible option when hanging your gates. The bolt-on design allows you to adjust the gate height at any time without drilling new holes or creating a new weld.



## Features

- Hot dip galvanized for long life
- Quick and easy bolt-on design
- Hinges to mount 1 $\frac{5}{8}$ " or 1.9" tubes to 1 $\frac{5}{8}$ ", 1.9", or 4" posts
- Sold in pairs with mounting hardware

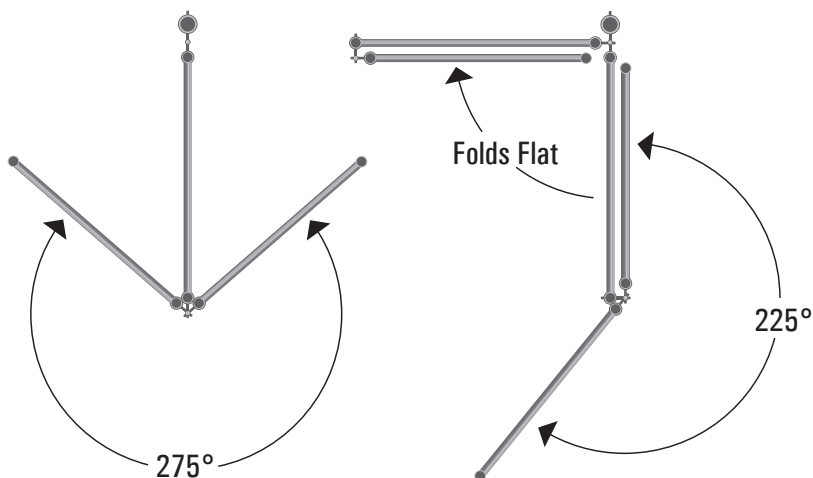


## Round Tube Bi-Fold & Bi-Fold Foldaway Gate Hinges

Bi-fold hinges from J&D Manufacturing turn your round tube gates into a custom bi-fold foldaway gate. The bolt-on design allows you to adjust the gate height at any time without drilling new holes or creating a new weld. Bi-fold gates give you greater control when directing livestock traffic flow.

## Features

- Turn your round tube gate into a custom bi-fold or bi-fold foldaway gate!
- Hot dip galvanized hinges
- Quick and easy bolt-on design
- Fits gates with 1 $\frac{5}{8}$ " or 1.9" round tubes
- Sold in pairs with mounting hardware



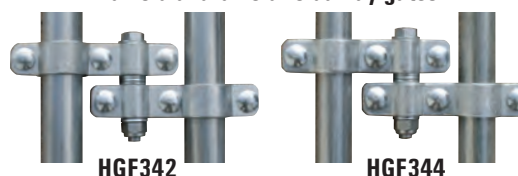
Mount hinge on the end of the gate to create a bi-fold with a 275° swing.

Mount hinge on the left or right side of the gate to create a bi-fold that will swing flat and fold completely away.

## Round Tube Bolt On Gate Hinges

Part#	Description
HGF340	(2) Bolt On Hinges, 1.9" Tube to 4" Post, HDG, w/Hardware
HGF341	(2) Bolt On Hinges, 1.9" Tube to 1 $\frac{5}{8}$ " Post, HDG, w/Hardware
HGF342	(2) Bolt On Hinges, 1.9" Tube to 1.9" Post, HDG, w/Hardware
HGF343	(2) Bolt On Hinges, 1 $\frac{5}{8}$ " Tube to 4" Post, HDG, w/Hardware
HGF344	(2) Bolt On Hinges, 1 $\frac{5}{8}$ " Tube to 1 $\frac{5}{8}$ " Post, HDG, w/Hardware

Most common round tube hinges for the bi-fold and bi-fold foldaway gates



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# Self Catching Gate Latches & Mounting Brackets

## HP40W - Heavy-Duty Spring Loaded Self Catching Latch

- Two-way spring loaded latch
- Bolt onto a wall or wood post (*bolts not included*)
- Weld or bolt onto a steel post using our optional mounting brackets
- Corrosion-resistant, hot dip galvanized finish



HP40W

## HP70 - Self Catching Latch and Peg Set

- Two-way self catching latch
- Lockable using standard padlock (*not included*)
- Bolt onto a wall or wood post (*bolts not included*)
- Weld or bolt onto a steel post using our optional mounting brackets
- Includes bolt-on peg for 1 $\frac{5}{8}$ " or 1.9" round tube, or 2" square tube
- Durable black powder coat finish



HP70

## HG46 & HG47 - Pegs for Self Catching Latches

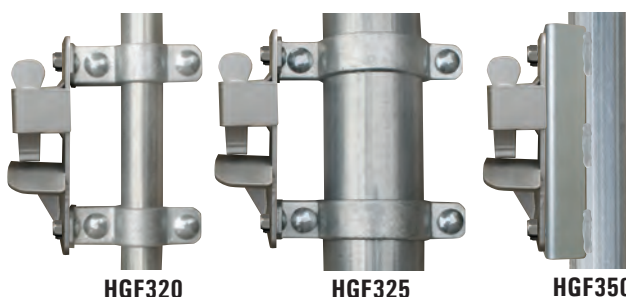
- 5 $\frac{3}{4}$ " long  $\frac{3}{4}$ " solid steel peg
- Bolt-on pegs available for 2" or 2 $\frac{1}{4}$ " square tube
- HG47 is a great addition to our J&D Make-A-Gates



HG46  
HG47

## Optional Mounting Brackets for Self Catching Latches

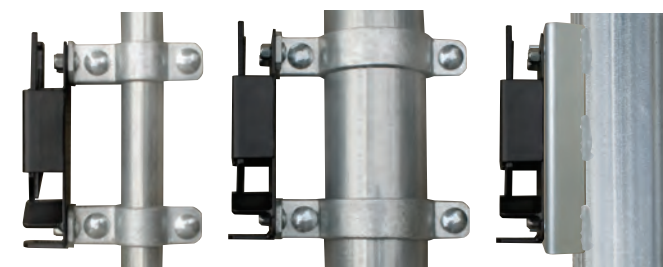
- Brackets compatible with HP40W and HP70 gate latches
- HGF320 & HGF325 brackets can be bolted to 1 $\frac{5}{8}$ " or 4" tubes and are hot dip galvanized for long life
- HGF350 weld on bracket fits 2 $\frac{7}{8}$ " post, 4" post, or a flat surface and has painted finish for easy welding



HGF320

HGF325

HGF350



HGF320

HGF325

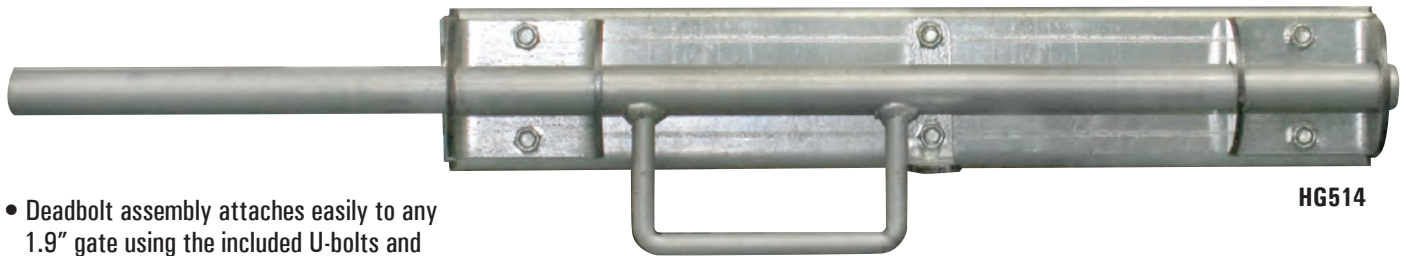
HGF350

Part#	Description
<b>Gate Latches</b>	
HP40W	Wall Latch, Self Catching, HDG
HG46	Peg, Bolt-On for 2" Gates, Silver Powder Coat
HG47	Peg, Bolt-On for 2 $\frac{1}{4}$ " Gates, fits Make-A-Gate, HDG
HP70	Wall Latch and Peg, Black Powder Coat, Packaged
<b>Gate Latch Mounting Options</b>	
HGF320	(2) Gate Latch Mount, Bolt-On, 1.66" Post, HDG, w/Hrdwr
HGF325	(2) Gate Latch Mount, Bolt-On, 4" Post, HDG, w/Hrdwr
HGF350	Latch Bracket, Weld-On, 2 $\frac{7}{8}$ " or 4" Post, Painted Silver, w/Hrdwr

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# Deadbolt Assembly & Accessories



**HG514**

- Deadbolt assembly attaches easily to any 1.9" gate using the included U-bolts and nylock nuts
- Heavy-duty G90 8-gauge galvanized deadbolt
- Locking rod slides into the bolt-on or weld-on latch pockets

Part#	Description
HG514	Deadbolt Assembly, Clamped or Welded, for 1.9" Gates
HG518	Latch Pocket, Deadbolt, Bolt-On or Weld-On Flat Surface
HG520	Latch Pocket, Deadbolt, Bolt-On 2 7/8" Tube
HG522	Latch Pocket, Deadbolt, Bolt-On 4" Tube
HG524	Latch Pocket, Deadbolt, Weld-On 2 7/8"
HG526	Latch Pocket, Deadbolt, Weld-On 4"



**HG518**



**HG520  
HG522**



**HG524  
HG526**

## Gate Wheel

### HG60 - Standard Gate Wheel

- Must be mounted at height needed
- Reduces stress on hinges and posts
- Eliminates gate sag
- Tough, rust-resistant galvanized steel
- Smooth rolling 6" heavy-duty plastic wheel
- Fits 1 5/8", 1.9", and 2" round or square tube gates



**HG60**

Part#	Description
HG60	Gate Wheel

Dimensions	
Overall bracket height	8"
Overall bracket and wheel height	10"

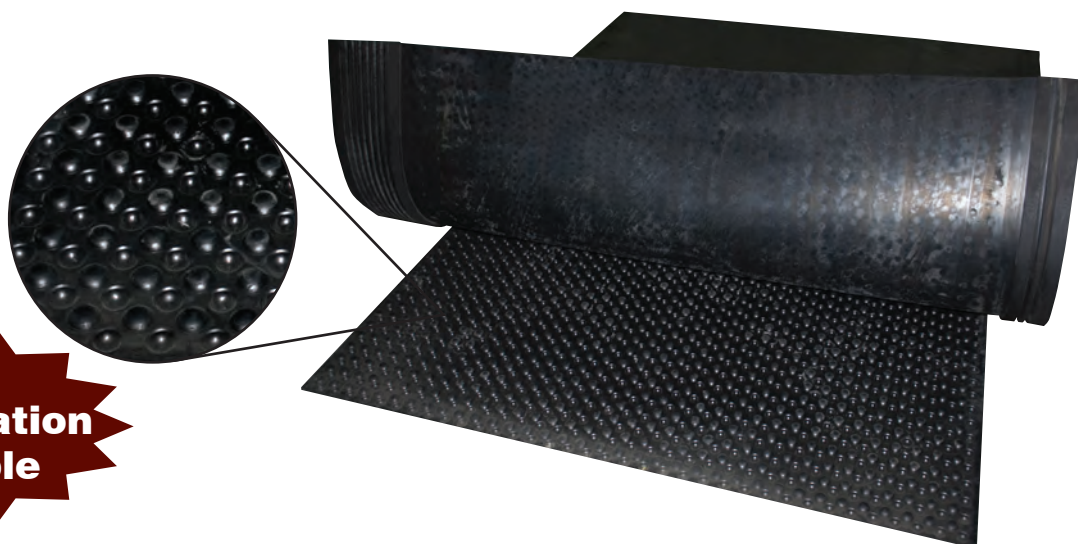
**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# DELIVERING COMFORT FROM THE GROUND UP

At J&D Manufacturing, cow comfort is our number one priority. Whether they're lying down or moving about, all of our rubber mats and flooring are designed from the ground up to deliver maximum comfort to the cows in your barn. With a slip-resistant and non-absorbent design, our selection of mats and rolled rubber are comfortable and practical—not to mention durable. You'll love how you're able to minimize herd disruption with our interlocking mats and seamless rolls for a quick & easy installation.

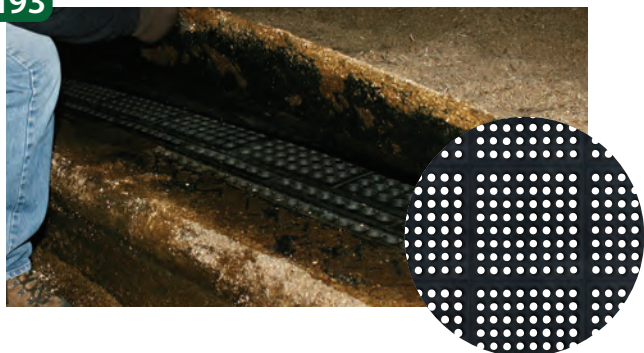
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**Durable**  
**Easy installation**  
**Comfortable**



## DOUBLE DOME COMFORT SYSTEM

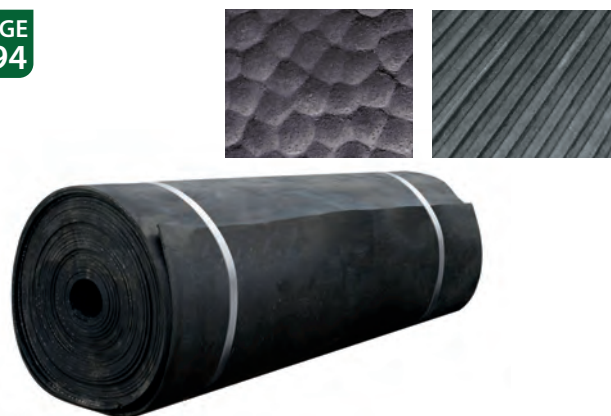
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### CONTINUOUS INTERLOCK ANTI-FATIGUE MAT SYSTEM

Features the J&D Anti-Fatigue Mat, creating a durable yet comfortable mat system.

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### ROLLED RUBBER

J&D Manufacturing's Rolled Rubber is perfect for walkways, alleyways, stalls, and holding areas.

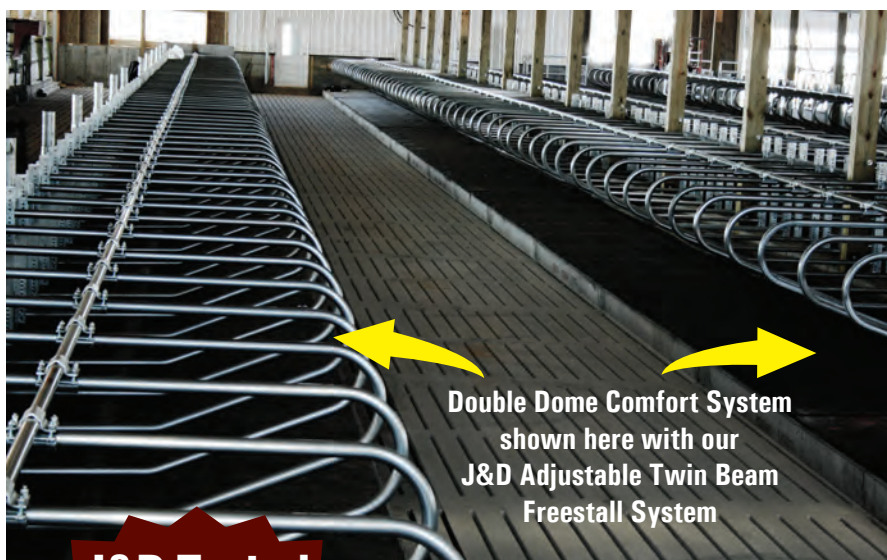
# Double Dome Comfort System

J&D's Double Dome Comfort System is a durable yet comfortable system for agricultural applications.

Our cushioning rubber Double Dome covered by a slip-resistant top cover inlaid with mesh for strength and durability, increases cow comfort, hygiene, and safety from slipping.

## System Features

- 100% rubber system
- Ideal for any stall spacing
- Continuous runs up to 50'
- Quick and easy installation to minimize herd disruption and save on labor costs
- Non-absorbent
- Insulates against moisture and cold
- **2 Year Warranty** covers normal freestall use
- **Top Cover**
  - Slip-resistant, hammered texture surface
  - Mesh inlay for added strength and to prevent tearing
  - Improves bedding retention
  - Hygienic, non-absorbent surface that will not rot or mold
  - Easy to clean
  - 72" deep



**J&D Tested  
•  
Cow  
Approved**



Part#	Description
SDRDD60-50	Double Dome, 60" x 50' Roll
SDRDD72-50	Top Roll, Rubber with Mesh, for Double Dome System, 72" x 50' Roll
<b>Installation Components</b>	
PP10668	T-bar, 70" Black PVC, Hold Down
PP10669	L-angle, 144" Black PVC, Hold Down
HD10574	Anchor, Flat Head Split Drive, 1/4" x 4", Zinc
HD10326	Anchor, Perma Grip 1/4" x 3"
HD10327	Washer, Fender 5/16" x 1 1/4" Stainless-Steel

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# Continuous Interlock Anti-Fatigue Mat System



J&D's Continuous Interlock Anti-Fatigue Mat System featuring the SDM3660 mat is a durable, yet comfortable mat system for agricultural applications. Layer the mats into a two or three layer system and top with our slip-resistant, continuous rolled rubber to create a complete cow comfort system. The SDM3660 Anti-Fatigue mat is also an excellent choice for parlors and wash areas due to the easy drainage design.

**2 Year  
Warranty  
Covers Normal  
Freestall Use**



## System Features

- 100% rubber mat system
- 2 or 3 layer Anti-Fatigue mat system to fit your budget
- Ideal for any stall spacing
- Continuous runs up to 100'
- Quick and easy installation to minimize herd disruption and save on labor costs
- Non-absorbent
- Insulates against moisture and cold
- **2 Year Warranty** covers normal freestall use

### • SDM3660 Anti-Fatigue Mat

- 3' x 5' interlocking design for continuous runs
- 5/8" thick single mats are easy to handle and easy to install
- Cutout raised design provides exceptional drainage to quickly drain liquids away from mat
- Anti-fatigue for humans and animals
- Withstands temperatures from -55°F to 175°F
- Excellent rebound
- Durable and tear-resistant



### • SDR1065 Continuous Rolled Rubber

- 10mm seamless rubber available in 50' or 100' rolls
- Slip-resistant hammered texture surface
- Mesh inlay for added strength and to prevent tearing
- Improves bedding retention
- Hygienic non-absorbent surface that will not rot or mold
- Easy to clean

Part#	Description
SDR1065	Rolled Rubber, with Mesh Inlay, 10mm x 65" x 100' Roll
SDR1065-50	Rolled Rubber, with Mesh Inlay, 10mm x 65" x 50' Roll
SDPS100	Start/End Kit or Splice Kit with Hardware
SDM100	Installation Kit, 12' with Hardware
SDM3660	Interlocking Anti-Fatigue Mat, 5/8" x 36" x 60"
<b>Replacement Parts</b>	
PP10802	Hold Down, 1" x 1 1/2" x 12', Poly, Black
PP10178	Kick Strip, 5/8" x 2 3/8" x 12', Poly, Black
HD10325	Screw, #10 x 1 1/4", Stainless-Steel Truss Head
HD10326	Anchor, Perma-Grip, 1/4" x 3"
HD10327	Washer, Fender 5/16" x 1 1/4", Stainless-Steel

# Rolled Rubber

J&D Manufacturing's Rolled Rubber is perfect for walkways, alleyways, and stalls. The seamless rolls are easy to install to save you money on labor. Rolled rubber has a slip-resistant hammered texture top for maximum traction.

J&D rolled rubber can be used with alley scrapers when wheels or plastic are attached to the bottom blade.

## Features

- Interwoven mesh layer for increased durability
- Standard 100' seamless rolls for low installation cost
- 10mm,  $\frac{5}{8}$ ", and  $\frac{3}{4}$ " standard rubber thicknesses
- Impact absorbing
- Long lasting
- Hammered top texture surface for excellent traction
- Grooved bottom on  $\frac{5}{8}$ " and  $\frac{3}{4}$ " rubber
- Proven cow acceptance
- Non-absorbent
- Will NOT promote bacteria growth
- UV inhibitor added to protect from sun exposure
- **2 Year Prorated Warranty** on approved installations, walkways, alleyways, and stalls. *Warranty does not cover damage or wear from machinery, chemicals, or improper installation*



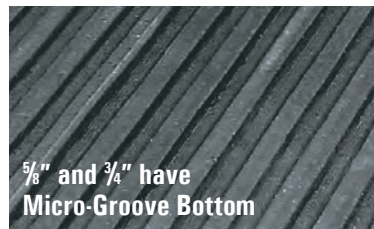
Concrete side of the alleyway

$\frac{3}{4}$ " Rolled Rubber recessed side of the alleyway

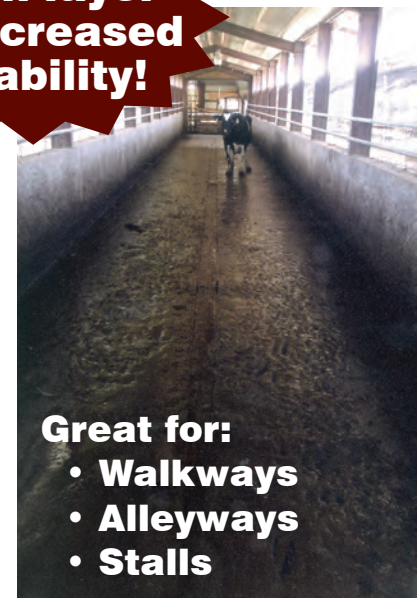
**With mesh layer for increased durability!**



Hammer Top



$\frac{5}{8}$ " and  $\frac{3}{4}$ " have Micro-Groove Bottom



**Great for:**

- Walkways
- Alleyways
- Stalls

Alleyway Installation

Part#	Description	Square Footage
<b>10MM Thick</b>		
SDR1065	Rolled Rubber, 10mm Thick, 65"W x 100'L, w/Mesh Inlay	542
SDR1065-50	Rolled Rubber, 10mm Thick, 65"W x 50'L, w/Mesh Inlay	271
<b><math>\frac{5}{8}</math>" Thick</b>		
SDR584M	Rolled Rubber, $\frac{5}{8}$ " Thick, 4'W x 100'L, w/Mesh Inlay	400
SDR585M	Rolled Rubber, $\frac{5}{8}$ " Thick, 5'W x 100'L, w/Mesh Inlay	500
SDR586M	Rolled Rubber, $\frac{5}{8}$ " Thick, 6'W x 100'L, w/Mesh Inlay	600
<b><math>\frac{3}{4}</math>" Thick</b>		
SDR344M	Rolled Rubber, $\frac{3}{4}$ " Thick, 4'W x 100'L, w/Mesh Inlay	400
SDR345M	Rolled Rubber, $\frac{3}{4}$ " Thick, 5'W x 100'L, w/Mesh Inlay	500
SDR346M	Rolled Rubber, $\frac{3}{4}$ " Thick, 6'W x 100'L, w/Mesh Inlay	600
<b>Installation Hardware</b>		
HD10225	Anchor, Split Drive $\frac{1}{4}$ " x 3"	
HD10224	Washer, Fender $\frac{3}{8}$ " x 1 $\frac{1}{2}$ " OD	



Seamless Rolls

## Bedding Options for Dairies

**Rubber mattresses are so comfortable, they encourage lying time, allowing for improved nutrient utilization and milk production.**

Bedding is an important choice all dairy farmers must make. Choosing the right bedding for your farm can make a huge difference in cow comfort, leading to a more profitable dairy.

When considering different bedding options, make sure you do your research on advantages and disadvantages of each material. Although barn design will come into play (tie v. free v. open) there are certain materials that should not be overlooked.

There are a variety of options available for dairy farmers to use on their farm. Here are some of the most common:

### Rubber Mattresses

**Advantages:** Waterproof. Comfortable. Anti-slip grip. Easy to clean.

Take a giant leap forward in cow comfort with rubber mattresses. Rubber mattresses are waterproof, and thus easy to clean and maintain. They also keep your herd comfortable, ensuring they are warm in the winter and cool in the summer.

Additionally, because rubber mattresses are so comfortable, they encourage lying time, allowing for improved nutrient utilization and milk production.

### Sand

**Advantages:** Comfortable. Cool in Summer. Warm in Winter.

Sand is a popular choice for bedding, and it's not difficult to see why. Sand ensures your cows are comfortable in all seasons. And because it conforms to the cow's body, it leads to increased day-to-day comfort as well. On the downside, it can be difficult to work with, keep clean, and it can cling to your cows when wet.

### Sawdust/Wood Shavings

**Advantages:** Comfortable. Cost-Effective.

When properly dried, sawdust or wood shavings can be an adequate, comfortable, and cost-effective solution for dairy bedding. However, it has its challenges. This material allows for the growth of pathogens when wet, and you must have the correct particle size for sawdust.

### Straw

**Advantages:** Composts well. Economical.

Chopped straw can be a highly economical choice if it's grown right on your farm. Similar to the other options we mentioned, it forms to the cow and is comfortable. It also composts well. Changing out the straw often is required, as soiled straw can lead to pathogen growth. The particle size must also be correct for comfort and breakdown time.

When it comes to bedding options for your dairy, it can be overwhelming. Contact us today for our recommendations on bedding material for your specific barn type and equipment.



# EVERYDAY ESSENTIALS

J&D has everyday essentials to keep your production high and animals healthy. Whether it's lighting to keep your winter production high and facility safely lit, or handle goods to get in all of the areas where machines can't get to, consider J&D Manufacturing for your everyday essential needs. Part of maintaining animal health is giving them access to groom themselves. The Smart Cow Brush will keep your cows clean and stimulated. Create an optimal environment for your plants and livestock with the other extras that will elevate your facility.

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**Highly  
Recommended  
by  
Veterinarians**

A valuable and efficient tool for increasing cow health, happiness, and production. Its large curved brush and stimulating poly bristles has your cows' comfort covered.

## SMART COW BRUSH

Automated cow brushes do more than just scratch an itch they also:

- increase circulation
- remove
  - filth
  - parasites
- decrease
  - boredom
  - stress
  - abnormal behaviors

All of which make for a healthier and happier cow.

A happy, healthy cow is a **better producing cow.**

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## BIOSECURE COW CREMATOR

Economical, safe, and convenient carcass disposal.

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**Poly blade has  
LIFETIME  
WARRANTY  
AGAINST  
CRACKING!**

## BIG PUSH SCRAPERS

A line of scrapers that have a wide variety of uses including scraping and shoveling floor accumulation, debris, and snow. Available with a curved handle or our comfort fit D-Handle for all day use.

# Smart Cow Brush

J&D's Smart Cow Brush is a valuable and efficient tool for increasing cow health, happiness, and production. With its large curved brush and stimulating poly bristles, J&D's Smart Cow Brush has your cows' comfort covered.

## Smart Features

- Energy saving motion and thermal sensor triggers auto start and auto stop
- To ensure long bristle life and even wear, each time brush is activated it switches rotation direction
- 15 minute run time to prevent one cow from hogging the brush
- Built-in safety feature senses resistance and automatically reverses brush direction to allow for quick and safe release
- Thermal overload protected

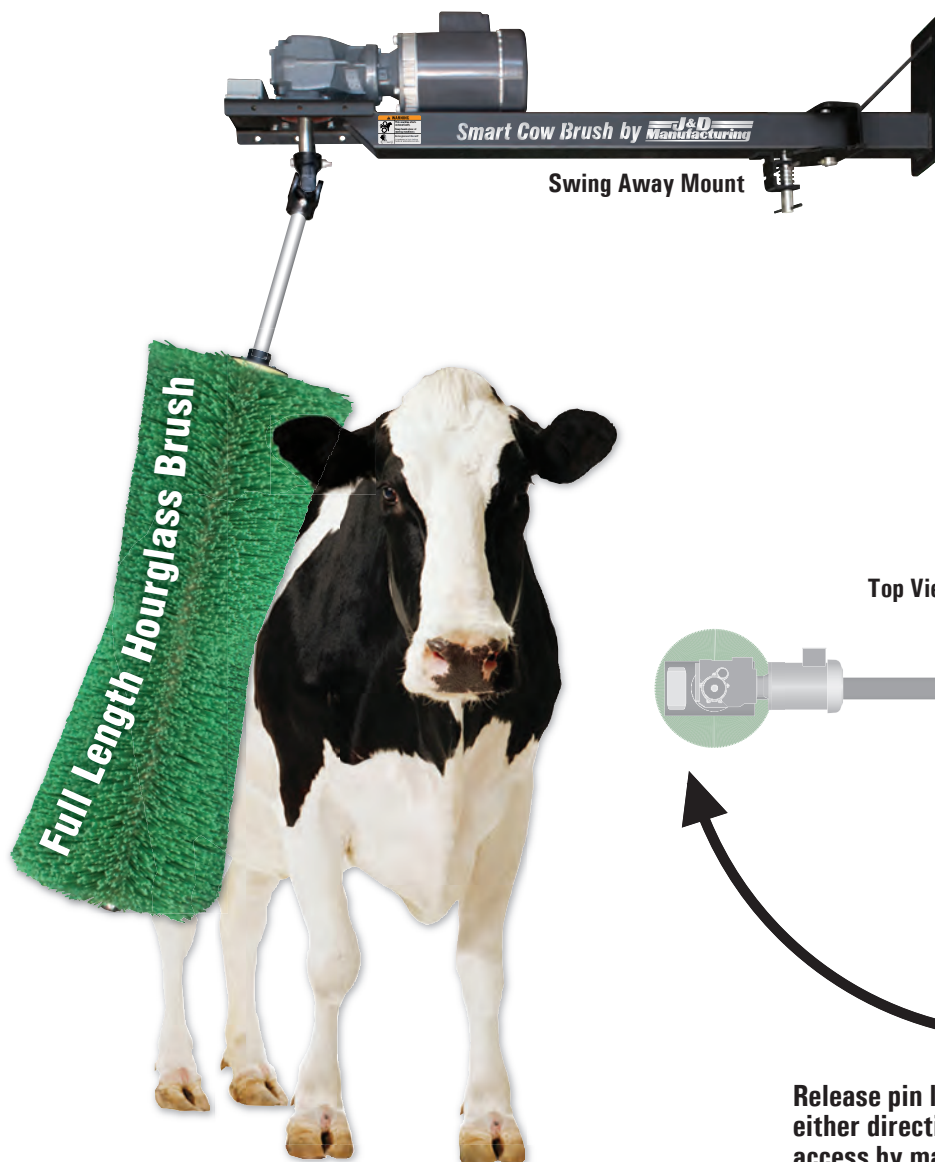
**Highly  
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Automated cow brushes do more than just scratch an itch they also:

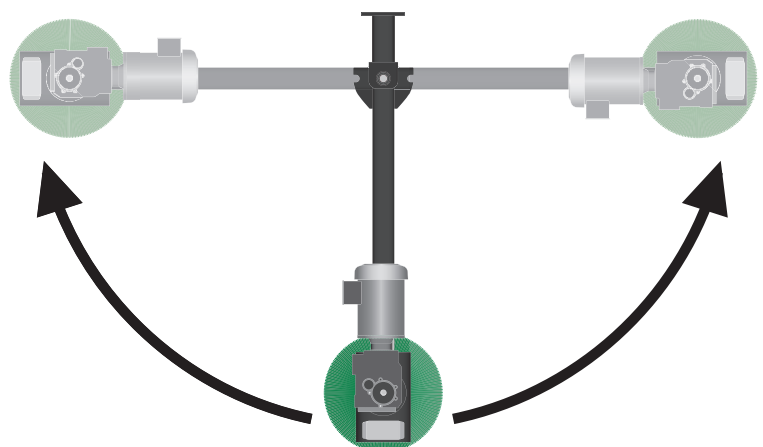
- increase circulation
- remove
  - filth
  - parasites
- decrease
  - boredom
  - stress
  - abnormal behaviors

All of which make for a healthier and happier cow.

A happy, healthy cow is a better producing cow.



Top View of Swing Away Mount



Release pin lock and swing brush 90° in either direction to allow for unhindered access by machinery.

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Smart Cow Brush

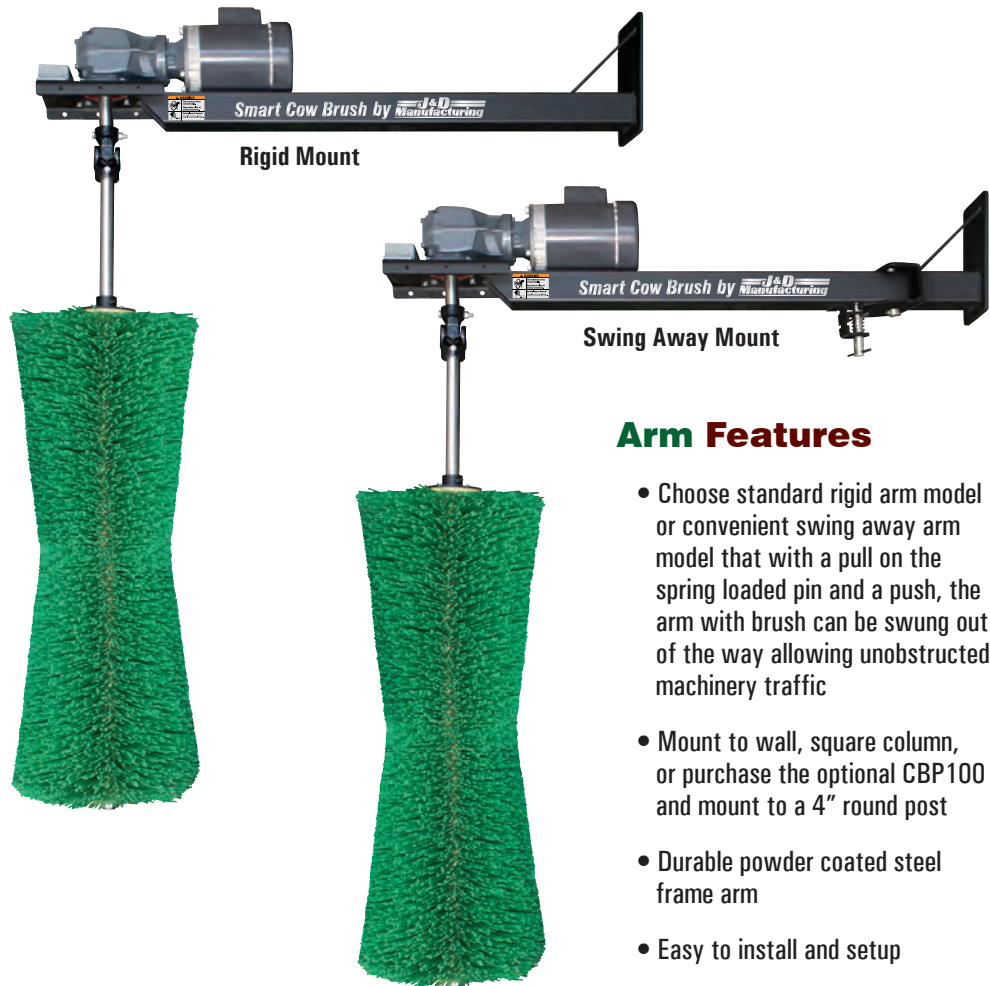
## Brush Features

- Over 44" of brush height to reach areas that many other brushes miss
- For increased coverage, relief, and stimulation the hourglass shaped brush conforms to the shape of the cow giving more top to bottom brush contact
- Durable poly bristles are stiff and tightly packed for long life and continuous, comfortable, and therapeutic use
- Universal joint allows the brush to swing freely with 360° rotation
- Corrosion-resistant, stainless-steel brush shaft

## Motor Features

- Powerful ¾ HP fan cooled motor for extending motor life
- Dual voltage (115V or 230V single-phase)
- Covered by a **One Year Warranty**

**A Clean Cow  
is a  
Smart Cow!**



## Control Features

- No user settings - Just apply power and turn it on
- NEMA 4X enclosure to protect the electronics from the harsh barn environment
- Easy-to-identify emergency stop safety switch



## Arm Features

- Choose standard rigid arm model or convenient swing away arm model that with a pull on the spring loaded pin and a push, the arm with brush can be swung out of the way allowing unobstructed machinery traffic
- Mount to wall, square column, or purchase the optional CBP100 and mount to a 4" round post
- Durable powder coated steel frame arm
- Easy to install and setup

Part#	Description	HP	Volts	Amps	Hz	Ph	RPM
<b>Rigid Mount</b>							
CBR1000	Rigid Mount, Smart Cow Brush, with Control	¾	115/230	11.4/5.7	60	1	56
CBR1000-4	Smart Cow Brush with Rigid Mount, Pallet of 4						
<b>Swing Away Mount</b>							
CBS1000	Swing Away Mount, Smart Cow Brush, with Control	¾	115/230	11.4/5.7	60	1	56
CBS1000-4	Smart Cow Brush with Swing Away Mount, Pallet of 4						
<b>Accessories &amp; Replacement Parts</b>							
CBP100	4" Round Post Mount Kit, Smart Cow Brush						
CBB100	Replacement Brush Kit, Smart Cow Brush						

~ 50 Hz compatible models available contact J&D Manufacturing for more information  
*Rated for indoor use only. Not to be used with animals with long hair. Warranty for dairy cows use only. J&D recommends 50-60 cows per brush.*

**Buy a  
full pallet of  
4 units for  
cost savings**



**CBP100**  
4" Round Post Mount Kit

**⚠ WARNING:** This product can expose you to chemicals including chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).



# Biosecure Cow Cremator

J&D Manufacturing is your exclusive source for the Burn-Easy Biosecure Cow Cremator. Animal cremation is an efficient and biosecure method of disposal that destroys the spread of disease and keeps rendering vehicles off your farm. The J&D Cow Cremator uses a patented burning process and patented pre-tempered refractory block liner that resists cracking and reflects heat for a clean and even burn.

## Patented

### • Burning Process

- Flames pass horizontally through the chamber instead of from the bottom up
- Spiral flame action increases burn retention for a clean and thorough burn
- Carcass reduction of 70–150 lbs. per hour, depending on burn rate
- Fuel consumption average between 2 and 2.5 gallons per hour
- Low outside shell temperature

### • Thermostatically Controlled System

- Similar to a convection oven, when the temperature inside the chamber reaches the desired level, the burner shuts down and air is forced into the chamber so that the carcass continues to burn
- Independent major university studies show the unique design of the cremator saves up to 65% on fuel consumption, resulting in a savings of more than a gallon of fuel per hour
- HD Digital Controller

### Pollution-Free Disposal

- Meets or exceeds EPA guidelines
- Reduces approximately 100–125 lbs. of carcass to less than one gallon of biosecure ash
- No unpleasant odors or smoke when operated properly

### Completely Automatic

- Auto ignition eliminates lighting pilot
- Operator fills the incinerator, sets the timer, and walks away
- Heat control unit may be field set to optimize individual burning needs

### Ease Of Operation:

1. Load Unit
2. Set Timer
3. Verify Ignition
4. Walk Away

### Heavy-Duty Construction

- Constructed of  $\frac{3}{8}$ "– $\frac{1}{2}$ " reinforced steel for extended life
- Reinforced with 1" x 2" solid bar
- Continuous welding prevents weld breakage at critical points



64" Model with  
Optional After-Burner

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# Biosecure Cow Cremator

## Optional After-Burner

- Further reduces smoke, fumes and pollutants may be required to meet state specific permit (*Talk to one of our representatives for more information*)
- 0.75 of a second retention time for cleaner burning
- Operates at 1,650° F

## HD Digital Controller

- Adjustable 24-hour timer
- Sealed aluminum box
- Time and temperature dual display screen
- Ignition failure and temperature limit automatic shutoff
- Fuse protection
- Pluggable relays
- Light sensing LED's for easy viewing in wide range of conditions
- Cool down mode supplies oxygen for complete burn and shorter reloading times
- Controller can be operated on 110 VAC, 220 VAC, or 230 VAC with no upgrade
- Fuel On, Fan On, High Limit indicator lights
- CSA approval pending

## Cow Cremator Sizes

- 9' x 52" - 2,000 pounds capacity
- 9' x 64" - 3,000 pounds capacity

## Burner Options

- Diesel (standard)
- LP
- Natural Gas
- Methane

## Voltage Requirements

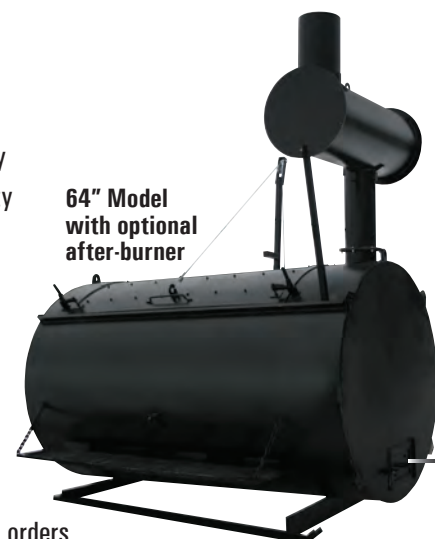
- 120V, 60 Hz at 20 Amps
- 220V, 50 Hz available on special orders



64" Model with optional after-burner



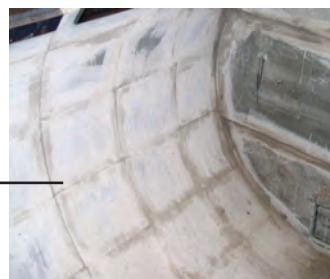
52" Model



64" Model with optional after-burner

## Patented Liner

- Pre-tempered insulating refractory block liner
- designed to withstand heat of up to 3000° F
- resists cracking and reflects heat for a clean and even burn
- has a life expectancy of 7,500 to 10,000 hours (*with proper operation*)
- can be replaced one block at a time as needed for low service costs



## Optional Interior Grates

- Prolong the life of the block liner
- Reduce burn time
- 2 styles available for 64" model



52" Model Shown With Optional Interior Grate

## End Clean-Out Door

- Easy removal of biosecure ash (*For extended life of grate, burner and liner empty after EVERY burn*)



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# Handle Goods

J&D Manufacturing is your handle goods headquarters! We have the perfect tools for scraping and chopping stubborn debris, removing snow, ice, dirt, manure, litter, and more. The uses are endless!

## Utility Scraper/Chisel

- SAF400-P Utility Scraper/Chisel features a 7" stainless-steel blade and slip-resistant teeth for scraping and chopping stubborn debris, buildup, and ice.

## Livestock Hoes

- SAF500-P & SAF510-P Livestock Hoes will get the job done with a 60° angled poly or stainless-steel blade. The compact design allows you to clean the tightest spaces and pull debris from corners.

## Nylon Hoe

- SAF520-P Nylon Hoe is designed for both pushing and pulling and has a durable fiberglass handle with a specially developed composite for a splinter-free surface.

## Stainless-Steel Welded Scraper

- SAF1000-P Scraper has a completely welded design for your toughest jobs.



**SAF400-P**  
Stainless-Steel  
Scraper/Chisel



**SAF500-P**  
Stainless-Steel  
Livestock Hoe



**SAF510-P**  
Poly  
Livestock Hoe

## Handle Goods

Part #	Descriptions
* SAF400-P	Utility Scraper/Chisel, 7" SS Blade, Curved Handle
* SAF500-P	Hoe, 12" Stainless-Steel Blade, Curved Handle
SAF510-P	Hoe, 14" Black Poly Blade, Curved Handle
SAF520-P	Hoe, 12" White Nylon Blade, 60" Fiberglass Handle
SAF1000-P	Scraper, 24" Blade, Welded SS, Curved Handle

\* Experts choice

## Replacement Parts

Part #	Descriptions
<b>Grips</b>	
SA141BL	Grip, 1" ID, for Curved Handle - Black
SA143BL	Grip, for SAF520-P - Black
<b>Handle</b>	
SA136Y	Handle, Straight, Yellow Fiberglass for SAF520-P (no grip)
<b>Blades</b>	
SAF511BL	Blade, Hoe, 14" Black Poly for SAF510-P
SAF512W	Blade, Hoe, 12" White Nylon for SAF520-P



**SAF520-P**  
Nylon Hoe with  
Fiberglass Handle



**SAF1000-P**  
Stainless-Steel  
Welded Scraper

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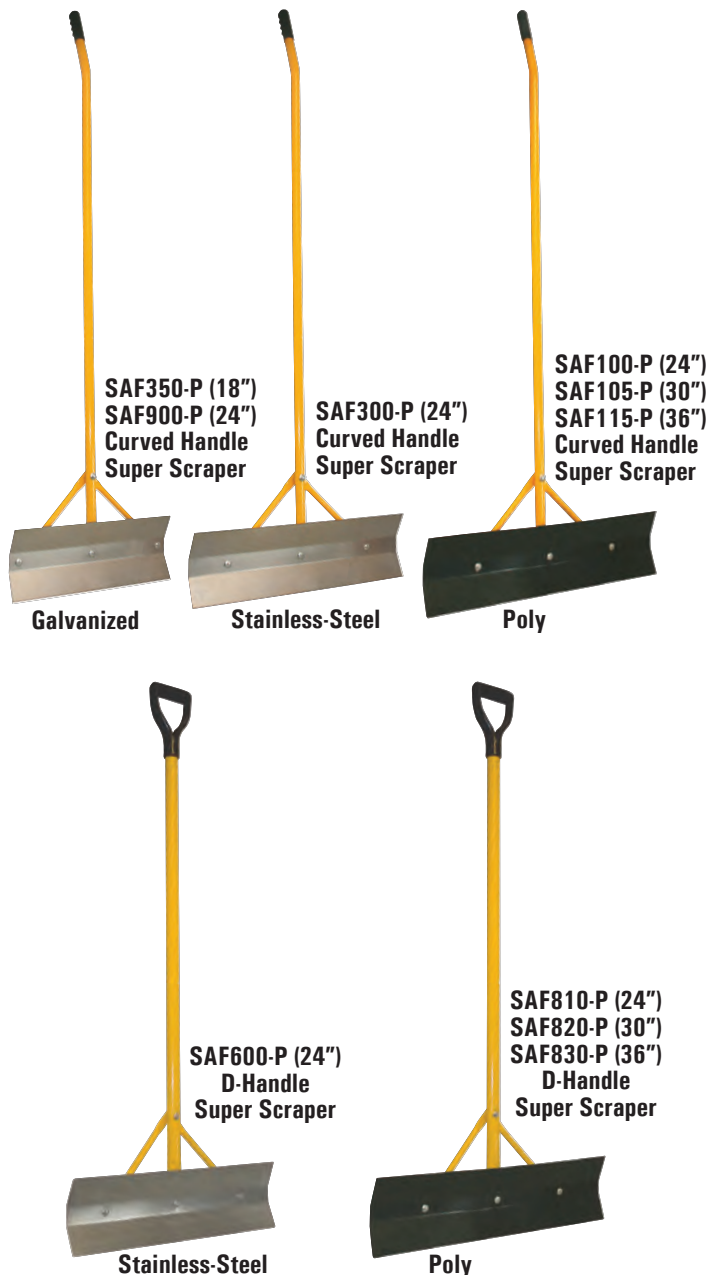


# Super Scrapers

J&D Manufacturing's line of Super Scrapers are built for comfort and strength, and are ideal for pushing snow and dirt from walkways.

## Features

- Curved handle or D-handle available on poly and stainless-steel bladed models
- Durable powder coated steel handles and braces
- Poly, stainless-steel, and galvanized blades are reversible for double the wear life
- **Lifetime Warranty** against cracking on poly blades



## Fully Assembled (must be shipped LTL or Truck ONLY)

Part #	Descriptions
<b>Curved Handle</b>	
SAF100-P	24" Black Poly Blade, Super Scraper, Curved Handle
SAF105-P	30" Black Poly Blade, Super Scraper, Curved Handle
SAF115-P	36" Black Poly Blade, Super Scraper, Curved Handle
* SAF300-P	24" Stainless-Steel Blade, Super Scraper, Curved Handle
SAF350-P	18" Galvanized Blade, Super Scraper, Curved Handle
SAF900-P	24" Galvanized Blade, Super Scraper, Curved Handle
<b>D-Handle</b>	
SAF810-P	24" Black Poly Blade, Super Scraper, D-Handle
SAF820-P	30" Black Poly Blade, Super Scraper, D-Handle
SAF830-P	36" Black Poly Blade, Super Scraper, D-Handle
SAF600-P	24" Stainless-Steel Blade, Super Scraper, D-Handle

\* Experts choice

## Unassembled

Part #	Descriptions
<b>Curved Handle</b>	
* SAF100	24" Black Poly Blade, Super Scraper, Curved Handle
SAF105	30" Black Poly Blade, Super Scraper, Curved Handle
SAF115	36" Black Poly Blade, Super Scraper, Curved Handle
* SAF300	24" Stainless-Steel Blade, Super Scraper, Curved Handle
SAF350	18" Galvanized Blade, Super Scraper, Curved Handle
SAF900	24" Galvanized Blade, Super Scraper, Curved Handle
<b>D-Handle</b>	
SAF810	24" Black Poly Blade, Super Scraper, D-Handle
SAF820	30" Black Poly Blade, Super Scraper, D-Handle
* SAF830	36" Black Poly Blade, Super Scraper, D-Handle
SAF600	24" Stainless-Steel Blade, Super Scraper, D-Handle

\* Experts choice

## Replacement Parts

Part #	Descriptions
<b>Grips</b>	
SA141BL	Grip, 1" ID, for Curved Handle - Black
SA142BL	Grip, 1¼" ID, D-Handle - Black
<b>Handles with Grip</b>	
SA135Y	Handle with Grip, Yellow Curved, 1" OD
SA153Y	Handle with Grip, Yellow Straight for D-Handle, 1¼" OD
<b>Braces</b>	
SA140Y	Braces, Set of 2 for Super Scrapers - Yellow
<b>Blades</b>	
SA144	Blade, Super Scraper 18" Galvanized Steel
SA165	Blade, Super Scraper 24" Galvanized Steel
SA146	Blade, Super Scraper 24" Stainless-Steel
SA151BL2	Blade, Super Scraper 24" Black Poly
SA152BL2	Blade, Super Scraper 30" Black Poly
SA154BL2	Blade, Super Scraper 36" Black Poly

**⚠ WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov/product](http://www.P65Warnings.ca.gov/product).

# Big Push Scrapers

J&D Manufacturing is your scraper headquarters! Our line of BIG PUSH scrapers have a wide variety of uses including scraping and shoveling floor accumulation, debris, and snow. Scrapers are available with a curved handle or our comfort fit D-Handle for all day use.

## Features

- 24", 30", or 36" wide, ¼" thick black poly blade for long life and extra strength
- Poly blade reduces overall weight and offers an easy to clean, nonstick surface
- **Lifetime Warranty** against cracking on poly blades
- Durable powder coated steel handle and braces
- Curved handle or D-Handle available on all models

## Fully Assembled (must be shipped LTL or Truck ONLY)

Part #	Descriptions
<b>Curved Handle</b>	
SAF110-P	24" Black Poly Blade, Big Push, Curved Handle
SAF150-P	30" Black Poly Blade, Big Push, Curved Handle
* SAF200-P	36" Black Poly Blade, Big Push, Curved Handle
<b>D-Handle</b>	
SAF700-P	24" Black Poly Blade, Big Push, D-Handle
SAF750-P	30" Black Poly Blade, Big Push, D-Handle
SAF800-P	36" Black Poly Blade, Big Push, D-Handle

\* Experts choice

## Unassembled

Part #	Descriptions
<b>Curved Handle</b>	
SAF110	24" Black Poly Blade, Big Push, Curved Handle
SAF150	30" Black Poly Blade, Big Push, Curved Handle
* SAF200	36" Black Poly Blade, Big Push, Curved Handle
<b>D-Handle</b>	
* SAF700	24" Black Poly Blade, Big Push, D-Handle
SAF750	30" Black Poly Blade, Big Push, D-Handle
SAF800	36" Black Poly Blade, Big Push, D-Handle

\* Experts choice

## Replacement Parts

Part #	Descriptions
<b>Grips</b>	
SA141BL	Grip, 1" ID, for Curved Handle - Black
SA142BL	Grip, 1¼" ID, D-Handle - Black
<b>Handles with Grip</b>	
SA135Y	Handle with Grip, Yellow Curved - 1" OD
SA153Y	Handle with Grip, Yellow Straight for D-Handle - 1¼" OD
<b>Braces</b>	
SA140Y	Braces, Yellow, Set of 2 for Big Push, w/Hardware
<b>Blades</b>	
SA147BL	Blade, Big Push 24" Black Poly
SA166BL	Blade, Big Push 30" Black Poly
SA148BL	Blade, Big Push 36" Black Poly



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# Hardware & Clamps

## Control Rail Clamps



HF42



HF42A  
HF42B  
HF42AB



HF43\*

## Tee Clamps



HC20  
HC23



HC25  
HC252



HC27C

## Miscellaneous Clamps



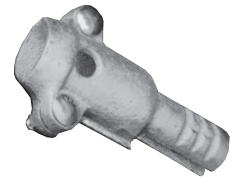
HC26-P



HC35



HC28



HC47

## Feed Rail Brackets

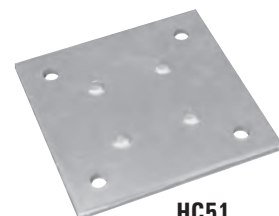


KS300



KS303-HDG  
KS304

## Other



HC51

Part#	Packaged Part #	Description
<b>Control Rail Clamps</b>		
HF42	HF42-P	Clamp, Control Rail, 1 $\frac{5}{8}$ " x 1 $\frac{5}{8}$ ", with Hardware
HF42A	HF42A-P	Clamp, Control Rail, 1 $\frac{5}{8}$ " or 1.9" x 1 $\frac{5}{8}$ " or 1.9", with $\frac{1}{2}$ " Hdwr
HF42B	HF42B-P	Clamp, Control Rail, 2 $\frac{3}{8}$ " x 2 $\frac{3}{8}$ ", HDG, with $\frac{1}{2}$ " Hardware
HF42AB	HF42AB-P	Clamp, Control Rail, 1.9" x 2 $\frac{3}{8}$ ", HDG, with $\frac{1}{2}$ " Hardware
HF43*	N/A	Clamp, Control Rail, 1.9" x 2 $\frac{3}{8}$ ", Ductile Cast Iron, HDG, 2-Bolt
<b>Tee Clamps</b>		
HC20	HC20-P	Clamp, Tee 1 $\frac{5}{8}$ " x 1 $\frac{1}{4}$ "
HC23	HC23-P	Clamp, Tee 1 $\frac{5}{8}$ " x 1 $\frac{5}{8}$ "
HC25	HC25-P	Clamp, Tee 1 $\frac{5}{8}$ " x 1 $\frac{5}{8}$ ", 3-Bolt
HC252	HC252-P	Clamp, Tee 1 $\frac{5}{8}$ " Tube to 2" Post, 3-Bolt
HC27C	HC27C-P	Clamp, Tee 1 $\frac{5}{8}$ " x 4"
<b>Miscellaneous Clamps</b>		
N/A	HC26-P	Clamp, Flange 1 $\frac{5}{8}$ "
HC28	HC28-P	Clamp, Corner 1 $\frac{5}{8}$ " x 1 $\frac{5}{8}$ "
HC35	HC35-P	Clamp, Cross 1 $\frac{5}{8}$ " x 1 $\frac{5}{8}$ "
HC47	HC47-P	Clamp, Save A Stall Fits 1 $\frac{5}{8}$ " Tube
<b>Feed Rail Brackets</b>		
KS300	N/A	Bracket, Feed Rail, for Wood for 2 $\frac{3}{8}$ " Tube
KS303-HDG	N/A	Bracket, Feed Rail, 2 $\frac{3}{8}$ " Tube, 3" Column Mount, HDG, w/Hdwr
KS304	N/A	Bracket, Feed Rail, 2 $\frac{3}{8}$ " Tube, 4" Column Mount, with Hardware
<b>Other</b>		
HC51	N/A	Plate, Post $\frac{1}{4}$ " x 6" x 6" Painted for 4" Column

\*Must be retightened 3 months after initial install, and yearly thereafter

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# Poly Footbaths

J&D Manufacturing's 40-gallon poly footbath has a segmented interior, enabling hooves to open wide and allow treatment products to fully penetrate. Place the footbath in the return lane for twice-daily cleaning action to efficiently reduce the build-up of manure between hooves. Fill the footbath with disinfectant solution to help prevent foot rot and heal erosion. The smaller capacity 10-gallon footbath is perfect for workers to clean shoes and boots to help reduce the spread of bacteria and avoid contamination.

## Features

- Rugged, high density black polyethylene
- Will NEVER rust, rot, or corrode
- Thick walled one-piece construction
- Seamless and leak proof
- Self supporting frame – no wood or steel needed
- Withstands extreme temperatures
- Contoured frame for easy cleaning



Part#	Description	Outside Dimensions	Depth	Gallons
SA620	Footbath, Black Poly, Personnel	28" (L) x 20" (W)	5"	10
SA630	Footbath, Black Poly, Livestock	72" (L) x 32" (W)	6"	40

# Kick Away™

**Your personal servant in grime prevention.**

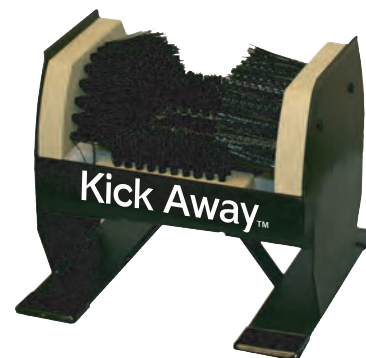
The "Kick Away" shoe and boot cleaner has been designed to be an effective, long lasting, and affordable shoe and boot cleaner.

This is an exceptional product that will give you years of service under all outdoor conditions.

**Why track it in when you can kick it away?**

## Features

- Poly brush mounts won't rot or crack
- Side sweeps have poly bristles to gently but firmly clean debris off sides of the shoe
- Three rows of extra stiff nylon bottom bristles really hold up to the heavy pressure and scrubbing needed to clean the tread of the shoe
- Built-in shoe and boot scraper makes it quicker and easier to remove excessive and hard caked on grime of any kind
- **6 Year Warranty** on powder coat steel frame
- Mounting screws and concrete anchors included
- No assembly required



KAHDB1 - Replacement Brush Set



Part #	Description
KAHD1	Heavy Duty Commercial Model
KAHD3	Case, (3) KAHD1
KAHD6	Case, (6) KAHD1
Replacement Brush Sets	
KAHDB1	Brush Set, Replacement for KAHD1
KAHDB6	Case, (6) KAHDB1 Brush Sets

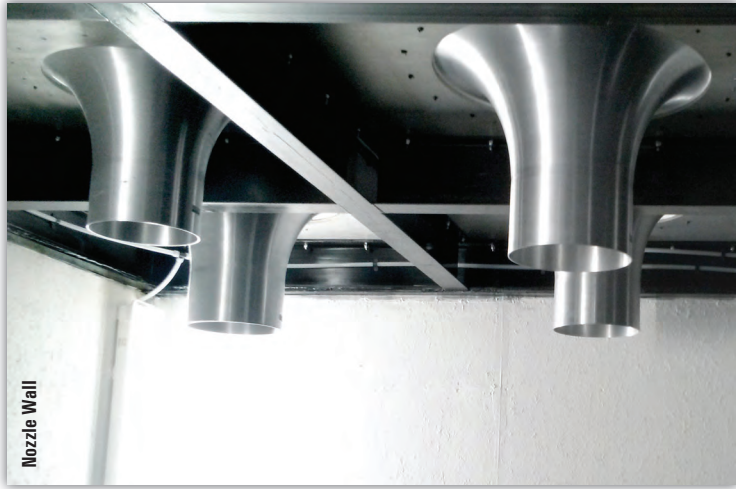
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AMCA Accredited Air Test Chamber

To be the leader in agriculture ventilation has always been a goal of J&D Manufacturing. We're extremely proud of our Air Movement Control Association (AMCA) accredited air test chamber. This highly-technical, scientific instrument allows us the ability to design, test, and manufacture fans that perform as designed and advertised. It allows us to efficiently develop and test prototypes and ensure performance ratings are reliable, accurate, and repeatable. J&D was the first company in the United States to have an AMCA accredited air test chamber that is used exclusively for the agriculture market.

Providing accurate performance data is extremely important to J&D Manufacturing. Today, an agriculture fan is part of an integrated system designed to control an environment. Animals obviously cannot survive without air and proper ventilation. When fan performance data isn't accurate and verified, animals' wellbeing is at stake, which in turn means your livelihood is at stake. J&D tests and re-tests our fans. In the performance section of our catalog, you'll notice all numbers in red font are tested, proven numbers.




How the Air Chamber Works

There are four main components to the air chamber; the intake chamber, settling means, nozzle wall, and final chamber. The air enters through the intake vanes, the intake fan, and the air straightener, into the intake chamber. It goes through the first settling means, which is a series of screens that reduces air turbulence and creates an even flow. Air passes through the nozzle wall, which is a gauge for measuring the airflow through the fan in test. The air then hits the second settling means and enters the final chamber, and exits through the fan in test. The test chamber accurately and repeatably measures fan airflow performance in cubic feet per minute, fan efficiency in cubic feet per minute per watt, and all aspects of the electric power to the fan at any static pressure.

What Does This Mean for You?

When a fan is installed in a barn and power is applied, the fan draws air out of the building and creates a vacuum that is measured in static pressure. Our test chamber creates the static pressure conditions a fan will see in real life applications. When you tell J&D Manufacturing you need a certain airflow, we have the ability to create a custom fan and test it in the same pressurized conditions it will see in your facility. You can trust with 100% confidence that you will receive a fan that performs to your specifications.

Table Data Mark-Up and Abbreviation Guide

<p>★ Experts choice</p> <p></p> <p>~ These units come pre-wired for 115 Volts (electrician may rewire for 230 Volts)</p> <p>NP Amp information as documented on motor name plate</p>	<p>^ Variable speed fans require separate variable speed control to adjust fan speed</p> <p><b>Sp. Cont. Compat. (Speed Control Compatibility):</b></p> <p>A = 0-10v B = 4-20mA A/B = 0-10v &amp; 4/20mA C = Triac D = VFD</p>	<p><b>Drive:</b></p> <p>T = Torque P = Permanent Magnet Direct D = Direct B = Belt</p> <p><b>Prop:</b></p> <p>CA = Cast Aluminum Alm = Aluminum Glv = Galvanized Gva = Galvalume Ply = Poly Nyl = Nylon SS = Stainless-Steel</p>	<p><b>Shutter:</b></p> <p>AS = Aluminum Shutter PS = Poly Shutter GD= Galvanized Damper PD= Poly Damper</p> <p><b>Cone/Hood:</b></p> <p>C = Cone H = Hood</p> <p><b>Cord:</b></p> <p>D = Drop Cord Without Plug P = Cord with Plug</p>
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Part #		60 Hz Motor Label Data ONLY					Sp. Cont.	Speed %	RPM	0.00"SP		0.05"SP		0.10"SP		0.15"SP		0.20"SP		Air Flow Ratio	Drive	Prop	Shutter	Cone/Hood	Test #	
		(not from testing)								CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt							
		Sz	HP	Volts	Amps	NP																				Hz
Legend 80"																										
Three Phase																										
With Cone																										
Aluminum Shutter																										
VLA80A3C403C-PM		80"	4	460	6.15	60	3	1/Var <sup>A</sup>	100%	451	70,691	17.6	68,729	16.6	66,352	15.3	63,710	14.2	61,266	13.1	0.89	P	3-Alm	AS	C	2024-12643-4
			kW						90%	406	63,272	22.0	61,190	20.3	58,444	18.4	55,615	16.8	52,911	15.4	0.86					2024-12643-5
									80%	360	56,110	27.6	53,450	25.0	50,354	21.9	47,106	19.6	43,819	17.5	0.82					2024-12643-6
									70%	316	48,677	35.3	45,607	30.9	41,812	26.1	37,953	22.5	33,553	19.3	0.74					2024-12643-7
									60%	270	41,073	47.0	36,952	38.2	32,437	31.3	27,078	24.9								2024-12643-8
VLA80A3C33C		80"	3	230/460	8.6-8.2/4.1	60	3	1		300	55,655	26.3	52,690	23.9	48,788	21.1	44,788	18.8	39,906	16.7	0.76	T	3-Alm	AS	C	2024-12643-3
Super Magnum																										
Three Phase																										
With Cone																										
VSMF58DP5C403C		58"	4.0	460	6.15	60	3	1/Var <sup>A</sup>	100%	600	52,377	16.7	51,133	15.5	50,002	14.6	48,271	13.3	46,715	12.3	0.91	P	5-Ply	PD	C	20230302-01
			kW						90%	540	47,030	20.0	45,765	18.5	44,192	16.9	42,168	15.2	40,292	13.8	0.88					20230302-02
									80%	482	41,939	24.6	40,330	22.0	38,412	19.5	36,188	17.2	33,857	15.3	0.84					20230302-03
									70%	422	36,796	31.1	35,018	27.3	32,533	23.2	29,893	19.9	25,322	15.9	0.72					20230302-04
									60%	360	30,872	38.9	29,178	33.9	25,996	27.1	21,210	20.7	17,168	16.6	0.59					20230302-05
Magnum																										
Single Phase																										
With Cone																										
VMF58DS3C221AG		58"	2.2	230	13.0	60	1	1/Var <sup>A</sup>	100%	600	45,492	22.7	43,562	20.5	41,470	18.5	38,910	16.5	36,144	14.6	0.83	P	3-SS	PD	C	20240719-02
			kW						90%	539	40,682	28.3	37,977	24.5	35,752	21.9	32,845	19.1	29,426	16.3	0.77					20240716-11
									80%	480	36,065	34.5	33,552	29.8	30,707	25.5	26,625	20.7	22,257	16.7	0.66					20240716-12
									70%	420	31,672	43.7	28,664	36.2	25,018	29.3	18,681	20.8								20240716-13
									60%	360	27,235	57.4	23,727	44.9	18,364	32.0										20240716-14
Three Phase																										
With Cone																										
VMF58DS3C223BG		58"	2.2	208-230	8.6-7.7	60	3	1/Var <sup>A</sup>	100%	600	45,458	23.7	43,365	21.2	41,184	19.1	38,756	17.1	36,057	15.2	0.83	P	3-SS	PD	C	20240718-08
			kW						90%	541	40,578	29.1	38,024	25.3	35,787	22.6	32,603	19.4	29,164	16.6	0.77					20240717-11
									80%	481	36,320	34.8	33,652	29.9	30,848	25.7	27,239	21.4	22,023	16.7	0.65					20240718-01
									70%	420	31,625	44.0	28,818	36.8	25,187	29.8	19,346	21.7	12,495	14.2	0.43					20240718-02
									60%	360	27,098	57.3	24,001	46.2	17,411	30.5										20240718-03
																										20240718-04
VMF58DS3C223CG		58"	2.2	460	4.05	60	3	1/Var <sup>A</sup>	100%	600	45,502	23.1	43,701	21.1	41,422	18.9	39,434	17.2	36,162	15.0	0.83	P	3-SS	PD	C	20240719-03
			kW						90%	540	40,450	27.9	38,236	24.7	35,849	21.8	32,927	19.0	29,612	16.3	0.77					20240708-04
									80%	481	36,057	34.2	33,445	29.3	30,681	25.2	27,066	21.0	22,684	16.9	0.68					20240708-05
									70%	420	31,750	43.7	28,890	36.3	24,975	28.9	19,761	21.8								20240708-06
									60%	360	27,008	56.0	23,658	44.2	17,688	30.4										20240708-07

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Part #	60 Hz Motor Label Data ONLY <small>(not from testing)</small>					Sp. Cont.	Speed % or Levels	RPM	0.00"SP		0.05"SP		0.10"SP		0.15"SP		0.20"SP		Air Flow Ratio	Drive	Prop	Shutter	Cone/Hood	Test #			
	Sz	HP	Volts	Amps	NP				Hz	Ph	Spd	CFM	Watt	CFM	Watt	CFM	Watt	CFM							Watt	CFM	Watt

The Force

Single Phase

No Cone

Aluminum Shutter

Standard Guard

VFF58PS3N221AG	58"	2.2	230	13	60	1	1/Nar^	A	100%	600	38,700	15.5	37,184	14.6	35,510	13.7	33,966	12.9	31,971	11.9	0.86	P	3-SS	AS	N	D	20240723-01
		kW							90%	541	35,186	19.1	33,419	17.7	31,686	16.4	29,802	15.2	27,491	13.8	0.82					20240723-02	
									80%	480	31,526	23.9	29,415	21.7	27,435	19.8	25,052	17.7	21,923	15.4	0.75					20240723-03	
									70%	420	27,710	30.8	25,472	27.4	22,902	24.1	19,704	20.5								20240723-04	

Louvers with Mesh Guard

VFF58PS3L4221AG	58"	2.2	230	13	60	1	1/Nar^	A	100%	600	37,373	14.7	35,696	13.8	34,062	12.9	32,078	11.9	30,129	11.1	0.84	P	3-SS	AS	N	D	20240726-01
		kW							90%	540	33,688	18.0	31,915	16.7	29,927	15.3	27,706	13.9	25,433	12.6	0.80					20240726-02	
									80%	479	29,893	22.5	27,974	20.4	25,743	18.4	23,159	16.3	19,690	13.9	0.70					20240726-03	
									70%	419	26,382	29.1	24,094	25.8	21,356	22.3	17,413	18.1								20240726-04	

Three Phase

No Cone

Aluminum Shutter

Standard Guard

VFF58PS3N223BG	58"	2.2	208-230	8.6-7.7	60	3	1/Nar^	A	100%	599	39,019	16.3	37,527	15.4	35,950	14.5	34,123	13.5	32,342	12.6	0.86	P	3-SS	AS	N	D	20240729-01
		kW							90%	541	35,372	20.0	33,815	18.8	31,835	17.2	29,659	15.7	27,520	14.4	0.81					20240729-02	
									80%	480	31,487	24.9	29,633	22.9	27,382	20.7	24,956	18.5	22,083	16.3	0.75					20240729-03	
									70%	421	27,804	32.0	25,714	28.8	22,987	25.1	19,872	21.4								20240729-04	

VFF58PS3N223CG	58"	2.2	460	4.05	60	3	1/Nar^	A	100%	600	38,945	16.3	37,261	15.3	35,728	14.4	33,941	13.5	31,975	12.5	0.86	P	3-SS	AS	N	D	20240801-08
		kW							90%	541	35,354	19.8	33,509	18.3	31,709	16.9	29,718	15.6	27,175	14.0	0.81					20240801-09	
									80%	480	31,489	24.5	29,621	22.5	27,436	20.3	24,952	18.2	21,518	15.6	0.73					20240801-10	
									70%	420	27,822	31.0	25,383	27.4	22,643	23.9	19,431	20.2								20240802-01	

Louvers with Mesh Guard

VFF58PS3L4223BG	58"	2.2	208-230	8.6-7.7	60	3	1/Nar^	A	100%	600	37,494	15.5	35,979	14.7	34,278	13.7	32,440	12.8	30,213	11.7	0.84	P	3-SS	AS	N	D	20240729-11
		kW							90%	541	33,940	19.0	32,313	17.7	30,219	16.3	28,111	14.9	25,540	13.3	0.79					20240729-12	
									80%	481	30,504	23.9	28,359	21.6	25,866	19.2	23,487	17.3	19,662	14.5	0.69					20240729-13	
									70%	420	26,567	30.6	24,215	27.1	21,477	23.4	17,623	19.2								20240729-14	

VFF58PS3L4223CG	58"	2.2	460	4.05	60	3	1/Nar^	A	100%	600	37,494	15.5	35,979	14.7	34,278	13.7	32,440	12.8	30,213	11.7	0.84	P	3-SS	AS	N	D	20240731-10
		kW							90%	542	34,148	18.6	32,228	17.1	30,307	15.8	28,301	14.5	25,582	12.9	0.79					20240801-01	
									80%	480	30,464	23.1	28,266	20.9	25,916	18.7	23,277	16.6	19,082	13.7	0.68					20240801-02	
									70%	420	26,609	29.5	24,210	26.1	21,516	22.7	17,502	18.3								20240801-03	

Mega Direct Drive

Three Phase Wired for 480V

With 1-Piece Cone (for 3-piece cone, add H after C in part #)

Aluminum Shutter

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Part #	60 Hz Motor Label Data ONLY <small>(not from testing)</small>						Spd	g Comp.	Speed %	RPM	0.00"SP		0.05"SP		0.10"SP		0.15"SP		0.20"SP		Air Flow Ratio	Drive	Prop	Shutter	Cone/Hood	Test #		
	Sz	HP	Volts	Amps	NP	Hz					Ph	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM							Watt	
																												1/Var^
VMDA72G3C43C	72"	4	460	6.15		60	3	1/Var^	A	100%	450	64,057	17.9	61,269	16.7	58,368	15.4	54,955	14.2	50,969	12.9	0.83	P	3-Giv	AS	C	D	20240228-08
										90%	406	57,999	22.1	54,878	20.2	51,106	18.1	47,395	16.4	42,327	14.4	0.77						20240228-09
										80%	358	51,444	27.3	48,076	24.6	43,758	21.8	39,148	19.1	31,315	15.4	0.65						20240301-01
VMDA72G3C43C-HE										70%	314	45,023	34.8	40,887	30.2	36,079	25.8	28,762	20.4	15,059	9.9	0.37						20240301-02
										60%	270	38,283	45.0	33,286	36.9	26,425	28.7											20240301-03
	72"	4	460	6.15		60	3	1/Var^	A	100%	450	54,987	23.7	52,784	21.9	50,084	20.0	46,850	18.0	43,519	16.2	0.82	P	3-Giv	AS	C	D	20240301-07
										90%	406	49,789	29.1	46,901	26.1	43,417	22.9	39,702	20.1	35,458	17.5	0.76						20240228-03
										80%	359	44,447	36.1	41,366	31.7	37,375	27.2	32,872	23.1	24,523	17.3	0.59						20240301-08
										70%	316	38,913	45.2	34,918	37.9	30,123	30.8	22,494	22.7	10,711	9.7	0.31						20240301-09
										60%	270	32,794	56.4	28,279	44.9	21,721	32.9											20240301-10
Mega Torque with VFD																												
Three Phase Wired for 240V																												
With Cone																												
Aluminum Shutter																												
VMTA72A5C33E-VFD240	72"	3	230/460	8.2/4.1		60	3	1/Var^	A/B		301	45,970	25.9	43,653	23.3	40,761	20.7	37,196	17.9	32,950	15.4	0.75	T	5-Alm	AS	C		20240315-01
Three Phase Wired for 480V																												
With Cone																												
Aluminum Shutter																												
VMTA72A5C33E-VFD480	72"	3	230/460	8.2/4.1		60	3	1/Var^	A/B		301	46,162	25.8	43,736	23.2	40,304	20.9	36,824	18.2	32,199	15.4	0.74	T	5-Alm	AS	C		20240314-01
Mega Torque																												
Three Phase																												
With Cone																												
Aluminum Shutter																												
VMTA72A5C33E	72"	3	230/460	8.6-8.2/4.1		60	3	1			300	44,955	27.4	42,700	24.7	40,075	22.0	36,565	19.1	32,719	16.4	0.77	T	5-Alm	AS	C		20180521-01
Mega Storm II																												
Three Phase																												
With Cone																												
Aluminum Shutter																												
VMA72A5C33	72"	3	230/460	9/4.5		60	3	1			299	45,173	25.8	42,594	23.3	39,270	20.4	35,419	17.4	30,622	14.9	0.72	B	5-Alm	AS	C		20170320-01
VMA72A5C33-E	72"	3	230/460	8.4/4.2		60	3	1			298	45,921	26.7	43,213	24.2	40,121	21.1	36,484	18.4	30,779	15.3	0.71	B	5-Alm	AS	C		20170322-03
VMA72A5C33-H	72"	3	230/460	8.4/4.2		60	3	1			342	51,865	20.1	49,961	18.6	47,330	16.9	44,214	15.1	41,308	13.7	0.83	B	5-Alm	AS	C		20170317-02
Mega Storm																												
Single Phase																												
No Cone																												
Aluminum Shutter																												
VMSA72A5N31	72"	3	230	14.5		60	1	1			317	45,683	18.7	42,736	16.8	38,960	14.9	33,717	13.1	25,090	9.2	0.59	B	5-Alm	AS	N		20190305-04
With Cone																												
Aluminum Shutter																												

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Part #	60 Hz Motor Label Data ONLY <small>(not from testing)</small>						Speed % or Levels	RPM	0.00"SP		0.05"SP		0.10"SP		0.15"SP		0.20"SP		Air Flow Ratio	Drive	Prop	Shutter	Cone/Hood	Test #	
	Sz	HP	Volts	Amps	NP	Hz/Ph			Spd	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM							Watt
VMSA72A5C31	72"	3	230	14.5	60	1	1	318	47,659	20.2	44,728	18.1	40,792	15.7	34,435	13.4	25,679	9.5	0.57	B	5-Alm	AS C	20190305-02		
Three Phase																									
No Cone																									
Aluminum Shutter																									
VMSA72A5N33	72"	3	230/460	9.0/4.5	60	3	1	337	48,891	17.4	46,150	15.8	42,950	14.3	38,276	12.7	29,782	10.2	0.65	B	5-Alm	AS N	20190306-06		
With Cone																									
Aluminum Shutter																									
VMSA72A5C33	72"	3	230/460	9.0/4.5	60	3	1	340	51,080	18.6	48,016	16.6	44,734	14.9	40,295	13.1	28,722	9.6	0.60	B	5-Alm	AS C	20190306-02		
Direct Drive Storm																									
Single Phase																									
With Cone																									
Aluminum Shutter																									
VSA55G3CPM221AG-SL	55"	2.2 kW	230	13.0	60	1	1Var <sup>A</sup>	100% 90% 80% 70% 60%	34,763 31,346 27,634 24,498 20,538	20.5 24.9 30.7 39.8 51.0	33,326 29,736 26,012 22,191 17,870	18.7 22.3 27.1 32.8 39.8	31,813 27,994 24,160 19,709 14,773	17.1 19.9 23.8 27.0 29.9	30,101 26,417 21,896 16,988	15.5 18.0 20.4 21.9	28,333 23,950 18,874	14.0 15.5 16.6	0.85 0.81 0.73	P	3-Glv	AS C	20241115-01 20241115-02 20241115-03 20241115-04 20241115-05		
Poly Shutter																									
VSP55G3CPM221AG-SL	55"	2.2 kW	230	13.0	60	1	1Var <sup>A</sup>	100% 90% 80% 70% 60%	33,949 30,066 26,337 22,503 18,504	19.3 23.0 27.6 34.0 42.0	32,588 28,576 24,222 19,893 15,219	17.8 20.9 23.9 27.7 31.2	30,891 26,346 22,167 17,076	16.1 18.2 20.7 22.2	29,205 24,359 19,429	14.6 16.1 17.2	27,044 22,084	13.0 14.0	0.83 0.77	P	3-Glv	PS C	20241115-08 20241115-09 20241115-10 20241115-11 20241115-12		
Three Phase																									
With Cone																									
Aluminum Shutter																									
VSA55G3CPM223BG-SL	55"	2.2 kW	208-230	8.6-7.7	60	3	1Var <sup>A</sup>	100% 90% 80% 70% 60%	34,638 30,993 27,754 24,247 20,536	20.9 25.4 32.0 41.1 52.6	32,953 29,478 25,874 21,718 18,010	18.8 22.9 27.7 33.1 41.5	31,370 27,843 23,700 19,708	17.1 20.5 23.7 28.2	29,998 25,651 21,755 16,694	15.8 17.8 20.7 22.2	28,327 23,891 18,802	14.3 16.0 16.9	0.86 0.81 0.73	P	3-Glv	AS C	20241112-05 20241112-06 20241112-07 20241112-08 20241112-09		
VSA55G3CPM223CG-SL	55"	2.2 kW	460	4.0	60	3	1Var <sup>A</sup>	100% 90% 80% 70% 60%	34,582 31,177 27,793 24,000 20,682	21.3 25.5 31.5 39.0 50.0	32,998 29,482 25,821 22,091 18,187	19.2 22.6 27.1 33.3 39.9	31,469 27,735 23,723 19,327 14,969	17.5 20.2 23.4 26.8 30.2	29,894 25,920 21,526 16,893	16.0 18.0 20.1 22.3	28,288 23,808 19,089	14.6 15.8 17.1	0.86 0.81 0.74	P	3-Glv	AS C	20241001-02 20241001-03 20241001-04 20241001-05 20241001-06		
Poly Shutter																									

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Part #	60 Hz Motor Label Data ONLY <small>(not from testing)</small>							Cont. % or compat.	Speed Levels	RPM	0.00"SP				0.05"SP				0.10"SP				0.15"SP				0.20"SP				Air Flow Ratio	Drive Prop	Shutter	Cone/Hood	Test #
	Sz	HP	Volts	Amps <sup>NP</sup>		HzPh	Spd				CFM/	Watt	CFM/	Watt	CFM/	Watt	CFM/	Watt	CFM/	Watt	CFM/	Watt	CFM/	Watt	CFM/	Watt	CFM/	Watt	CFM/	Watt					
				INP	INP																														
VSP55G3CPM223BG-SL	55"	2.2 kW	208-230	8.6-7.7		60	3	1/Var <sup>A</sup>	A	100%	600	33,807	19.8	32,319	18.0	30,577	16.3	28,835	14.7	27,081	13.3	0.84	P	3-Glv	PS	C	D	20241112-12							
										90%	539	30,236	23.8	28,285	20.9	26,516	18.8	24,151	16.2	21,810	14.1	0.77						20241112-13							
										80%	481	26,268	28.0	24,292	24.4	22,242	21.2	19,450	17.5									20241112-14							
										70%	421	22,259	34.1	20,348	29.3	17,193	22.8											20241112-15							
										60%	361	18,675	43.6	15,351	32.1													20241112-16							
VSP55G3CPM223CG-SL	55"	2.2 kW	460	4.0		60	3	1/Var <sup>A</sup>	A	100%	600	34,223	19.6	32,690	18.0	30,974	16.4	29,127	14.8	27,275	13.4	0.83	P	3-Glv	PS	C	D	20241105-01							
										90%	540	30,478	23.3	28,618	20.8	26,701	18.5	24,304	16.1	21,422	13.6	0.75						20241105-02							
										80%	480	26,421	27.6	24,535	24.3	21,823	20.3	19,364	17.1									20241105-03							
										70%	421	22,594	33.6	20,116	27.7	17,438	22.5											20241105-04							
										60%	359	18,146	40.0	15,375	31.2													20241105-05							
Storm, 55" Torque Drive																																			
Three Phase																																			
With Cone																																			
Aluminum Shutter																																			
	55"	2	208-230/460	5.6-5.2/2.6		60	3	1			593	33,122	21.0	31,494	19.1	29,902	17.7	28,244	16.2	26,367	14.7	0.84	T	3-Glv	AS	C			20180831-02						
Poly Shutter																																			
	55"	2	208-230/460	5.6-5.2/2.6		60	3	1			589	31,051	19.1	29,519	17.6	27,986	16.2	26,214	14.7	24,494	13.5	0.83	T	3-Glv	PS	C			20180910-06						
Storm																																			
Single Phase																																			
With Cone																																			
Aluminum Shutter																																			
	55"	1	115/230	9.0/4.5		60	1	1			475	25,321	31.2	23,523	27.3	21,189	23.4	17,963	18.8	13,686	14.0	0.58	B	3-Glv	AS	C			20177025-07						
	55"	1.5	115/208-230	13.6/6.8		60	1	1			556	28,158	24.2	26,332	21.6	24,056	19.0	20,740	15.9	16,654	12.6	0.63	B	3-CA	AS	C			20177030-04						
	55"	1.5	115/208-230	13.6/6.8		60	1	1			515	27,499	27.5	26,155	25.2	23,985	21.8	21,538	18.5	17,809	14.8	0.68	B	3-Glv	AS	C			20177026-01						
	55"	2	115/208-230	18.0/9.6-9.0		60	1	1			638	31,929	16.5	30,136	15.0	28,347	13.8	26,624	12.6	24,645	11.5	0.82	B	3-CA	AS	C			20160518-01						
	55"	2	115/208-230	18.0/9.6-9.0		60	1	1			581	30,328	19.0	29,042	17.7	27,546	16.1	25,762	14.6	23,962	13.2	0.83	B	3-Glv	AS	C			20170831-03						
Poly Shutter																																			
	55"	1	115/230	9.0/4.5		60	1	1			475	24,355	28.9	22,288	25.1	19,799	21.3	17,003	17.6	13,098	13.4	0.59	B	3-Glv	PS	C			20177025-08						
	55"	1.5	115/208-230	13.6/6.8		60	1	1			555	26,804	22.4	24,749	20.0	22,348	17.6	19,648	15.1	14,427	11.0	0.58	B	3-CA	PS	C			20177030-04						
	55"	1.5	115/208-230	13.6/6.8		60	1	1			515	26,613	25.7	24,941	23.1	22,903	20.4	20,296	17.3	17,267	14.3	0.69	B	3-Glv	PS	C			20177027-02						
	55"	2	115/208-230	18.0/9.6-9.0		60	1	1			635	30,511	15.6	28,845	14.3	27,087	13.2	25,242	12.0	22,906	10.7	0.79	B	3-CA	PS	C			20160518-02						
	55"	2	115/208-230	18.0/9.6-9.0		60	1	1			581	29,592	18.0	28,209	16.6	26,601	15.2	24,886	13.8	22,779	12.3	0.81	B	3-Glv	PS	C			20170831-04						
Three Phase																																			
With Cone																																			
Aluminum Shutter																																			
	55"	1.5	208-230/460	4.5/2.2		60	3	1			554	27,982	24.6	26,149	22.2	23,774	19.3	20,805	16.4	16,990	13.3	0.65	B	3-CA	AS	C			20177030-02						
	55"	1.5	208-230/460	4.5/2.2		60	3	1			515	27,692	28.5	25,867	25.3	23,844	22.0	21,441	19.0	18,382	15.7	0.71	B	3-Glv	AS	C			20177027-04						
	55"	2	208-230/460	6.2/3.1		60	3	1			683	34,429	15.7	32,805	14.6	31,060	13.6	29,308	12.6	27,409	11.5	0.84	B	3-CA	AS	C			20160506-03						
	55"	2	208-230/460	6.2/3.1		60	3	1			635	31,919	18.1	30,287	16.7	28,515	15.4	26,558	13.9	24,612	12.7	0.81	B	3-CA	AS	C			20160506-02						
	55"	2	208-230/460	6.2/3.1		60	3	1			568	34,725	18.8	33,118	17.4	31,402	16.0	29,511	14.6	27,610	13.3	0.83	B	3-Glv	AS	C			20177025-04						

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Part #	60 Hz Motor Label Data ONLY						Speed %	RPM	0.00"SP		0.05"SP		0.10"SP		0.15"SP		0.20"SP		Air Flow Ratio	Prop Drive	Shutter	Cone/Hood	Test #				
	Sz	HP	(not from testing)		Amps	NP			Hz	Ph	Spd	CFM	Watt	CFM	Watt	CFM	Watt	CFM						Watt	CFM	Watt	
			Volts	Volts																							
VSA55G3C23E-SL	55"	2	208-230/460	6.2/3.1	60	3	1		554	29,618	25.3	28,076	22.8	26,411	20.6	24,466	18.3	21,960	15.8	0.78	B	3-Glv	AS	C	20171027-05		
Poly Shutter																											
VSP55A3C153-SL	55"	1.5	208-230/460	4.5/2.2	60	3	1		555	27,076	22.8	25,132	20.6	22,624	17.9	19,780	15.4	15,545	12.0	0.62	B	3-CA	PS	C	20171030-01		
VSP55G3C153E-SL	55"	1.5	208-230/460	4.5/2.2	60	3	1		515	26,802	26.7	24,956	23.3	22,746	20.5	20,514	17.9	17,021	14.4	0.68	B	3-Glv	PS	C	20171027-03		
VSP55A3C23-SL	55"	2	208-230/460	6.2/3.1	60	3	1		686	33,550	15.0	31,892	14.0	30,058	12.8	28,251	11.8	26,375	10.9	0.83	B	3-CA	PS	C	20160512-02		
VSP55A3C23E-SL	55"	2	208-230/460	6.2/3.1	60	3	1		636	30,828	17.6	28,937	16.0	27,250	14.7	25,168	13.3	23,057	12.0	0.80	B	3-CA	PS	C	20160512-03		
VSP55G3C23-SL	55"	2	208-230/460	6.2/3.1	60	3	1		568	33,773	17.7	32,205	16.4	30,471	15.1	28,499	13.8	26,586	12.7	0.83	B	3-Glv	PS	C	20171025-03		
VSP55G3C23E-SL	55"	2	208-230/460	6.2/3.1	60	3	1		553	28,430	23.4	26,909	21.3	25,475	19.5	23,294	17.2	20,631	14.8	0.77	B	3-Glv	PS	C	20171027-06		
Legend 36"																											
Single Phase																											
With Cone																											
Aluminum Shutter																											
VLA36S3C11A-PM	36"	1	230	7.8	60	1	1/Nar <sup>A</sup>	A	100%	1,149	14,518	17.9	14,004	16.1	13,154	14.6	12,577	13.4	11,984	12.3	0.86	P	3-SS	AS	C	D	20230512-03
									90%	1,035	12,966	21.9	12,303	19.8	11,654	17.7	11,023	16.0	10,186	14.0	0.83					20230515-01	
									80%	921	11,473	27.8	10,690	24.2	10,003	21.4	9,143	18.5	7,918	15.1	0.74					20230515-02	
									70%	805	9,823	34.5	8,929	29.1	7,917	24.1	6,564	18.8							20230515-03		
									60%	690	8,020	40.7	7,097	33.8	5,623	25.1									20230515-04		
Poly Shutter																											
VLP36S3C11A-PM	36"	1	230	7.8	60	1	1/Nar <sup>A</sup>	A	100%	1,156	14,480	17.6	13,733	15.8	13,085	14.3	12,502	13.0	11,730	11.7	0.85	P	3-SS	PS	C	D	20230515-07
									90%	1,034	12,469	20.9	11,829	18.6	11,171	16.8	10,508	14.9	9,609	13.1	0.81					20230515-08	
									80%	919	11,071	27.0	10,248	23.3	9,352	19.9	8,298	16.7	7,086	13.6	0.69					20230515-09	
									70%	805	9,380	33.2	8,414	27.6	7,210	22.1	5,884	17.1							20230515-10		
									60%	691	7,480	38.6	6,483	31.3	4,720	20.9									20230515-11		
No Cone																											
Aluminum Shutter																											
VLA36S3N11A-PM	36"	1	230	7.8	60	1	1/Nar <sup>A</sup>	A	100%	1,149	13,455	15.4	12,855	14.1	12,294	13.0	11,657	12.0	11,010	11.0	0.86	P	3-SS	AS	N	D	20230516-17
									90%	1,035	11,983	18.9	11,318	17.1	10,656	15.4	9,907	13.8	9,025	12.1	0.80					20230516-18	
									80%	920	10,528	24.4	9,733	21.4	8,753	18.3	7,872	15.9	6,916	13.3	0.71					20230516-19	
									70%	805	8,904	30.2	7,824	25.3	6,751	20.7	5,710	16.6							20230516-20		
									60%	691	7,193	36.6	6,065	29.3	4,782	21.6									20230516-21		
Poly Shutter																											
VLP36S3N11A-PM	36"	1	230	7.8	60	1	1/Nar <sup>A</sup>	A	100%	1,152	13,145	14.7	12,535	13.4	11,872	12.3	11,171	11.2	10,599	10.4	0.85	P	3-SS	PS	N	D	20230516-24
									90%	1,033	11,461	17.8	10,864	16.3	10,117	14.6	9,442	13.2	8,569	11.5	0.79					20230516-25	
									80%	918	10,161	23.5	9,161	19.9	8,362	17.6	7,444	14.9	6,443	12.2	0.70					20230516-26	
									70%	805	8,590	29.0	7,542	24.1	6,433	19.5	5,360	15.3							20230516-27		
									60%	689	6,785	34.2	5,707	27.3	4,392	19.5									20230516-28		
Three Phase																											
With Cone																											
Aluminum Shutter																											

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Part #	60 Hz Motor Label Data ONLY <small>(not from testing)</small>						Sp. Cont.	Speed %	RPM	0.00"SP		0.05"SP		0.10"SP		0.15"SP		0.20"SP		Air Flow	Prop Drive	Shutter	Cone/Hood	Test #				
	Sz	HP	Volts	Amps <sup>NP</sup>	Hz	Ph				Spd	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM						Watt			
VLA36S3C13B-PM	36"	1	230	3.7		60	3	1/Nar <sup>A</sup>	100%	1,151	12,536	18.0	12,072	16.6	11,531	15.2	11,093	14.1	10,386	12.7	0.86	P	3-SS	AS	C	D	20240906-02	
									90%	1,080	11,741	20.6	11,194	18.6	10,663	16.9	10,080	15.4	9,397	13.8	0.84						20240906-03	
									80%	960	10,132	25.4	9,665	23.2	9,001	20.4	8,220	17.7	7,461	15.4	0.77						20240906-04	
									70%	839	8,708	32.6	8,021	28.2	7,109	23.6	5,969	18.8	5,084	15.4	0.63						20240906-05	
									60%	721	7,072	39.5	6,171	32.3	5,084	25.3											20240906-06	
Poly Shutter																												
VLP36S3C13B-PM	36"	1	230	3.7		60	3	1/Nar <sup>A</sup>	100%	1,149	12,452	18.0	11,842	16.2	11,384	14.9	10,771	13.5	10,163	12.3	0.86	P	3-SS	PS	C	D	20240906-09	
									90%	1,078	11,431	19.7	10,894	17.9	10,402	16.4	9,805	14.9	9,067	13.2	0.83						20240906-10	
									80%	959	9,966	24.9	9,392	22.2	8,616	19.2	7,875	16.9	7,023	14.4	0.75						20240906-11	
									70%	839	8,455	31.5	7,671	26.9	6,819	22.8	5,751	18.2	4,716	14.2	0.61						20240906-12	
									60%	721	6,693	37.1	5,845	30.6	4,687	23.2											20240906-13	
No Cone																												
Aluminum Shutter																												
VLA36S3N13B-PM	36"	1	230	3.7		60	3	1/Nar <sup>A</sup>	100%	1,149	12,014	16.5	11,548	15.3	11,011	14.1	10,507	13.1	9,999	12.1	0.87	P	3-SS	AS	N	D	20240910-01	
									90%	1,083	11,249	18.7	10,712	17.1	10,173	15.7	9,619	14.3	9,012	12.9	0.84						20240910-02	
									80%	961	9,810	23.8	9,155	21.2	8,535	19.0	7,827	16.7	7,077	14.6	0.77						20240910-03	
									70%	841	8,268	29.8	7,533	25.9	6,729	22.1	5,878	18.6	4,909	15.0	0.65						20240910-04	
									60%	719	6,647	36.3	5,812	30.4	4,788	24.0											20240910-05	
Poly Shutter																												
VLP36S3N13B-PM	36"	1	230	3.7		60	3	1/Nar <sup>A</sup>	100%	1,149	11,815	15.9	11,247	14.5	10,780	13.5	10,243	12.4	9,745	11.5	0.87	P	3-SS	PS	N	D	20240909-01	
									90%	1,081	10,984	17.7	10,424	16.2	9,828	14.7	9,306	13.6	8,755	12.4	0.84						20240909-02	
									80%	960	9,527	22.6	8,916	20.2	8,230	17.8	7,553	15.8	6,765	13.7	0.76						20240909-03	
									70%	841	8,061	28.5	7,256	24.5	6,501	21.0	5,605	17.4	4,587	13.6	0.63						20240909-04	
									60%	721	6,532	35.2	5,583	28.6	4,451	21.8											20240909-05	
Tornado																												
Single Phase																												
No Cone																												
Aluminum Shutter																												
VFA12A	12"	1/10	115/230	1.42/0.77		60	1	1/Nar <sup>A</sup>	C	1,725	896	11.0	826	9.9	751	8.8	559	6.4	486	5.3	0.59	D	3-Alm	AS	N			20161101-05
VFA12P	12"	1/8	115/230	3.8/1.9		60	1	1/Nar <sup>A</sup>	C	1,700	1,255	7.4	1,162	6.8	1,020	6.0	480	2.9	420	2.5	0.36	D	3-Ply	AS	N			20161101-02
VFA16A	16"	1/8	115/230	3.8/1.9		60	1	1		1,700	2,526	10.4	2,423	9.7	2,315	9.0	2,208	8.4	2,091	7.8	0.86	D	3-Alm	AS	N			20170404-03
VFA16P	16"	1/8	115/230	3.8/1.9		60	1	1		1,700	2,733	9.3	2,575	8.7	2,412	8.2	2,205	7.6	1,896	6.8	0.74	D	3-Ply	AS	N			20170404-01
VFA20P-GS	20"	1/8	115/230	4.0/2.0		60	1	1		1,700	4,403	9.3	4,198	8.8	3,968	8.3	3,743	7.9	3,408	7.3	0.81	D	3-Ply	AS	N			20181106-03
VFA24P-GS	24"	1/2	115/230	5.6/2.8		60	1	1		1,725	6,099	11.0	5,745	10.3	5,320	9.5	4,886	8.7	4,261	7.8	0.74	D	2-Ply	AS	N			20180702-01
VFA24A-GS	24"	1/2	115/230	5.6/2.8		60	1	1		1,725	5,721	12.9	5,531	11.9	5,339	11.0	5,126	10.2	4,905	9.4	0.89	D	3-Alm	AS	N			20180823-02
VFA36G-GS	36"	1/2	115/230	6.1/3.09		60	1	1		825	9,467	18.2	8,580	16.2	7,464	13.9	6,513	11.8	5,496	9.5	0.64	D	3-Glv	AS	N			20181213-06
VFA36N-GS	36"	1/2	115/230	6.1/3.09		60	1	1		825	9,880	17.3	9,855	17.3	9,008	15.5	7,977	13.5	6,881	11.6	0.70	D	2-Nvl	AS	N			20181213-02
VFA50A	50"	1	115/230	9.0/4.5		60	1	1		590	21,334	20.4	19,933	18.5	18,357	16.7	16,447	14.7	14,157	12.6	0.71	B	3-CA	AS	N			20191206-01
VFA50A6	50"	1	115/230	9.0/4.5		60	1	1		468	21,758	20.0	20,383	18.2	18,635	16.5	16,560	14.5	13,786	12.0	0.68	B	6-Glv	AS	N			20191206-02
Poly Shutter																												
VFP12A	12"	1/10	115/230	1.42/0.77		60	1	1/Nar <sup>A</sup>	C	1,725	867	10.4	792	9.2	693	7.9	564	6.4	475	5.1	0.60	D	3-Alm	PS	N			20161101-06

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Part #	60 Hz Motor Label Data ONLY <small>(not from testing)</small>						Sp. Cont.	Speed % or Levels	RPM	0.00"SP		0.05"SP		0.10"SP		0.15"SP		0.20"SP		Air Flow Ratio	Drive Prop	Shutter	Cone/Hood	Test #		
	Sz	HP	Volts	Amps	Hz/Ph	Spd				CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt						CFM	Watt
Poly Shutter																										
VSTP55A3C21-SL	55"	2	115/208-230	18.0/9.6-9.0	60 1	1			633	26,981	14.6	25,043	13.2	23,418	12.1	21,016	10.7	18,774	9.6	0.75	B	3-CA	PS	C	20180123-04	
VSTP55P3CPM221A-SL	55"	2.2	208-240	9.9-11.3	60 1	1/Nar^	A	100%	611	30,902	14.4	29,491	13.3	28,079	12.4	26,759	11.4	25,528	10.6	0.87	P	3-Ply	PS	C	D	20201209-08
								90%	539	26,931	17.8	25,652	16.3	24,261	14.6	22,614	13.3	20,887	11.9	0.81					20201209-09	
								80%	480	23,731	21.9	22,164	19.2	20,411	17.0	18,426	14.9	16,179	12.7	0.73					20201209-10	
								70%	429	21,111	27.2	19,009	22.9	16,762	19.2	14,647	16.4	11,762	12.9	0.62					20201209-11	
								60%	364	17,060	34.3	14,560	27.6	11,830	21.2	8,624	14.9								20201209-12	
Aluminum Shutter																										
VSTA55A3C21-SL	55"	2	115/208-230	18.0/9.6-9.0	60 1	1			634	28,241	15.6	26,494	14.3	24,740	13.0	22,962	11.8	20,757	10.6	0.78	B	3-CA	AS	C		20180123-04
VSTA55P3CPM221A-SL	55"	2.2	208-240	9.9-11.3	60 1	1/Nar^	A	100%	611	31,696	15.5	30,378	14.3	29,290	13.3	27,822	12.4	26,472	11.4	0.87	P	3-Ply	AS	C	D	20201209-01
								90%	542	28,062	19.5	26,488	17.5	25,181	16.0	24,271	14.6	22,277	13.1	0.84					20201209-02	
								80%	479	24,720	24.7	23,205	21.5	21,726	19.3	20,144	17.1	18,222	15.1	0.79					20201209-03	
								70%	429	21,909	29.6	20,530	25.9	18,746	22.2	16,877	19.4	14,122	15.7	0.69					20201209-04	
								60%	360	17,977	39.2	15,922	32.0	13,579	26.1	10,250	19.3								20201209-05	
Three Phase																										
With Cone																										
Poly Shutter																										
VSTP55A3C23-SL	55"	2	208-230/460	6.2/3.1	60 3	1			662	28,330	14.7	26,513	13.4	24,528	12.2	22,823	11.2	20,474	10.0	0.77	B	3-CA	PS	C		20180123-02
VSTP55P3CPM223B-SL	55"	2.2	190-208-240	10.9-11.7-10.1	60 3	1/Nar^	A	100%	615	31,124	14.4	29,858	13.3	28,526	12.2	27,210	11.2	25,772	10.5	0.86	P	3-Ply	PS	C	D	20201208-08
								90%	540	27,195	18.2	25,640	16.0	24,274	14.3	22,770	13.2	20,926	12.0	0.82					20201208-09	
								80%	478	23,726	22.3	22,168	19.2	20,394	17.1	18,529	15.2	16,140	12.9	0.73					20201208-10	
								70%	420	20,392	27.9	18,285	23.3	16,218	19.7	13,961	16.5	11,096	12.9	0.61					20201208-11	
								60%	361	16,853	34.9	14,367	28.1	11,738	21.8	8,205	14.8								20201208-12	
VSTP55P3CPM223C-SL	55"	2.2	380-460	6.2-5.2	60 3	1/Nar^	A	100%	607	30,320	14.5	29,072	13.3	27,925	12.2	26,661	11.3	25,080	10.4	0.86	P	3-Ply	PS	C	D	20201202-01
								90%	541	27,019	17.4	25,541	15.5	24,211	14.0	22,826	13.0	21,185	11.6	0.83					20201202-02	
								80%	476	23,547	21.7	21,826	19.1	20,187	16.9	18,277	14.8	16,159	12.8	0.74					20201202-03	
								70%	421	20,486	26.8	18,499	22.7	16,325	19.2	13,897	15.9								20201202-04	
								60%	363	16,794	32.4	14,448	26.4	11,831	20.9										20201202-05	
VSTP55P3CPM403C-SL	55"	4.0	460	6.15	60 3	1/Nar^	A	100%	599	34,695	12.7	33,547	12.0	32,209	11.3	30,864	10.7	29,452	10.0	0.88	P	3-Ply	PS	C	D	20230425-01
								90%	539	31,010	15.8	29,759	14.8	28,205	13.7	26,646	12.6	24,939	11.7	0.84					20230425-02	
								80%	479	27,235	19.0	25,771	17.4	23,927	15.8	21,999	14.3	19,359	12.5	0.75					20230425-03	
								70%	419	23,353	22.7	21,420	20.1	19,275	17.7	16,614	15.2								20230425-04	
								60%	359	19,435	27.2	17,035	23.1	13,903	18.4										20230426-01	
Aluminum Shutter																										
VSTA55A3C23-SL	55"	2	208-230/460	6.2/3.1	60 3	1			665	29,766	15.7	28,132	14.5	26,365	13.3	24,847	12.3	22,794	11.1	0.81	B	3-CA	AS	C		20180123-03
VSTA55P3CPM223B-SL	55"	2.2	190-208-240	10.9-11.7-10.1	60 3	1/Nar^	A	100%	615	31,882	15.3	30,533	14.1	29,245	13.1	28,128	12.2	26,897	11.4	0.88	P	3-Ply	AS	C	D	20201208-01
								90%	540	27,985	19.6	26,740	17.7	25,247	15.9	23,838	14.3	22,463	13.1	0.84					20201208-02	
								80%	478	24,761	24.8	23,258	21.7	21,745	19.2	20,115	17.1	18,291	14.9	0.79					20201208-03	
								70%	419	21,532	31.7	19,817	26.5	17,983	22.9	15,873	19.5	13,276	16.1	0.67					20201208-04	
								60%	358	17,231	38.8	15,167	30.9	12,956	25.4	10,089	19.1								20201208-05	

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Part #	60 Hz Motor Label Data ONLY <small>(not from testing)</small>						Sp. Cont.	Speed % or Levels	RPM	0.00"SP		0.05"SP		0.10"SP		0.15"SP		0.20"SP		Air Flow Ratio	Prop Drive	Shutter	Cone/Hood	Test #																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	Sz	HP	Volts	Amps	NP	Hz				Ph	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM						Watt																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				

Part #	Sz	60 Hz Motor Label Data ONLY <small>(not from testing)</small>										Sp. Cont.	Speed % or Levels	RPM	0.00"SP		0.05"SP		0.10"SP		0.15"SP		0.20"SP		Air Flow Ratio	Prop Drive	Shutter	Cone/Hood	Test #
		HP	Volts	Amps	NP	Hz	Ph	Spd	CFM	Watt	CFM				Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt						
VFS50CS2	50"	1	230	3.7		60	1	2	High	585	22,406	22.2	20,805	19.7	19,103	17.5	17,338	15.4	15,258	13.3	0.73	B	3-Giv AS	C	20200316-01				
									Low	387	15,049	33.6	12,324	25.7	6,493	12.3									20200316-02				
VFS50CS26	50"	1	230	3.7		60	1	2	High	468	22,656	21.7	21,101	19.5	19,699	17.7	17,978	15.6	15,665	13.3	0.74	B	6-Giv AS	C	20200316-03				
									Low	311	14,517	32.0	12,348	25.6	7,878	14.8									20200316-04				
Three Phase																													
No Cone																													
VNS30S8503	30"	1/2	230/460	2.6/1.3		60	3	1		866	7,845	16.6	7,341	14.9	6,815	13.3	6,142	11.6	5,446	9.9	0.74	D	3-Alm AS	N	20200212-03				
VNS36D3	36"	1/2	230/460	2.6/1.3		60	3	1		859	9,347	19.4	8,645	17.3	7,974	15.4	7,210	13.5	6,363	11.5	0.74	D	3-Giv AS	N	20200214-03				
VNS36S13	36"	1	230/460	3.2/1.6		60	3	1		699	12,929	13.7	12,246	12.7	11,420	11.5	10,442	10.3	8,890	8.5	0.73	B	4-Giv AS	N	20200303-03				
VNS42S3	42"	1	230/460	3.2/1.6		60	3	1		575	16,321	15.9	14,951	14.2	13,484	12.5	11,659	10.6	8,643	7.7	0.58	B	3-Giv AS	N	20200310-04				
VNS503CSCA	50"	1	230/460	3.2/1.6		60	3	1		587	21,235	21.4	19,671	19.1	18,257	17.3	16,727	15.5	14,529	13.3	0.74	B	3-CA AS	N	20200320-07				
VNS503CSCA-E	50"	1	230/460	3.2/1.6		60	3	1		518	18,775	25.8	17,171	23.1	15,288	19.9	13,310	16.7	9,345	11.5	0.54	B	3-CA AS	N	20200320-06				
VNS50S3	50"	1	230/460	3.2/1.6		60	3	1		588	21,427	21.4	19,896	18.9	18,390	16.9	16,697	15.0	14,769	13.0	0.74	B	3-Giv AS	N	20200320-01				
VNS50S3-E	50"	1	230/460	3.2/1.6		60	3	1		518	18,760	25.4	17,131	22.1	15,432	19.8	13,275	16.5	9,538	11.4	0.56	B	3-Giv AS	N	20200320-03				
VNS503S6	50"	1	230/460	3.2/1.6		60	3	1		471	21,597	20.5	20,407	18.9	19,017	17.2	17,413	15.3	15,617	13.1	0.77	B	6-Giv AS	N	20200320-09				
With Cone																													
VFS36CS13	36"	1	230/460	3.2/1.6		60	3	1		695	13,568	14.5	12,761	13.2	11,855	11.8	10,992	10.7	9,962	9.4	0.78	B	4-Giv AS	C	20200219-05				
VFS36CS13-E	36"	1	230/460	3.2/1.6		60	3	1		570	11,282	23.5	10,535	20.9	9,642	18.2	8,531	15.4	6,892	12.5	0.65	B	4-Giv AS	C	20200219-04				
VFS42CS3	42"	1	230/460	3.2/1.6		60	3	1		575	17,158	16.7	15,712	14.7	14,264	12.9	12,425	11.0	9,396	8.2	0.60	B	3-Giv AS	C	20200306-03				
VFS50CS3	50"	1	230/460	3.2/1.6		60	3	1		591	22,578	23.5	21,096	21.0	19,481	18.7	17,825	16.6	15,995	14.6	0.76	B	3-Giv AS	C	20200317-07				
VFS503CS-E	50"	1	230/460	3.2/1.6		60	3	1		553	21,111	26.2	19,660	23.3	18,019	20.8	15,766	17.3	13,165	14.3	0.67	B	3-Giv AS	C	20200317-08				
VFS503CS6	50"	1	230/460	3.2/1.6		60	3	1		474	22,862	22.8	21,477	20.1	19,949	17.9	18,281	15.9	16,285	13.9	0.76	B	6-Giv AS	C	20200317-01				
VFS503CSCA	50"	1	230/460	3.2/1.6		60	3	1		591	22,610	23.6	21,070	21.2	19,397	18.8	17,746	16.8	15,266	14.2	0.72	B	3-CA AS	C	20200317-04				
VFS503CSCA-E	50"	1	230/460	3.2/1.6		60	3	1		519	19,734	28.7	18,118	25.2	16,347	21.9	13,920	18.2	10,305	13.1	0.57	B	3-CA AS	C	20200317-03				
Static HT																													
Three Phase																													
VFC503G6	50"	5	230/460	12.6/6.3		60	3	1		616	28,922	9.3	27,662	8.8	26,570	8.4	25,353	7.9	24,035	7.5	0.87	B	6-Giv AS	N	20240828-02				
VFC553G4	55"	5	230/460	12.6/6.3		60	3	1		612	35,800	10.7	34,407	10.0	33,171	9.3	31,813	8.7	30,232	8.2	0.88	B	4-Giv AS	N	20240925-01				
Wall Master																													
Single Phase																													
VF36DM	36"	1/2	115/230	6.1/3.09		60	1	1		860	9,397	18.0	8,586	15.8	7,716	13.8	6,846	11.9	5,882	9.9	0.68	D	3-Giv AS	N	20220505-01				
VF36GG	36"	1/2	115/230	4.8/2.4		60	1	1		542	8,750	16.3	7,547	13.8	5,916	10.7	4,575	7.9	3,327	5.4	0.44	B	4-Giv AS	N	20211216-01				
VF36GG1	36"	1	115/230	9.0/4.5		60	1	1		612	10,034	16.3	9,078	14.5	7,854	11.9	6,346	9.5	5,072	7.2	0.56	B	4-Giv AS	N	20230908-09				
VF36GG2	36"	1	208-230	4.8/3.75		60	1	2		608	10,110	15.6	9,033	13.5	7,833	11.4	6,213	9.0	4,974	6.9	0.55	B	4-Giv AS	N	20230908-11				
VF50GG	50"	1	115/230	9.0/4.5		60	1	1		597	20,649	20.2	18,788	17.8	16,973	15.5	14,513	12.9	11,626	10.1	0.62	B	3-Giv AS	N	20211227-02				
VF50GG6	50"	1	115/230	9.0/4.5		60	1	1		475	20,962	19.3	19,289	17.1	17,561	15.1	15,639	13.1	13,409	11.1	0.70	B	6-Giv AS	N	20220622-01				
VF50GGCA	50"	1	115/230	9.0/4.5		60	1	1		592	20,275	20.2	18,435	17.8	16,519	15.3	14,089	12.7	11,235	9.9	0.61	B	3-CA AS	N	20230908-05				
VF55GG	55"	2	115/208-230	20/11.3-10		60	1	1		546	26,433	19.8	24,796	17.9	23,061	16.2	21,258	14.6	19,130	12.4	0.77	B	3-Giv AS	N	20210915-04				
Three Phase																													
VF36DM3CF	36"	1/2	230/460	2.6/1.3		60	3	1	Nat <sup>A</sup>	860	9,425	19.6	8,626	17.2	7,788	15.0	6,896	12.9	5,909	10.7	0.69	D	3-Giv AS	N	20220509-02				

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Part #	60 Hz Motor Label Data ONLY (not from testing)										Sp. Cont.	Speed % or Levels	RPM	0.00"SP		0.05"SP		0.10"SP		0.15"SP		0.20"SP		Air Flow Ratio	Prop Drive	Shutter	Con/Hood	Test #			
	Sz	HP	Volts	Amps	NP	Hz	Ph	Spd	CFM/Watt					CFM/Watt				CFM/Watt													
									CFM	Watt				CFM/Watt	CFM	Watt	CFM/Watt	CFM	Watt	CFM/Watt	CFM	Watt	CFM/Watt						CFM	Watt	CFM/Watt
VF36GG3	36"	1	230/460	3.2/1.6	60	3	1Var <sup>Δ</sup>	D			611	10,167	17.4	9,105	15.2	7,974	12.9	6,194	9.9	5,153	7.9	0.57	B	4-Giv	AS	N	20230908-07				
VF503GG	50"	1	230/460	3.2/1.6	60	3	1Var <sup>Δ</sup>	D			586	20,382	20.8	18,608	18.1	16,710	15.6	14,183	12.8	11,044	9.7	0.59	B	3-Giv	AS	N	20230908-01				
VF503GG6	50"	1	230/460	3.2/1.6	60	3	1Var <sup>Δ</sup>	D			471	20,929	19.6	19,085	17.2	17,419	15.2	15,413	13.2	13,215	11.1	0.69	B	6-Giv	AS	N	20230908-04				
VF503GGCA	50"	1	230/460	3.2/1.6	60	3	1Var <sup>Δ</sup>	D			586	20,732	20.0	18,994	18.1	17,208	16.0	14,864	13.5	11,329	10.3	0.60	B	3-CA	AS	N	20230908-02				
VF553GG	55"	2	208-230/460	6.2/3.1	60	3	1Var <sup>Δ</sup>	D			570	29,280	16.0	27,656	14.6	26,084	13.4	24,359	12.2	22,599	11.0	0.82	B	3-Giv	AS	N	20210916-02				

## ES Shutter Fan With Cord

Single Phase

Aluminum Shutter

VES10C	10"	1/8	115	0.9	60	1	3		High	1,737	683	8.3	569	6.8	464	5.5	346	4.0							0.10	D	3-Alm	AS	N	P	20200402-03
									Med	1,611	617	12.3	515	9.9	373	7.2									0.10						20200402-04
									Low	1,505	565	12.8	447	10.1	293	6.4									0.10						20200402-05
VES12C	12"	1/8	115~	1.42	60	1	1Var <sup>Δ</sup>	C		1,710	1,006	11.9	898	10.5	748	8.7	574	6.6	379	4.0	0.42	D	3-Alm	AS	N	P	20200401-01				
VES161C	16"	1/8	115~	1.42	60	1	1Var <sup>Δ</sup>	C		1,727	1,438	14.4	1,289	12.6	1,034	10.1	683	6.6	437	4.0	0.34	D	3-Alm	AS	N	P	20200403-01				
VES201C	20"	1/8	115~	1.42	60	1	1Var <sup>Δ</sup>	C		1,720	1,644	16.1	1,389	13.3	941	9.0	714	6.5	399	3.0	0.29	D	3-Alm	AS	N	P	20200326-01				
VES20C	20"	1/8	115~	3.8	60	1	1			1,704	3,126	10.8	2,875	9.7	2,697	8.9	2,540	8.3	2,435	8.0	0.85	D	3-Alm	AS	N	P	20200326-03				
VES24C	24"	1/2	115~	4.8	60	1	1			1,672	4,548	9.8	4,124	8.7	3,849	7.9	3,629	7.4	3,467	7.0	0.84	D	3-Alm	AS	N	P	20200403-03				
VES30C	30"	1/2	115~	6.1	60	1	1			858	6,785	13.3	6,300	12.1	5,801	11.0	5,123	9.7	3,953	7.0	0.63	D	3-Alm	AS	N	P	20200325-01				

## ES Shutter Fan No Cord

Single Phase

Aluminum Shutter

VES12	12"	1/8	115/230	1.42/0.77	60	1	1Var <sup>Δ</sup>	C				1,710	1,006	11.9	898	10.5	748	8.7	574	6.6	379	4.0	0.42	D	3-Alm	AS	N			20200401-01
VES161	16"	1/8	115/230	1.42/0.77	60	1	1Var <sup>Δ</sup>	C				1,727	1,438	14.4	1,289	12.6	1,034	10.1	683	6.6	437	4.0	0.34	D	3-Alm	AS	N			20200403-01
VES201	20"	1/8	115/230	1.42/0.77	60	1	1Var <sup>Δ</sup>	C				1,720	1,644	16.1	1,389	13.3	941	9.0	714	6.5	399	3.0	0.29	D	3-Alm	AS	N			20200326-01
VES20	20"	1/8	115/230	3.8/1.9	60	1	1					1,704	3,126	10.8	2,875	9.7	2,697	8.9	2,540	8.3	2,435	8.0	0.85	D	3-Alm	AS	N			20200326-03
VES24	24"	1/2	115/230	4.8/2.4	60	1	1					1,672	4,548	9.8	4,124	8.7	3,849	7.9	3,629	7.4	3,467	7.0	0.84	D	3-Alm	AS	N			20200403-03
VES30	30"	1/2	115/230	6.1/3.09	60	1	1					858	6,785	13.3	6,300	12.1	5,801	11.0	5,123	9.7	3,953	7.0	0.63	D	3-Alm	AS	N			20200325-01

Three Phase

Aluminum Shutter

VES203	20"	1/8	230/460	1.24/0.62	60	3	1Var <sup>Δ</sup>	D				1,720	3,180	12.6	3,002	11.6	2,820	10.6	2,688	9.9	2,525	9.0	0.84	D	3-Alm	AS	N			20200327-03
VES243A	24"	1/2	230/460	1.8/0.9	60	3	1Var <sup>Δ</sup>	D				1,728	4,692	10.7	4,250	9.4	3,957	8.6	3,760	8.1	3,605	8.0	0.85	D	3-Alm	AS	N			20200403-06
VES303	30"	1/2	230/460	2.6/1.3	60	3	1Var <sup>Δ</sup>	D				856	6,753	13.0	6,217	11.8	5,749	10.8	5,129	9.6	3,869	7.0	0.62	D	3-Alm	AS	N			20200325-05
VES303-GS	30"	1/2	230/460	2.6/1.3	60	3	1Var <sup>Δ</sup>	D				853	6,777	13.8	6,242	12.4	5,767	11.4	4,817	9.6	2,629	5.0	0.42	D	3-Alm	AS	N			20200406-05

## Indoor/Outdoor ES Shutter Fan With Cord

Single Phase

Aluminum Shutter

VPES12	12"	1/8	115	1.1								High						673	7.8						D	3-Alm	AS	N	P	
												Med						505	6.5											
												Low						303	5.4											

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Part #	60 Hz Motor Label Data ONLY (not from testing)								Sp. Cont.	Speed % or Levels	RPM	0.00"SP		0.05"SP		0.10"SP		0.15"SP		0.20"SP		Air Flow Ratio	Drive	Prop	Shutter	Cone/Hood	Test #		
	Sz	HP	Volts	Amps	NP	Hz	Ph	Spd				CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt							CFM	Watt
VPES16	16"	1/10	115	1.5		60	1	3		High						931	9.1						D 3-Alt	AS	N	P			
										Med						698	7.9												
										Low						419	6.5												
VPES20	20"	1/10	115	1.5		60	1	3		High						2,427	8.0								D 3-Alt	AS	N	P	
										Med						1,820	6.9												
										Low						1,092	5.7												
VPES24	24"	1/8	115	1.8		60	1	2		High						3,464	7.1								D 3-Alt	AS	N	P	
										Low						2,317	6.0												

## Twister

### Single Phase

VFT141130	12"	1/10	115/230	1.42/0.77		60	1	1			1,725	930	10.7	850	9.7	780	8.5	660	6.9	460	4.8	0.54	D 3-Alt	GD	N	
VFT141131	16"	1/8	115/230	3.8/1.9		60	1	1			1,725	2,310	9.4	2,190	8.6	2,050	7.7	1,590	6.3	1,240	4.9	0.57	D 3-Alt	GD	N	12654
VFT141132	20"	1/8	115/230	3.8/1.9		60	1	1			1,725	3,120	12.1	2,930	11.0	2,630	9.7	2,210	8.1	1,990	7.0	0.68	D 3-Alt	GD	N	12650
VFT141133	24"	1/2	115/230	4.8/2.4		60	1	1			1,725	4,820	13.7	4,640	12.7	4,470	11.7	4,290	10.7	4,100	9.9	0.88	D 3-Alt	GD	N	12648

★

## Gold Star WM Light Dep Exhaust Fan

### Single Phase

VF24DMLT1-GS	24"	1/2	115/230	5.88/2.94		60	1	1			1,652	5,381	8.6	5,117	8.2	4,854	7.8	4,604	7.5	4,353	7.2	0.85	D 4-Ply	AS	N	20190513-03
VF30DMLT1-GS	30"	1/2	115/230	6.1/3.09		60	1	1			855	7,584	12.8	7,034	11.5	6,551	10.4	5,946	9.2	5,043	7.5	0.72	D 3-Alt	AS	N	20190509-01

### Three Phase

VF24DMLT3-GS	24"	1/2	208-230/460	2.6/1.3		60	3	1			856	5,152	11.2	4,746	10.2	4,252	9.0	3,669	7.7	2,197	4.9	0.46	D 3-Glv	AS	N	20190624-04
VF30DMLT3-GS	30"	1/2	203/460	2.6/1.3		60	3	1			831	7,810	12.5	7,213	11.2	6,645	10.0	5,998	8.8	5,085	7.3	0.70	D 3-Alt	AS	N	20190510-01

## WM Light Dep Exhaust Fan

### Single Phase

VF24DMLT1	24"	1/2	115/230	4.8/2.4		60	1	1			1,703	4,753	12.7	4,483	11.5	4,267	10.6	4,056	9.7	3,842	9.0	0.86	D 3-Alt	AS	N	20190412-02
VF30DMLT1	30"	1/2	115/230	6.1/3.09		60	1	1			858	7,223	13.5	6,768	12.3	6,216	11.0	5,581	9.5	4,809	8.0	0.71	D 3-Alt	AS	N	20190509-06
VF36GGT1	36"	1	115/208-230	9.0/4.5		60	1	1			760	12,180	10.9	11,580	10.2	10,948	9.4	10,380	8.8	9,679	8.1	0.84	B 4-Glv	AS	N	20190417-02
VF42GGT1	42"	1 1/2	115/230	13.6/6.8		60	1	1			623	15,361	12.8	14,373	11.7	13,064	10.4	11,873	9.4	10,413	8.3	0.72	B 3-Glv	AS	N	20190426-07
VF50GGT1	50"	2	115/208-230	18.0/9.0		60	1	1			634	22,266	12.0	21,019	11.3	19,717	10.5	18,206	9.6	16,638	8.7	0.79	B 3-Glv	AS	N	20190430-12
VF55GGT1	55"	2	115/208-230	18.0/9.0		60	1	1			603	25,404	13.9	24,031	12.8	22,512	11.8	20,883	10.7	18,987	9.7	0.79	B 3-Glv	AS	N	20191211-02

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### Three Phase

VF24DMLT3	24"	1/2	203/460	1.8/0.9		60	3	1			1,744	4,839	12.6	4,641	11.6	4,457	10.7	4,262	9.8	4,088	9.1	0.88	D 3-Alt	AS	N	20190506-04
VF30DMLT3	30"	1/2	203/460	2.6/1.3		60	3	1			854	7,325	15.2	6,780	13.5	6,259	12.1	5,608	10.5	4,719	8.6	0.70	D 3-Alt	AS	N	20190509-11
VF36GGT3	36"	1	230/460	3.2/1.6		60	3	1			754	12,297	11.4	11,655	10.6	11,044	9.9	10,362	9.1	9,720	8.4	0.83	B 4-Glv	AS	N	20190418-02
VF42GGT3	42"	1 1/2	230/460	4.5/2.2		60	3	1			652	16,022	12.4	15,009	11.4	13,957	10.4	12,764	9.5	11,478	8.4	0.76	B 3-Glv	AS	N	20190426-02
VF50GGT3	50"	2	208-230/460	6.2/3.1		60	3	1			690	24,464	11.5	23,289	10.8	22,038	10.1	20,747	9.4	19,307	8.7	0.83	B 3-Glv	AS	N	20190430-04
VF55GGT3	55"	2	208-230/460	6.2/3.1		60	3	1			636	26,931	14.1	25,665	13.1	24,283	12.2	22,773	11.2	21,166	10.3	0.82	B 3-Glv	AS	N	20200131-04

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## Ridge Fan

### Three Phase

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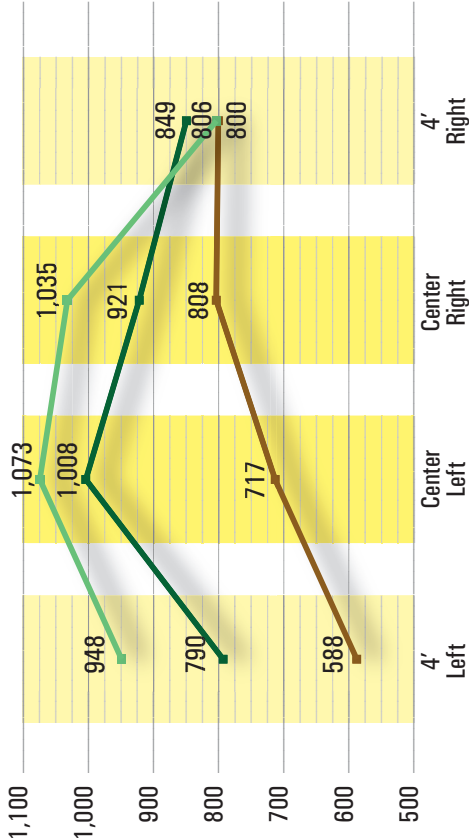
Why does J&D provide so much data?

J&D Manufacturing believes in providing as much information as possible to the customer, so the customer can make the best decision for their facility. We provide this information not only for you to compare our fans with one another, but we encourage you to compare performance data and power requirements with any fan you are considering to purchase. J&D has circulation fans tested at BESS Labs. Customers can trust the integrity of this data. The performance data is accurate and repeatable. We also believe it's important to provide performance and efficiency at multiple different pressures, so you can see how our fans will perform in your facility. Lastly, with this data, a customer can calculate the cost of operating fans.

How does J&D use this data?

Customers will use the data differently than J&D. As mentioned, a customer can compare fans, see performance and efficiency at multiple different pressures, and calculate the operating costs from the data. J&D uses this data to design custom ventilation systems. The data serves as a baseline, and we always try to improve performance with each new fan and system design. We make sure our performance and efficiency are comparable, if not better, than our competition.

Air Velocity Measurements  
(30' from Fan - 2' from Ground)



Tested Fans	4' Left	Center Left	Center Right	4' Right
60" 2 HP, J&D VPX Panel Fan	948	1,008	1,035	806
55" 1 1/2 HP, J&D VPX Panel Fan	790	717	808	849
72" 3 HP, Imported Fan	588	717	808	800

\* All fans tested were mounted at manufacturer's optimal positioning.

Maintain Your Performance

Many times, the performance and/or efficiency of a fan will sell the fan. J&D provides a free service to calculate how much airflow is needed to control an environment based on our customers' specifications. We then design fans that will give the customer their desired airflow. The performance data in this section are from fans that are clean and running optimally. A consumer can only enjoy these performances if they maintain their fan. By maintaining the fan, you maintain the performance.

Keep the Fan Clean

The most important parts of the fan to keep clean are the blades, shutter, guard, and motor. When excess dirt and debris is collected on the blades, shutter, and guard, the airflow will be restricted and the output will suffer. If dirt and debris is collected on the motor, the motor can overheat. By keeping the motor clean, it will help keep the motor cool and running optimally. The motor can be wiped down with a damp cloth or an air hose can help blow collected dirt off from the motor. Unless you have a Gold Star Motor, J&D recommends not washing down the motor. J&D does recommend keeping a maintenance schedule and regularly checking for dirt build-up, and cleaning all fans.

Belt Drive Fans

Regular maintenance of fans will keep the performance strong. During maintenance checks, don't forget to inspect belts. Check for wear, cracks, or damage. If you notice the belt slipping and the fan losing output, it could be time to replace the belt. Contact your local J&D product reseller to order replacement parts. By doing these simple maintenance tasks, your fan's performance will stay strong and the longevity of your fan can increase.



Table DataMark-Up and Abbreviation Guide

★ Experts choice	Sp. Cont. Compat. (Speed Control Compatibility): A = 0-10v B = 4-20mA A/B = 0-10v & 4/20mA C = Triac D = VFD	Drive	Direct
~ These units come pre-wired for 115 Volts (electrician may rewire for 230 Volts)		Prop: CA = Cast-Aluminum Alm = Aluminum Glv = Galvanized Gva = Galvalume Ply = Poly Nyl = Nylon SS = Stainless-Steel	
NP Amp information as documented on motor name plate		Drive: PM-DD = Permanent Magnet	
^ Variable speed fans require separate variable speed control to adjust fan speed			
Cordi: D = Drop Cord Without Plug P = Cord with Plug			

Part #	Sz	HP	60 Hz Motor Label Data ONLY					Speed Control	Speed % or Level	FPM	Thrust (lbf)	Thrust Eff. Ratio	kW	RPM	Thrust CFM	Thrust CFM/Watt	Drive	Prop	Cord	Test #	
			Volts	Amps <sup>NP</sup>	Hz	Ph	Spd														
AirBlaster - 3 Louver Uni-Directional																					
Single Phase																					
VAB58L3S3221AG-CK	58"	2.2 kW	230	13	60	1	1/Var^	A	100%		50.8	23.3	2.18	599	38,857	17.9	PM-DD	3-SS	D	20250120-03 20250120-04	
									90%		42.1	26.1	1.61	541	35,366	21.9					
									80%		33.7	29.3	1.15	481	31,623	27.5					
									70%		26.1	32.8	0.79	420	27,837	35.0					
									60%		19.6	38.7	0.51	360	24,120	47.7					
								50%		14.0	45.8	0.31	300	20,378	66.8						
								40%		9.4	55.7	0.17	241	16,742	98.9						
Three Phase																					
VAB58L3S3223BG-CK	58"	2.2 kW	208-230	8.6-7.7	60	3	1/Var^	A	100%		49.7	21.5	2.31	600	38,430	16.6	PM-DD	3-SS	D	20250117-01 20250117-02	
									90%		40.9	23.9	1.71	540	34,880	20.3					
									80%		33.1	27.3	1.21	480	31,352	25.9					
									70%		26.1	31.4	0.83	421	27,847	33.5					
									60%		19.6	37.1	0.53	360	24,110	45.8					
								50%		14.0	44.7	0.31	300	20,388	65.1						
								40%		9.4	54.8	0.17	241	16,750	97.3						
VAB58L3S3223CG-CK	58"	2.2 kW	460	4.05	60	3	1/Var^	A	100%		50.4	23.2	2.17	600	38,711	17.8	PM-DD	3-SS	D	20250106-01 20250106-02	
									90%		41.4	25.2	1.64	540	35,093	21.3					
									80%		33.1	28.2	1.17	480	31,376	26.7					
									70%		25.5	31.7	0.80	419	27,530	34.2					
									60%		19.1	36.3	0.53	360	23,833	45.3					
								50%		13.4	41.6	0.32	300	19,922	62.0						
								40%		8.6	47.7	0.18	239	15,965	88.8						
AirBlaster - 4 Louver Bi-Directional																					
Single Phase																					
VAB58L4S3221AG-CK	58"	2.2 kW	230	13	60	1	1/Var^	A	100%		50.2	22.9	2.20	600	38,631	17.6	PM-DD	3-SS	D	20250121-01 20250121-02	
									90%		40.8	25.3	1.61	541	34,819	21.6					
									80%		32.7	28.4	1.15	480	31,186	27.0					
									70%		25.2	32.1	0.78	419	27,353	34.9					
									60%		18.8	36.7	0.51	360	23,643	46.2					
								50%		13.2	42.5	0.31	301	19,839	63.6						
								40%		8.5	50.5	0.17	240	15,886	94.6						

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Part #	Sz	HP	60 Hz Motor Label Data ONLY					Speed Control	Speed % or Level	FPM	Thrust (lbf)	Thrust Eff. Ratio	kW	RPM	Thrust CFM	Thrust CFM/Watt	Drive	Prop	Cord	Test #
			Volts	Amps <sup>NP</sup>	Hz	Ph	Spd													
Three Phase																				
VAB58L4S3223BG-CK	58"	2.2 kW	208-230	8.6-7.7	60	3	1/Var <sup>^</sup>	A	100%		50.3	21.3	2.36	599	38,659	16.4	PM-DD	3-SS	D	20250116-03 20250116-04
									90%		42.3	23.6	1.79	542	35,437	19.8				
									80%		33.6	26.9	1.25	481	31,610	25.3				
									70%		26.4	31.5	0.84	420	27,986	33.4				
									60%		20.4	37.8	0.54	360	24,628	45.6				
								50%		14.5	45.5	0.32	300	20,776	65.1					
								40%		9.7	56.2	0.17	241	16,997	98.3					
VAB58L4S3223CG-CK	58"	2.2 kW	460	4.05	60	3	1/Var <sup>^</sup>	A	100%		50.9	23.3	2.19	600	38,887	17.8	PM-DD	3-SS	D	20250107-03 20250107-04
									90%		42.2	25.6	1.65	541	35,419	21.5				
									80%		33.8	28.3	1.19	480	31,713	26.6				
									70%		26.1	32.0	0.82	420	27,840	34.1				
									60%		19.4	36.6	0.53	360	24,028	45.3				
								50%		13.6	42.1	0.32	299	20,133	62.2					
								40%		8.8	49.6	0.18	239	16,157	91.3					
PM Panel Fans - 50" , 55" , & 60"																				
Single Phase																				
VPX50GV3PM221AG	50"	2.2 kW	230	13	60	1	1/Var <sup>^</sup>	A	100%	1,275	39.3	20.0	1.97	600	28,950	14.7	PM-DD	3-Giv	D	c25018 c25019
									90%			1.44	540	26,055	18.2					
									80%			1.01	480	23,160	23.0					
									70%			0.68	420	20,265	30.0					
									60%			0.43	360	17,370	40.9					
								50%				0.25	300	14,475	58.8					
VPX55GV3PM221AG	55"	2.2 kW	230	13	60	1	1/Var <sup>^</sup>	A	100%	1,325	42.9	23.7	1.81	600	33,300	18.5	PM-DD	3-Giv	D	c25029 c25028
									90%			1.32	540	29,970	22.8					
									80%			0.93	480	26,640	28.8					
									70%			0.62	420	23,310	37.6					
									60%			0.39	360	19,980	51.2					
								50%				0.23	300	16,650	73.7					
VPX60GV3PM221AG	60"	2.2 kW	230	13	60	1	1/Var <sup>^</sup>	A	100%	1,260	55.8	23.9	2.34	600	41,550	17.8	PM-DD	3-Giv	D	c25037 c25036
									90%			1.70	540	37,395	22.0					
									80%			1.20	480	33,240	27.8					
									70%			0.80	420	29,085	36.3					
									60%			0.50	360	24,930	49.4					
								50%				0.29	300	20,775	71.1					

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Part #	Sz	HP	60 Hz Motor Label Data ONLY					Speed Control	Speed % or Level	FPM	Thrust (lbf)	Thrust Eff. Ratio	kW	RPM	Thrust CFM	Thrust CFM/ Watt	Drive	Prop	Cord	Test #	
			Volts	Amps <sup>NP</sup>	Hz	Ph	Spd														
Three Phase																					
VPX50GV3PM223BG	50"	2.2 kW	208-230	8.6-7.7	60	3	1/Var^	A	100%	1,315	39.5	20.6	1.92	600	29,000	15.1	PM-DD	3-Glv	D	c25020 c25021	
									90%			1.40	540	26,100	18.6						
									80%			0.98	480	23,200	23.6						
									70%			0.66	420	20,300	30.8						
									60%			0.41	360	17,400	41.9						
VPX50GV3PM223CG	50"	2.2 kW	460	4.05	60	3	1/Var^	A	100%	1,270	38.6	20.1	1.92	600	28,700	15.0	PM-DD	3-Glv	D	c25023 c25022	
									90%			1.40	540	25,830	18.5						
									80%			0.98	480	22,960	23.4						
									70%			0.66	420	20,090	30.5						
									60%			0.41	360	17,220	41.5						
VPX55GV3PM223BG	55"	2.2 kW	208-230	8.6-7.7	60	3	1/Var^	A	100%	1,265	43.4	24.7	1.76	600	33,400	19.1	PM-DD	3-Glv	D	c25026 c25027	
									90%			1.28	540	30,060	23.5						
									80%			0.90	480	26,720	29.7						
									70%			0.60	420	23,380	38.8						
									60%			0.38	360	20,040	52.8						
VPX55GV3PM223CG	55"	2.2 kW	460	4.05	60	3	1/Var^	A	100%	1,325	43.0	24.7	1.74	600	33,250	19.1	PM-DD	3-Glv	D	c25024 c25025	
									90%			1.27	540	29,925	23.5						
									80%			0.89	480	26,600	29.8						
									70%			0.60	420	23,275	38.9						
									60%			0.38	360	19,950	53.0						
VPX60GV3PM223BG	60"	2.2 kW	208-230	8.6-7.7	60	3	1/Var^	A	100%	1,230	55.6	24.7	2.25	600	41,500	18.5	PM-DD	3-Glv	D	c25034 c25035	
									90%			1.64	540	37,350	22.8						
									80%			1.15	480	33,200	28.8						
									70%			0.77	420	29,050	37.6						
									60%			0.49	360	24,900	51.2						
VPX60GV3PM223CG	60"	2.2 kW	460	4.05	60	3	1/Var^	A	100%	1,190	54.7	24.2	2.26	600	41,150	18.2	PM-DD	3-Glv	D	c25032 c25033	
									90%			1.65	540	37,035	22.5						
									80%			1.16	480	32,920	28.4						
									70%			0.78	420	28,805	37.2						
									60%			0.49	360	24,690	50.6						
														300	20,575	72.8					

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Part #	Sz	HP	60 Hz Motor Label Data ONLY					Speed Control.	Speed % or Level	Thrust (lbf)	Thrust Eff. Ratio	kW	RPM	Thrust CFM	Thrust CFM/Watt	Drive	Prop	Cord	Test #
			Volts	Amps <sup>NP</sup>	Hz	Ph	Spd												
50" , 55" , & 60" Panel Fans																			
Single Phase																			
VPX50GV31011	50"	1	115/230	9.0/4.5	60	1	1		950	23.4	22.2	1.06	591	22,300	21.1	Belt	3-GLV		C17492
VPX50GV61011	50"	1	115/230	9.0/4.5	60	1	1		830	23.7	21.3	1.11	471	22,500	20.2	Belt	6-GLV		C17493
VPX50CA31011	50"	1	115/230	9.0/4.5	60	1	1		950	24.6	22.9	1.07	590	23,200	21.7	Belt	3-CA		C17489
VPX50CA31011-E	50"	1	115/230	9.0/4.5	60	1	1		960	22.1	23.9	0.92	557	22,000	23.8	Belt	3-CA		C17490
VPX50GV61011-E	50"	1	115/230	9.0/4.5	60	1	1		780	21.0	24.2	0.87	436	21,200	24.3	Belt	6-GLV		C17494
VPX55GV31511-E	55"	1.5	115/208-230	13.6/6.8	60	1	1		1,150	33.5	23.3	1.44	580	29,700	20.6	Belt	3-GLV		C17509
VPX55CA31511	55"	1.5	115/208-230	13.6/6.8	60	1	1		1,080	32.1	22.5	1.43	580	29,100	20.4	Belt	3-CA		C17508
VPX55CA31511-E	55"	1.5	115/208-230	13.6/6.8	60	1	1		1,020	28.5	23.6	1.21	550	27,400	22.7	Belt	3-CA		C17507
VPX55GV51511	55"	1.5	115/208-230	13.6/6.8	60	1	1		980	32.4	23.5	1.38	466	29,200	21.2	Belt	5-GLV		C17506
VPX55CA32011	55"	2	115/208-230	18/9.6-9.0	60	1	1		1,260	35.3	20.1	1.75	582	30,400	17.3	Belt	3-CA		C14063
VPX55GV32011	55"	2	115/208-230	18/9.6-9.0	60	1	1		1,190	32.7	22.9	1.43	553	29,200	20.5	Belt	3-GLV		C14065
VPX55GV52011	55"	2	115/208-230	18/9.6-9.0	60	1	1		1,030	32.7	21.1	1.55	469	29,500	19.1	Belt	5-GLV		C16419
VPX60GV32011	60"	2	115/208-230	18/9.6-9.0	60	1	1		990	38.1	22.6	1.68	457	34,700	20.6	Belt	3-GLV		C17517
VPX60GV32011-E	60"	2	115/208-230	18/9.6-9.1	60	1	1		900	31.6	23.9	1.32	412	31,600	23.9	Belt	3-GLV		C17518
Three Phase																			
VPX50GV31031	50"	1	230/460	3.2/1.6	60	3	1		1,020	22.9	21.4	1.07	584	22,200	20.7	Belt	3-GLV		C17480
VPX50GV31031-E	50"	1	230/460	3.2/1.6	60	3	1		950	20.9	24.5	0.85	555	21,200	24.9	Belt	3-GLV		C17481
VPX50GV61031	50"	1	230/460	3.2/1.6	60	3	1		830	23.1	22.0	1.05	470	22,300	21.2	Belt	6-GLV		C17483
VPX50GV61031-E	50"	1	230/460	3.2/1.6	60	3	1		830	20.4	23.7	0.86	434	20,900	24.3	Belt	6-GLV		C17484
VPX50CA31031	50"	1	230/460	3.2/1.6	60	3	1		1,050	24.2	23.3	1.04	585	23,000	22.2	Belt	3-CA		C17488
VPX50GV31531	50"	1.5	208-230/460	4.5/2.2	60	3	1		970	22.2	23.9	0.93	554	21,600	23.3	Belt	3-GLV		C18033
VPX55CA31531	55"	1.5	208-230/460	4.5/2.2	60	3	1		1,070	30.9	22.6	1.37	578	28,600	20.8	Belt	3-CA		C17503
VPX55CA31531-E	55"	1.5	208-230/460	4.5/2.2	60	3	1		1,020	28.5	24.2	1.18	548	27,400	23.2	Belt	3-CA		C17504
VPX55GV31531	55"	1.5	208-230/460	4.5/2.2	60	3	1		1,110	33.9	23.9	1.42	578	29,900	21.1	Belt	3-GLV		C17500
VPX55GV51531	55"	1.5	208-230/460	4.5/2.2	60	3	1		990	32.1	24.1	1.33	463	29,100	21.8	Belt	5-GLV		C17505
VPX55CA32031	55"	2	208-230/460	6.2/3.1	60	3	1		1,140	32.7	22.5	1.45	580	29,600	20.4	Belt	3-CA		C14278
VPX55CA32031-E	55"	2	208-230/460	6.2/3.1	60	3	1		1,040	29.3	24.1	1.21	545	28,000	23.0	Belt	3-CA		C14279
VPX55GV32031	55"	2	208-230/460	6.2/3.1	60	3	1		1,210	35.8	25.0	1.43	582	30,600	21.4	Belt	3-GLV		C14068
VPX55GV32031-H	55"	2	208-230/460	6.2/3.1	60	3	1		1,130	37.7	20.2	1.87	567	31,400	16.9	Belt	3-GLV		C18259
VPX55GV52031	55"	2	208-230/460	6.2/3.1	60	3	1		1,040	31.4	23.8	1.32	467	29,000	22.0	Belt	5-GLV		C14275
VPX60GV32031	60"	2	208-230/460	6.2/3.1	60	3	1		1,150	49.4	22.2	2.22	519	39,500	17.8	Belt	3-GLV		C17515
VPX60GV32031-E	60"	2	208-230/460	6.2/3.1	60	3	1		1,030	37.7	25.9	1.46	453	34,500	23.7	Belt	3-GLV		C17513
24" & 36" Panel Fans - Gold Star																			
Single Phase																			
VP36D-GS	36"	1/2	115/230	6.1/3.09	60	1	1		950	10.4	19.3	0.54	859	10,840	20.1	Direct	3-GLV		C22007
Three Phase																			
VP243G-GS	24"	1/2	230/460	2.6/1.3	60	3	1/Var^	D	1,040	6.7	15.7	0.43	851	5,780	13.5	Direct	3-GLV		C22009
VP363D-GS	36"	1/2	230/460	2.6/1.3	60	3	1/Var^	D	790	9.8	21.0	0.47	853	10,590	22.7	Direct	3-GLV		C19341

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Part #	Sz	HP	60 Hz Motor Label Data ONLY					Speed % or Control Level	FPM	Thrust (lbf)	Thrust Eff. Ratio	kW	RPM	Thrust CFM	Thrust CFM/ Watt	Drive	Prop	Cord	Test #
			60 Hz Motor Label Data ONLY																
			Volts	Amps <sup>NP</sup>	Hz	Ph	Spd												
24" & 36" Panel Fans																			
Single Phase																			
VP24	24"	1/2	115/230	4.8/2.4	60	1	1		1,320	5.9	16.5	0.35	1,701	5,450	15.4	Direct	3-Alm		C16428
*	VP36D	36"	115/230	6.1/3.09	60	1	1		980	10.2	19.6	0.52	854	10,600	20.4	Direct	3-Glv		C18002
	VP36	1/2	115/230	6.6/3.3	60	1	1		790	10.4	18.4	0.57	579	11,030	19.4	Belt	4-Glv		C08009
*	VP361	36"	115/208-230	9.0/4.5	60	1	1		1,020	15.4	19.2	0.80	680	13,000	16.3	Belt	4-Glv		C18008
Three Phase																			
	VP243G	24"	230/460	2.6/1.3	60	3	1		1,150	6.4	15.0	0.43	859	5,740	13.4	Direct	3-Glv		C19338
	VP363D	36"	230/460	2.6/1.3	60	3	1		860	10.1	21.5	0.47	856	10,470	22.3	Direct	3-Glv		C18012
Whirl-Wind																			
Single Phase																			
	VG24DM	24"	115/230	4.8/2.4	60	1	1		970	5.3	14.2	0.37	1,688	5,170	13.9	Direct	3-Alm		C21190
*	VG36DM	36"	115/230	6.1/3.9	60	1	1		600	8.21	15.5	0.53	857	9,680	18.2	Direct	3-Glv		C21186
	VG36DM-22	36"	115/230	6.1/3.9	60	1	1		730	9.1	17.3	0.53	859	10,190	19.2	Direct	3-Glv		C21187
	VG36VF36GBM	36"	115/230	6.6/3.3	60	1	1		660	8.7	14.8	0.59	572	9,800	16.8	Belt	4-Glv		C09024
	VG36VF36	36"	115/208-230	9.0/4.5	60	1	1		905	16.6	12.9	1.29	786	13,540	10.5	Belt	4-Glv		
	VG50DM	50"	230/220	5.0/4.7	60	1	1		680	13.0	13.9	0.94	842	17,000	18.2	Direct	3-Glv		C15238
	VG50	50"	115/208-230	9.0/4.5	60	1	1		820	19.8	19.3	1.03	589	20,800	20.2	Belt	3-Glv		C21192
	VG50-24	50"	115/208-230	9.0/4.5	60	1	1		870	22.2	21.5	1.03	588	22,000	21.4	Belt	3-Glv		C21195
	VG50CA	50"	115/208-230	9.0/4.5	60	1	1		820	20.6	20.3	1.02	589	21,400	21.1	Belt	3-CA		C21193
	VG50G6	50"	115/208-230	9.0/4.5	60	1	1		750	20.3	20.9	0.97	471	21,100	21.7	Belt	6-Glv		C21194
	VG55	55"	2	115/208-230	20/11.3-10	60	1	1		31.2	19.9	1.57	578	28,876	18.4	Belt	3-Glv		20210915-01
Three Phase																			
	VG24DM3CF	24"	230/460	2.6/1.3	60	3	1/Var <sup>^</sup>	D	640	4.1	11.7	0.44	859	5,090	11.6	Direct	3-Gva		C21191
	VG36DM3CF	36"	230/460	2.6/1.3	60	3	1/Var <sup>^</sup>	D	610	8.6	18.0	0.48	852	9,860	20.8	Direct	3-Glv		C21189
	VG36DM3F-22	36"	230/460	2.6/1.3	60	3	1/Var <sup>^</sup>	D	780	9.1	19.5	0.47	853	10,150	21.8	Direct	3-Glv		C21188
*	VG50DM3B	50"	230/460	5.6/2.3	60	3	1/Var <sup>^</sup>	D	650	13.6	15.0	0.91	841	17,400	19.2	Direct	3-Glv		C15239
	VG503	50"	230/460	3.2/1.6	60	3	1/Var <sup>^</sup>	D	830	20.7	21.6	0.96	585	21,300	22.1	Belt	3-Glv		C21196
	VG503CA	50"	230/460	3.2/1.6	60	3	1/Var <sup>^</sup>	D	780	20.2	21.1	0.95	586	21,200	22.2	Belt	3-CA		C21197
	VG503G6	50"	208-230/460	3.2/1.6	60	3	1/Var <sup>^</sup>	D	740	19.5	20.9	0.94	468	20,600	22.1	Belt	6-Glv		C21198
	VG553	55"	2	208-230/460	6.2/3.1	60	3	1/Var <sup>^</sup>	D	32.8	18.2	1.81	570	29,629	16.4	Belt	3-Glv		20210917-03
Barnstormer - Gold Star																			
Single Phase																			
*	VBS20-GS	20"	115/230	4.0/2.0	60	1	1/Var <sup>^</sup>	C	1,170	4.5	10.7	0.42	1,668	3,920	9.3	Direct	3-Alm		C19038
	VBS24-GS	24"	115/230	5.88/2.94	60	1	1		1,430	6.9	13.1	0.53	1,665	6,070	11.5	Direct	3-Alm		C19033
	VBS36A-GS	36"	115/230	6.1/3.09	60	1	1		1,020	8.4	16.5	0.51	858	9,650	19.0	Direct	3-Glv		C19061
Three Phase																			
	VBS36CF-GS	36"	230/460	2.6/1.3	60	3	1		970	8.6	18.9	0.45	857	9,740	21.5	Direct	3-Glv		C19062

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Part #	Sz	HP	60 Hz Motor Label Data ONLY					Speed % or Level	Speed Control Compat.	Thrust (lbf)	Thrust Eff. Ratio	kW	RPM	Thrust CFM	Thrust CFM/ Watt	Drive	Prop	Cord	Test #	
			Volts	Amps <sup>NP</sup>	Hz	Ph	Spd													
Barnstormer																				
Single Phase																				
VBS12	12"	1/10	115/230	1.42/1.77	60	1	1/Var^	C		630	0.5	4.6	0.11	1,690	810	7.2	Direct	3-Alm		C21181
VBS20	20"	1/3	115/230	3.8/1.9	60	1	1			1,090	3.8	12.2	0.31	1,691	3,650	11.8	Direct	3-Alm		C16431
VBS24	24"	1/2	115/230	4.8/2.4	60	1	1			1,230	5.4	12.4	0.44	1,666	5,250	12.1	Direct	3-Alm		C16430
VBS36A	36"	1/2	115/230	6.1/3.09	60	1	1			1,180	9.3	16.3	0.57	844	10,050	17.6	Direct	3-Glv		C18016
Three Phase																				
VBS203	20"	1/3	230/460	1.24/0.62	60	3	1			1,290	3.7	12.8	0.29	1,720	3,580	12.2	Direct	3-Alm		C19030
VBS243A	24"	1/2	230/460	1.8/0.9	60	3	1			1,420	6.2	14.2	0.44	1,710	5,470	12.5	Direct	3-Alm		C18028
VBS36CF	36"	1/2	230/460	2.6/1.3	60	3	1			1,140	9.2	18.7	0.49	846	10,000	20.3	Direct	3-Glv		C18019
Stainless-Steel Basket Fan																				
Single Phase																				
VDB20SS-GS	20"	1/3	115/230	4.0/2.0	60	1	1			1,100	3.79	10.4	0.36	1,673	3,640	10.0	Direct	3-SS		C22375
Indoor/Outdoor UL507 Certified Wall, Ceiling, or Pole Mount Fans																				
Single Phase																				
White																				
POW14	14"	1/30	115	1.2	60	1	3	High Med Low		650 580 500	0.7 0.6 0.4	8.7 8.9 7.9	0.08 0.07 0.06	1,465 1,339 1,133	1,090 1,000 870	13.6 15.2 15.5	Direct	3-Alm	P	C0837
POW18	18"	1/8	115	2.0	60	1	3	High Med Low		755 660 435	1.7 1.3 0.7	10.9 8.9 6.4	0.16 0.14 0.11	1,550 1,339 994	2,210 1,870 1,420	13.9 13.4 12.7	Direct	3-Alm	P	C0838
Black																				
POW18B	18"	1/8	115	2.0	60	1	3	High Med Low		755 660 435	1.7 1.3 0.7	10.9 8.9 6.4	0.16 0.14 0.11	1,550 1,339 994	2,210 1,870 1,420	13.9 13.4 12.7	Direct	3-Alm	P	C0838
Indoor/Outdoor UL507 Certified Oscillating Wall Mount Fans																				
Single Phase																				
Oscillating																				
POW24OSC	24"	280 W	120	2.7	60	1	3	High Med Low		570 470 430	2.5 1.8 1.3	9.4 9.8 8.6	0.26 0.18 0.16	1,070 873 752	3,470 2,930 2,550	13.1 16.3 16.4	Direct	3-Alm	P	C21007
POW30OSC	30"	285 W	120	2.7	60	1	3	High Med Low		630 550 500	3.0 2.1 1.4	11.1 10.8 9.0	0.27 0.19 0.16	1,088 883 750	4,790 3,960 3,310	17.7 20.6 20.7	Direct	3-Alm	P	C21008

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Part #	Sz	HP	60 Hz Motor Label Data ONLY					Speed % or Level	Speed Control	Thrust (lbf)	Thrust Eff. Ratio	kW	RPM	Thrust CFM	Thrust CFM/ Watt	Drive	Prop	Cord	Test #
			Volts	Amps <sup>NP</sup>	Hz	Ph	Spd												
With Cord Wired for 115V																			
VPRF24-C115	24"	1/2	115	4.8/2.4	60	1	1			890	4.7	10.5	1,730	4,890	10.9	Direct	3-Alm	P	C08024
VPRF36-C115	36"	1/2	115	6.1/3.09	60	1	1			750	7.7	14.2	833	9,390	17.4	Direct	3-Glv	P	C19343
With Cord Wired for 230V																			
VPRF24-C230	24"	1/2	230	4.8/2.4	60	1	1			890	4.7	10.5	1,730	4,890	10.9	Direct	3-Alm	P	C08024
VPRF36-C230	36"	1/2	230	6.1/3.09	60	1	1			720	8.3	14.7	832	9,750	17.4	Direct	3-Glv	P	C19342
Three Phase																			
Without Cord																			
VPRF243	24"	1/2	230/460	2.6/1.3	60	3	1			630	5.3	11.7	857	5,110	11.2	Direct	3-Glv		C21010
VPRF363	36"	1/2	230/460	2.6/1.3	60	3	1			730	8.5	15.4	846	9,680	17.5	Direct	3-Glv		C21011
Poly Stormer - Gold Star																			
Single Phase																			
VPS36A-GS	36"	1/2	115/230	6.1/3.09	60	1	1			810	6.4	13.0	861	8,450	17.1	Direct	3-Glv		C19063
Three Phase																			
VPS36CF-GS	36"	1/2	230/460	2.6/1.3	60	3	1/Var^	D		690	6.6	14.6	857	8,560	18.9	Direct	3-Glv		C19064
Poly Stormer																			
Single Phase																			
VPS36A	36"	1/2	115/230	6.1/3.09	60	1	1			780	5.9	11.6	854	8,210	16.3	Direct	3-Glv		C19335
Three Phase																			
VPS36CF	36"	1/2	230/460	2.6/1.3	60	3	1			860	6.2	13.3	854	8,460	18.7	Direct	3-Glv		C19337
High Output Deluxe Basket Fans - Gold Star																			
Single Phase																			
With Cord ~																			
VDB20-GS	20"	1/3	115/230	4.0/2.0	60	1	1			1,090	4.5	10.2	1,659	3,920	8.9	Direct	3-Alm	P	C22002
VDB24-GS	24"	1/2	115/230	5.6/2.8	60	1	1			1,270	6.0	11.9	1,675	5,680	11.3	Direct	3-Alm	P	C22004
VDB30-GS	30"	1/2	115/230~	6.1/3.09	60	1	1			720	5.3	10.3	859	6,380	12.4	Direct	3-Alm	P	C22005
VDB36-GS	36"	1/2	115/230~	6.1/3.09	60	1	1			900	7.5	14.2	858	9,160	17.4	Direct	3-Glv	P	C22006
Three Phase																			
No Cord																			
VDB303-GS	30"	1/2	230/460	2.6/1.3	60	3	1	D		710	5.2	11.2	851	6,380	13.7	Direct	3-Alm		C22011
VDB363-GS	36"	1/2	230/460	2.6/1.3	60	3	1	D		1,080	8.6	15.5	835	9,810	17.7	Direct	3-Alm		C22012
High Output Deluxe Basket Fans																			
Single Phase																			
With Cord~																			
VDB20	20"	1/3	115~	3.5	60	1	1			870	3.2	8.7	1,685	3,340	9.1	Direct	3-Alm	P	C10032
VDB24	24"	1/2	115~	4.8	60	1	1			1,150	5.8	11.6	1,709	5,370	10.8	Direct	3-Alm	P	C08033
VDB30	30"	1/2	115/230~	6.1/3.09	60	1	1			720	5.3	9.3	826	6,500	11.4	Direct	3-Alm	P	C19333
VDB36	36"	1/2	115/230~	6.1/3.09	60	1	1			920	7.9	14.3	852	9,520	17.3	Direct	3-Glv	P	C19334

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Part #	Sz	HP	60 Hz Motor Label Data ONLY					Speed Control	Speed % or Level	FPM	Thrust (lbf)	Thrust Eff. Ratio	kW	RPM	Thrust CFM	Thrust CFM/Watt	Drive	Prop	Cord	Test #
			Volts	Amps <sup>NP</sup>	Hz	Ph	Spd													
Three Phase																				
No Cord																				
VDB303	30"	1/2	230/460	2.6/1.3	60	3	1			770	5.7	10.9	0.52	850	6,730	13.0	Direct	3-Alm		C18267
VDB363	36"	1/2	230/460	2.6/1.3	60	3	1			920	7.8	15.9	0.49	848	9,500	19.4	Direct	3-Glv		C19336
Heavy-Duty Industrial Basket Fans																				
Single Phase																				
Non-Oscillating Black Models																				
VDF20HOB2	20"	1/4	115	3	60	1	2		High	710	1.9	9.9	0.19	1,133	2,550	13.3	Direct	3-Alm	P	C21002a
								Low		520	1.1	7.0	0.15	862	1,900	12.7				
VDF24HOB2	24"	1/4	115	3	60	1	2		High	810	2.8	11.6	0.24	1,088	3,700	15.5	Direct	3-Alm	P	C21003a
								Low		400	0.9	5.4	0.16	586	2,050	13.0				
Non-Oscillating White Models																				
VDF20HOW2	20"	1/4	115	3	60	1	2		High	710	1.9	9.9	0.19	1,133	2,550	13.3	Direct	3-Alm	P	C21002b
								Low		520	1.1	7.0	0.15	862	1,900	12.7				
VDF24HOW2	24"	1/4	115	3	60	1	2		High	810	2.8	11.6	0.24	1,088	3,700	15.5	Direct	3-Alm	P	C21003b
								Low		400	0.9	5.4	0.16	586	2,050	13.0				
Oscillating Black Models																				
VDF201HOB2	20"	1/4	115	2.5	60	1	3		High	740	1.6	8.9	0.18	1,157	2,340	13.0	Direct	3-Alm	P	C21004a
								Med		730	1.5	13.6	0.11	1,115	2,280	20.4				
								Low		730	1.5	15.3	0.10	1,087	2,250	23.2				
VDF241HOB2	24"	1/4	115	2.5	60	1	3		High	800	3.0	12.2	0.24	1,091	3,820	15.7	Direct	3-Alm	P	C21005a
								Med		740	2.3	13.7	0.17	931	3,350	20.2				
								Low		710	1.9	13.2	0.14	845	3,050	21.5				
VDF301HOB2	30"	1/2	115	6	60	1	3		High	800	5.5	11.8	0.47	1,117	6,520	14.0	Direct	3-Alm	P	C21006a
								Med		760	4.7	11.7	0.41	1,020	6,060	14.9				
								Low		540	3.2	8.5	0.38	818	4,970	13.2				
Oscillating White Models																				
VDF201HOW2	20"	1/4	115	2.5	60	1	3		High	740	1.6	8.9	0.18	1,157	2,340	13.0	Direct	3-Alm	P	C21004b
								Med		730	1.5	13.6	0.11	1,115	2,280	20.4				
								Low		730	1.5	15.3	0.10	1,087	2,250	23.2				
VDF241HOW2	24"	1/4	115	2.5	60	1	3		High	800	3.0	12.2	0.24	1,091	3,820	15.7	Direct	3-Alm	P	C21005b
								Med		740	2.3	13.7	0.17	931	3,350	20.2				
								Low		710	1.9	13.2	0.14	845	3,050	21.5				
Heavy-Duty Industrial Pedestal Fan																				
Single Phase																				
Non-Oscillating																				
VDF20WB2	20"	1/4	115	3	60	1	2		High	710	1.9	9.9	0.19	1,133	2,550	13.3	Direct	3-Alm	P	C21002c
								Low		520	1.1	7.0	0.15	862	1,900	12.7				
VDF24WB2	24"	1/4	115	3	60	1	2		High	810	2.8	11.6	0.24	1,088	3,700	15.5	Direct	3-Alm	P	C21003c
								Low		400	0.9	5.4	0.16	586	2,050	13.0				

\*

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Part #	Sz	HP	60 Hz Motor Label Data ONLY					Speed % or Level	Thrust (lbf)	Thrust Eff. Ratio	kW	RPM	Thrust CFM	Thrust CFM/ Watt	Drive	Prop	Cord	Test #	
			Volts	Amps <sup>NP</sup>	Hz	Ph	Spd												
Oscillating																			
VDF201WB2	20"	1/4	115	2.5	60	1	3	High Med Low	740 730 730	1.6 1.5 1.5	8.9 13.6 15.3	0.18 0.11 0.10	1,157 1,115 1,087	2,340 2,280 2,250	13.0 20.4 23.2	Direct	3-Alm	P	C21004c
VDF241WB2	24"	1/4	115	2.5	60	1	3	High Med Low	800 740 710	3.0 2.3 1.9	12.2 13.7 13.2	0.24 0.17 0.14	1,091 931 845	3,820 3,350 3,050	15.7 20.2 21.5	Direct	3-Alm	P	C21005c
VDF301WB2	30"	1/2	115	4.5	60	1	3	High Med Low	800 760 540	5.5 4.7 3.2	11.8 11.7 8.5	0.47 0.41 0.38	1,117 1,020 818	6,520 6,060 4,970	14.0 14.9 13.2	Direct	3-Alm	P	C21006b
HAF Stir Fan with Wide Guard																			
Single Phase																			
VS183	18"	1/8	115	0.9	60	1	3	High Med Low	510 410 410	0.9 0.8 0.7	12.1 13.2 12.4	0.07 0.06 0.06	1,705 1,582 1,487	1,560 1,460 1,390	21.3 24.8 24.5	Direct	3-Alm	P	C21009
HAF Panel Fan with Wide Guard - Fiberglass Housing - Gold Star																			
Single Phase																			
VPP20F13P-GS	20"	1/8	115/230	4.0/2.0	60	1	1	C	1,340	5.3	17.1	0.31	1,721	4,250	13.8	Direct	3-Ply		C19053
VPP24F13P-GS	24"	1/8	115/230	4.0/2.0	60	1	1	C	1,030	4.3	15.3	0.28	1,736	4,660	16.6	Direct	3-Ply		C21184
VPP24F12P-GS	24"	1/2	115/230	5.88/2.94	60	1	1		1,450	7.8	15.3	0.51	1,671	6,180	12.2	Direct	4-Ply		C19054
HAF Panel Fan with Wide Guard - Fiberglass Housing																			
Single Phase																			
VPP20F13P	20"	1/8	115/230	3.8/1.9	60	1	1		1,340	4.9	16.4	0.30	1,694	4,070	13.7	Direct	3-Ply		C19041
VPP24F13P	24"	1/8	115/230	3.8/1.9	60	1	1		1,160	4.5	17.1	0.27	1,714	4,730	17.8	Direct	3-Ply		C19042
VPP24F12P	24"	1/2	115/230	4.8/2.4	60	1	1		1,470	7.5	14.9	0.50	1,635	6,080	12.1	Direct	3-Ply		C19045
HAF Panel Fan with Wide Guard - Galvanized Housing - Gold Star																			
Single Phase																			
VPP20G13A-GS	20"	1/8	115/230	4.0/2.0	60	1	1/Var^	C	1,080	5.0	13.9	0.36	1,700	4,140	11.5	Direct	3-Alm		C19057
VPP24G13A-GS	24"	1/8	115/230	4.0/2.0	60	1	1/Var^		1,010	3.3	10.8	0.30	1,725	4,020	13.3	Direct	3-Alm		C19060
VPP24G12A-GS	24"	1/2	115/230	5.88/2.94	60	1	1		1,350	6.1	17.0	0.36	1,722	5,470	15.3	Direct	3-Alm		C19058
HAF Panel Fan with Wide Guard - Galvanized Housing																			
Single Phase																			
VPP20G13A	20"	1/8	115/230	3.8/1.9	60	1	1		1,040	3.4	12.8	0.27	1,710	3,430	12.8	Direct	3-Alm		C19049
VPP24G13A	24"	1/8	115/230	3.8/1.9	60	1	1		870	3.3	11.5	0.29	1,701	4,030	14.0	Direct	3-Alm		C19048
VPP24G12A	24"	1/2	115/230	4.8/2.4	60	1	1		1,270	4.7	12.6	0.37	1,695	4,790	12.9	Direct	3-Alm		C19051

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Part #	Sz	HP	60 Hz Motor Label Data ONLY				Speed Control % or Level	FPM	Thrust (lbf)	Thrust Eff. Ratio	kW	RPM	Thrust CFM	Thrust CFM/Watt	Drive	Prop	Cord	Test #
			Volts	Amps <sup>NP</sup>	Hz	Ph												
60" Premium Indoor/Outdoor UL507 Ceiling Fan																		
Single Phase																		
CF60A	60"		115	0.74	60	1	1/Var^					330	9,415		Direct	3-Stl	P	
Fiberglass Funnel Fan - Gold Star																		
Single Phase																		
VU20F2-GS	20"	1/2	115/230	5.88/2.94	60	1	1		930	5.4	0.57	1,666	4,330	7.7	Direct	3-Alm		C19320
Fiberglass Funnel Fans																		
Single Phase																		
VU16F	16"	1/3	115/230	3.8/1.9	60	1	1		430	1.3	0.27	1,711	1,680	6.3	Direct	3-Alm		C14036
VU20F2	20"	1/2	115/230	4.8/2.4	60	1	1		1,050	2.4	0.22	1,754	2,870	12.8	Direct	3-Alm		C14037
Diamond Brite Portable Drum Fans																		
Single Phase																		
VI2012B1	20"	1/2	115/230~	4.8/2.4	60	1	1					1,725	4,760	16.0	Direct	3-Alm	P	
VI3012WB	30"	1/2	115/230~	6.1/3.09	60	1	1					825	9,100	20.0	Direct	3-Alm	P	
VI3612WB	36"	1/2	115/230~	6.1/3.09	60	1	1					825	11,800	22.0	Direct	3-Glv	P	
VI4234WB2	42"	3/4	115	8.9/6.1	60	1	2	High Low				542	14,440	17.3	Belt	3-Glv	P	
VI481WB	48"	1	115/208-230~	9.0/4.5	60	1	1					361	10,015	22.6				
												525	23,500	25.0	Belt	3-Glv	P	
Galvanized Portable Drum Fans																		
Single Phase																		
VI3612WG	36"	1/2	115/230~	6.1/3.09	60	1	1					825	11,800	22.0	Direct	3-Glv	P	
VI4234WG2	42"	3/4	115	8.9/6.1	60	1	2	High Low				542	14,440	17.3	Belt	3-Glv	P	
VI481WG	48"	1	115/208-230~	9.0/4.5	60	1	1					525	23,500	25.0	Belt	3-Glv	P	
Confined Space Ventilator																		
Single Phase																		
Fan with 20' of Ducting																		
VICS20-GLB	20"	1	115/208-230~	9.0/4.5	60	1	1			2.2	2.2	1,750	3,025	3.0	Direct	8-Ply	P	
Fan Only																		
VICS20	20"	1	115/208-230~	9.0/4.5	60	1	1		510	4.2	0.98	1,770	3,780	3.9	Direct	8-Ply	P	C21012
24" Premium Direct Drive Drum Fan																		
Single Phase																		
PDF24	24"	1/6	120	1.76/1.60	60	1	2	High Low				1,075	7,760		Direct	3-Alm	P	
												772	5,500					

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