



LEGEND

*Variable Speed Direct Drive
Fiberglass Exhaust Fan*

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



**NEW fan series.
More sizes coming soon!**

22

SUPER Magnum 58" Exhaust Fan

*Incredible
50,002 CFM
@ 0.10" SP*



6

MicroCool - Smart High Pressure Fogging Systems



Featuring ROC (Rapid Orientation Collar) hand adjustable, 360° collar rotation for precision fogging – even when under pressure!

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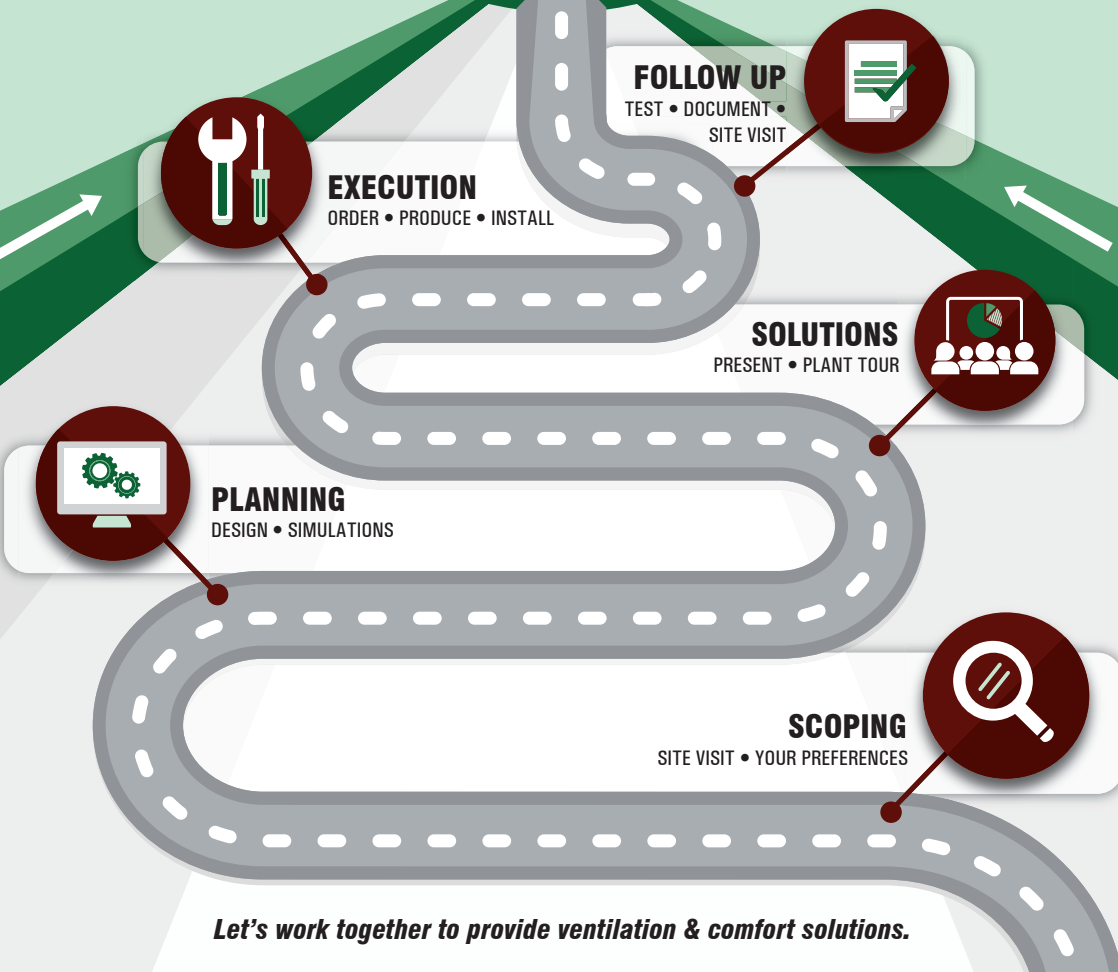
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J&D Manufacturing

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.*



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

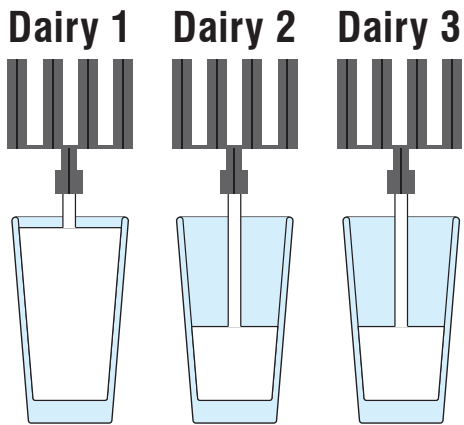
 Rupert, Idaho

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

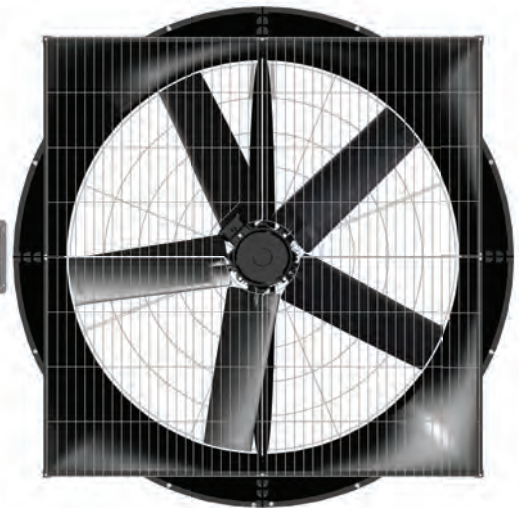
EXHAUST FANS THAT WON'T EXHAUST YOUR BUDGET

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 6



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



**Powerful
4.0kW
Permanent Magnet
Direct Drive Motor**

SUPER MAGNUM

PAGE 26



NEW 4.0kW MOTOR LIGHT TRAP COMBINATION SYSTEM

All the great features and benefits of our standard 55" models but with more power.

PAGE 22

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

**Choose Aluminum or
Poly Shutter Model**



*Shown without shutter for illustration purposes only.
Never run or provide power to fan without shutter installed*

36" LEGEND

Produce 5,000 CFM – 14,000 CFM at 0.05" SP at 100% power for summer cooling. Slow down fan for energy efficient winter ventilation to exhaust stale, gas ridden air out of barn or building all while not creating a cold draft for your animals.

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

What it 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.

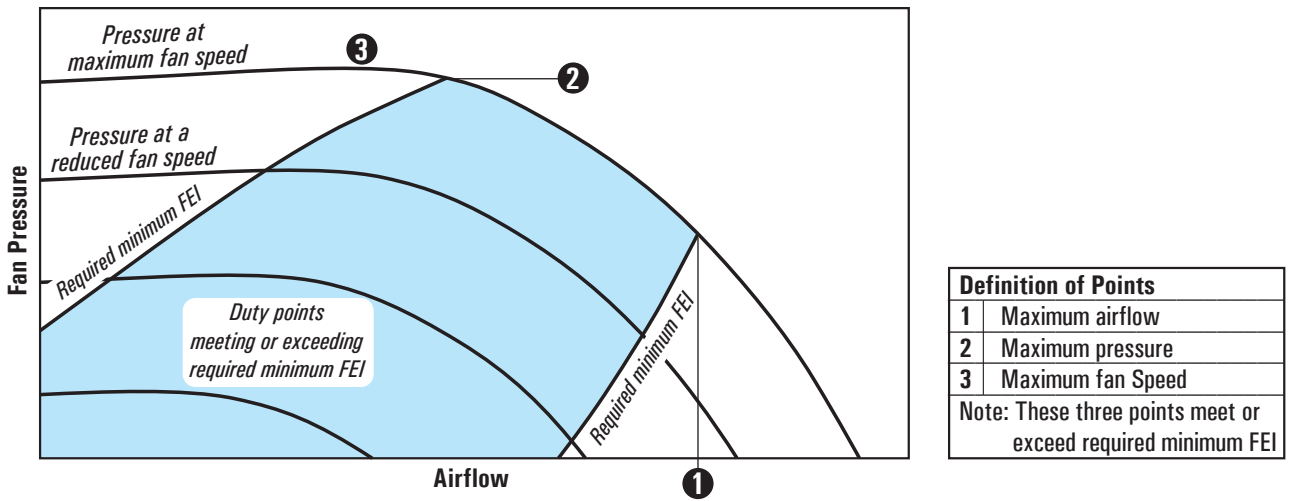
The general definition of FEI is this:

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

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.

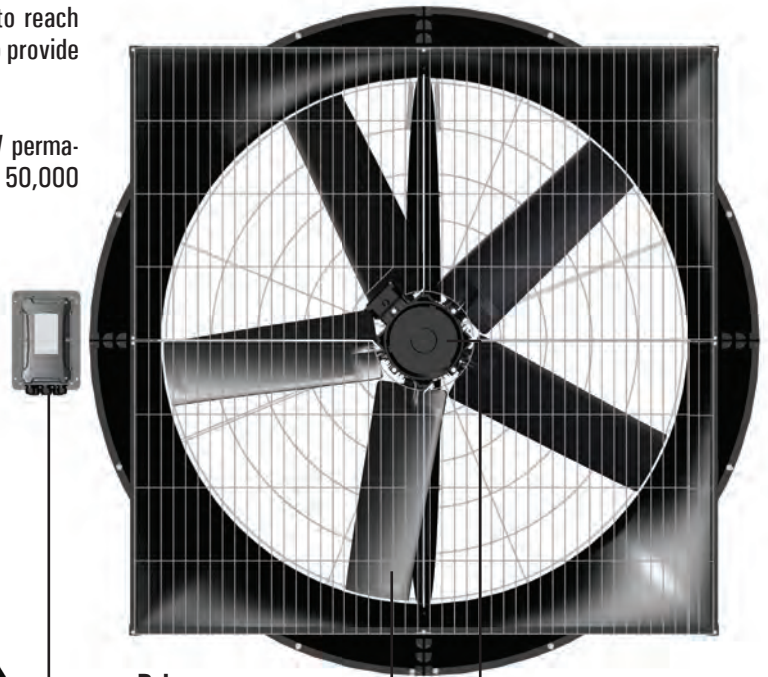
This will give regulators a clearer picture of fan efficiency, help manufacturers design high quality products, and empower users to choose the best fan for their application.

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"

[^] 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



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.

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
- IP65-Rated
- Industrial cast-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.

Magnum 58" Exhaust Fan

EXHAUST FANS

With an Incredible Air Flow Ratio of 0.87

Part #	Sz	Spd	@ 0.10" SP			Drive	Prop	
			CFM	CFM/Watt	FEI			
Single Phase								
VMF58DP3C221A	58"	1/V [^]	100%	42,652	18.4	2.11	PM-D	3-Ply
			90%	36,910	20.8	2.40		
			80%	31,794	24.6	2.86		
			70%	26,314	28.0	3.31		
			60%	18,378	29.2	3.54		
VMF58DP3C221A-HR	58"	1/V [^]	100%	36,400	21.9	2.54	PM-D	3-Ply
			90%	32,200	25.8	3.02		
			80%	27,400	30.2	3.55		
			70%	22,400	33.8	4.04		
			60%	14,500	30.8	3.82		
VMF58DP3C221A-HE	58"	1/V [^]	100%	37,900	20.0	2.32	PM-D	3-Ply
			90%	33,200	23.7	2.76		
			80%	28,700	27.7	3.26		
			70%	23,700	31.4	3.74		
			60%	15,700	30.5	3.75		
Three Phase								
VMF58DP3C223B	58"	1/V [^]	100%	42,238	17.8	2.04	PM-D	3-Ply
			90%	34,250	18.2	2.14		
			80%	28,777	21.4	2.52		
			70%	23,280	25.1	2.99		
			60%	17,465	29.5	3.59		
VMF58DP3C223B-HR	58"	1/V [^]	100%	36,900	21.8	2.52	PM-D	3-Ply
			90%	32,600	25.5	2.98		
			80%	26,000	25.5	3.01		
			70%	20,800	29.1	3.49		
			60%	15,400	32.6	4.01		
VMF58DP3C223B-HE	58"	1/V [^]	100%	38,500	20.9	2.42	PM-D	3-Ply
			90%	34,100	23.5	2.74		
			80%	29,200	27.6	3.24		
			70%	21,900	28.0	3.35		
			60%	16,400	31.1	3.80		
* VMF58DP3C223C	58"	1/V [^]	100%	41,385	18.2	2.08	PM-D	3-Ply
			90%	36,165	21.4	2.46		
			80%	31,035	24.5	2.87		
			70%	25,440	29.1	3.45		
			60%	18,124	29.3	3.56		
VMF58DP3C223C-HR	58"	1/V [^]	100%	36,700	22.2	2.57	PM-D	3-Ply
			90%	32,200	25.3	2.95		
			80%	25,800	25.1	2.97		
			70%	20,700	28.6	3.44		
			60%	15,200	32.1	3.94		
VMF58DP3C223C-HE	58"	1/V [^]	100%	38,400	20.7	2.40	PM-D	3-Ply
			90%	33,800	23.8	2.77		
			80%	29,000	27.5	3.23		
			70%	21,600	27.3	3.27		
			60%	16,200	30.6	3.76		

Rough Opening - 65¼" W x 65¼"H
Side-By-Side Recommended OC Dimension for Fan with Cone - Minimum 75"

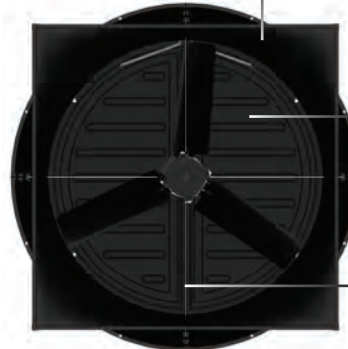
* Experts choice

[^] 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.

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 glass-filled poly composite blades
- Die-cast aluminum 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.

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
- IP65-Rated
- Industrial cast-aluminum housing
- Will not interfere with RFID



Prop

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



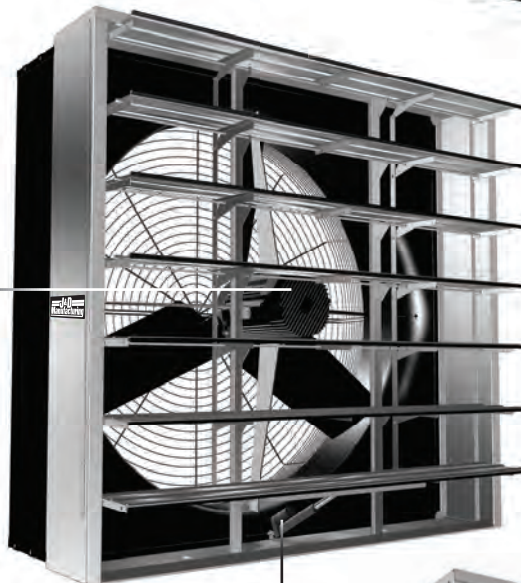
Motor Frame

- 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.

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

EXHAUST FANS

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																		
VFF58PP3N221A	58"	1/V [^]	100%	34,557	15.7	1.65	33,337	14.6	1.70	30,787	12.6	1.75	0.89	PM-D	3-Ply	20210324-01		
			90%	30,585	19.1	2.03	29,294	17.6	2.06	26,292	14.6	2.05					0.86	20210324-02
			80%	27,013	23.8	2.54	25,444	21.1	2.50	21,839	16.6	2.36					0.81	20210324-03
			70%	23,344	30.1	3.24	21,533	25.7	3.07	16,994	18.8	2.72					0.73	20210324-04
Three Phase																		
Standard Guard																		
VFF58PP3N223B	58"	1/V [^]	100%	34,016	15.7	1.66	32,798	14.6	1.70	30,183	12.5	1.74	0.89	PM-D	3-Ply	20210323-01		
			90%	30,198	19.4	2.06	28,844	17.5	2.05	25,829	14.5	2.03					0.86	20210323-02
			80%	26,775	23.9	2.56	25,475	21.5	2.55	21,814	17.0	2.41					0.81	20210323-03
			70%	23,270	31.0	3.34	21,371	26.6	3.19	—	—	N/A					—	20210323-04
* VFF58PP3N223C	58"	1/V [^]	100%	34,119	15.2	1.60	32,783	14.1	1.64	30,371	12.2	1.70	0.89	PM-D	3-Ply	20210322-05		
			90%	30,828	18.0	1.91	29,433	16.3	1.91	26,785	13.9	1.94					0.87	20210319-02
			80%	26,691	22.6	2.42	25,057	20.5	2.43	21,779	16.0	2.28					0.82	20210319-03
			70%	23,238	29.4	3.17	21,423	25.1	3.01	17,349	18.8	2.71					0.75	20210322-01
Louvers With Mesh Guard																		
VFF58PP3L4223B	58"	1/V [^]	100%	33,708	15.2	1.60	32,324	14.1	1.64	29,385	12.1	1.69	0.87	PM-D	3-Ply	20230818-01		
			90%	30,069	18.4	1.94	28,427	16.6	1.96	25,140	13.8	1.95					0.84	20230818-02
			80%	26,396	22.4	2.39	24,586	19.9	2.36	20,770	15.8	2.25					0.79	20230818-03
			70%	22,677	27.8	3.00	20,542	23.8	2.86	14,993	16.6	2.42					0.66	20230818-04
VFF58PP3L4223C	58"	1/V [^]	100%	33,739	15.2	1.60	32,398	14.1	1.63	29,225	11.9	1.67	0.87	PM-D	3-Ply	20230816-02		
			90%	30,296	18.4	1.94	28,633	16.6	1.95	25,066	13.6	1.92					0.83	20230817-01
			80%	26,626	22.3	2.38	24,731	19.7	2.34	20,258	15.1	2.17					0.76	20230817-02
			70%	22,750	27.4	2.96	20,557	23.4	2.82	14,968	16.3	2.38					0.66	20230817-03
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																	

* 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: 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.

Mega Fan Series

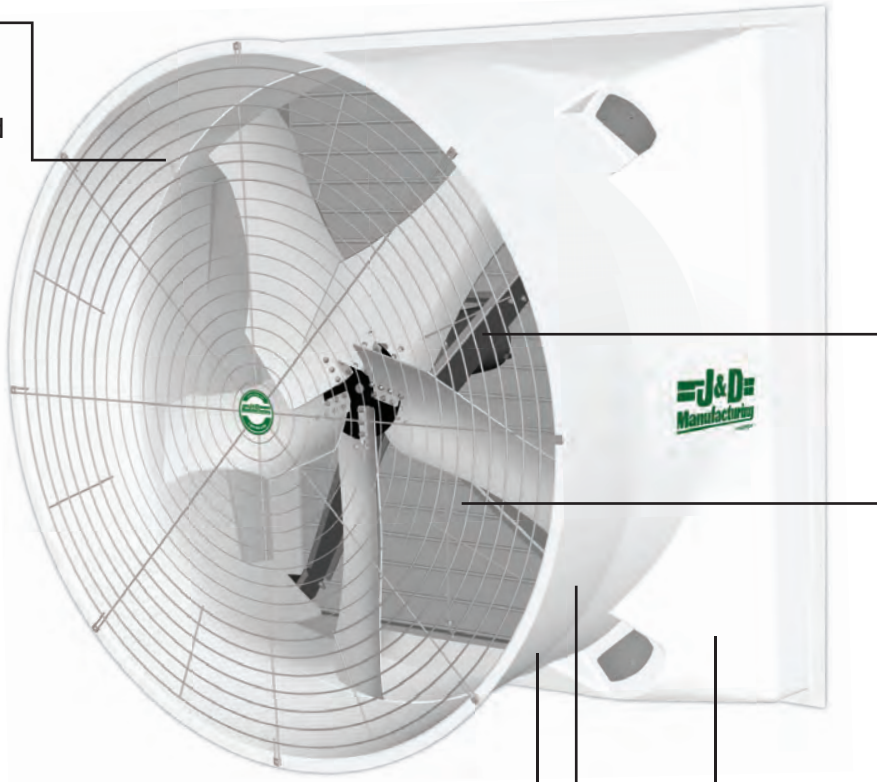
72" Fiberglass Exhaust Fans

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.

Mega Direct Drive

Direct Drive 72" Fiberglass Exhaust Fan

EXHAUST FANS



**Incredible 55,505
CFM @ 0.10"SP**

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 its 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.



Prop

- 5 glass-filled poly composite blades
- Die-cast aluminum hub
- **3 Year Warranty**

Motor

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

Driver

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

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								
VMDA72P5C43C	72"	1/V^	100%	55,505	15.3	1.75	PM-D	5-Ply
			90%	49,124	17.9	2.05		
			80%	42,263	20.8	2.40		
			70%	34,659	24.0	2.79		
			60%	26,238	26.3	3.11		
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.

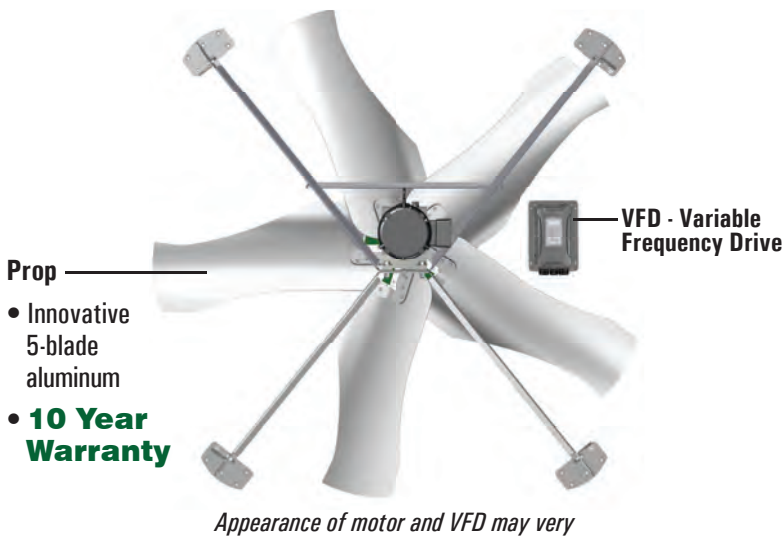
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Mega Torque Fans

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 Wired for 480V							
With 1-Piece Cone (for 3-piece cone, add H after C in part #)							
Aluminum Shutter							
VMTA72A5C33E-VFD480	72"	1/V^	41,437	20.4	2.35	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	42,455	20.7	2.38	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

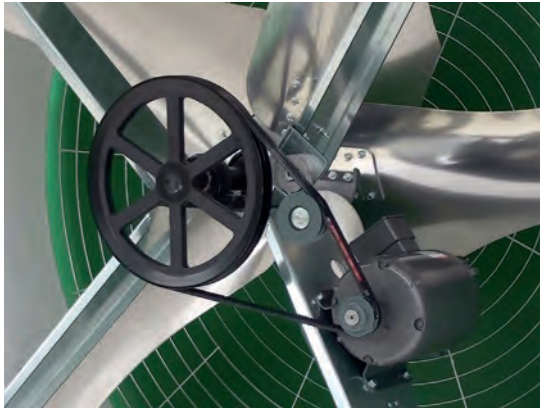
Mega Torque

- 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.

Mega Storm Fans

Belt Drive 72" Fiberglass Exhaust Fan



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 exceedd 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

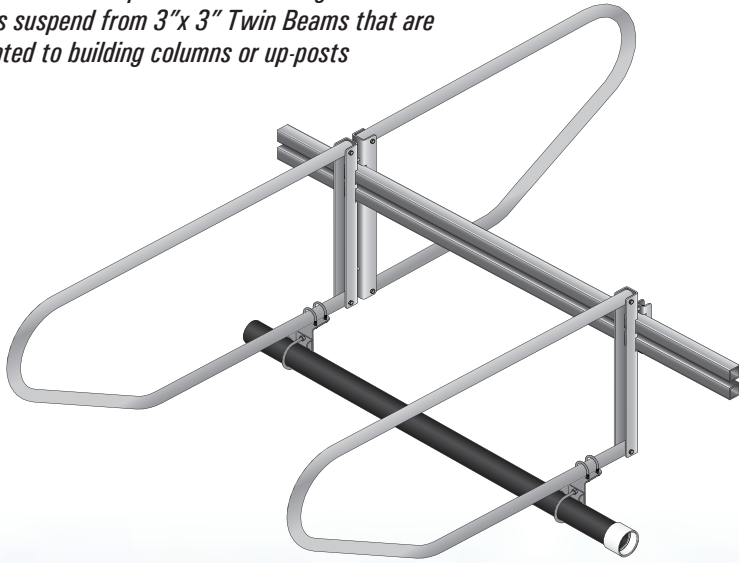
Bold red text is data based on testing performed by an accredited lab using ANSI/AMCA 210-07 standard.

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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"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

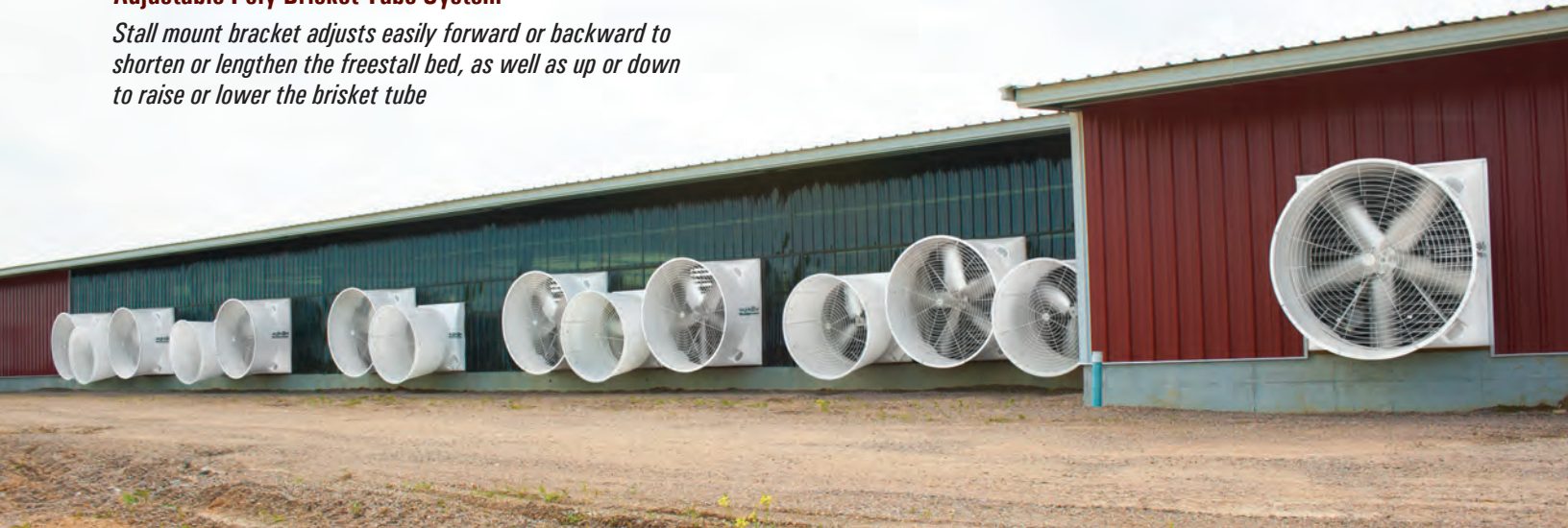
Mega Storm - 72" Fiberglass Exhaust Fan

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



Direct Drive Storm

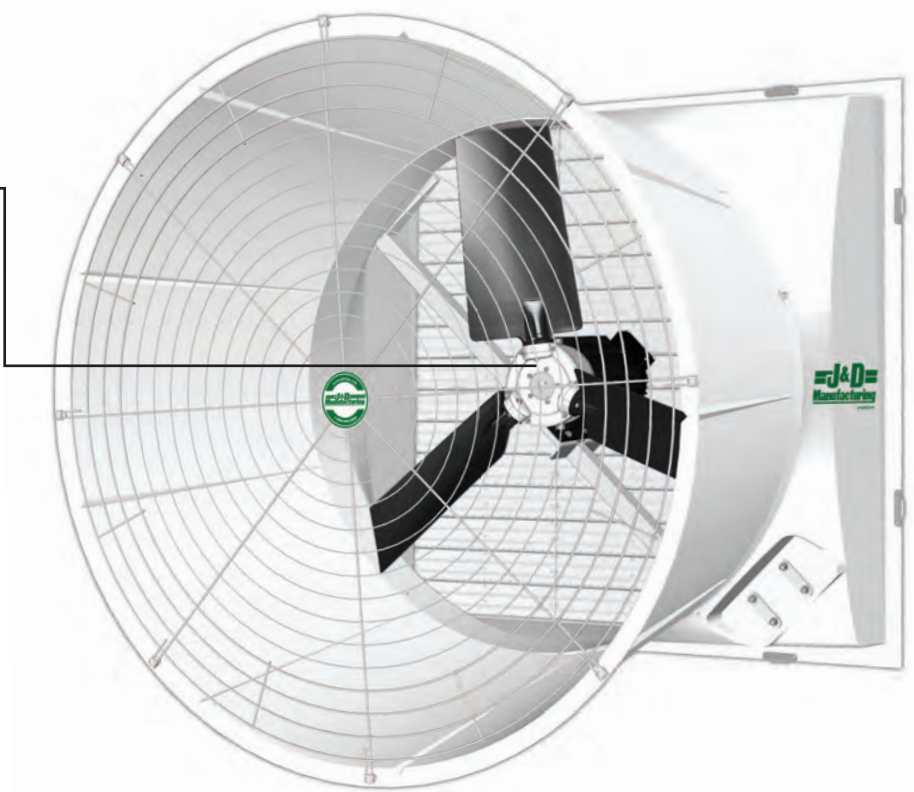
EXHAUST FANS

Turbo Prop

- 3 glass-filled poly composite blades
- Die-cast aluminum hub
- **3 Year Warranty**

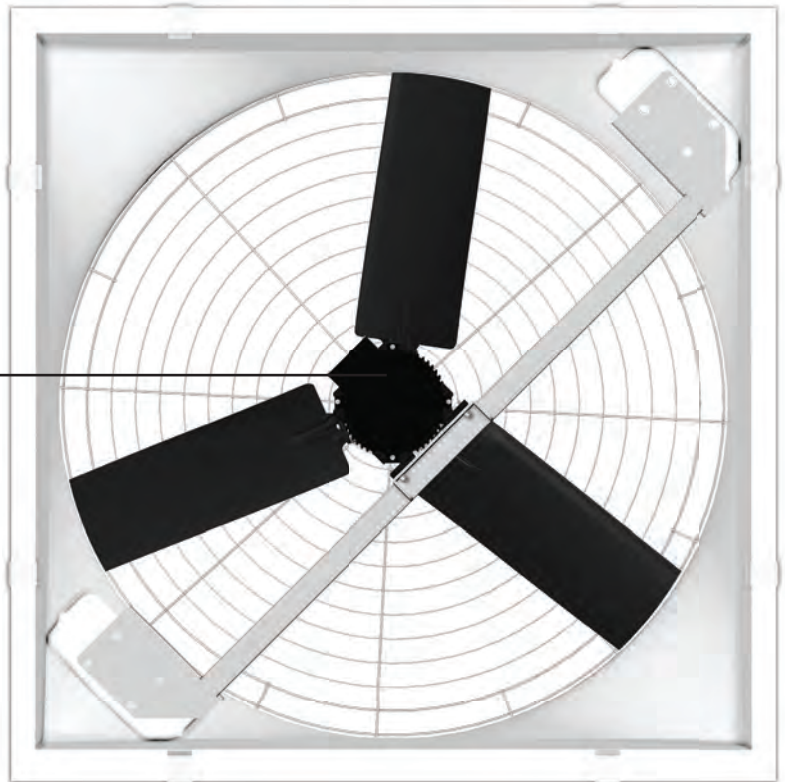


**Variable Speed,
No VFD
Needed**



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
- IP65-Rated
- Industrial cast-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.

Direct Drive Storm

EXHAUST FANS

Part #	Sz	Spd	@ 0.10" SP			Drive	Prop	
			CFM	Watt	FEI			
Single Phase								
Aluminum Shutter								
VSA55P3CPM221A-SL	55"	1/V [^]	100%	35,000	13.8	1.61	PM-D	3-Ply
			90%	30,900	16.8	1.96		
			80%	26,800	20.4	2.41		
			70%	22,400	24.5	2.92		
			60%	17,500	28.1	3.42		
Poly Shutter								
VSP55P3CPM221A-SL	55"	1/V [^]	100%	34,000	12.9	1.50	PM-D	3-Ply
			90%	29,600	15.5	1.83		
			80%	25,600	18.7	2.21		
			70%	21,100	22.1	2.65		
			60%	15,400	24.6	3.02		
Three Phase								
Aluminum Shutter								
VSA55P3CPM223B-SL	55"	1/V [^]	100%	34,700	14.0	1.63	PM-D	3-Ply
			90%	30,900	16.9	1.98		
			80%	26,500	20.3	2.39		
			70%	22,400	24.6	2.95		
			60%	17,500	28.5	3.47		
* VSA55P3CPM223C-SL	55"	1/V [^]	100%	33,016	15.2	1.50	PM-D	3-Ply
* VSA55P3CPM223C-SL	55"	1/V [^]	90%	29,233	18.1	2.13	PM-D	3-Ply
			80%	25,362	21.4	2.54		
			70%	21,235	26.0	3.11		
			60%	16,674	30.1	3.68		
			Poly Shutter					
VSP55P3CPM223B-SL	55"	1/V [^]	100%	33,800	12.9	1.50	PM-D	3-Ply
			90%	29,500	15.4	1.81		
			80%	25,400	18.5	2.18		
			70%	20,900	22.0	2.65		
			60%	15,800	25.0	3.07		
VSP55P3CPM223C-SL	55"	1/V [^]	100%	28,352	16.1	1.90	PM-D	3-Ply
			90%	24,865	19.2	2.27		
			80%	21,028	22.2	2.66		
			70%	17,302	24.5	2.98		
			60%	12,606	25.8	3.24		



* 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.

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 29,233 CFM @ 0.10" SP
- Slow down a Direct Drive Storm by 30% and **save 62% on electricity** and still achieve an incredible 21,235 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.

Direct Drive Storm Conversion Kit

Make the Change

Simple and easy
Upgrade what you have

Everything to Gain

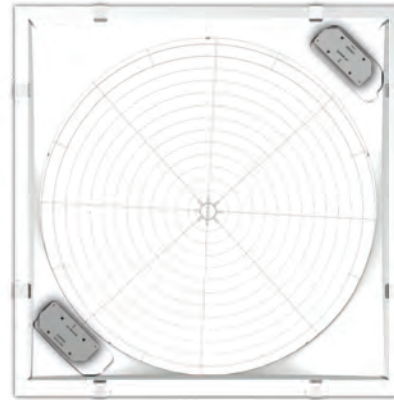
Improved performance
Precise control

Nothing to Maintain

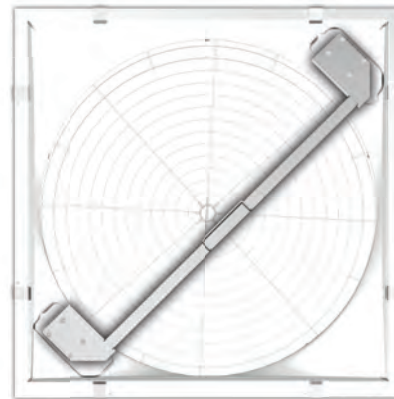
No belts
No pulleys
No greasing



3 Year Warranty

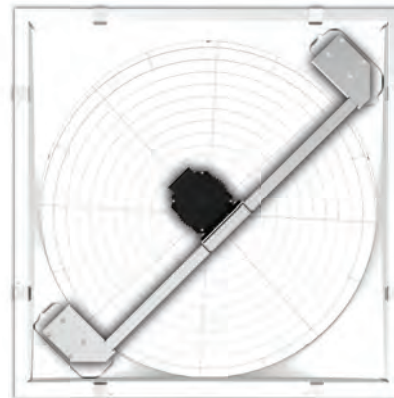


Remove belt drive H-frame, motor, prop, and pulleys

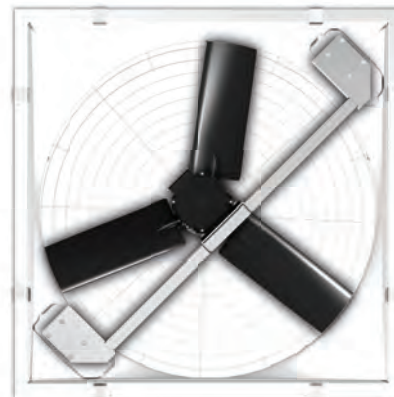


Use drilling template to create new mounting holes

Install new frame



Attach JD-Drive motor to frame



Secure prop to JD-Drive motor shaft

Part #	Spd	Drive	Prop
Single Phase			
VRJ55P3PM221A	1/V [^]	PM-D	3-Ply
Three Phase wired for 190-240V			
VRJ55P3PM223B	1/V [^]	PM-D	3-Ply
Three Phase wired for 380-460V			
VRJ55P3PM223C	1/V [^]	PM-D	3-Ply
Template Kit			
HK225	Drill Templates, BD to DD Retrofit		

[^] 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.

EXHAUST FANS

Storm Torque

55" Fiberglass Exhaust Fan with Torque Drive

Save Time & Money

No Belts to Change

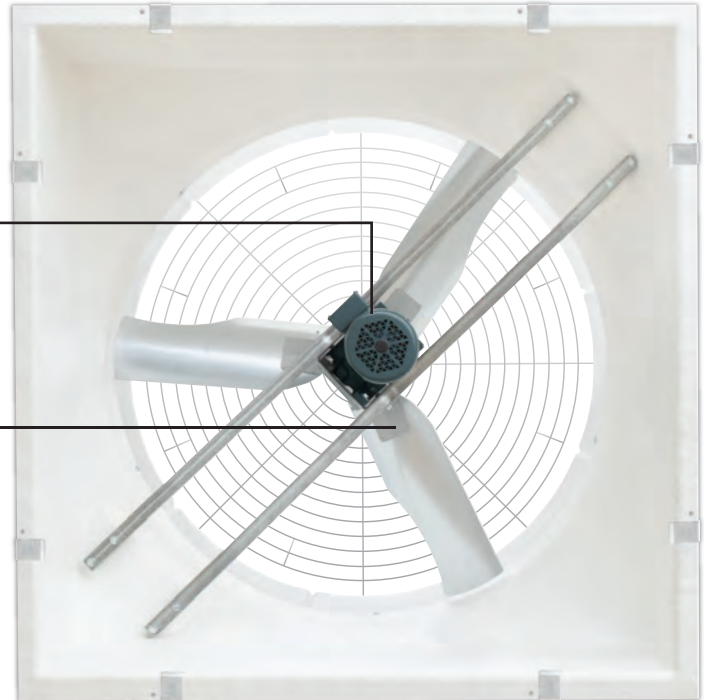
No Pulleys to Maintain

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)

Part #	Sz	Spd	@ 0.10" SP			Drive	Prop
			CFM	Watt	FEI		
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.

Storm

Belt Drive 55" Fiberglass Exhaust Fan

EXHAUST FANS



Motor

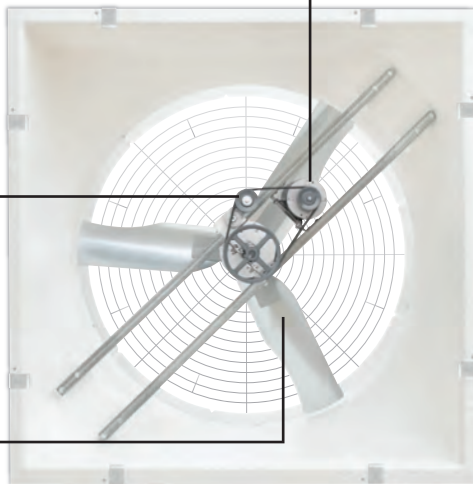
- High-efficiency
- Totally enclosed
- 1 HP, 1 1/2 HP, or 2 HP
- Covered by a **2 Year Warranty**

Belt Tensioner

- Automotive style
- Toolless belt changing

Prop Options

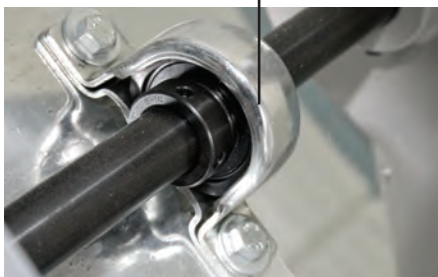
- High-performance cast-aluminum prop with **Lifetime Warranty**
- Galvanized prop with **1 Year Warranty**



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.

⚠ 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.

Legend

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**



**NEW fan series.
More sizes coming soon!**



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

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		

Features

- Variable speed ready - NO VFD NEEDED!
- IP66-rated, direct drive motor
- Fiberglass housing does not rust or rot
- Stainless-steel motor frame, prop, & hardware - Corrosion-resistant
- Aluminum or poly shutter options
- Maintenance-free!
- No belts, pulleys, or tensioners
- Models with or without cone
- More sizes coming soon!
- Totally enclosed, maintenance-free, high-efficiency motors have completely sealed ball bearings, are CSA recognized, and are covered by a **2 Year Warranty**

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

Available in black.



[^] 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.

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

⚠ 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.

Tornado Fiberglass Exhaust Fan

J&D Manufacturing's Tornado exhaust fan is made to withstand even the harshest agricultural environments. With its 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**



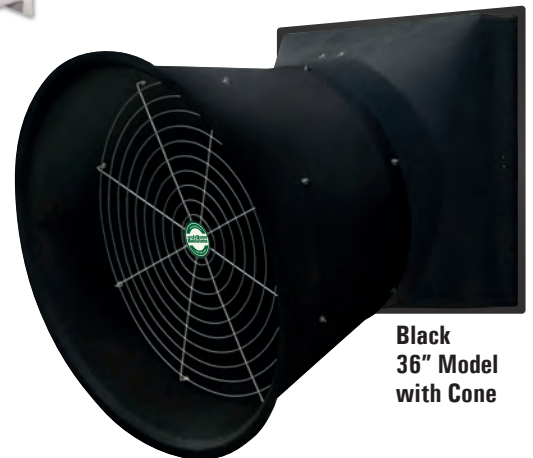
50" Model with Poly Cone



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.

Tornado Fiberglass Exhaust Fan

EXHAUST FANS



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	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#



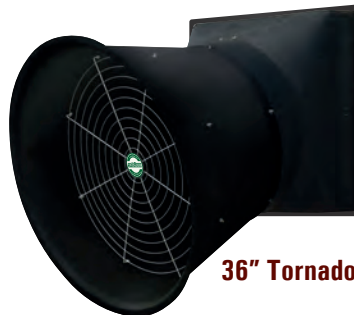
Fan Size	Rough Opening	Minimum Distance Between Openings
12"	17½"W x 18½"H	Fans with a cone require a minimum spacing between rough openings to accommodate width of cones
16"	21½"W x 23"H	
20"	25¾"W x 25¾"H	
24"	31½"W x 31½"H	3¼"
36"	44"W x 44"H	9"
50"	56"W x 56"H	10"

⚠ 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.



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

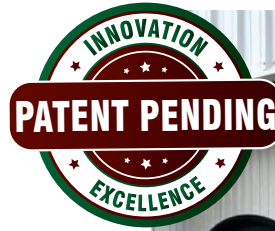


55" Storm

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.



EXHAUST FANS

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

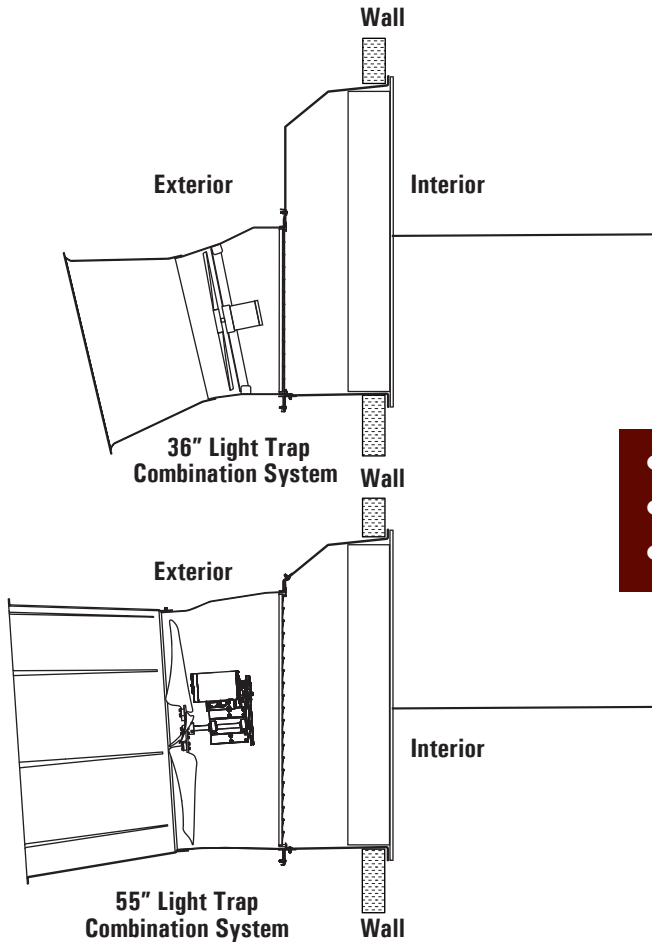


Hinged light trap doors make maintenance easy

⚠ 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.

Light Trap Combination System

EXHAUST FANS



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

⚠ 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.

Light Trap Combination System

EXHAUST FANS

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

Part #	Sz	Spd	@ 0.10" SP			Drive	Prop
			CFM	Watt	FEI		
36" Exhaust Fans							
Three Phase							
Poly Shutter							
VFTP36NC3	36"	1	12,369	11.3	1.42	Direct	2-Nyl
Aluminum Shutter							
VFTA36NC3	36"	1	13,340	12.5	1.56	Direct	2-Nyl
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

⚠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.

No one type or style of ventilation is perfect for every situation.

Ventilation Types

Negative Pressure

Negative pressure ventilation systems create a slight vacuum inside the building. The placement of fans on an outside wall will blow air out of the building, creating negative pressure inside the building. The negative pressure draws outside air into the building through any opening, which replaces, refreshes, and circulates the air.

Positive Pressure

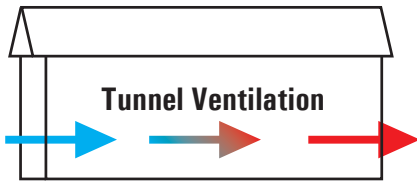
Positive pressure ventilation forces air into a building, creating a positively pressurized environment. That positive pressure enables control of the air quality entering, as only air pushed through the fans can enter. Planned outlets and unplanned openings, like gaps around doors, holes/tears in curtains, etc. are now places the positive pressure air will exit the building, but not let outside air in. This is because the pressure outside the building is lower than the pressure inside the building. By controlling the air entering your building, you can control your air quality and reduce contaminants. This is a huge advantage in milking parlors, and for poultry, swine, and greenhouse facilities that required filtered air.

Ventilation Systems

Not sure which ventilation system is right for different applications? Below, we discuss the two most common types of ventilation systems; tunnel ventilation, and cross ventilation.

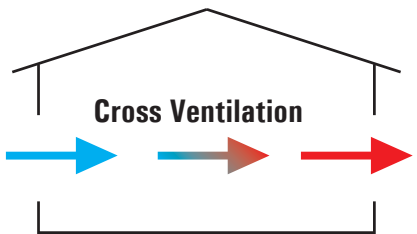
Tunnel Ventilation

To address the issues of curtain sided buildings, many producers turned to mechanical ventilation. In a tunnel-ventilated building, fans are located on the narrow end of the building and openings are on the other narrow end creating a ventilation “tunnel” affect. Air intake to the building can be cooled easily depending on your choice of exhaust or positive pressure fans and placement of evaporative cooling pads. This is also the preferred system for positive pressure ventilation with a filter bank for your building’s incoming air providing additional disease protection. The advantage of tunnel ventilation is the ability to control the quantity of air moving through the structure, and it requires less fans to achieve a desired velocity than if you put them on the side of the building.



Cross Ventilation

Cross Ventilation is the opposite of tunnel ventilation. Fans are placed on the long “side” of the building and the air is drawn from the other side, usually through a curtain, inlet, or the eave of the building. The advantage of cross ventilation is that we are not limited to the amount of “end wall” space to mount our exhaust fans. Cross ventilated buildings generate consistent airflow across the building, where as tunnel ventilated buildings can lose air velocity depending on how long the building is.



Different projects have different environmental conditions, different desired outcomes, and different input constraints, so no one type or style is perfect for every situation. Knowing there are different ways to approach cooling, filtration, and air movement needs is the first step to choosing the correct one for your customer.

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

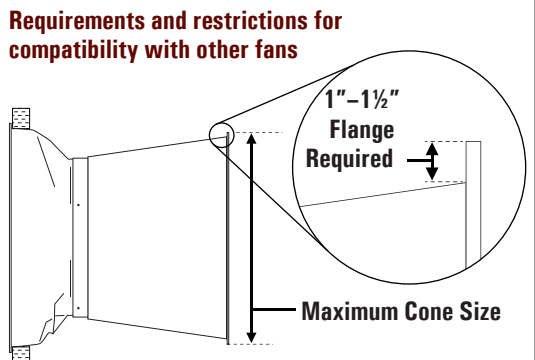
- Face is tough 12oz reinforced woven polyethylene
- Uniquely engineered coating with UV inhibitor for maximum durability, strength, and long life
- Translucent white

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



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

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

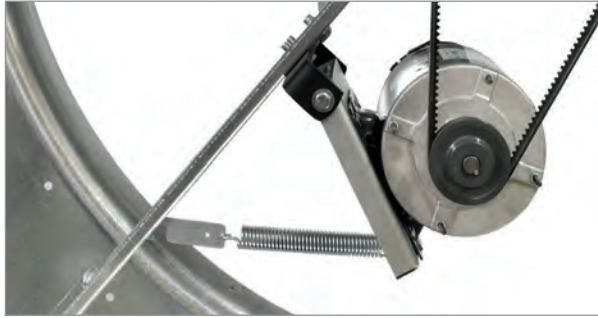


Model with cone

⚠️ 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.

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
VFS50CS6	50"	1	22,100	18.2	2.69	Belt	6-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

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

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
Optional Accessories	
VRGM5555PVC12	Wire Mesh, 1/2" 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 38 1/2"H	40" +
36"	41"W x 42 3/4"H	46" +
42"	49 1/4"W x 51"H	53" +
50"	55"W x 57"H	60" +

⚠ 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.

Wall Master Exhaust Fan

EXHAUST FANS

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

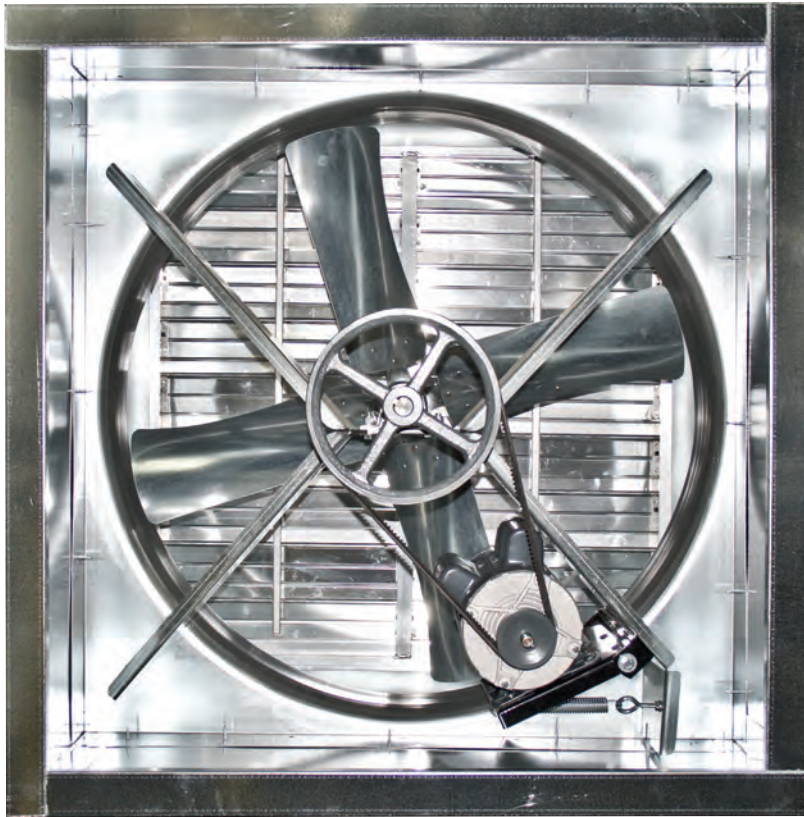
- Available in 36", 50", and 55" models
- Heavy-duty 18-gauge galvanized housing
- Rugged X-frame for added stability on belt drive models
- Aluminum shutters with tie bar to prevent flapping and locking open
- 1" x 2" removable wire mesh guards are hot dip galvanized after welding
- Poly guard clips 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**



⚠ 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.

Wall Master Exhaust Fan

EXHAUST FANS



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.



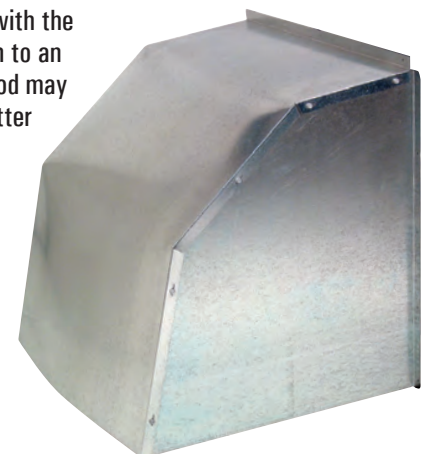
Belt drive models include a heavy-duty spring belt tensioner to reduce bounce at startup and provide uniform loading to increase the life of the belt and maintain high efficiency.

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

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

* 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

⚠ 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.

ES Shutter Fan

EXHAUST FANS

Housing

- Heavy-duty
- Galvanized
- 18-gauge

Guard

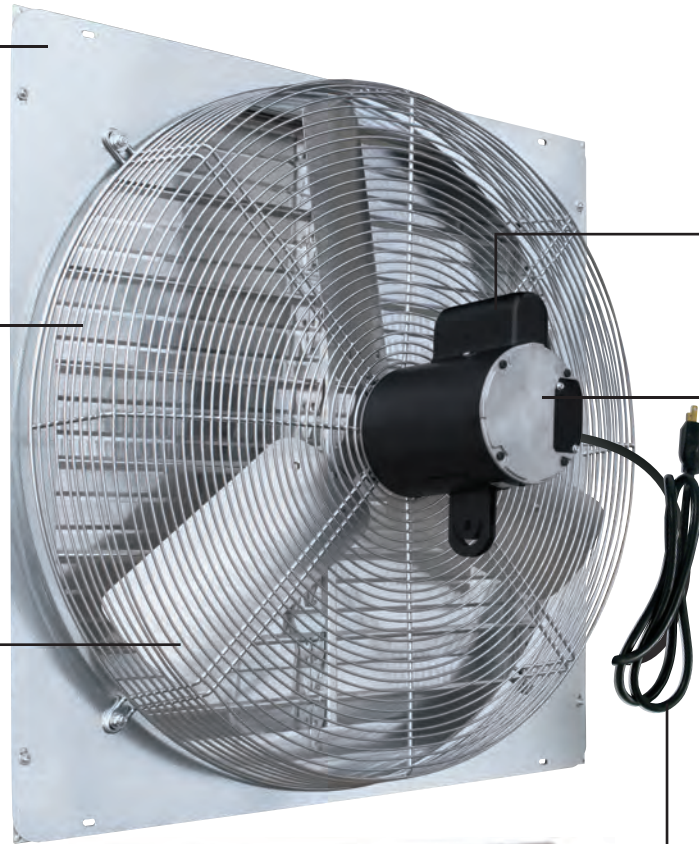
- Meets OSHA 1910.212(a)(5) requirements to mount at any height on inlet side of fan (*shutter side should be 7' above ground*)
- Coated steel guard for easy cleaning
- Strong

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

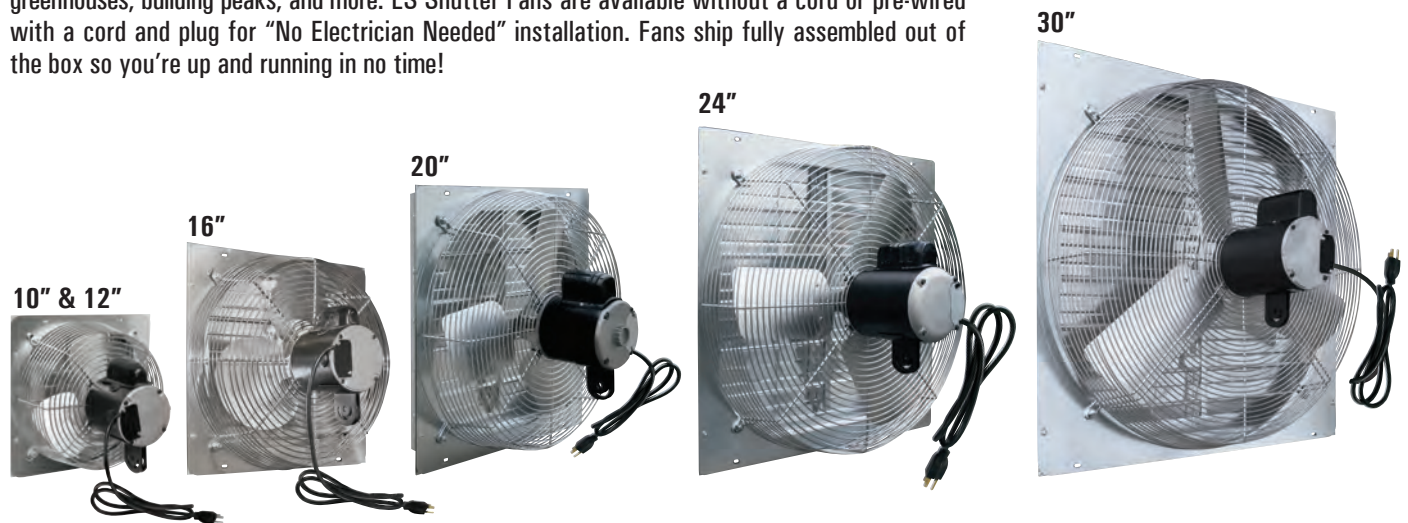


No Electrician Needed
for Corded Models

⚠ 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.

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!



EXHAUST FANS

Features

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

Part#	Sz	Spd	@0.10" SP		Prop	Rough Opening
			CFM	Watt		
With Cord						
Single Phase						
VES10C	10"	3(H) (M) (L)	464	5.5	3-Alm	12½" x 12½"
			373	7.2		
			293	6.4		
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

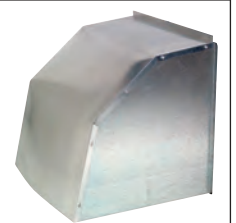
^ Variable speed fans require separate variable speed control to adjust fan speed

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.

Indoor/Outdoor ES Shutter Fan W/Cord

EXHAUST FANS

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

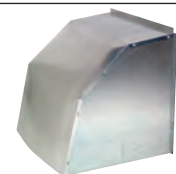
- Available in 12", 16", 20", and 24"
- Smooth and quiet operation
- Direct drive
- Outdoor rated UL507 certified motor
- Ships fully assembled and ready for installation
- Attached 9' pre-wired 115 Volt cord with 3-prong plug for "No Electrician Needed" installation. Just plug it in!
- Balanced 3-blade 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	@0.0" SP		Prop	Rough Opening	Cord
			CFM	Watt			
Single Phase							
* VPES12	12"	3(H) (M) (L)	1,100 850 550	12.0 11.0 10.0	3-Alm	12½" x 12½"	9'
VPES16	16"	3(H) (M) (L)	2,950 2,050 1,200	15.0 14.0 13.0	3-Alm	16½" x 16½"	9'
VPES20	20"	3(H) (M) (L)	4,220 3,250 2,130	18.0 16.0 14.0	3-Alm	20½" x 20½"	9'
VPES24	24"	2(H) (L)	5,850 3,475	20.0 16.0	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.

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"

* Experts choice

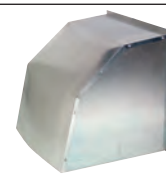
* Experts choice

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

Optional Weather Hood

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



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.

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-assemble², 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.

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

Gold Star Motor

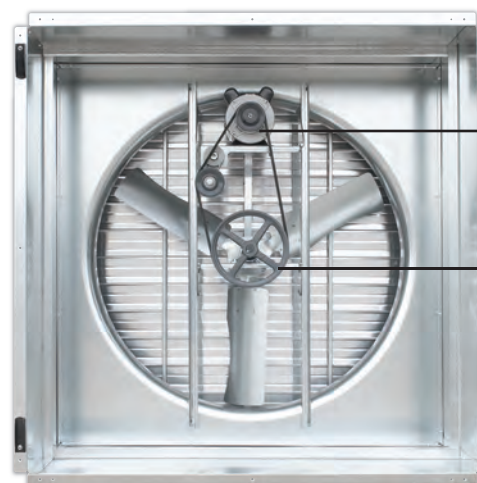
- IP66-Rated
 - Dust tight
 - Can be washed down from any angle
- Totally enclosed
- Maintenance-free, completely sealed ball bearings
- High efficiency
- CSA recognized
- Covered by a **3 Year Warranty**



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



Part#	Sz	Spd	@0.10" SP			Drive	Prop
			CFM	Watt	FEI		
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

² 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

⚠ 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.

Ridge Fan

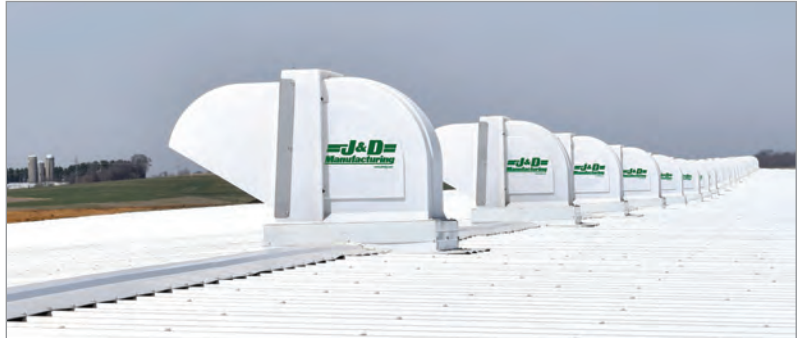
EXHAUST FANS

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



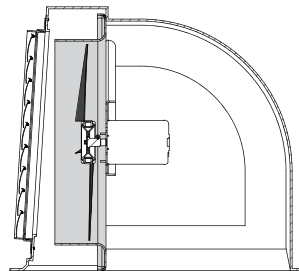
NOTE: Bird netting is recommended but sold separately

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							

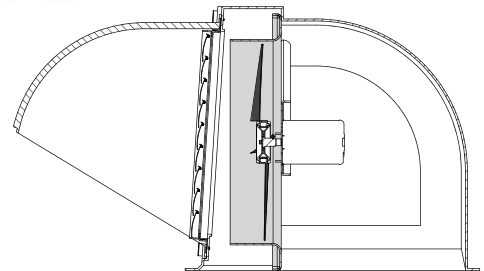
* Experts choice

⚠ 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.

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, weather hood, and discharge cone 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**



12" & 16" with Poly Weather Hood



20" & 24" with Poly Weather Hood



24" with Poly Cone

Part#	Sz	Spd	@.05" SP			Drive	Prop
			CFM	Watt	FEI		
Single Phase							
With Poly Weather Hood							
Aluminum Shutter							
PFPS12C	12"	1	1,165	6.2	N/A	Direct	3-Ply
PFPS16D	16"	1	2,540	11.1	N/A	Direct	3-Ply
PFPS20E	20"	1	3,320	14.1	N/A	Direct	3-Ply
PFPS20G	20"	1	4,095	12.3	N/A	Direct	3-Ply
PFPS20GG	20"	1	4,765	14.5	N/A	Direct	3-Ply
PFPS24H	24"	1	5,210	14.9	N/A	Direct	4-Ply
With Poly Cone							
Aluminum Shutter							
PFPS24C	24"	1	5,980	15.7	N/A	Direct	4-Ply

Fan Size	Rough Opening
12"	18¾"W x 18¾"H
16"	21¾"W x 21¾"H
20"	25¾"W x 25¾"H
24"	29"W x 29"H

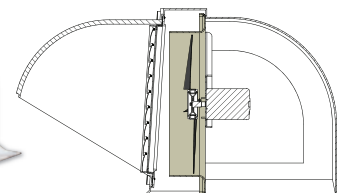
* Experts choice

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

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

⚠ 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.

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. De-stratification is also a benefit to adding recirculation fans to a facility. Enjoy dryer 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.

PAGE 44

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

PAGE 47



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

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

PAGE 59



**3 Phase
Now
Available**

JD360 DESTRATIFIER

Creates low-air-speed vertical air movement providing a comfortable uniform environment. Reduces temperature stratification and dead zones.

AirBlaster - Precision Velocity



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

**Great solution
for retrofitting.**

**3 Year
Warranty
on ENTIRE
fan**

RECIRCULATION FANS



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AirBlaster - Precision Velocity

RECIRCULATION FANS



**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
- IP65-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 glass-filled poly composite blades
- Die-cast aluminum hub

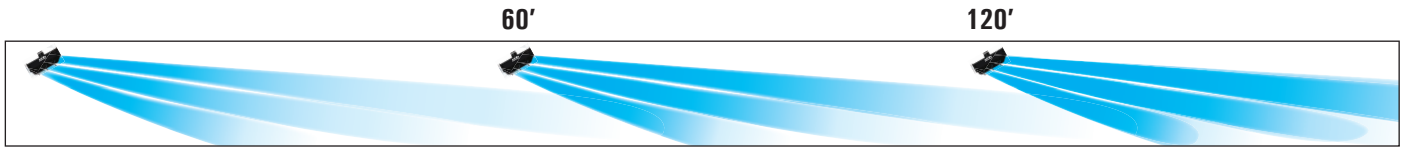


Shipping

- 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%.

RECIRCULATION FANS

3 Louver Uni-Directional

4 Louver Bi-Directional

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
Single Phase							
VAB58L3P3221A-CK	58"	1	1/Var [^]	100% 41,521	15.3	PM-D	3-Ply
				90% 37,129	19.3		
				80% 32,971	24.4		
				70% 28,763	32.2		
				60% 24,795	44.1		
				50% 20,332	59.9		
				40% 16,421	87.0		
Three Phase							
VAB58L3P3223B-CK	58"	3	1/Var [^]	100% 41,265	15.6	PM-D	3-Ply
				90% 36,703	19.5		
				80% 33,043	24.4		
				70% 28,941	32.2		
				60% 24,824	43.8		
				50% 20,704	61.4		
				40% 17,420	93.7		
* VAB58L3P3223C-CK	58"	3	1/Var [^]	100% 41,480	15.2	PM-D	3-Ply
				90% 37,532	19.1		
				80% 32,855	23.9		
				70% 28,873	31.4		
				60% 24,714	42.2		
				50% 20,119	57.6		
				40% 16,688	80.6		

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
Single Phase							
VAB58L4P3221A-CK	58"	1	1/Var [^]	100% 40,423	14.2	PM-D	3-Ply
				90% 36,000	18.2		
				80% 31,888	23.2		
				70% 28,053	30.3		
				60% 23,905	41.2		
				50% 19,821	57.4		
				40% 15,722	81.1		
Three Phase							
VAB58L4P3223B-CK	58"	3	1/Var [^]	100% 40,156	14.4	PM-D	3-Ply
				90% 35,956	17.9		
				80% 31,685	22.7		
				70% 27,775	30.0		
				60% 23,807	40.7		
				50% 19,876	58.2		
				40% 15,895	81.2		
VAB58L4P3223C-CK	58"	3	1/Var [^]	100% 41,004	15.4	PM-D	3-Ply
				90% 37,142	18.6		
				80% 32,921	24.0		
				70% 28,776	31.0		
				60% 24,537	42.0		
				50% 20,233	58.6		
				40% 16,719	84.7		

* Experts choice

[^] 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 230-12

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.

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 glass-filled poly composite blades
 - Cast-aluminum hub

- Motor**
- Totally enclosed - IP65-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



3 Year Warranty on ENTIRE fan

- Heavy-Duty X-Frame**
- 10-gauge, G90 galvanized
 - Superior strength and rigidity to minimize vibration

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

⚠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.

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 UL and CUL recognized

Installation Options

Part#	Description
Swivel Offset Mounting Bracket	
Wood Post Mount	
VRSBRPR6PX-PM	4"-6" Wood Post, PM Panel Fan, Glv
Round Column Mount	
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
Square Column Mount	
VRSBRSQ4X-PM	4" Sq Column, PM Panel Fan, Painted
VRSBRSQ6X-PM	6" Sq Column, PM Panel Fan, Painted
In-line Column Mounting Brackets	
Round Column Mount	
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
Square Column Mount	
VRSBRP4SQ	4"-4½" Sq. Column, Black Powder Coat & Glv
VRSBRP6SQ	6"-6½" Sq. Column, Black Powder Coat & Glv
Chain Suspending Kit	
HK211	(3) 72" of Chain, w/Fan to Chain Hardware

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
Single Phase							
VPX50P3PM221A	50"	1	1/Var [^]	100%	30,800	13.5	PM-D 3-Ply
				90%	25,142	15.6	
				80%	22,569	19.4	
				70%	19,759	25.0	
				60%	17,033	34.0	
				50%	14,172	46.9	
VPX55P3PM221A	55"	1	1/Var [^]	100%	37,400	14.4	PM-D 3-Ply
				90%	29,475	17.5	
				80%	26,269	22.2	
				70%	23,483	28.3	
				60%	19,932	38.4	
				50%	16,814	52.9	
VPX60P3PM221A	60"	1	1/Var [^]	100%	40,800	17.6	PM-D 3-Ply
				90%	32,327	20.0	
				80%	29,042	25.0	
				70%	25,310	33.0	
				60%	21,650	45.2	
				50%	17,886	61.4	

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
Three Phase							
VPX50P3PM223B	50"	3	1/Var [^]	100%	29,300	14.0	PM-D 3-Ply
				90%	24,831	15.2	
				80%	21,775	19.6	
				70%	19,229	26.0	
				60%	16,564	34.8	
				50%	13,929	48.5	
VPX50P3PM223C	50"	3	1/Var [^]	100%	29,600	14.3	PM-D 3-Ply
				90%	24,818	15.3	
				80%	22,101	19.4	
				70%	19,369	25.2	
				60%	16,573	33.5	
				50%	14,067	46.3	
VPX55P3PM223B	55"	3	1/Var [^]	100%	37,500	12.6	PM-D 3-Ply
				90%	29,391	17.3	
				80%	26,091	21.9	
				70%	23,047	28.6	
				60%	19,947	38.4	
				50%	16,570	53.2	
VPX55P3PM223C	55"	3	1/Var [^]	100%	36,800	13.3	PM-D 3-Ply
				90%	28,971	18.1	
				80%	25,806	22.9	
				70%	22,723	29.4	
				60%	19,628	39.9	
				50%	16,488	55.5	
VPX60P3PM223B	60"	3	1/Var [^]	100%	40,300	17.8	PM-D 3-Ply
				90%	32,667	19.9	
				80%	29,036	25.3	
				70%	25,532	32.9	
				60%	21,970	44.5	
				50%	18,725	63.2	
* VPX60P3PM223C	60"	3	1/Var [^]	100%	40,100	17.4	PM-D 3-Ply
				90%	32,455	19.5	
				80%	28,620	24.8	
				70%	25,320	32.0	
				60%	21,637	43.0	
				50%	18,146	59.2	

* 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

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

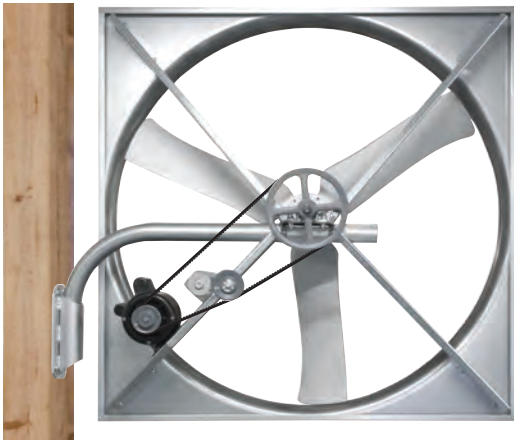
⚠ WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov/product.

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



50" & 55"
Belt Drive Panel Fans
available with
Cast-aluminum
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.

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
Swivel Offset Mounting Bracket	
Wood Post Mount	
VRSBRPR6PX	4"-6" Wood Post, VPX Panel Fan, Glv
Round Column Mount	
VRSBRPR3X	3" Rnd Column, VPX Panel Fan, Glv
VRSBRPR35X	3½" Rnd Column, VPX Panel Fan, Glv
VRSBRPR4X	4" Rnd Column, VPX Panel Fan, Glv
VRSBRPR55X	5½" Rnd Column, VPX Panel Fan, Glv
Square Column Mount	
VRSBRSQ4X	4" Sq Column, VPX Panel Fan, Painted
VRSBRSQ6X	6" Sq Column, VPX Panel Fan, Painted
In-line Column Mounting Brackets	
Round Column Mount	
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
Square Column Mount	
VRSBRP4SQ	4"-4½" Sq. Column, Black Powder Coat & Glv
VRSBRP6SQ	6"-6½" Sq. Column, Black Powder Coat & Glv
Chain Suspending Kit	
HK211	(3) 72" of Chain, w/Fan to Chain Hardware

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
Single Phase							
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
Three Phase							
* 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.

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**

⚠ 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.

24" & 36" Panel Fan



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

Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop
Single Phase							
VP24	24"	1	1	5,450	15.4	Direct	3-Alm
* VP36D	36"	1	1	10,600	20.4	Direct	3-Glv
VP36	36"	1	1	11,030	19.4	Belt	4-Glv
* VP361	36"	1	1	13,000	16.3	Belt	4-Glv
Three Phase							
VP243G	24"	3	1	5,740	13.4	Direct	3-Glv
VP363D	36"	3	1	10,470	22.3	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
24"	36"	36"	Part# Description
Swivel Offset Mounting Bracket			
Wood Post Mount			
	X	VRSBRPR6P	4"-6" Wood Post, 36" BD Panel Fan, Glv
Rigid Offset Mounting Bracket			
Round Column Mount			
	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
Square Column Mount			
	X	VRSBRSQ4	4" Sq Post, Panel Fan, Painted
	X	VRSBRSQ6	6" Sq Post, Panel Fan, Painted
In-line Column Mounting Brackets			
Round Column Mount			
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
Square Column Mount			
X	X	X	VRSBRP4SQ 4"-4½" Sq. Column, Black Powder Coat & Glv
X	X	X	VRSBRP6SQ 6"-6½" Sq. Column, Black Powder Coat & Glv
Chain Suspending Kit			
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.

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.

Whirl-Wind



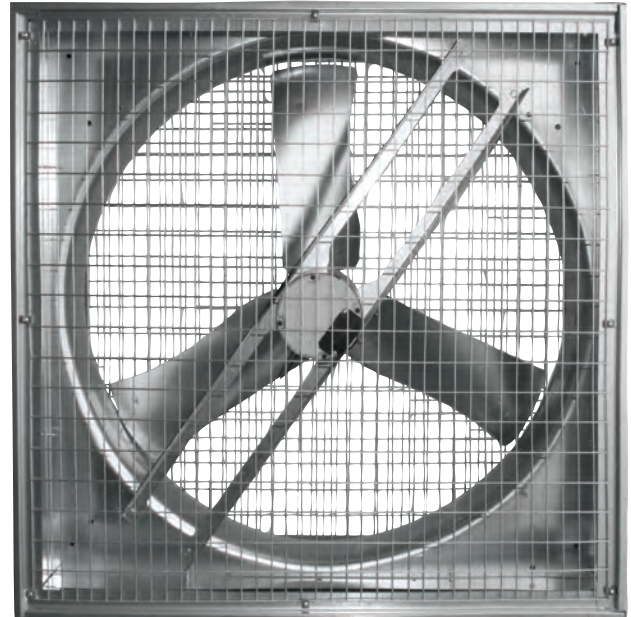
Attached hanging brackets for easy installation.



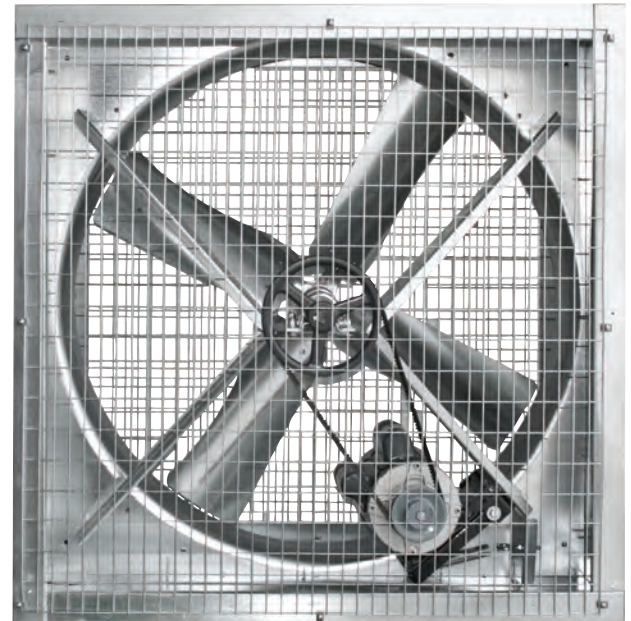
Poly guard clips to reduce vibration for quiet performance.



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 Watt	Drive	Prop	Mesh
Single Phase								
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"
Three Phase								
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) <i>(rounded to nearest 1/8")</i>
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.

Barnstormer

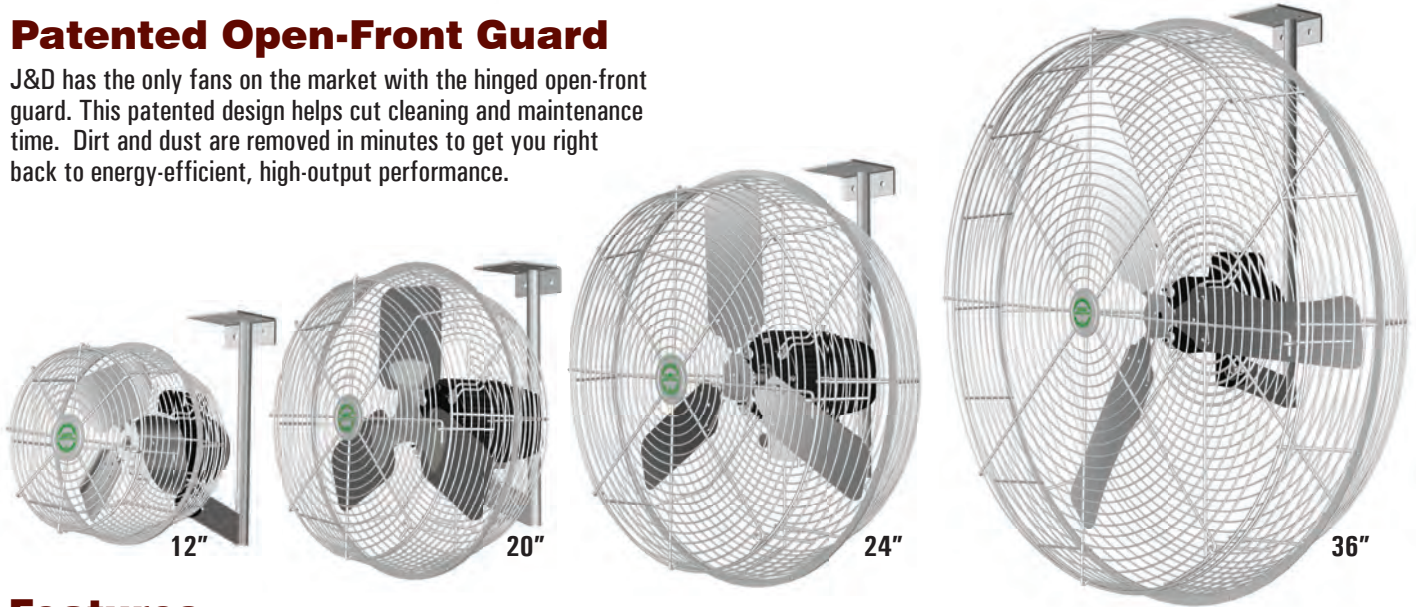
J&D Manufacturing's Barnstormer is a dependable leader in air recirculation. The patented open-front guard is an exclusive feature that drastically reduces cleaning and maintenance time. The Barnstormer's tapered guard creates a high velocity air pattern that allows greater distance between fans, which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

RECIRCULATION FANS



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

⚠ 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.

Barnstormer



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

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



Optional Mounting Brackets

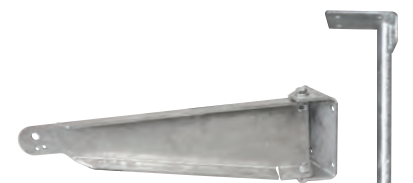


VRSBR14



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

RECIRCULATION FANS

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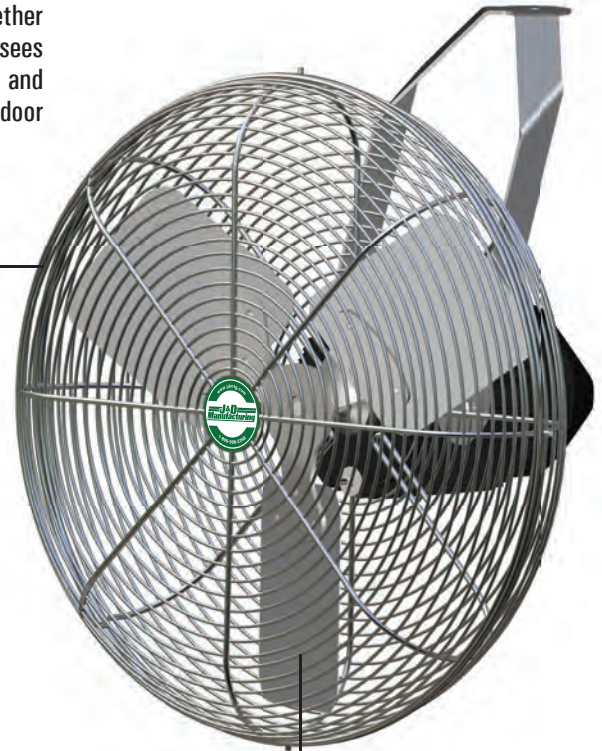
Stainless-Steel Basket Fan

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

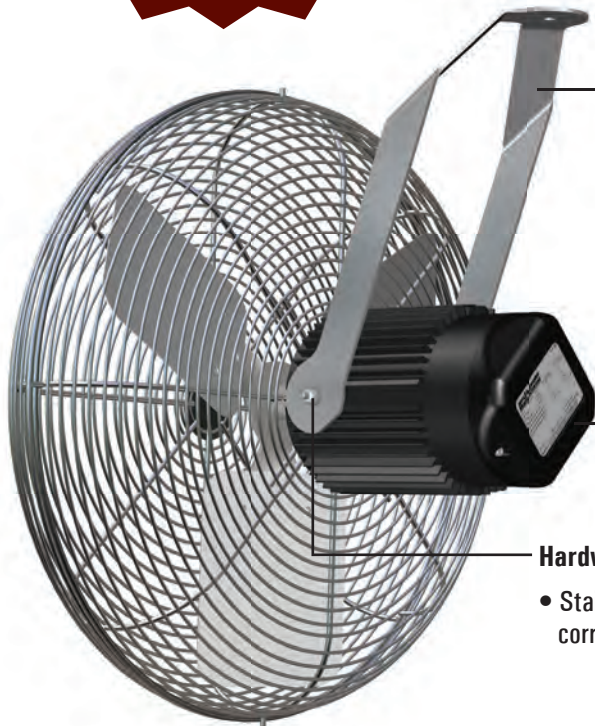
- Guard**
- 316 stainless-steel which has enhanced corrosion resistance to chloride and other acids
 - Meets OSHA 1910.212(a)(5) requirements allowing this fan to be installed at any height
 - Heavy gauge



The ultimate in corrosion resistance

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

- Prop**
- 3-blade
 - Stainless-steel for corrosion resistance



- Hardware**
- 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**



Part#	Size	Ph	Spd	Thrust CFM	Thrust CFM/Watt	Drive	Prop	Included Bracket
Single Phase								
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

⚠ 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.

RECIRCULATION FANS

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

**3
Speed**

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

Wall, Ceiling or Pole Mount Fans



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



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

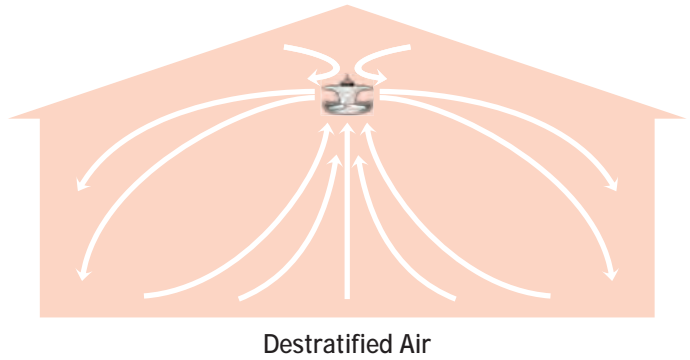
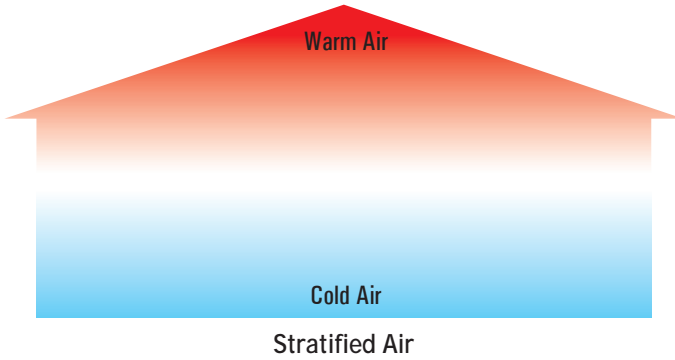
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+ GFCI (Ground Fault Circuit Interrupter) recommended on all circuits

JD360 Destratifier

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

RECIRCULATION FANS



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
Single Phase						
JD360	18"	1	1	1,790	Direct	6-Ply
Three Phase						
JD360-3	18"	3	1	1,803	Direct	8-Ply
Optional Mounting Brackets						
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

- Standard

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

Diverting cone

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

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

Guards & Frame

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

⚠ 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.

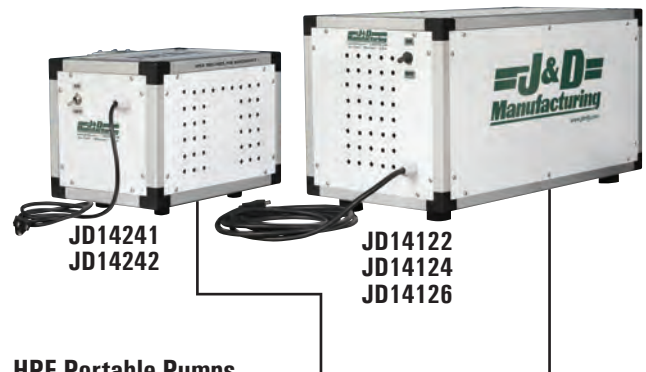
HPF JD360 Destratifier Fan Ring Kits and HPF Portable Pumps

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, reduce the fan speed and adjust the air pattern towards the plants to stimulate hardiness and growth.

No electrician needed!
Hang it up
Plug it in



Features

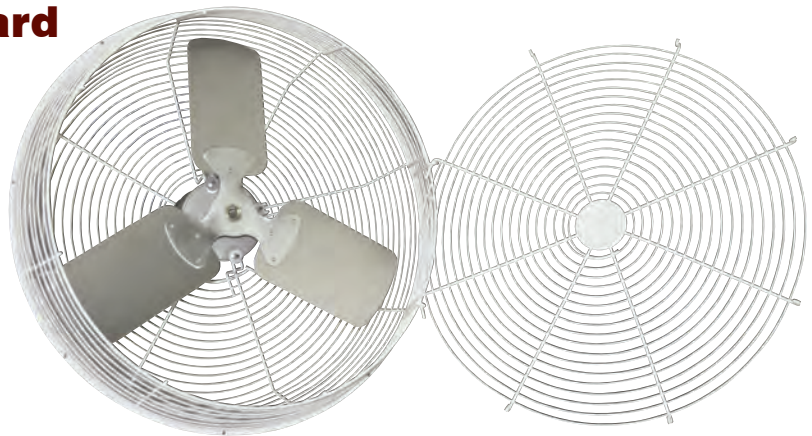
- Available in 12", 20", 24", and 36"
- Includes hot dip galvanized mounting bracket with u-bolts and hardware
- **Patented Open-Front Guard** cuts maintenance time and costs
- Variable speed motors for year-round air circulation *(requires separate variable speed control to adjust fan speed)*
- Attached 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

⚠ 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.

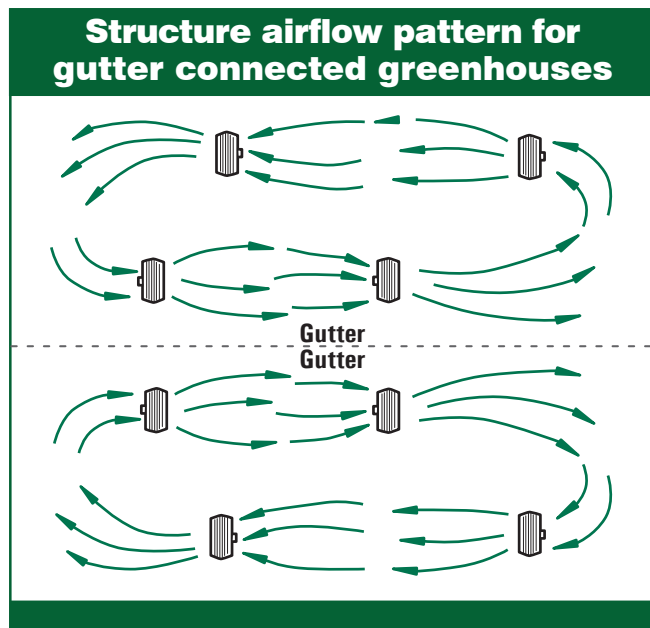
Green Breeze HAF Fan

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



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 Watt	Drive	Prop	Included Bracket
Single Phase								
VBG12	12"	1	1/Var [^]	1,060	9.2	Direct	3-Alm	VRSBR736-HDG
* VBG20	20"	1	1	3,650	11.8	Direct	3-Alm	VRSBR8-HDG
VBG24	24"	1	1	5,250	12.1	Direct	3-Alm	VRSBR5-HDG
VBG36	36"	1	1	9,810	17.4	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

⚠ 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.

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
Single Phase								
VDB12G	12"	1	1/Var^	870	10.3	Direct	3-Alm	VRSBR736-HDG
VDB16G	16"	1	1/Var^	1,520	15.6	Direct	3-Alm	VRSBR736-HDG
* VDB20G	20"	1	1/Var^	1,650	17.6	Direct	3-Alm	VRSBR8-HDG
VDB203G	20"	1	1	3,390	11.9	Direct	3-Alm	VRSBR8-HDG
VDB24G	24"	1	1	3,500	12.3	Direct	3-Glv	VRSBR5-HDG
VDB242G	24"	1	1	5,020	12.3	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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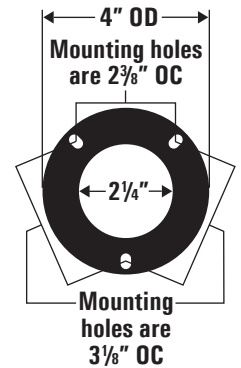
RECIRCULATION FANS

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
Round Mounting Flange Blowers					
Single Phase					
No Cord					
VBM60A-P	1/25	1	1	60	Direct
With Cord					
VBM60A-PC	1/25	1	1	60	Direct
Optional Bracket with Deflector					
VMBRKT-RND	Bracket, Round Flange				

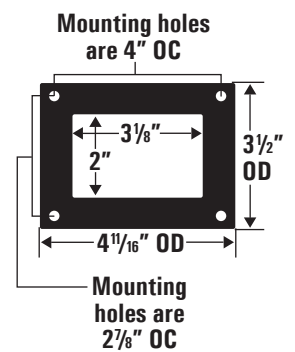


Features

- 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
Square Mounting Flange Blowers					
Single Phase					
No Cord					
VBM148A-P	1/25	1	1	148	Direct
With Cord					
VBM148A-PC	1/25	1	1	148	Direct
Optional Bracket with Deflector					
VMBRKT-SQ	Bracket, Square Flange				



RECIRCULATION FANS

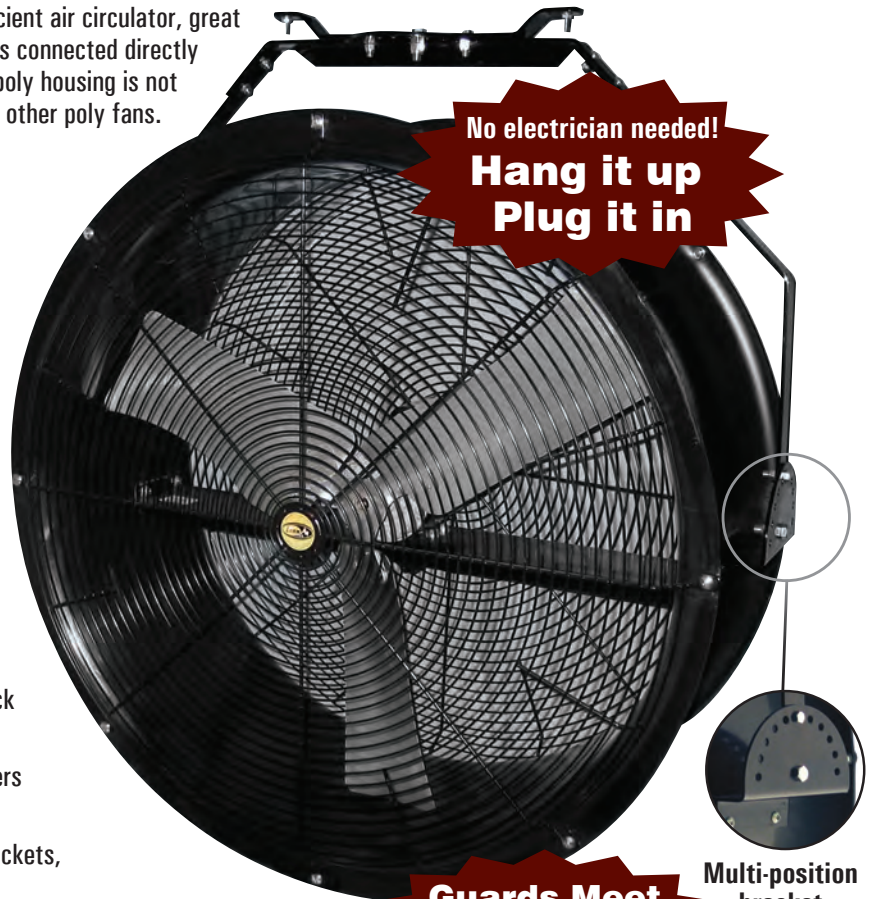
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Poly Chiller™

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

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



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

* Experts choice

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RECIRCULATION FANS

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 overload 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
Single Phase							
* VPS36A-GS	36"	1	1	8,450	17.1	Direct	3-Glv
Three Phase							
VPS36CF-GS	36"	3	1/Var^	8,560	18.9	Direct	3-Glv

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

All Poly Stormer Fans include a hot dip galvanized mounting bracket



* 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

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
Single Phase							
With Cord (pre-wired for 115V, electrician may rewire for 230V)							
VDB20-GS	20"	1	1	3,920	8.9	Direct	3-Alm
VDB24-GS	24"	1	1	5,680	11.3	Direct	3-Alm
VDB30-GS	30"	1	1	6,380	12.4	Direct	3-Alm
* VDB36-GS	36"	1	1	9,160	17.4	Direct	3-Glv
Three Phase							
No Cord							
VDB303-GS	30"	3	1	6,380	13.7	Direct	3-Alm
VDB363-GS	36"	3	1	9,810	17.7	Direct	3-Alm

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

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



* Experts choice

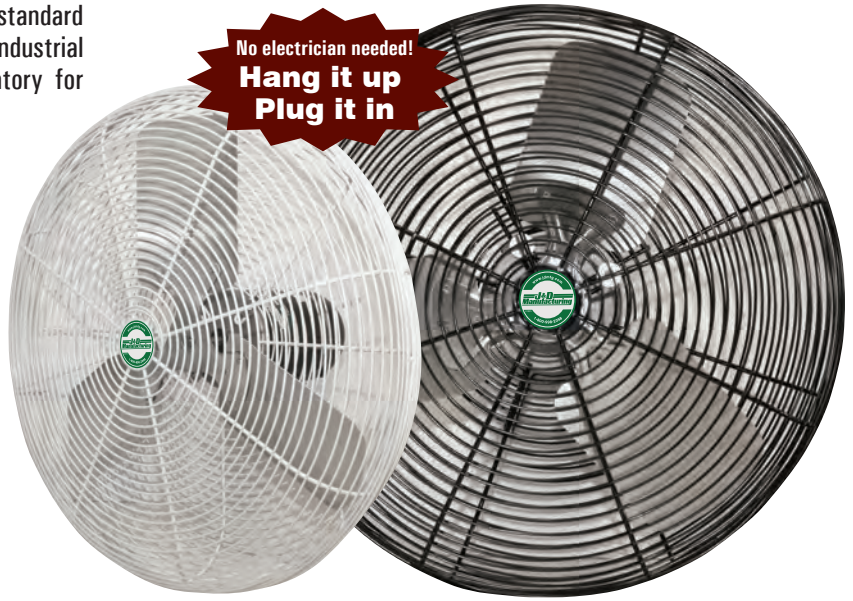
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Heavy-Duty Industrial Basket Fan with 2 & 3-Speed High-Efficiency Motors

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.

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



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.
Side Mount Brackets			
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



Shown: VRSBR901-HDG wall mount bracket with oscillating fan

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

* Experts choice

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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**



RECIRCULATION FANS

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

* Experts choice

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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
Single Phase							
VS183	18"	1	3(H)	1,560	21.3	Direct	3-Alm
			(M)	1,460	24.8		
			(L)	1,390	24.5		

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
Fiberglass Housing							
Single Phase with Gold Star Motor							
* VPP20F13P-GS	20"	1	1	4,250	13.8	Direct	3-Ply
VPP24F13P-GS	24"	1	1	4,660	16.6	Direct	3-Ply
VPP24F12P-GS	24"	1	1	6,180	12.2	Direct	3-Ply
Single Phase with Standard Motor							
VPP20F13P	20"	1	1	4,070	13.7	Direct	3-Ply
* VPP24F13P	24"	1	1	4,730	17.8	Direct	3-Ply
VPP24F12P	24"	1	1	6,080	12.1	Direct	3-Ply
Galvanized Housing							
Single Phase with Gold Star Motor							
VPP20G13A-GS	20"	1	1/Var^	4,140	11.5	Direct	3-Alm
VPP24G13A-GS	24"	1	1/Var^	4,020	13.3	Direct	3-Alm
VPP24G12A-GS	24"	1	1	5,470	15.3	Direct	3-Alm
Single Phase with Standard Motor							
VPP20G13A	20"	1	1	3,430	12.8	Direct	3-Alm
VPP24G13A	24"	1	1	4,030	14.0	Direct	3-Alm
* VPP24G12A	24"	1	1	4,790	12.9	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
Single Phase						
CF60A	60"	1	1/Var^	9,415	Direct	3-Stl
Recommended Variable Speed Controls (Not Included)						
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



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
Single Phase							
VU20F2-GS	20"	1	1	4,330	7.7	Direct	3-Alm

* Experts choice



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

*

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



⚠ 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.

Diamond Brite™ Portable Drum Fan

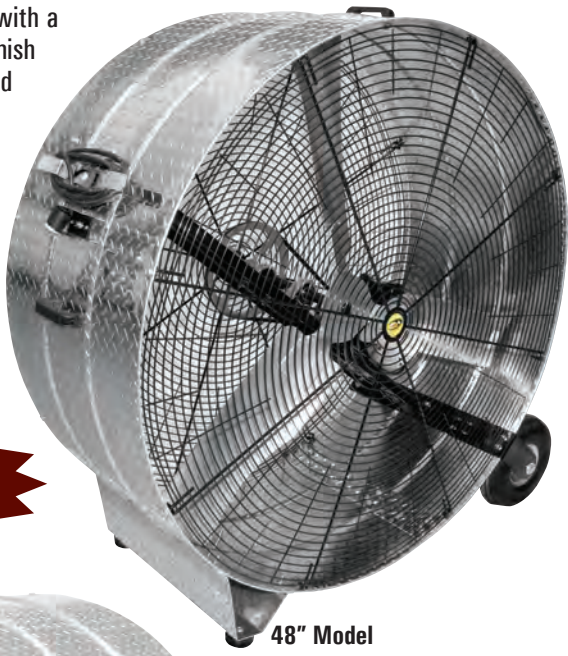
J&D Manufacturing has created a high performance series of portable drum fans with a patented Diamond Brite™ housing. These commercial-grade fans have a rugged finish and heavy gauge powder coated fan guards that meet OSHA requirements. The cord set and poly carrying handles let you take this fan anywhere 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
- Poly 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
Single Phase									
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) (L)	14,440 10,015	17.3 22.6	Belt	3-Glv	8"	On Fan
* 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.

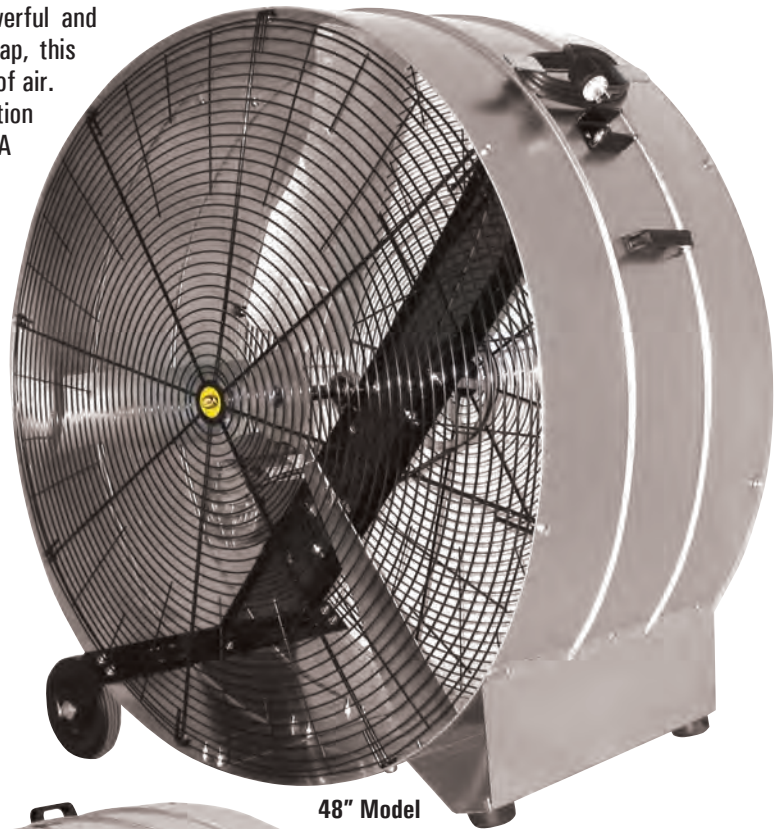
RECIRCULATION FANS

Galvanized Portable Drum Fan

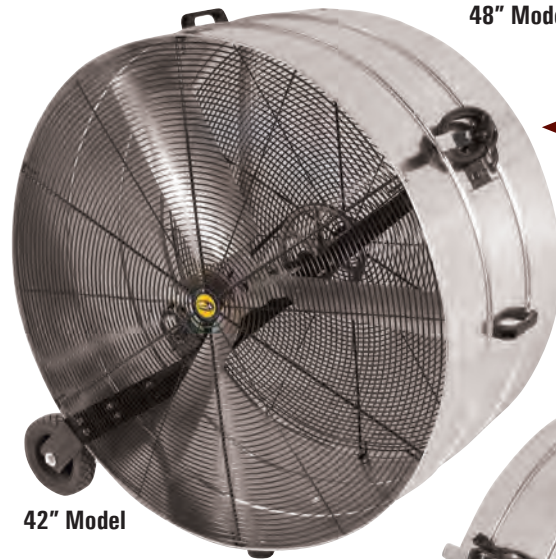
The Galvanized Drum Fan from J&D Manufacturing is powerful and portable. With sturdy wheels, carrying handles, and cord wrap, this fan is ready to roll anywhere you need to move a high volume of air. Drum Fans have heavy-duty G90 galvanized steel construction with black powder coated fan guards that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

Features

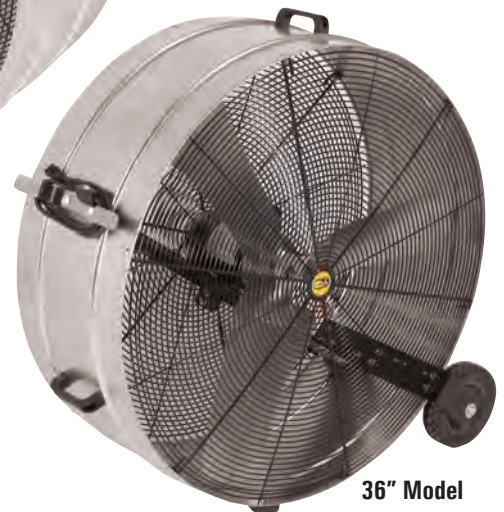
- Heavy-duty G90 galvanized steel housing
- Rubber feet for reduced noise and stable operation
- Balanced high output fan blade for excellent performance
- Ships completely assembled and ready for use
- Poly handles for easy moving or carrying
- Convenient cord wrap for storage and transportation
- Attached 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
Single Phase									
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.

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
- Poly 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



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

Part#	Size	Ph	Spd	Thrust CFM	Thrust Watt	Drive	Prop
Single Phase							
Fan with 20' of Ducting							
VICS20-GLB	20"	1	1	3,025	3.0	Direct	8-Ply
Fan Only							
VICS20	20"	1	1	3,780	3.9	Direct	8-Ply
Duct Only							
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

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
Single Phase						
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.

Tube Ventilation System

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



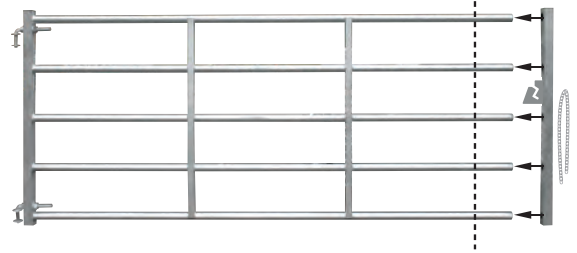
VPX Panel Fans

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



TUBE VENTILATION SYSTEMS

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

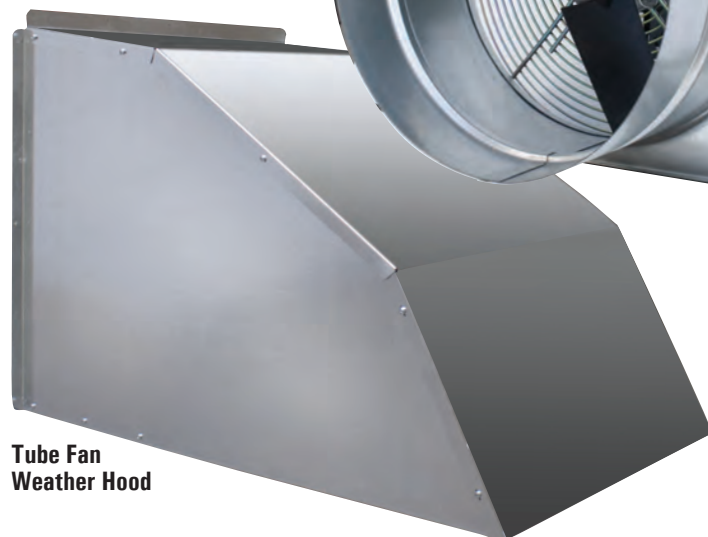
- 18-gauge galvanized housing with formed channel for securing the vent tube to the fan
- Corrosion-resistant guards
- Poly, aluminum, and galvanized propellers (not all types are available in all sizes)
- Includes cable ties for securing the tube to the fan
- Totally enclosed, maintenance-free, direct 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

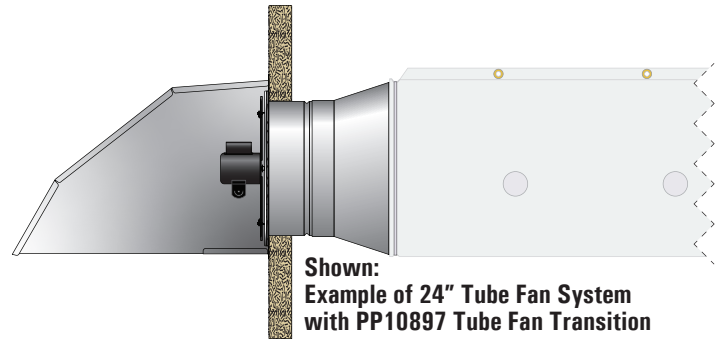
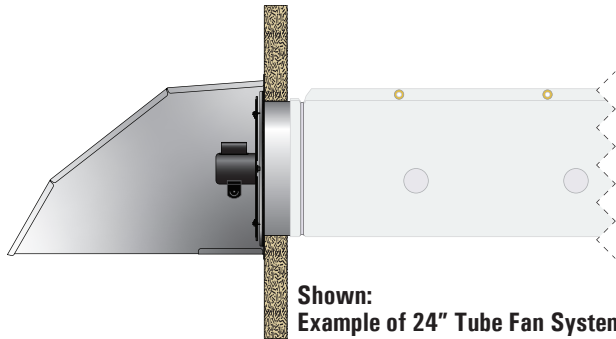


Tube Fan Weather Hood

⚠ 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.

Tube Ventilation System

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



Part#	Size	Minimum Tube Diameter	Ph	Spd	CFM @ 0.18 SP	Drive	Prop
12" - 24" Tube Fans With Weather Hood							
Single Phase							
12"							
VTGW12P12A	12"	13"	1	1	1,200	Direct	8-Ply
16"							
VTGW16P19A	16"	17"	1	1	1,900	Direct	4-Ply
VTGW16P22A	16"	17"	1	1	2,200	Direct	3-Ply
VTGW16P27A	16"	17"	1	1	2,700	Direct	6-Ply
20"							
VTGW20P33A	20"	22"	1	1	3,300	Direct	2-Ply
VTGW20P35A	20"	22"	1	1	3,500	Direct	3-Ply
VTGW20P39A	20"	22"	1	1	3,900	Direct	4-Ply
24"							
VTGW24P41A	24"	25"	1	1	4,100	Direct	3-Ply
VTGW24A45A	24"	25"	1	1	4,500	Direct	3-Alm
VTGW24P50A	24"	25"	1	1	5,000	Direct	4-Ply
VTGW24P56A	24"	25"	1	1	5,600	Direct	4-Ply
VTGW24P61A	24"	25"*	1	1	6,100	Direct	4-Ply
VTGW24P65A	24"	25"*	1	1	6,500	Direct	4-Ply
VTGW24P72A	24"	25"*	1	1	7,200	Direct	4-Ply
Three Phase							
24"							
VTGW24P41A-3	24"	25"	3	1	4,100	Direct	3-Ply
VTGW24P44A-3	24"	25"	3	1	4,400	Direct	4-Ply
VTGW24P47A-3	24"	25"	3	1	4,700	Direct	4-Ply
VTGW24P53A-3	24"	25"	3	1	5,300	Direct	4-Ply
VTGW24P60A-3	24"	25"*	3	1	6,000	Direct	4-Ply
VTGW24P64A-3	24"	25"*	3	1	6,400	Direct	4-Ply
VTGW24P72A-3	24"	25"*	3	1	7,200	Direct	4-Ply
Accessories							
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
30"-36" Tube Fans Without Weather Hood**							
Single Phase							
30"							
VTG30A63A	30"	32"	1	1	6,271	Direct	3-Alm
VTG30A69A	30"	32"	1	1	6,866	Direct	3-Alm
VTG30A74A	30"	32"	1	1	7,351	Direct	3-Alm
Three Phase							
30"							
VTG30A62A-3	30"	32"	3	1	6,235	Direct	3-Alm
VTG30A67A-3	30"	32"	3	1	6,692	Direct	3-Alm
VTG30A73A-3	30"	32"	3	1	7,254	Direct	3-Alm
36"							
VTG36GA86A-3	36"	38"	3	1	8,600	Belt	4-Glv
VTG36GA92A-3	36"	38"	3	1	9,200	Belt	4-Glv
VTG36GA96A-3	36"	38"	3	1	9,500	Belt	4-Glv
VTG36GA103A-3	36"	38"	3	1	10,300	Belt	4-Glv
VTG36GA112A-3	36"	38"	3	1	11,200	Belt	4-Glv
VTG36GA121A-3	36"	38"	3	1	12,100	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

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

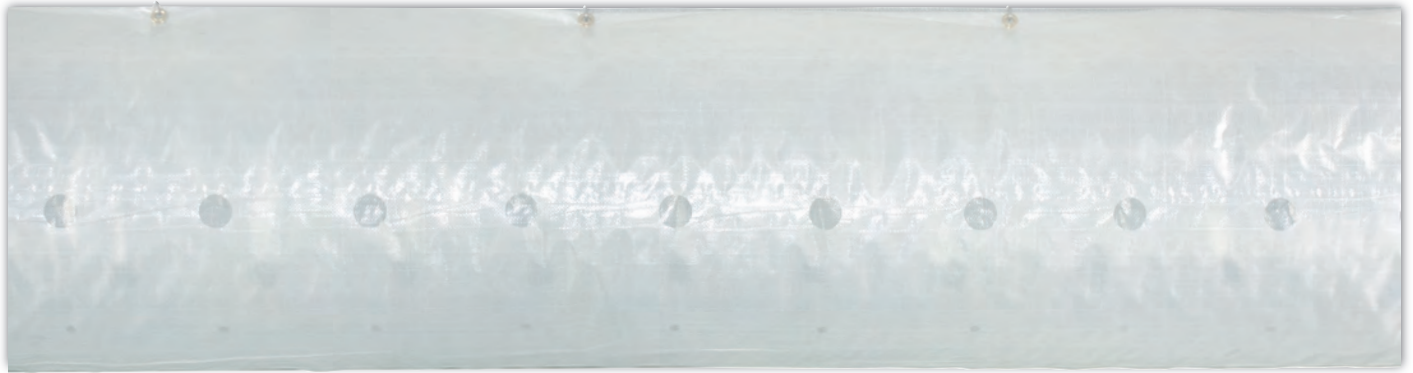


For additional accessories to compliment your Tube Ventilation System refer to the following catalog sections, "Environmental Controls" for a complete line of J&D Controls and "Inlets" for a selection of J&D Aluminum Intake Power Shutters.

TUBE VENTILATION SYSTEMS

⚠ 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.

Ventilation Tubes

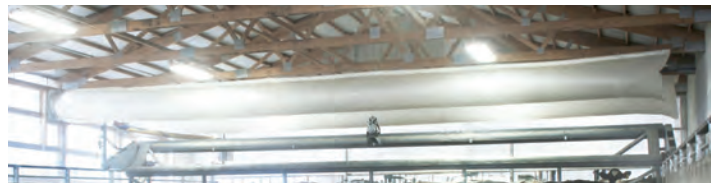


J&D's reinforced poly ventilation tubes have the quality and options to meet your needs. Whether completing your new tube system, replacing a worn or damaged tube, or just updating your airflow pattern, J&D can help. Ventilation tubes are individually built for each application to provide proper airflow.

Call today to discuss your ventilation requirements.

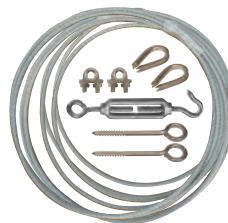
Features

- 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 enables 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
Cable Kits	
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
Tools, Rings & Clips	
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
Single Phase													
VRPM011D412-C	Thru Bolt	56	1	230	7.8	60	1	1.10	1/V [^]	1,200	5/8"	Keyway	8'
Three Phase													
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

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!**
- IP65-Rated
- Motor made in the U.S.A.
- Surge protected
- Will not interfere with RFID

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

Aluminum Housing

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

Drop Cords

- 8' power cord
- 8' control cord



Motor

- Permanent magnet rotor for increased efficiency and motor life

Shaft

- Corrosion-resistant stainless-steel

Mount Options

- Rigid Base (shown)
- Sleeve

Part #	Mount	Frame	Kw	Volts	Amps	Hz	Ph	SF	Spd	RPM	Shaft Size	Shaft Type	Cord Length
Single Phase													
VRPM031D16-C	Rigid Base	182	2.2	208-240	11.3-9.9	60	1	1.00	1/V [^]	100-600	1"	Keyway	8'
VRPM031D26-C	Sleeve	182	2.2	208-240	11.3-9.9	60	1	1.00	1/V [^]	100-600	1"	Keyway	8'
Three Phase													
VRPM033D16-C	Rigid Base	182	2.2	190-208-240	10.9-11.7-10.1	60	3	1.00	1/V [^]	100-600	1"	Keyway	8'
VRPM033D26-C	Sleeve	182	2.2	190-208-240	10.9-11.7-10.1	60	3	1.00	1/V [^]	100-600	1"	Keyway	8'
VRPM033F16B-C	Rigid Base	182	2.2	380-460	6.2-5.2	60	3	1.00	1/V [^]	100-600	1"	Keyway	8'
VRPM033F26B-C	Sleeve	182	2.2	380-460	6.2-5.2	60	3	1.00	1/V [^]	100-600	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.

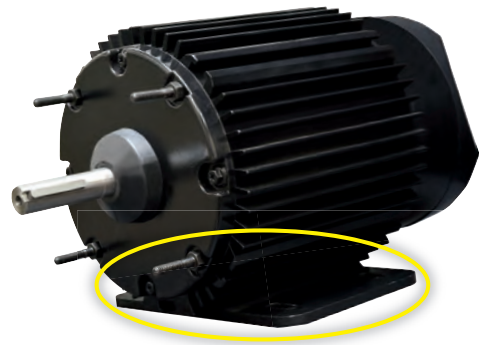
Gold Star Motor

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

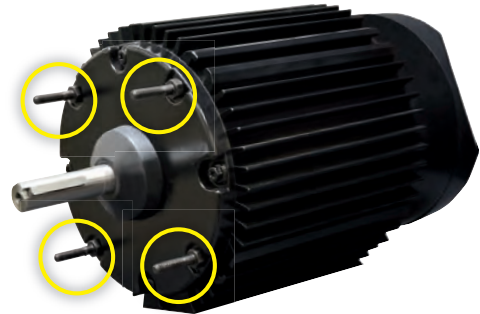


- IP66-Rated
 - Dust tight
 - Can be washed down from any angle
- Aluminum finned housing for incredible heat dissipation
- Multiple mounting options
 - Rigid base mount
 - Thread mount
 - Yoke mount
- Tapered and sealed bearings allow this motor to operate in any position
 - Vertical, horizontal, or 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**



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

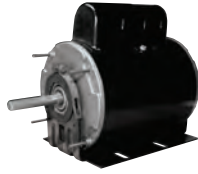
The perfect solution for replacement and retrofitting!

REPLACEMENT FAN PARTS

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
Belt Drive Motors (without cords)												
Single Phase												
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
Three Phase												
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
Direct Drive Motors (without cords)												
Single Phase												
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
PFM14-P	Thru Bolt	48YZ	1/4	115/230	3.2/1.6	60	1	1.00	1/V	1,625	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
Three Phase												
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
Three Phase												
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 PARTS

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
Single Phase														
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'

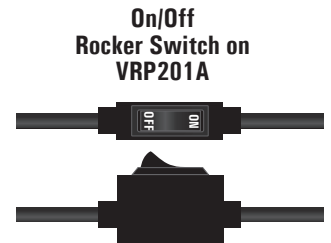
Replacement fan motors above include a 2 year warranty from date of invoice from J&D Manufacturing.

Direct Drive Motors with Cord

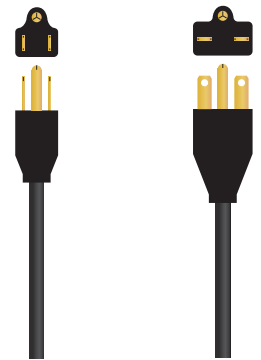
Part #	Mount	Frame	HP	Volts	Amps	Hz	Ph	SF	Spd	RPM	Shaft Size	Shaft Type	On/Off Switch	Cord Length
Single Phase														
VR110ES-P	Lug Mount	5.3" BC	1/32	115	0.57	60	1	1.10	3	1,550	3/8"	Flat	Pull Chain	9'
VR13ES-P	Lug Mount	5.9" BC	1/8	115	2.0	60	1	1.10	2	1,050	3/8"	Flat	Pull Chain	9'
VR183A-P	Lug 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	1/40	115	1.35	60	1	1.00	3	1,625	3/8"	Flat	Pull Chain	9'
VR110EBA-C-P	Thru Bolt & Yoke	48	1/40	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.

REPLACEMENT FAN PARTS



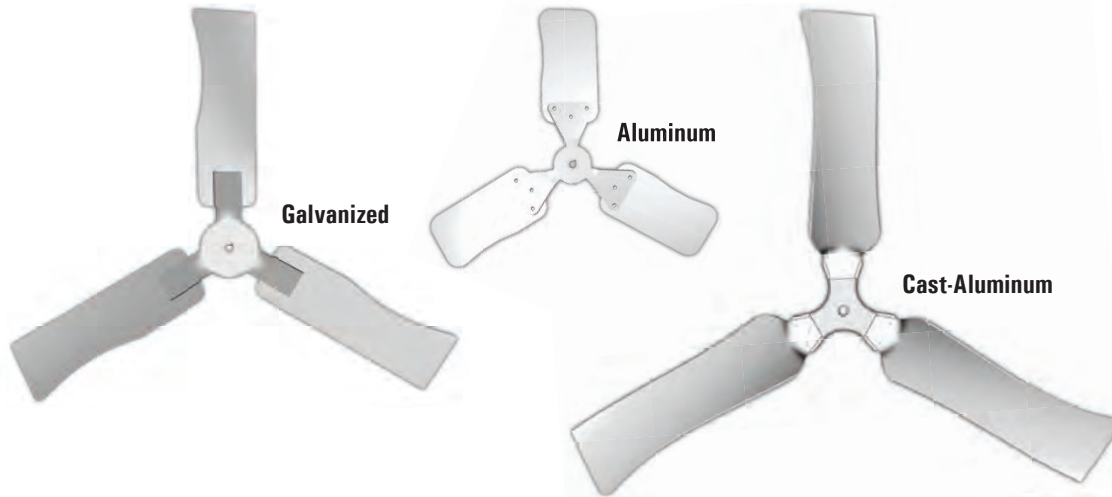
- VRP201A
 - VRP252
 - VRP327
 - 110 Volt
 - NEMA 5-15P
 - 3 Prong Plug
- PP10373
 - PP10054
 - 240 Volt
 - NEMA 6-15P
 - 3 Prong Plug



Replacement Cords

Part#	Description	Length	AWG	Amps
110 Volt Plug				
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
240 Volt Plug				
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
10" Props						
VRB10ESA-P	8MM	10"	3	CW	Alm	Direct
12" Props						
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
16" Props						
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
18" Props						
VRB18A-P	1/2"	18"	3	CW	Alm	Direct
VRB18A8-8-P	8mm	18"	3	CW	Alm	Direct
20" Props						
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
24" Props						
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
25" Props						
VRB25A-P	5/8"	25"	3	CW	Alm	Direct
30" Props						
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
36" Props						
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
42" Props						
VRB42A-P	1"	42"	3	CW	Glv	Belt
48" Props						
VRB48G3-P	1"	48"	3	CW	Glv	Belt
VRB48G6-P	1"	48"	6	CW	Glv	Belt
50" Props						
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
55" Props						
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
60" Props						
VRB60G3A-P	1"	60"	3	CW	Glv	Belt
72" Props						
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.

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 + 3¾ + -P

Using this example your part number would be: **VRP24456583¾-P**

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

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
PPFW + 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
PPFW + 12 + 30 + 3¾

Using this example your part number would be: **PPFW12303¾**

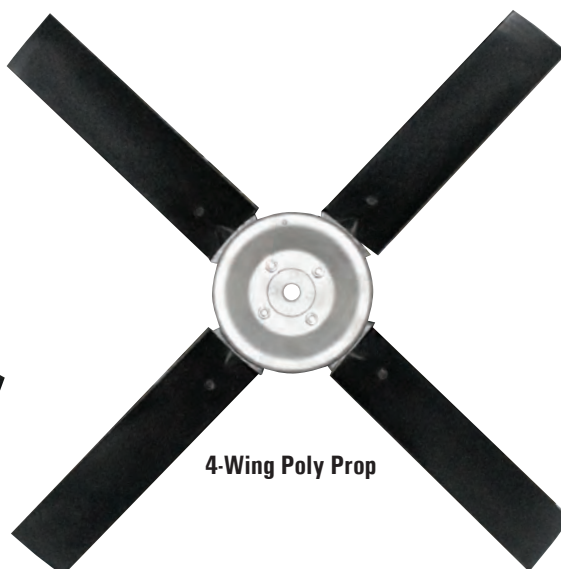
Accessory

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.



3-Wing Poly Prop



4-Wing Poly 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.

Replacement Props with Glass-Filled Poly Composite Blades

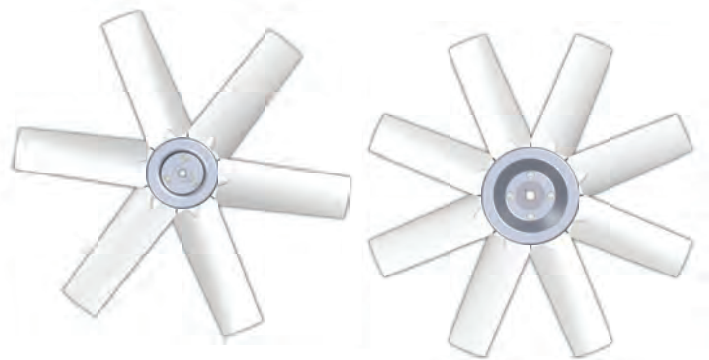
Part#	Bore Size	Fan Size	# of Blades	Rotation	Material	Drive
Standard						
50" Prop						
VRB50P340C-P	1"	50"	3	CW	Ply	Direct
55" Prop						
VRB55P338C-P	1"	55"	3	CW	Ply	Direct
58" Prop						
VRB58P332C-P	1"	58"	3	CW	Ply	Direct
VRB58P334C-P	1"	58"	3	CW	Ply	Direct
VRB58P338C-P	1"	58"	3	CW	Ply	Direct
VRB58P340C-P	1"	58"	3	CW	Ply	Direct
VRB58P544C-P	1.5"	58"	5	CW	Ply	Direct
60" Prop						
VRB60P334C-P	1"	60"	3	CW	Ply	Direct
VRB60P338C-P	1"	60"	3	CW	Ply	Direct
72" Prop						
VRB72P529E-P	1.5"	72"	5	CW	Ply	Direct
Heavy-Duty Turbo Props						
55" Prop						
VRB55P325C-HD-P	1"	55"	3	CW	Ply	Direct
VRB55P331C-HD-P	1.5"	55"	3	CW	Ply	Direct
58" Prop						
VRB58P325C-HD-P	1"	58"	3	CW	Ply	Direct



REPLACEMENT FAN PARTS

Replacement Props for JD360

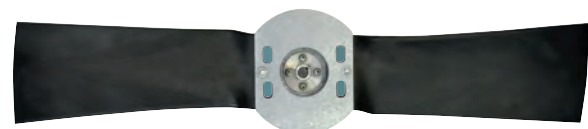
Part#	Bore Size	Fan Size	# of Blades	Rotation	Material	Drive
18" Prop						
VRP1835612334W-P	1/2"	18"	6	CCW	Ply	Direct
VRP1845858514W-P	5/8"	18"	8	CCW	Ply	Direct



Replacement Props with FRN Blades

FRN (Fiberglass Reinforced Nylon)

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

Direct Drive Conversion Kits

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 29,233 CFM @ 0.10" SP
- Slow down a Direct Drive Storm by 30% and **save 62% on electricity** and still achieve an incredible 21,235 CFM @ 0.10" SP

Variable Speed

- No VFD needed
- Greater control
- Savings

Maintenance-Free

- No belts
- No pulleys
- No greasing



Part #	Spd	Drive	Prop
Single Phase			
VRJ55P3PM221A	1/V^	PM-D	3-Ply
Three Phase wired for 190-240V			
VRJ55P3PM223B	1/V^	PM-D	3-Ply
Three Phase wired for 380-460V			
VRJ55P3PM223C	1/V^	PM-D	3-Ply
Template Kit			
HK225	Drill Templates, BD to DD Retrofit		

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

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.

- Achieve 30,448 CFM @ 0.10" SP, 15.6 CFM/W
- 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
- IP65-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			
VRMU55P3223C	1/V^	PM-D	3-Ply

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

⚠ 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.

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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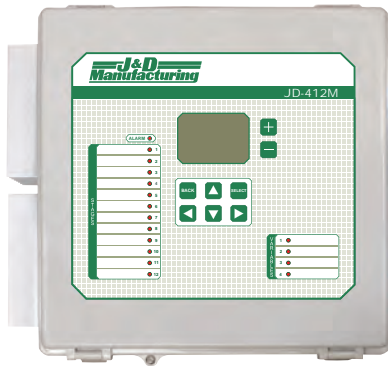
THE HEART OF YOUR FACILITY

**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.

ENVIRONMENTAL CONTROLS

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.

ENVIRONMENTAL CONTROLS

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*)

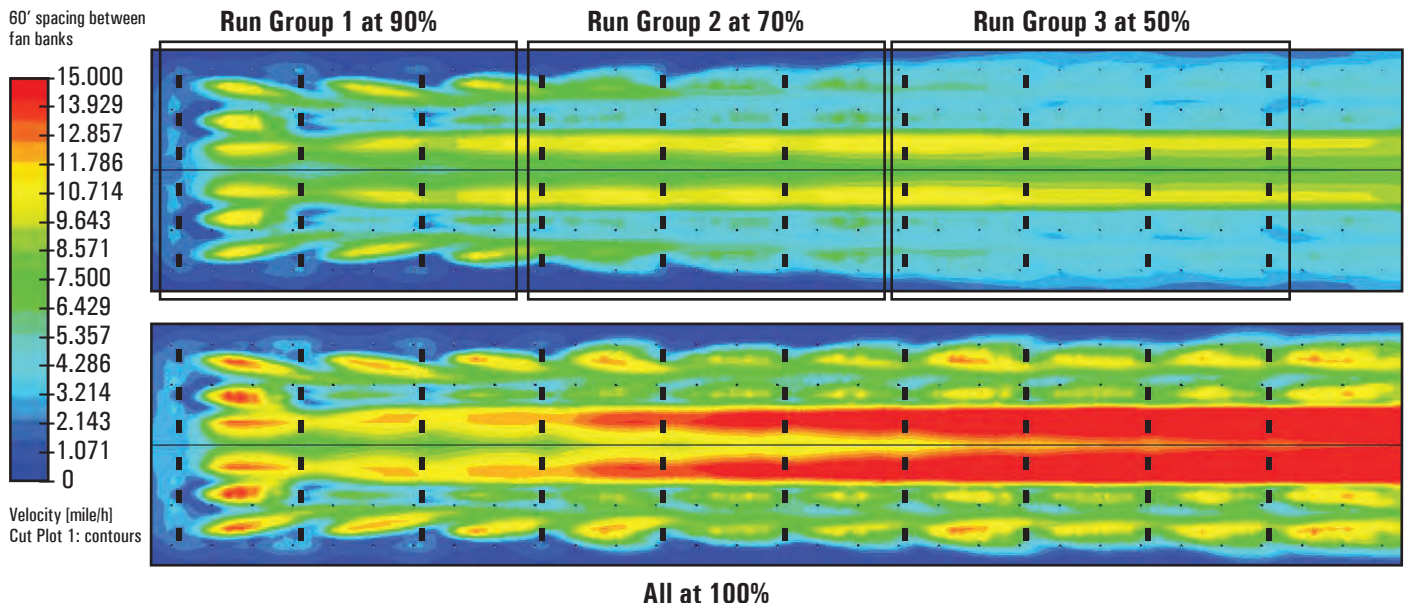
System Alerts

- 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.



ENVIRONMENTAL CONTROLS

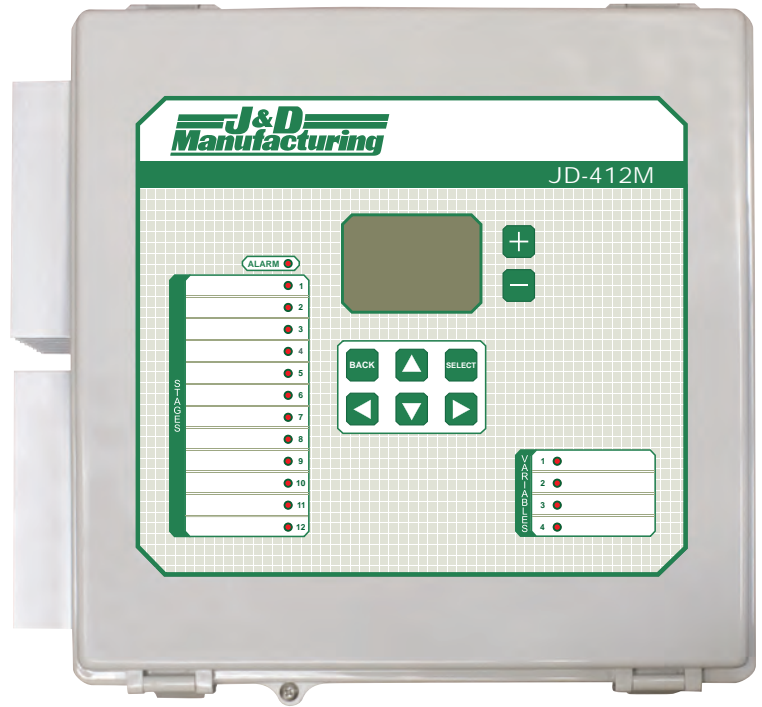
JD412M Series

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 $\pm 90^{\circ}\text{F}$ ($\pm 32^{\circ}\text{C}$)
- Ambient temperature range 32 to 122° F (0 to 50° C)
- Rugged and sealed enclosure (13" x 13" x 5 1/4")



- 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
Accessories	
JDM010	External module, 2 outputs, 0-10V each, 20MA, 230V
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
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.

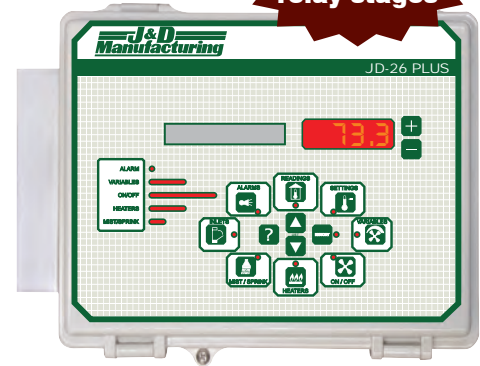
JD26 PLUS

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
Accessories				
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			
JDMM4	Removable Memory Device			
JDMM4U	Removable Memory Device, Plus Programmer & USB			
JDNETIN2	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
- 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**

Part#	Description	Volts	Hz	Amps	Stages
JDN2	Natural Ventilation Control	115/230	50/60	12 FLA	2
Accessories					
JDMM4	Removable Memory Device				
JDMM4U	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				



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
Accessories	
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

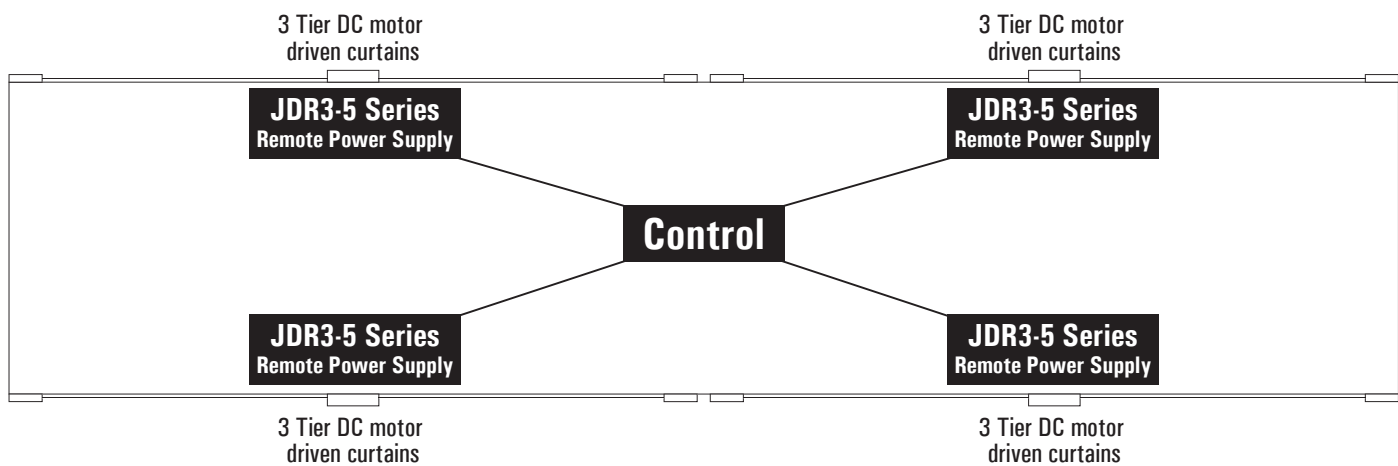
JDR3-5 Series - Remote Power Supply

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 (11 3/4" x 15 1/2")



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

ENVIRONMENTAL CONTROLS

Part#	Description	Volts	Watt Capacity
JDN5-PLUS	Control, 5 Unit, Automated, with 3' Temperature Probe	24	500
Accessories			
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.

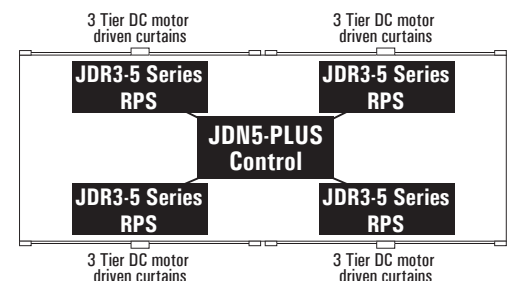


NOTE: If using relays for fans

- 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



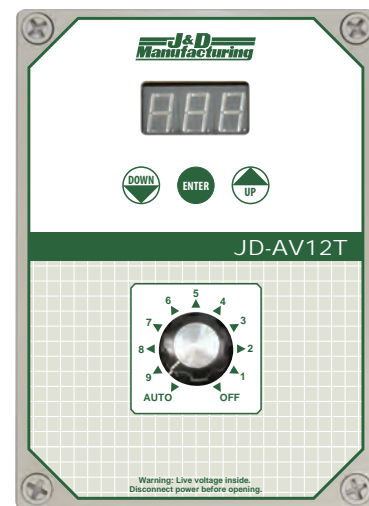
Part#	Description	Volts	Hz	Stages
JDAV010M	Control, Manual, 0-10V, ON/OFF Switch and Dial	115-277	50/60	1
JDAV010M-C	Control, Manual, 0-10V, ON/OFF Switch and Dial, with Cord	115	60	1

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
Accessories				
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			

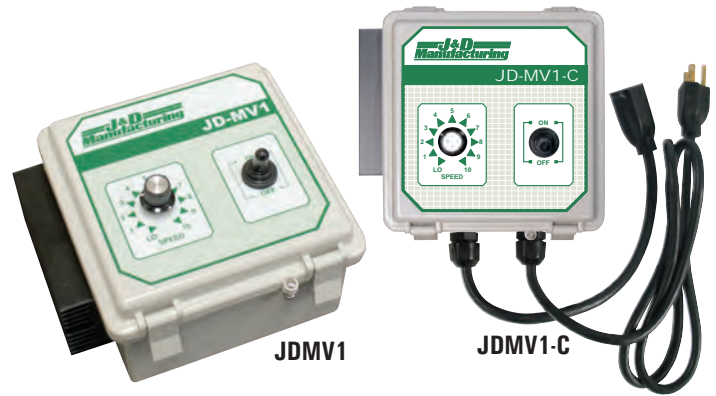
ENVIRONMENTAL CONTROLS

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**



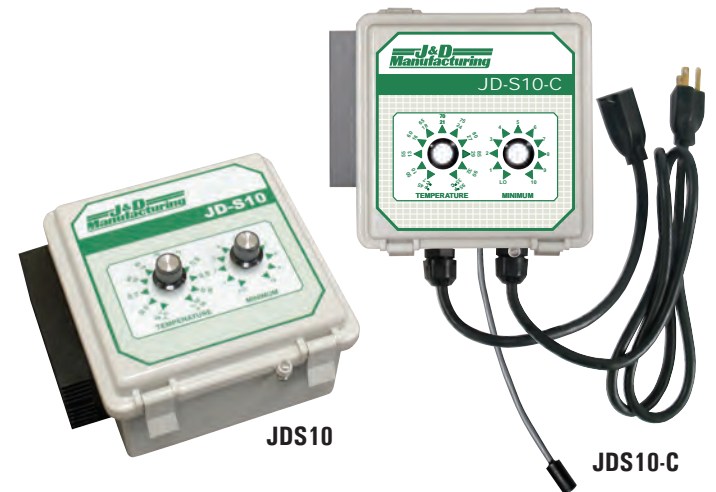
Part#	Description	Volts	Hz	Amps	Stages
JDMV1	Control, Manual Variable Output	115/230	50/60	12 FLA	1
JDMV1-C	Control, Manual Variable Output with 8' Cord	115	60	12 FLA	1
Replacement Parts					
JDMV1-DB-B	Display Board				
JDMV1-MB-B	Main Board				

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
Replacement Parts					
JDS10-DB-B	Display Board				
JDS10-MB-B	Main Board				
Accessories					
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
Accessories					
JDDTP-10SS	10' Sensor, Epoxy Filled Stainless-Steel Sheath, -58° to 230°F				



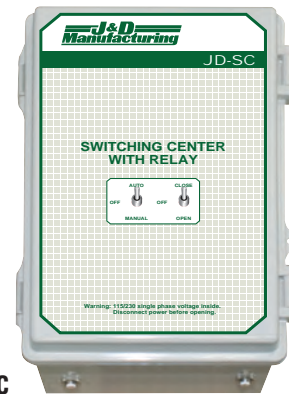
JDDT1
JDDT2

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



JDSC

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.



CN25
CN5



VFT130144
CN15

⚠ 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.

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**



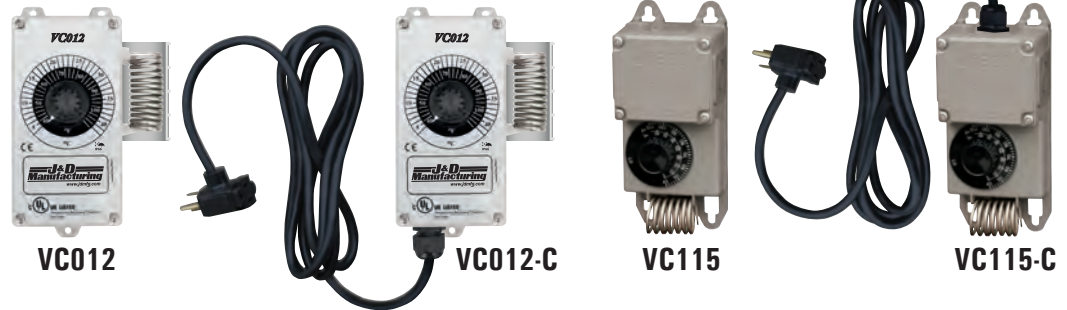
Part#	Description	Dial Set Points	Size
VCB0010VS	Backup Moisture Proof Thermostat	40° to 100°F (5° to 38°C)	3½" x 7" x 5"

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	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.



ENVIRONMENTAL CONTROLS

⚠ 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.



CURTAINS



Magnum 58" Exhaust Fan
The Magnum 58" Exhaust Fan uses our JD Drive Motor, a 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.



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.

PAGE 103



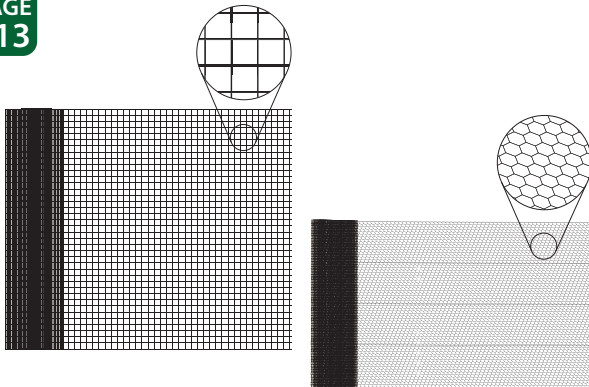
J&D Manufacturing's DC Curtain System with the sealed keder curtain and matching roll tube for easy installation and trouble-free operation.



CURTAINS

MANUAL OR MOTORIZED 24 VOLT DC CURTAIN SYSTEM

PAGE 113



PVC COATED WIRE MESH

Choose, 12-gauge welded 2"x2" PVC Coated Wire Mesh or 20-gauge 1" hex-shaped woven PVC Coated Bird Wire Mesh

PAGE 114



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

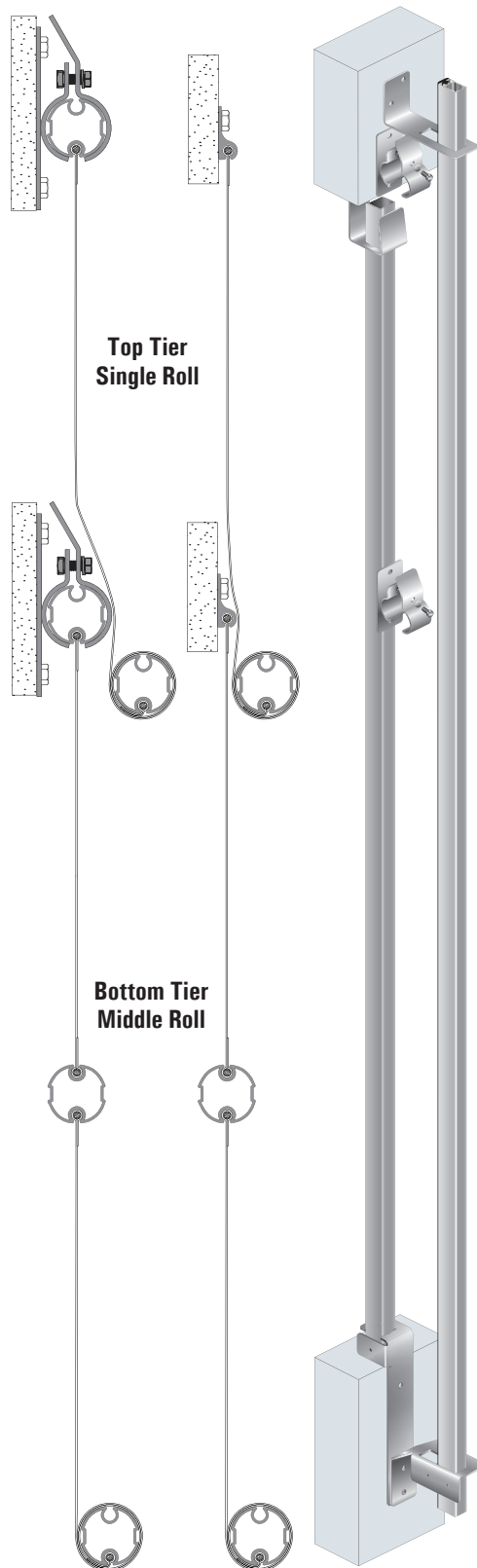
Wind Pockets and Restraints

- 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.

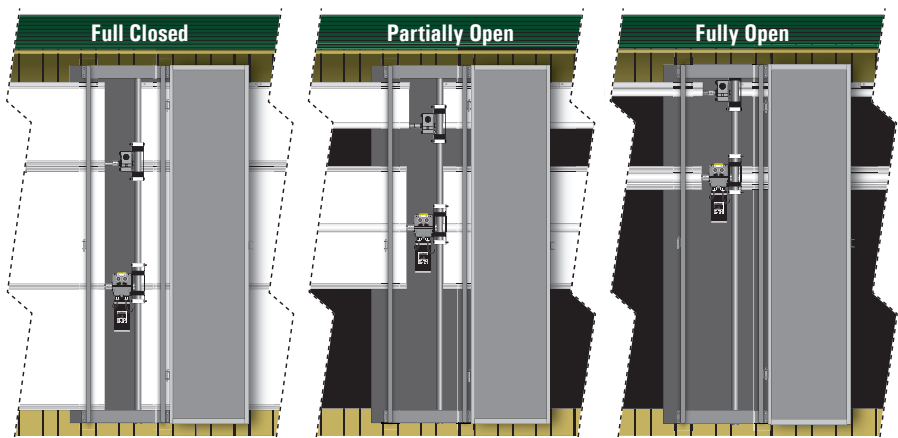
Manual or Motorized 24 Volt DC Curtain System



Common Curtain Arrangements

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

CURTAINS

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Curtain Material and Components

Curtain Material

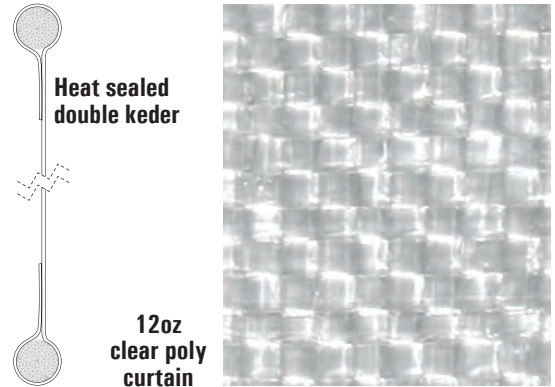
J&D Manufacturing's reinforced woven polyethylene curtain has a uniquely engineered coating for maximum durability and strength. Unlike sewn hems that can fray and unravel, J&D's curtain has a heat sealed keder that will not separate.

Features

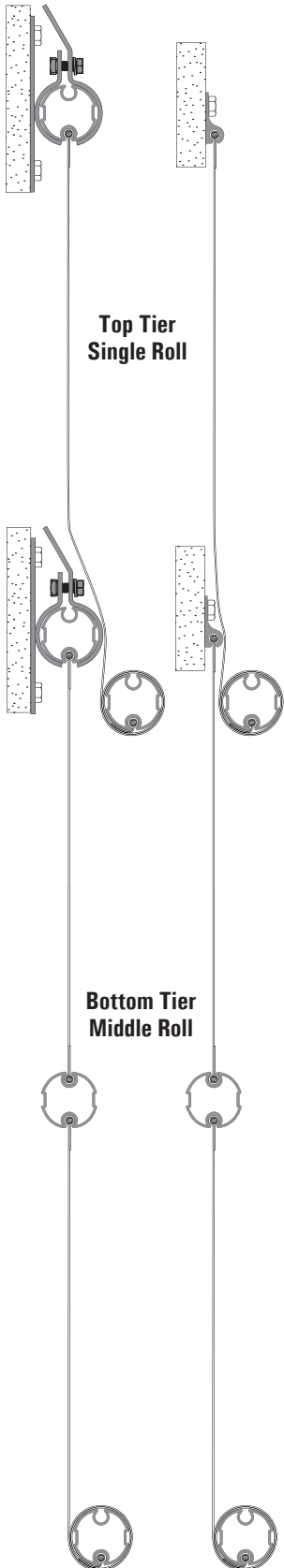
- 12oz clear polyethylene curtain with double stretching technology has 20% more tensile and tearing strength than 10oz curtain
- Unique design allows GREATER light penetration than competitive curtains
- Heat sealed curtain keder — not sewn or stitched — prevents tearing and fraying
- Double keder slides 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"

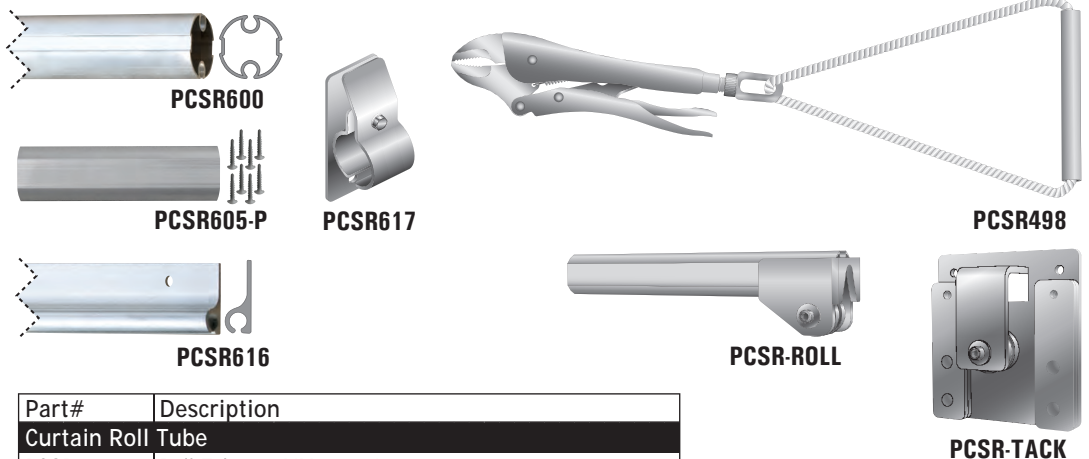
* Minimum size



CURTAINS



Curtain Installation Components



Part#	Description
Curtain Roll Tube	
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*
Curtain Tack Strip	
PCSR616	Tack Strip, 16' Long for Curtain Systems

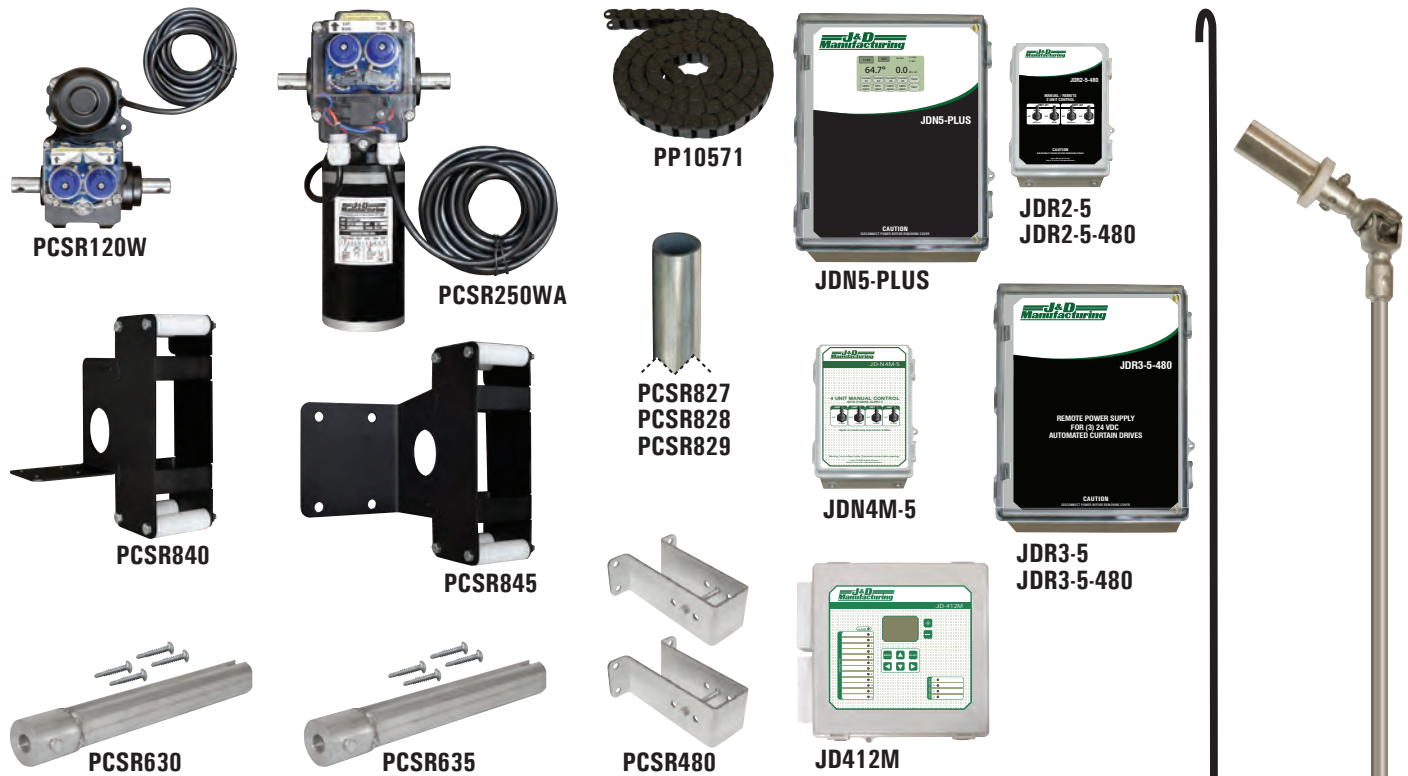
* Includes assembly hardware only - installation hardware sold separately

Installation Tools

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

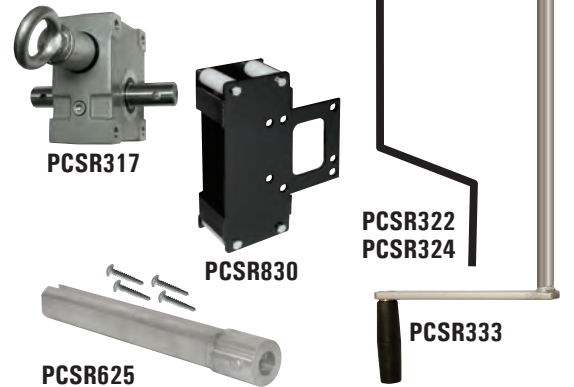
⚠ WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov/product.

Curtain Drives & Components



Motorized Drives & Components

Part#	Description
Auto Drive	
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, 1 5/8", 10 Gauge, 14'
PCSR828	Climbing Pole, 1 5/8", 10 Gauge, 16'
PCSR480	Mounting Brackets, for Climbing Pole, Set (2)
Controls	
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
Control Accessories	
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



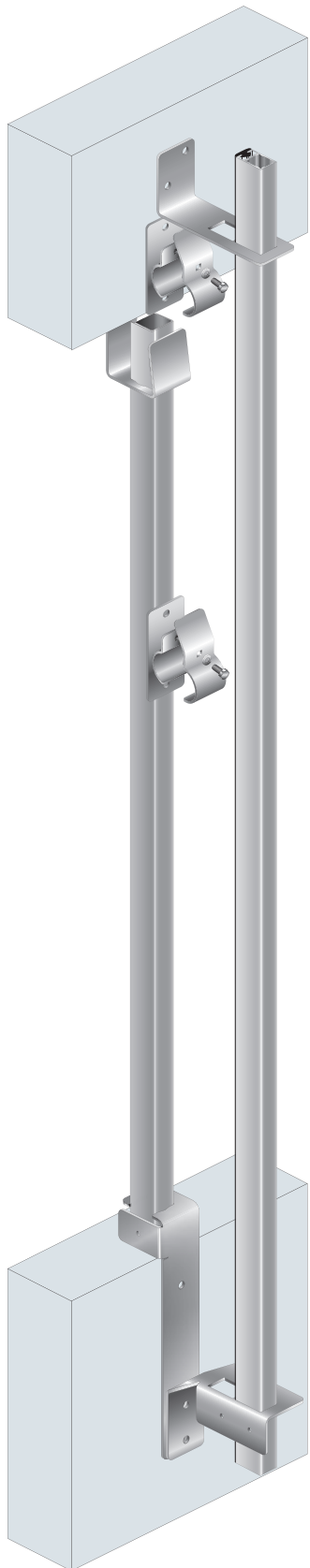
Manual Drives & Components

Part#	Description
Manual Drive	
PCSR317	Curtain Drive, Manual, Dual Shaft
PCSR625	26MM Roll Tube Adapter Manual Curtain Drive
PCSR830	Climbing Bracket, Manual Drive, w/Hardware
PCSR827	Climbing Pole, 1 5/8", 10 Gauge, 14'
PCSR828	Climbing Pole, 1 5/8", 10 Gauge, 16'
PCSR829	Climbing Pole, 1 5/8", 10 Gauge, 17'
PCSR480	Mounting Brackets, for Climbing Pole, Set (2)
Manual Drive Accessories	
PCSR322	Shepherds Hook Only, 6'
PCSR324	Shepherds Hook Only, 9'
Other	
PCSR333	Hand Crank, 6' with U-Joint & Adapter

CURTAINS

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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

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Curtain Wind Restraint Systems

1½" Square Wind Pipe System

Part#	Description
1½" Square Pipes	
PCSR930	Wind Pipe, 1½" Square x 14', 12 Ga. Galv.
PCSR931	Wind Pipe, 1½" Square x 16', 12 Ga. Galv.
1½" Square Mounting Brackets	
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.

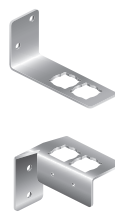
**PCSR930
PCSR931**
1½" Square
Wind Pipe



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



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



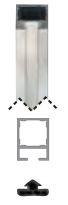
**PCSR942
(SET)**
Inside Mount
Square/Round
Bracket



Rectangle Wind Pipe with Rubber Cushion System

Part#	Description
Pipes	
PCSR917	Wind Pipe, 1" x 1½", Aluminum 12'
PCSR918	Wind Pipe, 1" x 1½", Aluminum 14'
PCSR919	Wind Pipe, 1" x 1½", Aluminum 16'
Rubber Cushion	
PP10381	Rubber Cushion, Alum Wind Pipe, Roll 100'
Mounting Brackets	
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
Pipes	
RPGT190011205	Wind Pipe, 1.9" Round x 205", 11 Ga. Galv.
RPGT190011288	Wind Pipe, 1.9" Round x 288", 11 Ga. Galv.
Mounting Brackets	
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, 1⅞" 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



⚠ 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.

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

⚠️ 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.

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 *
Accessory			
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').

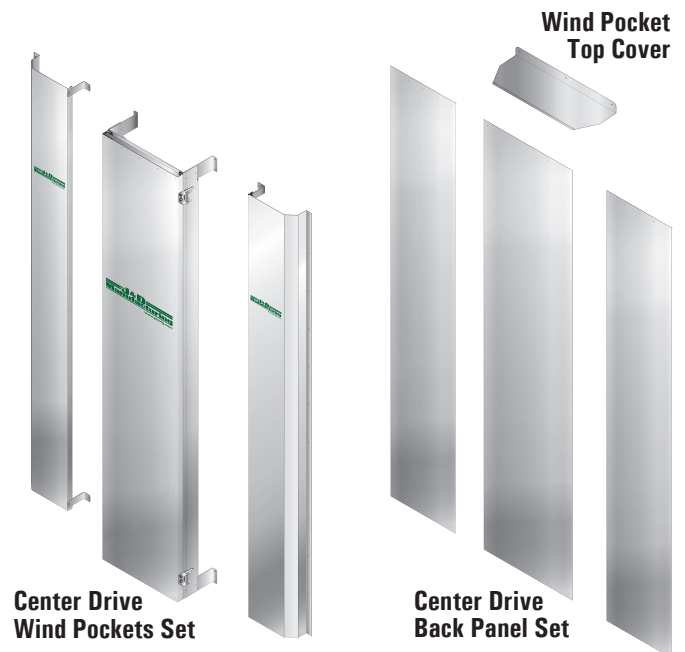
Center Drive Curtain Wind Pocket Sets

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 *
Accessory			
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').

CURTAINS

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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.

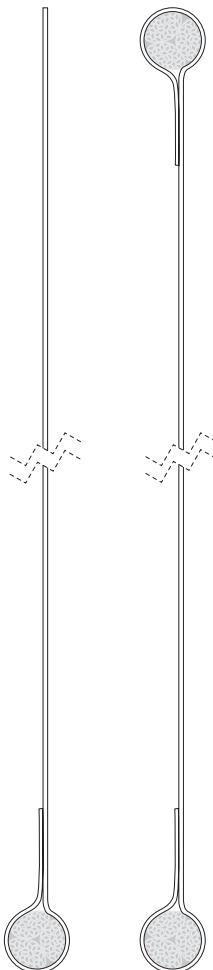
Features

- 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

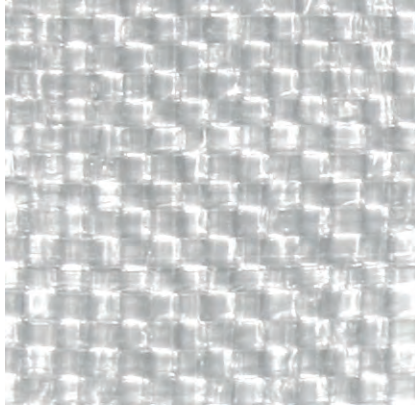


12oz clear poly curtain

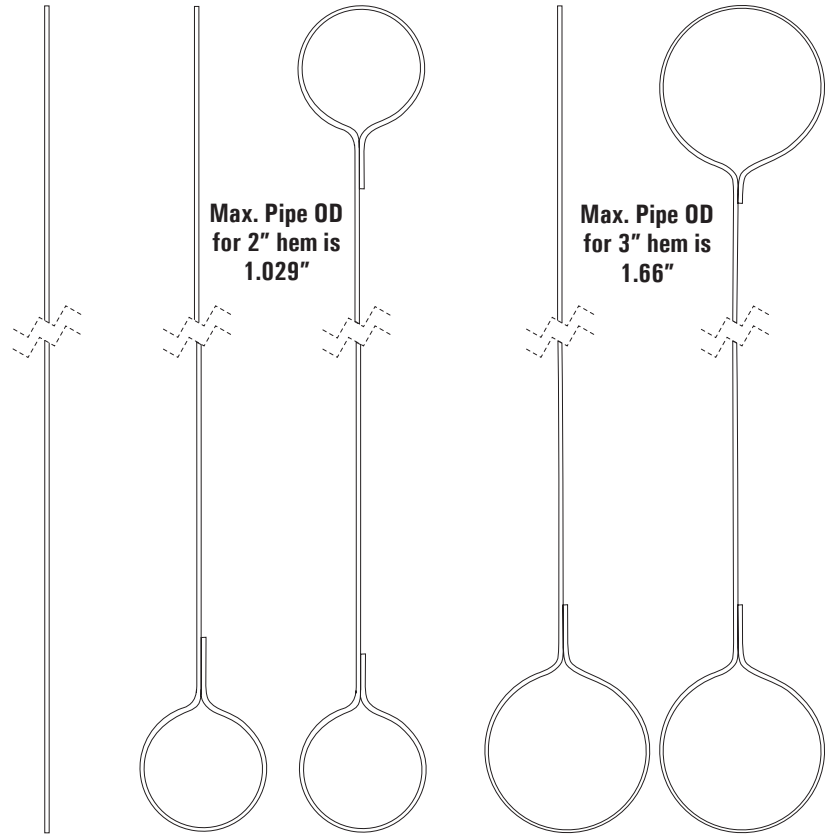
Replacement Curtain

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
Single 2" Hem		
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"
Double 2" Hem		
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

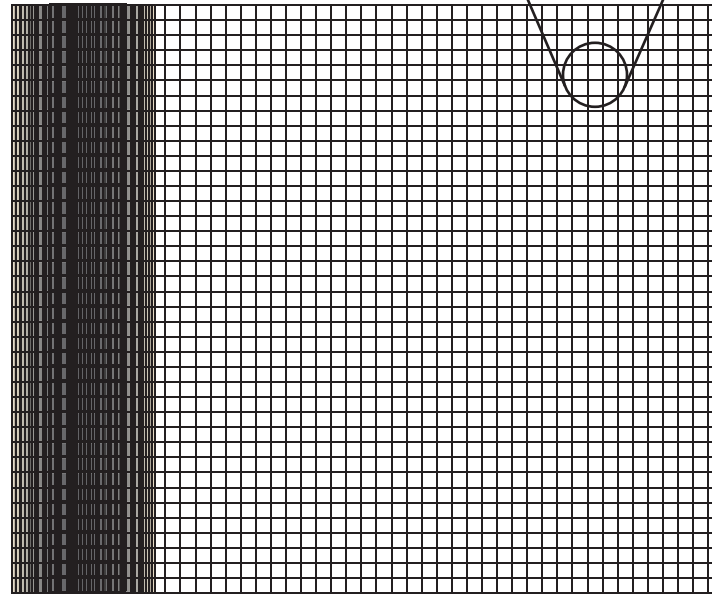
Part#	Description	Finished Size
Single 3" Hem		
CPP1236S3	36" Large 3" Single Hem	31"
CPP1248S3	48" Large 3" Single Hem	43"
CPP1260S3	60" Large 3" Single Hem	55"
CPP1272S3	72" Large 3" Single Hem	67"
CPP1284S3	84" Large 3" Single Hem	79"
CPP1296S3	96" Large 3" Single Hem	91"
CPP12108S3	108" Large 3" Single Hem	103"
CPP12120S3	120" Large 3" Single Hem	115"
CPP12132S3	132" Large 3" Single Hem	127"
CPP12144S3	144" Large 3" Single Hem	139"
Double 3" Hem		
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



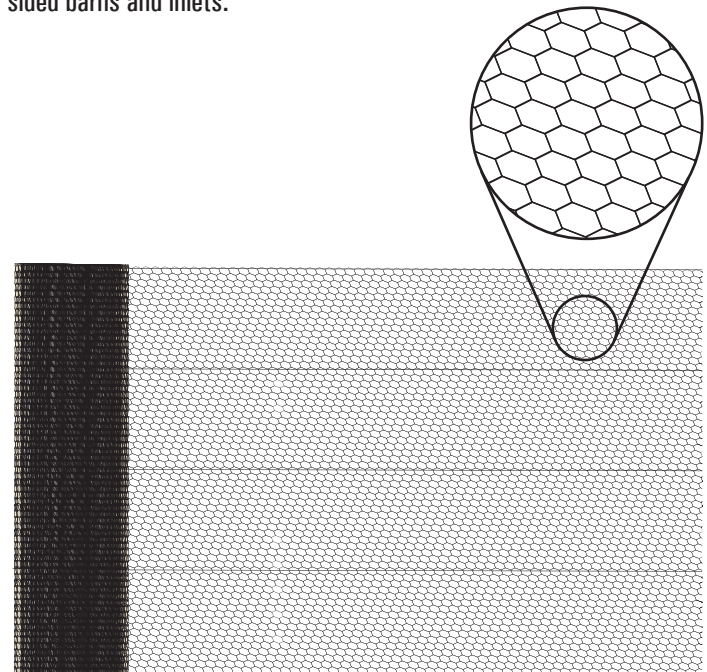
Part#	Description
PN6010022PVC	60" Wire Mesh, 2"x2" Square, PVC Coated, 100' Roll
PN7210022PVC	72" Wire Mesh, 2"x2" Square, PVC Coated, 100' Roll

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.

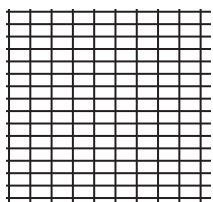
Features

- 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‡, 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

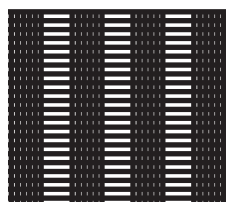
See *Curtain System* section for the complete line of accessory items.



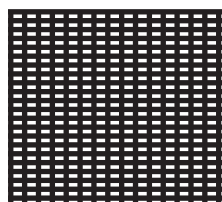
30% Shade



‡78% Lath Shade



80% Shade

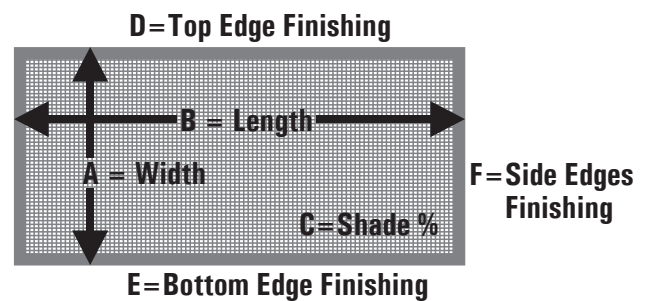


‡ Lath shade cloth features alternating bands of dense 100% shade cloth with open bands that let air pass through for an overall shading factor of 78% yet is generally cooler than comparable densities.

How to Order:

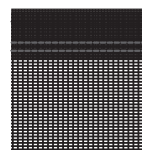
- A = Finished Size Width: – 6', 10', 12' or 15'
- B = Finished Size Length: – Per foot increment
- C = Shade Percentage: – 30, 47, 55, 63, 73, 78‡, 80, 95, 100%
- D = Top Edge Finish:
- E = Bottom Edge Finish:
- F = Side Edges Finish:
- Select a 3 character code from the Edge Finishing Options box below

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



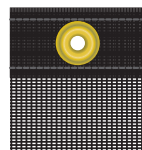
Edge Finishing Options:

- 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

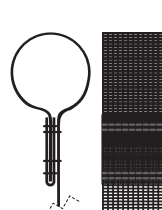
Double stitched standard reinforced tape edge



Grommet Edge

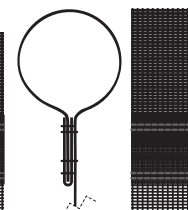
Double stitched extra wide reinforced tape edge and #2 grommets (5/16" hole)

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.

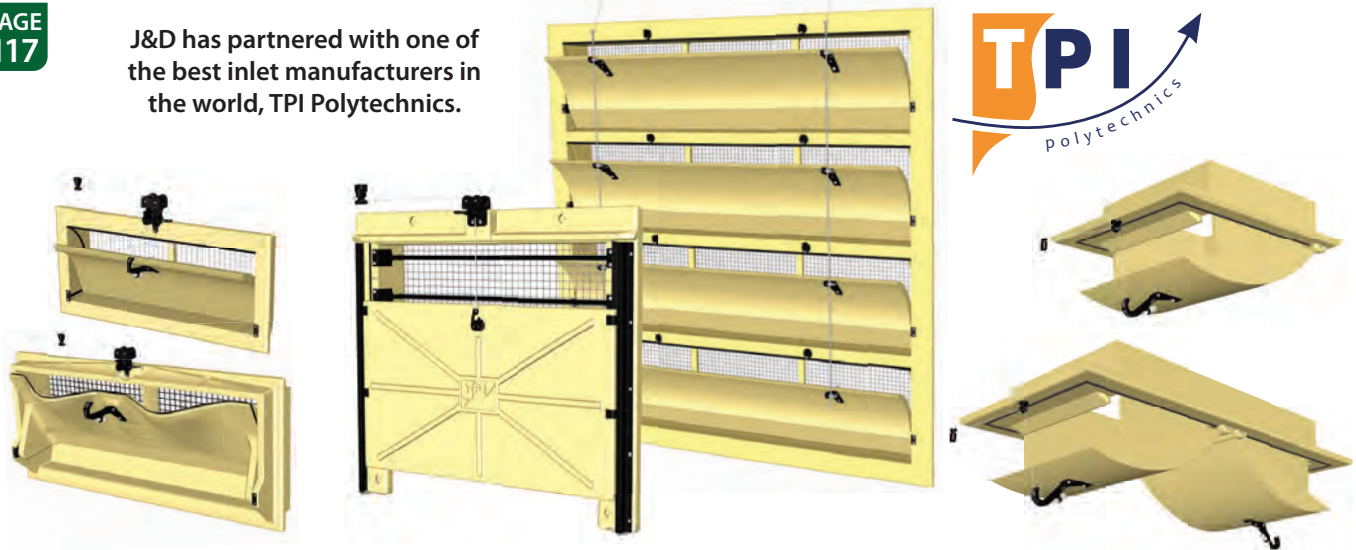
Barn inlets are essential components of a well-designed ventilation system for livestock facilities. By allowing fresh air intake, regulating temperature, and maintaining air quality, inlets contribute to the overall health, comfort, and productivity of the animals. Proper sizing and strategic placement 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 system integrator status 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 offer these top-of-the-line inlets to our product line.

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



TPI WALL AND CEILING INLETS

PAGE
132



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.

PAGE
124



ACTUATED, HEAVY-DUTY SHUTTER

Corrosion-resistant aluminum shutter and frame with incredibly strong linear actuator that can open shutter even in strong headwinds and when shutter has ice and snow buildup

INLETS

TPI Insulated Wall Inlets



J&D has 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

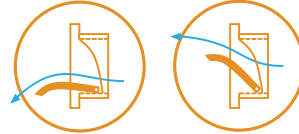
- Very lightweight
 - Easy installation
 - Reduced transportation cost
- Unique formula provides smooth and strong outer skin
- Insulating
 - Minimizes formation of condensation on the inlet
 - Its low temperature transference minimizes the effects of outdoor temperatures when closed
- Durable, does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

Louvers

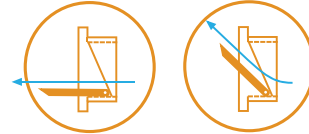
- Each model specifically designed to aim and project air differently to fit different ventilation needs
- Made from insulating polyurethane foam
- Smooth to minimize air resistance and for easy cleaning

Uni-Directional Insulated Wall Air Inlets

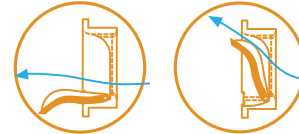
TPI-3000-VFBG-C Air Inlet



TPI-3000-VFBR-C Air Inlet

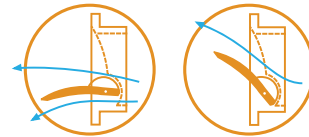


TPI-Ventum Air Inlet

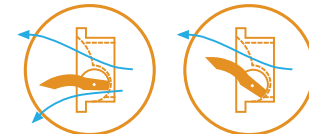


Bi-Directional Insulated Wall Inlets

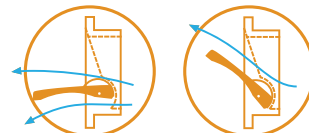
TPI-1800-VFG-C Air Inlet



TPI-3000-VFG-C Air Inlet



TPI-4000-VFG-C Air Inlet



TPI-Aeron Air Inlet



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/O-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



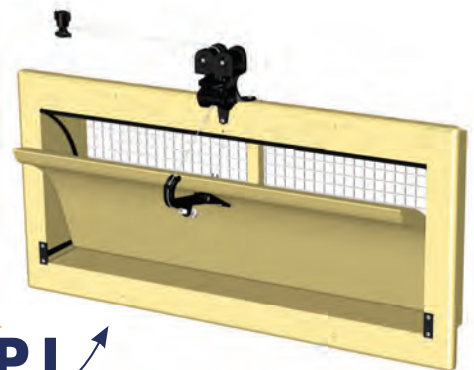
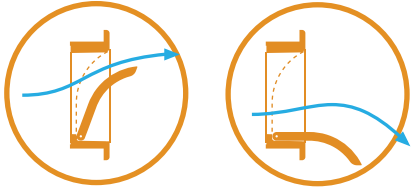
Air Guides

INLETS

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.

TPI Uni-Directional Insulated Wall Air Inlets

TPI-3000-VFBG-C Air Inlet

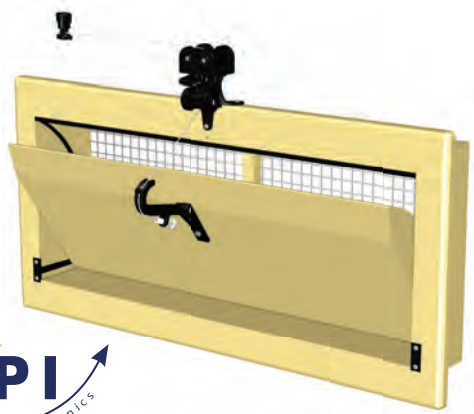
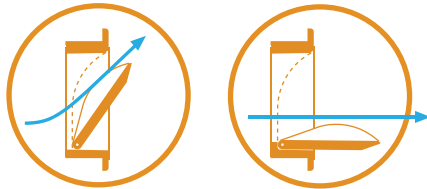


Part#	CFM @			m ³ /h			Force		Run	Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa	Nw			
TPI-3000-VFBG-C-Y	1,908	2,693	3,297	2,900	4,100	5,800	19.6	20.1"	Yellow	
TPI-3000-VFBG-C-B	1,908	2,693	3,297	2,900	4,100	5,800	19.6	20.1"	Black	
Accessories										
TPI-951	Weather Hood, Black, fits TPI-3000 Series 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

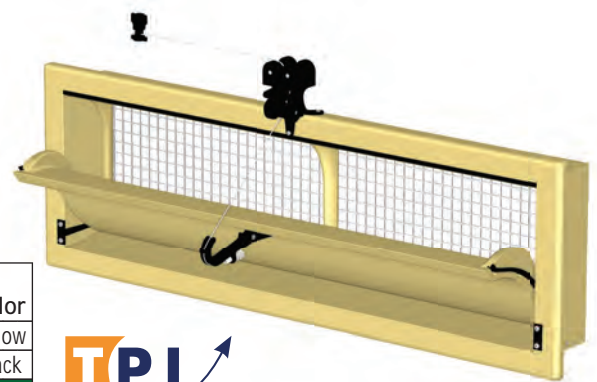
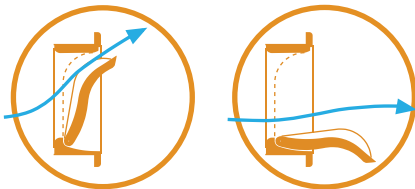


Part#	CFM @			m ³ /h			Force		Run	Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa	Nw			
TPI-3000-VFBR-C-Y	1,908	2,693	3,297	2,900	4,100	5,800	19.6	16.1"	Yellow	
TPI-3000-VFBR-C-B	1,908	2,693	3,297	2,900	4,100	5,800	19.6	16.1"	Black	
Accessories										
TPI-951	Weather Hood, Black, fits TPI-3000 Series 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 @			m ³ /h			Force		Run	Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa	Nw			
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	
Accessories										
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

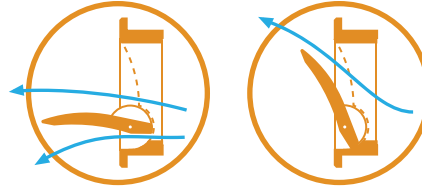
INLETS

⚠ 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.

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



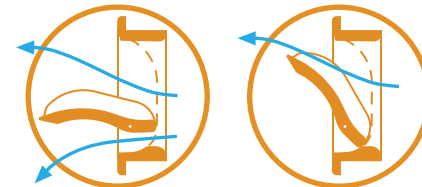
Part#	CFM @			m ³ /h			Force		Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa	Nw	Run	
TPI-1800-VFG-C-Y	1,184	1,773	2,046	1,800	2,700	3,600	14.7	18.5"	Yellow
TPI-1800-VFG-C-B	1,184	1,773	2,046	1,800	2,700	3,600	14.7	18.5"	Black
Accessories									
TPI-954	Weather Hood, TPI-1800-VFG-C Series of Inlets								
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



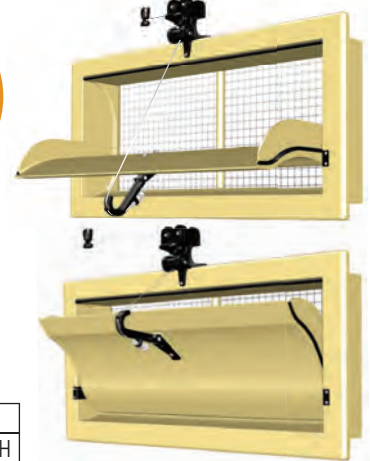
TPI-3000-VFG-C Air Inlet



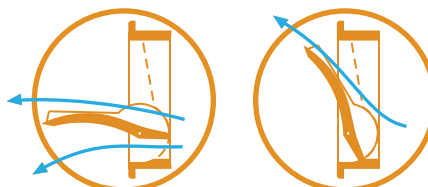
Part#	CFM @			m ³ /h			Force		Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa	Nw	Run	
TPI-3000-VFG-C-Y	1,908	2,693	3,297	2,900	4,100	5,800	19.6	16.9"	Yellow
TPI-3000-VFG-C-B	1,908	2,693	3,297	2,900	4,100	5,800	19.6	16.9"	Black
Accessories									
TPI-951	Weather Hood, Black, fits TPI-3000 Series of 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



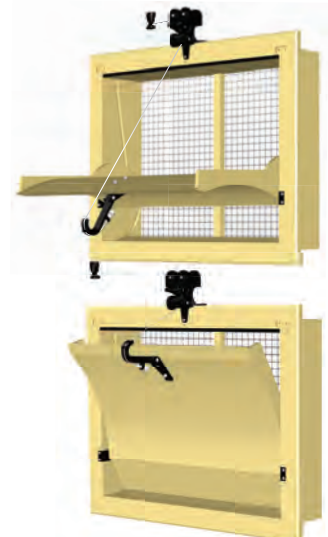
TPI-4000-VFG-C Air Inlet



Part#	CFM @			m ³ /h			Force		Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa	Nw	Run	
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
Accessories									
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								

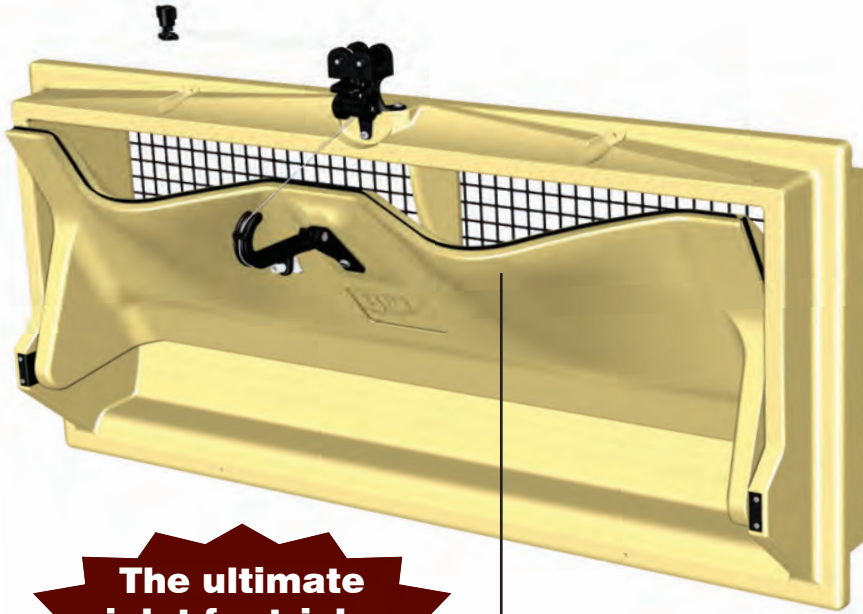


Rough Opening
28.35" W x 22.44" H



⚠ 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.

TPI-Aeron Bi-Directional Insulated Wall Inlet



The ultimate inlet for tricky winter ventilation

Curved Louver

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.

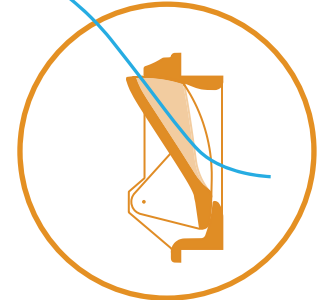
This inlets offers unprecedented control over the full range of minimum, transition, and maximum ventilation.

**Low Capacity
High Accuracy
Large Throw**

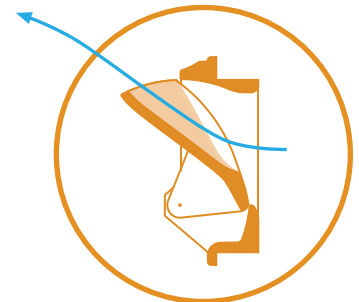
- Provides control over the air speed, direction, and volume in every ventilation stage

- 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

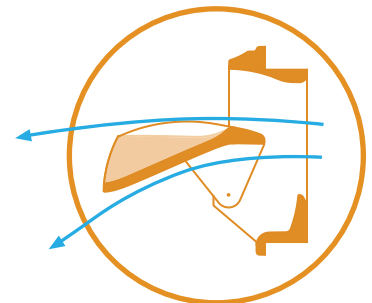
Minimum



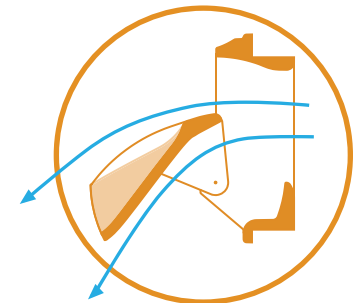
Medium



Over 30%



Maximum



Part#	CFM @			m ³ /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
Accessories									
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								



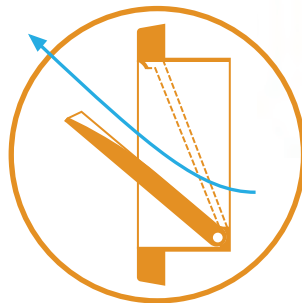
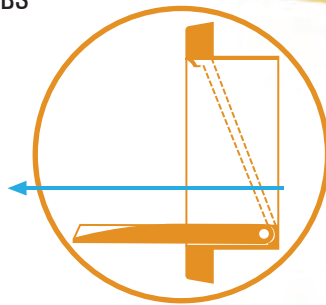
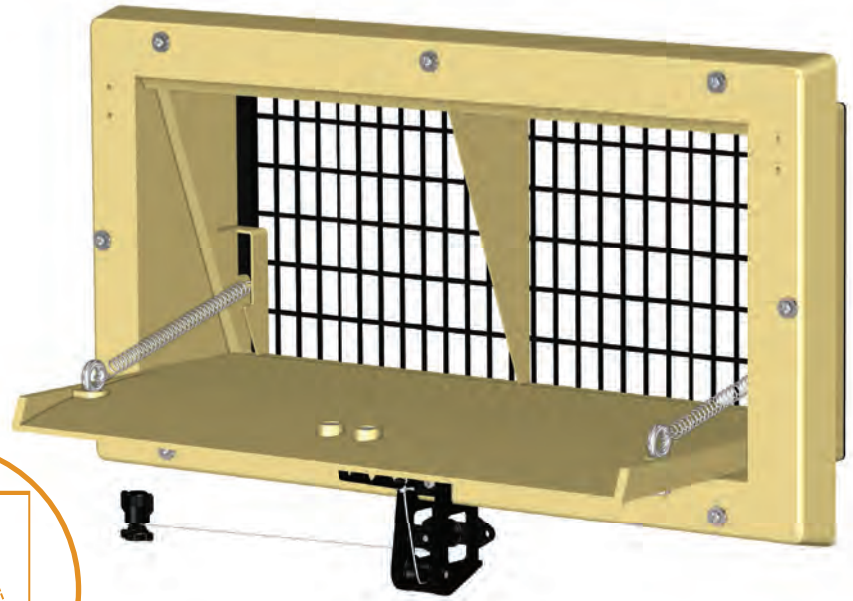
Rough Opening
40.55" W x 16.93" H

⚠ 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.

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 for better airflow control
- Made out of UV-stabilized ABS
- Spring closed



INLETS

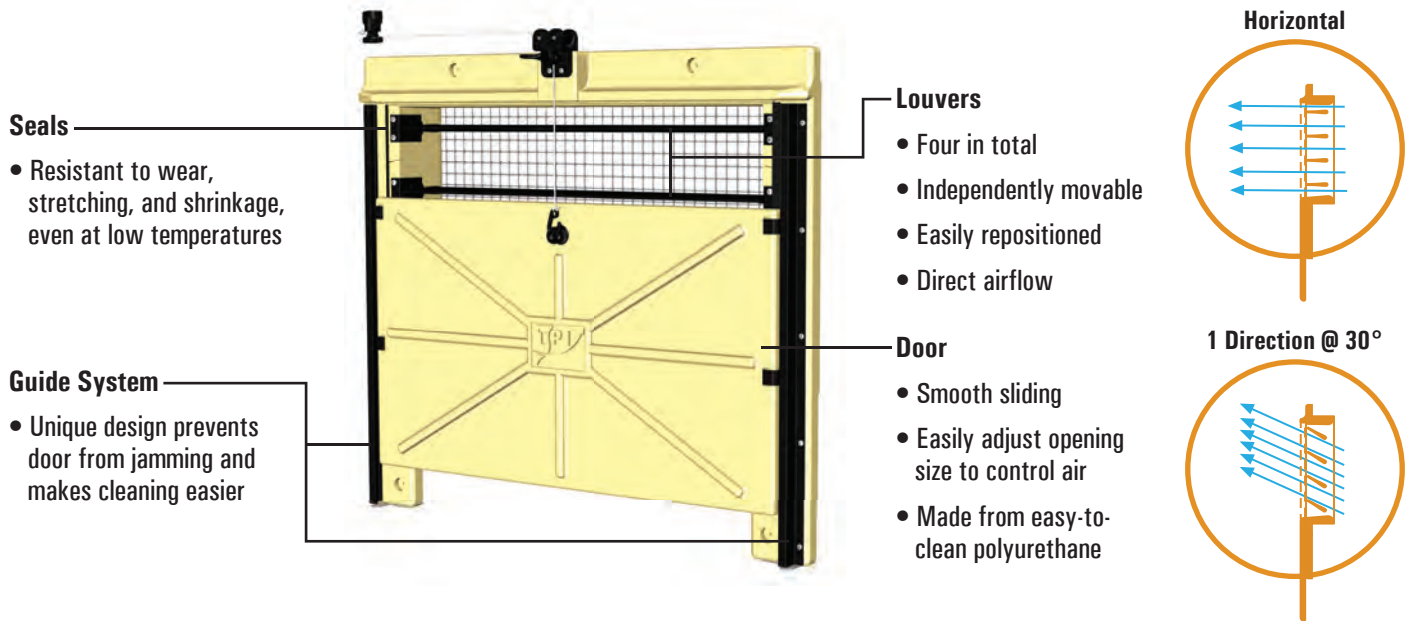
Part#	CFM @			m ³ /h			Force Nw	Run	Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa			
TPI-2000-PBR-C-Y	1,184	1,642	2,046	1,800	2,500	3,600	88.3	7.9"	Yellow
Accessories									
TPI-950	Weather Hood, fits TPI-2000-PBR-C-Y Wall Inlet								
TPI-901	Bracket Set, Quick Mount for TPI-950 Weather Hood								
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.

TPI-Omniflux Insulated Air Inlet



Seals

- Resistant to wear, stretching, and shrinkage, even at low temperatures

Guide System

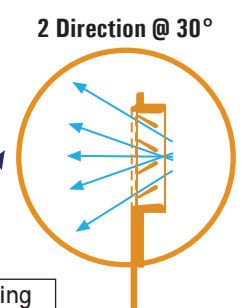
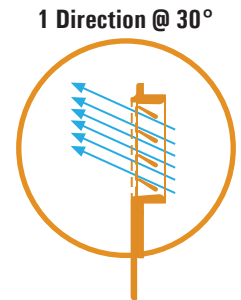
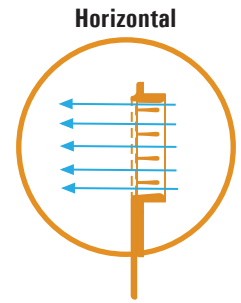
- Unique design prevents door from jamming and makes cleaning easier

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



Part#	Louver Orientation	CFM @			m ³ /h			Force		Color
		.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa	Nw	Run	
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

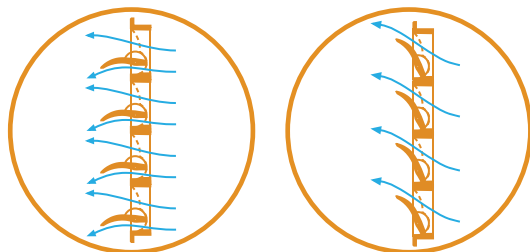
TPI-952	Weather Hood, Black, fits TPI-OMNIFLUX Series of Wall Inlets
TPI-903	Bracket Set, Quick Mount for TPI-952 Weather Hood
TPI-919-TR	Light Trap, for TPI-952 Weather Hood



Rough Opening
30.71" W x 19.29" H

INLETS

TPI-6000-VFG-4-C Insulated Tunnel Unit



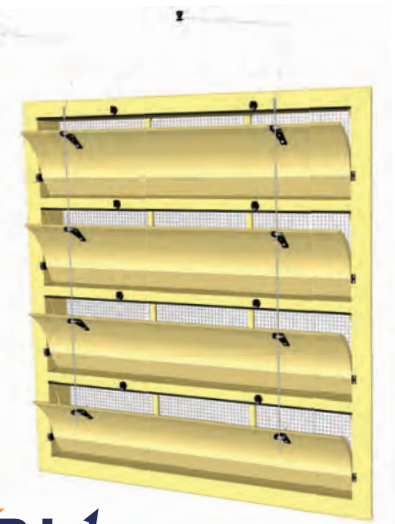
Part#	CFM @			m ³ /h			Force		Color
	.05" SP	.10" SP	.15" SP	10 Pa	20 Pa	40 Pa	Nw	Run	
TPI-6000-VFG-4-C-Y	15,267	22,986	26,372	23,200	35,000	46,400	137.3	15.7"	Yellow
TPI-6000-VFG-4-C-B	15,267	22,986	26,372	23,200	35,000	46,400	137.3	15.7"	Black

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.

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

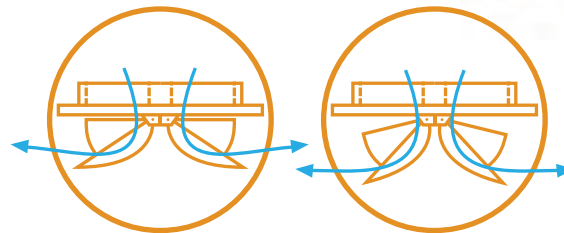
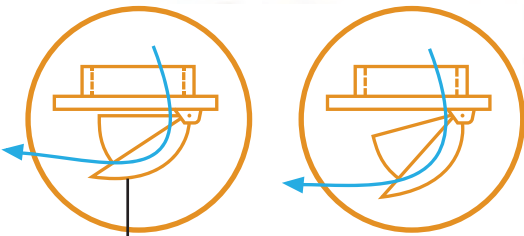
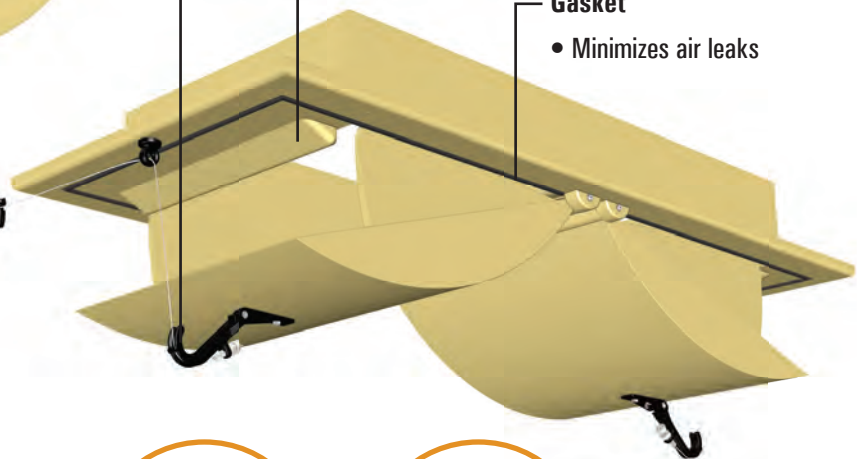
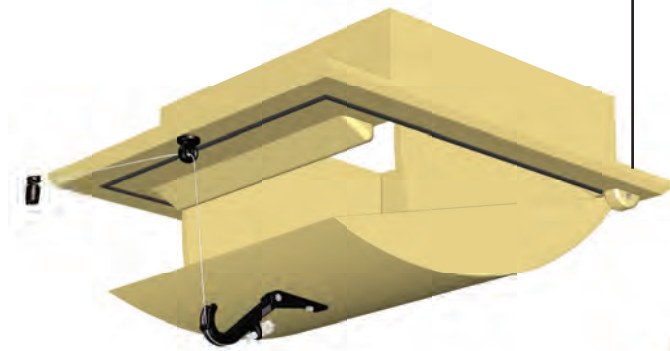
- Protects the inlet doors from cord wear by extending the cord beyond the edge of the inlet door
- Moves the pressure point from the edge of the inlet door to a more centralized location on the inlet door for a more even distribution of force, creating an even engagement with the gasket when closed
- 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 @			m ³ /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									



⚠ 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.

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.

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
- Nylon bushings and solid shafts for smooth performance
- Frame comes with pre-drilled mounting holes to save installation time
- Corners are precision milled and welded for durability
- Interlocking louvers for maximum weather seal
- 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"

Features

- Durable PVC framework with poly welded corners and galvanized corner braces
- Louvers are slightly curved to create a tight seal when closed



*Actual inlet size excluding mounting flange

⚠ 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.

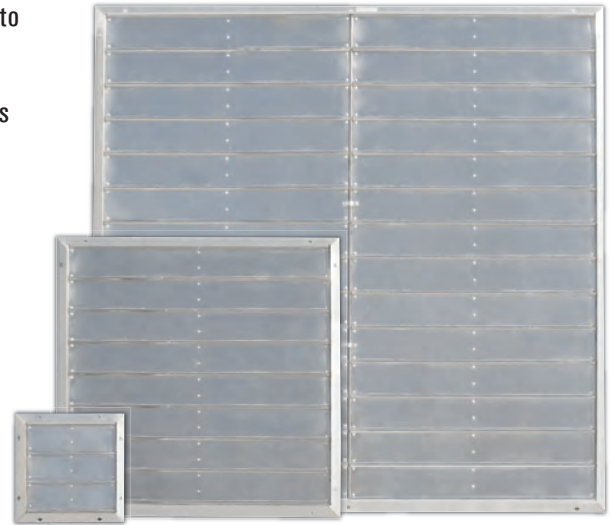
INLETS

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

*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
Shutter Motors	
VRSM10	Motor, 115/230V
VRSM10-C	Motor, Wired for 115V, with 10' Cord
Shutter Motor Kits (Motor & Hardware)	
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

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.

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

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

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



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.

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



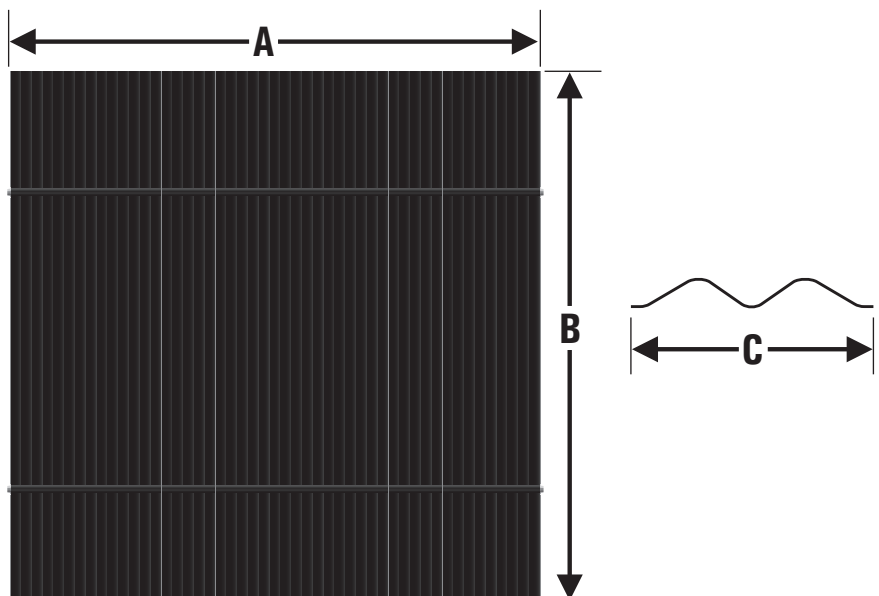
PVC slats

- 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
Assembled			
LT24x24	24"	24"	9"
LT36x36	36"	36"	9"
LT48x48	48"	48"	9"
LT60x60	60"	60"	9"
LT72x72	72"	72"	9"
Unassembled			
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

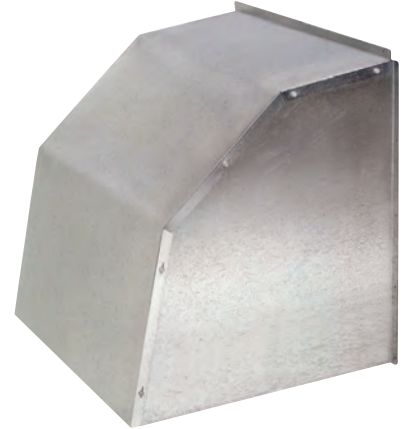
⚠ WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov/product.

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.

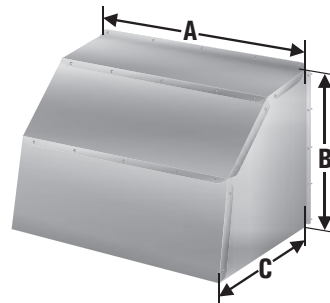
Features

- 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 ³ / ₄ "	13 ⁷ / ₈ "	11 ¹ / ₂ "
VFT140856	Weather Hood, for 16" Size Fans	18 ⁷ / ₈ "	20"	15 ¹ / ₂ "
VFT140857	Weather Hood, for 20" Size Fans	22 ³ / ₄ "	22 ¹ / ₂ "	19 ⁷ / ₈ "
VFT140858	Weather Hood, for 24" Size Fans	26 ⁷ / ₈ "	25 ⁷ / ₈ "	24"
VFT140859	Weather Hood, for 30" Size Fans	33"	25 ³ / ₄ "	23 ⁷ / ₈ "
VFT140860	Weather Hood, for 36" Size Fans	41 ³ / ₄ "	25 ³ / ₄ "	24 ¹ / ₄ "
VFT140861	Weather Hood, for 48" & 50" Size Fans	55 ³ / ₄ "	25 ³ / ₄ "	23 ³ / ₄ "
VFT140862	Weather Hood, for 54" Size Fans	55 ¹ / ₂ "	25 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.

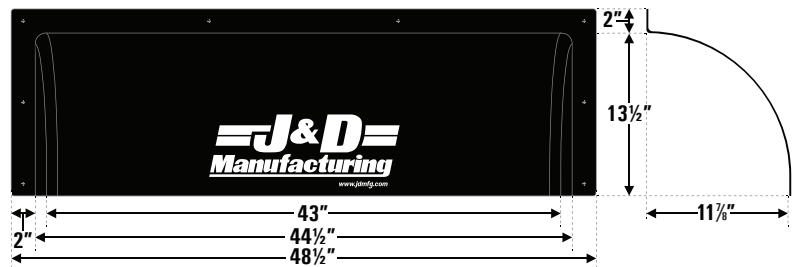
Features

- 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™
Accessories	
VFTP1344BBD	Bird Mesh, Poly Weather Hood, w/Hardware



⚠ 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.

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

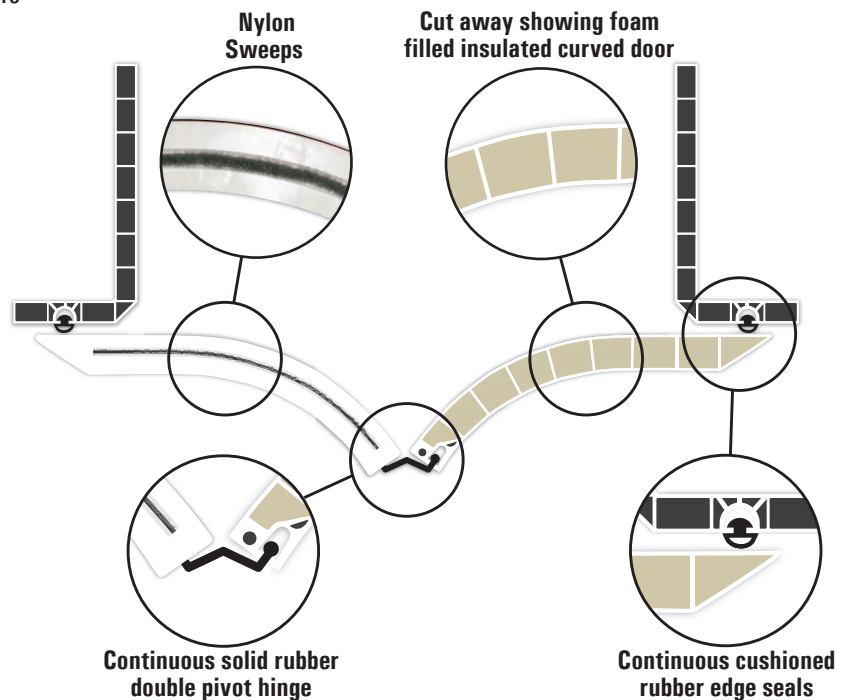


Features

- 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.



INLETS

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Pruden Adjustable Baffle Inlet

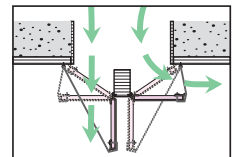
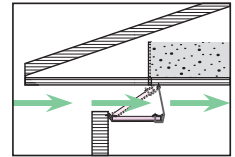
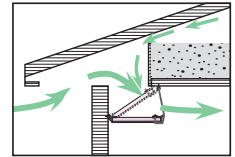
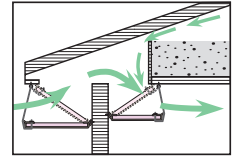
The Pruden Adjustable Baffle Inlet from J&D Manufacturing is an advanced air control system designed to draw fresh air from the attic during winter, and directly from the outside during the summer. Transform the J&D Baffle Inlet into an eaves closure system by placing the optional poly baffle insert 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
Baffle Inlets	
PFBAB88	Baffle Inlet, 8" Width, 8' Section
PFBAB128	Baffle Inlet, 12" Width, 8' Section
Optional Baffle Inserts	
PFBST	Baffle Stiffener, 8', 24 Gauge Galvanized
PFINS8A	Insert, Polyethylene, for 8" Baffle, 0.035" x 7 ³ / ₁₆ " x 96", w/UVI
PFINS12A	Insert, Polyethylene, for 12" Baffle, 0.035" x 11" x 96", w/UVI
End Stops	
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)

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



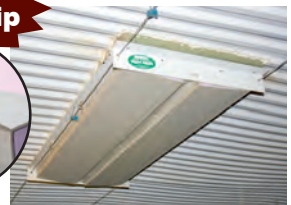
Pruden Actuated Ceiling Inlet

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.

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 3/16" 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

Part#	Rough Opening	CFM @.05	CFM @.10	CFM @.12
Single-Stream Inlet with Hardware				
PFAI2150	8 1/4" W x 46" L	1,700	2,190	2,340
Dual-Stream Inlet with Hardware				
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



⚠ 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.

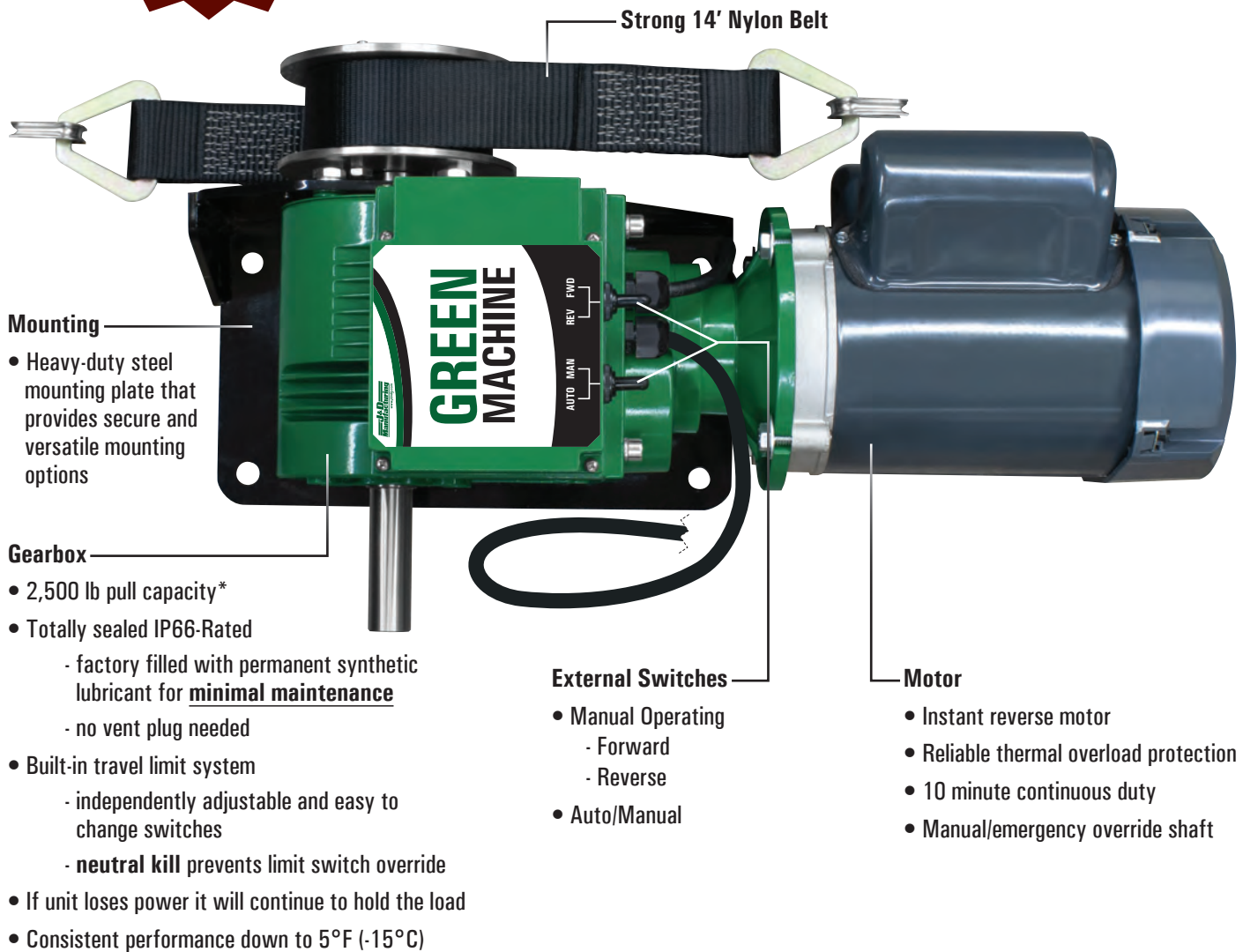
Green Machine for all your door, inlet, & curtain needs

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



Mounting

- Heavy-duty steel mounting plate that provides secure and versatile mounting options

Gearbox

- 2,500 lb pull capacity*
- Totally sealed IP66-Rated
 - factory filled with permanent synthetic lubricant for minimal maintenance
 - no vent plug needed
- Built-in travel limit system
 - independently adjustable and easy to change switches
 - **neutral kill** prevents limit switch override
- If unit loses power it will continue to hold the load
- Consistent performance down to 5°F (-15°C)

External Switches

- Manual Operating
 - Forward
 - Reverse
- Auto/Manual

Motor

- Instant reverse motor
- Reliable thermal overload protection
- 10 minute continuous duty
- Manual/emergency override shaft

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
Replacement Parts								
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 132



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.



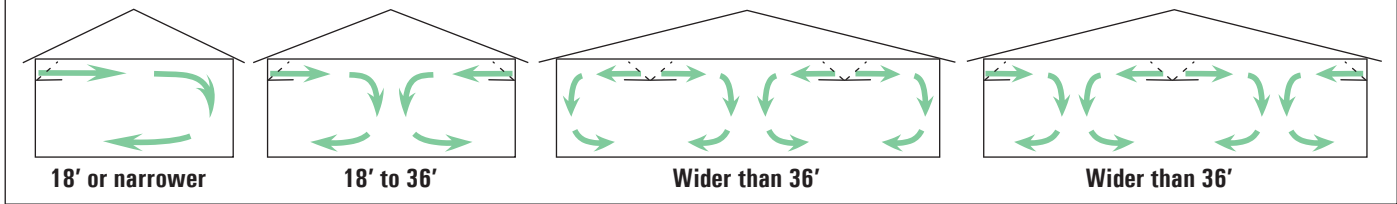
Part #	Volts	Hz	Description
Actuators			
PFACT115-24	115	50/60	Linear Actuator, 24" Stroke Travel, with Mounting Brackets
PFACT230-24	230	50/60	Linear Actuator, 24" Stroke Travel, with Mounting Brackets
Switching Center			
JDSC	115/230	N/A	Manual Switching Center with Relay

Contact J&D Manufacturing to determine actuator requirements per number of inlets.

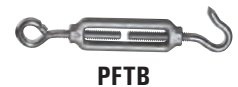
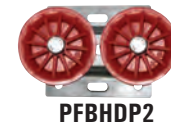
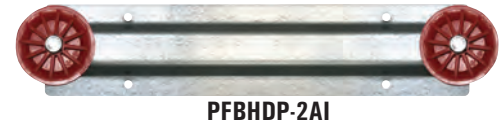
INLETS

Inlet Accessories & Kits

Recommended installations based upon building widths.



Part#	Description
Rod	
PFMBRSS-400	Rod, 1/8" 304 Stainless-Steel, Continuous Roll of 400'
Stainless-Steel Cable	
PFMBC3	Cable, 3/16" Stainless-Steel, 7 x 19, Sold Per Foot
RPSSC187X19	Cable, 1/8" Stainless-Steel, 7 x 19, Sold Per Foot
Pulleys & Guides	
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
Winch	
PFW2000	Winch, 2,000# Load Capacity
PFWB	Winch Bracket, Universal
Hardware	
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
Baffle Kits	
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)
PFBKSS	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 1/16" 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 7/16", 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 7/16" Diameter)



INLETS

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The Importance Of The Correct Setup

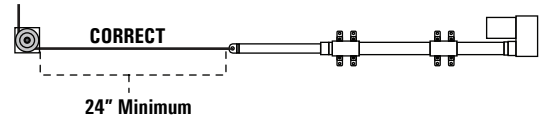
With inlets being your control of fresh air into your building, ensuring that they are dependably powered is of the utmost importance. Whether you are using a gearbox or an actuator, if your system is not correctly set up you will lose out on performance and longevity of your unit which can lead to even 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.

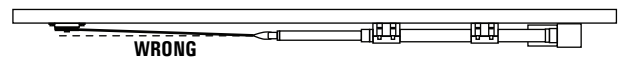
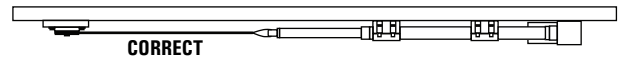
If your system is not correctly set up, you will lose out on performance and longevity of your unit.

Actuator

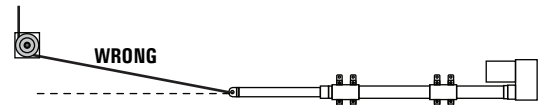
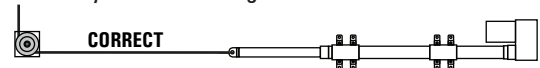
Pulley must be mounted a minimum of 24" from the end of the extended actuator arm.



Pulley track must align on the same plane with actuator arm.

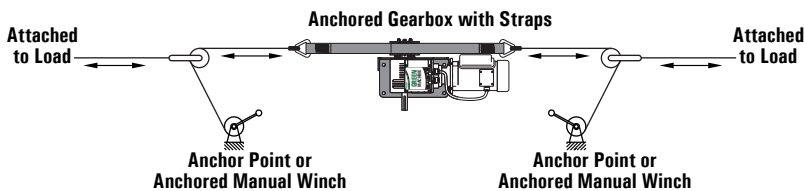


Pulley track must align with the actuator arm.



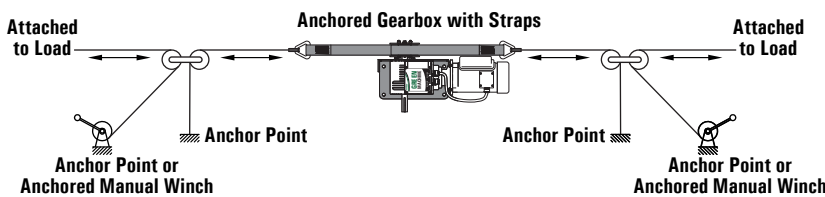
Gearbox

2:1 Ratio - Heavy Loads - Loads up to 2,000 lbs



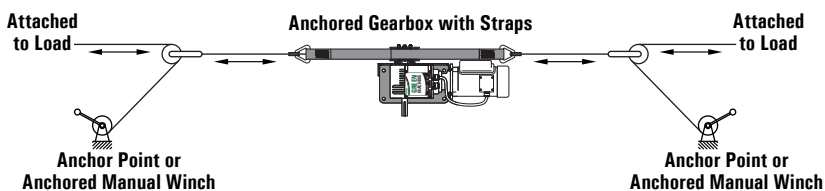
Using this configuration, the ratio of motor gearbox cable to load cable travel is 2:1. The motor gearbox only sees 1/2 of the actual load and the load cables travel at 1/2 speed. This configuration is good for heavy loads.

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 1/2 the load, it doubles the load on the motor gearbox and compromises the accuracy of the open and close stop positions.

INLETS

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.

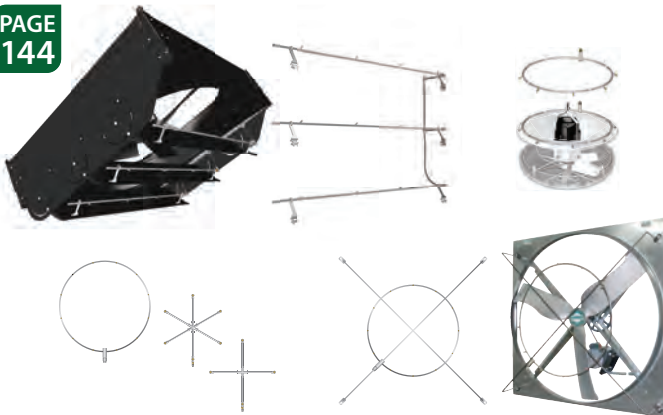
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Smart Products with Smart Benefits – MicroCool's fogging systems use sensors to track humidity, saturation, and temperature.



MICROCOOL - SMART HIGH PRESSURE FOGGING SYSTEMS

PAGE 144



HPF KITS

Increase your cooling with easy-to-install kits. Specialized kits for AirBlaster, Panel Fans, JD360, and basket fans.

PAGE 149



HPF PORTABLE PUMPS

Bring the cool to the pool, balcony, greenhouse, horse barn, or work area.

MicroCool Smart High Pressure Fogging Systems

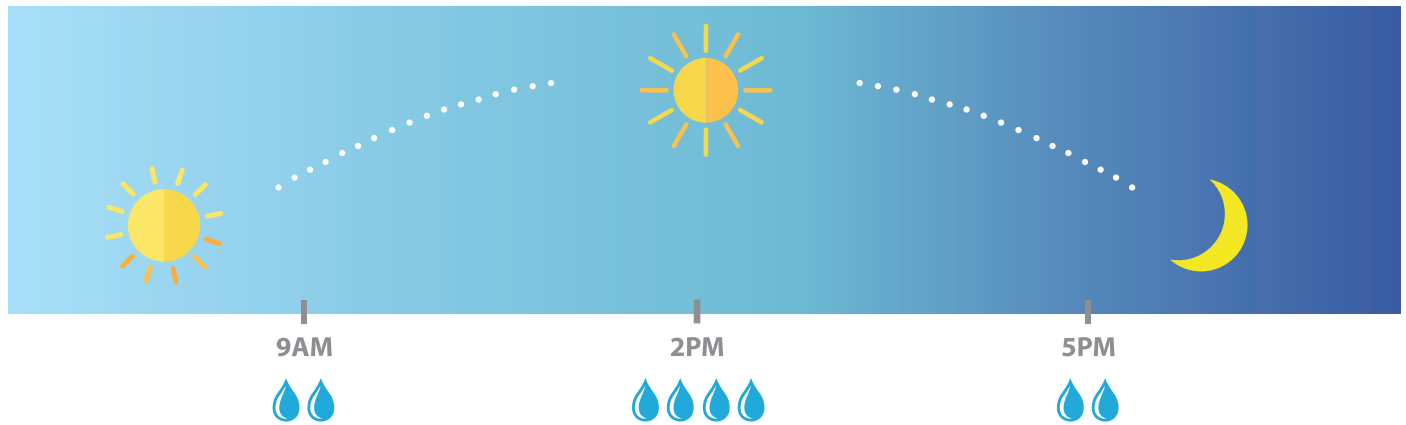
J&D Manufacturing has partnered with MicroCool, a leading provider of fogging systems. MicroCool has over 40 years of experience with fogging, which aligns perfectly with J&D's 40+ years of experience in ventilation and animal comfort. The greatest benefit of partnering with MicroCool is giving access 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

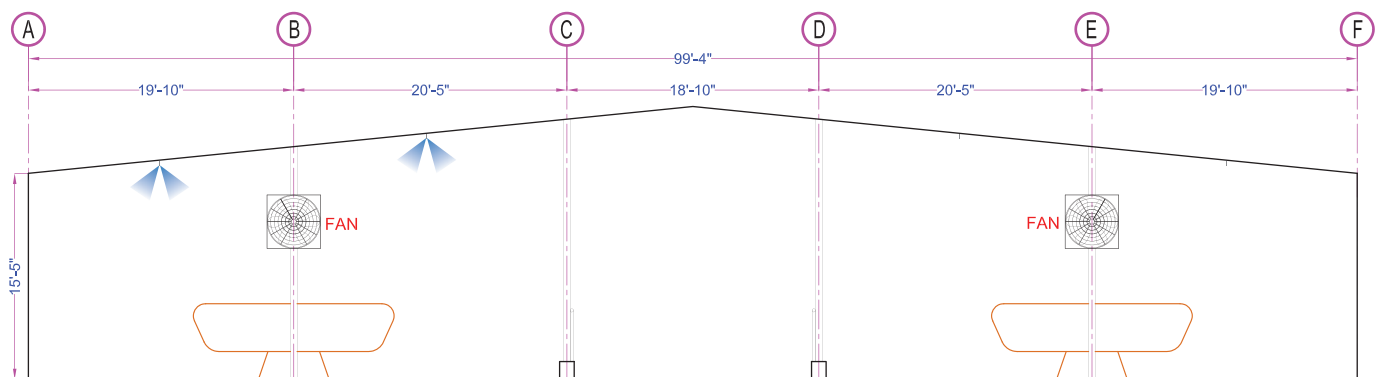
Smart Products with Smart Benefits – MicroCool's fogging systems use sensors to track humidity, saturation, and temperature.

- **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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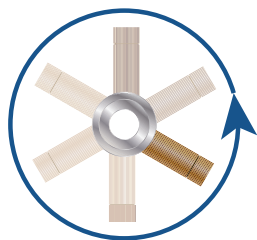
MicroCool Smart High Pressure Fogging Systems

Another cool thing about MicroCool Smart High Pressure Fogging Systems are the patented ROCs (Rapid Orientation Collars)

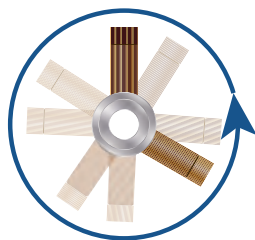
MicroCool's integrated ROC nozzle and stainless-steel or flex line system offers the ultimate in strength and flexibility. The patented ROC (Rapid Orientation Collar) allows nozzle adjustments with little or no effort while the lightweight yet robust steel line handles the most demanding of installations.

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.

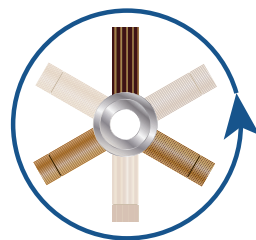
The system can be configured with 1, 2, or 3 nozzles mounted on the collar depending on the application.



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.

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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± 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 ^{NP} 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"	¼	115	2.65 0.06	60	1	3	915	3.21	12.0	.267	1,088	3,950	14.8	Direct	3-Alm	10'	4	C0836
								790	2.30	12.0	.191	874	3,340	17.5					
								705	1.68	10.6	.158	774	2,850	18.0					
VPC30-POWOSC	30"	¼	115	2.65 0.06	60	1	3	760	3.30	11.1	.297	1,055	5,010	16.9	Direct	3-Alm	10'	4	C0835
								585	1.76	9.0	.196	751	3,670	18.7					
								475	1.20	7.8	.154	620	3,030	19.7					

^{NP} 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

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.

Misting is ideal in low humidity locations. Easily attach crosses or loops to your basket fans.



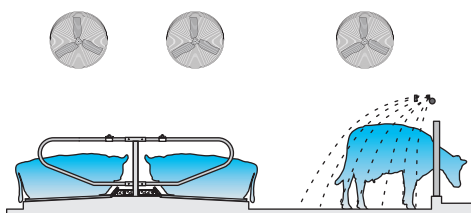
Soakers

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.



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.

Soaking System

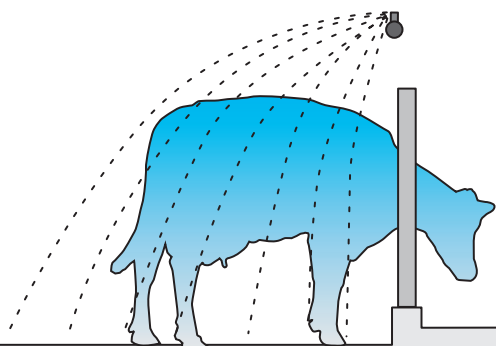
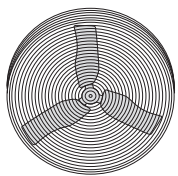
When the temperature-humidity index is above 68°F, livestock will experience heat stress. During heat stress, respiration rates increase, while milk production and reproduction decrease. One option to control heat stress is to install a soaker system over the feed line, parlor (enter and exit lanes) 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.

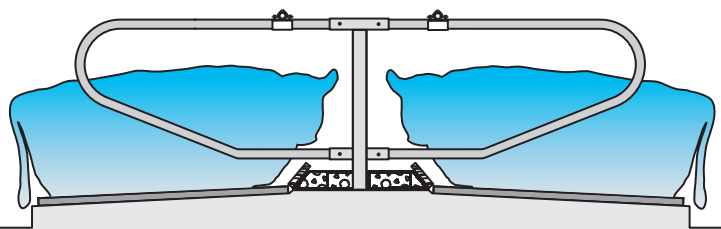
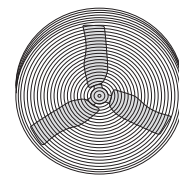
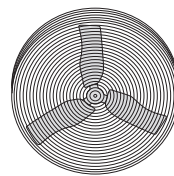
Features

- 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.



⚠ 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.

Soaking System

Part#	Description
Components for 100' System	
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
Components for 200' System	
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
Components for 500' System	
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

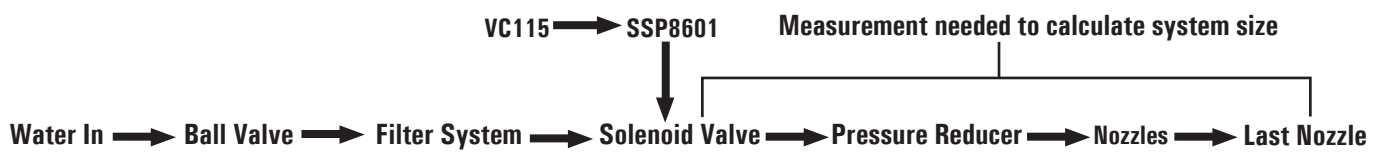


Cycle Timer

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

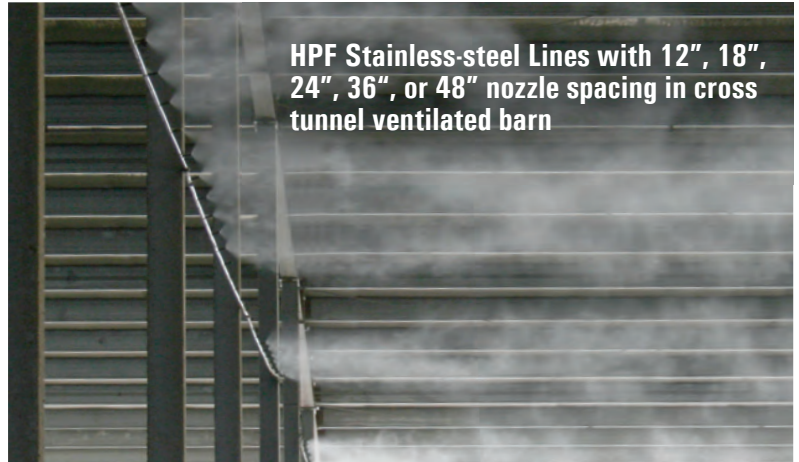


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High Pressure Fogging System

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.



HPF Stainless-steel Lines with 12", 18", 24", 36", or 48" nozzle spacing in cross tunnel ventilated barn

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

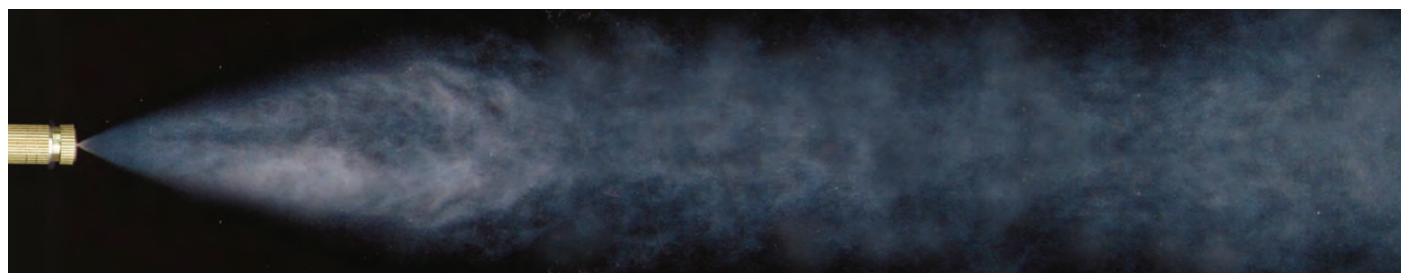


HPF Stainless-steel Panel Fan Ring Kit with 12 nozzles

Standard systems offer a choice of 1, 2, 3, 5, or 10 HP motors



For the best performing system contact your J&D representative for design assistance.



⚠️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.

HIGH PRESSURE FOG & COOLING

Choose a Delivery System

HPF Stainless-Steel Lines

Part#	Description
Lines with 0.015 GPM Nozzles and Couplers	
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
Lines with 0.039 GPM Nozzles and Couplers	
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
Solid Line with Couplers	
VHPR2000	Pipe, ½" Stainless-steel 20' (No Nozzles)

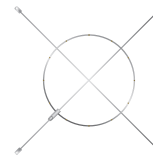


Features

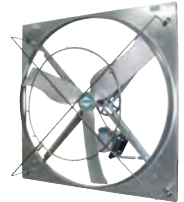
- Standard lines are 20' long for easy and quick installation
- Made of corrosion-resistant ½" 304 stainless-steel pipe
- Each line end is fitted with a ½" brass female flare swivel nut with o-ring
(Additional fittings are required to assemble system)
- Lines come with 0.015 GPM or 0.039 GPM anti-drip 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
Accessories	
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

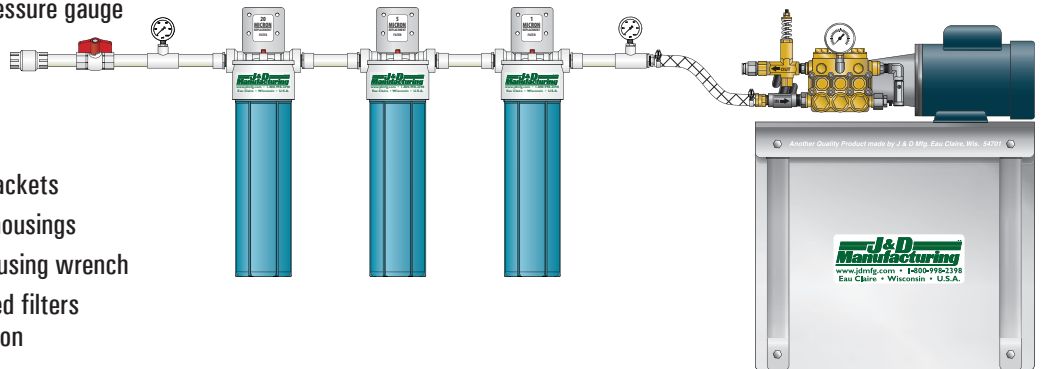
Part#	GPM	HP	Volts*	Hz	Amps	Maximum # of Nozzles		
						0.015	0.039	0.045
2.5" Filter Kits								
VHP1325	1.3	1	230/460	60	3.8/1.9	87	33	29
VHP2325	3.0	2	230/460	60	5.8/2.9	200	77	67
VHP3325	4.1	3	230/460	60	8.2/4.1	273	105	91
VHP5325	5.7	5	230/460	60	13/6.5	380	146	127
VHP10325	10.2	10	230/460	60	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 warranted 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
 - Filter brackets
 - 3 filter housings
 - Filter housing wrench
 - 1 each of the following pleated filters
20 Micron - 5 Micron - 1 Micron



* 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.

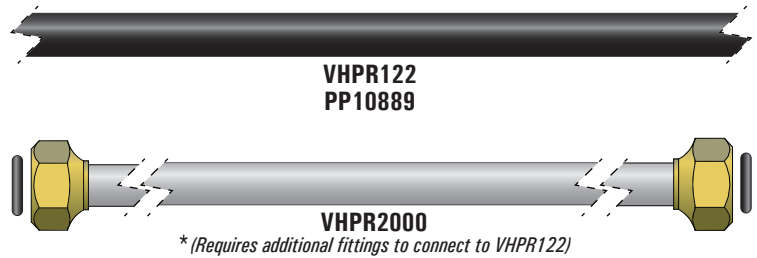
Test	Required Parameters
Hardness	Less than 7gpg (120 parts per million or milligrams per liter)
PH	7.0 or higher
Dissolved Metals	Listed are the most common and problematic. <i>Consult with your water specialist on what additional dissolved metals you may need to correct.</i> <u>Iron</u> - Less than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

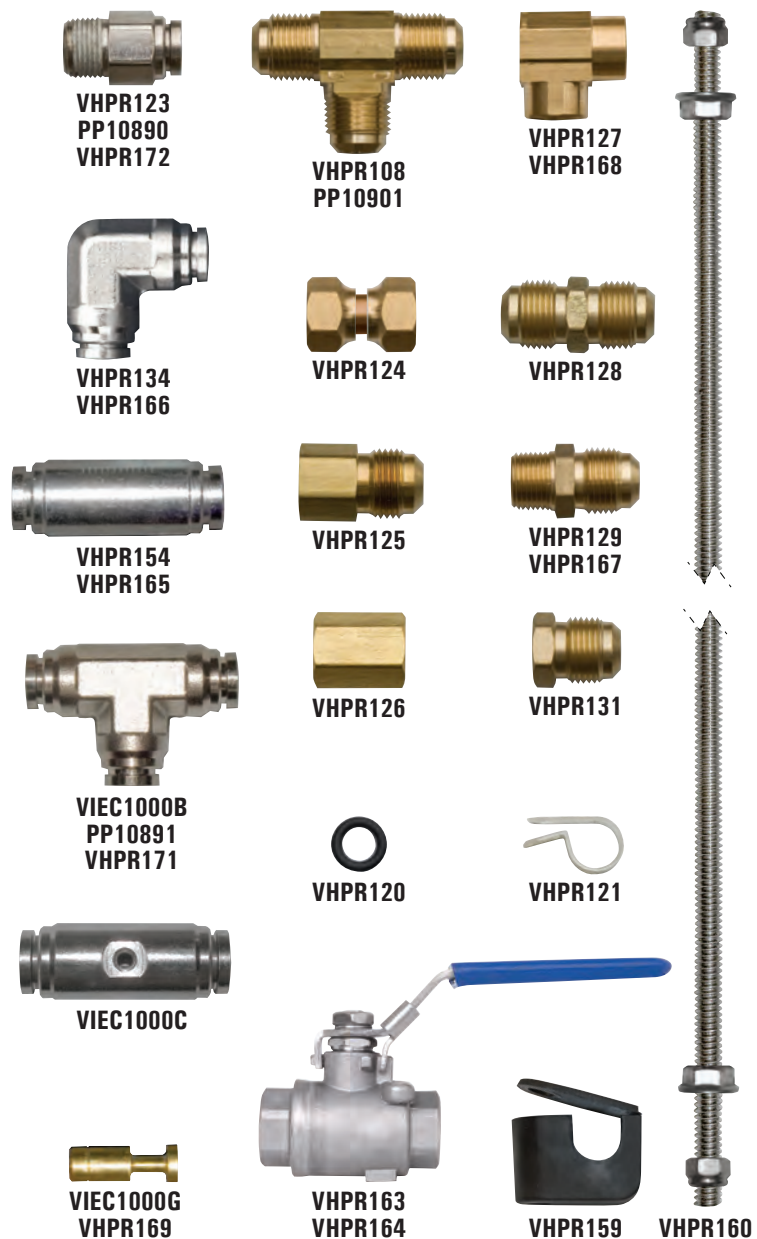
Part#	Description
Nylon Tubing	
VHPR122	Tubing, 3/8" OD High Pressure Nylon (per foot)
PP10889	Tubing, 1/2" OD High Pressure Nylon, 500' roll
Solid Line with Couplers	
VHPR2000	Pipe, 1/2" Stainless-steel 20' (No Nozzles)*
Kit	
VHPR162	Auto Drain Kit, HPF System (recommend 1 per system)
Fittings - Slip Lock	
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
Fittings - Threaded Brass	
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
Valve	
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
Pipe/Tube Mounting	
VHPR121	Strap, Nylon Loop to Secure Pipe or Nylon Tube
VHPR159	Mounting Clip, to Secure 1/2" OD Pipe (10 Pk)
VHPR160	Mounting Rod, 18", S.S., Compatible w/VHPR159
Nozzles	
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 (for end of line)
VHPR107	Nozzle, Plug, Brass (plug unwanted nozzle port)
Other	
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 | Length needed is determined by installation |
| (1) VHPR125 | (1) VIEC1000I | and distance to desired draining location. |



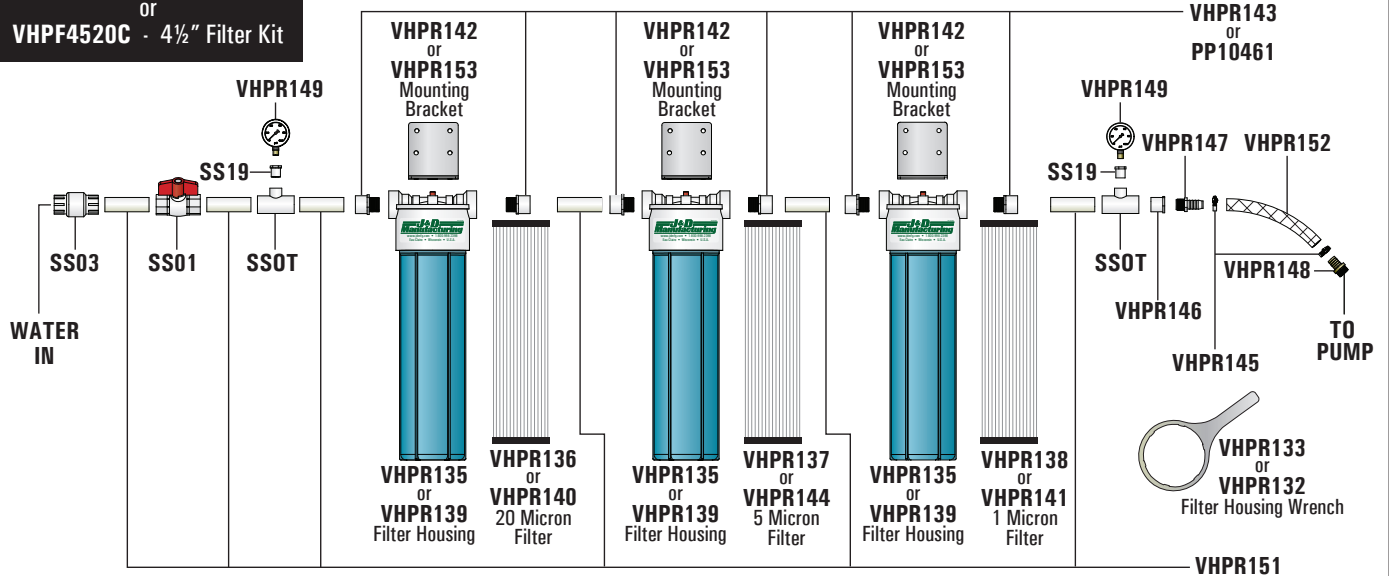
HIGH PRESSURE FOG & COOLING

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Basic Assembly of HPF System

Complete 3-Stage Filter Kits

VHPF2520C - 2½" Filter Kit
or
VHPF4520C - 4½" Filter Kit

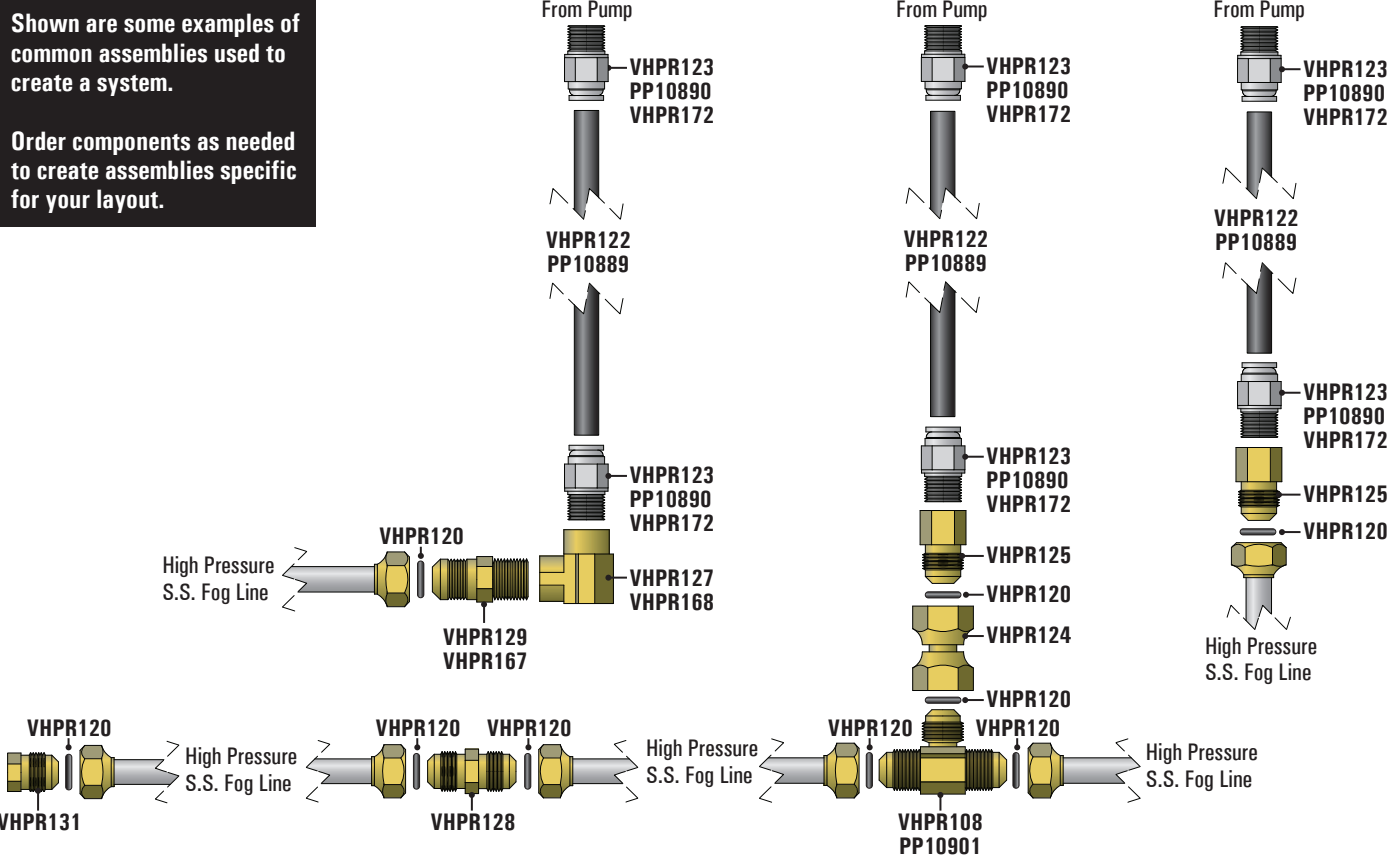


Each filter kit also includes: (1) VHPR123 adapter to connect the pump to the VHPR122 nylon tube
(1) PP10815 single use pouch of anti-seize lubricant to be used when assembling pump to motor
See installation manual for additional details.

Shown are some examples of common assemblies used to create a system.

Order components as needed to create assemblies specific for your layout.

HIGH PRESSURE FOG & COOLING



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Replacement Parts

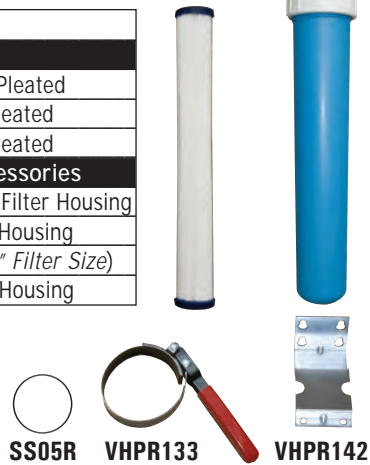
3 Stage Filter Kits

Part#	Description
2½" Filter Kits	
VHPF2520C	Complete* 3 Stage, 2½" Filter Kit, w/Fittings, Gauges & Filters
4½" Filter Kits	
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
2½" Replacement Filters	
VHPR136	Filter, 2½" x 20", 20 Micron, Pleated
VHPR137	Filter, 2½" x 20", 5 Micron, Pleated
VHPR138	Filter, 2½" x 20", 1 Micron, Pleated
Additional Replacement Parts & Accessories	
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

VHPR136
VHPR137
VHPR138



4½" Filters & Parts

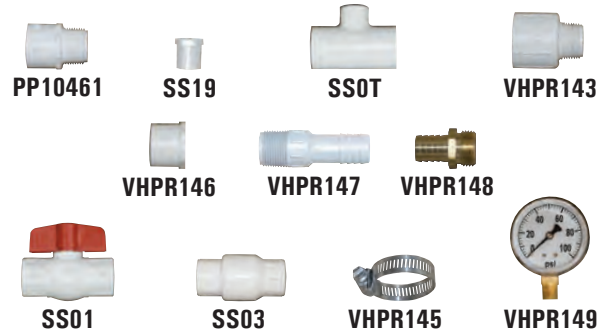
Part#	Description
4½" Replacement Filters	
VHPR140	Filter, 4½" x 20", 20 Micron, Pleated
VHPR144	Filter, 4½" x 20", 5 Micron, Pleated
VHPR141	Filter, 4½" x 20", 1 Micron, Pleated
Additional Replacement Parts & Accessories	
VHPR132	Wrench, for 4½" x 20" Filter Housing
VHPR139	Housing, for Filter (4½" x 20" Filter Size)
VHPR153	Bracket, for 4½" x 20" Filter Housing

VHPR140
VHPR141
VHPR144



Fittings & Accessories

Part#	Description
Fittings	
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
Accessories	
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

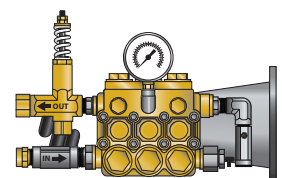


C-Face TEFC Motors

Part#	HP	Volts	Hz	Amp	Shaft
Single Phase					
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	1 1/8"
VHPM5A	5	230	60	20.2	1 1/8"
3 Phase					
VHPM13A	1	230/460	60	3.8/1.9	5/8"
VHPM33A	3	230/460	60	7.8/3.9	1 1/8"
VHPM53A	5	208-230/460	60	13.6-12.3/6.2	1 1/8"
VHPM103	10	230/460	60	13/6.5	1 3/8"

Pumps with Unloader

Part#	GPM	Hollow Shaft	HP
VHPP13	1.3	5/8"	1
VHPP30	3.0	5/8"	2
VHPP41	4.1	1 1/8"	3
VHPP57	5.7	1 1/8"	5
VHPP137A	10.2	24mm	10



⚠ 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.

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

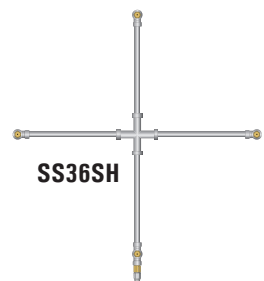


Pump Part#	GPM	HP	Volts	Hz	Amps	Dimensions	Weight
JD14241	0.15	1/4	110	60	1.38	17" x 10" x 9 1/2"	16 lbs
JD14242	0.3	1/4	110	60	2.15	17" x 10" x 9 1/2"	16 lbs
JD14122	0.5	1/2	110	60	5.8	26" x 12" x 13"	52 lbs
JD14124	1.0	1	110	60	9.2	26" x 12" x 13"	61 lbs
JD14126*	2.0	2	110	60	16.5	26" x 12" x 13"	76 lbs

Part#	Description
JD62200*	Smart Phone Pump Controller

* 2.0 GPM model not compatible with Smart Phone Pump Controller

Bring the cool to the pool, balcony, greenhouse, horse barn, or work area



JD14241	JD14242	JD14122	JD14124	JD14126	Part#	Description
0.15 GPM	0.3 GPM	0.5 GPM	1.0 GPM	2.0 GPM		
Min-Max	Min-Max	Min-Max	Min-Max	Min-Max		
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

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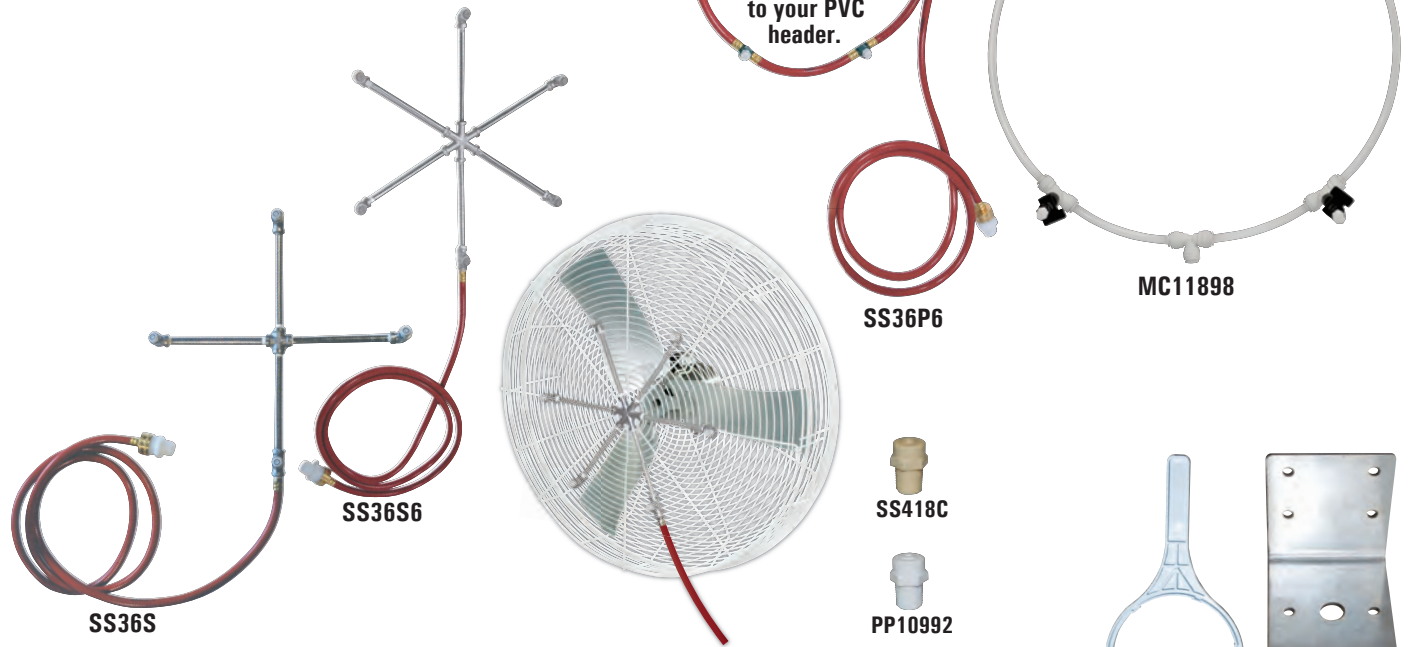
HIGH PRESSURE FOG & COOLING

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.

Poly Mist Kit comes pre-assembled from the factory. Simply strap the kit to the fan guard and attach the fitting to your PVC header.



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					

HIGH PRESSURE FOG & COOLING

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Evaporative Cooling for Greenhouses

Evaporative cooling is a natural process. We even see it in humans as we sweat. But it can also be utilized to naturally cool down your greenhouse. Learn more about evaporative cooling below.

How Evaporative Cooling Works

Evaporative pad and fan cooling systems use water-soaked cellulose pads that cool the outside air by evaporation as it is drawn through the pads by exhaust fans. Water is spread evenly over the top of the pads as a film to get uniform coverage. The excess water is collected in a trough at the bottom of the system to get recycled through again. A pump and valve add more water as needed. The pads are usually 1 foot wide by 4 or 6 inches thick with heights ranging from 2 to 6 feet. Custom sizes are available and systems can be stacked to get heights greater than 6 feet.

Evaporation of water is an endothermic reaction that consumes heat. It's why you feel cool when you get out of a swimming pool on a hot summer's day. These systems are also known as "Wet Walls" or "Swamp Coolers".

Cooling Possibilities

An evaporative cooling system can provide 10 – 25 degrees Fahrenheit worth of cooling, with the possibility of a few more degrees in hot, arid parts of the country. Air can only hold so much water, so humid areas will be on the lower end of that spectrum. These numbers are based on the hottest 5 days of the year for a given locality. A grower in Phoenix might see a cooling differential in the mid 20's when it's 110 degrees outside with low humidity. In parts of the country where humidity is typically high, a grower will not see as drastic of a temperature difference on hot/humid days. Sorry folks, it's physics!

Sizing Your System

To size a system, determine the cubic footage (not square footage!) of your greenhouse. Divide that number by 375 to get the square feet of 6" thick pads needed to cool your house. Divide by 250 for 4-inch pads. You also use the cubic footage number to determine what size and quantity of fan you will need. Usually, base the number of fans needed on one air change per minute. The total fan CFM should equal the number of cubic feet of the area you are trying to cool. Keep your house tight. An open door reduces the amount of air flowing through the pads creating an inefficiency within your system.

Best Practices

As with any piece of equipment, there are some best practices to maximize system performance. Including:

- Let your pads dry out once every 24 hours.
- Check the pads for dry spots. This usually means there is a clog in your spray pipe.
- Check with the pad manufacturer for approved chemical cleaners.
- A water pH level between 6 and 8 is recommended. Exceeding these limits will deplete the resin content of the cellulose and shorten pad life.
- Clean filters weekly and check the pump for debris.
- Completely flush the system every 4 to 6 weeks.
- Bleed off 3% to 5% of the water every day to avoid mineral build-up. The water evaporates, but minerals do not. They stay in the water and can build up on the pads, lowering the efficiency. They can also clog the emitter holes in your spray pipe.

Interested in learning more about evaporative cooling and how it can be beneficial for your greenhouse? Check out our product line and contact us! We'd be happy to discuss a system that will work for you.

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.

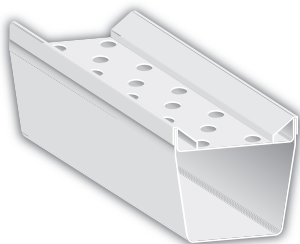
Features

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
Single Layer Header & End Kits	
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
Stacked Header & End Kits	
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
Distribution & Return Kits with SS Wall Mount Brackets	
EC100	Distribution & Return Kit, 10' Complete, Open Top, w/Brkts
EC100C	Distribution & Return Kit, 10' Complete, Closed Top, w/Brkts
Distribution & Return Kits	
EC110	Distribution & Return Kit, 10' Complete, Open Top
EC110C	Distribution & Return Kit, 10' Complete, Closed Top
H-Channel	
ECS109	H-Channel, for Stacked Systems, Stainless-Steel, 10'
Pump	
PP10492	Pump, Submersible, 1/2 HP, 69 GPM
Pads - 45/15 Flutes with Edge Coat	
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, 48 per Box
*30/30 flutes are available on special order	

HIGH PRESSURE FOG & COOLING

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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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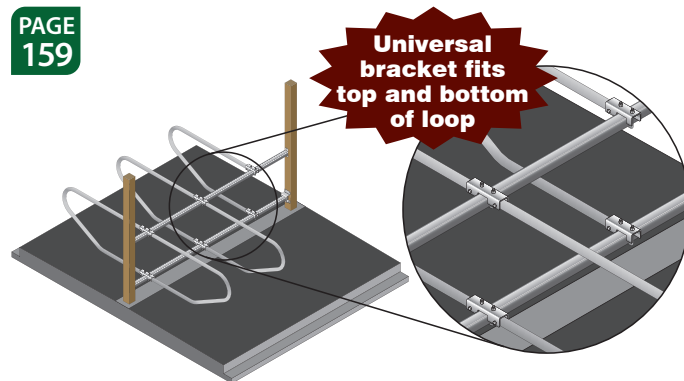
- Adjustable
- Cow spacing for more cow comfort area
 - Height when using the calf/heifer loop mounts



Don't forget my brush!

ADJUSTABLE TWIN BEAM SUSPENDED FREESTALL SYSTEM

PAGE 159



Universal bracket fits top and bottom of loop

SPLIT RAIL SUSPENDED FREESTALL SYSTEM

A flexible and easy-to-install freestall system – at an affordable price.

PAGE 161



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.

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

- 2³/₈" - Ironside Loops 
- 2³/₈" - Relax Fit Loops 
- 2³/₈" - Dog Bone Loops 




Cow - Adjustable Twin Beam Suspended Freestall System* with

- 2³/₈" - Ironside Loops 
- 2³/₈" - Relax Fit Loops 
- 2³/₈" - 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

- 2³/₈" - Ironside Loops 
- 2³/₈" - Relax Fit Loops 
- 2³/₈" - Dog Bone Loops 

Post-less Freestall System with

- 2³/₈" - Post-less Relax Fit Loops 

Control Rail Options

Control Rail Size

- 1.9" 11-Gauge
- 2³/₈" 10-Gauge

Control Rail Brackets

- HF42A (1.9" control rail 1.9" loop)
- HF42B (2³/₈" control rail 2³/₈" loop)
- HF42AB (1.9" control rail 2³/₈" loop)
- HF43 (1.9" control rail 2³/₈" loop)

Set of End of Control Rail Brackets

- HF919V (1.9" control rail)
- HF819HV2 (2³/₈" 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.

⚠ 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.

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
- 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
- Choose either cow loop system or calf/heifer adjustable loop system

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

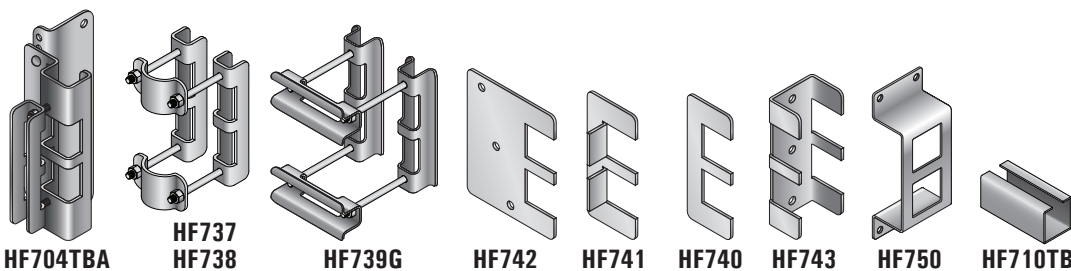
- Tight fitting $\frac{1}{4}$ " steel control rail clamps with $\frac{1}{2}$ " carriage bolts or our rubber cushion control rail clamp

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Adjustable Twin Beam Suspended Freestall System

Twin Beam Rail, Mounts, & Splices

Part #	Description
Beam	
RPGA311288	Square Tube, 3" x 3" x 288", 11 ga. Galvanized
Adjustable Twin Beam Mounts	
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
Twin Beam Mounts	
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
Beam Splices	
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



HF704TBA

HF737
HF738

HF739G

HF742

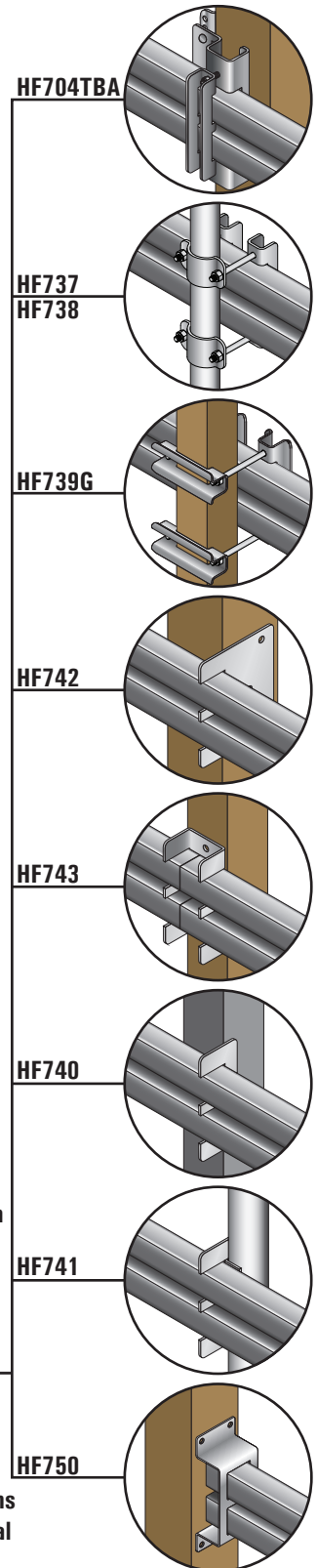
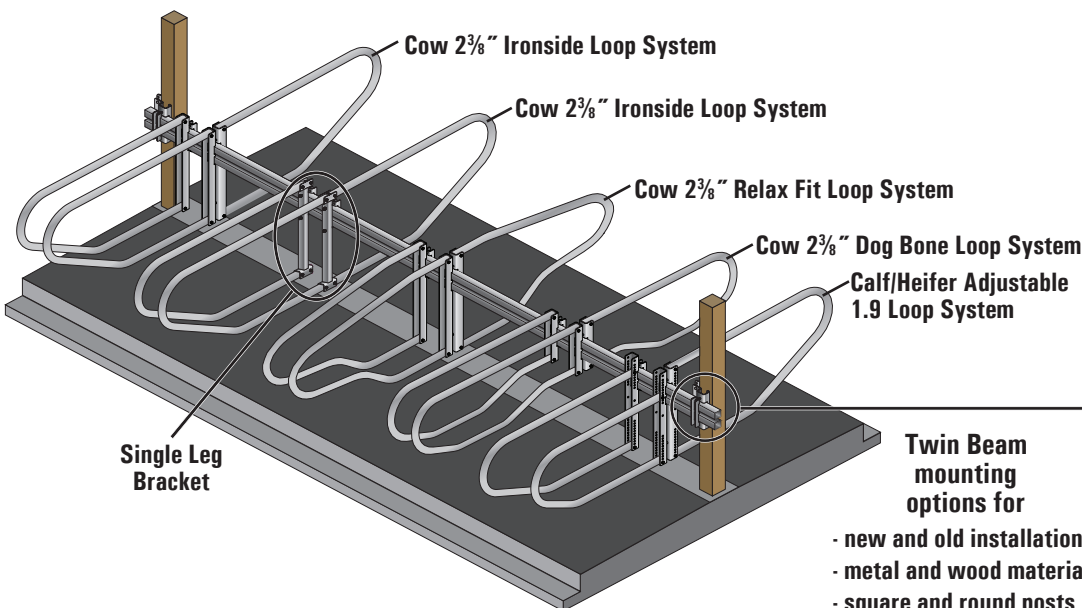
HF741

HF740

HF743

HF750

HF710TB



HF704TBA

HF737
HF738

HF739G

HF742

HF743

HF740

HF741

HF750

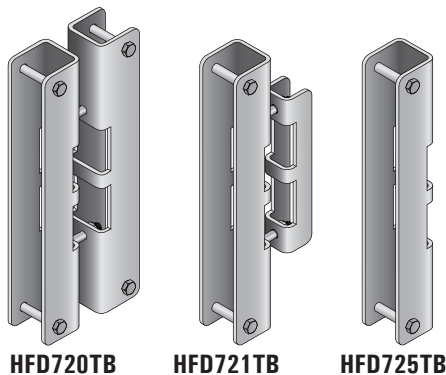
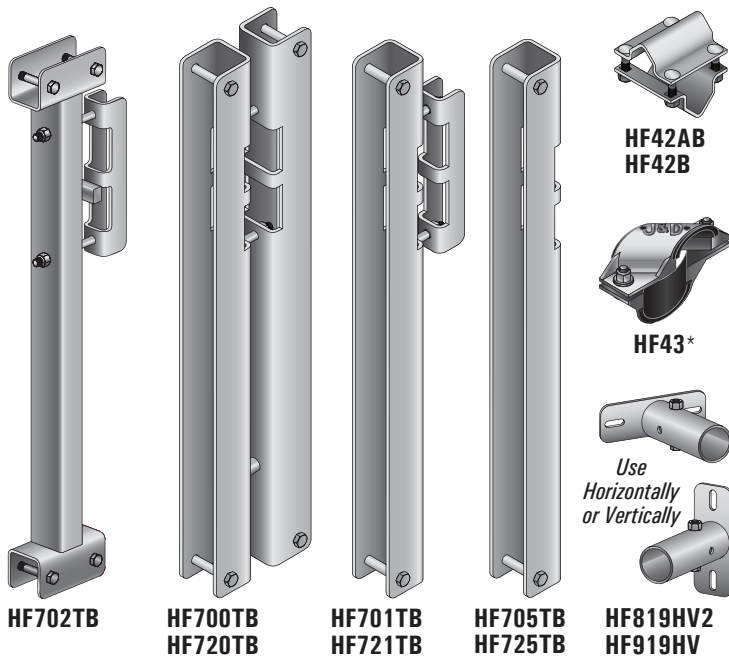
FREESTALL SYSTEMS

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Cow 2³/₈" OD Loop System for Twin Beam Suspended Freestall

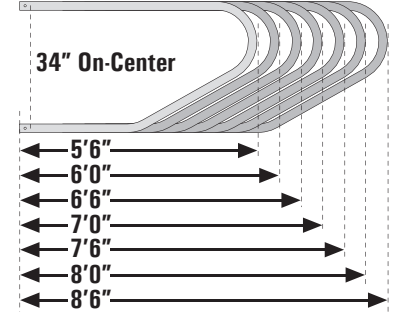
Twin Beam Stall Mount Brackets

Part #	Descriptions
Ironside Brackets	
HF702TB	Bracket, Twin Beam, 2 ³ / ₈ " Universal (Double or Single) Row, Ironside, Single Leg, HD Galv, w/Hrdw
HF700TB	Bracket, Twin Beam, 2 ³ / ₈ " Double Row, Ironside, HD Galv, w/Hrdw
HF701TB	Bracket, Twin Beam, 2 ³ / ₈ " Single Row, Ironside, HD Galv, w/Hrdw
HF705TB	Bracket, Twin Beam, 2 ³ / ₈ " Wall/Post, Ironside, HD Galv, w/Hrdw
Relax Fit Brackets	
HF720TB	Bracket, Twin Beam, 2 ³ / ₈ " Double Row, Relax Fit, HD Galv, w/Hrdw
HF721TB	Bracket, Twin Beam, 2 ³ / ₈ " Single Row, Relax Fit, HD Galv, w/Hrdw
HF725TB	Bracket, Twin Beam, 2 ³ / ₈ " Wall/Post, Relax Fit, HD Galv, w/Hrdw
Dog Bone Brackets	
HFD720TB	Bracket, Twin Beam, 2 ³ / ₈ " Double Row, Dog Bone, HD Galv, w/Hrdw
HFD721TB	Bracket, Twin Beam, 2 ³ / ₈ " Single Row, Dog Bone, HD Galv, w/Hrdw
HFD725TB	Bracket, Twin Beam, 2 ³ / ₈ " Wall/Post, Dog Bone, HD Galv, w/Hrdw



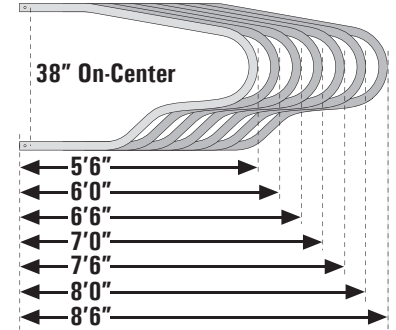
2³/₈" OD, 10-Gauge Cow Loops Ironside Loops

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"



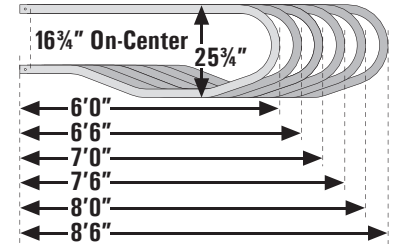
Relax Fit Loops

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
1.9" Control Rails, Clamps, and Mounts	
TR1911	Rail, Control, 1.9"x288", 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 & Hrdw
HF919HV	Mount, (2) Horz/Vert, for 1.9" Pipe, HD Galv., with Hardware
2³/₈" Control Rails, Clamps, and Mounts	
TR2375	Rail, Control, 2 ³ / ₈ "x288", 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

⚠ 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.

Calf/Heifer Adjustable Loop System for Twin Beam Suspended Freestall

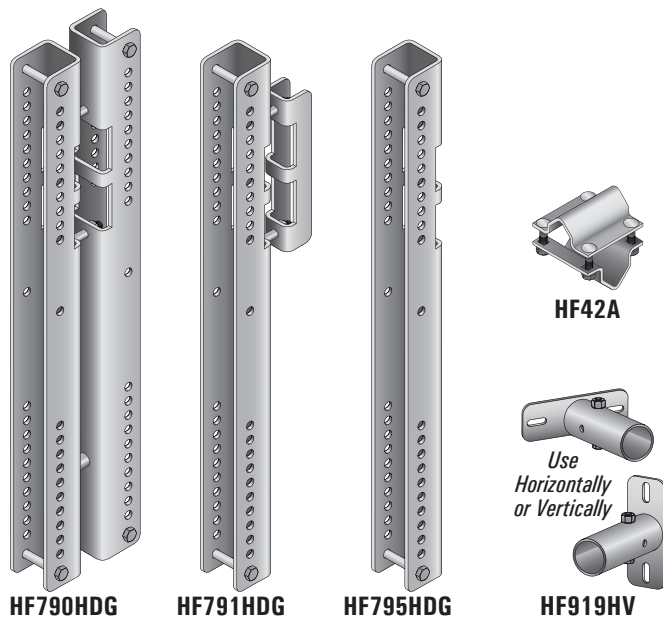
The Adjustable Loop Twin Beam System offers the same features as our standard Twin Beam system, but adds the flexibility of individual loop adjustments. Consider the possibilities of raising or lowering the height of individual rows or sections of stalls throughout your barn to fit your growing herd.



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

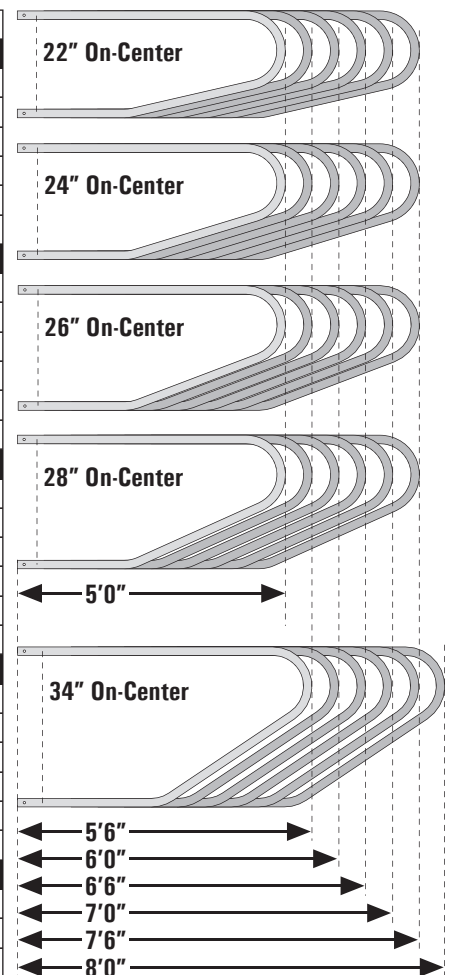
Calf/Heifer Ironside Loops - 1.9" OD, 11 GA.



1.9" Ironside Loop Brackets for Twin Beam Stall System

Part #	Description
Loop Brackets	
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
1.9" Control Rails, Clamps, and Mounts	
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
22" On-Center	
TFC950-22	5'0"
TFC956-22	5'6"
TFC960-22	6'0"
TFC966-22	6'6"
TFC970-22	7'0"
TFC976-22	7'6"
24" On-Center	
TFC950-24	5'0"
TFC956-24	5'6"
TFC960-24	6'0"
TFC966-24	6'6"
TFC970-24	7'0"
TFC976-24	7'6"
26" On-Center	
TFC950-26	5'0"
TFC956-26	5'6"
TFC960-26	6'0"
TFC966-26	6'6"
TFC970-26	7'0"
TFC976-26	7'6"
28" On-Center	
TFC950-28	5'0"
TFC956-28	5'6"
TFC960-28	6'0"
TFC966-28	6'6"
TFC970-28	7'0"
TFC976-28	7'6"
34" On-Center	
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

FREESTALL SYSTEMS

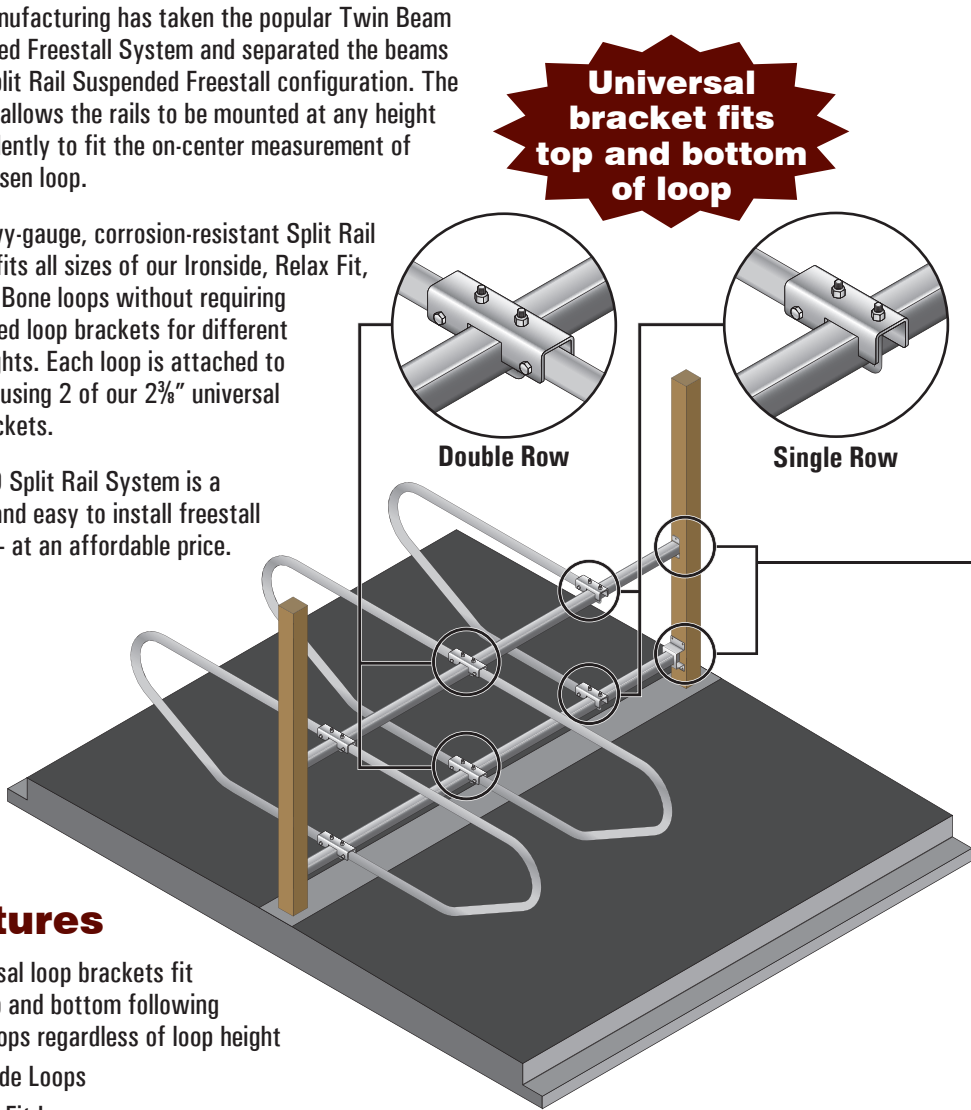
⚠ WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov/product.

Split Rail Suspended Freestall System

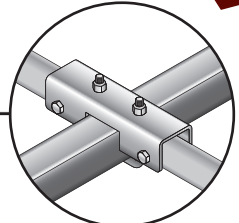
J&D Manufacturing has taken the popular Twin Beam Suspended Freestall System and separated the beams into a Split Rail Suspended Freestall configuration. The split rail allows the rails to be mounted at any height independently to fit the on-center measurement of your chosen loop.

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^{3/8}" universal loop brackets.

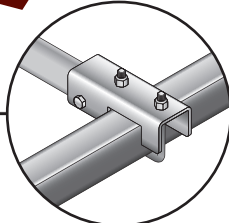
The J&D Split Rail System is a flexible and easy to install freestall system – at an affordable price.



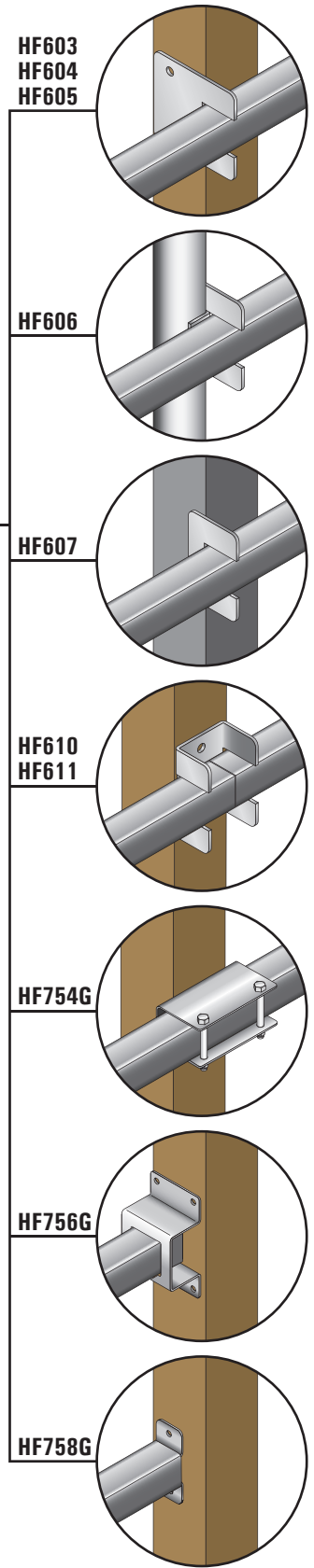
Universal bracket fits top and bottom of loop



Double Row



Single Row



HF603
HF604
HF605

HF606

HF607

HF610
HF611

HF754G

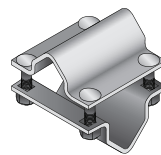
HF756G

HF758G

Features

- Universal loop brackets fit the top and bottom following 2^{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 1/4" steel control rail clamps with 1/2" carriage bolts or our rubber cushion control rail clamp
- Compatible with any bedding system

Great system for large outside rows



HF42AB
HF42B

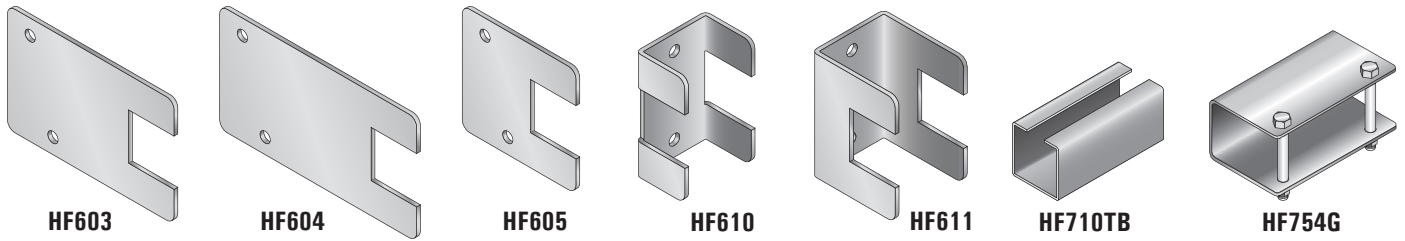


HF43*

FREESTALL SYSTEMS

⚠ 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.

Split Rail Suspended Freestall System



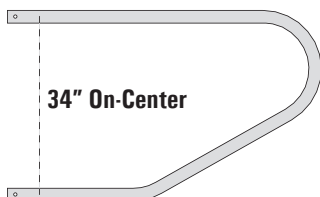
Part #	Description
Rail	
RPGA311288	Square Tube, 3" x 3", 288", 11 ga. Galvanized
Rail Mounts & Splices	
HF603	Mount, Split Rail Face, Bolt to Square Post, Weld to Rail, Ext. for 6" Curb, 1/4" Pntd Slvr
HF604	Mount, Split Rail Face, Bolt to Square Post, Weld to Rail, Ext. for 8" Curb, 1/4" Pntd Slvr
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
Stall Brackets	
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
1.9" Control Rails, Clamps, & Mounts	
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
2 3/8" Control Rails, Clamps, & Mounts	
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

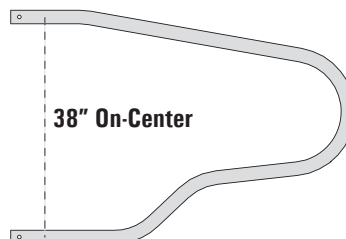
Part#	Length
TF856-H	5'6"
TF860-H	6'0"
TF866-H	6'6"
TF800-H	7'0"
TF876-H	7'6"
TF880-H	8'0"
TF886-H	8'6"



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"



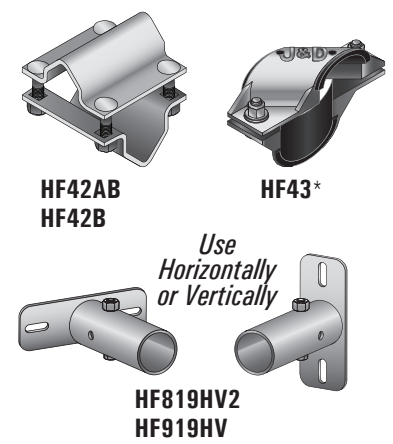
Cow Dog Bone Loops

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"



Use
Horizontally
or Vertically



⚠ 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.

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, 2¾" 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, 2¾" galvanized tubing
- Swaged on the end for easy assembly

Up-Post:

- Heavy-duty, 7-gauge, 2¾" 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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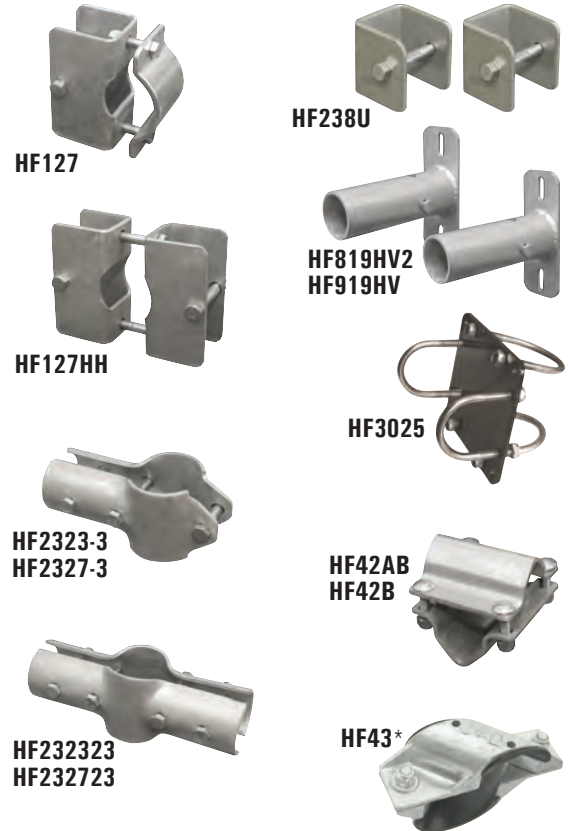
Single Post Freestall System

Single Post Components

Part #	Description
Weld Free Clamp Systems	
HF127	Mount, U-Bracket, 1/4" for 2 3/8" Post, Horiz., Single Row, w/Hdwr, HDG
HF127HH	Mount, U-Bracket, 1/4" for 2 3/8" Post, Horiz., Double Row, w/Hdwr, HDG
HF2323-3	Clamp, Tee w/Flange, 2 3/8" x 2 3/8", w/Hardware, HDG
HF2327-3	Clamp, Tee w/Flange, 2 3/8" X 2 7/8", w/Hardware, HDG
HF232323	Clamp, Cross, 2 3/8" X 2 3/8" X 2 3/8", w/Hardware, HDG
HF232723	Clamp, Cross, 2 3/8" X 2 7/8" X 2 3/8", w/Hardware, HDG
HF238U	Bracket, U for Wood or Metal Post 2 3/8", w/Hdwr, HDG (Set of 2)
HF3025	Clamp, U-Bolt Cross, 3" x 2 1/2", w/Hardware, Painted
HF819HV2	Mount, Horizontal/Vertical Pipe, for 2 3/8", w/Hdwr, HDG (Set of 2)
HF919HV	Mount, Horizontal/Vertical Pipe, for 1.9", w/Hdwr, HDG (Set of 2)
Control Rail	
TR1911	Control Rail, 1.9", 11 gauge, 288", Galvanized, Swaged
TR2375	Control Rail, 2 3/8", 10 gauge, 288", Galvanized, Swaged
HF42AB	Clamp, Control Rail 1.9" x 2 3/8", 1/4" HDG, Steel, with 1/2" Bolts
HF42B	Clamp, Control Rail 2 3/8" x 2 3/8", 1/4" Steel, HDG, with 1/2" Bolts
HF43*	2-Bolt Clamp, Control Rail 1.9" x 2 3/8", Cast Iron, HDG, with 1/2" Bolts
Up-Posts for Stall Systems	
HF27860	Up-Post, 2 7/8" X 59", Bolt Mount, HDG
HF27872	Up-Post, 2 7/8" 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 - 2 3/8" OD - 10-Gauge

Ironside Loops

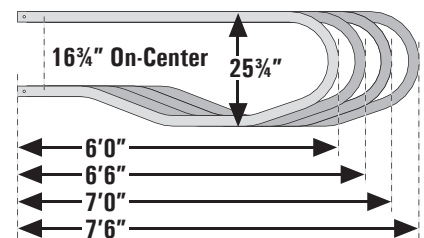
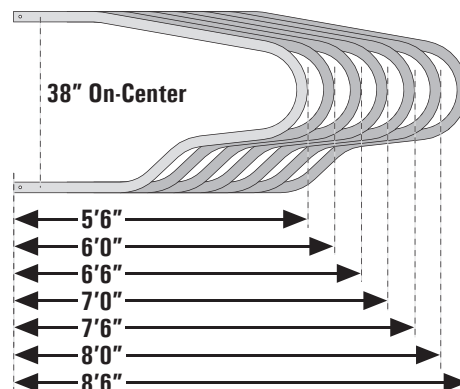
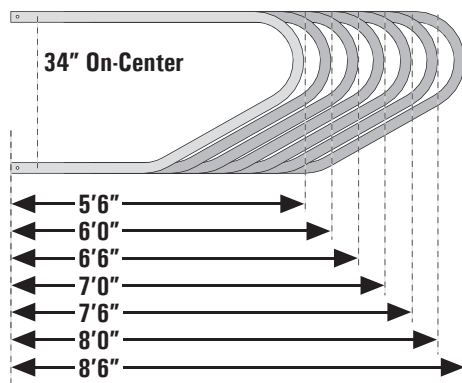
Part#	Length
TF856-H	5'6"
TF860-H	6'0"
TF866-H	6'6"
TF800-H	7'0"
TF876-H	7'6"
TF880-H	8'0"
TF886-H	8'6"

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.

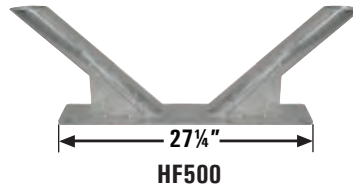
⚠ WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov/product.

Post-less Freestall System

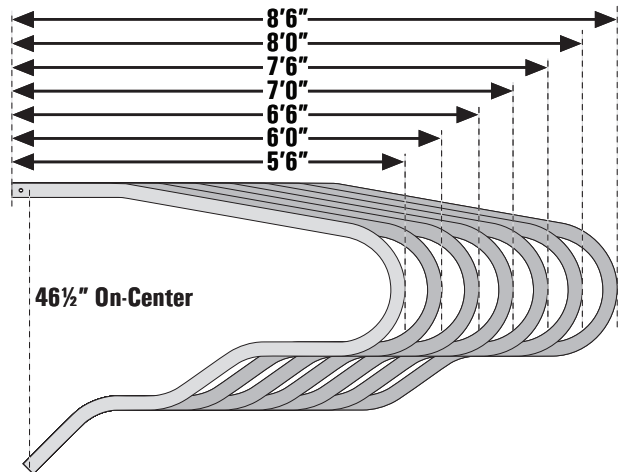
J&D's Post-less Freestall System requires less hardware, provides increased headroom, and reduces air restrictions and animal injuries. With the benefit of being able to install after cement is poured and with no concern for post placement, this system allows for easy retrofitting without all the complications 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 1/4" steel control rail clamps with labor saving 1/2" carriage bolts and nylock nuts



Part #	Descriptions
Loops	
TFP856	Loop, Post-Less Freestall, 2 3/8", 5'6", 10-gauge, Galvanized
TFP860	Loop, Post-Less Freestall, 2 3/8", 6', 10-gauge, Galvanized
TFP866	Loop, Post-Less Freestall, 2 3/8", 6'6", 10-gauge, Galvanized
TFP870	Loop, Post-Less Freestall, 2 3/8", 7', 10-gauge, Galvanized
TFP876	Loop, Post-Less Freestall, 2 3/8", 7'6", 10-gauge, Galvanized
TFP880	Loop, Post-Less Freestall, 2 3/8", 8', 10-gauge, Galvanized
TFP886	Loop, Post-Less Freestall, 2 3/8", 8'6", 10-gauge, Galvanized
Control Rail	
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 3/8", 1/4" Steel, HDG, with 1/2" Bolts
HF42B	Clamp, Control Rail 2 3/8" x 2 3/8", 1/4" Steel, HDG, with 1/2" Bolts
HF43*	2-Bolt Clamp, Control Rail 1.9" x 2 3/8", HDG, with 1/2" Bolts
HF819HV2	Mount, 2 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)
Bases and Splice	
HF500	Base, Post-Less Freestall, Head-to-Head, HDG
HF501	Base, Post-Less Freestall, Single Row, HDG
HF510	Clamp, Stall Splice, 2 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.

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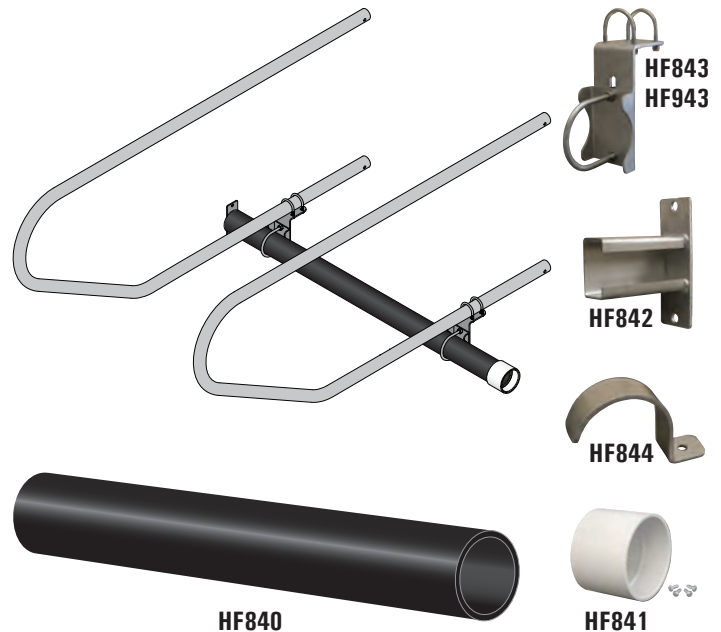
FREESTALL SYSTEMS

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.

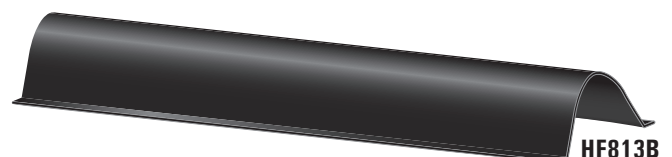
Part#	Description
HF810	Bracket, 2 $\frac{3}{8}$ " Loop, Brisket Mount, $\frac{1}{4}$ " Steel, Powder Coat
HF910	Bracket, 1.9" Loop, Brisket Mount, $\frac{1}{4}$ " Steel, Powder Coat



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'



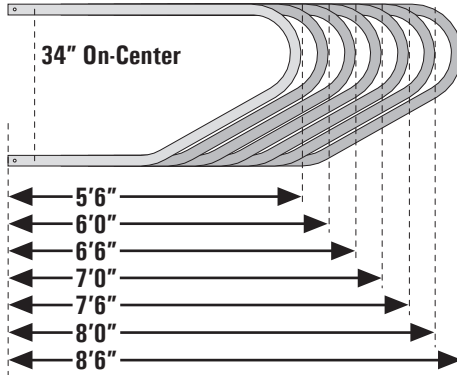
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Cow/Heifer/Calf Freestall Loops

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.

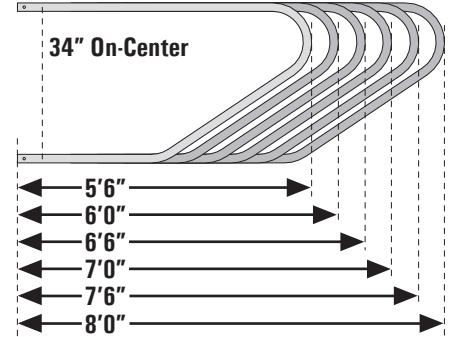
Cow Ironside Loops - 2³/₈" OD, 10 GA.

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"



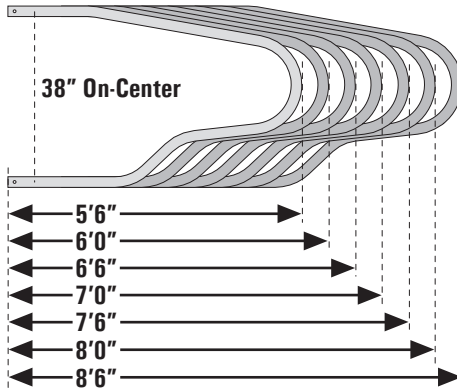
Heifer Ironside Loops - 1.9" OD, 11 GA.

Part#	Length
TF956	5'6"
TF960	6'0"
TF966	6'6"
TF970	7'0"
TF976	7'6"
TF980	8'0"



Cow Relax Fit Loops - 2³/₈" OD, 10 GA.

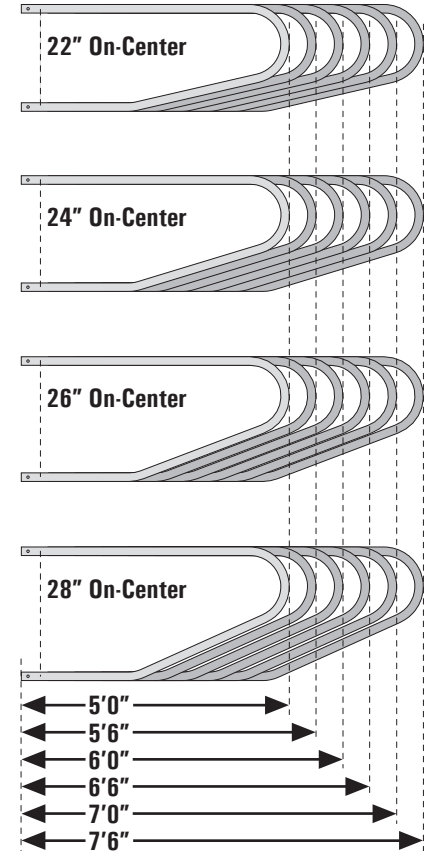
Part#	Length
TFY856-H	5'6"
TFY860-H	6'0"
TFY866-H	6'6"
TFY870-H	7'0"
TFY876-H	7'6"
TFY880-H	8'0"
TFY886-H	8'6"



Calf/Heifer Ironside Loops - 1.9" OD, 11 GA.

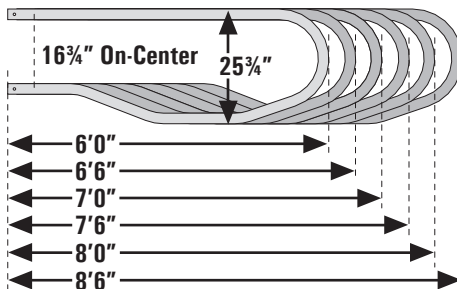
Individually Adjustable Loop System Compatible

Part#	Length
22" On-Center	
TFC950-22	5'0"
TFC956-22	5'6"
TFC960-22	6'0"
TFC966-22	6'6"
TFC970-22	7'0"
TFC976-22	7'6"
24" On-Center	
TFC950-24	5'0"
TFC956-24	5'6"
TFC960-24	6'0"
TFC966-24	6'6"
TFC970-24	7'0"
TFC976-24	7'6"
26" On-Center	
TFC950-26	5'0"
TFC956-26	5'6"
TFC960-26	6'0"
TFC966-26	6'6"
TFC970-26	7'0"
TFC976-26	7'6"
28" On-Center	
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 - 2³/₈" OD, 10 GA.

Part#	Length
TFD860	6'0"
TFD866	6'6"
TFD800	7'0"
TFD876	7'6"
TFD880	8'0"
TFD886	8'6"



⚠ 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.



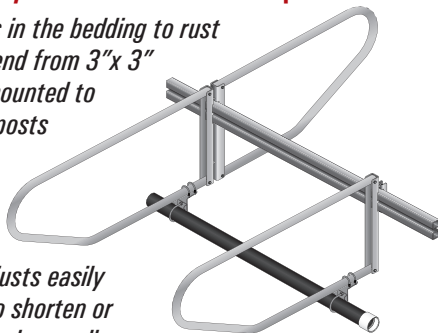
VPX Panel Fans

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 Iron Side 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

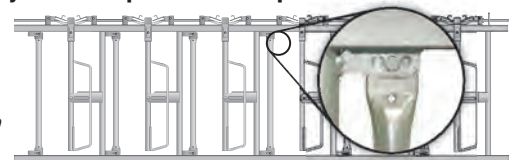


Adjustable Poly Brisket Tube System

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

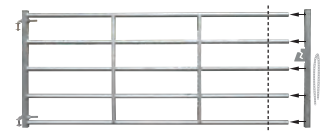
Hercules Heavy-Duty Adjustable Square Tube Superlock Panels

The HEAVIEST headlocks on the market with adjustable neck openings



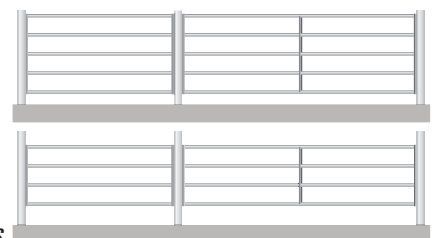
Steel Make-A-Gate

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



FREESTALL SYSTEMS

YOUR HEADLOCK AND FEED PANEL HEADQUARTERS

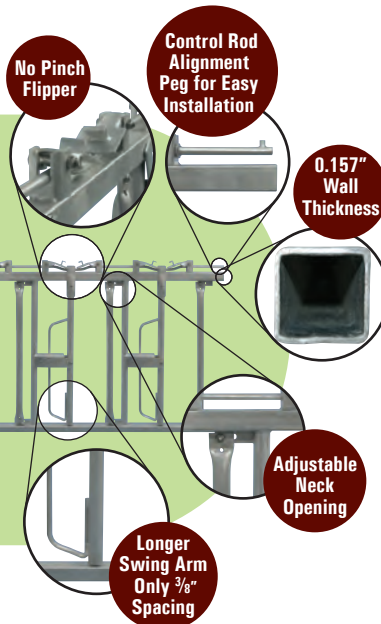
Your cows will eat more and produce more milk when they're able to move easily and comfortably. J&D Manufacturing's lineup of panels and headlocks are super easy to install and fully adjustable to grow with your herd. Our headlocks and feed panels are all made with the highest quality materials and come in a variety of options to handle the unique needs of your barn.

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**TALLER,
ADJUSTABLE,
AND HEAVIER**

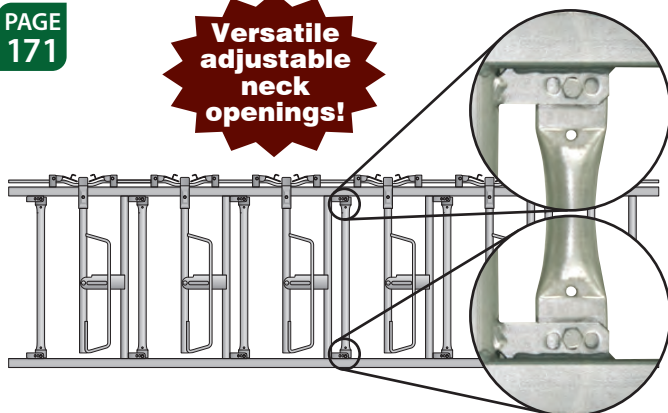
**THAN THE
COMPETITION**



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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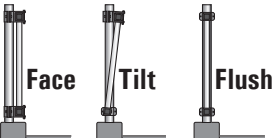
CALF AUTO RELEASE ADJUSTABLE SQUARE TUBE SUPERLOCK PANELS

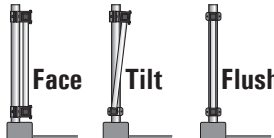
Panels grow with your calf. The adjustable neck opening provides an additional 1¼" of adjustment with the change of two bolts.

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.

Project Name or ID: _____
 Building ID: _____ Page: _____ of _____

Run Number or ID:	# of Panels Per Run:
_____	_____
Animal Size	Up-post Type
<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
Headlock Strength	Mounting Position
<input type="radio"/> Standard <input type="radio"/> Heavy-Duty (Hercules)	<input type="radio"/> Face <input type="radio"/> Tilt <input type="radio"/> Flush
On-Center Measurement Up-post to Up-post	
<input type="radio"/> 8' <input type="radio"/> 10' <input type="radio"/> 12'* <i>*Warranty requires 12' headlocks be installed with a center support</i>	Mounting Process
Center Supports	<input type="radio"/> Bolt-On <input type="radio"/> Weld-On
<input type="radio"/> Yes (HPS157) <input type="radio"/> No	End of Run Mounting
	<input type="radio"/> Up-Post <input type="radio"/> Wall
	Control Rod Connectors
	<input type="radio"/> Bolt-On <input type="radio"/> Weld-On

Run Number or ID:	# of Panels Per Run:
_____	_____
Animal Size	Up-post Type
<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
Headlock Strength	Mounting Position
<input type="radio"/> Standard <input type="radio"/> Heavy-Duty (Hercules)	<input type="radio"/> Face <input type="radio"/> Tilt <input type="radio"/> Flush
On-Center Measurement Up-post to Up-post	
<input type="radio"/> 8' <input type="radio"/> 10' <input type="radio"/> 12'* <i>*Warranty requires 12' headlocks be installed with a center support</i>	Mounting Process
Center Supports	<input type="radio"/> Bolt-On <input type="radio"/> Weld-On
<input type="radio"/> Yes (HPS157) <input type="radio"/> No	End of Run Mounting
	<input type="radio"/> Up-Post <input type="radio"/> Wall
	Control Rod Connectors
	<input type="radio"/> Bolt-On <input type="radio"/> Weld-On

Notes:

⚠ 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.

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.

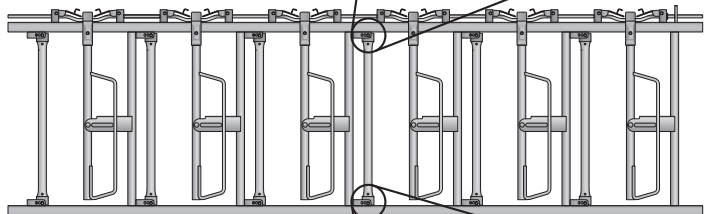
Features

- 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

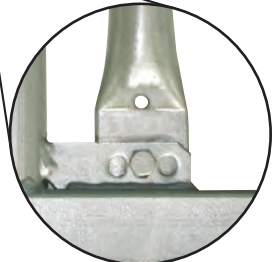
**HEAVIEST
on the
market!**



**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

HEADLOCKS & FEED PANELS

⚠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.

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

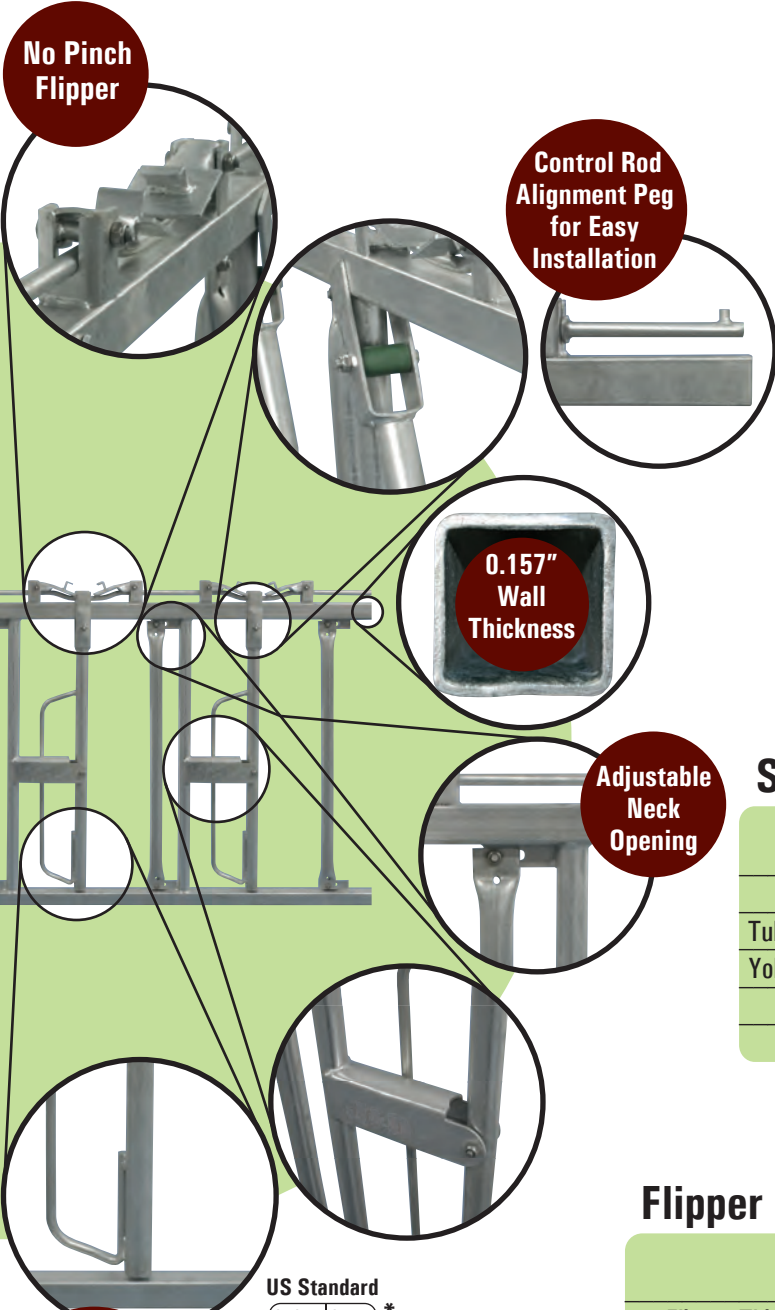
	J&D Hercules	Competitor A	Competitor B
Weight	✓ 291 lbs	269 lbs	240 lbs
Height	✓ 40"	38"	38"
Square Tube Thickness	✓ 0.157"*	0.136"*	0.107"*
Neck Opening	✓ Adjustable 7¾", 8⅝", 9"	Fixed 7½"	Fixed 7⅝"
Head Opening	✓ Adjustable	Fixed	Fixed

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"*



Control Rod Alignment Peg for Easy Installation

0.157" Wall Thickness

Adjustable Neck Opening

Longer Swing Arm Only 3/8" Spacing

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

⚠ 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.

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 1/4" 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.



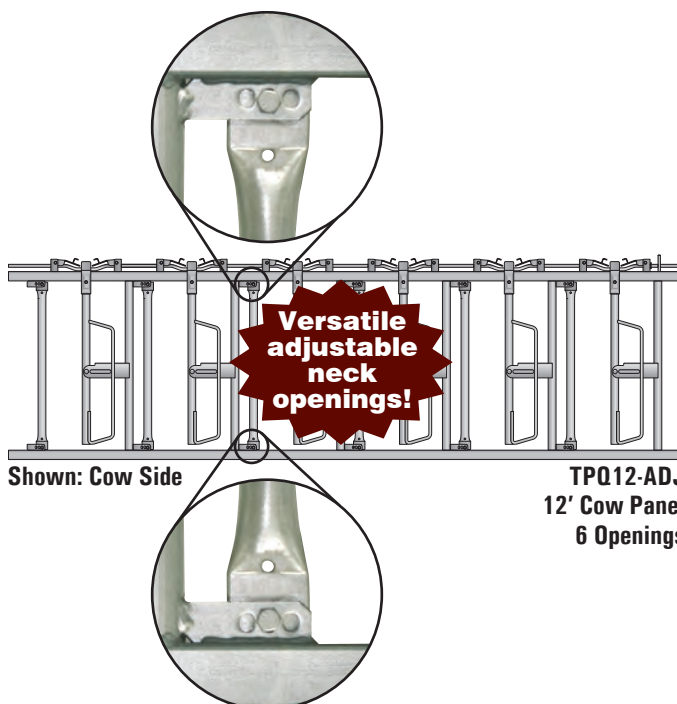
Features

- Standard panels available in cow or heifer models
- 7 1/2", 8 1/8", and 8 3/4" adjustable neck opening on cow panels
6 1/4", 6 7/8", and 7 1/2" adjustable neck opening on heifer panels
- 22 1/2" 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
Cow Panels					
TPQ8-ADJ	8'	4	7 1/2", 8 1/8", 8 3/4"	40"	181 lbs
TPQ10-ADJ	10'	5	7 1/2", 8 1/8", 8 3/4"	40"	200 lbs
TPQ12-ADJ*	12'	6	7 1/2", 8 1/8", 8 3/4"	40"	248 lbs
Heifer Panels					
TPQH8-ADJ	8'	5	6 1/4", 6 7/8", 7 1/2"	40"	186 lbs
TPQH10-ADJ	10'	6	6 1/4", 6 7/8", 7 1/2"	40"	225 lbs
TPQH12-ADJ*	12'	7	6 1/4", 6 7/8", 7 1/2"	40"	263 lbs

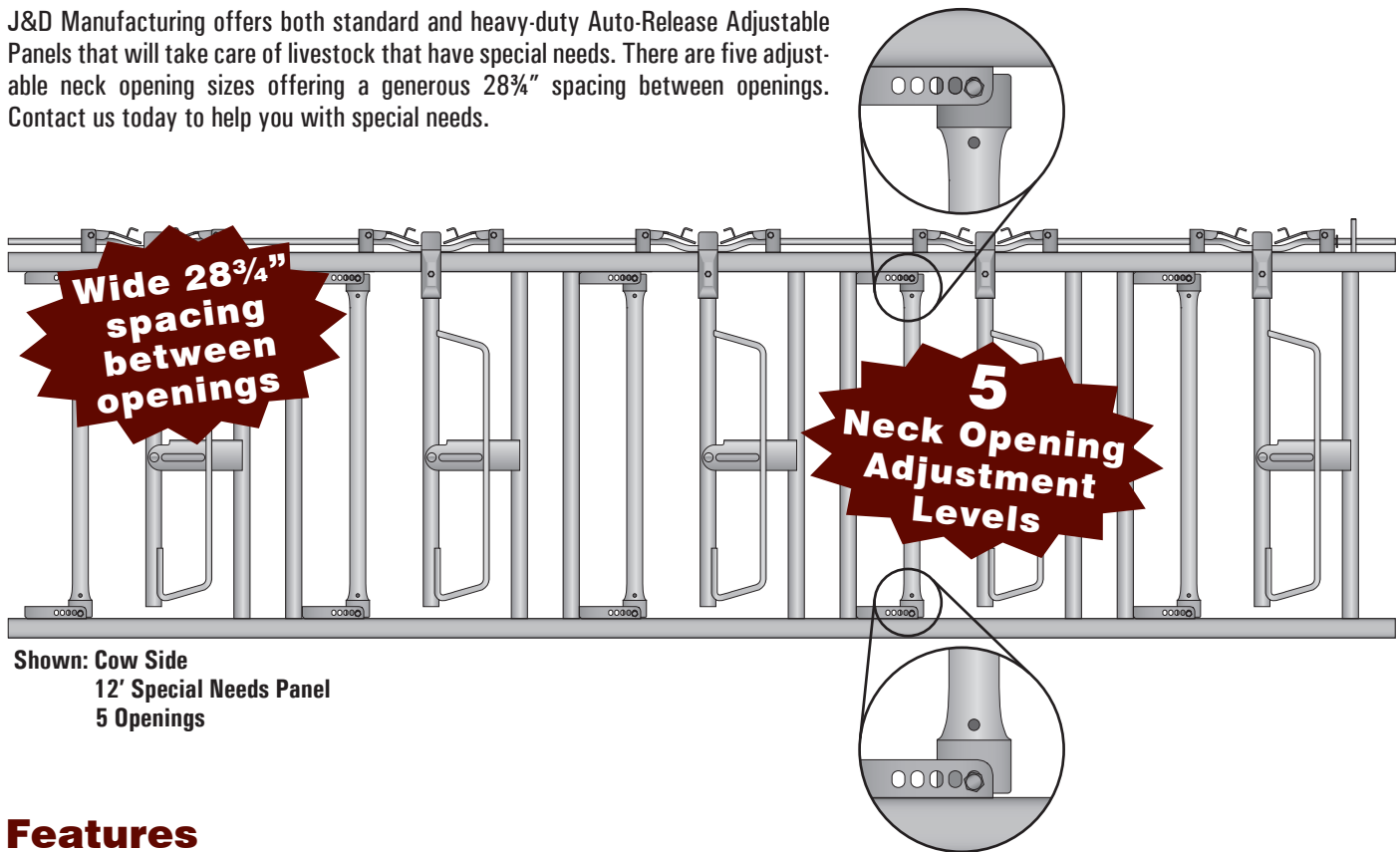
*One opening per cow recommended to prevent damage from cow budging
 ~Warranty requires 12' headlocks be installed with a center support



⚠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.

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.

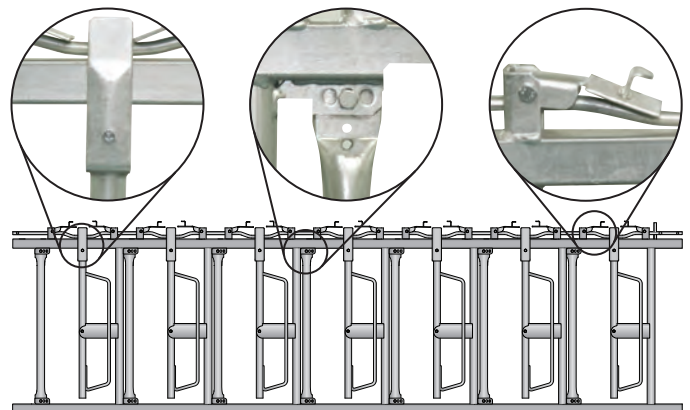
Calf Auto-Release Adjustable Square Tube Superlock Panels

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

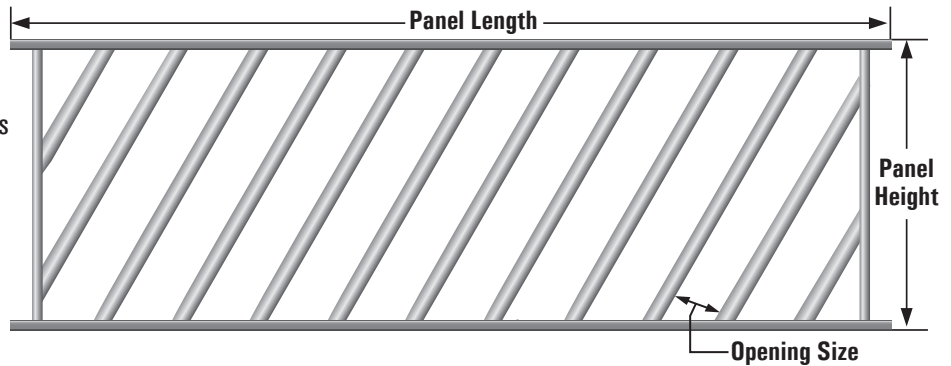
⚠ WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov/product.

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*
10' (120") Panels				
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
12' (144") Panels				
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, 1⁵/₈" 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

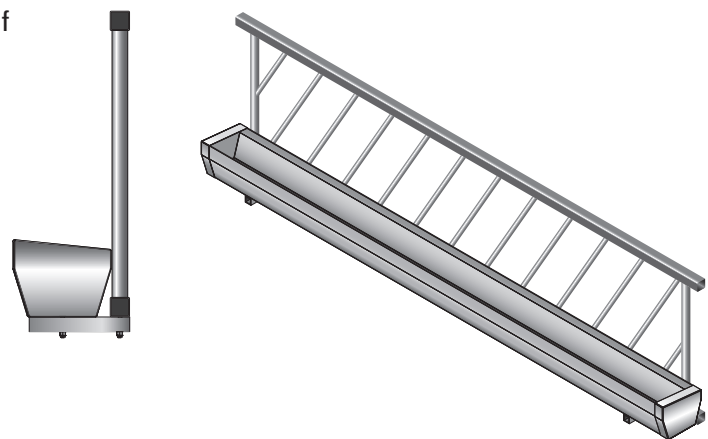
* Recommended bovine weights are estimates only, based on industry experience and information gathered from various dairy and veterinary publications.

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



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

Part#	Description
TPFT120SS	Feed Trough, Stainless-Steel, 10' with Mounting Hardware

⚠ 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.

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	Calif Headlocks	Slant Bar Feed Panels
Outer Mounting Brackets						
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
Inner Mounting Brackets						
1³/₄" OD Telescoping (not compatible with Hercules and "-HD" Panels)						
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
1¹/₂" OD Telescoping - for Hercules & "-HD" Panels						
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			
Additional Installation Components						
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



HPS103-HD



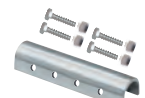
HPS104



HPS105



HPS106



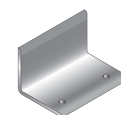
HPS107



HPS110 - ADJ



HP680

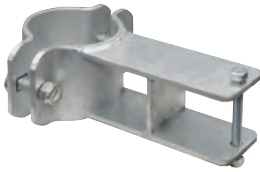


HPS157~

~Warranty requires 12' headlocks be installed with a center support

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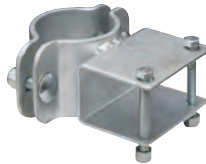
Square Tube Mounting Brackets & Installation Components for J&D Headlocks & Feed Panels



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)

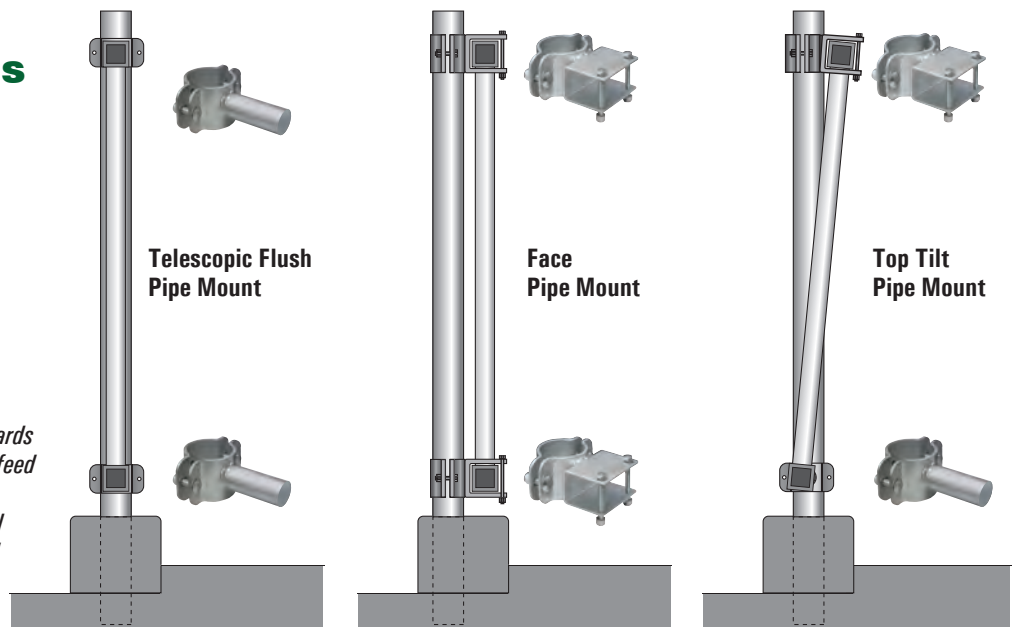
HPS154 (Flush)

HPS156 (Flush)

Mounting Recommendations

Headlocks should be installed with the J&D logo facing the feed aisle.

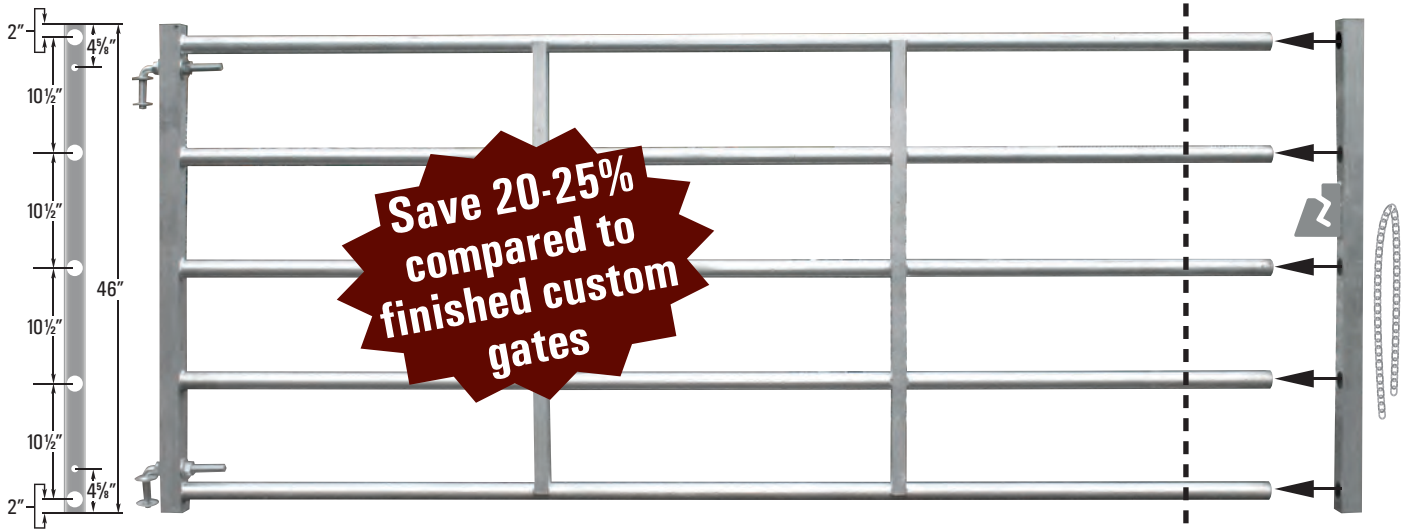
NOTE: Mounting post may be offset towards cow side to provide clearance for feed handling equipment on face mount applications. Amount of offset will depend on the size of the post and style of mounting bracket.



⚠ 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.

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



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
Accessories	
HGF365	Pass Thru, Vertical Adjustable Upright, for Steel Make-A-Gate

Most sizes in stock for immediate shipment!

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.



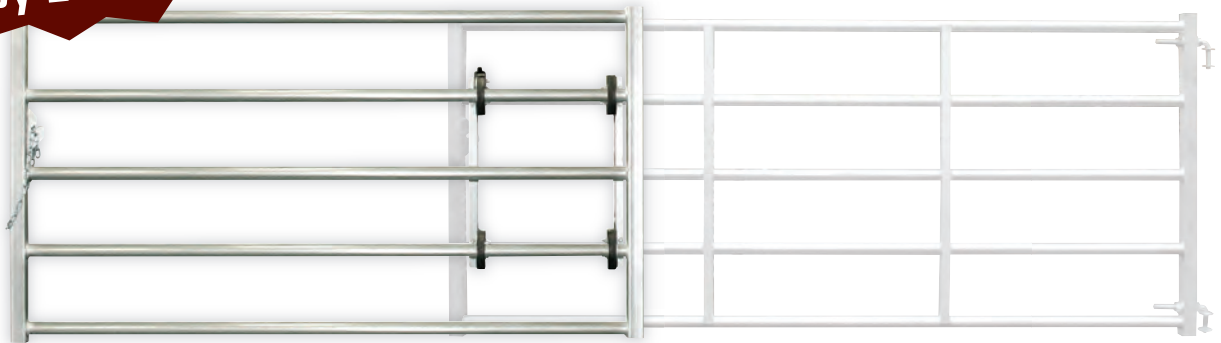
GATES & COLUMNS

⚠ 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.

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



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)

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.

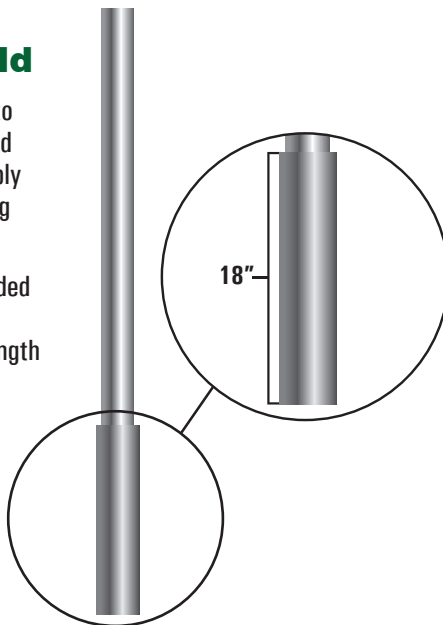
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Galvanized Steel Up-Posts

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

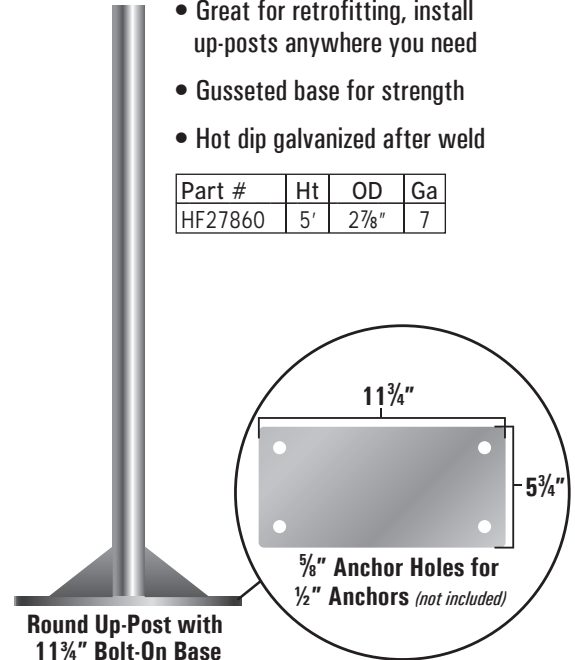


Round Up-Post with 18" Galv Steel Rust Shield (Hot Dip Galvanized after Welded)

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 ⁷ / ₈ "	7

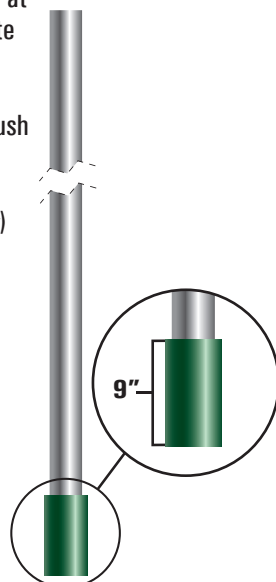


Round Up-Post with 11³/₄" Bolt-On Base (Hot Dip Galvanized after Welding)

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
2⁷/₈"			
TCG603P-6	6'	2 ⁷ / ₈ "	6
TCG663P-6	6'6"	2 ⁷ / ₈ "	6
TCG703P-6	7'	2 ⁷ / ₈ "	6
TCG763P-6	7'6"	2 ⁷ / ₈ "	6
TCG803P-6	8'	2 ⁷ / ₈ "	6
4"			
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

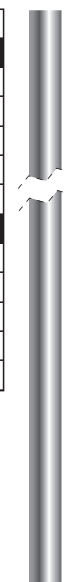


Round Up-Post with 9" Poly Rust Shield

Cement-In Round Up-Posts

- Galvanized plated

Part #	Ht	OD	Ga
2⁷/₈"			
HF27872	6'	2 ⁷ / ₈ "	6
TCG663-6	6'6"	2 ⁷ / ₈ "	6
TCG703-6	7'	2 ⁷ / ₈ "	6
TCG763-6	7'6"	2 ⁷ / ₈ "	6
TCG803-6	8'	2 ⁷ / ₈ "	6
4"			
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

⚠ 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.

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

**Order by
the Bundle
and \$ave**

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

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.

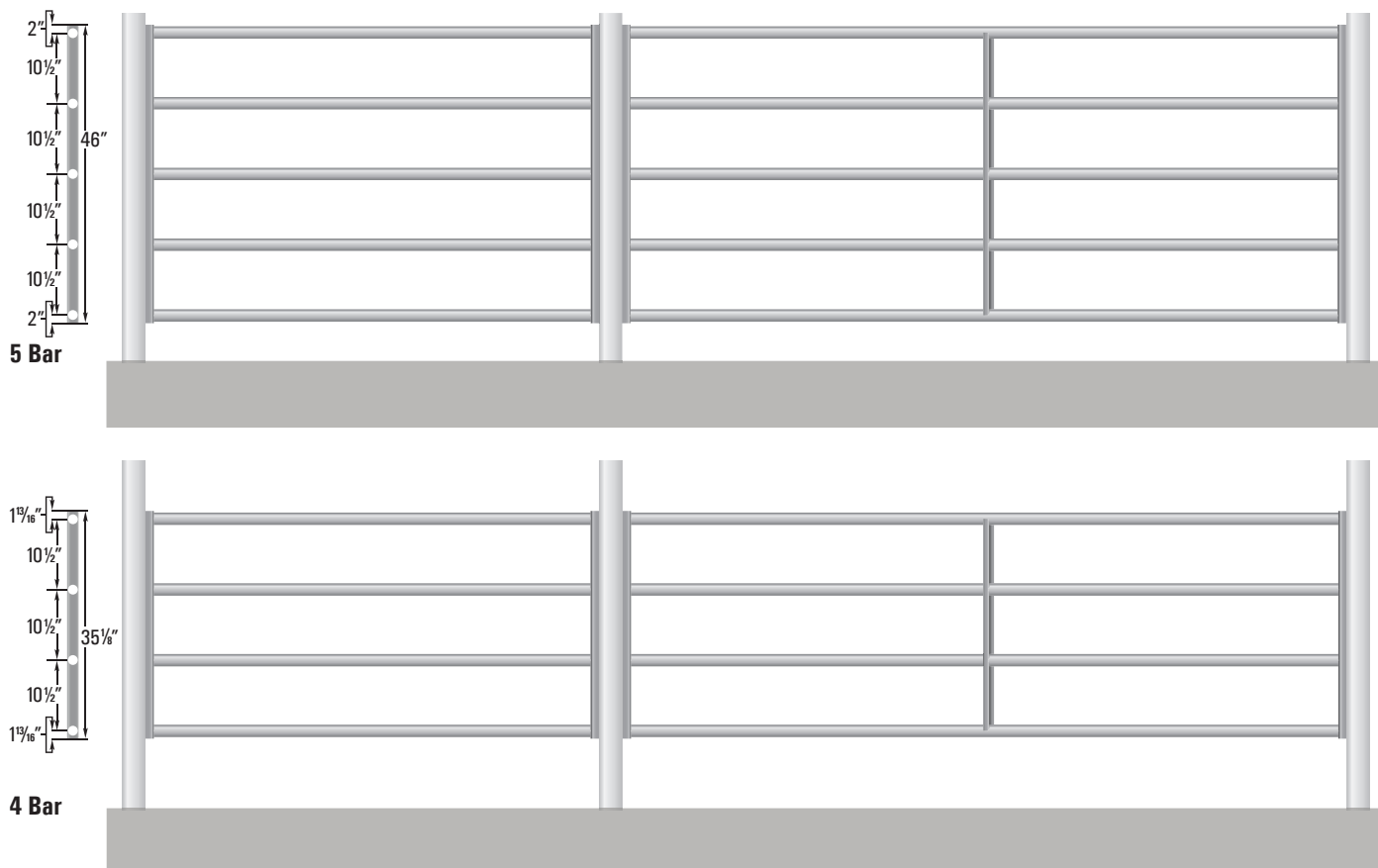
Features

- 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!

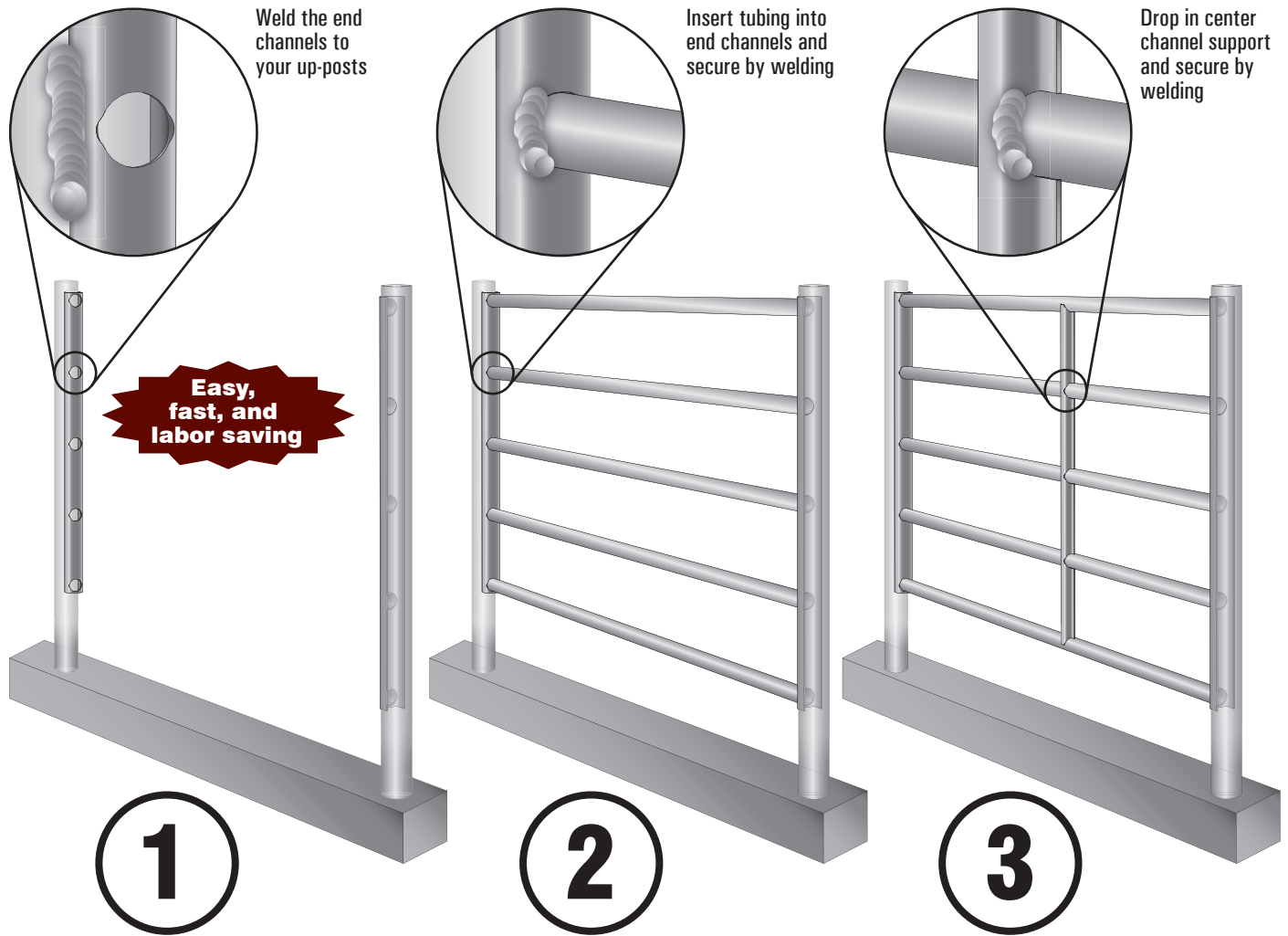


5 Bar

4 Bar

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Steel Make-A-Fence - Easy As 1, 2, 3



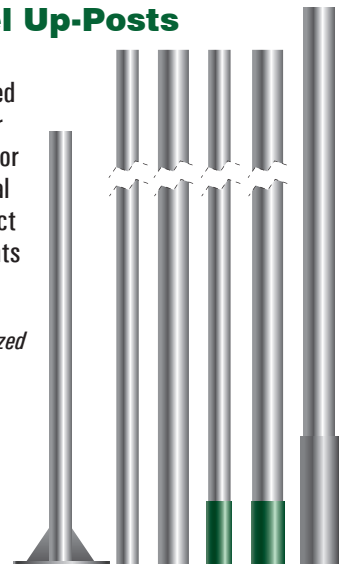
Steel Make-A-Fence Kits & Components

Part #	Description
5 Bar	
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
4 Bar	
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
Tubing	
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

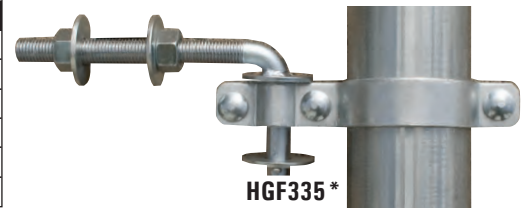
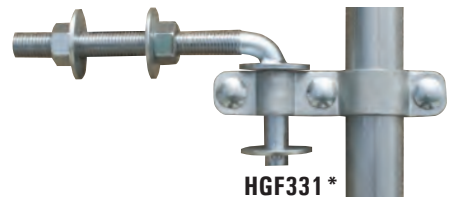
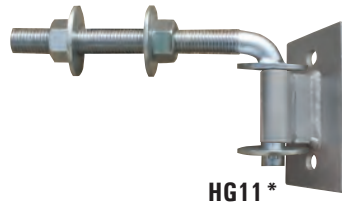
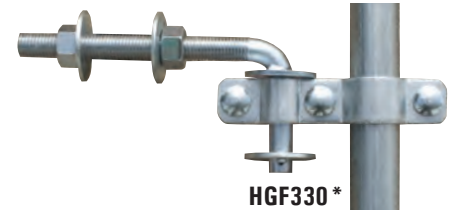
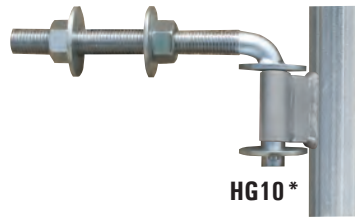
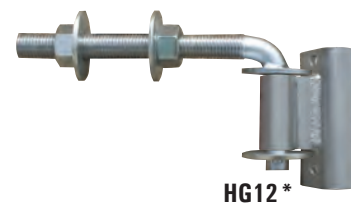
⚠ WARNING: This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov/product.

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 5/8", 1.9", and 4" post
- Sold in pairs

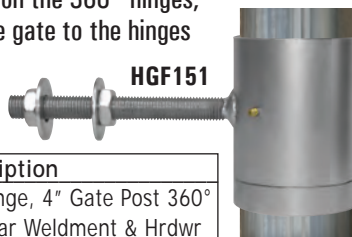


Part#	Description
Hinge Pins	
HGF150	(2) Hinge, Gate Thru Bolts Male End, HDG, with Hardware
Hinge Pin Pocket Mounts *	
HG10	(2) Hinge Pocket, Weld On, Mount to Flat or Round Surfaces, Zinc Plated
HG11	(2) Hinge Pocket, Bolt On, Mount to Flat Surface, Zinc Plated
HG12	(2) Hinge Pocket, Bolt or Weld On, Mount to Flat or Round Surfaces, Zinc Plated
HGF330	(2) Hinge Pocket Mount, Bolt On, Mount to 1 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.

360° Gate Hinge for 4" Gate Post

- Allows a FULL 360° rotation
- Zerk fittings on top and bottom hinge collars allow for quick lubrication enabling a smooth rotation
- Easy install, set gate height by welding the bottom collar on a 4" post, slide on the 360° hinges, and mount the gate to the hinges



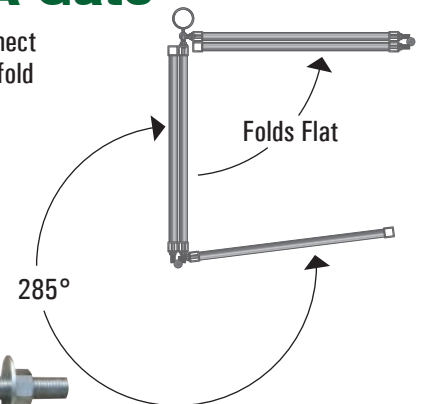
Part#	Description
HGF151	(2) Hinge, 4" Gate Post 360° w/Collar Weldment & Hrdwr

Bi-Fold Foldaway Gate Hinge for Steel Make-A-Gate

- Offset bolt design allows you to connect 2 Steel Make-A-Gates to create a bi-fold foldaway
- Versatility of standard bi-fold with a 285° reverse swing
- Can swing flat so it can be folded completely away



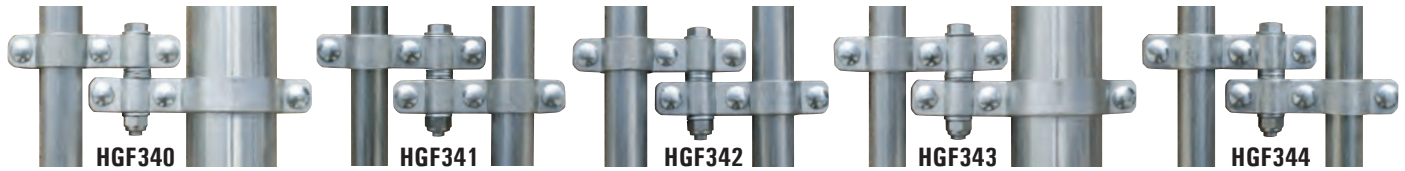
Part#	Description
HG49	(2) Hinges, Steel Make-A-Gate Bi-Fold Foldaway, w/Hrdwr



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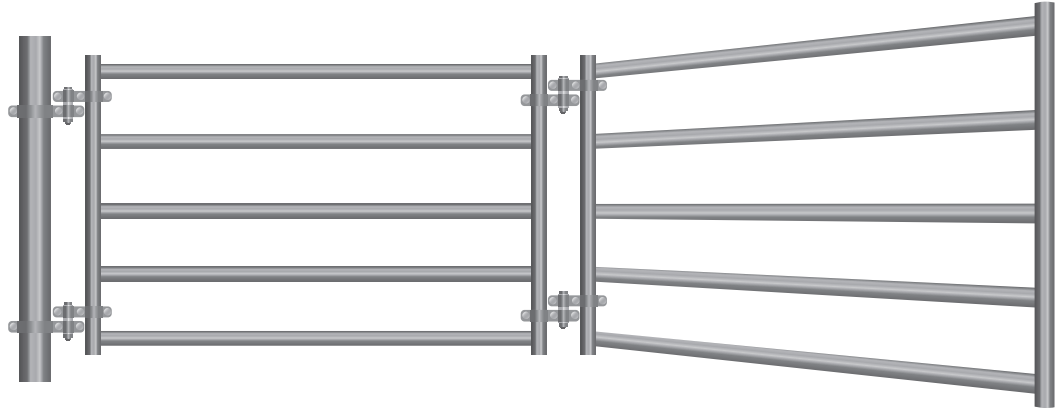
Round Tube Bolt-On Gate Hinges

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

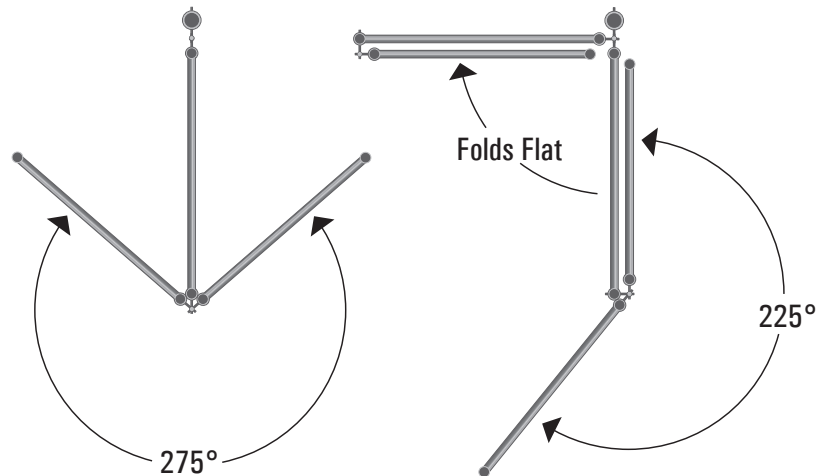


Round Tube Bi-Fold & Bi-Fold Foldaway Gate Hinges

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

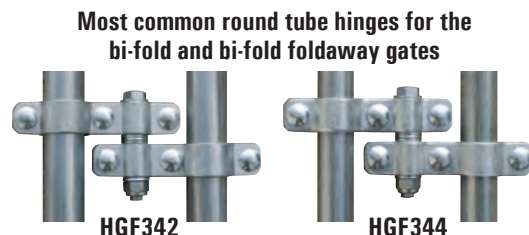


Mount hinge on the end of the gate to create a bi-fold with a 275° swing.

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

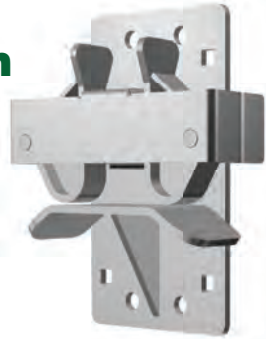


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Self Catching Gate Latches & Mounting Brackets

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 5/8" or 1.9" round tube, or 2" square tube
- Durable black powder coat finish

HG46 & HG47 - Pegs for Self Catching Latches

- 5 3/4" long 3/4" solid steel peg
- Bolt-on pegs available for 2" or 2 1/4" square tube
- HG47 is a great addition to our J&D Make-A-Gates



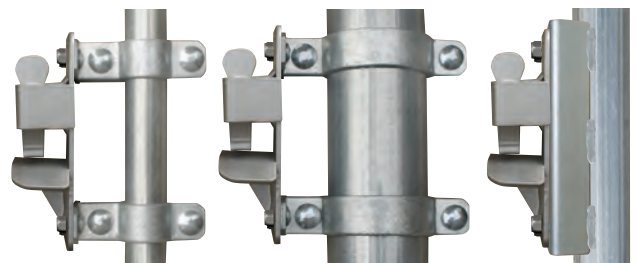
HG46
HG47



HP70

Optional Mounting Brackets for Self Catching Latches

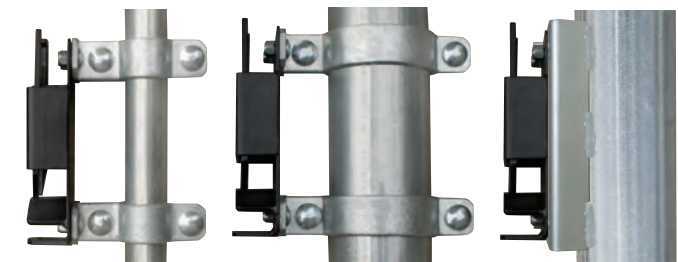
- Brackets compatible with HP40W and HP70 gate latches
- HGF320 & HGF325 brackets can be bolted to 1 5/8" or 4" tubes and are hot dip galvanized for long life
- HGF350 weld on bracket fits 2 7/8" post, 4" post, or a flat surface and has painted finish for easy welding



HGF320

HGF325

HGF350



HGF320

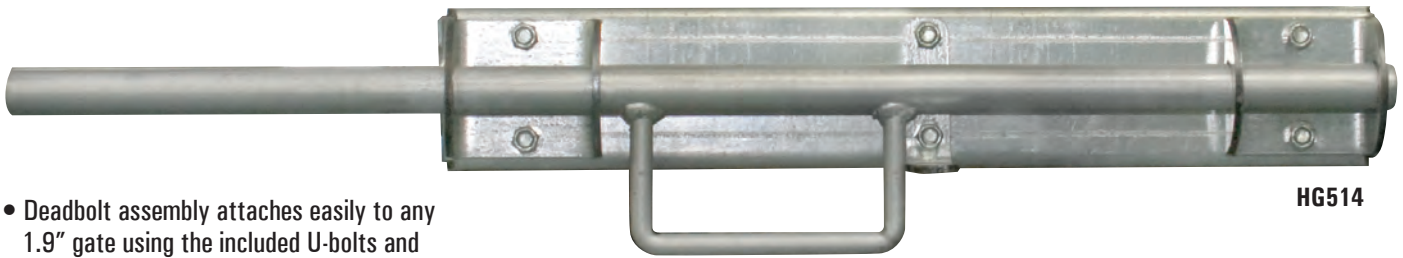
HGF325

HGF350

Part#	Description
Gate Latches	
HP40W	Wall Latch, Self Catching, HDG
HG46	Peg, Bolt-On for 2" Gates, Silver Powder Coat
HG47	Peg, Bolt-On for 2 1/4" Gates, fits Make-A-Gate, HDG
HP70	Wall Latch and Peg, Black Powder Coat, Packaged
Gate Latch Mounting Options	
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 7/8" or 4" Post, Painted Silver, w/Hrdwr

⚠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.

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

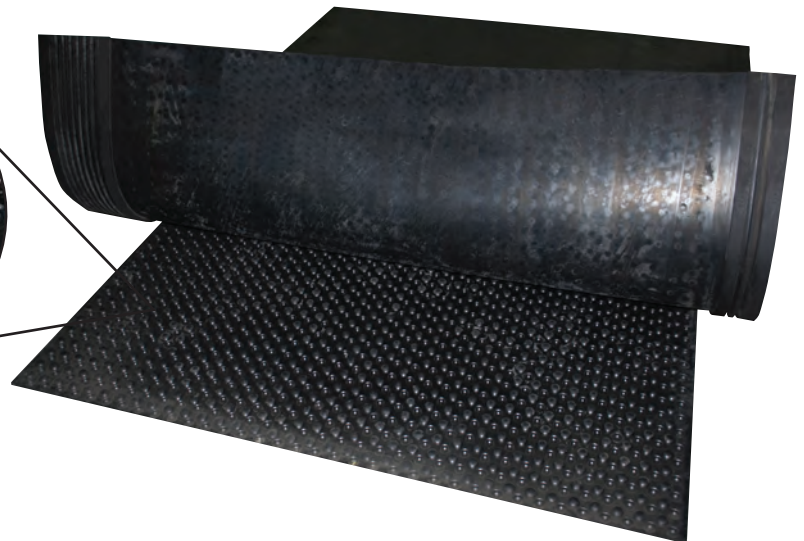
Dimensions	
Overall bracket height	8"
Overall bracket and wheel height	10"

⚠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.

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.

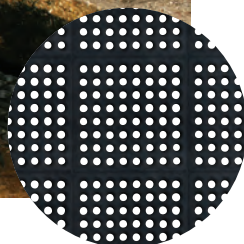
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Durable
Easy installation
Comfortable

DOUBLE DOME COMFORT SYSTEM

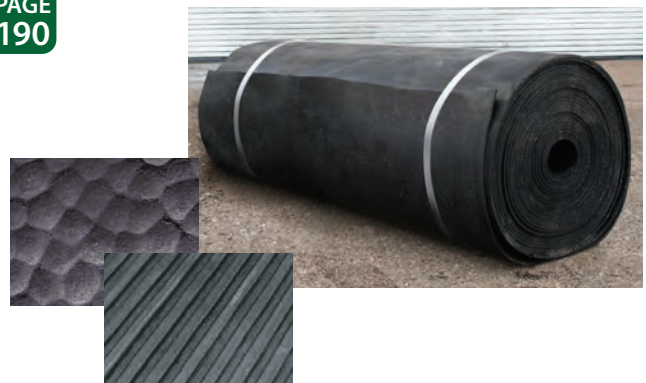
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CONTINUOUS INTERLOCK ANTI-FATIGUE MAT SYSTEM

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.

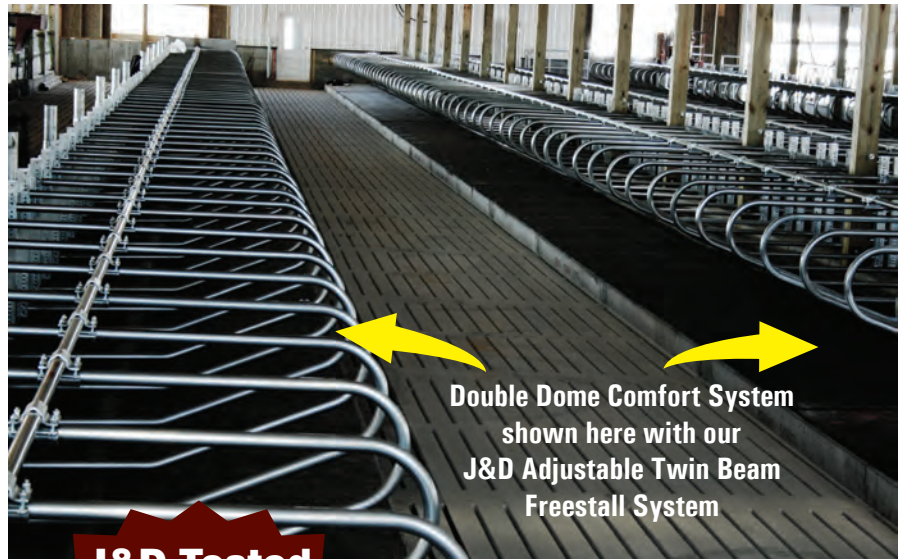
Double Dome Comfort System

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



Double Dome Comfort System shown here with our J&D Adjustable Twin Beam Freestall System



8" Wide Sure Step Lip



Cushioning Double Dome

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
Installation Components	
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

MATS & RUBBER

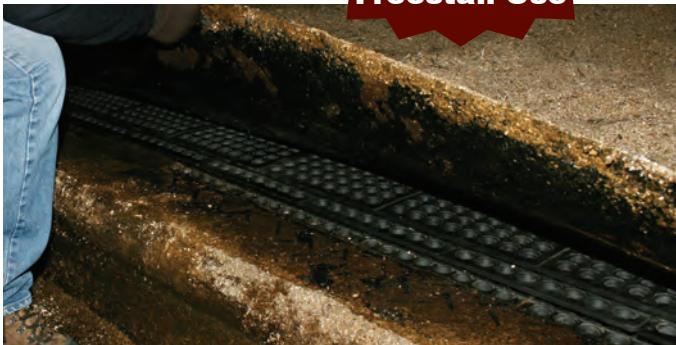
⚠️WARNING: This product can expose you to chemicals including vinyl chloride, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov/product.

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"
Replacement Parts	
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*



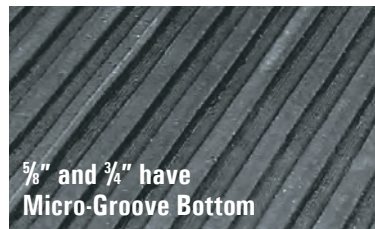
Concrete side of the alleyway

$\frac{3}{4}$ " Rolled Rubber recessed side of the alleyway

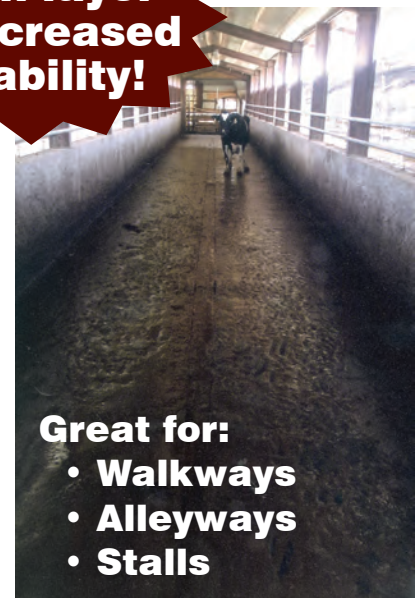
With mesh layer for increased durability!



Hammer Top



$\frac{5}{8}$ " and $\frac{3}{4}$ " have Micro-Groove Bottom



Great for:

- Walkways
- Alleyways
- Stalls

Alleyway Installation

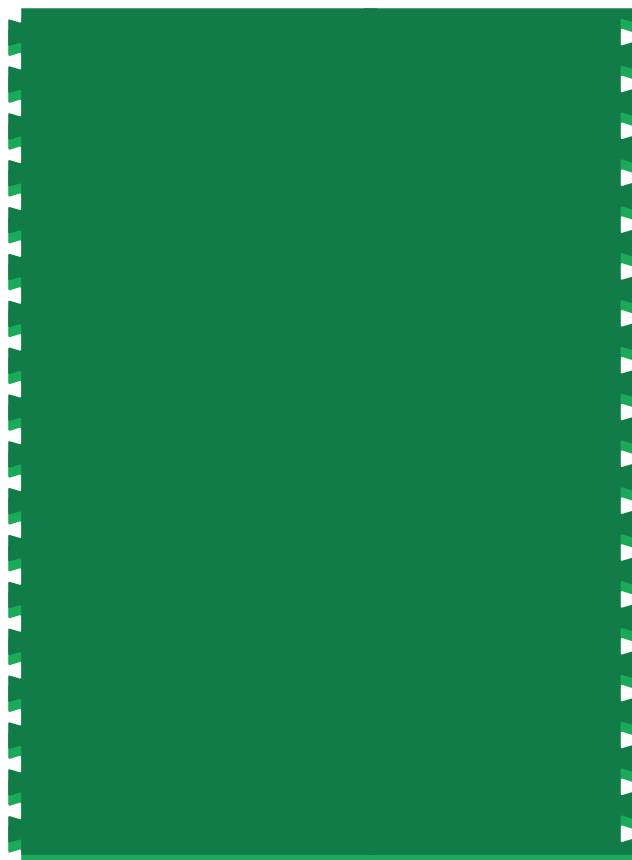
Part#	Description	Square Footage
10MM Thick		
SDR1065	Rolled Rubber, 10mm Thick, 65"W x 100'L, w/Mesh Inlay	542
SDR1065-50	Rolled Rubber, 10mm Thick, 65"W x 50'L, w/Mesh Inlay	271
$\frac{5}{8}$" Thick		
SDR584M	Rolled Rubber, $\frac{5}{8}$ " Thick, 4'W x 100'L, w/Mesh Inlay	400
SDR585M	Rolled Rubber, $\frac{5}{8}$ " 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
$\frac{3}{4}$" Thick		
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
Installation Hardware		
HD10225	Anchor, Split Drive $\frac{1}{4}$ " x 3"	
HD10224	Washer, Fender $\frac{3}{8}$ " x 1 $\frac{1}{2}$ " OD	



Seamless Rolls

Mighty Mat™

J&D Manufacturing's Mighty Mat is a special mix of EVA which provides a high quality and economical cow comfort mat. With its closed cell design, this mat will not absorb moisture and is 100% waterproof. The special texture improves stability. The 1¼" thickness provides an excellent barrier between the animal and concrete. For quick and easy installation, the Mighty Mat is interlocking for continuous runs to save you money on labor.



Features

- Economically priced
- Durable
- 100% waterproof
- 1¼" thickness
- Interlocking for continuous runs
- Each mat covers 48"
- Quick and easy installation
- Helps cut bedding costs
- Special texture improves stability
- **1 Year Replacement Warranty**
covers normal freestall use*
- **6 Year Prorated Warranty**
covers normal freestall use*



**The Mighty Mat is not recommended nor covered under warranty when (a) used for tie stall applications or (b) used or stored in sunlight.*

Mighty Mat

Part #	Size	Thickness	Weight
SDP4865G	48" x 65"	1¼"	40 pounds

Mighty Mat Installation Components

Part #	Description
PP10802	Hold Down, 1" x 1½" x 12' Black Poly
HD10326	Anchor, Permagrip ¼" x 2½"
MC13645	Expansion Joint
HD10225	Split Nail Anchor, ¼" x 3"



J&D Tested, Cow Approved!

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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LED HIGH BAY STRIP LIGHTS

Energy efficient, no ballasts to replace or repair, IP65-Rated for indoor/outdoor use, over 37,000 lumens per fixture.

OTHER PRODUCTS

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

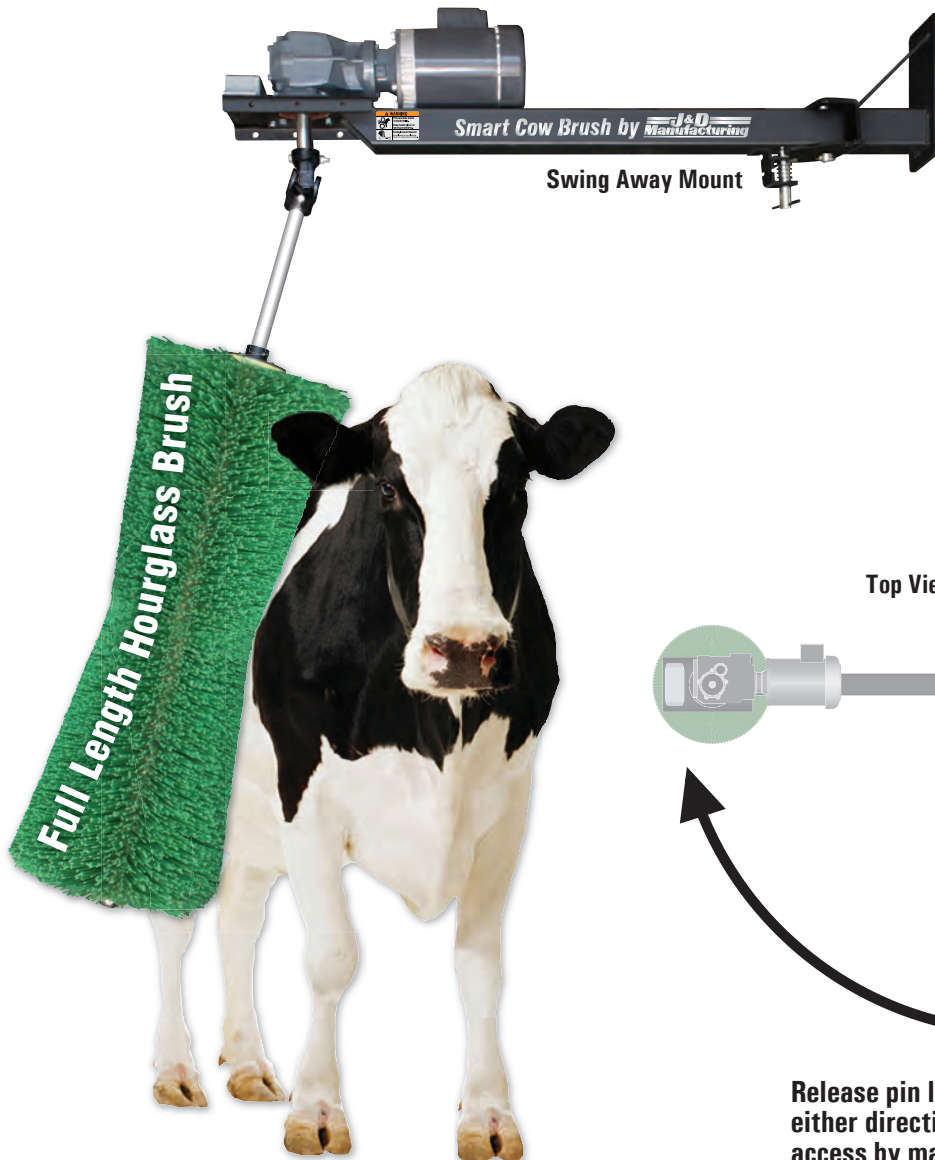
Highly Recommended by Veterinarians

Automated cow brushes do more than just scratch an itch they also:

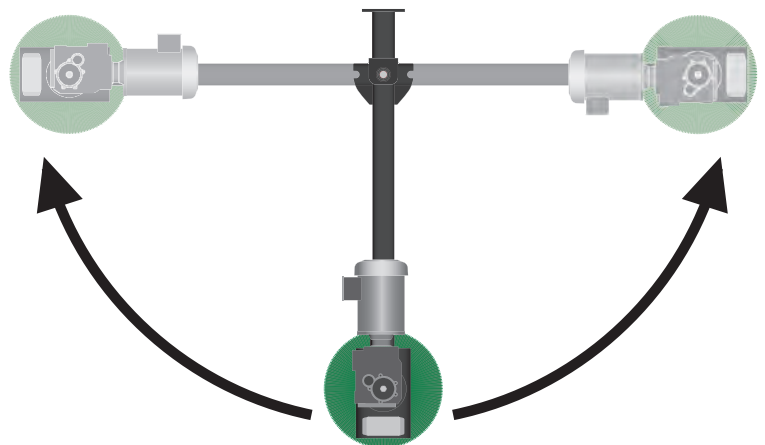
- increase circulation
- remove
 - filth
 - parasites
- decrease
 - boredom
 - stress
 - abnormal behaviors

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.

OTHER PRODUCTS

⚠ 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.

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

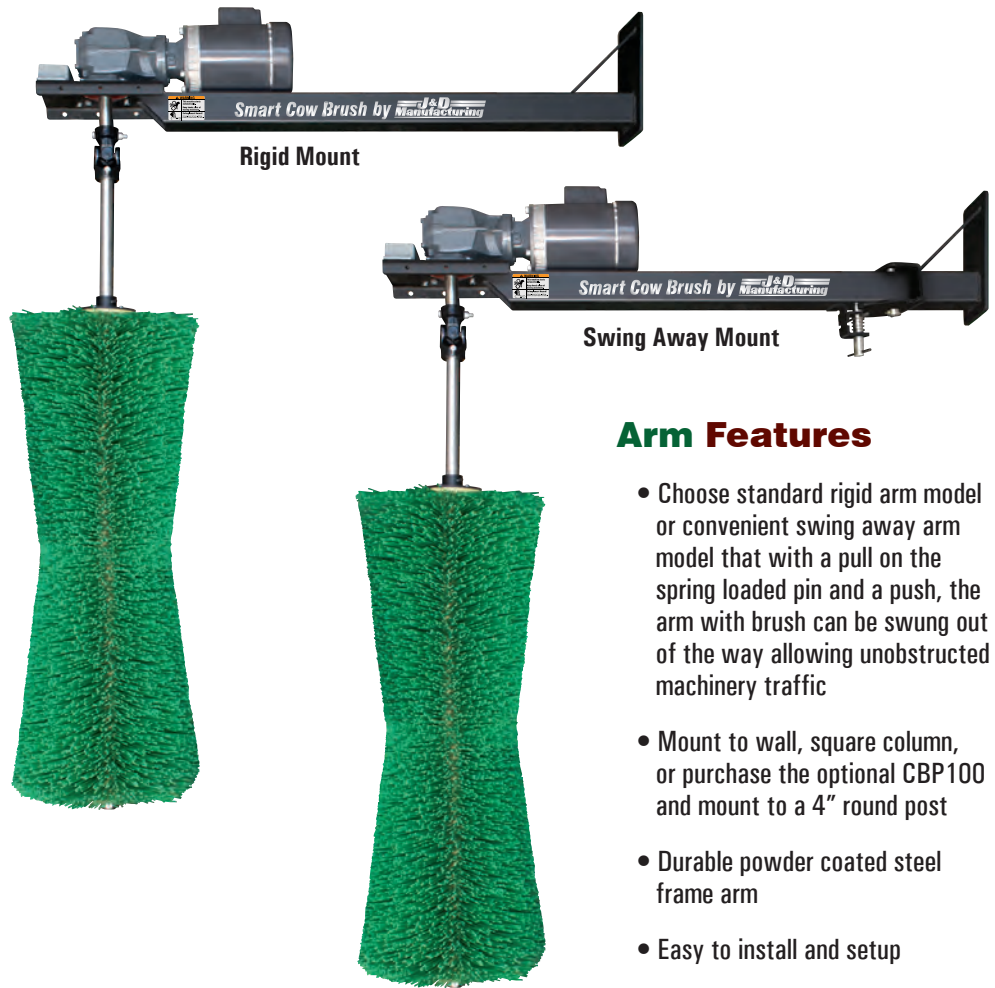
Control Features

- 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



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**



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
Rigid Mount							
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						
Swing Away Mount							
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						
Accessories & Replacement Parts							
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.



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.

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

64" Model with Optional After-Burner

Ease Of Operation:

1. Load Unit
2. Set Timer
3. Verify Ignition
4. Walk Away

Heavy-Duty Construction

- Constructed of 3/8"–1/2" reinforced steel for extended life
- Reinforced with 1" x 2" solid bar
- Continuous welding prevents weld breakage at critical points

⚠ 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.

OTHER PRODUCTS

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



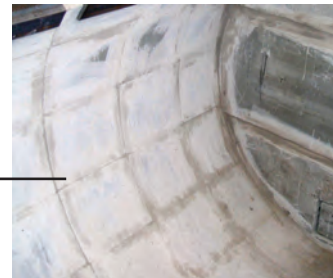
52" Model



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*)



⚠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.

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.



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
Grips	
SA141BL	Grip, 1" ID, for Curved Handle - Black
SA143BL	Grip, for SAF520-P - Black
Handle	
SA136Y	Handle, Straight, Yellow Fiberglass for SAF520-P (no grip)
Blades	
SAF511BL	Blade, Hoe, 14" Black Poly for SAF510-P
SAF512W	Blade, Hoe, 12" White Nylon for SAF520-P



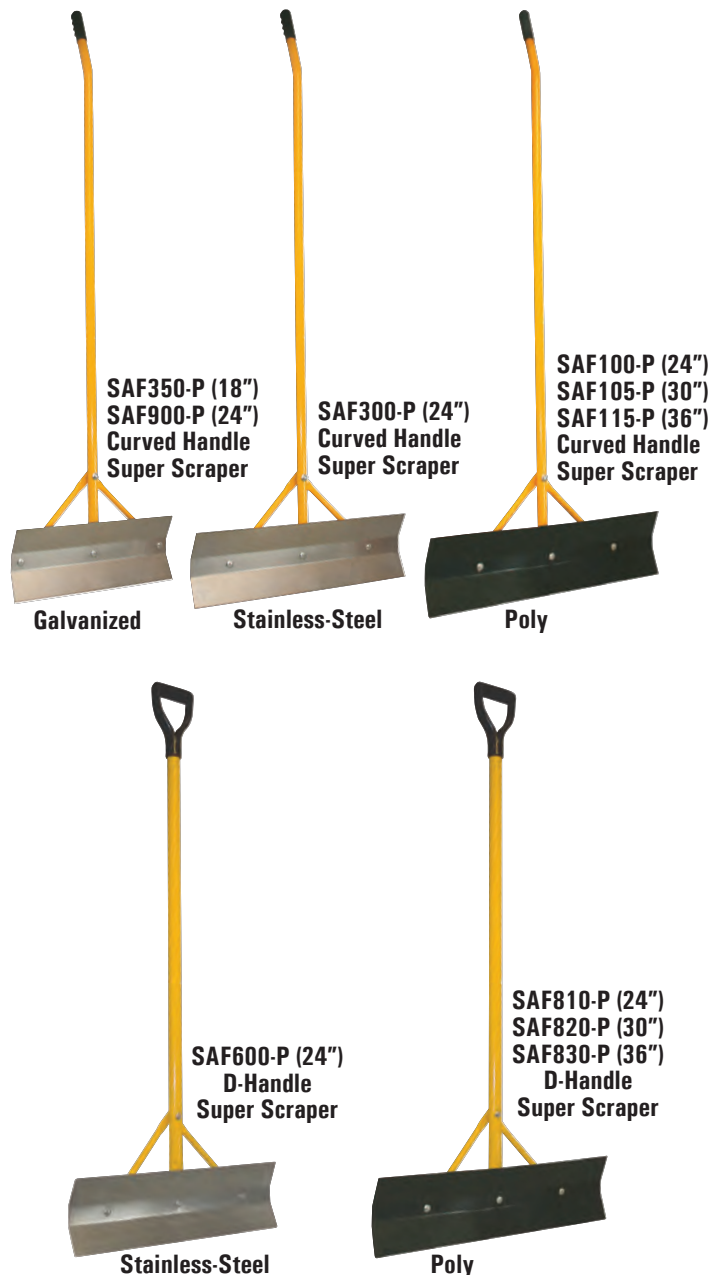
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Super Scrapers

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
Curved Handle	
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
D-Handle	
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
Curved Handle	
* 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
D-Handle	
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
Grips	
SA141BL	Grip, 1" ID, for Curved Handle - Black
SA142BL	Grip, 1¼" ID, D-Handle - Black
Handles with Grip	
SA135Y	Handle with Grip, Yellow Curved, 1" OD
SA153Y	Handle with Grip, Yellow Straight for D-Handle, 1¼" OD
Braces	
SA140Y	Braces, Set of 2 for Super Scrapers - Yellow
Blades	
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.

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
Curved Handle	
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
D-Handle	
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
Curved Handle	
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
D-Handle	
* 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
Grips	
SA141BL	Grip, 1" ID, for Curved Handle - Black
SA142BL	Grip, 1¼" ID, D-Handle - Black
Handles with Grip	
SA135Y	Handle with Grip, Yellow Curved - 1" OD
SA153Y	Handle with Grip, Yellow Straight for D-Handle - 1¼" OD
Braces	
SA140Y	Braces, Yellow, Set of 2 for Big Push, w/Hardware
Blades	
SA147BL	Blade, Big Push 24" Black Poly
SA166BL	Blade, Big Push 30" Black Poly
SA148BL	Blade, Big Push 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.

LED High Bay Strip Lights

STEP OUT OF THE DARK AGES

Features

- **Direct replacement for 1,000W metal halide lamp**
- Energy efficient! Save up to 60-80% in energy costs
- No ballasts to replace or repair
- IP65-Rated for indoor/outdoor use — full protection against dust particles and from low pressure washers from any direction
- Attached 10' cord with 3-prong plug pre-wired for 115 Volts (Unit and cord are dual voltage compatible. A certified electrician may remove 3-prong plug and using existing cord connect to 115-277V.)
- Type V light distribution produces the same light intensity at all angles
- Does not emit IR (infrared) radiation or create RF (radio frequency) interference that may hinder cell phones or two-way radios
- Safe for animal and human eyes (EN62471 tested)
- NSF Food Grade Approved
- **5 Year Warranty**
(Contact J&D for complete warranty details)



LEDHB300-24F-C
2 x 4' Frosted Lens

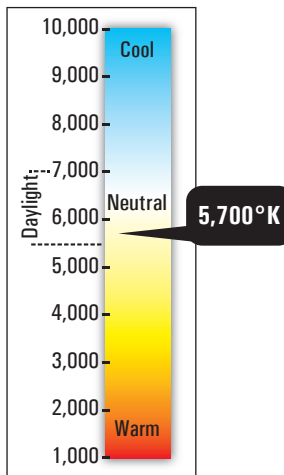


LEDHB300-24C-C
2 x 4' Clear Lens

**Keep Darkness
at Bay with our
37,000+
Lumen Lights**

Specifications

- Protection grade: IP65 for indoor/outdoor use
- Correlated Color Temperature (CCT): 5,700°K
- Color Rendering Index (CRI): > 82
- Power factor: > 0.98 @120v
- Operation temperature: -31°F to 122°F*
(-35°C to 50°C*)
- Lumens: LEDHB300-24C-C > 38,230
LEDHB300-24F-C > 37,280
- Lumens per Watt (lm/W): > 126
- Light distribution: Type V



Certifications

- UL approved (File # E359465)
- RoHS compliant
- FCC compliant
- CE conforming

* Refer to installation instructions regarding mounting requirements in areas of prolonged high ambient temperatures

Part#	Description	# of Strips	Volts~	Amp @ 120V	Hz	CCT °K	Lumens
LEDHB300-24C-C	LED High Bay, 300W Strip, Clear Lens, w/SS V Rod Hangers & 10' Cord/Plug~	4	110-277	2.8	50/60	5,700	38,230
LEDHB300-24F-C	LED High Bay, 300W Strip, Frosted Lens, w/SS V Rod Hangers & 10' Cord/Plug~	4	110-277	2.8	50/60	5,700	37,280

~ Unit and cord are dual voltage compatible. A certified electrician may remove 3-prong plug and using existing cord connect to 115-277V.

⚠ 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.

Hardware & Clamps

Control Rail Clamps



HF42



HF42A
HF42B
HF42AB



HF43*

Tee Clamps



HC20
HC23



HC25
HC252



HC27C

Miscellaneous Clamps



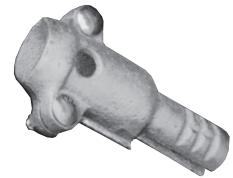
HC26-P



HC35



HC28



HC47

Feed Rail Brackets

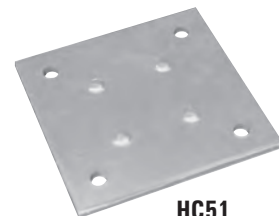


KS300



KS303-HDG
KS304

Other



HC51

Part#	Packaged Part #	Description
Control Rail Clamps		
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
Tee Clamps		
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"
Miscellaneous Clamps		
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
Feed Rail Brackets		
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
Other		
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

⚠ 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.

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

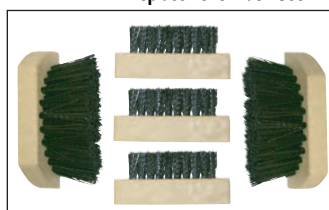
- Poly brush mounts won't rot or crack
- Side sweeps have poly bristles to gently but firmly clean debris off sides of the shoe
- Three rows of extra stiff nylon bottom bristles really hold up to the heavy pressure and scrubbing needed to clean the tread of the shoe
- Built-in shoe and boot scraper makes 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



Leave the dirt at the door NOT on the floor.



KAHDRB1 - Replacement Brush Set



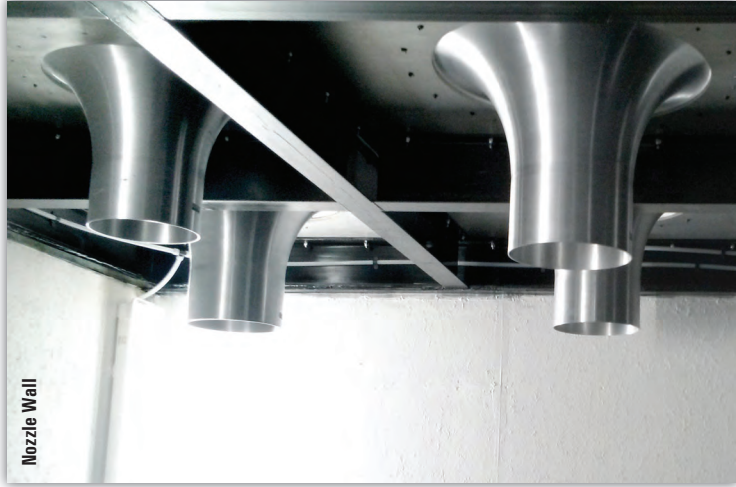
Part #	Description
KAHD1	Heavy Duty Commercial Model
KAHD3	Case, (3) KAHD1
KAHD6	Case, (6) KAHD1
Replacement Brush Sets	
KAHDRB1	Brush Set, Replacement for KAHD1
KAHDRB6	Case, (6) KAHDRB1 Brush Sets

OTHER PRODUCTS

⚠ 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.

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.



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.

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.

★ Experts choice



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

MP Amp information as documented on motor name plate

Table Data Mark-Up and Abbreviation Guide

<p>^ Variable speed fans require separate variable speed control to adjust fan speed</p> <p>Sp. Cont. Compat. (Speed Control Compatibility):</p> <p>A = 0-10v B = 4-20mA A/B = 0-10v & 4/20mA C = Triac D = VFD</p>	<p>Drive:</p> <p>T = Torque P = Permanent Magnet Direct D = Direct B = Belt</p> <p>Prop:</p> <p>CA = Cast Aluminum Alm = Aluminum Glv = Galvanized Gva = Galvalume Ply = Poly Nyl = Nylon SS = Stainless-Steel</p>	<p>Shutter:</p> <p>AS = Aluminum Shutter PS = Poly Shutter GD = Galvanized Damper PD = Poly Damper</p> <p>Cone/Hood:</p> <p>C = Cone H = Hood</p> <p>Cord:</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 % of 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	Cord	Test #			
	Sz	HP	Volts	Amps	Hz/Ph	Spd				CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM							Watt	P	P
Super Magnum																																	
Three Phase With Cone																																	
VSMF58DP5C403C	58"	4.0 kW	460	6.15	60	3	1Mar ^A	100%	600	52,377	16.7	51,133	15.5	50,002	14.6	48,271	13.3	46,715	12.3	46,715	12.3	0.91	P	5-Ply	PD	C	D	20230302-01					
								90%	540	47,030	20.0	45,765	18.5	44,192	16.9	42,168	15.2	40,292	13.8	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	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	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	17,168	16.6	0.59					20230302-05						
Magnum																																	
Single Phase With Cone																																	
VMF58DP3C221A	58"	2.2 kW	208-240	9.9-11.3	60	1	1Mar ^A	100%	600	46,099	22.4	44,189	20.6	42,652	18.4	40,563	16.4	38,330	14.8	38,330	14.8	0.87	P	3-Ply	PD	C	D	20200122-01					
								90%	540	41,313	26.5	39,172	23.5	36,910	20.8	34,724	18.3	32,341	16.1	32,341	16.1	0.83					20200127-03						
								80%	480	36,088	33.0	33,933	28.3	31,794	24.6	29,024	21.1	25,776	17.8	25,776	17.8	0.76					20200127-04						
								70%	420	31,915	42.4	29,056	34.6	26,314	28.0	20,683	20.7	16,847	16.7	16,847	16.7	0.58					20200127-05						
								60%	360	25,881	50.6	22,570	39.0	18,378	29.2	13,954	21.5	7,609	10.4	7,609	10.4	0.34					20200127-06						
VMF58DP3C221A-HR	58"	2.2 kW	208-240	9.9-11.3	60	1	1Mar ^A	100%	600	39,400	28.5	37,600	24.9	36,400	21.9	34,500	19.6	32,500	17.3	32,500	17.3	0.86	P	3-Ply	PD	C	D	21372					
								90%	540	35,200	34.7	33,700	30.0	32,200	25.8	29,700	22.0	27,300	19.0	27,300	19.0	0.81					21372						
								80%	482	31,800	43.9	29,800	35.3	27,400	30.2	24,600	24.4	21,500	19.9	21,500	19.9	0.72					21372						
								70%	422	27,500	55.5	25,200	43.3	22,400	33.8	18,500	25.4	14,200	19.0	14,200	19.0	0.56					21372						
								60%	362	21,800	57.6	18,400	42.7	14,500	30.8	9,000	20.2									21372							
VMF58DP3C221A-HE	58"	2.2 kW	208-240	9.9-11.3	60	1	1Mar ^A	100%	600	39,600	22.9	37,900	20.0	36,300	20.0	36,300	18.1	34,500	16.2	34,500	16.2	0.87	P	3-Ply	PD	C	D	21371					
								90%	544	36,800	31.2	34,900	27.1	33,200	23.7	31,400	20.7	28,900	18.0	28,900	18.0	0.83					21371						
								80%	479	32,900	40.7	30,800	33.2	28,700	27.7	26,100	23.3	23,100	19.7	23,100	19.7	0.75					21371						
								70%	422	28,600	50.3	26,100	39.7	23,700	31.4	19,800	24.8	16,000	19.2	16,000	19.2	0.61					21371						
								60%	363	22,900	53.9	19,400	40.7	15,700	30.5	9,600	19.1									21371							
Three Phase With Cone																																	
VMF58DP3C223B	58"	2.2 kW	190-208-240	10.9-11.7-10.1	60	3	1Mar ^A	100%	600	45,512	21.8	43,910	19.5	42,238	17.8	40,623	16.1	38,438	14.6	38,438	14.6	0.88	P	3-Ply	PD	C	D	20200228-01					
								90%	540	38,981	24.8	36,901	21.2	34,250	18.2	31,789	16.1	29,290	14.2	29,290	14.2	0.79					20200224-03						
								80%	480	34,032	30.0	31,768	25.5	28,777	21.4	25,919	18.5	22,924	16.1	22,924	16.1	0.72					20200224-04						
								70%	420	29,458	38.0	26,849	31.5	23,280	25.1	20,057	21.0									20200224-05							
								60%	360	25,064	49.8	21,512	37.9	17,465	29.5											20200224-06							
VMF58DP3C223B-HR	58"	2.2 kW	190-208-240	10.9-11.7-10.1	60	3	1Mar ^A	100%	600	40,000	28.4	38,500	24.7	36,900	21.8	34,900	19.4	33,100	17.0	33,100	17.0	0.86	P	3-Ply	PD	C	D	20347					
								90%	545	36,200	34.4	34,300	29.3	32,600	25.5	30,200	21.6	25,900	16.4	25,900	16.4	0.76					20347						
								80%	484	31,600	39.5	28,800	31.8	26,000	25.5	23,000	21.2	20,300	17.9	20,300	17.9	0.70					20347						
								70%	424	26,700	46.0	23,900	36.6	20,800	29.1	17,700	23.4	13,600	18.1	13,600	18.1	0.57					20347						
								60%	361	22,400	60.0	19,200	43.7	15,400	32.6	10,100	22.0									20347							

Red text is data based on testing performed by an accredited lab using ANSI/AMCA Standard 210-07.

Due to our continual effort to provide the best products available and adhere to market conditions: literature, products, prices and availability are subject to change without notice.



Part #	60 Hz Motor Label Data ONLY <small>(not from testing)</small>						Sp Cont	Compat	Speed % of Levels	RPM	0.00"SP		0.05"SP		0.10"SP		0.15"SP		0.20"SP		Air Flow Ratio	Prop	Shutter	Cone/Hood	Cord	Test #				
	Sz	HP	Volts	Amps	Hz/Ph	Spd					CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt							CFM	Watt	CFM	Watt
VMF58DP3C223B-HE	58"	2.2 kW	190-208-240	10.9-11.7-10.1	60 3	1Mar ^A	A	100%	600	37,600	32.1	35,800	27.7	34,100	23.5	32,300	21.0	29,000	17.6	0.81	3-Ply	PD	C	D	20346					
								80%	483	33,800	40.1	31,500	33.4	29,200	27.6	24,400	20.5	21,300	17.4	0.68					20346					
								70%	424	28,100	44.5	25,600	36.9	21,900	28.0	18,900	22.8	14,700	17.7	0.57					20346					
								60%	363	23,400	55.8	20,200	42.7	16,400	31.1	10,800	21.0								20346					
* VMF58DP3C223C	58"	2.2 kW	380-460	6.2-5.2	60 3	1Mar ^A	A	100%	600	45,041	23.1	43,010	20.3	41,385	18.2	38,924	16.3	36,782	14.6	0.86	3-Ply	PD	C	D	20200511-02					
								90%	540	40,666	27.8	38,377	23.9	36,165	21.4	33,529	18.4	30,626	15.9	0.80					20200428-04					
								80%	480	36,211	34.6	33,422	29.8	31,035	24.5	28,040	21.0	24,360	17.3	0.73					20200428-05					
								70%	420	31,550	43.3	29,058	35.6	25,440	29.1	21,452	22.2								20200429-02					
								60%	360	27,050	60.7	23,497	43.0	18,124	29.3										20200429-03					
VMF58DP3C223C-HR	58"	2.2 kW	380-460	6.2-5.2	60 3	1Mar ^A	A	100%	600	39,800	28.9	38,100	24.7	36,700	22.2	35,300	19.5	32,700	17.1	0.86	3-Ply	PD	D		20344					
								90%	547	35,800	33.9	34,300	29.2	32,200	25.3	30,400	21.3	25,400	16.3	0.74					20344					
								80%	478	31,000	38.5	28,600	31.3	25,800	25.1	20,200	17.9	0.71							20344					
								70%	422	26,700	45.8	24,000	36.7	20,700	28.6	17,500	23.1	13,500	17.8	0.56					20344					
								60%	358	22,200	57.4	19,200	42.7	15,200	32.1	10,300	21.8								20344					
VMF58DP3C223C-HE	58"	2.2 kW	380-460	6.2-5.2	60 3	1Mar ^A	A	100%	600	37,800	32.2	35,800	27.2	33,800	23.8	31,600	20.5	28,800	17.0	0.80	3-Ply	PD	C	D	20345					
								90%	541	33,500	40.5	31,200	32.9	29,000	27.5	24,500	20.6	21,200	17.1	0.68					20345					
								80%	478	27,800	43.7	25,000	34.7	21,600	27.3	18,100	21.9	13,800	16.6	0.55					20345					
								70%	423	23,400	53.5	20,000	41.2	16,200	30.6	11,000	20.7								20345					
								60%	362																20345					

The Force

Single Phase

No Cone

Aluminum Shutter

Standard Guard

VFF58PP3N221A	58"	2.24 kW	208-240	9.9-11.3	60 1	1Mar ^A	A	100%	606	35,989	17.3	34,557	15.7	33,337	14.6	32,120	13.5	30,787	12.6	0.89	3-Ply	AS	N	D	20210324-01
								90%	540	32,335	21.4	30,585	19.1	29,294	17.6	27,930	16.2	26,292	14.6	0.86					20210324-02
								80%	479	28,644	27.6	27,013	23.8	25,444	21.1	23,862	19.0	21,839	16.6	0.81					20210324-03
								70%	423	25,347	35.1	23,344	30.1	21,533	25.7	19,492	22.5	16,994	18.8	0.73					20210324-04

Three Phase

No Cone

Aluminum Shutter

Standard Guard

VFF58PP3N223B	58"	2.24 kW	190-208-240	10.9-11.7-10.1	60 3	1Mar ^A	A	100%	604	35,574	17.1	34,016	15.7	32,798	14.6	31,539	13.5	30,183	12.5	0.89	3-Ply	AS	N	D	20210323-01
								90%	542	31,830	21.1	30,198	19.4	28,844	17.5	27,541	16.0	25,829	14.5	0.86					20210323-02
								80%	480	28,441	26.9	26,775	23.9	25,475	21.5	23,464	19.0	21,814	17.0	0.81					20210323-03
								70%	417	25,105	36.4	23,270	31.0	21,371	26.6	19,219	22.6							20210323-04	
* VFF58PP3N223C	58"	2.24 kW	380-460	5.2-6.2	60 3	1Mar ^A	A	100%	606	35,634	16.4	34,119	15.2	32,783	14.1	31,614	13.1	30,371	12.2	0.89	3-Ply	AS	N	D	20210322-05
								90%	532	32,272	19.7	30,828	18.0	29,433	16.3	28,058	15.0	26,785	13.9	0.87					20210319-02
								80%	479	28,401	26.4	26,691	22.6	25,057	20.5	23,437	18.2	21,779	16.0	0.82					20210319-03
								70%	423	25,170	33.8	23,238	29.4	21,423	25.1	19,515	21.9	17,349	18.8	0.75					20210322-01

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Part #	60 Hz Motor Label Data ONLY <small>(not from testing)</small>				S ^g 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	CFM	Watt	CFM	Watt							CFM	Watt		
Louvers with Mesh Guard																											
VFF58PP3L4223B	58"	2.24 kW	190-208-240	10.9-11.7-10.1	60	3	1Var ¹	A	100%	599	35,152; 16.4	33,708; 15.2	32,324; 14.1	30,930; 13.1	29,385; 12.1	0.87	P	3-Ply	AS	N	D	20230818-01					
									90%	540	31,662; 20.2	30,069; 18.4	28,427; 16.6	26,805; 15.2	25,140; 13.8	0.84						20230818-02					
									80%	480	28,293; 25.4	26,396; 22.4	24,586; 19.9	22,813; 17.8	20,770; 15.8	0.79						20230818-03					
									70%	420	24,532; 31.9	22,677; 27.8	20,542; 23.8	18,095; 20.1	14,993; 16.6	0.66						20230818-04					
VFF58PP3L4223C	58"	2.24 kW	380-460	5.2-6.2	60	3	1Var ¹	A	100%	600	35,300; 16.5	33,739; 15.2	32,398; 14.1	30,821; 12.9	29,225; 11.9	0.87	P	3-Ply	AS	N	D	20230816-02					
									90%	540	32,009; 20.3	30,296; 18.4	28,633; 16.6	27,060; 15.2	25,066; 13.6	0.83						20230817-01					
									80%	480	28,314; 25.0	26,626; 22.3	24,731; 19.7	22,594; 17.3	20,258; 15.1	0.76						20230817-02					
									70%	420	24,577; 31.5	22,750; 27.4	20,557; 23.4	18,149; 20.0	14,968; 16.3	0.66						20230817-03					

Mega Direct Drive

Three Phase Wired for 480V

With 1-Piece Cone (for 3-piece cone, add H after C in part #)

Aluminum Shutter

VMDA72P5C43C	72"	4.0 kW	460	6.15	60	3	1Var ¹	A	100%	450	59,594; 18.2	57,603; 16.7	55,505; 15.3	53,460; 14.1	51,268; 13.1	0.89	P	5-Ply	AS	C	D	20221012-01
									90%	405	53,545; 21.8	51,511; 19.7	49,124; 17.9	46,661; 16.2	43,806; 14.6	0.85						20221012-02
									80%	360	47,333; 26.6	44,983; 23.6	42,263; 20.8	39,064; 18.2	35,069; 15.6	0.78						20221012-03
									70%	315	40,715; 32.5	37,873; 27.9	34,659; 24.0	30,720; 20.1	24,768; 15.8	0.65						20221012-04
									60%	270	33,356; 39.0	30,150; 32.4	26,238; 26.3									20221012-05

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	1Var ¹	A/B		303	46,595; 25.6	44,100; 22.9	41,437; 20.4	38,036; 17.8	34,354; 15.4	0.78	T	5-Alm	AS	C		20181128-01
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Three Phase Wired for 480V

With Cone

Aluminum Shutter

VMTA72A5C33E-VFD480	72"	3	230/460	8.2/4.1	60	3	1Var ¹	A/B		303	46,595; 25.6	44,100; 22.9	41,437; 20.4	38,036; 17.8	34,354; 15.4	0.78	T	5-Alm	AS	C		20181128-01
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Mega Torque

Three Phase

With Cone

Aluminum Shutter

VMTA72A5C33E	72"	3	230/460	8.2/4.1	60	3	1			303	47,604; 25.5	45,355; 23.2	42,455; 20.7	39,068; 18.2	35,055; 15.8	0.77	T	5-Alm	AS	C		20170919-01
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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

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Part #	60 Hz Motor Label Data ONLY				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	Shutter	Cone/Hood	Cord	Test #				
	Sz	HP	Volts	Amps				NP	Hz	Ph	Spd	CFM	Watt	CFM	Watt	CFM	Watt							CFM	Watt	CFM	Watt
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																											
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																											
VSA55P3CPM221A-SL	55"	2.24 kW	208-240	9.9-11.3	60	1	1Mar ^A	600	37,300	16.4	36,100	15.1	35,000	13.8	33,600	12.9	32,500	12.0	0.90	P	3-Ply	AS	C	D	21376		
								540	33,300	20.8	32,100	18.7	30,900	16.8	29,300	15.4	27,800	13.9	0.87						21376		
								480	29,600	26.2	28,200	23.0	26,800	20.4	25,000	17.8	23,300	16.0	0.83						21376		
								420	26,000	34.2	24,200	28.7	22,400	24.5	20,400	20.9	17,600	17.3	0.73						21376		
								360	21,600	42.1	19,700	34.1	17,500	28.1											21376		
Poly Shutter																											
VSP55P3CPM221A-SL	55"	2.24 kW	208-240	9.9-11.3	60	1	1Mar ^A	600	35,900	14.9	34,900	13.9	34,000	12.9	32,700	11.8	31,500	11.1	0.90	P	3-Ply	PS	C	D	21375		
								540	32,300	18.9	30,900	17.0	29,600	15.5	28,300	14.1	26,600	12.9	0.86						21375		
								480	28,600	23.6	27,200	21.0	25,600	18.7	23,800	16.6	21,800	14.7	0.80						21375		
								420	24,600	29.4	23,000	25.6	21,100	22.1	18,600	18.6	15,500	15.0	0.67						21375		
								360	20,800	39.3	18,400	30.9	15,400	24.6											21375		
Three Phase																											
With Cone																											
Aluminum Shutter																											
VSA55P3CPM223B-SL	55"	2.24 kW	190-208-240	10.9-11.7-10.1	60	3	1Mar ^A	600	37,100	16.5	36,100	15.2	34,700	14.0	33,600	13.0	32,400	12.0	0.90	P	3-Ply	AS	C	D	21373		
								540	33,200	20.6	32,100	18.5	30,900	16.9	29,400	15.2	27,800	13.9	0.87						21373		
								480	29,500	26.3	28,200	23.3	26,500	20.3	25,100	18.3	23,300	16.1	0.83						21373		
								420	25,800	33.5	24,100	28.5	22,400	24.6	20,300	21.1	17,700	17.3	0.73						21373		
								360	21,900	43.5	19,800	35.4	17,500	28.5	13,800	21.4									21373		

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Part #	60 Hz Motor Label Data ONLY						Speed % or Levels	RPM	0.00"SP		0.05"SP		0.10"SP		0.15"SP		0.20"SP		Air Flow Ratio	Prop	Shutter	Cone/Hood	Cord	Test #		
	Sz	HP	Volts	Amps	Hz/Ph	Spd			Cont.	A	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt							CFM	Watt
★ VSA5P3CPM223C-SL	55"	2.24	380/460	6.2/5.2	60	3	1/Nar ^A	100%	600	35,702	18.0	34,403	16.4	33,016	15.2	31,690	13.9	30,278	12.8	0.88	AS	C	D	20210309-01		
								90%	540	32,169	22.3	30,688	20.1	29,233	18.1	27,665	16.5	26,290	14.8	0.86				20210310-01		
								80%	480	28,407	28.5	26,875	24.5	25,362	21.4	23,553	19.2	21,751	17.0	0.81				20210310-02		
								70%	420	24,955	36.2	23,162	30.4	21,235	26.0	19,176	21.8	16,431	18.0	0.71				20210310-03		
							60%	360	21,396	48.0	19,136	37.7	16,674	30.1	13,426	23.6								20210310-04		

Poly Shutter

VSP5P3CPM223B-SL	55"	2.24	190-208-240	10.9-11.7-	60	3	1/Nar ^A	100%	600	36,200	15.1	34,900	13.9	33,800	12.9	32,500	12.1	31,300	11.3	0.90	PS	C	D	21374
				10.1				90%	540	32,100	18.5	31,000	17.0	29,500	15.4	28,200	14.1	26,600	12.9	0.86				21374
								80%	480	28,500	23.5	26,900	20.7	25,400	18.5	23,400	16.3	21,500	14.6	0.80				21374
								70%	420	24,700	29.9	22,900	25.6	20,900	22.0	18,600	18.7	15,600	15.1	0.68				21374
VSP5P3CPM223C-SL	55"	2.24	380/460	6.2/5.2	60	3	1/Nar ^A	100%	600	30,921	19.8	29,739	17.7	28,352	16.1	27,026	14.6	25,729	13.4	0.87	PS	C	D	20210310-14
								90%	540	27,636	24.4	26,396	21.5	24,865	19.2	23,279	17.1	21,579	15.2	0.82				20210310-15
								80%	480	24,539	30.2	22,834	25.7	21,028	22.2	18,993	18.7	17,226	16.2	0.75				20210310-16
								70%	420	21,340	36.1	19,323	29.2	17,302	24.5	14,653	19.9	11,913	15.3	0.62				20210310-17
							60%	360	17,720	43.3	15,370	34.6	12,606	25.8									20210310-18	

Storm, 55" Torque Drive

Three Phase

With Cone

Aluminum Shutter

★ VMTA5G3C23-SL	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-GIV	AS	C	20180831-02
									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-GIV	PS	C	20180910-06

Storm

Single Phase

With Cone

Aluminum Shutter

★ VSA5G3C11E-SL	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-GIV	AS	C	20171025-07	
	VSA5A3C151-SL	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	20171030-03
		VSA5G3C151-SL	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-GIV	AS	C	20171026-01
	VSA5A3C21-SL	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
		VSA5G3C21-SL	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-GIV	AS	C	20170831-03

Poly Shutter

★ VSP5G3C11E-SL	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-GIV	PS	C	20171025-08	
	VSP5A3C151-SL	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	20171030-04
		VSP5G3C151-SL	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-GIV	PS	C	20171027-02
	VSP5A3C21-SL	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
		VSP5G3C21-SL	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-GIV	PS	C	20170831-04

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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	Prop Drive	Shutter	Cone/Hood	Cord	Test #		
	Sz	HP	Volts	Amps	Hz/Ph				Sp	Compat.	Levels	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt							CFM	Watt
Three Phase																															
With Cone																															
Aluminum Shutter																															
VSA55A3C153-SL	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			20171030-02				
VSA55G3C153E-SL	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-GIV	AS	C			20171027-04				
VSA55A3C23-SL	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				
VSA55A3C23E-SL	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				
VSA55G3C23-SL	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-GIV	AS	C			20171025-04				
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-GIV	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-GIV	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-GIV	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-GIV	PS	C			20171027-06				
Legend																															
Single Phase																															
With Cone																															
Aluminum Shutter																															
VLA36S3C11A-PM	36"	1	230	7.8	60	1	1Mar ^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	1Mar ^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	1Mar ^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			

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Part #	60 Hz Motor Label Data ONLY						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	Cord	Test #		
	Sz	HP	Volts	Amps	Hz/Ph	Spd				CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt							CFM	Watt
Poly Shutter																											
VLP36S3N11A-PM	36"	1	230	7.8	60	1	1Var ^A	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

Tornado

Single Phase

No Cone

Aluminum Shutter																											
VFA12A	12"	1/10	115/230	1.42/0.77	60	1	1Var ^A	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	1Var ^A	C	1,700	1,255	7.4	1,162	6.0	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-Giv	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-Nyl	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-Giv	AS	N			20191206-02

Poly Shutter

VFP12A	12"	1/10	115/230	1.42/0.77	60	1	1Var ^A	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
VFP12P	12"	1/8	115/230	3.8/1.9	60	1	1Var ^A	C	1,700	1,147	6.8	657	4.3	546	3.4	467	2.8	406	2.4	0.62	D	3-Ply	PS	N			20161101-01
VFP16A	16"	1/8	115/230	3.8/1.9	60	1	1		1,700	2,403	9.7	2,286	9.0	2,169	8.3	2,038	7.6	1,881	6.9	0.82	D	3-Alm	PS	N			20170404-04
VFP16P	16"	1/8	115/230	3.8/1.9	60	1	1		1,700	2,533	8.8	2,326	8.2	2,087	7.6	1,599	6.3	1,388	5.3	0.60	D	3-Ply	PS	N			20170404-02
VFP20P-GS	20"	1/8	115/230	4.0/2.0	60	1	1		1,700	4,287	9.1	4,049	8.5	3,798	8.0	3,518	7.5	3,154	7.0	0.78	D	3-Ply	PS	N			20181106-04
VFP24P-GS	24"	1/2	115/230	5.6/2.8	60	1	1		1,725	5,739	10.3	5,264	9.4	4,867	8.8	4,306	8.0	3,577	6.8	0.68	D	2-Ply	PS	N			20180628-01
VFP24A-GS	24"	1/2	115/230	5.6/2.8	60	1	1		1,725	5,576	12.2	5,380	11.3	5,192	10.5	4,965	9.7	4,748	8.9	0.88	D	3-Alm	PS	N			20180823-01
VFP36G-GS	36"	1/2	115/230	6.1/3.09	60	1	1		825	9,001	17.4	7,927	14.9	7,068	12.9	6,158	10.9	5,230	8.9	0.66	D	3-Giv	PS	N			20181213-05
VFP36N-GS	36"	1/2	115/230	6.1/3.09	60	1	1		825	9,451	16.4	8,461	14.4	7,503	12.7	6,513	10.9	5,276	8.9	0.62	D	2-Nyl	PS	N			20181213-01

With Cone

Aluminum Shutter																											
VFA20PC-GS	20"	1/8	115/230	4.0/2.0	60	1	1		1,700	5,090	11.2	4,847	10.5	4,564	9.8	4,317	9.1	4,041	8.5	0.83	D	3-Ply	AS	C			20181106-02
VFA24PC-GS	24"	1/2	115/230	5.6/2.8	60	1	1		1,725	7,396	13.2	6,989	12.5	6,437	11.6	5,930	10.7	5,358	9.6	0.77	D	2-Ply	AS	C			20180703-01
VFA24AC-GS	24"	1/2	115/230	5.6/2.8	60	1	1		1,725	6,156	15.4	5,952	14.2	5,774	13.1	5,548	12.0	5,350	11.0	0.90	D	3-Alm	AS	C			20181221-01
VFA36GC-GS	36"	1/2	115/230	6.1/3.09	60	1	1		825	9,857	20.0	9,121	18.0	8,295	15.9	7,063	13.3	5,447	9.6	0.60	D	3-Giv	AS	C			20181109-06
VFA36NC-GS	36"	1/2	115/230	6.1/3.09	60	1	1		825	10,596	19.3	9,929	17.6	9,100	15.8	7,848	13.3	5,870	9.9	0.59	D	2-Nyl	AS	C			20181109-02
VFA36SC-GS	36"	1/2	115/230	6.1/3.09	60	1	1		825	10,077	21.1	9,270	18.7	8,172	15.8	7,227	13.7	5,459	9.5	0.59	D	3-SS	AS	C			20181213-07
VFA50AC	50"	1	115/230	9.0/4.5	60	1	1		589	22,590	22.4	21,142	20.2	19,578	18.1	17,849	16.2	15,669	14.0	0.75	B	3-CA	AS	C			20191206-03
VFA50GC	50"	1	115/230	9.0/4.5	60	1	1		588	23,127	22.0	21,584	19.9	20,117	18.0	18,336	15.9	16,222	13.8	0.75	B	3-Giv	AS	C			20191206-04

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Part #	60 Hz Motor Label Data ONLY										0.00"SP		0.05"SP		0.10"SP		0.15"SP		0.20"SP		Air Flow Ratio	Prop	Shutter	Cone/Hood	Cord	Test #
	Sz	HP	Volts	Amps		Hz/Ph	Spd	Sp Cont.	Speed % of Levels	RPM	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt						
				NP	MP																					
VFA50AC2	50"	1	208-230	4.8/3.7	60	1	2		High	542	21,314	24.2	19,631	21.4	17,511	18.3	15,133	15.6	10,283	10.4	0.5	B	3-CA	AS	C	20200416-05
VFA50A62	50"	1	208-230	4.8/3.7	60	1	2		Low	356	13,618	29.8	10,402	21.4	3,962	7.5										20200416-06
VFA50GC2	50"	1	208-230	4.8/3.7	60	1	2		High	459	22,798	22.9	21,519	20.8	19,937	18.4	17,911	15.9	14,490	12.8	0.67	B	6-Giv	AS	C	20200416-07
									Low	303	15,045	33.8	12,309	25.1	5,665	10.1	1,761	2.7								20200416-08
									High	538	21,539	23.1	20,081	21.0	18,163	18.4	15,759	15.4	12,245	12.1	0.61	B	3-Giv	AS	C	20200416-03
									Low	360	13,691	29.2	10,967	22.1	4,112	7.6										20200416-04
Poly Shutter																										
VFP20PC-GS	20"	1/8	115/230	4.0/2.0	60	1	1			1,700	4,943	10.7	4,682	10.0	4,411	9.3	4,133	8.6	3,811	7.9	0.81	D	3-Ply	PS	C	20181106-01
VFP24PC-GS	24"	1/2	115/230	5.6/2.8	60	1	1			1,725	6,797	11.8	6,370	11.2	5,884	10.4	5,355	9.5	4,790	8.6	0.75	D	2-Ply	PS	C	20180703-03
VFP24AC-GS	24"	1/2	115/230	5.6/2.8	60	1	1			1,725	5,939	14.2	5,759	13.2	5,572	12.2	5,390	11.3	5,179	10.4	0.90	D	3-Alm	PS	C	20181221-04
VFP36GC-GS	36"	1/2	115/230	6.1/3.09	60	1	1			825	9,754	19.9	8,666	17.0	7,524	14.2	6,170	11.1	5,028	8.6	0.58	D	3-Giv	PS	C	20181109-05
VFP36NC-GS	36"	1/2	115/230	6.1/3.09	60	1	1			825	10,302	18.8	9,372	16.6	8,113	13.9	6,547	11.1	5,321	9.0	0.57	D	2-Nyl	PS	C	20181109-01
VFP36SC-GS	36"	1/2	115/230	6.1/3.09	60	1	1			825	9,775	20.4	8,760	17.5	7,533	14.3	6,285	11.3	5,159	8.8	0.59	D	3-SS	PS	C	20181213-08
VFP50AC	50"	1	115/230	9.0/4.5	60	1	1			587	21,667	21.0	20,053	18.9	18,111	16.6	15,663	14.1	12,656	11.1	0.63	B	3-CA	PS	C	20191206-09
VFP50GC	50"	1	115/230	9.0/4.5	60	1	1			587	21,943	20.2	20,521	18.4	18,722	16.3	16,320	14.0	13,520	11.3	0.66	B	3-Giv	PS	C	20191206-06
Three Phase																										
No Cone																										
Aluminum Shutter																										
VFA16A3	16"	1/8	230/460	1.24/0.62	60	3	1			1,720	2,556	11.5	2,457	10.7	2,356	9.9	2,262	9.3	2,156	8.6	0.88	D	3-Alm	AS	N	20170404-07
VFA16P3	16"	1/8	230/460	1.24/0.62	60	3	1			1,720	2,809	10.4	2,681	9.8	2,553	9.2	2,420	8.7	2,220	8.0	0.83	D	3-Ply	AS	N	20170404-05
VFA36G3-GS	36"	1/2	230/460	2.6/1.3	60	3	1			825	10,312	20.2	9,416	17.9	8,202	15.1	7,133	12.7	6,004	10.1	0.64	D	3-Giv	AS	N	20181206-02
VFA36N3-GS	36"	1/2	230/460	2.6/1.3	60	3	1			825	10,318	17.7	9,467	15.9	8,554	14.2	7,375	12.3	6,161	10.3	0.64	D	2-Nyl	AS	N	20181211-03
VFA50A3	50"	1	230/460	3.2/1.6	60	3	1			552	20,263	22.7	18,490	20.3	16,654	17.9	14,522	15.5	10,935	11.6	0.59	B	3-CA	AS	N	20160713-01
Poly Shutter																										
VFP16A3	16"	1/8	230/460	1.24/0.62	60	3	1			1,720	2,469	10.8	2,360	10.0	2,248	9.3	2,127	8.5	1,981	7.8	0.84	D	3-Alm	PS	N	20170404-08
VFP16P3	16"	1/8	230/460	1.24/0.62	60	3	1			1,720	2,618	9.7	2,463	9.2	2,268	8.5	1,958	7.7	1,503	6.2	0.61	D	3-Ply	PS	N	20170404-06
VFP36G3-GS	36"	1/2	230/460	2.6/1.3	60	3	1			825	9,683	18.5	8,677	16.0	7,701	13.7	6,785	11.5	5,784	9.3	0.67	D	3-Giv	PS	N	20181211-05
VFP36N3-GS	36"	1/2	230/460	2.6/1.3	60	3	1			825	9,780	16.8	8,882	15.0	7,859	13.2	6,839	11.4	5,603	9.4	0.63	D	2-Nyl	PS	N	20181211-04
VFP50G3	50"	1	230/460	3.2/1.6	60	3	1			546	19,780	21.3	17,939	18.7	15,567	16.0	12,496	12.9	10,098	10.1	0.6	B	3-Giv	PS	N	20200416-09
With Cone																										
Aluminum Shutter																										
VFA24AC3	24"	1/2	230/460	1.72/0.86	60	3	1			1,720	5,846	17.3	5,579	15.8	5,267	14.2	4,932	12.7	4,465	11.1	0.80	D	3-Alm	AS	C	20161206-03
VFA36GC3-GS	36"	1/2	230/460	2.6/1.3	60	3	1			825	11,228	22.9	10,427	20.2	9,694	18.0	8,480	15.2	6,758	11.4	0.65	D	3-Giv	AS	C	20181206-02
VFA36NC3-GSE	36"	1/2	230/460	2.6/1.3	60	3	1			825	10,681	22.0	9,901	19.7	9,114	17.5	7,687	14.4	5,817	10.8	0.59	D	2-Nyl	AS	C	20181207-02
VFA36NC3-GSH	36"	1/2	230/460	2.6/1.3	60	3	1			825	11,436	20.9	10,714	18.9	9,807	16.7	8,703	14.5	6,838	11.4	0.64	D	2-Nyl	AS	C	20181207-03
VFA36SC3-GS	36"	1/2	230/460	2.6/1.3	60	3	1			825	10,158	24.8	9,359	21.8	8,396	18.6	7,068	15.0	5,539	10.8	0.59	D	3-SS	AS	C	20181213-10
VFA50AC3	50"	1	230/460	3.2/1.6	60	3	1			823	22,083	26.8	20,239	23.4	18,468	20.5	15,780	16.9	12,204	13.0	0.60	B	3-CA	AS	C	20160708-07
VFA50GC3	50"	1	230/460	3.2/1.6	60	3	1			808	21,618	26.7	19,813	23.2	18,170	20.5	15,822	17.2	12,101	13.0	0.61	B	3-Giv	AS	C	20160712-02
Poly Shutter																										
VFP24PC3	24"	1/2	230/460	1.72/0.86	60	3	1			1,720	6,206	12.3	5,919	11.7	5,626	11.0	5,368	10.5	4,871	9.7	0.82	D	4-Ply	PS	C	20161206-05
VFP36GC3-GS	36"	1/2	230/460	2.6/1.3	60	3	1			825	10,746	21.4	9,925	18.9	8,664	15.7	7,170	12.2	5,747	9.1	0.58	D	3-Giv	PS	C	20181206-01
VFP36NC3-GSE	36"	1/2	230/460	2.6/1.3	60	3	1			825	10,355	20.7	9,354	18.0	8,112	15.2	6,507	12.0	5,218	9.6	0.56	D	2-Nyl	PS	C	20181207-01

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

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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	Prop Drive	Shutter	Cone/Hood	Test #			
	Sz	HP	Volts	Amps	NP	Hz/Ph				Spd	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM						Watt	CFM	Watt
VFP36NC3-GSH	36"	1/2	230/460	2.6/1.3	60	3	1	825	10,995	19.7	10,142	17.6	8,858	14.9	7,234	11.9	5,640	9.3	0.56	D	2-Nyl	PS	C	20181207-04			
VFP36SC3-GS	36"	1/2	230/460	2.6/1.3	60	3	1	825	9,770	23.2	8,772	19.9	7,492	16.0	6,361	12.8	5,095	9.5	0.58	D	3-SS	PS	C	20181213-09			
VFP50AC3	50"	1	230/460	3.2/1.6	60	3	1	856	20,055	23.4	18,367	20.8	15,705	17.0	13,623	14.5	9,651	10.0	0.53	B	3-CA	PS	C	20160708-08			
VFP50GC3	50"	1	230/460	3.2/1.6	60	3	1	552	20,187	23.9	18,236	20.7	15,858	17.2	13,283	14.0	9,841	9.9	0.54	B	3-Giv	PS	C	20160712-01			

36" Light Trap System

Three Phase

With Cone

Poly Shutter

VFTP36NC3	36"	1	230/460	3.7/1.9	60	3	1	1,140	13,707	13.1	13,084	12.2	12,369	11.3	11,448	10.3	10,478	9.3	0.80	D	2-Nyl	PS	C	20180119-01
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Aluminum Shutter

VFTA36NC3	36"	1	230/460	3.7/1.9	60	3	1	1,140	14,368	14.1	13,782	13.2	13,340	12.5	12,695	11.7	11,973	10.8	0.87	D	2-Nyl	AS	C	20180119-03
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55" Light Trap System

Single Phase

With Cone

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	1Mar ^A	100%	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	20201209-08
								90%	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%	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%	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%	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	1Mar ^A	100%	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	20201209-01
								90%	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%	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%	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%	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-	60	3	1Mar ^A	100%	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	20201208-08
				10.1				90%	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%	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%	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%	16,853	34.9	14,367	28.1	11,738	21.8	8,205	14.8								20201208-12

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Part #	60 Hz Motor Label Data ONLY					Sp. Cont.	Compat.	Speed % of Level	RPM	0.00" SP		0.05" SP		0.10" SP		0.15" SP		0.20" SP		Air Flow Ratio	Prop	Shutter	Cone/Hood	Cord	Test #			
	Sz	HP	Volts	Amps	Hz/Ph					Spd	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM							Watt	CFM	Watt
VSTP5P3CPM223C-SL	55"	2.2 kW	380-460	6.2-5.2	60 3	1/Nar ^A	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	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			
VSTP5P3CPM403C-SL	55"	4.0 kW	460	6.15	60 3	1/Nar ^A	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	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																												
VSTA5A3C23-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	3-CA	AS	C		20180123-03			
VSTA5P3CPM223B-SL	55"	2.2 kW	190-208-240	10.9-11.7-10.1	60 3	1/Nar ^A	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	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			
VSTA5P3CPM223C-SL	55"	2.2 kW	380-460	6.2-5.2	60 3	1/Nar ^A	A	100%	617	30,449	16.5	29,112	15.0	27,889	13.8	26,839	12.8	25,437	11.8	0.87	3-Ply	AS	C	D	20201201-01			
								90%	550	28,073	18.2	27,009	16.8	25,647	15.2	24,349	13.9	22,933	12.7	0.85					20201201-03			
								80%	482	24,937	24.0	23,319	20.9	21,902	18.8	20,173	16.7	18,448	14.6	0.79					20201201-04			
								70%	420	21,721	30.7	19,855	26.0	18,265	22.5	16,156	19.1	13,441	15.7	0.68					20201201-05			
								60%	360	17,996	37.7	15,670	29.9	13,929	25.5	10,622	19.3								20201201-06			
VSTA5P3CPM403C-SL	55"	4.0 kW	460	6.15	60 3	1/Nar ^A	A	100%	600	36,762	13.3	35,538	12.6	34,256	11.8	32,979	11.2	31,637	10.6	0.89	3-Ply	AS	C	D	20230504-01			
								90%	541	33,133	16.3	31,788	15.2	30,333	14.2	28,910	13.3	27,310	12.3	0.86					20230504-02			
								80%	481	29,421	19.9	27,951	18.4	26,259	16.7	22,582	13.8	20,255	12.1	0.72					20230504-03			
								70%	420	25,501	24.5	23,803	22.0	21,828	19.6	19,577	17.1	16,431	14.6	0.69					20230504-04			
								60%	360	21,511	31.1	19,428	26.8	16,974	22.9	13,177	18.3								20230504-05			

Typhoon

Single Phase

No Cone

VNS24S	24"	1/2	115/230	4.8/2.4	60 1	1			1,698	4,908	13.8	4,667	12.6	4,431	11.5	4,207	10.6	3,979	9.7	0.85	3-Alm	AS	N		20200206-01
VNS30S850	30"	1/2	115/230	6.1/3.09	60 1	1			865	7,774	15.5	7,226	13.9	6,604	12.2	5,963	10.7	5,229	9.1	0.72	3-Alm	AS	N		20200212-01
VNS36D	36"	1/2	115/230	6.1/3.09	60 1	1			855	9,127	17.7	8,448	15.9	7,749	14.1	7,016	12.5	6,139	10.6	0.73	3-Giv	AS	N		20200214-01
VNS36S	36"	1/2	115/230	6.6/3.3	60 1	1			565	10,213	16.7	9,331	14.6	8,085	12.0	5,923	8.5	3,793	5.1	0.41	4-Giv	AS	N		20200302-01
VNS36S1	36"	1	115/230	9.0/4.5	60 1	1			739	13,851	13.8	13,070	12.8	12,371	11.8	11,501	10.8	10,380	9.5	0.79	4-Giv	AS	N		20200303-01
VNS42S1	42"	1	115/230	9.0/4.5	60 1	1			594	16,996	17.3	15,674	15.4	14,334	13.9	12,920	12.3	10,867	10.1	0.69	3-Giv	AS	N		20200309-01
VNS42S2	42"	1	230	9.0/4.5	60 1	2		High	587	16,563	16.7	15,420	15.2	14,157	13.6	12,701	11.9	10,550	9.6	0.68	3-Giv	AS	N		20200310-01
								Low	387	10,299	22.0	8,425	17.3	4,543	8.7										20200310-02
VNS50S	50"	1	115/230	9.0/4.5	60 1	1			592	21,257	20.4	19,785	18.4	18,279	16.5	16,743	14.8	15,112	13.2	0.76	3-Giv	AS	N		20200318-01
VNS50S-E	50"	1	115/230	9/4.5	60 1	1			521	18,793	25.6	17,168	22.5	15,435	19.8	13,462	16.8	9,597	11.7	0.56	3-Giv	AS	N		20200319-03

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Part #	60 Hz Motor Label Data ONLY										Sp Cont.	Speed % of 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	Spd	CFM	Watt	CFM/Watt				CFM	Watt	CFM/Watt	CFM	Watt	CFM/Watt	CFM	Watt	CFM/Watt	CFM						Watt
VNS50S2	50"	1	208-230	4.8/3.7		60 1 2	580	21,129	20.6	19,613	18.4	18,294	16.0	16,969	13.9	15,311	12.4	0.78	3-Giv	AS	N	20200319-08							
VNS50S62	50"	1	208-230	4.8/3.7		60 1 2	385	13,890	30.3	11,364	23.6	6,732	13.1	17,139	14.2	15,173	12.3	0.00	6-Giv	AS	N	20200319-09							
VNS50SCA	50"	1	115/230	9.0/4.5		60 1 1	589	21,347	19.5	19,921	17.6	18,411	15.9	16,579	14.0	14,710	12.3	0.74	3-CA	AS	N	20200319-07							
VNS50SCA-E	50"	1	115/230	9.0/4.5		60 1 1	521	18,819	25.7	17,140	22.6	15,600	20.0	13,507	17.0	9,735	12.0	0.57	3-CA	AS	N	20200319-01							
VNS50S6	50"	1	115/230	9.0/4.5		60 1 1	472	21,758	19.8	20,378	17.9	19,109	16.2	17,606	14.6	15,631	12.7	0.77	6-Giv	AS	N	20200319-05							
With Cone																													
VFS24CS	24"	1/2	115/230	4.8/2.4		60 1 1	1,745	5,222	14.5	5,005	13.4	4,784	12.2	4,565	11.2	4,290	10.0	0.86	3-Alim	AS	C	20200204-01							
VFS30CS850	30"	1/2	115/230	6.1/3.09		60 1 1	825	8,216	16.6	7,716	15.0	7,161	13.3	6,549	11.7	5,871	10.2	0.76	D 3-Alim	AS	C	20200210-01							
VFS36CD	36"	1/2	115/230	6.1/3.09		60 1 1	865	9,758	20.2	9,101	18.2	8,391	16.2	7,670	14.3	6,631	11.9	0.73	D 3-Giv	AS	C	20200212-05							
VFS36CS	36"	1/2	115/230	6.6/3.3		60 1 1	571	10,784	17.9	9,977	15.9	8,926	13.5	7,429	10.9	4,579	6.3	0.46	B 4-Giv	AS	C	20200214-05							
VFS36CS1	36"	1	115/230	9.0/4.5		60 1 1	737	14,369	15.0	13,708	13.9	12,995	12.7	12,359	11.8	11,522	10.8	0.84	B 4-Giv	AS	C	20200219-01							
VFS36CS1-E	36"	1	115/230	9.0/4.5		60 1 1	598	11,740	20.5	10,987	18.5	10,158	17.0	9,135	14.5	7,854	12.0	0.71	B 3-Giv	AS	C	20200219-03							
VFS42CS	42"	1	115/230	9.0/4.5		60 1 1	592	17,495	17.9	16,323	16.2	14,950	14.4	13,483	12.7	11,695	10.9	0.72	B 3-Giv	AS	C	20200306-01							
VFS50CS	50"	1	115/230	9.0/4.5		60 1 1	591	22,823	23.1	21,388	20.8	19,785	18.6	17,979	16.3	16,054	14.2	0.75	B 3-Giv	AS	C	20200311-01							
VFS50CSA	50"	1	115/230	9.0/4.5		60 1 1	590	22,889	21.8	21,194	19.5	19,674	17.5	17,766	15.4	15,440	13.2	0.73	B 3-CA	AS	C	20200311-03							
VFS50CS2	50"	1	230	3.7		60 1 2	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							
VFS50CS26	50"	1	230	3.7		60 1 2	387	15,049	33.6	12,324	25.7	6,493	12.3	17,978	15.6	15,665	13.3	0.74	B 6-Giv	AS	C	20200316-02							
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-Alim	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							
VNS503CSA	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							
VNS503CSA-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							
VNS50S36	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							
VFS50CS3-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							
VFS50CS6	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							
VFS503CSA	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							
VFS503CSA-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							

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Part #	60 Hz Motor Label Data ONLY				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	Cord	Test #				
	Sz	HP	Volts	Amps				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
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	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	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	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	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	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	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	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	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	1Mar ^A	D		860	9,425	19.6	8,626	17.2	7,788	15.0	6,896	12.9	5,909	10.7	5,909	10.7	0.69	D	3-Giv	AS	N	20220509-02				
VF36GG3	36"	1	230/460	3.2/1.6	60	3	1Mar ^A	D		611	10,167	17.4	9,105	15.2	7,974	12.9	6,194	9.9	5,153	7.9	5,153	7.9	0.57	B	4-Giv	AS	N	20230908-07				
VF503GG	50"	1	230/460	3.2/1.6	60	3	1Mar ^A	D		586	20,382	20.8	18,608	18.1	16,710	15.6	14,183	12.8	11,044	9.7	11,044	9.7	0.59	B	3-Giv	AS	N	20230908-01				
VF503GG6	50"	1	230/460	3.2/1.6	60	3	1Mar ^A	D		471	20,929	19.6	19,085	17.2	17,419	15.2	15,413	13.2	13,215	11.1	13,215	11.1	0.69	B	6-Giv	AS	N	20230908-04				
VF503GGCA	50"	1	230/460	3.2/1.6	60	3	1Mar ^A	D		586	20,732	20.0	18,994	18.1	17,208	16.0	14,864	13.5	11,329	10.3	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	1Mar ^A	D		570	29,280	16.0	27,656	14.6	26,084	13.4	24,359	12.2	22,599	11.0	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 Med 1,611 Low 1,505	683	8.3	569	6.8	464	5.5	346	4.0				0.10	D	3-Alm	AS	N	P	20200402-03	
VES12C	12"	1/8	115~	1.42	60	1	1Mar ^A	C		1,710	1,006	11.9	898	10.5	748	8.7	574	6.6	379	4.0	379	4.0	0.42	D	3-Alm	AS	N	P	20200401-01
VES161C	16"	1/8	115~	1.42	60	1	1Mar ^A	C		1,727	1,438	14.4	1,289	12.6	1,034	10.1	683	6.6	437	4.0	437	4.0	0.34	D	3-Alm	AS	N	P	20200403-01
VES201C	20"	1/8	115~	1.42	60	1	1Mar ^A	C		1,720	1,644	16.1	1,389	13.3	941	9.0	714	6.5	399	3.0	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	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	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	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	1Mar ^A	C		1,710	1,006	11.9	898	10.5	748	8.7	574	6.6	379	4.0	379	4.0	0.42	D	3-Alm	AS	N	20200401-01
VES161	16"	1/8	115/230	1.42/0.77	60	1	1Mar ^A	C		1,727	1,438	14.4	1,289	12.6	1,034	10.1	683	6.6	437	4.0	437	4.0	0.34	D	3-Alm	AS	N	20200403-01
VES201	20"	1/8	115/230	1.42/0.77	60	1	1Mar ^A	C		1,720	1,644	16.1	1,389	13.3	941	9.0	714	6.5	399	3.0	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	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	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	3,953	7.0	0.63	D	3-Alm	AS	N	20200325-01

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Part #	60 Hz Motor Label Data ONLY						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	Hz/Ph	Spd				CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt						CFM	Watt
Three Phase																										
Aluminum Shutter																										
VES203	20"	1/2	230/460	1.24/0.62	60 3	1Mar ^A	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	1Mar ^A	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	1Mar ^A	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	1Mar ^A	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																								
VPE512	12"	1/2	115	1.1	60 1	3		High 1,500 Med 1,350 Low 1,200	1,100	12.0	1,045													
VPE516	16"	1/2	115	1.5	60 1	3		High 1,500 Med 1,350 Low 1,200	2,950	15.0	2,800													
VPE520	20"	1/2	115	1.5	60 1	3		High 1,570 Med 1,400 Low 1,000	4,220	18.0	4,000													
VPE524	24"	1/2	115	1.8	60 1	2		High 1,200 Low 900	5,850	20.0	5,560													

Twister

Single Phase																								
VFT141130	12"	1/2	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-Alm	GD	N	
VFT141131	16"	1/2	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-Alm	GD	N	12654
VFT141132	20"	1/2	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-Alm	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-Alm	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-Alm	AS	N	20190509-01
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-Alm	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-Alm	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-Alm	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

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Part #	60 Hz Motor Label Data ONLY <small>(not from testing)</small>						Spd 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				Spd	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt	CFM						Watt	CFM	Watt
VF42GGLT1	42"	1/2	115/230	13.6/6.8	60	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-Giv	AS	N	20190426-07				
VF50GGLT1	50"	2	115/208-230	18/9	60	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-Giv	AS	N	20190430-12				
VF55GGLT1	55"	2	115/208-230	18.0/9.6-9.0	60	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-Giv	AS	N	20191211-02				
Three Phase																											
VF24DMLT3	24"	1/2	203/460	1.8/0.9	60	3	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	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				
VF36GGLT3	36"	1	230/460	3.2/1.6	60	3	754	12,297	11.4	11,655	10.6	11,044	9.9	9,720	8.4	0.83	B	4-Giv	AS	N	20190418-02						
VF42GGLT3	42"	1/2	230/460	4.5/2.2	60	3	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-Giv	AS	N	20190426-02				
VF50GGLT3	50"	2	208-230/460	6.2/3.1	60	3	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-Giv	AS	N	20190430-04				
VF55GGLT3	55"	2	208-230/460	6.2/3.1	60	3	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-Giv	AS	N	20200131-04				
* Ridge Fan																											
Three Phase																											
No Hood																											
Poly Shutter																											
VRFR24P13S	24"	1	230/460	3.2/1.6	60	3	1,750	7,013	6.8	6,759	6.6	6,540	6.3	6,328	6.1	6,066	5.9	0.90	D	4-Ply	PS	N	20170227-02				
With Hood																											
Poly Shutter																											
VRFR24P13HS	24"	1	230/460	3.2/1.6	60	3	1,750	6,551	6.3	6,314	6.1	6,124	5.9	5,883	5.7	5,668	5.5	0.90	D	4-Ply	PS	H	20170227-01				
* Pruden Polystainless Fan with Poly Weather Hood																											
Single Phase																											
Aluminum Shutter																											
PFPS12C	12"	1/3	115/230	3.8/1.9	60	1	1,750	1,281	6.8	1,165	6.2	1,033	5.4	866	4.5									20230703-02			
PFPS16D	16"	1/4	115/230	3.2/1.6	60	1	1,625			2,540	11.1																
PFPS20E	20"	1/4	115/230	3.2/1.6	60	1	1,625			3,320	14.1																
PFPS20G	20"	1/2	115/230	4.2/2.1	60	1	1,625			4,095	12.3																
PFPS20GG	20"	1/2	115/230	5.5/2.8	60	1	1,700			4,765	14.5																
PFPS24H	24"	1/3	115/230	3.8/1.9	60	1	1,075			5,210	14.9																
Pruden Polystainless Fan with Cone																											
Single Phase																											
With Cone																											
Aluminum Shutter																											
PFPS24C	24"	1/3	115/230	3.8/1.9	60	1	1,075			5,980	15.7																

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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	Shutter	Cord/Hood	Test #		
	Sz	HP	Volts	Amps	NP	Hz/Ph			Sp Cont.	Spd	CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt					CFM	Watt
											CFM	Watt	CFM	Watt	CFM	Watt	CFM	Watt					CFM	Watt
Pruden 24" Poly Pit Transition Fan																								
Single Phase																								
No Hood																								
Poly Shutter																								
PFFS24	24"	1/3	115/230~	3.8/1.9	60	1	1	1,131	4,760	11.4	4,426	10.6	3,885	9.6	2,678	7.1	2,057	5.2	0.46	D	4-Ply	PS	N	20170228-02
PFFS2412S	24"	1/2	115/230~	6.3/3.2	60	1	1	1,075	5,222	9.5	4,885	8.9	4,510	8.3	3,911	7.6	3,136	6.3	0.64	D	8-Ply	PS	N	20170228-04
With Hood																								
Poly Shutter																								
PFFS24WS	24"	1/3	115/230~	3.8/1.9	60	1	1	1,134	4,612	11.0	4,257	10.3	3,792	9.4	2,571	6.9	2,003	5.0	0.47	D	4-Ply	PS	H	20170228-01
PFFS2412WS	24"	1/2	115/230~	6.3/3.2	60	1	1	1,075	4,899	8.9	4,585	8.4	4,183	7.8	3,356	6.7	2,919	5.6	0.64	D	8-Ply	PS	H	20170228-03
Three Phase																								
No Hood																								
Poly Shutter																								
PFFS24312S	24"	1/2	230/460	1.8/ .9	60	3	1	1,720	5,405	10.3	5,157	9.7	4,918	9.2	4,625	8.7	4,335	8.2	0.84	D	8-Ply	PS	N	20170307-02
PFFS243S	24"	1	230/460	3.2/1.6	60	3	1	1,750	7,013	6.8	6,759	6.6	6,540	6.3	6,328	6.1	6,066	5.9	0.90	D	4-Ply	PS	N	20170227-02
With Hood																								
Poly Shutter																								
PFFS24312WS	24"	1/2	230/460	1.8/ .9	60	3	1	1,720	5,207	9.8	4,942	9.2	4,698	8.8	4,411	8.3	4,128	7.8	0.84	D	4-Ply	PS	H	20170307-01
PFFS243WS	24"	1	230/460	3.2/1.6	60	3	1	1,750	6,551	6.3	6,314	6.1	6,124	5.9	5,883	5.7	5,668	5.5	0.90	D	4-Ply	PS	H	20170227-01

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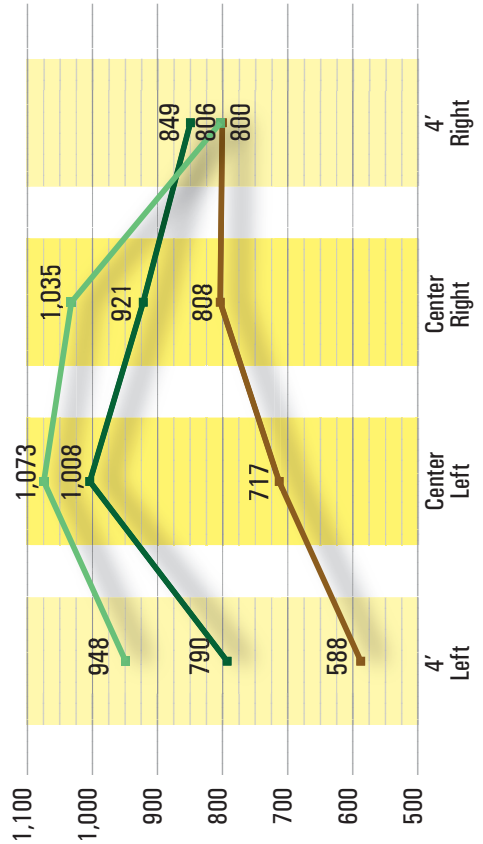
Why does J&D provide so much data?

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	1,008	921	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 Data Mark-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 ^{NP}	Hz														Ph	Spd
AirBlaster - 3 Louver Uni-Directional																				
Single Phase																				
VAB58L3P3221A-CK	58"	2.24 kW	208-240	9.9-11.3	60	1	1/Var [^]	A	100%		58.0	21.4	2.71	602	41,521	15.3	PM-DD	3-Ply	D	20200827-01
									90%		46.4	24.1	1.92	539	37,129	19.3				
									80%		36.6	27.1	1.35	480	32,971	24.4				
									70%		27.8	31.1	0.89	419	28,763	32.2				
									60%		20.7	36.8	0.56	358	24,795	44.1				
									50%		13.9	41.0	0.34	299	20,332	59.9				
									40%		9.1	48.1	0.19	240	16,421	87.0				
Three Phase																				
VAB58L3P3223B-CK	58"	2.24 kW	190-208-240	10.9-11.7-10.1	60	3	1/Var [^]	A	100%		57.3	21.7	2.64	602	41,265	15.6	PM-DD	3-Ply	D	20200827-04
									90%		45.3	24.0	1.89	537	36,703	19.5				
									80%		36.7	27.2	1.35	481	33,043	24.4				
									70%		28.2	31.4	0.90	421	28,941	32.2				
									60%		20.7	36.6	0.57	361	24,824	43.8				
									50%		14.4	42.7	0.34	302	20,704	61.4				
									40%		10.2	54.9	0.19	244	17,420	93.7				
VAB58L3P3223C-CK	58"	2.2 kW	380-460	6.2-5.2	60	3	1/Var [^]	A	100%		57.9	21.2	2.73	602	41,480	15.2	PM-DD	3-Ply	D	20200827-05
									90%		47.4	24.1	1.97	544	37,532	19.1				
									80%		36.3	26.4	1.37	479	32,855	23.9				
									70%		28.0	30.5	0.92	418	28,873	31.4				
									60%		20.5	35.1	0.59	358	24,714	42.2				
									50%		13.6	39.0	0.35	297	20,119	57.6				
									40%		9.4	45.3	0.21	244	16,688	80.6				
AirBlaster - 4 Louver Bi-Directional																				
Single Phase																				
VAB58L4P3221A-CK	58"	2.24 kW	208-240	9.9-11.3	60	1	1/Var [^]	A	100%		55.0	19.3	2.84	606	40,423	14.2	PM-DD	3-Ply	D	20200827-02
									90%		43.6	22.1	1.97	539	36,000	18.2				
									80%		34.2	24.9	1.38	479	31,888	23.2				
									70%		26.5	28.6	0.93	420	28,053	30.3				
									60%		19.2	33.1	0.58	359	23,905	41.2				
									50%		13.2	38.3	0.35	299	19,821	57.4				
									40%		8.3	42.9	0.19	243	15,722	81.1				

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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 ^{NP}	Hz	Ph												
Three Phase																		
VAB58L4P3223B-CK	58"	2.24 kW	190-208-240	10.9-11.7-10.1	60	3	1/Var [^]	A	54.3	19.5	2.78	607	40,156	14.4	PM-DD	3-Ply	D	20200827-03
VAB58L4P3223C-CK	58"	2.2 kW	380-460	6.2-5.2	60	3	1/Var [^]	A	56.6	21.2	2.66	598	41,004	15.4	PM-DD	3-Ply	D	20200827-06
PM Panel Fans - 50" , 55" , & 60"																		
Single Phase																		
VPX50P3PM221A	50"	2.2 kW	208-240	9.9-11.3	60	1	1/Var [^]	A	43.5	19.3	2.28	612	30,800	13.5	PM-DD	3-Ply	D	C22015 20200520-01
VPX55P3PM221A	55"	2.2 kW	208-240	9.9-11.3	60	1	1/Var [^]	A	53.4	20.5	2.61	609	37,400	14.4	PM-DD	3-Ply	D	C22016 20200518-04
VPX60P3PM221A	60"	2.2 kW	208-240	9.9-11.3	60	1	1/Var [^]	A	53.4	23.0	2.32	606	40,800	17.6	PM-DD	3-Ply	D	C22014 20200521-03

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Part #	SZ	HP	60 Hz Motor Label Data ONLY				Speed % or Level	Speed Control	FPM	Thrust (lbf)	Thrust Eff. Ratio	kW	RPM	Thrust CFM	Thrust CFM/Watt	Drive	Prop	Cord	Test #									
			Volts	Amps ^{NP}	Hz	Ph														Spd								
VPX50P3PM223B	50"	2.2 kW	190-208-240	10.9-11.7-10.1	60	3	1/Var^	A	1,200	38.4	18.4	2.09	606	29,300	14.0	PM-DD	3-Ply	D	C20266 20200520-05									
										27.9	17.1	1.63	545	24,831	15.2													
										21.5	19.4	1.11	478	21,775	19.6													
										16.7	22.7	0.74	419	19,229	26.0													
										12.4	26.1	0.48	360	16,564	34.8													
VPX50P3PM223C	50"	2.2 kW	380-460	6.2-5.2	60	3	1/Var^	A	1,190	39.1	19.0	2.06	606	29,600	14.3	PM-DD	3-Ply	D	C20263 20200505-02									
										27.9	17.2	1.62	539	24,818	15.3													
										22.1	19.4	1.14	481	22,101	19.4													
										17.0	22.1	0.77	419	19,369	25.2													
										12.4	25.2	0.49	359	16,573	33.5													
VPX55P3PM223B	55"	2.2 kW	190-208-240	10.9-11.7-10.1	60	3	1/Var^	A	1,300	52.7	17.7	2.97	604	37,500	12.6	PM-DD	3-Ply	D	C20258 20200518-01									
										32.3	19.0	1.70	540	29,391	17.3													
										25.5	21.4	1.19	480	26,091	21.9													
										19.9	24.6	0.81	421	23,047	28.6													
										14.9	28.6	0.52	362	19,947	38.4													
VPX55P3PM223C	55"	2.2 kW	380-460	6.2-5.2	60	3	1/Var^	A	1,200	50.4	18.3	2.76	587	36,800	13.3	PM-DD	3-Ply	D	C20261 20200501-01									
										31.4	19.7	1.60	539	28,971	18.1													
										24.9	22.1	1.13	478	25,806	22.9													
										19.3	25.0	0.77	419	22,723	29.4													
										14.4	29.3	0.49	359	19,628	39.9													
VPX60P3PM223B	60"	2.2 kW	190-208-240	10.9-11.7-10.1	60	3	1/Var^	A	1,290	51.1	22.6	2.26	605	40,300	17.8	PM-DD	3-Ply	D	C20251 20200521-01									
										33.6	20.5	1.64	539	32,667	19.9													
										26.5	23.1	1.15	479	29,036	25.3													
										20.5	26.4	0.78	419	25,532	32.9													
										15.2	30.7	0.49	359	21,970	44.5													
VPX60P3PM223C	60"	2.2 kW	380-460	6.2-5.2	60	3	1/Var^	A	1,310	50.6	22.0	2.30	603	40,100	17.4	PM-DD	3-Ply	D	C20249 20200521-05									
										33.1	19.9	1.67	543	32,455	19.5													
										25.8	22.3	1.15	478	28,620	24.8													
										20.2	25.5	0.79	420	25,320	32.0													
										14.7	29.2	0.50	359	21,637	43.0													

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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 ^{NP}	Hz	Ph											
50", 55", & 60" Panel Fans																	
Single Phase																	
VPX50GV31011	50"	1	115/230	9.0/4.5	60	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	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	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	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	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	1,150	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	1,080	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	1,020	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	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	1,260	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	1,190	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	1,030	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	1,070	44.5	21.0	2.12	495	37,500	17.7	Belt	3-Glv	C17516	
VPX60GV32011-E	60"	2	115/208-230	18/9.6-9.1	60	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	1,020	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	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	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	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	1,050	24.2	23.3	1.04	585	23,000	22.2	Belt	3-CA	C17488	
VPX50CA31531	50"	1.5	208-230/460	4.5/2.2	60	3	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	1,070	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	1,020	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	1,110	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	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	1,140	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	1,040	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	1,210	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	1,130	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	1,040	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	1,150	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	1,030	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	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	1,040	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	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 Level	Speed Control	Thrust (lbf)	Thrust Eff. Ratio	kW	RPM	Thrust CFM	Thrust CFM/Watt	Drive	Prop	Cord	Test #
			Volts	Amps ^{NP}	Hz	Ph												
24" & 36" Panel Fans																		
Single Phase																		
VP24	24"	1/2	115/230	4.8/2.4	60	1		1,320	16.5	0.35	1,701	5,450	15.4	Direct	3-Alt		C16428	
VP36D	36"	1/2	115/230	6.1/3.09	60	1		980	19.6	0.52	854	10,600	20.4	Direct	3-Glv		C18002	
VP36	36"	1/2	115/230	6.6/3.3	60	1		790	18.4	0.57	579	11,030	19.4	Belt	4-Glv		C08009	
VP361	36"	1	115/208-230	9.0/4.5	60	1		1,020	19.2	0.80	680	13,000	16.3	Belt	4-Glv		C18008	
Three Phase																		
VP243G	24"	1/2	230/460	2.6/1.3	60	3		1,150	15.0	0.43	859	5,740	13.4	Direct	3-Glv		C19338	
VP363D	36"	1/2	230/460	2.6/1.3	60	3		860	21.5	0.47	856	10,470	22.3	Direct	3-Glv		C18012	
Whirl-Wind																		
Single Phase																		
VG24DM	24"	1/2	115/230	4.8/2.4	60	1		970	14.2	0.37	1,688	5,170	13.9	Direct	3-Alt		C21190	
VG36DM	36"	1/2	115/230	6.1/3.9	60	1		600	15.5	0.53	857	9,680	18.2	Direct	3-Glv		C21186	
VG36DM-22	36"	1/2	115/230	6.1/3.9	60	1		730	17.3	0.53	859	10,190	19.2	Direct	3-Glv		C21187	
VG36VF36GBM	36"	1/2	115/230	6.6/3.3	60	1		660	14.8	0.59	572	9,800	16.8	Belt	4-Glv		C09024	
VG36VF36	36"	1	115/208-230	9.0/4.5	60	1		905	12.9	1.29	786	13,540	10.5	Belt	4-Glv			
VG50DM	50"	1	230/220	5.0/4.7	60	1		680	13.9	0.94	842	17,000	18.2	Direct	3-Glv		C15238	
VG50	50"	1	115/208-230	9.0/4.5	60	1		820	19.3	1.03	589	20,800	20.2	Belt	3-Glv		C21192	
VG50-24	50"	1	115/208-230	9.0/4.5	60	1		870	21.5	1.03	588	22,000	21.4	Belt	3-Glv		C21195	
VG50CA	50"	1	115/208-230	9.0/4.5	60	1		820	20.3	1.02	589	21,400	21.1	Belt	3-CA		C21193	
VG50G6	50"	1	115/208-230	9.0/4.5	60	1		750	20.3	0.97	471	21,100	21.7	Belt	6-Glv		C21194	
VG55	55"	2	115/208-230	20/11.3-10	60	1		31.2	19.9	1.57	578	28,876	18.4	Belt	3-Glv		20210915-01	
Three Phase																		
VG24DM3CF	24"	1/2	230/460	2.6/1.3	60	3	1/Var [^]	640	11.7	0.44	859	5,090	11.6	Direct	3-Gva		C21191	
VG36DM3CF	36"	1/2	230/460	2.6/1.3	60	3	1/Var [^]	610	18.0	0.48	852	9,860	20.8	Direct	3-Glv		C21189	
VG36DM3F-22	36"	1/2	230/460	2.6/1.3	60	3	1/Var [^]	780	19.5	0.47	853	10,150	21.8	Direct	3-Glv		C21188	
VG50DM3B	50"	1	230/460	5.6/2.3	60	3	1/Var [^]	650	15.0	0.91	841	17,400	19.2	Direct	3-Glv		C15239	
VG503	50"	1	230/460	3.2/1.6	60	3	1/Var [^]	830	20.7	0.96	585	21,300	22.1	Belt	3-Glv		C21196	
VG503CA	50"	1	230/460	3.2/1.6	60	3	1/Var [^]	780	20.2	0.95	586	21,200	22.2	Belt	3-CA		C21197	
VG503G6	50"	1	208-230/460	3.2/1.6	60	3	1/Var [^]	740	19.5	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 [^]	32.8	18.2	1.81	570	29,629	16.4	Belt	3-Glv		20210917-03	
Barnstormer - Gold Star																		
Single Phase																		
VBS20-GS	20"	1/3	115/230	4.0/2.0	60	1	1/Var [^]	1,170	4.5	10.7	0.42	1,668	3,920	9.3	Direct	3-Alt		C19038
VBS24-GS	24"	1/2	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-Alt		C19033
VBS36A-GS	36"	1/2	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"	1/2	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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			Volts	Amps ^{NP}	Hz	Ph												
Barnstormer																		
Single Phase																		
VBS12	12"	1/10	115/230	1.42/1.77	60	1	1/Var ^A	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	3.8	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		650	0.7	8.7	0.08	1,465	1,090	13.6	Direct	3-Alm	P C0837
								High	580	0.6	8.9	0.07	1,339	1,000	15.2			
								Med	500	0.4	7.9	0.06	1,133	870	15.5			
								Low	755	1.7	10.9	0.16	1,550	2,210	13.9			
POW18	18"	1/8	115	2.0	60	1	3		660	1.3	8.9	0.14	1,339	1,870	13.4	Direct	3-Alm	P C0838
								High	435	0.7	6.4	0.11	994	1,420	12.7			
								Med										
								Low										
* Black																		
POW18B	18"	1/8	115	2.0	60	1	3		755	1.7	10.9	0.16	1,550	2,210	13.9	Direct	3-Alm	P C0838
								High	660	1.3	8.9	0.14	1,339	1,870	13.4			
								Med	435	0.7	6.4	0.11	994	1,420	12.7			
								Low										
Indoor/Outdoor UL507 Certified Oscillating Wall Mount Fans																		
Single Phase																		
Oscillating																		
POW24OSC	24"	280 W	120	2.7	60	1	3		570	2.5	9.4	0.26	1,070	3,470	13.1	Direct	3-Alm	P C21007
								High	470	1.8	9.8	0.18	873	2,930	16.3			
								Med	430	1.3	8.6	0.16	752	2,550	16.4			
								Low	630	3.0	11.1	0.27	1,088	4,790	17.7			
POW30OSC	30"	285 W	120	2.7	60	1	3		550	2.1	10.8	0.19	883	3,960	20.6	Direct	3-Alm	P C21008
								High	500	1.4	9.0	0.16	750	3,310	20.7			
								Med										
								Low										

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			Volts	Amps ^{NP}	Hz	Ph												
JD360 Destratifier																		
Single Phase																		
JD360	18"	1/4	115~	3.9/1.95	60	1	1,790							Direct	6-Ply	D		
Three Phase																		
JD360-3	18"	1/2	230/460	2.6/1.3	60	3	1,803							Direct	8-Ply			
Green Breeze HAF Fans																		
Single Phase																		
VBG12	12"	1/10	115/230~	1.42/.77	60	1	550	0.9	7.7	0.19	1,686	1,060	9.2	Direct	3-Alm	P	C21182	
VBG20	20"	1/3	115/230~	3.8/1.9	60	1	1,090	3.8	12.2	0.31	1,691	3,650	11.8	Direct	3-Alm	P	C16431	
VBG24	24"	1/2	115/230~	4.8/2.4	60	1	1,230	5.4	12.4	0.44	1,666	5,250	12.1	Direct	3-Alm	P	C16430	
VBG36	36"	1/2	115/230~	6.1/3.09	60	1	980	8.6	15.2	0.56	841	9,810	17.4	Direct	3-Glv	P	C22008	
EZ-Breeze HAF Basket Fans																		
Single Phase																		
VDB12G	12"	1/10	115/230~	1.42/.77	60	1	470	0.6	7.3	0.09	1,728	870	10.3	Direct	3-Alm	P	C22018	
VDB16G	16"	1/10	115/230~	1.42/.77	60	1	690	1.0	10.8	0.10	1,723	1,520	15.6	Direct	3-Alm	P	C22017	
VDB20G	20"	1/10	115/230~	1.42/.77	60	1	510	0.8	8.4	0.09	1,720	1,650	17.6	Direct	3-Alm	P	C22019	
VDB203G	20"	1/3	115/230~	3.8/1.9	60	1	1,150	3.3	11.4	0.29	1,700	3,390	11.9	Direct	3-Alm	P	C19326	
VDB24G	24"	1/3	115/230~	3.8/1.9	60	1	860	2.4	8.5	0.29	1,703	3,500	12.3	Direct	3-Gva	P	C19327	
VDB242G	24"	1/2	115/230~	4.8/2.4	60	1	1,130	4.9	12.1	0.41	1,667	5,020	12.3	Direct	3-Alm	P	C19328	
PSC Inflation Blower Motors - Round Flange																		
Single Phase																		
No Cord																		
VBM60A-P		1/25	115	0.23	60	1					3,080	60		Direct				
With Cord																		
VBM60A-PC		1/25	115	0.23	60	1					3,080	60		Direct		P		
PSC Inflation Blower Motors - Square Flange																		
Single Phase																		
No Cord																		
VBM148A-P		1/25	115	0.75	60	1					3,120	148		Direct				
With Cord																		
VBM148A-PC		1/25	115	0.75	60	1					3,120	148		Direct		P		

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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 ^{NP}	Hz											
Poly Chiller																
Single Phase																
Without Cord																
VPRF24	24"	1/2	115/230	4.8/2.4	60	1	1	10.5	1,730	4,890	10.9	Direct	3-Alm		C08024	
VPRF36	36"	1/2	115/230	6.1/3.09	60	1	1	14.7	832	9,750	17.4	Direct	3-Glv		C19342	
With Cord Wired for 115V																
VPRF24-C115	24"	1/2	115	4.8/2.4	60	1	1	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	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	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	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	11.7	857	5,110	11.2	Direct	3-Glv		C21010	
VPRF363	36"	1/2	230/460	2.6/1.3	60	3	1	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	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^	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	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	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	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	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	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	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	11.2	851	6,380	13.7	Direct	3-Alm		C22011	
VDB363-GS	36"	1/2	230/460	2.6/1.3	6	3	1	15.5	835	9,810	17.7	Direct	3-Alm		C22012	

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			Volts	Amps ^{NP}	Hz	Ph											
High Output Deluxe Basket Fans																	
Single Phase																	
With Cord~																	
VDB20	20"	1/3	115~	3.5	60	1	1	870	8.7	0.37	1,685	3,340	9.1	Direct	3-Alt	P	C10032
VDB24	24"	1/2	115~	4.8	60	1	1	1,150	11.6	0.50	1,709	5,370	10.8	Direct	3-Alt	P	C08033
VDB30	30"	1/2	115/230~	6.1/3.09	60	1	1	720	9.3	0.57	826	6,500	11.4	Direct	3-Alt	P	C19333
VDB36	36"	1/2	115/230~	6.1/3.09	60	1	1	920	14.3	0.55	852	9,520	17.3	Direct	3-Glv	P	C19334
Three Phase																	
No Cord																	
VDB303	30"	1/2	230/460	2.6/1.3	60	3	1	770	10.9	0.52	850	6,730	13.0	Direct	3-Alt		C18267
VDB363	36"	1/2	230/460	2.6/1.3	60	3	1	920	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	710	9.9	0.19	1,133	2,550	13.3	Direct	3-Alt	P	C21002a
								520	7.0	0.15	862	1,900	12.7				
VDF24HOB2	24"	1/4	115	3	60	1	2	810	11.6	0.24	1,088	3,700	15.5	Direct	3-Alt	P	C21003a
								400	5.4	0.16	586	2,050	13.0				
Non-Oscillating White Models																	
VDF20HOW2	20"	1/4	115	3	60	1	2	710	9.9	0.19	1,133	2,550	13.3	Direct	3-Alt	P	C21002b
								520	7.0	0.15	862	1,900	12.7				
VDF24HOW2	24"	1/4	115	3	60	1	2	810	11.6	0.24	1,088	3,700	15.5	Direct	3-Alt	P	C21003b
								400	5.4	0.16	586	2,050	13.0				
Oscillating Black Models																	
VDF201HOB2	20"	1/4	115	2.5	60	1	3	740	8.9	0.18	1,157	2,340	13.0	Direct	3-Alt	P	C21004a
								730	13.6	0.11	1,115	2,280	20.4				
								730	15.3	0.10	1,087	2,250	23.2				
VDF241HOB2	24"	1/4	115	2.5	60	1	3	800	12.2	0.24	1,091	3,820	15.7	Direct	3-Alt	P	C21005a
								740	13.7	0.17	931	3,350	20.2				
								710	13.2	0.14	845	3,050	21.5				
VDF301HOB2	30"	1/2	115	6	60	1	3	800	11.8	0.47	1,117	6,520	14.0	Direct	3-Alt	P	C21006a
								760	11.7	0.41	1,020	6,060	14.9				
								540	8.5	0.38	818	4,970	13.2				
Oscillating White Models																	
VDF201HOW2	20"	1/4	115	2.5	60	1	3	740	8.9	0.18	1,157	2,340	13.0	Direct	3-Alt	P	C21004b
								730	13.6	0.11	1,115	2,280	20.4				
								730	15.3	0.10	1,087	2,250	23.2				
VDF241HOW2	24"	1/4	115	2.5	60	1	3	800	12.2	0.24	1,091	3,820	15.7	Direct	3-Alt	P	C21005b
								740	13.7	0.17	931	3,350	20.2				
								710	13.2	0.14	845	3,050	21.5				

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			Volts	Amps ^{NP}	Hz													
Heavy-Duty Industrial Pedestal Fan																		
Single Phase																		
Non-Oscillating																		
VDF20WB2	20"	1/4	115	3	60	1	2	High Low	710 520	1.9 1.1	9.9 7.0	0.19 0.15	1,133 862	2,550 1,900	13.3 12.7	3-Alt	P	C21002c
VDF24WB2	24"	1/4	115	3	60	1	2	High Low	810 400	2.8 0.9	11.6 5.4	0.24 0.16	1,088 586	3,700 2,050	15.5 13.0	3-Alt	P	C21003c
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	3-Alt	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	3-Alt	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	3-Alt	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-Alt	P	C21009

HAF Panel Fan with Wide Guard - Fiberglass Housing - Gold Star

Single Phase																			
VPP20F13P-GS	20"	1/3	115/230	4.0/2.0	60	1	1		1,340	5.3	17.1	0.31	1,721	4,250	13.8	Direct	3-Ply		C19053
VPP24F13P-GS	24"	1/3	115/230	4.0/2.0	60	1	1		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"	1/3	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"	1/3	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"	1/3	115/230	4.0/2.0	60	1	1/Var ^A	C	1,080	5.0	13.9	0.36	1,700	4,140	11.5	Direct	3-Alt		C19057
VPP24G13A-GS	24"	1/3	115/230	4.0/2.0	60	1	1/Var ^A	C	1,010	3.3	10.8	0.30	1,725	4,020	13.3	Direct	3-Alt		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-Alt		C19058

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Part #	SZ	HP	60 Hz Motor Label Data ONLY			Speed % or Level	Speed Control	FPM	Thrust (lbf)	Thrust Eff. Ratio	kW	RPM	Thrust CFM	Thrust CFM/Watt	Drive	Prop	Cord	Test #
			Volts	Amps ^{NP}	Hz													
HAF Panel Fan with Wide Guard - Galvanized Housing																		
Single Phase																		
VPP20G13A	20"	1/3	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"	1/3	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
* 60" Premium Indoor/Outdoor UL507 Ceiling Fan																		
Single Phase																		
CF60A	60"		115	0.74	60	1	1/Var [^]	C				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	9.5	2.70	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	4.8	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	10.8	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					542	14,440	17.3	Belt	3-Glv		P
												361	10,015	22.6				
VI481WB	48"	1	115/208-230~	9.0/4.5	60	1	1					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					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	1.00	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	4.3	0.98	1,770	3,780	3.9	Direct	8-Ply		P C21012

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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 ^{NIP}	Hz	Ph											
24" Premium Direct Drive Drum Fan																	
Single Phase																	
PDF24	24"	1/6	120	1.76/1.60	60	1	2				1,075 772	7,760 5,500		Direct	3-Alm	P	

Red text is data based on testing performed by an accredited lab using ANSI / AMCA Standard 230-12.
 Due to our continual effort to provide the best products available and adhere to market conditions; literature, products, prices and availability are subject to change without notice.

NOTES:

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SS912	148	TFC956-28	158,165	TPI-747	123	VBG12	62
SSAB34015	46,144	TFC960-22	158,165	TPI-791-C	119	VBG20	62
SSOT	148	TFC960-24	158,165	TPI-793-C	118-119	VBG24	62
SSP101	142	TFC960-26	158,165	TPI-794-C	119	VBG36	62
SSP1015	142	TFC960-28	158,165	TPI-796-C	122	VBM148A-P	64
SSP101A	142	TFC966-22	158,165	TPI-797	118	VBM148A-PC	64
SSP180	142	TFC966-24	158,165	TPI-901	121	VBM60A-P	64
SSP180N	142	TFC966-26	158,165	TPI-902	118-119	VBM60A-PC	64
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SSP182	142	TFC970-22	158,165	TPI-904	119	VBMBRKT-SQ	64
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SUA38	142	TFC970-26	158,165	TPI-915-TR	118-120	VBS20	56
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TCG243-6	180	TFC976-24	158,165	TPI-918-TR	118-119	VBS24	56
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TCG60-5	179	TFD800	157,160-165	TPI-951	118-119	VBS36A	56
TCG60P-5	179	TFD860	157,160-165	TPI-952	119-122	VBS36A-GS	56
TCG663-6	179	TFD866	157,160-165	TPI-954	119	VBS36CF	56
TCG663P-6	179	TFD876	157,160-165	TPI-955	118-120	VBS36CF-GS	56
TCG664SQ-HDG	179	TFD880	157,160-165	TPI-AERON-B	120	VC012	100
TCG66-5	179	TFD886	157,160-165	TPI-AERON-Y	120	VC012-C	100
TCG66P-5	179	TFP856	163	TPI-OMNIFLUX-B	122	VC109	100
TCG66S	179	TFP860	163	TPI-OMNIFLUX-Y	122	VC115	100,126,142
TCG703-6	179	TFP866	163	TPI-VENTUM-B	118	VC115-C	100,126
TCG703P-6	179	TFP870	163	TPI-VENTUM-Y	118	VCB0010VS	100
TCG704SQ-HDG	179	TFP876	163	TPQ10-ADJ	171	VDB12G	63
TCG70-5	179	TFP880	163	TPQ10-ADJ-HD	169	VDB16G	63
TCG70P-5	179	TFP886	163	TPQ12-ADJ	171	VDB20	66
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TCG763P-6	179	TFY860-H	157,160-165	TPQ12W-ADJ-HD	172	VDB20G	63
TCG76-5	179	TFY866-H	157,160-165	TPQ8-ADJ	171	VDB20-GS	66
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TF856-H	157-165	TPI-160-P-C-Y	123	TPQH8-ADJ	171	VDB303	66
TF860-H	157-165	TPI-160-PD-C-B	123	TPS3212008	174	VDB303-GS	66
TF866-H	157-165	TPI-160-PD-C-Y	123	TPS4012009	174	VDB30-GS	66
TF876-H	157-165	TPI-1800-VFG-C-B	119	TPS4012010	174	VDB36	66
TF880-H	157-165	TPI-1800-VFG-C-Y	119	TPS4012012	174	VDB363	66
TF886-H	157-165	TPI-2000-PBR-C-Y	121	TPS4014409	174	VDB363-GS	66
TF956	158,165	TPI-3000-VFBG-C-B	118	TPS4014410	174	VDB36-GS	66
TF960	158,165	TPI-3000-VFBG-C-Y	118	TPS4014412	174	VDF201HOB2	67
TF966	158,165	TPI-3000-VFBR-C-B	118	TR1911	157-163,180-182	VDF201HOW2	67
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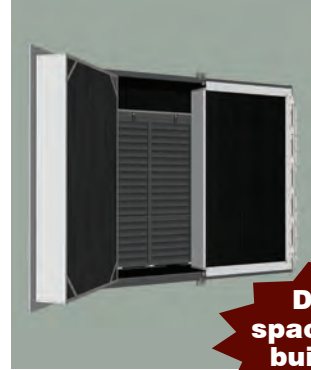
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