



**FMX09**



**FUMEX**

Model: FX  
Upblast Roof Exhausters  
Direct Drive and Belt Drive

*MOVING YOUR WAY*

› **Fumex Direct Drive Series**

**Model: FX (V/S/R/Q/Q1/Q2)**

- Static pressure up to 1.5 in. wg.
- Flow capacity up to 4,489 CFM
- Fatrap (FT) Option Available on sizes 13, 16, & 18
- High wind construction (-HW) option available.

› **Fumex Standard Duty Belt Drive Series**

**Model: FX (B)**

- Static pressure up to 2.5 in. wg.
- Flow capacity up to 21,511 CFM
- Fatrap (FT) Option Available
- Heat & Smoke Removal (-HS) Option Available
- High wind construction (-HW) option available.

› **Fumex High Pressure Belt Drive Series**

**Model: FX (BH)**

- Static pressure up to 4 in. wg.
- Flow capacity up to 9,920 CFM
- Fatrap (FT) Option Available
- Heat & Smoke Removal (-HS) Option Available
- High wind construction (-HW) option available.

› **Fumex High Capacity Belt Drive Series**

**Model: FMX (B)**

- Static pressure up to 1.5 in. wg.
- Flow capacity up to 31,881 CFM



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› **Fumex Direct & Belt Drive Fans**

PennBarry certifies that the Fumex direct drive and belt drive models FX, FXB, FXBH, and FXBHFT shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



› **Fumex High Capacity Belt Drive Fans**

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› **UL and CSA Certification**

Fumex fans carry the UL label, UL 705 (ZACT), File #E28413. Fumex fans with the "Fatrap" option are UL 762 (YZHW) listed under file #MH10684. Fumex fans with the heat and smoke removal option are UL listed under file #MH19473.



Fumex exhausters are also certified by the Canadian Standard Association file #LR13309.



*PennBarry reserves the right to make changes at any time, without notice, to models, construction, specifications, options, availability, etc. This bulletin illustrates the appearance of PennBarry products at the time of publication. To view the latest updates, visit PennBarry at [www.pennbarry.com](http://www.pennbarry.com).*

## General Information

Centrifugal Fans



*Belt Drive Fumex with Fatrap option (above) and Direct Drive Fumex (right).*

### › Fumex Series of Centrifugal Fans

Fumex centrifugal fans are designed for medium to high pressure applications. They can be either roof or wall mounted. While suitable for general ventilation, Fumex fans are specifically designed to discharge contaminated or grease-laden air or fumes up and away from building surfaces. The optional "Fatrap" (UL762) restaurant grease exhaust configuration (see Fatrap Configuration) makes Fumex fans particularly suited for all food service applications and chemical fume hoods. The optional heat and smoke removal configuration (see Smoke Removal) makes Fumex fans particularly suited for heat and smoke control systems. The optional high wind construction makes Fumex Fans particularly suited for high wind hurricane zones. Fumex fans are available in a range of capacities.

Fumex fans feature a weather-resistant seamless spun aluminum housing which provides ample drainage and works in conjunction with a patented wheel design and deeply spun inlets to provide smooth quiet airflow through the ventilator. The centrifugal wheels are aluminum, non-overloading, backward inclined, robotically welded, and dynamically balanced.

### › Fumex Direct Drive Series

#### Model: FX (V/S/R/Q/Q1/Q2)

- Static pressure up to 1.5 in. wg.
- Flow capacity up to 4,489 CFM
- Fatrap (FT) Option Available on sizes 13, 16, & 18
- High wind construction (-HW) option available.

### › Fumex Standard Duty Belt Drive Series

#### Model: FX (B)

- Static pressure up to 2.5 in. wg.
- Flow capacity up to 21,511 CFM
- Fatrap (FT) Option Available
- Heat & Smoke Removal (-HS) Option Available
- High wind construction (-HW) option available.

### › Fumex High Pressure Belt Drive Series

#### Model: FX (BH)

- Static pressure up to 4 in. wg.
- Flow capacity up to 9,920 CFM
- Fatrap (FT) Option Available
- Heat & Smoke Removal (-HS) Option Available
- High wind construction (-HW) option available.

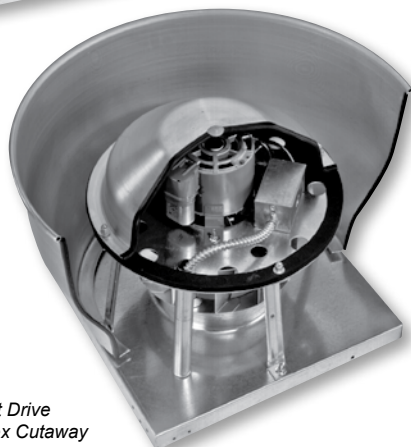
### › Fumex High Capacity Belt Drive Series

#### Model: FMX (B)

- Static pressure up to 1.5 in. wg.
- Flow capacity up to 31,881 CFM



*Belt Drive Fumex Cutaway*



*Direct Drive Fumex Cutaway*

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### › Motor Selection

Both direct drive and belt drive models are available with a wide range of voltages and enclosures (see Motor Selection for a complete listing). Standard belt drive Open Drip Proof (ODP) ball bearing motors are selected using a conservative portion of the NEMA service factor. Standard direct drive ODP motors have Class B insulation and internal overload protection. Overload protection is available as an option on belt drive models. Each size is carefully engineered to match the motor to the wheel capacity.

### › Internal Wiring

All direct and belt drive models with ODP motors feature a polarized disconnect plug which is factory wired from the motor to the junction box. This provides a positive method of electric shut-off as required by most codes without requiring the traditional disconnect switch. (See Options & Accessories for optional NEMA wiring and disconnect devices.)

### › Sound Performance

Fumex units deliver outstanding air performance with minimal noise and have the lowest AMCA licensed sound performance in the industry.

### › Curb Caps (Base)

Curb caps for direct drive and standard duty belt drive models are available in galvanized steel (standard) or aluminum (optional). Curb caps for high capacity belt drive models are available only in aluminum. All curb caps have fully welded corners and are pre-punched to ensure a leak-tight and easy installation.

### › Forced Motor Cooling

Motors and drive components are located out of the airstream in a separate compartment. A cooling tube between the motor dome and discharge apron enables fresh air to be drawn into the motor housing during fan operation. This positive cooling promotes longer life for motor and drive components.

### › Easy Maintenance Access

By removing the fasteners, the motor dome lifts off for complete access to all the drive components.

### › Vibration Isolators

Multidirectional, rubber-in-shear vibration isolators mitigate residual vibration transmission from the unit to the building.

### › Structural Integrity

Durable housings of spun aluminum have a high strength-to-weight ratio and incorporate a rolled bead for additional strength. There are no welds to break or seams to leak. The heavy-gauge motor mounting platform provides positive rigidity between all components of the power train assembly.

### › Internal Bracing

Tri-Strut™ supports transfer the weight of the motor mounting platform directly to the curb mounting surface. The aluminum spun housing, therefore, is not used to support any weight. For grease laden applications, there is less surface for grease build-up during normal operation.

### › Solid Steel Shafts

Sized so the first critical speed is a minimum of 130% of maximum cataloged operating speed, shafts are precision ground, and polished.

### › Self-Aligning Bearings

Heavy-duty bearings are sized for a minimum L50 life in excess of 200,000 hours of operation. 100% factory tested, they are designed for air handling applications.

### › Drives and Belts

Pulleys are pre-set to the specified RPM. Cast iron variable pitch pulleys are adjustable, allowing for field balancing based on actual field conditions. All pulleys are sized for at least 150% of the driven horsepower.

### › Conduit

Both direct and belt drive units include a large 1" nominal conduit chase (not available on heat and smoke removal units; wiring is run via the cooling tubes) for easy installation of wiring from the motor dome to below the curb cap. Fatrap units are factory wired to an external NEMA 3R junction box.

### › Reverse Venturi

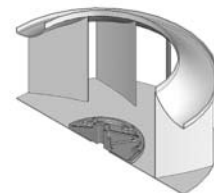
Reverse venturi reduces turbulence and improves distribution of the air as it enters the wheel inlet and is "captured" by the blades.

### › Wheels

Fumex fans offer patented wheel designs. Carefully matched, highly-tooled venturis enhance the performance of these backward inclined and non-overloading centrifugal wheels. Made of advanced aluminum alloys, the various wheel components provide superior strength and durability, as well as spark resistant construction. The heat and smoke removal configuration utilizes steel construction.

### › Silent Wheel (Direct Drive)

- Blades' highly curved leading edge provide unsurpassed low sound numbers with excellent air performance.
- Backplate and inlet are stamped for consistency, plus dynamic balancing assure smooth, vibration-free operation.
- Riveted or riveted and welded construction ensure superior dependability over other wheel designs.



### › Standard Duty, All Welded Wheel

(Standard Duty and High Pressure Belt Drive)

- Blades are curved for improved air performance while increasing their strength and rigidity.
- Backplate and inlet are stamped for consistency. They include a perimeter rim which enhances strength and improves balancing.
- Wheel assembly is robotically welded to provide extremely durable and consistent performance.
- Wheel is dynamically balanced. Balancing weights are mechanically attached to the inside of the rims of both the backplate and wheel inlet. This allows a precise placement of the weights anywhere within a full 360° range on two separate planes, without the possibility of detachment.



# Introduction

Fumex



## Options & Accessories

Centrifugal Fans

### › Finishes

Coatings such as Polyester Powder Coat, Epoxy Powder Coat, Phenolic Epoxy Powder Coat, and others are available. See the coatings brochure for details.

### › Mounting Pedestal

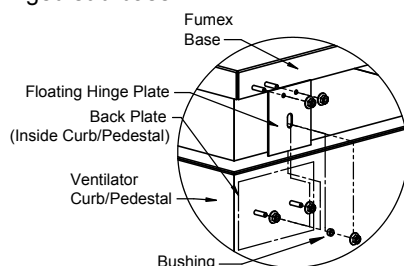
The 12" high mounting pedestal, available in aluminum or galvanized steel, incorporates a removable access panel for easy inspection and service of motor operated backdraft dampers. It provides solid ventilator support and a weather resistant seal that does not injure or disturb flashing. This item should not be used with Fatrap units.

### › Hinged Sub-Base

Hinged sub-bases provide access to the curb well for damper service or clean out for grease applications. Constructed with a rust proof hinge arrangement and low height (3 1/2") the assembly is easily manipulated and reduces the impact on overall installation height. This accessory is available for use with most all models for either factory built or existing roof curbs.

### › Floating Hinge Kit

A floating hinge kit is also available for field installation. This assembly connects the exhaustor directly to the roof curb and provides the same level of access as the hinged sub-base.



### › Aluminum Bird and Insect Screen

Bird screens are available for all direct and belt drive models. An aluminum insect screen with a smaller mesh than the standard bird screen is also available. However, please note that NFPA 96 installations do not allow the use of bird or insect screens. The requirements of local codes must be reviewed to determine if there are any conflicts.

### › Internal Wiring

NEMA 3R wiring is available for both direct and belt drive models.

### › Backdraft Dampers

Backdraft dampers are available for either gravity or motorized operation (motor kit optional). Dampers feature square galvanized steel frame, multi-leaf, roll formed aluminum blades with nylon bearings. Backdraft dampers should not be used when venting kitchen hoods. NFPA 96 installations do not allow the use of dampers. The requirements of local codes must be reviewed to determine if there are any conflicts.

### › Safety Disconnect Switch

Safety disconnect switches are available to allow positive electrical shut-off and safety. Switches are factory mounted when factory wiring is requested. Wiring is only run from the motor to the junction box. (Factory wiring of explosion proof applications is not available.) A wide range of NEMA rated enclosures with disconnect switches are available for indoor, outdoor, and explosion proof installations. Disconnects are to be field wired by a licensed electrician.



### › Firestat Switch

Firestat switch automatically disconnects the unit when the temperature of the air being exhausted exceeds a preset rating.



### › Time-Delay Switch

(Selected direct drive models only) The Air-minder Model AM12 switch is a UL recognized and CSA certified time-delay relay that operates both the fan and room light to ventilate an area even after the occupants depart. In the "On" position, the Air-minder turns the light and fan on immediately. In the "Off" position, the light goes off immediately and the fan is in operation for a period of time as preset from 1 to 60 minutes. Suitable only for 1/3 HP maximum at 120/1/60.



### › Speed Controllers

The Lektrol™ controller allows adjustment in speed to a maximum of 50% reduction, which results in a very cost effective means for system balancing. The device can be located under the fan dome to prevent unauthorized tampering or on the wall for ease of operation by the building occupants. (Available on direct drive units with ODP motors and some select TE motors. See reference table under Motor Availability)



### › Automatic Belt Tensioner

The factory mounted Automatic Belt Tensioner accessory eliminates the need for re-tensioning the belt after start-up. It is constructed from 10 gage galvanized steel and incorporates five torsion springs to automatically position the motor and maintain proper belt tension. Additional benefits include reduced belt and pulley wear and simplified belt replacement without tools. The Automatic Belt Tensioner is available for Fumex models FX08B, FX10B, FX12BH, FX13B, FX13BHFT and FX14B with 1/4, 1/2, 3/4, and 1 HP ODP motors. It can also be used with 1.5 HP, 3-phase ODP motors.

### › Spark Resistant Construction

AMCA 'B' construction is available as standard construction on direct drive units and as an option on belt drive units (not available on heat and smoke removal units). If required, an explosion proof motor and disconnect may be selected as options.

### › Wall Mounting

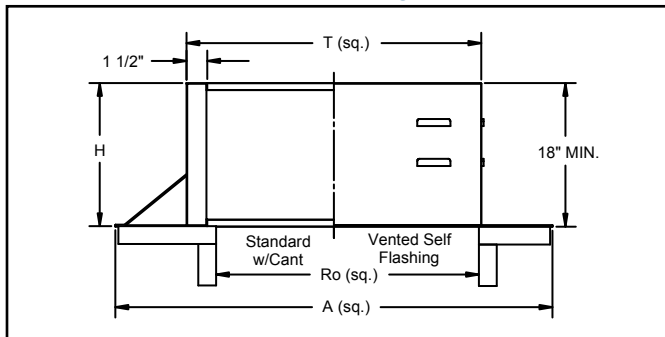
This option is provided as a separate product line, whose models include a "W" prefix. Product line includes models up to size 24, motors up to 2HP, and round bases (not available on heat and smoke removal units).

### › Prefabricated Curb

A variety of sizes of prefabricated roof curbs are available. Galvanized steel unibeam curbs are the most popular. For a complete listing of all curb types and sizes available, see the latest PennBarry Ventilation Curb brochure. Please note that NFPA 96 installations require a specific curb height. See Fatrap configuration on the next page.

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### › Fumex Curb Dimensional Drawings

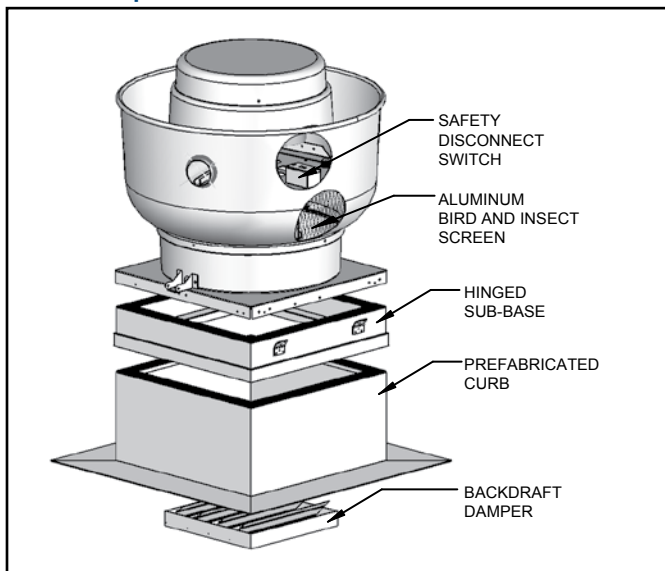


### › Fumex Dimensional References

Model	E <sup>(4)</sup> SQ	T <sup>(2)</sup> SQ	A SQ	Ro <sup>(3)</sup> SQ	Damper Size SQ	Galv. Steel Gauge
FX08S/R	18.5	17	25	9	8.75	18
FX10S/R	18.5	17	25	11.5	11.25	18
FX11V/S/R/Q	18.5	17	25	11.5	11.25	18
FX13V/S/R/Q	18.5	17	25	11.5	11.25	18
FX16V/S/R/Q1/Q2	20.5	19	27	16	15.75	18
FX18V	28.5	27	35	20	19.75	18
FX08B to FX14B	24.75	23.25	31.25	16	15.75	18
FX12BH	24.75	23.25	31.25	16	15.75	18
FX13BHFT	24.75	23.25	31.25	16	15.75	18
FX16B and FX18B	28.5	27	35	20	19.75	18
FX18BH	28.5	27	35	20	19.75	18
FX24B	33.5	32	40	25	24.75	18
FX24BH	33.5	32	40	25	24.75	18
FX27B and FX30B	36.5	35	43	28	27.75	18
FX36B	44.5	43	51	36	35.5	18
FMX50B	59	57.5	65.5	50	49.5	18

Standard heights "H" are 8", 12", and 18" including wood nailer. "T" dimension of curb is 1 1/2" less than the dimension of inside base of fan ("E"). "Ro" refers to Roof Opening. "E" dimension is inside base of fan. For FT (Fatrap) units, curbs are cantless, 18" high and optionally vented.

### › Fumex Exploded View



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### › Fatrap Configuration

Fatrap configured fans are ideal for use in commercial kitchens over grilles, charcoal broilers, deep fat fryers, steam tables, ranges, dishwashers, and other appliances. Fumex fans are specially configured for food service applications with the addition of a group of accessories that either meets a requirement or eases installation requirements according to NFPA 96. NFPA 96 "Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations" is the generally recognized authority nationwide for restaurant installation requirements. However, local codes may vary.

Included in the units are the following.

- **UL 762 Listing:** Fatrap configured Fumex fans are listed at 400°F — 100°F higher than UL requirements. The high temperature rating is the result of the fan's highly efficient forced motor cooling capability. Three direct drive (sizes 13 – 18) and all belt drive models are listed.
- **Pre-wired Junction Box:** A weather-proof junction box is factory wired and mounted to the housing exterior. An appropriately sized disconnect switch is commonly selected as an additional option. These items meet the code requirements for positive electric shut-off.
- **Grease Collector/Separator Box:** Designed for easy installation, the grease is routed from a single swiveling collection spout to an amply sized durable galvanized steel box, trapping grease and residue, and avoiding discharge onto the roof surface. Additionally, these boxes separate the water from the grease, prolonging the time required between periodic maintenance.

### › Additional Fatrap Accessories

**Ventilated Curbs and Pedestals:** For buildings two stories or higher NFPA 96 requires the use of ventilated mounting curbs or pedestals to provide an approved arrangement for connecting a range hood and duct work to the roof fan. PennBarry's ventilated mounting curbs and pedestals, 18" high, comply with that standard when properly installed. Ventilated curbs have a flat mounting flange for fastening directly to the roof deck. This flange should be securely fastened and flashed to ensure weather tightness. Ventilated pedestals are designed to fit on an existing curb. They provide cap flashing when so installed.

**Make-Up Air Units (Suplex):** Fumex fans with the Fatrap configuration can be combined with a PennBarry FS Muffan fan to create an integrated unit called the Suplex. The Fumex handles the required air flow to be exhausted while the Muffan provides an appropriate amount of supply make-up air. The modular design of the Suplex means that just one roof opening is needed for both the exhaust and supply ducts. An insulated shield divides the base to separate the exhaust and make-up air compartments, and prevents heat transfer between hot exhaust air and fresh filtered air. This results in a complete air-tight seal between the hood and exhaust fan.

## Options & Accessories

### › Heat & Smoke Removal Configuration

While Fumex fans are commonly used for general ventilation, they are also designed to discharge contaminated or grease-laden air or fumes up and away from building surfaces with the Fatrap option and when equipped with the Heat and Smoke Removal option, this series of fans incorporates features exclusively designed to exhaust heat and smoke in the event of fire. During these emergencies, the fans are designed to operate at the temperature and time limits stated below. To maintain power to these fans during emergencies, special consideration must be made for field power supply. In the event of an emergency, if power is maintained, the units will operate for the times and temperatures indicated, after which they will continue to operate until they are destroyed by the extreme temperature generated during an actual fire, or their roof structure collapses.

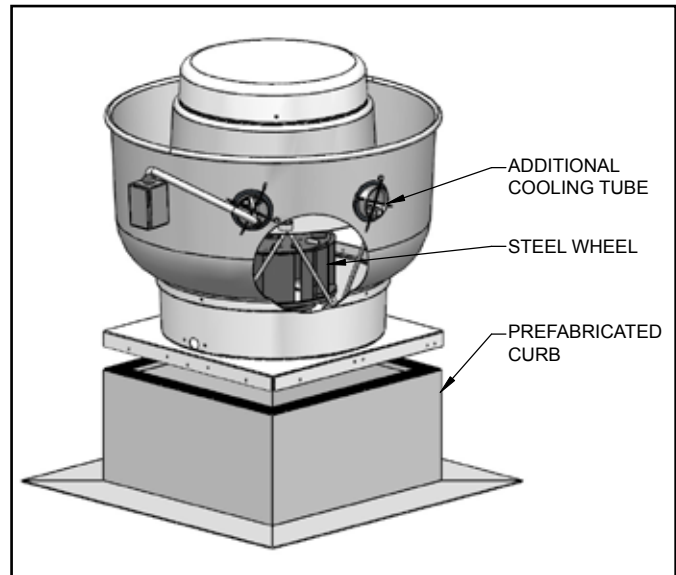
For smoke control systems, Heat and Smoke Removal configured fans are listed per UL for emergency smoke removal, referencing UL705, UL793, Industrial Risk Insurers (IRI), and Southern Building Code Congress International (SBCCI).

The UL standard requires the fan to run at 500°F for 4 hours (IRI) and 1000°F for 15 minutes (SBCCI). PennBarry Heat and Smoke Removal configured Fumex units are listed at 500°F for 4 hours and 1000°F for 1 hour. The additional 45 minutes at 1000°F will buy precious time in the event of a fire.

**Steel Wheel:** The wheel is a standard duty, all welded wheel (standard duty and high pressure belt drive). The blades are curved for improved air performance while increasing their strength and rigidity. The wheel assembly is fully welded to provide extremely durable and consistent performance. The wheel is dynamically balanced. Balancing weights are mechanically attached to the inside of the rims of both the backplate and wheel inlet. This allows a precise placement of the weights anywhere within a full 360° range on two separate planes, without the possibility of detachment.

**Forced Motor Cooling:** Motors and drive components are located out of the airstream in a separate compartment. Two cooling tubes are located between the motor dome and discharge apron which enables fresh air to be drawn into the motor compartment during fan operation. This allows the cooler outside air to wash over the motor and bearings. This positive cooling promotes longer life for the motor and drive components.

### › Fumex Heat & Smoke Removal Option



### › High Wind Construction

High wind construction Fumex fans are specifically designed for high wind hurricane zones (HWHZ). The Fumex models are designed to withstand 150 MPH winds in accordance with Miami-Dade and Florida Building Code standards. The units are 3rd party tested and certified through a 3rd party Professional Engineer (P.E.) to meet these strict standards. Installation details are provided and since there are no tie downs or external braces required for attaching the unit to the roof or curb this makes installation simple and easy. A wide range is offered to meet all of your ventilation needs which includes all belt and direct drive sizes 36 and under.

### Product Certifications:

- Miami-Dade NOA # 08-1202.13
- Florida Product Approval #12339
- Texas Department of Insurance # pending

### › NEMA Motor

This chart summarizes the largest allowable NEMA frame sizes for motors used on belt drive models.

### › Largest Available NEMA Frame Size per Model

Model	Max. Frame Size	Model	Max. Frame Size
FX08B	56	FX18B	145T
FX10B	56	FX18BH	145T
FX12BH	56	FX24B	184T
FX13B	56	FX24BH	184T
FX13BHFT	56	FX27B/FX30B	184T
FX14B	56	FX36B	213T
FX16B	145T	FMX50B	215T

**!** At PennBarry's option, large frame motors may be removed after testing and shipped separately. Contact the factory for special application motor availability.

### › Variable Speed Motor Control

PennBarry offers Lek-Trol™ solid state controllers to alter the high speed of most direct drive motors by as much as 50%. If variable speed is required, check the Lek-Trol™ availability table below to verify that controllers exist for the fan model selected. Remember, Lek-Trol™ controllers are currently only available for direct drive motors including all standard Open Drip Proof (ODP) 60 Hz motors. Not all totally enclosed motors are currently available with variable speed control. Inverter rated motors suitable for use with variable frequency drives can be supplied for belt drive models. Contact your local PennBarry representative for availability.

### › Available Lek-Trol Speed Controls

Model	60 Hz					50 Hz		
	ODP 115V	115V	200V	208V	230V	Totally Enclosed 110V	Totally Enclosed 220V	Totally Enclosed 240V
FX08S	-	-	-	-	-	-	-	-
FX08R	LT25	-	-	-	-	-	-	-
FX10S	-	-	-	-	-	-	-	-
FX10R	LT30	LT30	LT35	LT35	LT35	LT30	LT35	LT35
FX11V	-	-	-	-	-	-	-	-
FX11S	-	-	-	-	-	-	-	-
FX11R	LT30	-	-	-	-	-	-	-
FX11Q	LT50	-	-	-	-	-	-	-
FX13V	-	-	-	-	-	-	-	-
FX13S	-	-	-	-	-	-	-	-
FX13R	LT30	LT30	LT35	LT35	LT35	LT50	LT35	LT35
FX13Q	LT45	LT50	LT35	LT35	LT35	LT50	LT35	LT35
FX16V	-	-	-	-	-	-	-	-
FX16S	-	-	-	-	-	-	-	-
FX16R	LT50	-	-	-	-	-	-	-
FX16Q1	LT40	-	-	-	-	-	-	-
FX16Q2	LT75	-	-	-	-	-	-	-
FX18V	LT60	-	-	-	-	-	-	-

Lek-Trols™ indicated for multi-speed models (eg., FX16V/S/R) are applicable only for the high speed. Do not use on low or medium speed for multi-speed models. Items noted with ( - ) are not applicable.

### › Direct Drive Motor Availability

The following chart lists the various motor options available for each of the direct drive fan models. Once a fan model is selected, this chart can be used to determine if a suitable motor is available. (If not, another selection may have to be made from the fan performance charts). Look under the nominal RPM heading to determine which fans have 2-speed and 3-speed motors.

### › Direct Drive Motor Availability

Model	Nominal RPM				1 Phase							
	1050 V	1300 S	1550 R	1725 Q	115 Volts			200 - 240 Volts				
					Open Drip Proof	Totally Enclosed	Explosion Proof	Open Drip Proof	Totally Enclosed	50 Hz	50 C Ambient	Explosion Proof (4)
FX08S/R	-	x	x	-	yes	yes (1)	-	Use TE Motors	yes (1)	yes (1)	yes (1)	-
FX10S/R	-	x	x	-	yes	yes (1)	-		yes (1)	yes (1)	yes (1)	-
FX11V/S/R	x	x	x	-	yes	yes (1)	-		yes (1)	yes (1)	yes (1)	-
FX11Q	-	-	-	x	yes	yes	yes		yes	yes	yes	yes (5)
FX13V/S/R	x	x	x	-	yes	yes (1)	-		yes (1)	yes (1)	yes (1)	-
FX13Q	-	-	-	x	yes	yes	yes		yes	yes	yes	yes (5)
FX16V/S/R	x	x	x	-	yes	yes (1)	-		yes (1)	yes (1)	yes (1)	-
FX16Q1	-	-	-	x (3)	yes	-	-		-	-	-	-
FX16Q2	-	-	-	x	yes	yes	yes		yes	yes	yes	yes (5)
FX18V	x	-	-	-	yes	-	-		-	-	-	-

Model	Nominal RPM				3 Phase				
	1050 V	1300 S	1550 R	1725 Q	200 - 460 Volts (2)				Explosion Proof (4)
					Open Drip Proof	Totally Enclosed	50 Hz	50 C Ambient	
FX08S/R	-	x	x	-	Use TE Motors	-	-	-	-
FX10S/R	-	x	x	-		-	-	-	-
FX11V/S/R	x	x	x	-		-	-	-	-
FX11Q	-	-	-	x		-	-	-	yes (6)
FX13V/S/R	x	x	x	-		-	-	-	-
FX13Q	-	-	-	x		yes	yes	yes	yes (6)
FX16V/S/R	x	x	x	-		-	-	-	-
FX16Q1	-	-	-	x (3)		-	-	-	-
FX16Q2	-	-	-	x		yes	yes	yes	yes (6)
FX18V	x	-	-	-		-	-	-	-

(1) High speed only.; (2) 200 - 240, 380, 415, 460 V; (3) Nominal 1650 RPM; (4) Cls. I, Grp. D, Div. I / Cls. II, Grp. F & G, Div. I., Not available with 50 Hz.; (5) 230 V only. Not available in 200 or 208 V; (6) 230 V and 460 V only.

# Dimensional Information & Performance Data

Fumex | Direct Drive



## FX08, FX10, FX11, & FX13

### Performance Data Overview

Fumex direct drive models are available with single and multi-speed motors. Multi-speed motors (eg., FX16V/S/R) are designated: V (1050 RPM), S (1300 RPM), and R (1550 RPM). FX18V is an exception, being a single speed motor. Q, Q2 (1725 RPM) and Q1 (1650 RPM) are single speed motors. A single Fumex fan may be suitable for several requirements by a simple wiring change. This feature provides flexibility for a variety of reasons, including energy savings, off hours requirements, future expansion, or unexpected field variations.

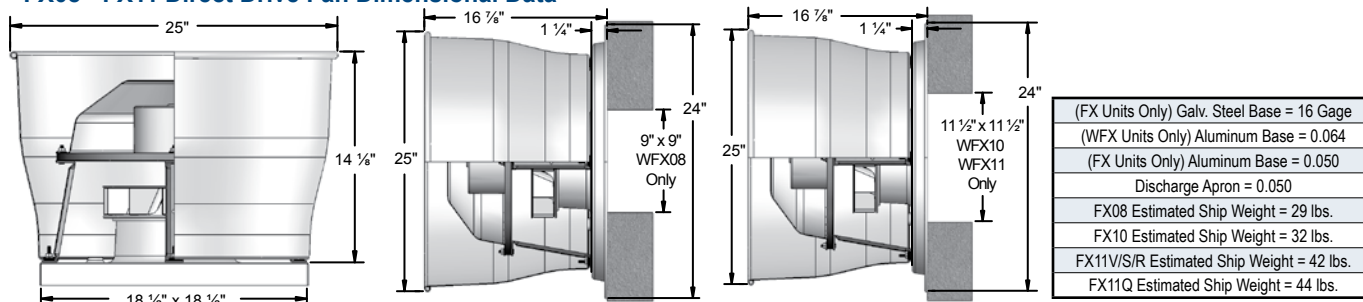
Fumex direct drive models are available in six sizes (8, 10, 11, 13, 16, and 18). Capacities up to 4500 CFM, with static pressures to 1 1/2".

By using Lek-Trol™ variable speed controllers, the high speed flow rate of most models can be reduced by as much as 50%. Do not use Lek-Trol™ on medium or low speed for multi-speed models.

When compared to belt drive models, direct drive fans require less maintenance, have a simpler construction, cost less, and are lighter in weight.

Performances in 50 Hz applications will be less than shown below; consult your local PennBarry representative.

### FX08 - FX11 Direct Drive Fan Dimensional Data

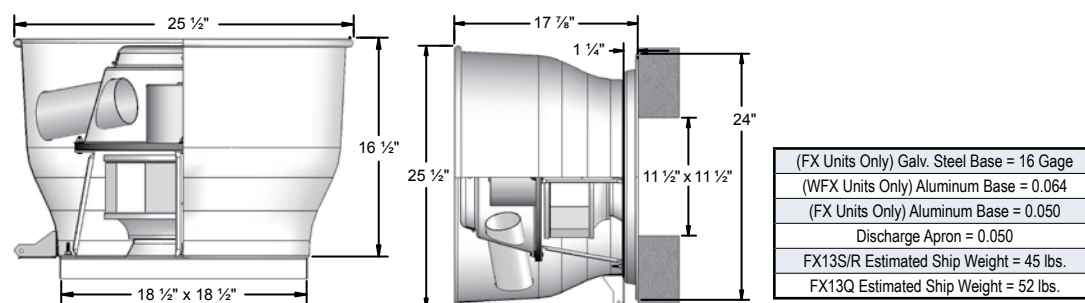


### FX08 - FX11 Direct Drive Performance Data

Model	Nominal			Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP	
	HP	Max Watts	RPM		CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
FX08S	1/50	44	1300	3361	247	1.3	150	2.0	94	3.2	54	4.3	-	-	-	-	-	-	-	-
FX08R	1/30	55	1550	4007	288	2.4	205	2.9	154	3.5	112	4.4	72	5.2	-	-	-	-	-	-
FX10S	1/25	85	1300	3361	400	3.5	309	3.8	246	4.1	194	4.6	152	5.0	109	5.5	57	6.1	-	-
FX10R	1/12	122	1550	4007	570	6.2	500	6.6	440	6.8	385	6.8	325	6.8	251	6.9	170	7.1	-	-
FX11V	1/25	103	1050	3058	406	1.9	225	2.2	151	3.6	119	4.2	87	4.8	57	5.5	-	-	-	-
FX11S	1/11	142	1300	3786	534	3.9	414	4.2	337	5.1	273	5.9	223	6.2	177	6.5	129	6.9	-	-
FX11R	1/7	199	1550	4514	760	7.6	667	7.4	586	7.6	512	7.9	434	8.9	359	9.6	283	9.6	118	9.7
FX11Q	1/5	255	1725	5024	1034	10.7	959	10.5	883	10.5	804	10.5	722	10.6	631	10.9	538	10.7	313	9.7

See notes on page 9.

### FX13 Direct Drive Fan Dimensional Data

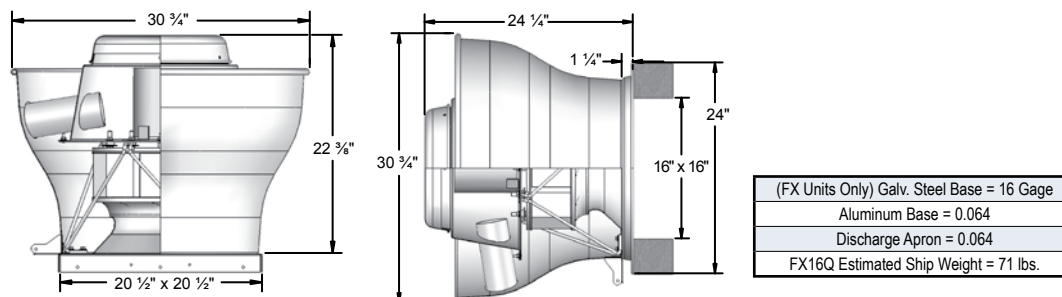


### FX13 Direct Drive Performance Data

Model	Nominal			Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP	
	HP	Max Watts	RPM		CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
FX13V	1/20	113	1050	3221	640	4.2	469	2.8	317	2.4	250	3.1	197	3.8	149	4.5	106	5.2	-	-	-	-
FX13S	1/12	148	1300	3988	845	7.4	735	6.4	612	5.2	492	5.0	404	5.3	334	5.7	270	6.1	136	7.0	-	-
FX13R	1/6	188	1550	4755	1057	10.5	980	10.1	908	9.6	825	8.6	733	8.1	646	8.1	561	8.2	376	8.2	144	8.5
FX13Q	1/4	343	1725	5292	1261	13.6	1198	13.0	1143	12.6	1093	12.1	1033	11.7	973	11.2	909	10.8	757	10.1	515	9.6

See notes on page 9.

### FX16 Direct Drive Fan Dimensional Data

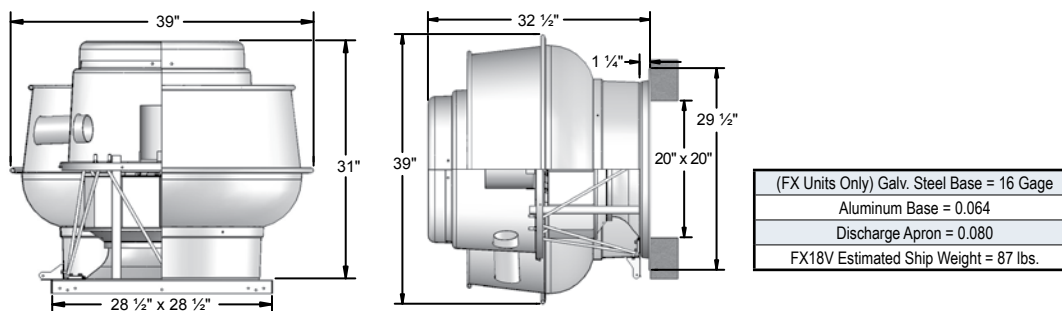


### FX16 Direct Drive Performance Data

Model	Nominal			Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP	
	HP	Max Watts	RPM		CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
FX16V	1/6	485	1050	3788	1604	7.9	1358	6.5	1128	5.5	951	5.8	801	6.3	705	6.9	644	7.7	522	9.2	384	9.3	230	9.7
FX16S	1/3	527	1300	4690	1874	10.7	1693	9.5	1514	8.6	1326	8.0	1158	7.6	1023	7.7	913	8.2	735	9.6	572	9.7	379	9.9
FX16R	1/2	590	1550	5592	2140	12.8	1994	11.9	1849	11.0	1709	10.2	1561	9.9	1410	9.6	1269	9.4	1033	9.7	812	11.1	583	10.8
FX16Q1	1/2	715	1650	5953	2531	15.2	2432	14.7	2332	14.2	2232	13.7	2114	13.1	1992	12.5	1868	11.9	1582	11.0	1320	11.5	1001	12.1
FX16Q2	3/4	890	1725	6223	2822	17.1	2753	16.8	2684	16.5	2594	16.1	2501	15.7	2418	15.4	2331	15.1	2119	14.2	1872	14.1	1566	14.2

See notes at bottom of page.

### FX18 Direct Drive Fan Dimensional Data



### FX18 Direct Drive Performance Data

Model	Nominal			Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP	
	HP	Max Watts	RPM		CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
FX18V	3/4	969	1075	6029	4489	21.0	4333	21.0	4177	20.0	4011	19.1	3831	18.1	3652	17.6	3455	17.2	3023	16.5	2431	17.5	1447	20.0

Performance shown is for installation Type A: Free Inlet, Free Outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for Installation Type A: Free Inlet Fan Sone Levels. Performance ratings do not include the effects of appurtenances in the air stream.

Fumex fans are only one component of a total system. As such, fan performance is directly affected by the system. It is critical that system designers determine the actual system loss to ensure that the actual flow is specified in the system design.

# Performance Data

Fumex | Direct Drive



## Fan Curves

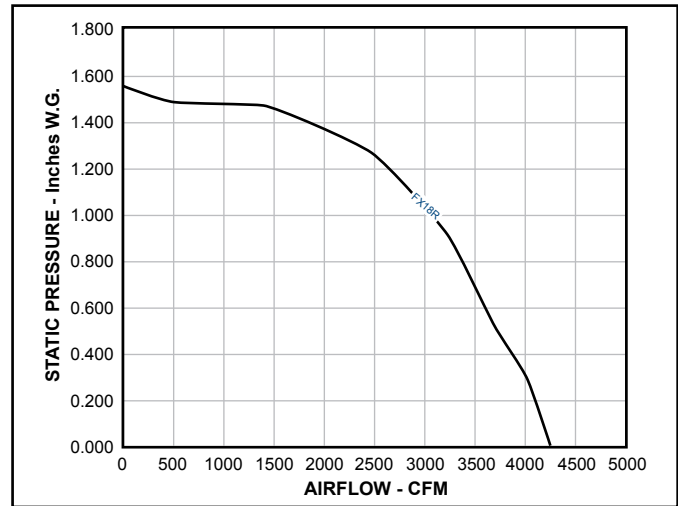
### > Fan Curves

The fan curves illustrated here show the range of capacities available for direct drive units. Each graph shows the performance of several models at one particular nominal speed. Fan curves provide a quick method for selecting a fan unit based on design point requirements.

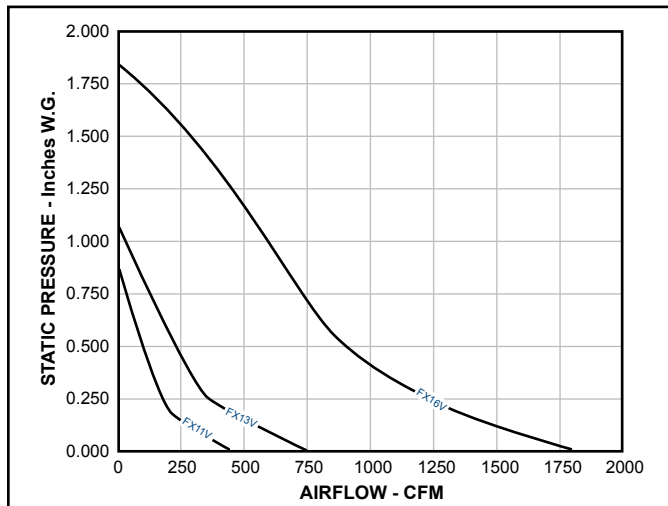
The direct drive performance charts on the previous pages provides the tabular data (CFM and static pressure) used to plot the fan curves. In addition, the horsepower tip speed and sones are tabulated. Since sound is normally an important factor in the selection of a fan, an engineer will usually want to select the "slowest" unit which meets CFM and SP requirements.

Please refer to the Motor Availability section to make sure the motor you select meets your electrical requirements.

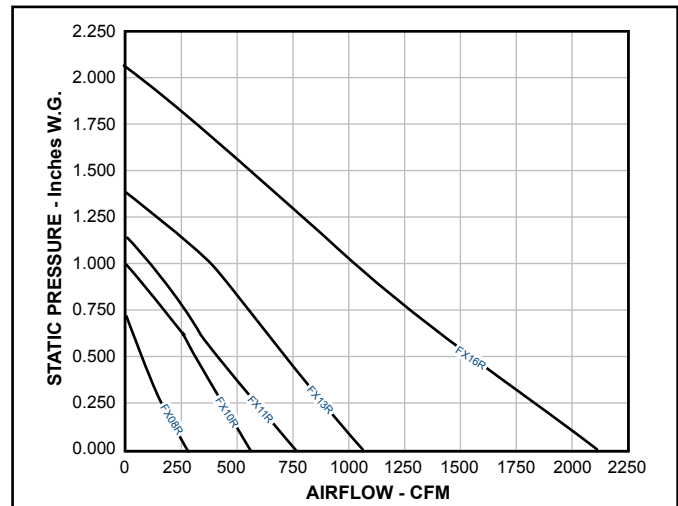
### > Nominal 1075 RPM



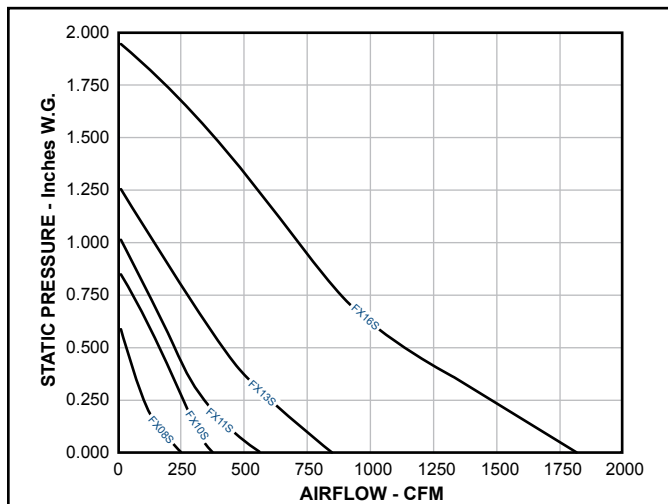
### > Nominal 1050 RPM



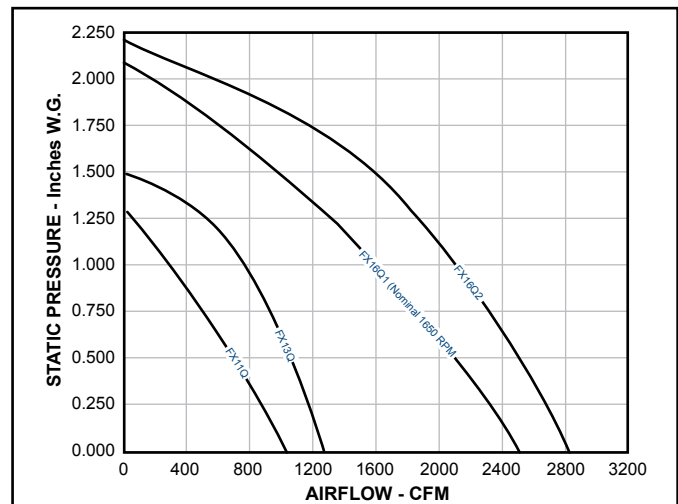
### > Nominal 1550 RPM



### > Nominal 1300 RPM



### > Nominal 1725 RPM



Fumex fans are only one component of a total system. As such, fan performance is directly affected by the system. It is critical that system designers determine the actual system loss to ensure that the actual flow is specified in the system design. Performance shown is for installation Type A: Free Inlet, Free Outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances in the air stream.

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## Performance Data & Belt Drive Losses

### › Performance Data

The belt drive models shown on the following pages have sizes and capacities ranging from below 250 CFM to above 30,000 CFM, with static pressures from 0" to 4". All models are available with a wide range of horsepower sizes and RPM's. Two-speed motors are commonly used to enhance this flexibility.

The data provided for each belt drive model includes:

- Elevation Drawing Showing Overall Dimensions
- Fan Curve Graph
- Performance Chart

Each curve graphically displays the range of capacities available for each model, in most cases beyond the specifics shown in the tabular data. The maximum performance afforded by each horsepower is indicated by dashed lines and the RPM is indicated by solid lines.

Some models have graphs that show both shaded and unshaded areas. Selection should be made from the unshaded area only. Shaded areas reflect unstable performance ("surge"), a characteristic typical of backward inclined wheels, and should be avoided. These unstable regions are not shown in the tabular data.

The highest RPM shown for a specific horsepower in the tabular data is the maximum speed that for any point along the performance curve, the BHP will not exceed the available horsepower.

It is important to note that while it is common industry-wide practice to exceed a "nominal" horsepower by using a motor's service factor, PennBarry uses a conservative portion of the service factor, allowing half to remain a true "safety" factor.

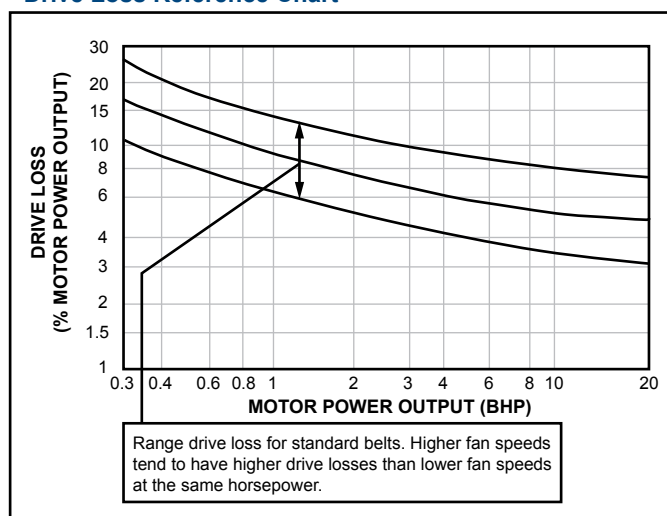
Use the Motor Availability chart (see Motor Selection) to select motor enclosures and voltages which can be installed in the fans.

**Note:** Fumex fans are only one component of a total system. As such, performance is directly affected by the system. It is critical that system designers determine actual system losses to ensure that the actual flow is specified in the system range.

### › Belt Drive Losses

The AMCA Review Committee has developed the chart shown below for the purpose of estimating belt drive losses. To calculate total BHP (including drive losses): Find the BHP of your operating point on the x-axis on the graph below. Follow the vertical line to the curves indicating the range of drive losses. Look at the y-axis on the left and find the drive loss percentage. Calculate the total BHP by adding the drive loss to the operating point BHP. For BHP's below 0.3, use 30%.

### › Drive Loss Reference Chart



**!** For totally enclosed, explosion proof, multi-speed and all 1.0 Service Factor motors, fan BHP plus drive losses should not exceed motor rated HP.

Graph reprinted from AMCA publication 203, with the express written permission from the Air Movement and Control Association, Inc., 30 West University Drive, Arlington Heights, IL 60004-1983.

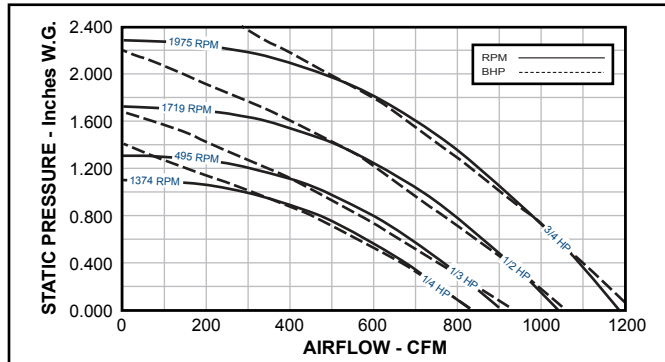
# Dimensional Information & Performance Data

Fumex | Belt Drive

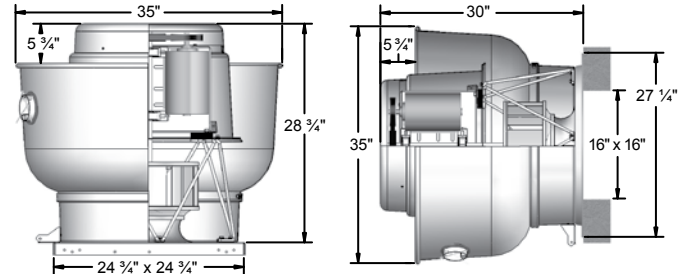


## FX08B

### FX08B Belt Drive Fan Curves



### FX08B Belt Drive Fan Dimensional Data



Galv. Steel Base = 16 Gage	Roof/Wall Opening = 16" SQ.	Peak BHP = (RPM/2126) <sup>3</sup>
Aluminum Base = 0.064	Damper Size = 15 1/4" SQ.	Max. RPM = 2085 (1 HP)
Discharge Apron = 0.064	Max. Motor Frame Size = 55	Est. Ship Weight = 96 lbs.*

\* Add 8 lbs. for Heat & Smoke option.

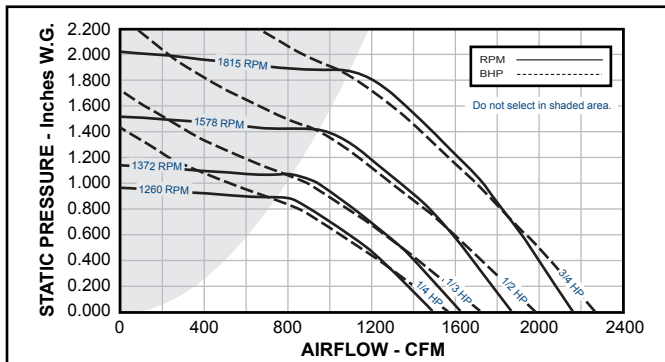
### FX08B Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.125" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	350	1191	208	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	525	1787	312	162	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	700	2382	416	320	163	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	875	2978	520	447	359	231	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1050	3574	624	563	497	422	324	108	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1225	4169	728	677	623	564	498	421	306	-	-	-	-	-	-	-	-	-	-	-	-	-
	1374	4676	817	771	724	674	619	560	493	407	275	-	-	-	-	-	-	-	-	-	-	-
			12.1	0.25	11.9	0.25	11.6	0.25	11.3	0.26	11.0	0.26	10.7	0.27	10.3	0.26	9.9	0.26	9.2	0.24	-	-
1/3	1410	4799	838	793	748	700	647	591	528	455	346	152	-	-	-	-	-	-	-	-	-	-
	1440	4901	856	812	767	722	670	616	557	489	394	252	-	-	-	-	-	-	-	-	-	-
	1470	5003	874	831	787	743	693	640	584	519	437	318	-	-	-	-	-	-	-	-	-	-
	1495	5088	889	846	804	760	711	660	605	543	472	366	-	-	-	-	-	-	-	-	-	-
1/2	1535	5224	912	871	830	787	741	692	639	582	518	429	-	-	-	-	-	-	-	-	-	-
	1565	5326	930	890	849	807	763	715	664	611	548	472	-	-	-	-	-	-	-	-	-	-
	1595	5428	948	909	869	828	785	738	689	637	578	511	-	-	-	-	-	-	-	-	-	-
	1630	5548	969	930	891	851	810	764	717	667	612	551	-	-	-	-	-	-	-	-	-	-
	1665	5667	990	952	914	875	835	790	745	696	646	587	-	-	-	-	-	-	-	-	-	-
	1695	5769	1008	970	933	895	856	813	768	721	672	616	-	-	-	-	-	-	-	-	-	-
	1719	5850	1022	985	948	911	872	830	787	741	693	640	-	-	-	-	-	-	-	-	-	-
			16.6	0.48	16.4	0.49	16.1	0.49	15.9	0.50	15.6	0.50	15.2	0.50	14.9	0.51	14.6	0.52	14.3	0.52	13.9	0.52
3/4	1755	5973	1043	1007	971	934	897	857	814	770	723	674	-	-	-	-	-	-	-	-	-	-
	1795	6109	1067	1032	997	961	924	886	844	802	757	711	-	-	-	-	-	-	-	-	-	-
	1830	6228	1088	1053	1019	984	948	911	870	829	786	741	-	-	-	-	-	-	-	-	-	-
	1860	6330	1106	1072	1038	1003	968	933	893	853	810	766	-	-	-	-	-	-	-	-	-	-
	1890	6432	1124	1090	1057	1023	988	953	915	875	834	791	-	-	-	-	-	-	-	-	-	-
	1920	6535	1141	1109	1076	1042	1008	974	937	898	858	816	-	-	-	-	-	-	-	-	-	-
	1950	6637	1159	1127	1095	1062	1028	995	959	920	882	841	-	-	-	-	-	-	-	-	-	-
			20	0.70	20	0.71	19.8	0.72	19.6	0.72	19.3	0.72	19.1	0.72	18.8	0.73	18.5	0.74	18.2	0.75	17.9	0.75
			1174	1142	1110	1078	1045	1012	977	939	901	861	-	-	-	-	-	-	-	-	-	-
	1975	6722	21	0.73	20	0.74	20	0.74	20	0.75	19.7	0.75	19.5	0.75	19.1	0.76	18.8	0.77	18.6	0.78	18.3	0.78

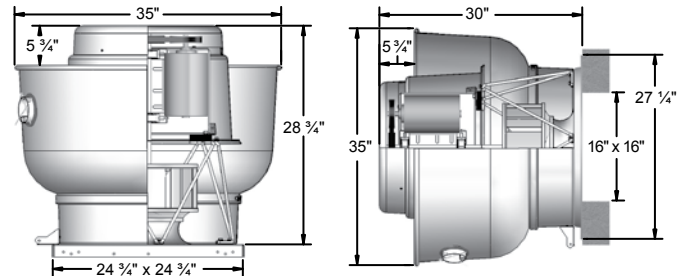
Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include drive losses. For further information on estimating belt drive losses and motor service factors see page 11. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

PENNBARRY 2019

## FX10B Belt Drive Fan Curves



## FX10B Belt Drive Fan Dimensional Data



Galv. Steel Base = 16 Gage	Roof/Wall Opening = 16" SQ.	Peak BHP = (RPM/1869) <sup>3</sup>
Aluminum Base = 0.064	Damper Size = 15 1/4" SQ.	Max. RPM = 2085 (1 1/2 HP)
Discharge Apron = 0.064	Max. Motor Frame Size = 56	Est. Ship Weight = 96 lbs.*

\* Add 8 lbs. for Heat & Smoke option.

## FX10B Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.125" SP		1.250" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	600	2042	714		543		-		-		-		-		-		-		-		-	
			5.9	0.02	5.7	0.03	-		-		-		-		-		-		-		-	
	750	2553	892		765		596		-		-		-		-		-		-		-	
			6.7	0.05	6.6	0.05	6.5	0.06	-		-		-		-		-		-		-	
	900	3063	1071		968		854		696		-		-		-		-		-		-	
			7.3	0.08	7.1	0.09	7.1	0.09	7.1	0.10	-		-		-		-		-		-	
	1000	3403	1190		1097		998		874		730		-		-		-		-		-	
			8.6	0.11	8.4	0.12	8.3	0.13	8.3	0.13	0.31	0.13	-		-		-		-		-	
1100	3744	1309		1225		1136		1042		915		780		-		-		-		-		
		10.4	0.14	10.2	0.15	10.0	0.16	9.9	0.17	9.9	0.18	9.9	0.18	-		-		-		-		
1260	4288	1499		1426		1352		1271		1187		1076		961		-		-		-		
		13.5	0.22	13.2	0.23	13.0	0.24	12.7	0.25	12.6	0.26	12.6	0.26	12.6	0.26	-		-		-		
1/3	1300	4424	1547		1476		1404		1327		1249		1144		1035		-		-		-	
			13.9	0.24	13.6	0.25	13.4	0.26	13.1	0.27	13.0	0.28	12.9	0.29	12.9	0.29	-		-		-	
	1325	4509	1577		1507		1437		1361		1285		1187		1080		-		-		-	
			14.2	0.25	13.9	0.26	13.7	0.28	13.4	0.29	13.2	0.30	13.1	0.30	13.1	0.31	-		-		-	
	1350	4595	1607		1538		1469		1396		1320		1229		1125		892		-		-	
			14.4	0.27	14.2	0.28	13.9	0.29	13.7	0.30	13.4	0.31	13.4	0.32	13.3	0.32	13.3	0.32	-		-	
	1372	4669	1633		1565		1497		1426		1352		1266		1164		943		-		-	
			14.7	0.28	14.5	0.29	14.2	0.31	13.9	0.32	13.7	0.33	13.6	0.33	13.5	0.34	13.5	0.34	-		-	
1/2	1390	4731	1654		1587		1521		1450		1377		1296		1195		984		-		-	
			15.0	0.29	14.7	0.30	14.5	0.32	14.2	0.33	13.9	0.34	13.8	0.35	13.6	0.35	13.6	0.35	-		-	
	1420	4833	1690		1624		1559		1491		1419		1345		1247		1044		909		-	
			15.4	0.31	15.2	0.32	14.9	0.34	14.6	0.35	14.3	0.36	14.1	0.37	13.9	0.37	13.9	0.38	13.9	0.38	-	
	1450	4935	1726		1662		1597		1531		1461		1391		1298		1100		988		-	
			15.9	0.33	15.7	0.34	15.4	0.36	15.1	0.37	14.8	0.38	14.6	0.39	14.4	0.40	14.3	0.40	14.3	0.40	-	
	1475	5020	1755		1692		1629		1565		1496		1427		1340		1147		1045		-	
			16.3	0.35	16.1	0.36	15.9	0.38	15.6	0.39	15.3	0.40	15.0	0.41	14.8	0.42	14.6	0.42	14.6	0.42	-	
	1500	5105	1785		1723		1661		1599		1531		1463		1382		1193		1096		968	
			16.7	0.36	16.5	0.38	16.3	0.39	16.0	0.41	15.7	0.42	15.4	0.43	15.1	0.44	14.9	0.44	14.9	0.44	14.9	0.44
1525	5190	1815		1754		1693		1632		1565		1498		1423		1239		1143		1034		
		17.0	0.38	16.8	0.40	16.6	0.41	16.3	0.43	15.9	0.44	15.6	0.45	15.3	0.46	15.0	0.47	15.0	0.47	15.0	0.47	
1550	5275	1845		1785		1725		1665		1600		1534		1465		1284		1190		1091		
		17.2	0.40	17.0	0.42	16.8	0.43	16.5	0.45	16.2	0.46	15.8	0.47	15.6	0.48	15.1	0.49	15.1	0.49	15.1	0.49	
1578	5371	1878		1819		1760		1701		1638		1573		1509		1333		1241		1149		
		17.4	0.42	17.2	0.44	17.0	0.46	16.8	0.47	16.4	0.48	16.1	0.49	15.8	0.51	15.3	0.52	15.3	0.52	15.3	0.52	
3/4	1600	5445	1904		1846		1788		1730		1668		1604		1541		1371		1282		1191	
			17.6	0.44	17.4	0.46	17.2	0.47	16.9	0.49	16.6	0.50	16.3	0.51	16.0	0.53	15.4	0.54	15.4	0.54	15.4	0.54
	1630	5548	1940		1883		1826		1769		1709		1646		1584		1423		1336		1247	
			17.8	0.47	17.6	0.48	17.4	0.50	17.2	0.52	16.9	0.53	16.6	0.54	16.2	0.55	15.5	0.57	15.5	0.57	15.5	0.57
	1660	5650	1976		1920		1864		1808		1749		1688		1627		1474		1390		1302	
			18.0	0.49	17.9	0.51	17.7	0.53	17.5	0.54	17.2	0.56	16.9	0.57	16.5	0.58	15.8	0.60	15.7	0.60	15.7	0.60
	1695	5769	2017		1962		1908		1853		1796		1736		1676		1534		1451		1367	
			18.4	0.53	18.2	0.54	18.1	0.56	17.9	0.58	17.6	0.59	17.3	0.60	16.9	0.62	16.2	0.63	16.0	0.64	16.0	0.64
	1730	5888	2059		2005		1952		1898		1843		1784		1726		1592		1511		1430	
			18.8	0.56	18.6	0.58	18.5	0.59	18.3	0.61	18.0	0.63	17.7	0.64	17.4	0.65	16.7	0.67	16.3	0.68	16.3	0.68
	1765	6007	2101		2048		1995		1943		1890		1832		1775		1650		1571		1492	
			19.3	0.59	19.2	0.61	19.0	0.63	18.9	0.65	18.6	0.66	18.3	0.68	18.0	0.69	17.3	0.71	16.8	0.72	16.7	0.72
1790	6092	2130		2078		2027		1975		1923		1866		1810		1692		1613		1535		
		19.8	0.62	19.6	0.64	19.5	0.66	19.4	0.67	19.0	0.69	18.7	0.70	18.4	0.72	17.7	0.74	17.3	0.75	17.0	0.75	
1815	6177	2160		2109		2058		2007		1955		1900		1844		1732		1655		1578		
		20.0	0.65	20.0	0.66	20.0	0.68	19.9	0.70	19.6	0.72	19.2	0.73	18.9	0.75	18.2	0.77	17.8	0.78	17.3	0.78	

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include drive losses. For further information on estimating belt drive losses and motor service factors see page 11. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

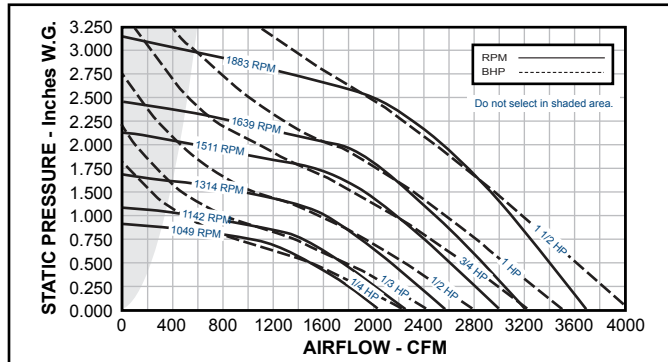
# Dimensional Information & Performance Data

Fumex | Belt Drive

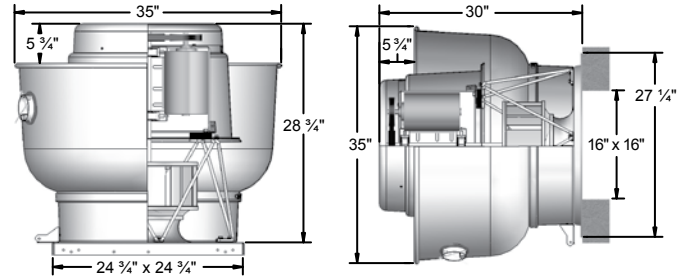


## FX12BH

### FX12BH Belt Drive Fan Curves



### FX12BH Belt Drive Fan Dimensional Data



Galv. Steel Base = 16 Gage	Roof/Wall Opening = 16" SQ.	Peak BHP = (RPM/1632) <sup>3</sup>
Aluminum Base = 0.064	Damper Size = 15 1/4" SQ.	Max. RPM = 2440 (1 HP)
Discharge Apron = 0.064	Max. Motor Frame Size = 56	Est. Ship Weight = 109 lbs.*

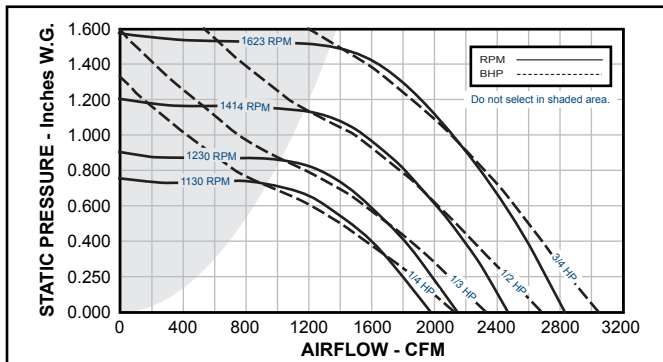
\* Add 8 lbs. for Heat & Smoke option.

### FX12BH Belt Drive Fan Performance Data

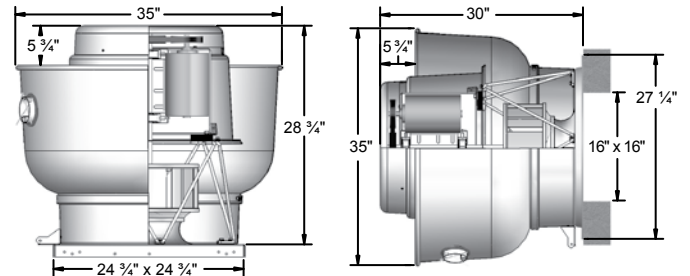
HP	RPM	Tip Speed FPM	0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	840	3491	1320		794		-		-		-		-		-		-		-		-	
			7.4	0.13	7.0	0.13	-		-		-		-		-		-		-			
	880	3657	1416		1005		-		-		-		-		-		-		-		-	
			8.4	0.14	7.7	0.16	-		-		-		-		-		-		-			
	920	3824	1509		1140		-		-		-		-		-		-		-		-	
			9.0	0.16	8.4	0.18	-		-		-		-		-		-		-			
	970	4031	1624		1299		500		-		-		-		-		-		-		-	
			9.2	0.19	8.8	0.21	9.1	0.16	-		-		-		-		-		-		-	
1049	4360	1801		1518		1105		-		-		-		-		-		-		-		
		10.1	0.23	9.8	0.26	10.0	0.26	-		-		-		-		-		-		-		
1/3	1105	4592	1924		1661		1325		425		-		-		-		-		-		-	
			10.8	0.27	10.6	0.29	10.6	0.31	10.9	0.22	-		-		-		-		-		-	
	1142	4746	2004		1754		1445		776		-		-		-		-		-		-	
11.1			0.29	10.9	0.32	11.0	0.34	11.3	0.29	-		-		-		-		-		-		
1/2	1175	4883	2075		1836		1551		1028		-		-		-		-		-		-	
			11.5	0.32	11.2	0.35	11.2	0.37	11.7	0.35	-		-		-		-		-		-	
	1200	4987	2128		1897		1626		1212		-		-		-		-		-		-	
			11.8	0.34	11.6	0.37	11.4	0.39	12.0	0.39	-		-		-		-		-		-	
	1235	5133	2203		1981		1725		1382		470		-		-		-		-		-	
			12.1	0.37	12.1	0.40	11.8	0.42	12.4	0.43	12.5	0.31	-		-		-		-		-	
1280	5320	2298		2085		1846		1543		896		-		-		-		-		-		
		12.4	0.40	12.7	0.44	12.4	0.46	12.7	0.48	13.1	0.42	-		-		-		-		-		
		1314	5461	2369		2164		1934		1654		1151		-		-		-		-		-
3/4	1340	5569	2423		2224		2000		1738		1343		374		-		-		-		-	
			12.8	0.46	13.4	0.50	13.3	0.53	13.4	0.55	14.1	0.54	14.0	0.36	-		-		-		-	
	1375	5715	2496		2304		2089		1847		1522		737		-		-		-		-	
			13.1	0.49	13.8	0.53	13.8	0.57	13.8	0.59	14.6	0.59	14.6	0.48	-		-		-		-	
	1400	5818	2547		2360		2151		1918		1622		963		-		-		-		-	
			13.2	0.52	14.1	0.56	14.1	0.59	14.2	0.62	14.7	0.63	15.0	0.54	-		-		-		-	
	1435	5964	2620		2439		2238		2017		1738		1228		-		-		-		-	
			13.5	0.56	14.5	0.60	14.6	0.64	14.7	0.66	13.4	0.55	15.7	0.63	-		-		-		-	
	1462	6076	2675		2500		2305		2090		1826		1428		564		-		-		-	
13.9			0.59	14.9	0.63	15.0	0.67	15.1	0.69	15.5	0.71	16.2	0.69	16.1	0.51	-		-		-		
1511	6280	2775		2609		2422		2217		1984		1686		1029		-		-		-		
		14.7	0.65	15.7	0.69	16.0	0.73	16.0	0.76	16.2	0.78	17.0	0.79	17.0	0.68	-		-		-		
		2835	2672	2490	2291	2073	1799	1253	-		-		-		-		-		-			
1	1540	6400	15.0		0.68		15.9	0.73	16.3	0.77	16.3	0.80	16.5	0.82	17.2	0.83	17.6	0.76	-		-	
			2928	2772	2597	2408	2204	1950	1593	835	-		-		-		-		-			
	1586	6592	15.5		0.74		16.3	0.79	16.7	0.83	16.8	0.87	16.9	0.89	17.4	0.91	18.4	0.89	18.3	0.73	-	
			2957	2802	2629	2443	2243	1996	1675	964	-		-		-		-		-			
	1639	6812	15.7		0.76		16.4	0.81	16.9	0.85	16.9	0.89	17.1	0.92	17.6	0.93	18.6	0.93	18.5	0.78	-	
3036			2886	2719	2540	2349	2121	1850	1285	-		-		-		-		-				
1 1/2	1675	6961	3109		2963		2801		2629		2442		2236		1981		1552		817		-	
			16.7	0.87	17.3	0.92	17.8	0.97	17.8	1.01	17.9	1.04	18.2	1.06	19.0	1.07	19.7	1.02	19.6	0.84	-	
	1750	7273	3261		3123		2971		2809		2633		2449		2226		1969		1448		701	
			18.0	0.98	18.4	1.04	18.8	1.09	18.8	1.14	18.8	1.17	18.8	1.20	19.5	1.22	21.0	1.22	21.0	1.13	21.0	0.89
	1825	7585	3412		3282		3139		2984		2821		2650		2461		2231		1955		1381	
			19.4	1.11	19.7	1.17	19.9	1.22	19.9	1.27	19.8	1.31	19.8	1.34	20.0	1.37	21.0	1.38	22.0	1.38	22.0	1.24
1883	7826	3529		3402		3266		3117		2965		2798		2625		2419		2193		1812		
		21.0	1.22	21.0	1.28	21.0	1.33	21.0	1.38	21.0	1.43	21.0	1.46	21.0	1.49	21.0	1.51	22.0	1.53	23.0	1.47	

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include drive losses. For further information on estimating belt drive losses and motor service factors see page 11. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

## FX13B Belt Drive Fan Curves



## FX13B Belt Drive Fan Dimensional Data



Galv. Steel Base = 16 Gage	Roof/Wall Opening = 16" SQ.	Peak BHP = (RPM/1751) <sup>3</sup>
Aluminum Base = 0.064	Damper Size = 15 1/4" SQ.	Max. RPM = 2202 (1 1/2 HP)
Discharge Apron = 0.064	Max. Motor Frame Size = 56	Est. Ship Weight = 110 lbs.*

\* Add 8 lbs. for Heat & Smoke option.

## FX13B Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.000" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.375" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	500	1800	874	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	650	2340	1137	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	800	2880	1399	1052	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	978	3521	1710	1452	1284	1026	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1055	3798	1845	1608	1471	1281	928	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1130	4068	1976	1755	1635	1485	1281	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/3	1160	4176	2029	1814	1699	1559	1377	1054	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1185	4266	2072	1862	1751	1619	1448	1196	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1210	4356	2116	1911	1804	1679	1519	1303	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1230	4428	2151	1950	1845	1727	1574	1378	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			15.0 0.26	14.4 0.30	14.2 0.32	13.8 0.33	13.3 0.34	12.6 0.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/2	1255	4518	2195	1998	1895	1782	1639	1458	1152	-	-	-	-	-	-	-	-	-	-	-	-	-
	1280	4608	2239	2046	1945	1835	1701	1535	1292	-	-	-	-	-	-	-	-	-	-	-	-	-
	1305	4698	2282	2094	1994	1889	1762	1606	1401	-	-	-	-	-	-	-	-	-	-	-	-	-
	1330	4788	2326	2142	2044	1942	1823	1676	1493	1130	-	-	-	-	-	-	-	-	-	-	-	-
	1355	4878	2370	2190	2093	1995	1883	1746	1573	1314	-	-	-	-	-	-	-	-	-	-	-	-
			16.5 0.35	16.0 0.40	15.7 0.41	15.4 0.43	15.0 0.44	14.4 0.45	13.7 0.46	13.4 0.45	-	-	-	-	-	-	-	-	-	-	-	-
	1375	4950	2405	2228	2132	2037	1931	1796	1636	1413	-	-	-	-	-	-	-	-	-	-	-	-
	1400	5040	2449	2275	2181	2089	1985	1858	1708	1516	-	-	-	-	-	-	-	-	-	-	-	-
			16.9 0.39	16.4 0.43	16.2 0.45	15.9 0.47	15.5 0.49	15.0 0.50	14.3 0.51	13.8 0.51	-	-	-	-	-	-	-	-	-	-	-	-
	1414	5090	2473	2302	2208	2118	2015	1892	1747	1568	-	-	-	-	-	-	-	-	-	-	-	-
3/4			17.1 0.40	16.6 0.45	16.3 0.47	16.0 0.48	15.7 0.50	15.2 0.51	14.5 0.52	13.9 0.52	-	-	-	-	-	-	-	-	-	-	-	-
	1445	5202	2527	2360	2269	2180	2082	1968	1834	1671	-	-	-	-	-	-	-	-	-	-	-	-
			17.4 0.43	16.9 0.47	16.6 0.49	16.4 0.51	16.0 0.53	15.6 0.54	15.0 0.55	14.3 0.56	-	-	-	-	-	-	-	-	-	-	-	-
	1470	5292	2571	2408	2317	2230	2135	2028	1903	1749	-	-	-	-	-	-	-	-	-	-	-	-
			17.7 0.45	17.2 0.50	16.9 0.52	16.7 0.54	16.3 0.55	15.9 0.57	15.3 0.58	14.6 0.59	-	-	-	-	-	-	-	-	-	-	-	-
	1495	5382	2615	2455	2366	2280	2188	2088	1965	1821	1341	-	-	-	-	-	-	-	-	-	-	-
			18.0 0.47	17.6 0.52	17.3 0.54	17.0 0.56	16.7 0.58	16.3 0.60	15.7 0.60	15.1 0.61	14.4 0.59	-	-	-	-	-	-	-	-	-	-	-
	1525	5490	2667	2511	2424	2339	2251	2156	2039	1906	1521	-	-	-	-	-	-	-	-	-	-	-
			18.5 0.50	18.0 0.55	17.7 0.57	17.4 0.59	17.1 0.61	16.8 0.63	16.2 0.64	15.6 0.65	14.7 0.65	-	-	-	-	-	-	-	-	-	-	-
	1550	5580	2711	2558	2472	2388	2304	2210	2100	1975	1637	-	-	-	-	-	-	-	-	-	-	-
			18.9 0.53	18.4 0.58	18.1 0.60	17.8 0.62	17.6 0.64	17.3 0.66	16.7 0.67	16.1 0.68	15.0 0.69	-	-	-	-	-	-	-	-	-	-	-
	1575	5670	2755	2604	2520	2437	2356	2264	2160	2043	1731	1455	-	-	-	-	-	-	-	-	-	-
Fumex			19.3 0.55	18.9 0.61	18.6 0.63	18.3 0.65	18.0 0.67	17.7 0.69	17.3 0.70	16.7 0.71	15.3 0.72	15.3 0.70	-	-	-	-	-	-	-	-	-	-
	1600	5760	2798	2651	2568	2486	2406	2317	2220	2105	1818	1597	-	-	-	-	-	-	-	-	-	-
			19.6 0.58	19.2 0.63	18.9 0.66	18.6 0.68	18.3 0.70	18.0 0.72	17.6 0.73	17.0 0.74	15.6 0.76	15.5 0.75	-	-	-	-	-	-	-	-	-	-
X			2839	2694	2612	2531	2452	2366	2275	2161	1892	1707	-	-	-	-	-	-	-	-	-	-
	1623	5842	19.9 0.60	19.4 0.66	19.2 0.68	18.9 0.70	18.6 0.73	18.3 0.74	18.0 0.76	17.3 0.77	16.0 0.79	15.7 0.79	-	-	-	-	-	-	-	-	-	-

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include drive losses. For further information on estimating belt drive losses and motor service factors see page 11. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

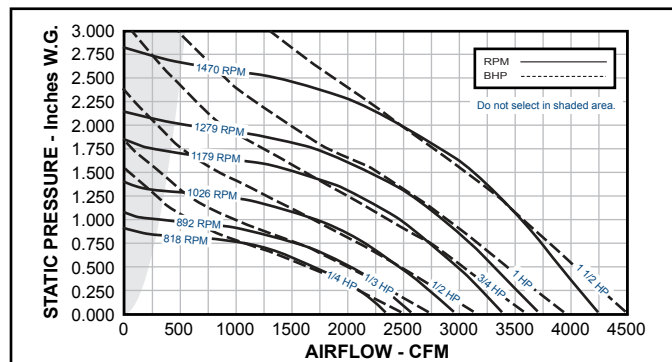
# Dimensional Information & Performance Data

Fumex | Belt Drive

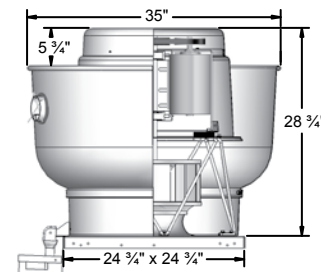


## FX13BHFT

### FX13BHFT Belt Drive Fan Curves



### FX13BHFT Belt Drive Fan Dimensional Data



Galv. Steel Base = 16 Gage	Roof/Wall Opening = 16" SQ.	Peak BHP = (RPM/1277) <sup>3</sup>
Aluminum Base = 0.064	Damper Size = 15 1/4" SQ.	Max. RPM = 1875 (1 1/2 HP)
Discharge Apron = 0.064	Max. Motor Frame Size = 56	Est. Ship Weight = 115 lbs.*

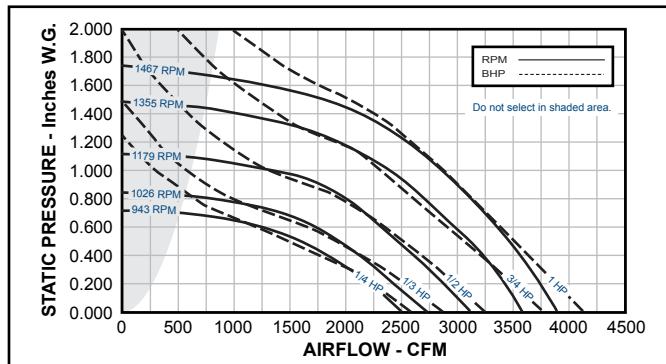
\* Add 8 lbs. for Heat & Smoke option.

### FX13BHFT Belt Drive Fan Performance Data

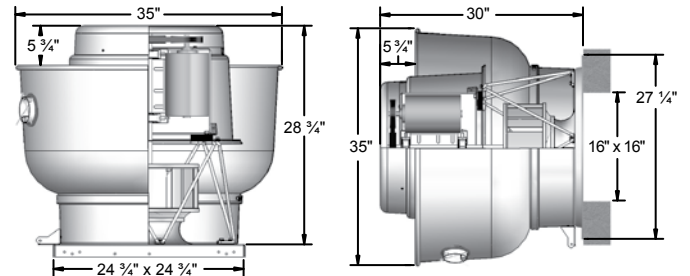
HP	RPM	Tip Speed FPM	0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	750	3670	1817		1312		-		-		-		-		-		-		-		-	
	818	4002	2046	7.2 0.19	1645	6.7 0.20	915		-		-		-		-		-		-		-	
1/3	850	4159	2152	7.9 0.25	1781	7.4 0.26	1168		-		-		-		-		-		-		-	
	892	4365	2289	8.4 0.27	1953	7.7 0.28	1463		-		-		-		-		-		-		-	
1/2	925	4526	2395	9.3 0.31	2080	8.8 0.33	1641		-		-		-		-		-		-		-	
	950	4648	2476		2176	9.4 0.37	1769		-		-		-		-		-		-		-	
	975	4771	2554	10.3 0.38	2270	9.8 0.40	1888		-		-		-		-		-		-		-	
	1000	4893	2630	10.7 0.41	2360	10.1 0.43	2006		-		-		-		-		-		-		-	
	1026	5020	2709	11.3 0.44	2451	10.6 0.46	2119		-		-		-		-		-		-		-	
	1050	5138	2782	11.8 0.47	2534	11.1 0.50	2218		-		-		-		-		-		-		-	
3/4	1075	5260	2858	12.3 0.50	2619	11.6 0.53	2321		-		-		-		-		-		-		-	
	1100	5382	2933		2705	12.2 0.57	2421		-		-		-		-		-		-		-	
	1125	5505	3008	13.6 0.57	2788	12.8 0.60	2518		-		-		-		-		-		-		-	
	1150	5627	3083	14.2 0.61	2871	13.4 0.64	2613		-		-		-		-		-		-		-	
	1179	5769	3169	14.9 0.70	2967	13.7 0.68	2723		-		-		-		-		-		-		-	
	1200	5872	3232		3036	14.1 0.73	2802		-		-		-		-		-		-		-	
1	1225	5994	3306	15.2 0.74	3118	14.4 0.77	2891		-		-		-		-		-		-		-	
	1255	6141	3396	15.6 0.79	3216	14.8 0.82	2996		-		-		-		-		-		-		-	
	1279	6258	3467	16.1 0.84	3294	15.2 0.88	3079		-		-		-		-		-		-		-	
	1300	6361	3529	16.5 0.89	3362	15.6 0.93	3151		-		-		-		-		-		-		-	
1 1/2	1325	6483	3603		3442	15.9 0.97	3237		-		-		-		-		-		-		-	
	1360	6655	3706	17.3 0.99	3554	16.5 1.02	3355		-		-		-		-		-		-		-	
	1400	6850	3824		3677	16.8 1.06	3489		-		-		-		-		-		-		-	
	1425	6973	3897	17.9 1.07	3753	17.1 1.10	3572		-		-		-		-		-		-		-	
	1450	7095	3972	18.5 1.16	3829	17.7 1.20	3654		-		-		-		-		-		-		-	
	1470	7193	4032	18.9 1.22	3889	18.1 1.26	3720		-		-		-		-		-		-		-	
				19.3 1.29		18.5 1.33			-		-		-		-		-		-		-	
				19.5 1.34		18.7 1.38			-		-		-		-		-		-		-	

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include drive losses. For further information on estimating belt drive losses and motor service factors see page 11. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

## FX14B Belt Drive Fan Curves



## FX14B Belt Drive Fan Dimensional Data



Galv. Steel Base = 16 Gage	Roof/Wall Opening = 16" SQ.	Peak BHP = (RPM/1462) <sup>3</sup>
Aluminum Base = 0.064	Damper Size = 15 1/4" SQ.	Max. RPM = 2085 (1 1/2 HP)
Discharge Apron = 0.064	Max. Motor Frame Size = 56	Est. Ship Weight = 112 lbs.*

\* Add 11 lbs. for Heat & Smoke option.

## FX14B Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.000" SP		0.250" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.375" SP		1.500" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	400	1662	1061	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	550	2286	4.8 0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	690	2868	4.9 0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	815	3387	1830	1283	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	880	3657	7.8 0.09	6.9 0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	943	3919	2162	1743	673	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/3	975	4052	10.2 0.14	9.3 0.17	8.0 0.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1000	4156	2334	1955	1367	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1026	4264	11.8 0.18	11.1 0.21	9.8 0.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1050	4364	2502	2154	1673	1230	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/2	1075	4468	13.0 0.22	12.3 0.26	11.0 0.27	10.4 0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1100	4572	13.6 0.25	12.8 0.28	11.5 0.30	11.0 0.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1130	4696	2653	2330	1914	1615	887	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1160	4821	14.0 0.26	13.3 0.30	12.0 0.32	11.5 0.32	10.8 0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1179	4900	2722	2410	2019	1738	1267	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1210	5029	14.3 0.29	13.7 0.32	12.5 0.35	12.0 0.35	11.4 0.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1240	5154	2785	2483	2110	1850	1504	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1270	5278	14.7 0.31	14.1 0.35	13.0 0.37	12.4 0.37	12.1 0.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4	1300	5403	2852	2559	2198	1963	1659	838	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1330	5528	15.2 0.33	14.5 0.37	13.4 0.39	12.9 0.40	12.6 0.39	12.2 0.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1355	5631	2918	2634	2285	2067	1791	1269	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1385	5756	15.8 0.35	15.0 0.39	13.8 0.42	13.3 0.43	13.0 0.43	12.6 0.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1405	5839	2998	2724	2388	2189	1933	1593	657	-	-	-	-	-	-	-	-	-	-	-	-	-
	1430	5943	16.6 0.38	15.9 0.43	14.6 0.45	14.0 0.46	13.5 0.46	13.3 0.44	13.2 0.33	-	-	-	-	-	-	-	-	-	-	-	-	-
	1450	6026	3077	2812	2490	2309	2072	1786	1147	-	-	-	-	-	-	-	-	-	-	-	-	-
	1467	6097	17.4 0.41	16.7 0.46	15.6 0.49	14.9 0.50	14.4 0.50	14.2 0.49	13.9 0.44	-	-	-	-	-	-	-	-	-	-	-	-	-
1	1485	6170	3128	2867	2553	2377	2157	1889	1394	-	-	-	-	-	-	-	-	-	-	-	-	-
	1510	6274	18.1 0.43	17.4 0.48	16.2 0.51	15.6 0.52	15.0 0.52	14.9 0.52	14.7 0.49	-	-	-	-	-	-	-	-	-	-	-	-	-
	1535	6378	3210	2956	2654	2485	2284	2038	1718	-	-	-	-	-	-	-	-	-	-	-	-	-
	1560	6482	19.1 0.47	18.4 0.52	17.2 0.55	16.6 0.56	16.1 0.57	15.9 0.57	15.8 0.54	-	-	-	-	-	-	-	-	-	-	-	-	-
	1585	6586	3290	3043	2750	2590	2406	2178	1909	-	-	-	-	-	-	-	-	-	-	-	-	-
	1610	6690	19.4 0.50	18.7 0.55	17.5 0.59	16.8 0.60	16.3 0.61	16.0 0.61	15.9 0.60	-	-	-	-	-	-	-	-	-	-	-	-	-
	1635	6794	3369	3129	2846	2693	2526	2315	2067	812	-	-	-	-	-	-	-	-	-	-	-	-
	1660	6898	19.4 0.54	18.7 0.59	17.6 0.63	17.0 0.64	16.5 0.65	16.0 0.65	15.8 0.65	15.8 0.48	-	-	-	-	-	-	-	-	-	-	-	-
1	1685	6997	3449	3214	2941	2795	2634	2439	2209	1324	-	-	-	-	-	-	-	-	-	-	-	-
	1710	7101	19.6 0.58	18.9 0.63	17.9 0.67	17.3 0.69	16.8 0.70	16.2 0.70	15.9 0.70	15.8 0.62	-	-	-	-	-	-	-	-	-	-	-	-
	1735	7205	3528	3300	3035	2893	2738	2561	2349	1698	829	-	-	-	-	-	-	-	-	-	-	-
	1760	7309	19.9 0.62	19.2 0.68	18.3 0.72	17.7 0.73	17.1 0.74	16.6 0.75	16.2 0.75	15.9 0.71	15.9 0.55	-	-	-	-	-	-	-	-	-	-	-
	1785	7413	3595	3371	3113	2974	2825	2662	2464	1938	1241	-	-	-	-	-	-	-	-	-	-	-
	1810	7517	20.0 0.66	19.6 0.72	18.6 0.76	18.0 0.77	17.5 0.78	17.0 0.79	16.5 0.79	16.1 0.76	16.1 0.67	-	-	-	-	-	-	-	-	-	-	-
	1835	7621	3674	3456	3206	3070	2928	2777	2588	2126	1665	817	-	-	-	-	-	-	-	-	-	-
	1860	7725	21.0 0.70	20.0 0.76	19.2 0.80	18.6 0.82	18.0 0.83	17.5 0.85	17.0 0.85	16.3 0.83	16.3 0.79	16.3 0.61	-	-	-	-	-	-	-	-	-	-
1	1885	7829	3727	3512	3268	3134	2997	2848	2670	2235	1893	1054	-	-	-	-	-	-	-	-	-	-
	1910	7933	21.0 0.73	20.0 0.79	19.6 0.84	19.0 0.85	18.5 0.87	17.9 0.88	17.4 0.89	16.6 0.88	16.6 0.79	16.6 0.70	-	-	-	-	-	-	-	-	-	-
	1935	8037	3794	3583	3344	3214	3081	2935	2771	2359	2093	1529	-	-	-	-	-	-	-	-	-	-
	1960	8141	22.0 0.77	21.0 0.84	20.0 0.88	19.7 0.90	19.1 0.91	18.5 0.93	18.0 0.93	17.0 0.93	16.9 0.90	16.9 0.84	-	-	-	-	-	-	-	-	-	-
1	1985	8245	3847	3639	3405	3277	3147	3005	2852	2454	2216	1780	-	-	-	-	-	-	-	-	-	-
	2010	8349	22.0 0.81	22.0 0.87	21.0 0.91	20.0 0.93	19.6 0.95	19.0 0.96	18.5 0.97	17.4 0.97	17.1 0.96	17.1 0.91	-	-	-	-	-	-	-	-	-	-
	2035	8453	3892	3687	3457	3331	3202	3063	2919	2533	2309	1972	-	-	-	-	-	-	-	-	-	-
	2060	8557	23.0 0.83	22.0 0.90	21.0 0.94	21.0 0.97	20.0 0.98	19.5 0.99	19.0 1.01	17.8 1.01	17.4 1.00	17.4 0.96	-	-	-	-	-	-	-	-	-	-

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include drive losses. For further information on estimating belt drive losses and motor service factors see page 11. The sound ratings shown are for loudness values in fan sones at 50' (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

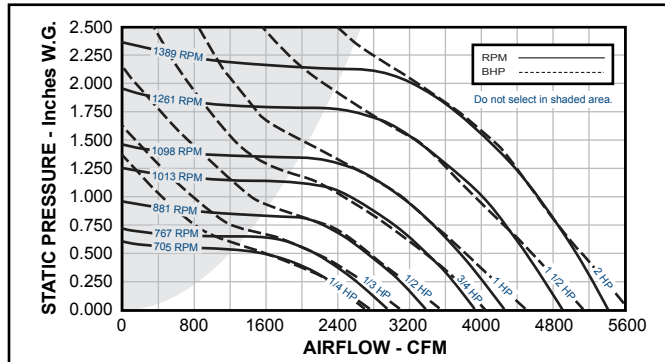
# Dimensional Information & Performance Data

Fumex | Belt Drive

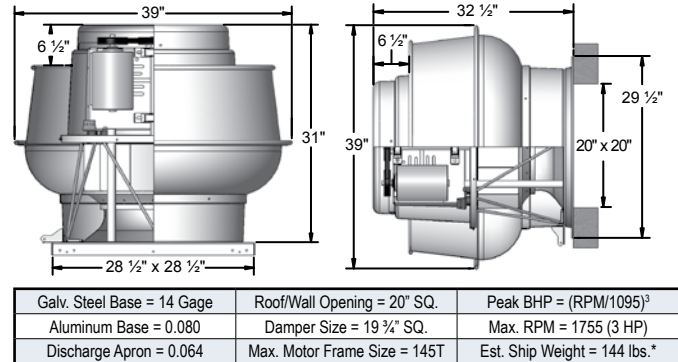


## FX16B

### FX16B Belt Drive Fan Curves



### FX16B Belt Drive Fan Dimensional Data



\* Add 11 lbs. for Heat & Smoke option.

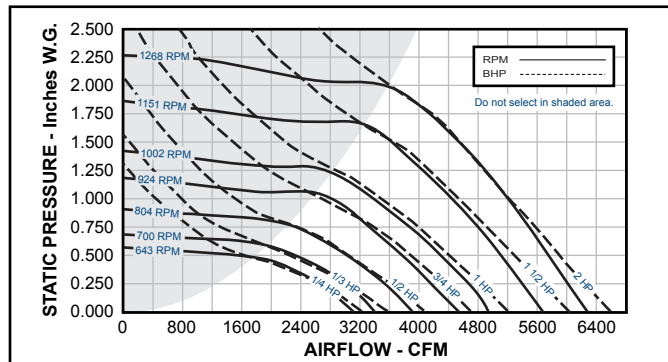
### FX16B Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.000" SP		0.250" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.375" SP		1.500" SP		1.750" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	500	2446	1999		1280		-		-		-		-		-		-		-		-	
			6.0	0.08	5.2	0.09	-		-		-		-		-		-		-		-	
	609	2979	2435		1951		-		-		-		-		-		-		-		-	
			8.8	0.15	8.1	0.17	-		-		-		-		-		-		-		-	
1/3	660	3229	2639		2213		-		-		-		-		-		-		-		-	
			9.7	0.19	9.2	0.21	-		-		-		-		-		-		-		-	
	705	3449	2819		2426		1791		-		-		-		-		-		-		-	
			10.7	0.23	10.1	0.26	8.1	0.26	-		-		-		-		-		-		-	
1/2	725	3547	2899		2518		1971		-		-		-		-		-		-		-	
			11.1	0.25	10.6	0.28	8.6	0.29	-		-		-		-		-		-		-	
	745	3645	2979		2611		2111		-		-		-		-		-		-		-	
			11.6	0.27	11.1	0.30	9.2	0.32	-		-		-		-		-		-		-	
3/4	767	3752	3067		2712		2247		1770		-		-		-		-		-		-	
			12.0	0.30	11.5	0.33	9.8	0.34	8.6	0.33	-		-		-		-		-		-	
	800	3914	3199		2862		2434		2109		-		-		-		-		-		-	
			12.6	0.34	11.9	0.37	10.5	0.39	9.4	0.39	-		-		-		-		-		-	
1	830	4061	3319		2997		2596		2342		1791		-		-		-		-		-	
			13.2	0.38	12.4	0.41	11.2	0.43	10.2	0.44	9.2	0.41	-		-		-		-		-	
	855	4183	3419		3106		2727		2497		2109		-		-		-		-		-	
			13.7	0.41	12.9	0.45	11.7	0.47	10.9	0.48	9.8	0.46	-		-		-		-		-	
1 1/2	881	4310	3523		3219		2862		2645		2352		-		-		-		-		-	
			14.3	0.45	13.5	0.49	12.3	0.51	11.6	0.52	10.6	0.52	-		-		-		-		-	
	920	4501	3679		3387		3062		2860		2635		-		-		-		-		-	
			15.3	0.51	14.4	0.55	13.3	0.57	12.6	0.58	11.9	0.60	-		-		-		-		-	
2	955	4672	3819		3536		3233		3044		2841		2011		-		-		-		-	
			16.3	0.57	15.5	0.61	14.4	0.64	13.7	0.65	13.0	0.66	11.1	0.61	-		-		-		-	
	985	4819	3939		3664		3374		3200		3010		2412		-		-		-		-	
			17.0	0.63	16.1	0.67	15.0	0.70	14.4	0.71	13.8	0.72	11.8	0.71	-		-		-		-	
2 1/2	1013	4956	4051		3783		3505		3344		3160		2678		-		-		-		-	
			17.5	0.68	16.6	0.72	15.6	0.76	15.0	0.77	14.4	0.78	12.7	0.79	-		-		-		-	
	1045	5112	4179		3918		3653		3506		3329		2930		-		-		-		-	
			18.2	0.75	17.2	0.79	16.2	0.83	15.7	0.84	15.1	0.85	13.7	0.87	-		-		-		-	
3	1070	5235	4279		4023		3768		3626		3459		3092		2287		-		-		-	
			18.7	0.81	17.8	0.84	16.8	0.89	16.3	0.90	15.7	0.91	14.4	0.94	12.8	0.86	-		-		-	
	1098	5372	4391		4141		3896		3757		3603		3253		2662		-		-		-	
			19.4	0.87	18.5	0.91	17.7	0.96	17.2	0.97	16.6	0.98	15.3	1.00	13.4	0.98	-		-		-	
3 1/2	1140	5577	4559		4317		4087		3953		3817		3491		3060		2656		-		-	
			21.0	0.97	19.9	1.01	19.1	1.07	18.6	1.08	18.1	1.09	16.9	1.11	15.0	1.13	14.1	1.08	-		-	
	1180	5773	4719		4484		4267		4138		4009		3704		3352		3069		2634		-	
			22.0	1.08	21.0	1.12	20.0	1.18	20.0	1.19	19.4	1.20	18.3	1.23	16.8	1.26	15.7	1.24	14.9	1.18	-	
4	1220	5969	4879		4652		4440		4321		4196		3913		3594		3397		3093		-	
			23.0	1.19	22.0	1.23	22.0	1.29	21.0	1.31	21.0	1.33	19.5	1.35	18.1	1.38	17.3	1.39	16.2	1.36	-	
	1261	6169	5043		4823		4617		4508		4387		4125		3827		3663		3453		2609	
			24.0	1.32	23.0	1.36	22.0	1.42	22.0	1.44	21.0	1.46	20.0	1.48	19.2	1.51	18.4	1.53	17.5	1.53	16.4	1.39
4 1/2	1295	6335	5179		4965		4764		4661		4544		4299		4012		3858		3687		3102	
			25.0	1.43	24.0	1.47	23.0	1.53	23.0	1.56	22.0	1.57	21.0	1.60	20.0	1.63	19.3	1.65	18.5	1.66	17.0	1.60
	1330	6507	5318		5111		4913		4817		4704		4475		4197		4055		3900		3452	
			26.0	1.55	25.0	1.59	24.0	1.65	23.0	1.68	23.0	1.70	22.0	1.73	21.0	1.76	20.0	1.77	19.5	1.79	17.7	1.77
5	1365	6678	5458		5256		5063		4969		4864		4641		4380		4244		4100		3751	
			26.0	1.67	25.0	1.72	25.0	1.78	24.0	1.81	24.0	1.83	23.0	1.86	22.0	1.89	21.0	1.90	21.0	1.92	18.8	1.94
	1389	6795	5554		5355		5165		5073		4972		4753		4505		4371		4235		3920	
			27.0	1.76	26.0	1.81	25.0	1.87	25.0	1.90	24.0	1.93	23.0	1.96	22.0	1.99	22.0	2.00	21.0	2.02	19.7	2.05

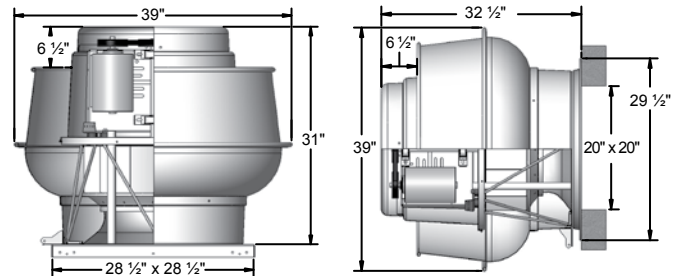
Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include drive losses. For further information on estimating belt drive losses and motor service factors see page 11. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

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## FX18B Belt Drive Fan Curves



## FX18B Belt Drive Fan Dimensional Data



Galv. Steel Base = 14 Gage	Roof/Wall Opening = 20" SQ.	Peak BHP = (RPM/999) <sup>3</sup>
Aluminum Base = 0.080	Damper Size = 19 1/4" SQ.	Max. RPM = 1403 (2 HP)
Discharge Apron = 0.064	Max. Motor Frame Size = 145T	Est. Ship Weight = 145 lbs.*

\* Add 20 lbs. for Heat & Smoke option.

## FX18B Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.000" SP		0.250" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.375" SP		1.500" SP		1.750" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	400	2121	1984	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	556	2948	4.7 0.05	2758	2050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	600	3181	8.9 0.15	2976	2345	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	643	3409	10.0 0.18	3189	2618	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/3	665	3525	11.1 0.23	3299	2755	10.3 0.26	1885	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	685	3631	11.6 0.25	3398	2873	9.8 0.28	2147	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	700	3711	12.0 0.27	3472	2961	11.2 0.31	2279	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	730	3870	12.3 0.29	3770	3309	10.7 0.35	2716	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/2	760	4029	13.2 0.33	3894	3452	11.7 0.33	2890	12.3 0.44	2328	-	-	-	-	-	-	-	-	-	-	-	-	-
	785	4162	13.7 0.42	3988	3559	12.8 0.44	2569	13.4 0.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	804	4262	14.2 0.37	4167	3759	13.9 0.48	2710	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	840	4453	15.1 0.41	4167	3759	14.3 0.52	2968	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4	870	4612	15.9 0.44	4316	3922	14.8 0.52	3179	16.1 0.79	2640	-	-	-	-	-	-	-	-	-	-	-	-	-
	900	4771	16.7 0.50	4464	4084	15.6 0.59	3385	15.1 0.59	2891	-	-	-	-	-	-	-	-	-	-	-	-	-
	924	4899	17.2 0.56	4584	4212	16.1 0.65	3548	15.6 0.66	3279	-	-	-	-	-	-	-	-	-	-	-	-	-
	950	5036	17.6 0.62	4712	4351	16.6 0.78	3716	16.2 0.72	3461	-	-	-	-	-	-	-	-	-	-	-	-	-
1	975	5169	18.3 0.67	4837	4485	17.1 0.76	3876	17.4 0.84	3634	-	-	-	-	-	-	-	-	-	-	-	-	-
	1002	5312	19.2 0.73	4970	4628	18.0 0.83	4047	17.8 0.92	3818	-	-	-	-	-	-	-	-	-	-	-	-	-
	1040	5513	20.0 0.85	5159	4829	18.9 0.96	4285	18.3 0.91	4067	-	-	-	-	-	-	-	-	-	-	-	-	-
	1080	5726	21.0 0.92	5357	5039	19.4 0.98	4479	18.9 1.00	4322	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	1120	5938	22.0 0.95	5556	5249	20.0 1.02	4676	20.0 1.09	4574	-	-	-	-	-	-	-	-	-	-	-	-	-
	1151	6102	22.0 1.07	5710	5411	21.0 1.20	4940	21.0 1.21	4767	-	-	-	-	-	-	-	-	-	-	-	-	-
	1190	6309	23.0 1.19	5903	5614	22.0 1.33	5165	22.0 1.35	4997	-	-	-	-	-	-	-	-	-	-	-	-	-
	1215	6441	24.0 1.29	6027	5744	23.0 1.44	5308	23.0 1.46	5144	-	-	-	-	-	-	-	-	-	-	-	-	-
2	1245	6600	25.0 1.52	6176	5899	24.0 1.58	5479	24.0 1.60	5319	-	-	-	-	-	-	-	-	-	-	-	-	-
	1268	6722	25.0 1.60	6290	6019	25.0 1.72	5610	25.0 1.83	5453	-	-	-	-	-	-	-	-	-	-	-	-	-
			26.0 1.64	6290	6019	25.0 1.79	5610	25.0 1.83	5453	-	-	-	-	-	-	-	-	-	-	-	-	-
			26.0 1.73	6290	6019	25.0 1.89	5610	25.0 1.92	5453	-	-	-	-	-	-	-	-	-	-	-	-	-

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include drive losses. For further information on estimating belt drive losses and motor service factors see page 11. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

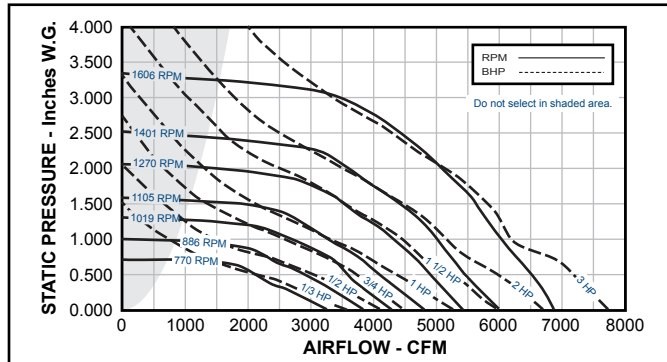
# Dimensional Information & Performance Data

Fumex | Belt Drive

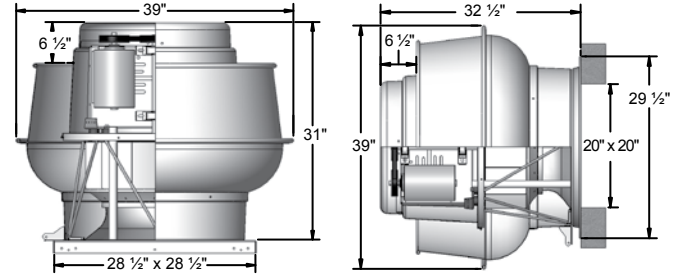


## FX18BH

### FX18BH Belt Drive Fan Curves



### FX18BH Belt Drive Fan Dimensional Data



Galv. Steel Base = 14 Gage	Roof/Wall Opening = 20" SQ.	Peak BHP = (RPM/1106) <sup>3</sup>
Aluminum Base = 0.080	Damper Size = 19 1/4" SQ.	Max. RPM = 1870 (3 HP)
Discharge Apron = 0.064	Max. Motor Frame Size = 145T	Wall Mounted Max. HP = 2
Est. Ship Weight = 142 lbs.*		

\* Add 20 lbs. for Heat & Smoke option.

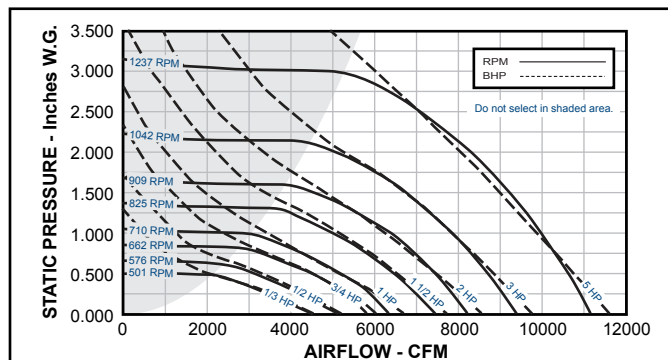
### FX18BH Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/3	770	4082	2308	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7.6	0.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/2	800	4241	2520	-	1622	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7.9	0.37	8.1	0.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	840	4453	2773	-	2108	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			8.4	0.42	8.9	0.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4	886	4697	3028	-	2436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			9.4	0.48	9.4	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	915	4851	3186	-	2628	-	1676	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			10.1	0.53	9.9	0.57	10.0	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	970	5142	3475	-	3017	-	2435	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			11.5	0.62	10.7	0.66	11.5	0.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1019	5402	3712	-	3342	-	2786	-	1779	-	-	-	-	-	-	-	-	-	-	-	-	-
			12.4	0.71	11.3	0.75	12.0	0.79	12.1	0.71	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	1065	5646	3932	-	3598	-	3093	-	2515	-	-	-	-	-	-	-	-	-	-	-	-	-
			13.0	0.81	11.9	0.85	12.4	0.89	13.3	0.88	-	-	-	-	-	-	-	-	-	-	-	-
	1080	5726	4003	-	3681	-	3200	-	2675	-	-	-	-	-	-	-	-	-	-	-	-	-
			13.2	0.84	12.2	0.88	12.5	0.93	13.6	0.93	-	-	-	-	-	-	-	-	-	-	-	-
2	1105	5858	4121	-	3818	-	3378	-	2884	-	1361	-	-	-	-	-	-	-	-	-	-	-
			13.5	0.90	12.6	0.93	12.7	0.98	13.7	1.00	13.4	0.73	-	-	-	-	-	-	-	-	-	-
	1125	5964	4216	-	3926	-	3519	-	3019	-	2151	-	-	-	-	-	-	-	-	-	-	-
			13.9	0.94	12.9	0.98	12.8	1.03	13.9	1.06	14.1	0.98	-	-	-	-	-	-	-	-	-	-
	1150	6097	4333	-	4061	-	3693	-	3186	-	2575	-	-	-	-	-	-	-	-	-	-	-
			14.2	1.00	13.4	1.04	13.0	1.09	14.1	1.13	14.8	1.10	-	-	-	-	-	-	-	-	-	-
	1175	6229	4450	-	4193	-	3850	-	3352	-	2844	-	-	-	-	-	-	-	-	-	-	-
			14.7	1.07	14.0	1.11	13.3	1.15	14.3	1.20	15.5	1.19	-	-	-	-	-	-	-	-	-	-
3	1200	6362	4570	-	4315	-	3990	-	3525	-	3088	-	1920	-	-	-	-	-	-	-	-	-
			15.3	1.13	14.5	1.17	13.6	1.22	14.6	1.28	15.7	1.29	15.5	1.11	-	-	-	-	-	-	-	-
	1225	6494	4697	-	4436	-	4129	-	3703	-	3258	-	2544	-	-	-	-	-	-	-	-	-
			16.1	1.18	15.2	1.24	14.3	1.29	14.9	1.34	16.0	1.37	16.4	1.3	-	-	-	-	-	-	-	-
	1270	6733	4925	-	4652	-	4376	-	4019	-	3559	-	3081	-	-	-	-	-	-	-	-	-
			17.0	1.29	16.2	1.38	15.3	1.42	15.3	1.47	16.5	1.52	17.7	1.51	-	-	-	-	-	-	-	-
	1280	6786	4975	-	4700	-	4430	-	4089	-	3625	-	3188	-	1895	-	-	-	-	-	-	-
			17.1	1.32	16.3	1.41	15.5	1.45	15.4	1.50	16.6	1.56	17.9	1.55	17.3	1.28	-	-	-	-	-	-
4	1335	7077	5251	-	4961	-	4728	-	4424	-	4008	-	3599	-	3051	-	-	-	-	-	-	-
			18.4	1.46	17.2	1.58	16.6	1.63	16.1	1.68	17.1	1.74	18.4	1.77	19.2	1.73	-	-	-	-	-	-
	1375	7289	5449	-	5150	-	4931	-	4646	-	4290	-	3865	-	3478	-	2571	-	-	-	-	-
			19.4	1.57	18.2	1.72	17.6	1.77	17.1	1.82	17.5	1.88	18.8	1.93	20.0	1.93	19.9	1.78	-	-	-	-
	1401	7427	5578	-	5272	-	5057	-	4789	-	4471	-	4036	-	3670	-	3073	-	-	-	-	-
			20.0	1.64	18.8	1.82	18.2	1.86	17.8	1.91	17.9	1.97	19.1	2.04	20.0	2.05	21.0	1.98	-	-	-	-
	1440	7634	5770	-	5454	-	5245	-	5002	-	4720	-	4315	-	3933	-	3494	-	2481	-	-	-
			21.0	1.76	19.8	1.96	19.3	2.01	18.8	2.06	18.7	2.12	19.6	2.19	21.0	2.22	22.0	2.20	22.0	1.98	-	-
5	1480	7846	5958	-	5650	-	5436	-	5218	-	4944	-	4598	-	4198	-	3852	-	3274	-	-	-
			22.0	1.89	21.0	2.11	20.0	2.17	20.0	2.22	19.7	2.28	20.0	2.35	21.0	2.41	23.0	2.41	23.0	2.34	-	-
	1520	8058	6139	-	5853	-	5627	-	5428	-	5165	-	4876	-	4474	-	4122	-	3705	-	-	-
			24.0	2.03	22.0	2.24	22.0	2.34	21.0	2.39	21.0	2.45	21.0	2.51	22.0	2.59	23.0	2.61	25.0	2.59	-	-
	1560	8270	6321	-	6055	-	5816	-	5623	-	5385	-	5124	-	4759	-	4389	-	4060	-	1714	-
			25.0	2.19	24.0	2.39	23.0	2.52	23.0	2.57	23.0	2.63	22.0	2.69	23.0	2.77	24.0	2.82	25.0	2.83	24.0	1.93
	1585	8403	6434	-	6181	-	5934	-	5744	-	5520	-	5264	-	4935	-	4553	-	4230	-	2907	-
			26.0	2.28	25.0	2.48	24.0	2.64	24.0	2.69	23.0	2.75	23.0	2.81	23.0	2.88	24.0	2.96	26.0	2.96	26.0	2.71
6	1606	8514	6528	-	6286	-	6032	-	5845	-	5634	-	5381	-	5081	-	4700	-	4371	-	3378	-
			27.0	2.37	25.0	2.56	24.0	2.74	24.0	2.79	24.0	2.85	24.0	2.91	24.0	2.98	25.0	3.06	26.0	3.08	27.0	2.95

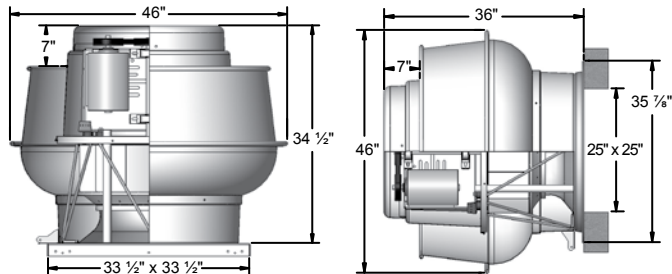
Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include drive losses. For further information on estimating belt drive losses and motor service factors see page 11. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

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### › FX24B Belt Drive Fan Curves



### › FX24B Belt Drive Fan Dimensional Data



Galv. Steel Base = 14 Gage	Roof/Wall Opening = 25" SQ.	Peak BHP = (RPM/716) <sup>3</sup>
Aluminum Base = 0.080	Damper Size = 24 3/4" SQ.	Max. RPM = 1360 (5 HP)
Discharge Apron = 0.064	Max. Motor Frame Size = 184T	Wall Mounted Max. HP = 2
Est. Ship Weight = 190 lbs.*		

### › FX24B Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	375	2436	1986 5.9 0.14		-		-		-		-		-		-		-		-		-	
	420	2728	2701		-		-		-		-		-		-		-		-		-	
	461	2995	7.3 0.20		-		-		-		-		-		-		-		-		-	
			3245 8.7 0.27		-		-		-		-		-		-		-		-			
1/3	480	3118	3471 9.5 0.30		-		-		-		-		-		-		-		-		-	
	501	3255	3717		-		-		-		-		-		-		-		-		-	
			10.4 0.34		-		-		-		-		-		-		-		-			
1/2	540	3508	4163 11.9 0.42		2992 10.7 0.42		-		-		-		-		-		-		-		-	
	576	3742	4543		3557		-		-		-		-		-		-		-		-	
			12.9 0.51		11.7 0.52		-		-		-		-		-		-		-			
3/4	610	3963	4896 14.0 0.60		4036 12.9 0.62		-		-		-		-		-		-		-		-	
	640	4157	5203 14.9 0.69		4433 14.0 0.72		3236 12.8 0.67		-		-		-		-		-		-		-	
			5421		4709		3676		-		-		-		-		-		-			
	662	4300	15.5 0.76		14.7 0.79		13.6 0.77		-		-		-		-		-		-		-	
1	690	4482	5697 16.2 0.85		5040 15.4 0.89		4126 14.3 0.89		-		-		-		-		-		-		-	
	718	4664	5972		5367		4542		3116		-		-		-		-		-		-	
			16.9 0.95		16.2 1.00		15.1 1.01		13.9 0.88		-		-		-		-		-			
1 1/2	755	4905	6332 18.2 1.10		5791 17.4 1.16		5049 16.4 1.18		4070 15.3 1.12		-		-		-		-		-		-	
	790	5132	6670		6167		5510		4663		-		-		-		-		-		-	
			19.7 1.25		19.0 1.32		18.1 1.35		16.9 1.33		-		-		-		-		-			
	825	5359	7007 21.0 1.42		6534 19.9 1.49		5937 19.0 1.53		5185 18.0 1.53		4151 16.8 1.43		-		-		-		-		-	
2	850	5522	7246 21.0 1.55		6793 20.0 1.62		6231 19.5 1.67		5538 18.5 1.68		4660 17.5 1.61		-		-		-		-		-	
	880	5717	7532		7103		6580		5939		5165		3845		-		-		-		-	
			22.0 1.71		21.0 1.79		20.0 1.84		19.3 1.87		18.3 1.83		17.3 1.63		-		-		-			
	909	5905	7808 23.0 1.88		7397 23.0 1.97		6913 22.0 2.03		6321 21.0 2.06		5599 19.6 2.04		4660 18.4 1.92		-		-		-		-	
3	950	6171	8197 25.0 2.14		7803 25.0 2.23		7367 24.0 2.30		6824 23.0 2.34		6187 22.0 2.35		5435 21.0 2.29		4130 19.3 2.05		-		-		-	
	985	6399	8527		8148		7736		7236		6655		5973		5102		-		-		-	
			28.0 2.37		27.0 2.47		26.0 2.55		25.0 2.60		24.0 2.62		23.0 2.59		22.0 2.45		-		-			
	1015	6593	8809		8441		8050		7585		7050		6417		5681		4389		-		-	
			29.0 2.59		28.0 2.69		27.0 2.78		26.0 2.83		25.0 2.86		24.0 2.86		23.0 2.77		22.0 2.49		-		-	
	1042	6769	9062		8705		8330		7896		7390		6795		6123		5217		-		-	
29.0 2.80			29.0 2.90		28.0 2.99		27.0 3.05		26.0 3.09		25.0 3.10		24.0 3.04		23.0 2.87		-		-			
5	1100	7146	9605 30.0 3.28		9267 30.0 3.39		8927 29.0 3.50		8539 28.0 3.57		8076 27.0 3.62		7568 26.0 3.65		6985 25.0 3.64		6327 24.0 3.56		5393 23.0 3.35		-	
	1150	7470	10071		9749		9424		9065		8656		8197		7669		7085		6427		5428	
			32.0 3.74		31.0 3.85		30.0 3.96		29.0 4.05		28.0 4.11		27.0 4.16		26.0 4.17		25.0 4.13		25.0 4.02		24.0 3.77	
	1200	7795	10536		10228		9916		9586		9227		8788		8330		7804		7221		6552	
			34.0 4.23		33.0 4.35		33.0 4.47		32.0 4.57		31.0 4.65		30.0 4.70		29.0 4.73		28.0 4.73		27.0 4.67		26.0 4.53	
1237	8036	10879 36.0 4.63		10581 35.0 4.75		10279 35.0 4.87		9968 34.0 4.99		9623 33.0 5.07		9219 32.0 5.13		8793 31.0 5.18		8300 30.0 5.18		7770 29.0 5.16		7190 28.0 5.08		

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include drive losses. For further information on estimating belt drive losses and motor service factors see page 11. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

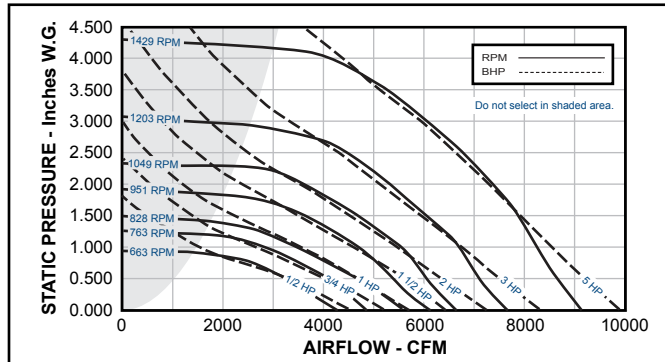
# Dimensional Information & Performance Data

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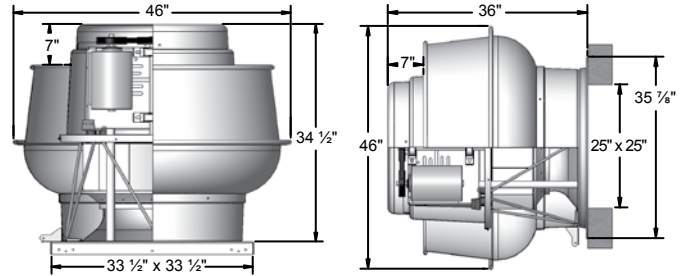


## FX24BH

### FX24BH Belt Drive Fan Curves



### FX24BH Belt Drive Fan Dimensional Data



Galv. Steel Base = 14 Gage	Roof Opening = 25" SQ.	Peak BHP = (RPM/827) <sup>3</sup>
Aluminum Base = 0.080	Damper Size = 24 1/4" SQ.	Max. RPM = 1620 (5 HP)
Discharge Apron = 0.064	Max. Motor Frame Size = 184T	Wall Mounted Max. HP = 2
Est. Ship Weight = 187 lbs.*		

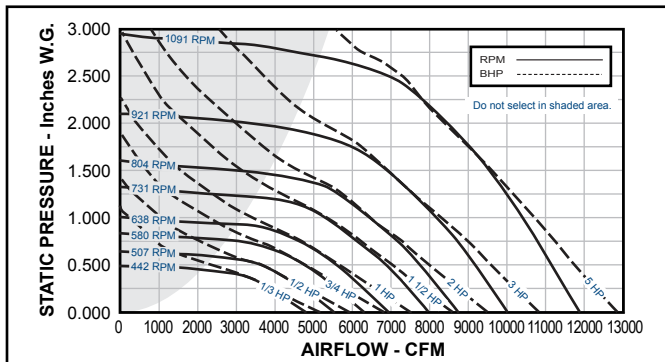
### FX24BH Belt Drive Fan Performance Data

\* Add 40 lbs. for Heat & Smoke option.

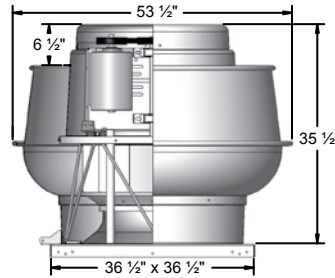
HP	RPM	Tip Speed FPM	0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/2	600	3897	2641	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	663	4306	8.9 0.38	3231	10.0 0.51	10.3 0.51	1877	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4	707	4592	10.8 0.61	3633	11.0 0.63	11.1 0.65	2264	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	725	4709	11.1 0.65	3774	11.3 0.67	11.4 0.64	2264	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	763	4956	11.9 0.75	4069	12.0 0.78	12.3 0.78	2824	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	800	5196	12.4 0.86	4351	12.5 0.89	12.6 0.91	2352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	828	5378	12.7 0.94	4549	12.8 0.98	12.9 1.00	2822	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	855	5553	13.1 1.03	4736	13.1 1.07	13.3 1.10	3180	1929	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	886	5755	13.7 1.13	4950	13.7 1.19	13.7 1.22	3546	2740	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	915	5943	14.7 1.23	5148	14.6 1.30	14.6 1.34	3857	3223	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	925	6008	15.2 1.27	5216	15.0 1.34	15.0 1.38	3953	3345	2152	-	-	-	-	-	-	-	-	-	-	-	-	-
	951	6177	16.0 1.37	5393	15.7 1.45	15.7 1.49	4198	3655	2859	-	-	-	-	-	-	-	-	-	-	-	-	-
	990	6430	16.9 1.53	5657	16.5 1.62	16.5 1.67	4560	4107	3503	2353	-	-	-	-	-	-	-	-	-	-	-	-
2	1019	6619	17.4 1.66	5856	16.9 1.75	16.9 1.81	4831	4384	3851	3096	-	-	-	-	-	-	-	-	-	-	-	-
	1049	6814	18.0 1.80	6063	17.4 1.89	17.4 1.96	5115	4667	4203	3597	2447	-	-	-	-	-	-	-	-	-	-	-
	1080	7015	18.8 1.95	6276	18.0 2.05	18.0 2.13	5405	4954	4539	4005	3270	-	-	-	-	-	-	-	-	-	-	-
	1105	7177	19.5 2.08	6447	18.6 2.18	18.6 2.32	5635	5184	4777	4301	2689	2546	-	-	-	-	-	-	-	-	-	-
3	1125	7307	20.0 2.19	6583	19.3 2.29	19.1 2.39	5801	5375	4965	4535	4002	3184	-	-	-	-	-	-	-	-	-	-
	1175	7632	22.0 2.48	6923	21.0 2.58	21.0 2.69	6191	5846	5429	5047	4597	4058	-	-	-	-	-	-	-	-	-	-
	1203	7814	23.0 2.65	7122	22.0 2.76	21.0 2.86	6407	6105	5690	5311	4924	4425	-	-	-	-	-	-	-	-	-	-
	1210	7859	23.0 2.69	7160	22.0 2.80	21.0 2.91	6461	6169	5757	5377	5004	4508	2767	-	-	-	-	-	-	-	-	-
5	1245	8087	24.0 2.92	7395	23.0 3.03	22.0 3.14	6728	6453	6088	5701	5341	4922	3740	-	-	-	-	-	-	-	-	-
	1275	8281	24.0 3.12	7597	23.0 3.24	23.0 3.35	6954	6688	6368	5977	5624	5270	4244	-	-	-	-	-	-	-	-	-
	1325	8606	25.0 3.49	7931	24.0 3.61	24.0 3.73	7302	7074	6815	6453	6088	5750	4933	-	-	-	-	-	-	-	-	-
	1380	8963	27.0 3.92	8298	26.0 4.04	25.0 4.17	7683	7493	7246	6965	6604	6264	5580	-	-	-	-	-	-	-	-	-
	1429	9282	29.0 4.33	8623	28.0 4.46	27.0 4.59	8198	8019	7843	7624	7384	7065	6086	-	-	-	-	-	-	-	-	-
														-	-	-	-	-	-	-	-	-

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include drive losses. For further information on estimating belt drive losses and motor service factors see page 11. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

## FX27B Belt Drive Fan Curves



## FX27B Belt Drive Fan Dimensional Data



Galv. Steel Base = 14 Gage	Roof Opening = 28" SQ.	Peak BHP = (RPM/539) <sup>3</sup>
Aluminum Base = 0.080	Damper Size = 27 1/4" SQ.	Max. RPM = 1188 (5 HP)
Discharge Apron = 0.080	Max. Motor Frame Size = 184T	Est. Ship Weight = 219 lbs.*

\* Add 55 lbs. for Heat & Smoke option.

## FX27B Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		2.000" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/3	442	3211	4361		3843		3112		-		-		-		-		-		-	
			8.3	0.30	7.7	0.33	7.1	0.33	-		-		-		-		-		-	
1/2	475	3451	4780		4293		3695		2634		-		-		-		-		-	
			9.7	0.37	9.0	0.40	8.6	0.41	7.6	0.38	-		-		-		-		-	
	507	3683	5120		4710		4213		3530		-		-		-		-		-	
			10.7	0.44	10.1	0.48	9.8	0.50	9.2	0.49	-		-		-		-		-	
3/4	535	3887	5444		5065		4617		4030		-		-		-		-		-	
			11.7	0.51	11.1	0.55	10.7	0.58	10.3	0.59	-		-		-		-		-	
	560	4068	4361		4361		4361		4361		-		-		-		-		-	
			12.7	0.59	12.2	0.63	11.7	0.66	11.5	0.67	-		-		-		-		-	
	580	4214	5960		5628		5234		4785		3159		-		-		-		-	
			13.5	0.65	13.1	0.69	12.7	0.73	12.5	0.75	10.9	0.69	-		-		-		-	
1	600	4359	6188		5870		5498		5076		3889		-		-		-		-	
			14.2	0.71	13.8	0.76	13.4	0.80	13.2	0.82	12.0	0.80	-		-		-		-	
	620	4504	6415		6107		5756		5363		4304		-		-		-		-	
			14.9	0.78	14.6	0.83	14.2	0.87	13.8	0.90	12.9	0.90	-		-		-		-	
	638	4635	6631		6330		5990		5625		4635		-		-		-		-	
			15.4	0.85	15.0	0.90	14.6	0.94	14.3	0.98	13.5	0.99	-		-		-		-	
1 1/2	660	4795	6868		6577		6264		5913		5018		-		-		-		-	
			15.9	0.94	15.7	0.99	15.2	1.04	14.8	1.07	14.2	1.10	-		-		-		-	
	685	4976	7150		6869		6578		6248		5461		4209		-		-		-	
			16.7	1.04	16.4	1.10	16.0	1.15	15.6	1.19	15.0	1.24	13.8	1.17	-		-		-	
	705	5122	7374		7101		6827		6506		5782		4753		-		-		-	
			17.4	1.13	17.1	1.19	16.7	1.24	16.3	1.29	15.7	1.34	14.7	1.31	-		-		-	
	731	5311	7666		7403		7144		6839		6161		5247		-		-		-	
			18.4	1.26	18.1	1.32	17.7	1.38	17.4	1.42	16.7	1.49	15.8	1.48	-		-		-	
2	750	5449	7879		7622		7369		7080		6434		5583		4127		-		-	
			19.0	1.35	18.7	1.42	18.4	1.48	18.0	1.53	17.4	1.60	16.6	1.61	15.0	1.49	-		-	
	770	5594	8103		7853		7605		7332		6719		5932		4856		-		-	
			19.6	1.46	19.3	1.53	18.9	1.59	18.5	1.64	17.9	1.72	17.3	1.76	16.0	1.67	-		-	
	785	5703	8270		8025		7782		7521		6925		6200		5250		-		-	
			20.0	1.54	19.8	1.62	19.4	1.68	18.9	1.73	18.3	1.82	17.8	1.86	16.6	1.81	-		-	
	804	5841	8482		8243		8004		7758		7183		6528		5628		-		-	
			21.0	1.66	20.0	1.73	19.9	1.80	19.5	1.85	18.8	1.94	18.4	2.00	17.3	1.97	-		-	
3	830	6030	8772		8540		8308		8080		7534		6910		6092		4830		-	
			22.0	1.82	21.0	1.89	21.0	1.97	22.0	2.00	19.6	2.12	18.9	2.18	18.1	2.18	16.9	2.05	-	
	865	6284	9161		8938		8716		8497		7988		7415		6706		5853		-	
			23.0	2.05	23.0	2.13	22.0	2.21	22.0	2.27	21.0	2.38	20.0	2.46	19.7	2.49	18.6	2.43	-	
	895	6502	9493		9278		9063		8851		8372		7840		7239		6421		5162	
			25.0	2.26	24.0	2.35	24.0	2.43	23.0	2.50	22.0	2.61	22.0	2.70	21.0	2.75	20.0	2.73	18.4	2.56
	921	6691	9782		9573		9364		9156		8702		8195		7624		6881		6055	
			26.0	2.46	26.0	2.55	25.0	2.63	25.0	2.71	24.0	2.82	23.0	2.93	23.0	2.99	22.0	2.99	20.0	2.90
5	960	6974	10213		10013		9812		9612		9193		8720		8189		7568		6816	
			28.0	2.78	27.0	2.87	27.0	2.96	26.0	3.04	25.0	3.17	25.0	3.28	24.0	3.36	24.0	3.40	22.0	3.36
	1000	7265	10655		10463		10270		10078		9691		9239		8757		8221		7523	
			30.0	3.14	29.0	3.23	29.0	3.32	28.0	3.41	27.0	3.55	26.0	3.67	26.0	3.77	25.0	3.83	24.0	3.83
	1045	7592	11151		10967		10783		10599		10236		9814		9369		8875		8318	
			31.0	3.57	31.0	3.66	31.0	3.76	30.0	3.85	29.0	4.01	28.0	4.14	28.0	4.26	27.0	4.34	26.0	4.39
	1091	7926	11658		11482		11305		11129		10780		10395		9981		9531		9039	
			34.0	4.05	33.0	4.15	33.0	4.25	33.0	4.35	31.0	4.53	31.0	4.66	30.0	4.80	29.0	4.91	29.0	4.96

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include drive losses. For further information on estimating belt drive losses and motor service factors see page 11. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

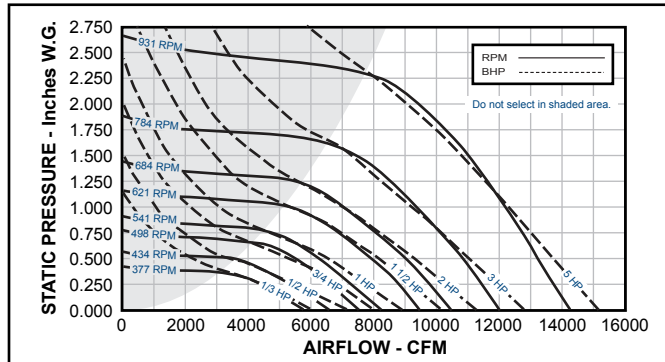
# Dimensional Information & Performance Data

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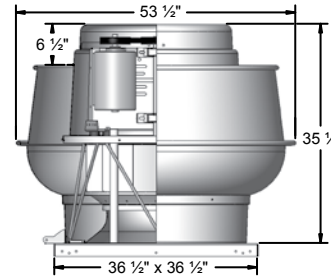


## FX30B

### FX30B Belt Drive Fan Curves



### FX30B Belt Drive Fan Dimensional Data



Galv. Steel Base = 14 Gage	Roof Opening = 28" SQ.	Peak BHP = (RPM/539) <sup>3</sup>
Aluminum Base = 0.080	Damper Size = 27 1/4" SQ.	Max. RPM = 1188 (5 HP)
Discharge Apron = 0.080	Max. Motor Frame Size = 184T	Est. Ship Weight = 219 lbs.*

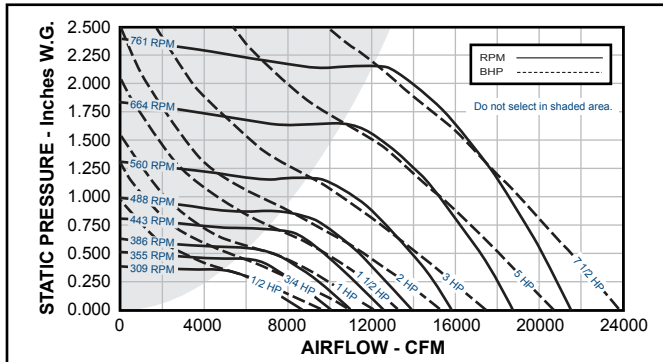
\* Add 65 lbs. for Heat & Smoke option.

### FX30B Belt Drive Fan Performance Data

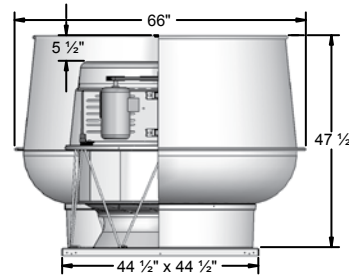
HP	RPM	Tip Speed FPM	0.000" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP			
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP		
1/3	347	2782	5314		3779		-		-		-		-		-		-		-		-			
			7.6	0.22	7.2	0.27	-		-		-		-		-		-		-		-			
	377	3023	5773		4431		-		-		-		-		-		-		-		-			
8.9			0.28	8.5	0.34	-		-		-		-		-		-		-		-				
1/2	400	3207	6125		4899		-		-		-		-		-		-		-		-			
			10.1	0.33	9.5	0.40	-		-		-		-		-		-		-		-			
	420	3367	6431		5283		-		-		-		-		-		-		-		-			
			10.9	0.38	10.2	0.46	-		-		-		-		-		-		-		-			
	434	3480	6646		5548		3742		-		-		-		-		-		-		-		-	
11.6			0.42	10.7	0.50	10.0	0.51	-		-		-		-		-		-		-		-		
3/4	455	3648	6968		5937		4445		-		-		-		-		-		-		-			
			12.5	0.49	11.6	0.57	10.8	0.61	-		-		-		-		-		-		-			
	480	3848	7350		6377		5078		-		-		-		-		-		-		-			
			13.7	0.57	12.8	0.66	11.9	0.71	-		-		-		-		-		-		-			
	498	3993	7626		6690		5505		-		-		-		-		-		-		-		-	
14.6			0.64	13.6	0.74	12.7	0.79	-		-		-		-		-		-		-		-		
1	520	4169	7963		7069		5984		-		-		-		-		-		-		-			
			15.6	0.73	14.6	0.83	13.8	0.90	-		-		-		-		-		-		-			
	541	4338	8285		7428		6433		4939		-		-		-		-		-		-			
16.4			0.82	15.4	0.93	14.6	1.00	13.3	1.01	-		-		-		-		-		-				
1 1/2	560	4490	8576		7748		6818		5514		-		-		-		-		-		-			
			17.1	0.91	16.1	1.02	15.2	1.10	14.1	1.13	-		-		-		-		-		-			
	595	4770	9112		8333		7491		6397		-		-		-		-		-		-			
			18.5	1.09	17.5	1.21	16.5	1.30	15.4	1.35	-		-		-		-		-		-			
621	4979	9510		8764		7983		6985		5581		-		-		-		-		-		-		
		19.7	1.24	18.8	1.36	17.8	1.46	16.6	1.53	15.3	1.52	-		-		-		-		-		-		
2	640	5131	9801		9077		8335		7397		6193		-		-		-		-		-			
			21.0	1.35	19.6	1.48	18.6	1.59	17.5	1.67	16.2	1.68	-		-		-		-		-			
	665	5332	10184		9488		8776		7930		6835		-		-		-		-		-			
			22.0	1.52	21.0	1.79	19.7	1.77	18.7	1.86	17.4	1.89	-		-		-		-		-			
684	5484	10474		9798		9109		8314		7311		5817		-		-		-		-		-		
		22.0	1.65	21.0	1.79	20.0	1.92	19.4	2.01	18.1	2.06	16.8	1.99	-		-		-		-		-		
3	710	5693	10873		10221		9560		8817		7911		6748		-		-		-		-			
			23.0	1.85	22.0	1.99	21.0	2.13	20.0	2.23	19.0	2.29	17.7	2.29	-		-		-		-			
	730	5853	11179		10545		9905		9199		8347		7299		-		-		-		-			
			24.0	2.01	23.0	2.15	22.0	2.30	21.0	2.40	19.9	2.48	18.6	2.50	-		-		-		-			
	750	6013	11485		10869		10248		9578		8777		7806		6405		-		-		-			
			25.0	2.18	24.0	2.33	23.0	2.49	22.0	2.59	21.0	2.68	19.4	2.71	18.2	2.63	-		-		-			
	770	6174	11792		11191		10588		9953		9202		8305		7144		-		-		-			
26.0			2.36	25.0	2.51	24.0	2.68	23.0	2.78	22.0	2.89	21.0	2.93	19.3	2.91	-		-		-				
784	6286	12006		11416		10824		10211		9487		8630		7591		-		-		-		-		
		27.0	2.49	26.0	2.64	25.0	2.81	24.0	2.93	23.0	3.04	21.0	3.09	20.0	3.09	-		-		-				
		12328		11753		11177		10582		9895		9090		8132		-		-		-		-		
5	805	6454	28.0		2.69		27.0	2.85	26.0	3.03	25.0	3.15	24.0	3.26	23.0	3.33	21.0	3.35	-		-			
			12863		12313		11761		11196		10566		9844		9011		7982		-		-		-	
	840	6735	30.0		3.06		29.0	3.22	28.0	3.41	27.0	3.55	26.0	3.66	25.0	3.76	23.0	3.81	22.0	3.79	-			
			13476		12951		12424		11889		11322		10674		9918		9049		7955		-		-	
	880	7055	31.0		3.52		30.0	3.69	29.0	3.88	28.0	4.04	27.0	4.16	26.0	4.29	25.0	4.35	23.0	4.38	22.0	4.32	-	
			14012		13507		13000		12491		11963		11351		10673		9923		9018		7663		-	
	915	7336	33.0		3.96		32.0	4.13	31.0	4.33	30.0	4.52	29.0	4.64	28.0	4.77	27.0	4.87	25.0	4.92	24.0	4.92	23.0	4.74
14257			13760		13263		12764		12245		11658		11015		10285		9427		8352		-			
931	7464	34.0		4.17		34.0	4.35	32.0	4.54	31.0	4.75	30.0	4.87	29.0	5.00	28.0	5.11	27.0	5.17	25.0	5.18	24.0	5.11	

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include drive losses. For further information on estimating belt drive losses and motor service factors see page 11. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

## FX36B Belt Drive Fan Curves



## FX36B Belt Drive Fan Dimensional Data



Galv. Steel Base = 12 Gage	Roof Opening = 36" SQ.	Peak BHP = (RPM/384) <sup>3</sup>
Aluminum Base = 0.102	Damper Size = 35 1/2" SQ.	Max. RPM = 810 (7 1/2 HP)
Discharge Apron = 0.080	Max. Motor Frame Size = 213T	Est. Ship Weight = 470 lbs.*

\* Add 110 lbs. for Heat & Smoke option.

## FX36B Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.000" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.375" SP		1.500" SP		1.750" SP		2.000" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/2	269	2619	7603		4897		-		-		-		-		-		-		-		-	
	309	3008	8734	0.25	6761	0.34	-		-		-		-		-		-		-		-	
3/4	335	3261	9469	0.37	7715	0.51	-		-		-		-		-		-		-		-	
	355	3456	10034	0.48	8409	0.63	-		-		-		-		-		-		-		-	
1	370	3602	10458	0.57	8912	0.74	6306	0.82	-		-		-		-		-		-		-	
	386	3758	10911	0.64	9441	0.88	82	1.01	-		-		-		-		-		-		-	
1 1/2	405	3943	11448	0.73	10054	0.92	8198	1.04	-		-		-		-		-		-		-	
	420	4089	11872	0.84	10531	1.17	8875	1.30	-		-		-		-		-		-		-	
2	443	4313	12522	0.94	11255	1.25	9785	1.51	-		-		-		-		-		-		-	
	465	4527	13144	1.10	11941	1.32	10593	1.71	8429	1.76	-		-		-		-		-		-	
3	488	4751	13794	1.27	12653	1.51	11417	2.05	9673	2.29	-		-		-		-		-		-	
	500	4868	14133	1.47	13022	1.72	11823	2.07	10221	2.20	-		-		-		-		-		-	
5	515	5014	14557	1.58	13483	1.84	12327	2.23	10896	2.40	8139	2.29	-		-		-		-		-	
	530	5160	14981	1.73	13942	2.00	12827	2.23	11516	2.40	9322	2.29	-		-		-		-		-	
7 1/2	550	5355	15547	1.88	14552	2.17	13488	2.41	12259	2.60	10497	2.59	-		-		-		-		-	
	560	5452	15829	2.11	14855	2.42	13810	2.65	12627	2.87	11008	2.94	-		-		-		-		-	
7	580	5647	16395	2.22	15460	2.54	14449	2.78	13354	3.00	11922	3.10	9624	3.10	-		-		-		-	
	600	5841	16960	2.47	16063	2.82	15084	3.05	14062	3.29	12820	3.44	10863	3.35	-		-		-		-	
7	620	6036	17525	2.73	16663	3.10	15713	3.34	14738	3.60	13596	3.80	12025	3.77	10842	3.77	-		-		-	
	640	6231	18091	3.02	17262	3.41	16339	3.64	15407	3.92	14337	4.14	12945	4.22	12022	4.14	10872	4.14	-		-	
7	664	6464	18769	3.32	17978	3.74	17086	3.96	16203	4.26	15213	4.50	14029	4.63	13246	4.61	12296	4.53	-		-	
	680	6620	19221	3.71	18453	4.17	17581	4.38	16726	4.69	15791	4.96	14708	5.15	13975	5.17	13211	5.14	-		-	
7	700	6815	19787	3.98	19047	4.47	18197	4.67	17367	5.00	16481	5.28	15455	5.51	14874	5.54	14131	5.56	12265	5.56	-	
	720	7010	20352	4.34	19639	4.86	18813	5.05	18003	5.39	17155	5.69	16193	5.94	15681	6.03	15037	6.05	13445	5.96	-	
7	745	7253	21059	4.72	20372	5.28	19579	5.48	18794	5.81	17990	6.13	17104	6.39	16610	6.52	16116	6.57	14756	6.56	12913	
	761	7409	21511	5.23	20839	5.81	20067	6.04	19297	6.36	18520	6.70	17681	6.99	17198	7.12	16714	7.25	15488	7.31	13862	
7			32.0	5.58	32.0	6.17	31.0	6.42	29.0	6.73	28.0	7.08	27.0	7.40	26.0	7.53	26.0	7.66	25.0	7.77	24.0	7.71

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include drive losses. For further information on estimating belt drive losses and motor service factors see page 11. The sound ratings shown are for loudness values in fan sones at 50' (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

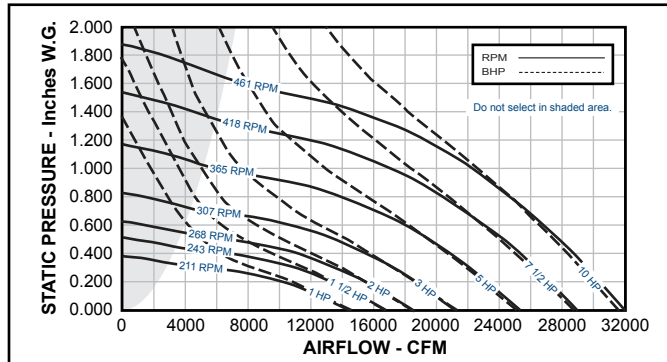
# Dimensional Information & Performance Data

Fumex | Belt Drive

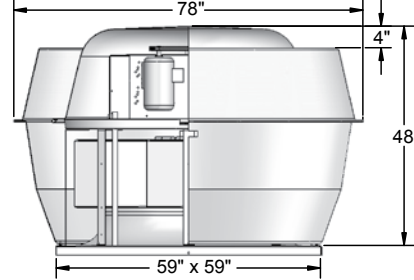


## FMX50B

### FMX50B Belt Drive Fan Curves



### FMX50B Belt Drive Fan Dimensional Data



Galv. Steel Base = 12 Gage	Roof/Wall Opening = 50" SQ.	Peak BHP = (RPM/218) <sup>3</sup>
Aluminum Base = 0.125	Damper Size = 49 1/2" SQ.	Max. RPM = 480 (10 HP)
Discharge Apron = 0.125	Max. Motor Frame Size = 215T	Est. Ship Weight = 928 lbs.

### FMX50B Belt Drive Fan Performance Data

HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1	190	2487	13139	10401	5367	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	200	2618	13831	11276	7192	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	211	2762	14592	12203	8861	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	220	2880	15214	12950	9918	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	230	3011	15906	13770	11062	5791	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	243	3181	16805	14822	12317	8501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	250	3272	17289	15382	12979	9596	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	260	3403	17980	16177	13911	11040	5088	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	268	3508	18534	16801	14645	11980	7391	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	280	3665	19364	17705	15706	13357	9722	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	290	3796	20055	18454	16553	14357	11285	5511	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	300	3927	20747	19198	17392	15313	12722	8370	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	307	4019	21231	19718	17973	15973	13546	9768	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	320	4189	22130	20678	19043	17182	15047	11962	6637	-	-	-	-	-	-	-	-	-	-	-	-	-
	335	4385	23167	21781	20264	18552	16591	14175	10449	-	-	-	-	-	-	-	-	-	-	-	-	-
7 1/2	350	4581	24205	22878	21470	19836	18021	15931	13019	-	-	-	-	-	-	-	-	-	-	-	-	-
	365	4778	25242	23969	22665	21098	19424	17624	15293	6502	-	-	-	-	-	-	-	-	-	-	-	-
	380	4974	26279	25057	23835	22344	20802	19073	17057	10734	-	-	-	-	-	-	-	-	-	-	-	-
10	395	5171	27317	26141	24965	23575	22128	20496	18779	13594	-	-	-	-	-	-	-	-	-	-	-	-
	410	5367	28354	27221	26088	24795	23400	21894	20292	15941	7763	-	-	-	-	-	-	-	-	-	-	-
	418	5472	28907	27796	26685	25440	24072	22631	21059	17167	10010	-	-	-	-	-	-	-	-	-	-	-
10	425	5563	29391	28298	27206	26003	24657	23271	21725	18079	12030	-	-	-	-	-	-	-	-	-	-	-
	435	5694	30083	29015	27947	26802	25487	24173	22668	19255	13976	-	-	-	-	-	-	-	-	-	-	-
	445	5825	30774	29731	28687	27598	26312	25027	23601	20414	15733	7438	-	-	-	-	-	-	-	-	-	-
10	455	5956	31466	30445	29424	28389	27132	25875	24525	21558	17298	10112	-	-	-	-	-	-	-	-	-	-
	461	6034	31881	30873	29866	28859	27622	26381	25076	22225	18224	11874	-	-	-	-	-	-	-	-	-	-
			20.0	10.32	20.0	10.31	19.8	10.31	19.4	10.31	18.9	10.22	18.4	10.14	17.9	10.03	16.8	9.75	15.4	9.02	15.3	6.91

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include drive losses. For further information on estimating belt drive losses and motor service factors see page 11. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

PENNBARRY 2019

### › Model

FX = Centrifugal Fan  
WFX = Wall Mounted Centrifugal Fan  
FMX = High Capacity Centrifugal Fan

### › Unit Size

08	11	13	16	24	30	50
10	12	14	18	27	36	

### › Drive Type

D = Direct Drive  
B = Belt Drive

### › Motor Tap

Q = 1725 RPM  
R = 1550 RPM  
S = 1300 RPM  
V = 1050 RPM  
Q1 = 1650 RPM  
Q2 = 1725 RPM

### › Motor Speed

1 = Single Speed  
2 = 2S2W Single & Three Phase  
3 = 2S1W Three Phase

### › Horse Power

1/50	1/12	1/5	3/4	3
1/30	1/11	1/4	1	5
1/25	1/7	1/3	1 1/2	7 1/2
1/20	1/6	1/2	2	10

### › Enclosure

O = Open Drip Proof  
T = Totally Enclosed  
E = Explosion Proof  
X = Special

### › Voltage

A = 110V	G = 230V	N = 440V
B = 115V	H = 240V	P = 460V
C = 120V	J = 277V	Q = 480V
D = 200V	K = 380V	R = 575V
E = 208V	L = 400V	S = 600V
F = 220V	M = 415V	X = Special

### › Phase

1 = Single  
3 = Three

### › Cycle

5 = 50 Hz  
6 = 60 Hz

### › Efficiency

S = Standard  
H = High Efficiency

### › Paint / Coating

#### Sizes 08 - 36

0 = None  
F = Epoxy Powder Coat\*  
G = Epoxy Powder Coat with UV\*  
H = Hi-Temp Powder Coat\*  
J = Non-stick Powder Coat\*  
K = Phenolic Powder Coat\*  
L = Phenolic Powder Coat with UV\*  
N = Polyester Powder Coat  
X = Special

\* Not available with choice of color.

#### Size 50

0 = None  
B = Epoxy\*  
C = Heresite\*  
D = Heresite with UV\*  
Q = Enamel\*  
X = Special

\* Not available with choice of color.

### › Color

0 = None  
50 = Chrome Green  
53 = Williamsburg Blue  
55 = Pale Green  
56 = Dove Gray  
61 = White  
63 = Oxford Beige  
65 = Dover White  
66 = Desert Tan  
70 = Black  
73 = Smoke Gray  
77 = Brick Red  
79 = Peppercorn  
81 = Pale Brown  
83 = Chocolate Brown  
85 = Timeless Bronze  
94 = Charcoal  
X = Special

### › AMCA Spark Rating

0 = None  
C = Standard  
B = Optional

### › Damper

0 = None  
BDD = Gravity Backdraft Damper  
MD1 = Gravity Backdraft Damper 115V  
MD2 = Gravity Backdraft Damper 230V  
MD4 = Gravity Backdraft Damper 460V  
ED1 = Explosion Proof Motor  
Operated Damper 115V

### › Screen

0 = None  
B = Bird Screen  
S = Insect/Bird Screen

### › Roof Curb

0 = None	K = UCA18	V = UG18
A = UCG8	L = UG12	W = URA12
B = UCG12	M = SA16	Y = URA18
C = UCG18	N = SFG12	1 = URG12
D = UCA8	P = SFG18	10 = SFA8
E = UCA12	Q = SG16	11 = USCG
F = SFA12	R = SRA16	12 = USCA
G = SFA18	S = SRG16	2 = URG18
H = SCG16	T = UA12	4 = UVA18
J = SCA16	U = UA18	5 = UVG18

### › Slope

0 = None  
S = Single  
D = Double

### › Metal Liner

0 = None  
L = Metal Liner

### › Damper Holding Plate

0 = None  
P = Damper Holding Plate

### › Neoprene Gasket

0 = None  
G = Gasket

### › No Wooden Nailer

0 = None  
N = No Wooden Nailer

### › Curb Paint/Coating

B = Air Dried Epoxy  
Q = Enamel

### › Hinged Sub-base

0 = None  
H = Hinged Sub-base

### › Mounting Pedestal

0 = None  
P = Mounting Pedestal

### › Floating Hinge Kit

0 = None  
H = Floating Hinge Kit

### › Aluminum Base

0 = None  
A = Aluminum Base

### › Thermal Overload Protection

0 = None  
P = Thermal Overload Protection

Continued, next page.

## Engineering Specifications

Centrifugal Fans

### › Disconnect Switch

- 0 = None
- 1 = NEMA 1 Disconnect Switch
- 3R = NEMA 3R Disconnect Switch
- 4 = NEMA 4 Disconnect Switch
- 7 = NEMA 7 Disconnect Switch
- 9 = NEMA 9 Disconnect Switch

### › Internal Wiring

- 0 = None
- 1 = NEMA 1 Internal Wiring
- 3R = NEMA 3R Internal Wiring

### › Transformer

- 0 = None
- T = Transformer

### › Speed Controller

- 0 = None
- L = Loose
- M = Mounted

### › Firestat Switch

- 0 = None
- F = Firestat Switch

### › Fatrap

- 0 = None
- F = Fatrap

### › Heat & Smoke Removal

- 0 = None
- HS = Heat & Smoke Removal

### › Wall Mount

- 0 = None
- W = Wall Mount

### › High Pressure Wheel

- 0 = None
- H = High Pressure Wheel

### › High Wind Construction

- 0 = None
- M = Miami Dade Approved

### › Belt Drive Fans

Belt drive centrifugal roof exhaust upblast fan shall be Fumex FX/FMX, manufactured by PennBarry, Richardson, TX 75081. The housing shall be weatherproof, utilize heavy-gauge spun aluminum construction with a large rolled bead for strength, with galvanized (aluminum optional except FMX) base, with rigid galvanized steel internal support structures. Housing shall not provide any of the internal structural support. Large diameter cooling tube shall provide ambient air to flow over motor. Units shall be equipped with an oversized electrical conduit chase through the curb cap and into the motor compartment for ease of wiring (except Explosion Proof). Units shall be prewired to a junction box mounted in the motor compartment and equipped with an electrical disconnect device (except Explosion Proof).

Statically and dynamically balanced backward inclined, centrifugal wheels shall be aluminum, spark-resistant, nonoverloading, and be matched to deeply spun venturis. Motors shall be continuous duty, ball bearing design, permanently lubricated, mounted out of the main airstream, and furnished at the specified voltage, phase, and enclosure. Shafts shall be turned, ground and polished. Heavy duty ball bearings are rated for a minimum L50 life exceeding 200,000 hours. Pulleys shall be adjustable, cast iron, machined, keyed, securely attached, and sized for 150% of the horsepower at its rated maximum speed. Each fan shall bear the AMCA Certified Ratings Seal for Air and Sound Performance (FX) or for Air performance (FMX), and shall be UL (UL Std. 705, UL Std. 762 optional) and CSA listed. If specified (Fatrap option), fan shall additionally provide UL 762 Listing rated at 400° F. (300° F. FMX), motor pre-wired to a weather-proof junction box, and drain connection leading into a grease collector/separator box. If specified (heat and smoke removal option), fan shall additionally provide UL listing rated for 500°F at 4-hours and 1000°F at 1 hour, including steel wheel and additional cooling tube.

### › Direct Drive Fans

Direct drive centrifugal roof exhaust upblast fan shall be Fumex FX, manufactured by PennBarry, Richardson, TX 75081. The housing shall be weatherproof, utilize heavy gauge spun aluminum construction with a large rolled bead for strength, with galvanized (aluminum optional) base, with rigid galvanized steel internal support structures. Housing shall not provide any of the internal structural support. Units shall be equipped with an oversized electrical conduit chase through the curb cap and into the motor compartment for ease of wiring (except Explosion Proof). Units shall be pre-wired to a junction box mounted in the motor compartment and equipped with an electrical disconnect device (except Explosion Proof).

Statically and dynamically balanced backward inclined, centrifugal wheels shall be aluminum, spark-resistant, nonoverloading, and matched to deeply spun venturis. Motors shall be continuous duty, permanently lubricated, multispeed (for applicable models), have thermal overload protection, mounted out of the main airstream, be easily accessible for service, and furnished at the specified voltage, phase and enclosure. Each fan shall bear the AMCA Certified Ratings Seal for Air and Sound Performance, and shall be UL (UL Std. 705, UL Std. 762 optional applicable models) and CSA listed. If specified (Fatrap option), fan shall additionally provide UL 762 Listing rated at 400° F., motor pre-wired to a weather-proof junction box, and drain connection leading into a grease collector/separator box.

### › Product Configuration

Reference PennBarry's selection software to configure a Fumex product today.

F  
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## 1-Year Limited Manufacturer Warranty

### › Products Covered

PennBarry Fans and Ventilators (each, a “PennBarry Product”)

### › One Year Limited Warranty For PennBarry Products

PennBarry warrants to the original commercial purchaser that the PennBarry Products will be free from defects in material and workmanship for a period of one (1) year from the date of shipment.

### › Exclusive Remedy

PennBarry will, at its option, repair or replace (without removal or installation) the affected components of any defective PennBarry Product; repair or replace (without removal or installation) the entire defective PennBarry Product; or refund the invoice price of the PennBarry Product. In all cases, a reasonable time period must be allowed for warranty repairs to be completed.

### › What You Must Do

In order to make a claim under these warranties:

- You must be the original commercial purchaser of the PennBarry Product.
- You must promptly notify us, within the warranty period, of any defect and provide us with any substantiation that we may reasonably request.
- The PennBarry Product must have been installed and maintained in accordance with good industry practice and any specific PennBarry recommendations.

### › Exclusions

These warranties do not cover defects caused by:

- Improper design or operation of the system into which the PennBarry Product is incorporated.
- Improper installation.
- Accident, abuse or misuse.
- Unreasonable use (including any use for non-commercial purposes, failure to provide reasonable and necessary maintenance as specified by PennBarry, misapplication and operation in excess of stated performance characteristics).
- Components not manufactured by PennBarry.

### › Limitations

- In all cases, PennBarry reserves the right to fully satisfy its obligations under the Limited Warranties by refunding the invoice price of the defective PennBarry Product (or, if the PennBarry Product has been discontinued, of the most nearly comparable current product).
- PennBarry reserves the right to furnish a substitute or replacement component or product in the event a PennBarry Product or any component of the product is discontinued or otherwise unavailable.
- PennBarry's only obligation with respect to components not manufactured by PennBarry shall be to pass through the warranty made by the manufacturer of the defective component.

### › General

The foregoing warranties are exclusive and in lieu of all other warranties except that of title, whether written, oral or implied, in fact or in law (including any warranty of merchantability or fitness for a particular purpose).

PennBarry hereby disclaims any liability for special, punitive, indirect, incidental or consequential damages, including without limitation lost profits or revenues, loss of use of equipment, cost of capital, cost of substitute products, facilities or services, downtime, shutdown or slowdown costs.

The remedies of the original commercial purchaser set forth herein are exclusive and the liability of PennBarry with respect to the PennBarry Products, whether in contract, tort, warranty, strict liability or other legal theory shall not exceed the invoice price charged by PennBarry to its customer for the affected PennBarry Product at the time the claim is made.

*Inquiries regarding these warranties should be sent to: PennBarry, 1401 North Plano Road, Richardson, TX 75081*

# Other PennBarry Products

## Centrifugal Products



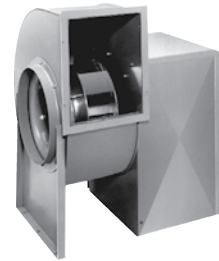
› **Domex**  
Centrifugal  
Roof Exhausters



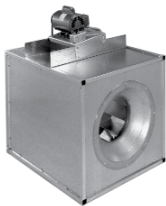
› **Fumex Fatrap**  
Kitchen Hood Centrifugal  
Roof Exhausters



› **Zephyr**  
Ceiling and Inline Fans



› **Dynamo**  
Centrifugal Blowers



› **Centrex Inliner**  
Centrifugal Inline Fan



› **LC Dynafan**  
Low Contour Centrifugal  
Roof Exhausters

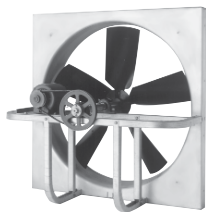


› **ESI**  
Efficient Silent  
Inline Fan



› **Fume Exhaust**  
Curb Mounted  
Centrifugal Fans

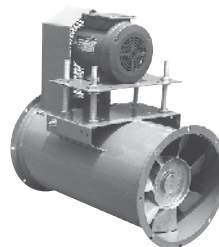
## Axial / Gravity Products



› **Breezeway**  
Propeller Wall Fan



› **Hi-Ex**  
Power Roof Ventilator



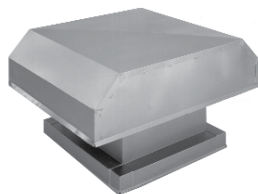
› **Tubeaxial**  
Inline Fans



› **Vaneaxial**  
Inline Fans



› **Powered Airette**  
Axial Roof Ventilators



› **Airette**  
Gravity Intake/Relief Hood



› **Domex Axial**  
Axial Roof Ventilators



› **Axcentrix**  
Bifurcator Fan



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For more information, contact your local PennBarry Sales  
Manufacturer Representative or visit us at [www.PennBarry.com](http://www.PennBarry.com).

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