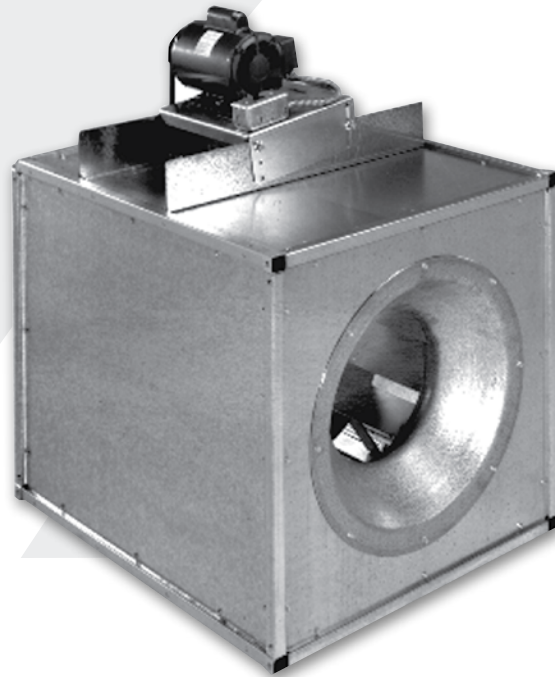




Bulletin SX09



CENTREX INLINER

Model: SX
Centrifugal Inline Fans
Direct Drive and Belt Drive

MOVING YOUR WAY

Table of Contents

› Centrex Inliner

Model: SX

Direct Drive

- Static pressure up to 1.75 in. wg.
- Flow capacity up to 3000 CFM

Standard Duty Belt Drive

- Static pressure up to 2.5 in. wg.
- Flow capacity up to 27,500 CFM

High Pressure Belt Drive

- Static pressure up to 3.5" in. wg.
- Flow capacity up to 9,200 CFM



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› AMCA Certification

PennBarry certifies that the Centrex Inliner models shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publications 211 and 311, and comply with the requirements of the AMCA Certified Ratings Program.



› UL Certification

Centrex Inliner fans carry the UL label, UL 705 (ZACT), listed under File #E28413. Check Underwriters Laboratories Re-Examination Service for specific units listed.



› CSA Certifications

Centrex Inliner 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.

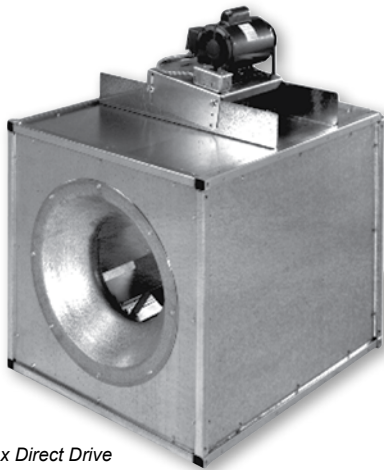
Introduction

Centrex Inliner

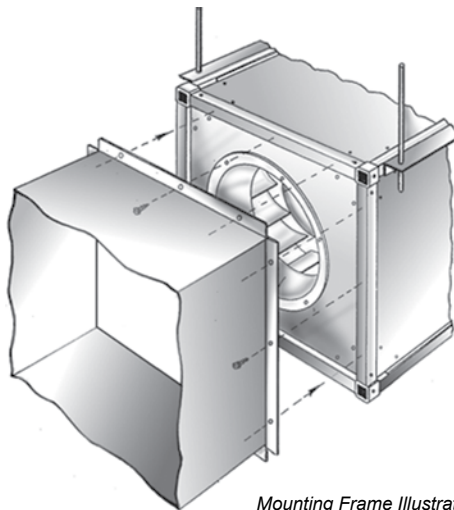


General Information

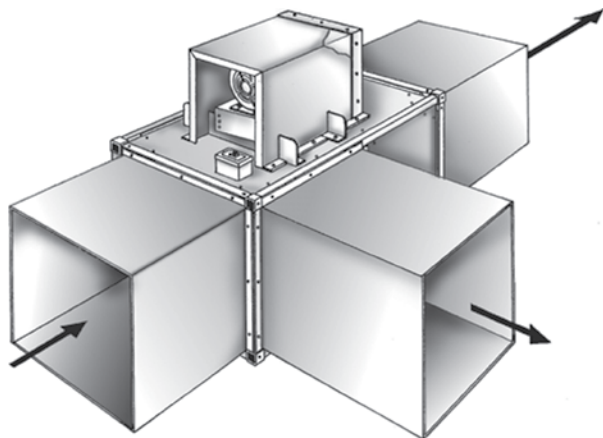
Centrifugal Inline Fans



Centrex Direct Drive



Mounting Frame Illustration



Side Duct Illustration

› Centrex Inliner

Centrex Inliner fans are widely used in square ducts as clean air boosters in both supply and exhaust systems where the installation of conventional blowers is impractical. Their compact design gives designers an excellent alternative to conventional blowers.

As an integral part of a ventilation system layout, Centrex Inliner fans can be installed either horizontally, vertically or at any angle determined by the duct work. Full-size removable panels enable easy access to the fan interior. Direct-drive motors are isolated from the airstream. Belt drive motors are mounted on the outside housing and can be positioned at any angle to avoid existing building obstructions. Optional motor covers are available as belt guards.

Centrex Inliner fans feature durable galvanized steel construction (aluminum is optional for selected belt drive models), which works in conjunction with a patented wheel design and deeply spun inlets to provide smoother flow through the ventilator. The centrifugal wheels are aluminum, non-overloading, backwardly inclined, robotically welded, and dynamically balanced.

› Centrex Inliner

Direct Drive

- Static pressure up to 1.75 in. wg.
- Flow capacity up to 3000 CFM

Standard Duty Belt Drive

- Static pressure up to 2.5 in. wg.
- Flow capacity up to 27,500 CFM

High Pressure Belt Drive

- Static pressure up to 3.5" in. wg.
- Flow capacity up to 9,200 CFM

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› Silent Wheel (Direct Drive and SX100/120BC)

- 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 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.

› Support Angles

Shipped loose with every unit, these heavy-gauge angles attach to long corner posts. They can also be used to install vibration isolator devices or to bolt the unit to a solid foundation.

› Reverse Venturi

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

› Self-Aligning Bearings

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

› Drive 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.

› Aluminum Wheels

Centrex Inliner 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.

› Internal Wiring

All models with ODP motors are wired to an appropriate external junction box. An appropriately sized disconnect switch is available. The initial electrical connection does not require the removal of any access panels.

› Sound Performance

Units deliver outstanding air performance with minimal noise.

› Structural Integrity

Corner post structural members are joined at their corners by an aluminum extrusion and then firmly locked in place to form a rigid framework.

› Unique Mounting Frame

Unique "fully flush" mounting frame allows installers to quickly fabricate "flanged" duct ends which can be easily secured with common sheet metal hardware. The duct is connected to a heavy-gauge corner post ensuring a substantial wall for the fastener threads and a rigid base to hold the shape of the ductwork.

› Three Removable Panels

Both side panels are removable for inspection, periodic maintenance, or optional discharge ducting. And, if required for cramped close-to-the-wall installations, once either side panel is removed, the bottom panel can then be removed.

› Benefits of Duct Arrangement

Because of the rigid corner post construction of the Inliner, three of the four panels can be removed; only the top motor mounting side is fixed. The removal of these panels is usually for inspection and normal maintenance.

However there is another, and often overlooked, benefit to having this type construction. Any of these three panels, or all of them, can be removed and replaced by a duct connection. This option allows ducting directly out of the sides or bottom of the unit.

- Eliminates the static pressure duct loss through duct fittings.
- Eliminates the cost of one or more field duct fittings.
- Possible with no performance penalty.

In some cases, just the space savings of transitioning directly from the unit can translate into a large savings by eliminating a lengthy "out of the way" run of duct.

› Minimum Duct Dimensions

Model	in.
SX85 DD, SX95 DD, SX100 BC	7
SX125BC	11
SX115 DD, SX120BC, SX155BC	12
SX125BCH	13
SX205BCH	14
SX165BC, SX205BC	16
SX225BCH	17
SX275BC	19
SX225BC	20
SX335BC	24
SX420BC	30

A side discharge duct may either be the full panel size, or smaller if desired. However, if not using a full panel, the duct opening must be installed at the inlet (wheel end) of the unit to avoid excessive "system effect" turbulence. In either case, the corner posts provide an effective surface for duct joints.

If this side ducting method is used, the typical straight through outlet may or may not be blocked, depending upon the application.

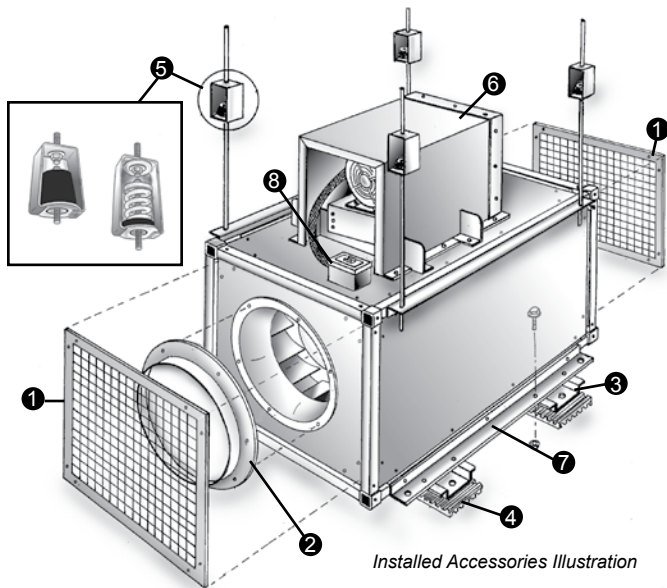
Introduction

Centrex Inliner



Options & Accessories

Centrifugal Inline Fans



Installed Accessories Illustration

› Fan Guards (1)

Both inlet and outlet guards are available whenever the unit is a termination point. Guards are highly recommended whenever the fan is mounted within seven feet of occupied space and/or otherwise unprotected ductwork. Each application must be reviewed for compliance with OSHA standards.

› Inlet Rings (2)

Structural angles formed as circles can be provided to connect unit to round duct systems.

› Support Channels (3)

A pair of formed channels can be used to mount the units horizontally to a solid base.

› Vibration Isolators (4)

A variety of isolation devices for floor mounting are available, including flex pads and rubber in shear or spring isolators. These can be used in conjunction with support angles (standard) or support channels (optional).

› Vibration Hangers (5)

To support installation from overhead structural members, these rubber in shear or spring type isolators attach to threaded rods provided by the installer. Vibration hangers are attached to the unit by support angles (standard) or support channels (optional).

› Motor Cover (6)

Normally provided as a belt guard.

› Support Angels (7)

These are provided as standard. It is not necessary to order as an accessory.

› Safety Disconnect Switch (8)

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 and explosion proof installations. Disconnects are to be field wired by a licensed electrician.

› AMCA B Construction

Belt drive models, up through SX205BC, are available with aluminum panels and corner posts.

› 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.

› Finishes

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

› Firestat Switch

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

› Time-Delay Switch (Direct Drive models only)

The Airminder Model AM12 switch is a UL listed 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 Airminder 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.

› 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 motor cover 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).



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› Filter Box

The filter box is designed for compatibility with the Square Centrex Inliner Fan. The filter box can be directly coupled to the Square Centrex inlet or installed remotely to the Square Centrex in the system ductwork.

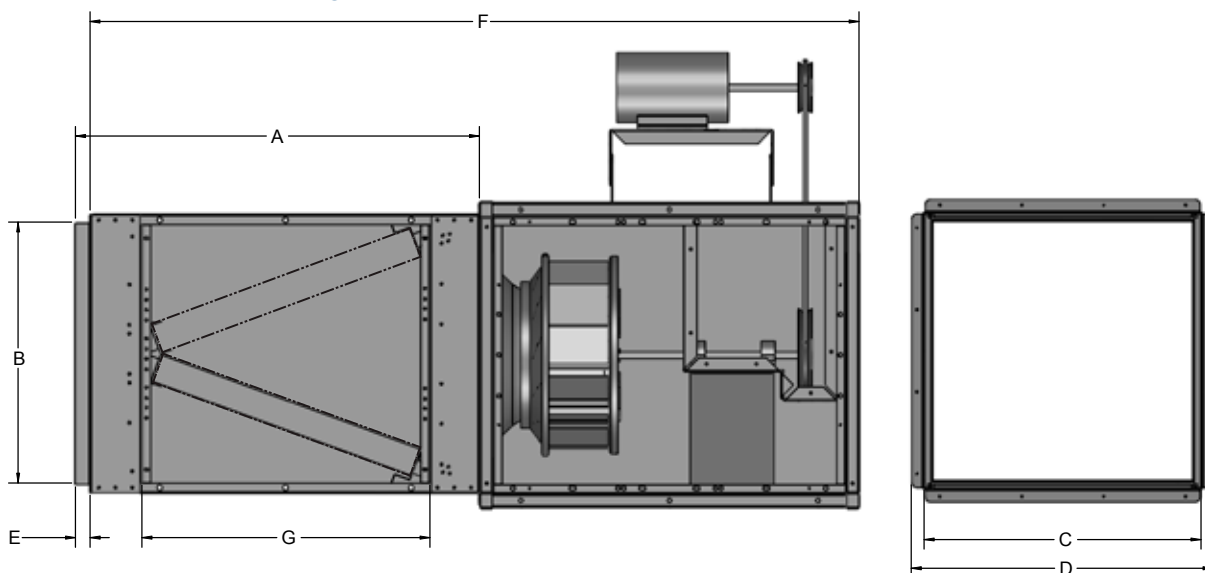
› Washable Filters

The unit is designed to handle 1" or 2" filters by utilizing tabs in the filter tracks. The filter media is washable aluminum available with a 1" or 2" inch thickness. Disposable filters are also available.

› Removable Side Panels

The side panels are removable for easy filter access from either side of the unit.

› Filter Box Dimensional Drawings



› Direct Drive Dimensions

Direct Drive	A	B	C	D	E	F	G	Filters Qty/Size
SX085	26.96	12.67	13.90	15.75	1.00	42.22	20.89	1 14 x 20
SX095	26.96	12.67	13.90	15.75	1.00	50.0	20.89	1 14 x 20
SX115	28.87	18.67	19.80	21.64	1.00	55.0	20.37	2 20 x 20

› Belt Drive Dimensions

Belt Drive	A	B	C	D	E	F	G	Filters Qty/Size
SX100BC	26.96	12.67	13.90	15.75	1.00	49.97	20.89	2 14 x 20
SX120/125BC	34.70	18.67	19.80	21.64	1.00	60.71	26.32	3 20 x 25
SX155/165BC	30.08	24.78	25.81	27.66	1.00	62.08	21.33	4 20 x 25
SX205BC	35.08	24.78	25.81	27.66	1.00	67.08	26.28	4 25 x 25
SX225BC	35.22	29.46	30.41	32.98	1.50	69.73	25.95	4 16 x 25 4 14 x 25
SX275BC	36.05	36.71	38.47	41.04	1.50	78.55	25.71	4 25 x 25 4 14 x 25
SX335BC	37.35	45.21	46.87	49.44	1.50	83.86	25.91	15 16 x 25
SX420BC	38.78	55.57	57.17	59.74	1.50	91.28	25.27	10 16 x 25 5 25 x 25

› Pressure Drop

	Aluminum Washable Rated at 350 FPM		Pleated Rated at 500 FPM	
	1"	2"	1"	2"
85	0.023	0.036	0.24	0.22
95/100	0.011	0.016	0.24	0.22
115	0.015	0.024	0.24	0.22
120/125	0.009	0.013	0.24	0.22
155/165	0.010	0.016	0.24	0.22
205	0.009	0.013	0.24	0.22
225	0.010	0.016	0.24	0.22
275	0.012	0.019	0.24	0.22
335	0.013	0.020	0.24	0.22
420	0.015	0.024	0.24	0.22

All dimensions in inches.

Motor Selection

› Motor Selection

After choosing a fan model from the Direct Drive or Belt Drive Performance Data sections, it is important to review the motor availability charts in this section before specifying electric motors for your particular needs. Factors which influence the selection process are discussed below.

› Electric Power Considerations

First, determine the nature of the electric power feeding the motor. Is it single phase or three phase power? Next, determine the required line voltage. Is it 115V, 230V, 460V? If your HVAC application is in the U.S., the frequency of the alternating current will be 60 Hz. All of North America and most of Central and South America use 60 Hz as does Saudi Arabia. Most other countries in the world use 50 Hz.

› Environmental Considerations

Standard motors supplied with fans are called Open Drip Proof (ODP) motors. Other types of motors may be required to meet specific field conditions; high temperature (50°C) or Totally Enclosed (TE) are two examples. Hazardous environments require Explosion Proof motors. Standard Explosion Proof motors are rated for Class 1, Group D, Div. 1 and Class II, Groups F and G, Div. 1 applications. Motors for other classes and groups may also be available. Please consult your local PennBarry representative for information.

› Direct Drive Motor Ability

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. PennBarry's FanSizer will ensure accurate selections.

› Direct Drive Motor Options

					1 Phase									3 Phase				
Nominal RPM					115 Volts			200 - 240 Volts						200 - 460 Volts				
Model	1050 V	1300 V	1550 V	1725 V	Open Drip Roof	Totally Enclosed	Expl. Proof (4)	Open Drip Roof	Fully Enclosed	50 hz	50°C Ambient	Expl. Proof (4)	Open Drip Roof	Fully Enclosed	50 hz	50°C Ambient	Expl. Proof (4)	
SX085RC					-	yes	-	TE Motors Use	yes	yes	yes	-	TE Motors Use	-	-	-	-	
SX095V/S/RC	X	X	X		yes	yes (1)	-		yes (1)	yes (1)	yes (1)	-		-	-	-		
SX095QC				X	yes	yes	yes		yes	yes	yes	yes (5)		yes	yes	yes (6)		
SX115V/S/RC	X	X	X		yes	yes (1)	-		yes (1)	yes (1)	yes (1)	-		-	-	-		
SX115Q1C				X (3)	yes	-	-		-	-	-	-		-	-	-		
SX115Q2C				X	yes	yes	yes		yes	yes	yes	yes (5)		yes	yes	yes	yes (6)	

NOTE: (1) High speed only. (2) 200 - 240, 380, 415, 460 V (3) Nominal 1650 RPM (4) Cls. I, Grp. D, Div. I/Cl. 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.

Caution: Hazardous environments require that fans be built for such service. (Care must be taken regarding the location of these fans in the duct run and surrounding environment). All belt drive inline fans, regardless of manufacturer, inherently leak. Additionally, the flat access panels supplied are not designed to provide air-tight service. Duct systems, except those fully welded, are not air-tight.

› Lek-Trol™ Controller Options

The table below shows the availability of Lek-Trol controllers for direct drive models. There is a controller available for all size models. Not all totally enclosed motors are currently available with variable speed control.

› Lek-Trol™ Controller Chart

Model	60 Hz.					50 Hz.		
	Open Drip Proof	Totally Enclosed				Totally Enclosed		
	115 V	115 V	200 V	208 V	230 V	110 V	220 V	240 V
SX085RC	-	LT30	LT35	LT35	LT35	LT35	LT35	LT35
SX095V/S/RC	LT30	LT30	LT35	LT35	LT35	LT35	LT35	LT35
SX095QC	LT45	LT30	LT35	LT35	LT35	LT35	LT35	LT35
SX115V/S/RC	LT50	-	-	-	-	-	-	-
SX115Q1C	LT40	-	-	-	-	-	-	-
SX115Q2C	LT40	-	-	-	-	-	-	-

Note: Lek-Trols indicated for multi-speed models are applicable only for the high speed. Do not use on low or medium speed for multi-speed models.

› Belt Drive Motor Ability

The chart below lists horsepower, voltages, and enclosure types. After selecting a model and horsepower that meets performance requirements, an engineer can verify that the desired voltage and enclosure are the same (or smaller) as the maximum NEMA motor frame shown for each model (see NEMA Motor Frame Size chart).

› Belt Drive Motor Ability Chart

HP	Single Phase					200V, 230V, 460V or 575V Three Phase			
	Open Drip Proof		TE	Explosion Proof	2 Speed 2 Wdg.	Open Drip Proof	TE	Explosion Proof	2 Speed 2 Wdg.
	115V	230 V	115/200						
1/4	48	48	48	46/58	48	48	48	48	-
1/3	46/58	46/58	56	56	56	56	56	56	-
1/2	46/58	46/58	56	56	56	56	56	56	56
3/4	56	56	56	56	56	56	56	56	56
1	56	56	56	56	56	56	56	56	145T
1 1/2	56	56	145T	184T	-	56	56	56	182T
2	145T	145T	182T	182T	-	56/145T	145T	145T	182T
3	184T	184T	184T	215T	-	56/145T	182T	182T	184T
5	184T	184T	184T	-	-	184T	184T	184T	215T
7 1/2	-	-	-	-	-	213T	213T	213T	215T
10	-	-	-	-	-	215T	215T	215T	256T

NOTE: On horsepower less than 1 1/2, motor frame sizes may change due to variations in voltage, special features and motor manufacturer.

› NEMA Motor Size Frame Chart

Model	Max Frame Size
SX100BC	213 T
SX120BC	213 T
SX125B(H)C	213 T
SX155BC	213 T
SX165BC	213 T
SX205B(H)C	213 T
SX225B(H)C	213 T
SX275BC	215 T
SX335BC	215 T
SX420BC	215 T

› NEMA Motor Size Frame

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

Introduction

Centrex Inliner



SX085, SX095, & SX115

Direct Drive Introduction

Centrex Inliner direct drive models (except size 085) are available with single and multi-speed motors. Multi-speed motors are designated V (1050 RPM), S (1300 RPM), and R (1550 RPM) (SX085R is an exception being a single speed motor). Q, Q1, Q2 (1725/1760 RPM) are single speed motors. A single Centrex Inliner fan may be suitable for several requirements by a simple wiring change. This feature provides flexibility for a variety of reasons, including energy savings, future expansion or unexpected field variations.

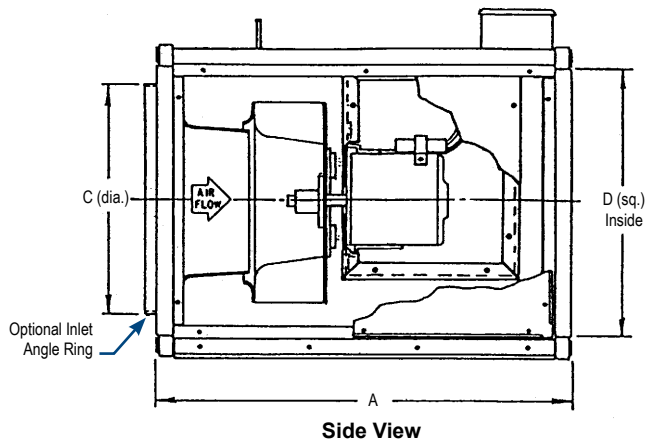
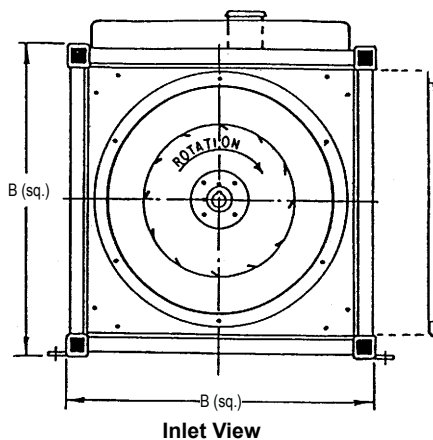
By using Lek-Trol variable speed controllers, the high speed flow rate of most models can be reduced by as much as 50%. Do not use on medium or low speed for multi-speed models.

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

Centrex Inliner direct drive models are available in three sizes (085, 095, 115). Capacities range from below 500 CFM to over 2750 CFM, with static pressures from 0" to above 1 1/2".

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

Direct Drive Dimensional Data



Direct Drive Dimensional References

Model No.	Galv. Side Panel	Galv. Venturi	A	B (sq.)	C (dia.)	D (sq.)	Est. Ship Weight
SX085RC	20 gauge	18 gauge	16 1/8	15 3/4	11 3/4	13 3/4	35 lbs
SX095VC, SC, RC, & QC	20 gauge	16 gauge	24 1/8	15 3/4	11 3/4	13 3/4	50 lbs
SX115VC, SC, RC, Q1C, & Q2C	20 gauge	16 gauge	27 1/4	21 3/4	14 1/2	19 3/4	70 lbs

Fan Capacity - Cubic Feet Per Minute (CFM)

Fan Model	Nominal			Tip Speed FPM	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		1.750" 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
SX095VC	1/20	125	1050	3221	429	2.7	308	3.2	247	3.8	199	4.2	157	4.7	118	5.1	-	-	-	-	-	-	-	-
SX095SC	1/12	164	1300	3988	633	5	528	4.8	433	5.2	366	5.6	314	5.9	260	6.3	152	7	-	-	-	-	-	-
SX095RC	1/6	212	1550	4755	849	7.9	775	7.5	698	7.4	616	7.5	546	7.7	476	7.9	333	8.3	162	8.8	-	-	-	-
SX095QC	1/4	338	1725	5292	1111	10.6	1061	10.1	1011	10	960	10	907	10	851	10.6	728	13	556	12.2	200	10.8	-	-
SX115VC	1/6	437	1050	3788	1299	5.4	1061	5.6	876	5.8	754	5.9	663	6.1	595	6.3	461	6.9	335	7.5	192	8.2	-	-
SX115SC	1/3	494	1300	4690	1566	6.9	1382	6.8	1201	6.7	1041	6.7	922	6.6	830	6.9	655	7.5	487	8	305	8.7	103	9.5
SX115RC	1/2	566	1550	5592	1919	8.3	1779	8.2	1619	8	1459	7.9	1307	7.8	1167	7.7	932	8.1	710	8.6	465	9.3	213	10
SX115Q1C	1/2	701	1650	5953	2216	12.1	2133	11.6	2042	11.4	1952	11.3	1863	11.1	1755	11	1512	10.6	1220	10.2	873	10.6	491	11.1
SX115Q2C	3/4	894	1725	6223	2764	15.2	2673	14	2571	13.8	2476	13.7	2383	13.5	2285	13.3	2075	13	1823	12.6	1447	12.1	956	12.3

Performance shown is for installation Type B: Free Inlet, Ducted 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 B: free inlet fan sone levels. Performance ratings do not include the effects of appurtenances in the airstream. For models shown on this page, the AMCA Certified Ratings Seal applies to air and sound.

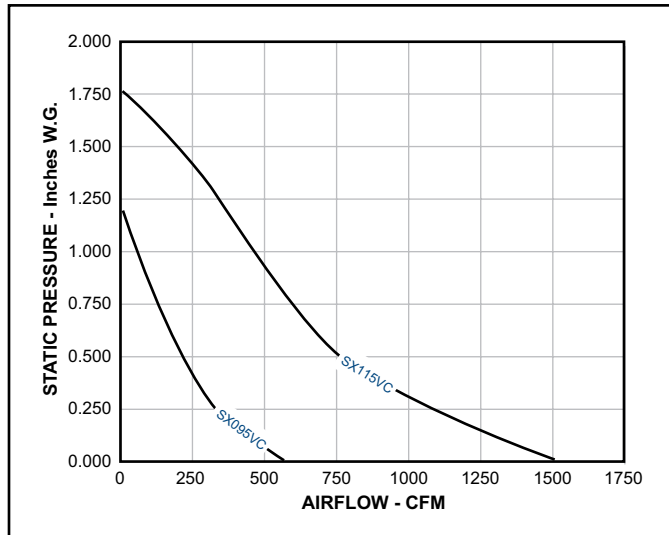
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› Fan Curves

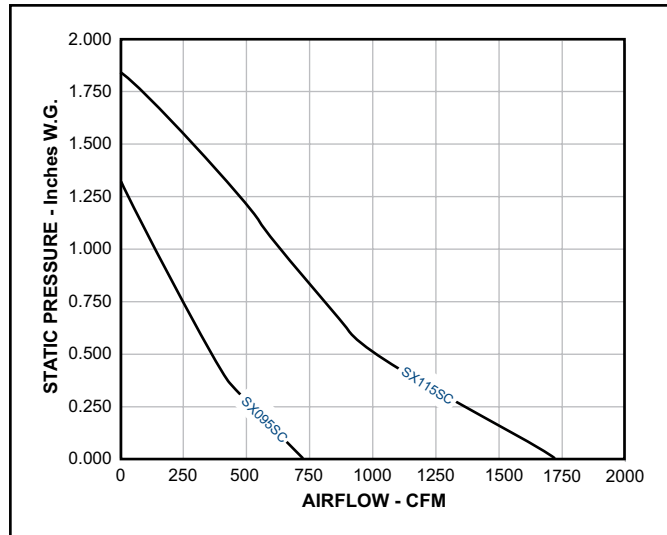
The fan curves illustrated here show the range of capacities available for direct drive units. Each graph shows the performance of several models at one particular nominal speed. Fan curves provide a quick method for selection of a fan unit based on design point requirements.

The direct drive performance chart on the previous page provides the tabular data (CFM and static pressure) used to plot the fan curves. In addition, 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.

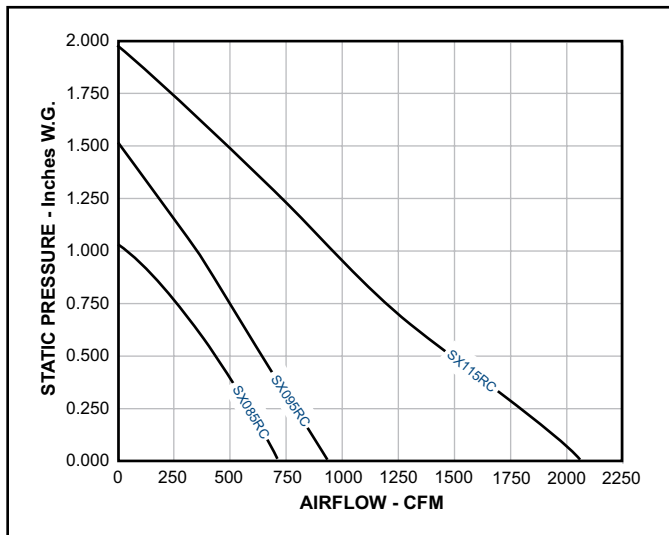
› Nominal 1050 RPM



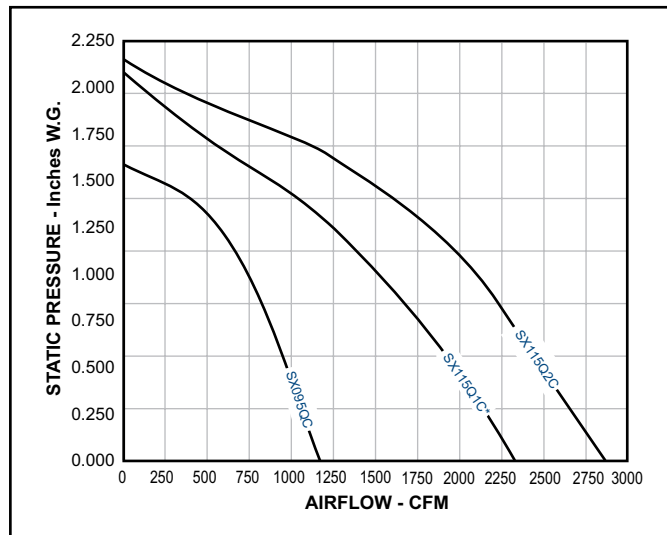
› Nominal 1300 RPM



› Nominal 1550 RPM



› Nominal 1550 RPM



Performance Data and Belt Drive Losses

› Performance Data

The eleven belt drive models shown on the following pages have sizes and capacities ranging from below 400 CFM to above 27,000 CFM, with static pressures from 0" to above 3.5". All models are available in up to eight different horsepower sizes with a wide range of RPM. Two-speed motors are commonly used to increase this flexibility.

The data provided for each belt drive model includes:

- Performance Chart
- Fan Curve Graph
- Elevation drawing showing overall dimensions

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 backwardly 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. PennBarry's software also factors an additional allowance for belt drive losses into the BHP calculations to ensure proper motor selection. This allowance is currently the most conservative in the industry.

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

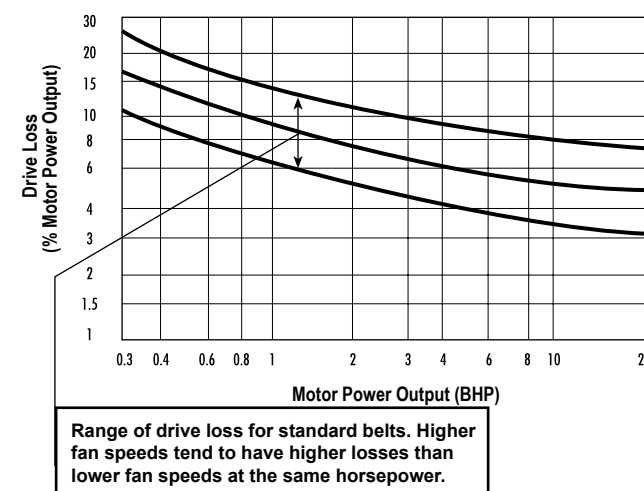
Note: Centrex Inliner fans are only one component of a total system. As such, performance is directly affected by the system. It is critical that system designers determine actual system losses to ensure that the actual flow is specified in the system range.

› Belt Drive Losses

The air performance tables shown in this catalog do include drive losses. When comparing the data found in our charts to data that does not include drive losses, the chart below will help estimate our equivalent brake horsepower (BHP).

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 lines 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%.

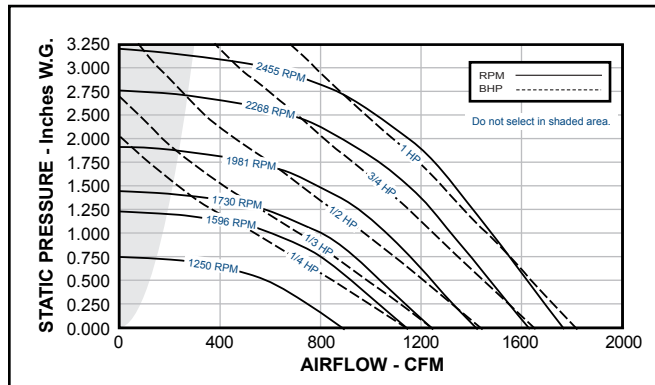
› Drive Loss Reference Chart



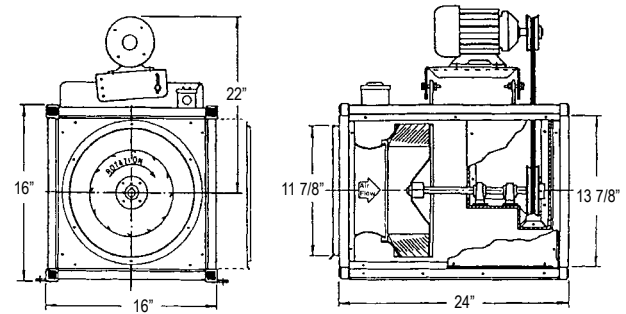
! For totally enclosed, explosion proof, multi-speed and all 1.0 Service Factor motors, fan BHP plus drive losses should not exceed motor rated HP.

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.

› SX100BC Fan Curves



› SX100BC Dimensional Data



Galv. Side Panel = 20 gauge	Alum. Corner Post = 0.064 in	Peak BHP = (RPM/2396) ³
Alum. Side Panel = 0.051 in	Damper Size = 16 in (sq)	Max. RPM = 2840 (1 HP)
Galv. Corner Post = 16 gauge	Max. Mtr. Frame Size = 213T	Est. Ship. Wts. (galv/alum) = 63/43 lbs

› SX100BC 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	900	2820	460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1000	3133	554	0.05	201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1100	3447	643	0.07	437	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1200	3760	728	0.09	573	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1300	4073	811	0.12	678	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1400	4387	892	0.15	772	0.16	460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1500	4700	972	0.18	861	0.20	614	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1596	5001	1047	0.22	944	0.24	737	530	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/3	1625	5091	1070	0.27	968	0.28	834	530	10.8	0.29	10.8	0.23	-	-	-	-	-	-	-	-	-	-
	1650	5170	1089	0.30	990	0.31	866	540	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1675	5248	1109	0.32	1011	0.32	886	549	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1700	5326	1128	0.34	1032	0.34	909	559	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1730	5420	1151	0.36	1057	0.36	929	569	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1775	5561	1186	0.37	1094	0.38	959	579	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/2	1825	5718	1224	0.40	1135	0.41	999	589	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1900	5953	1281	0.45	1197	0.46	1019	599	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1981	6207	1342	0.50	1262	0.52	1092	609	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2075	6501	1413	0.58	1337	0.66	1176	619	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4	2150	6736	1470	0.64	1397	0.71	1242	629	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2200	6893	1507	0.69	1437	0.77	1286	639	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2268	7106	1558	0.75	1490	0.81	1344	649	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2325	7285	1601	0.81	1534	0.85	1392	659	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	2350	7363	1620	0.83	1553	0.88	1414	669	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2375	7441	1639	0.86	1573	0.90	1435	679	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2425	7598	1676	0.91	1611	0.94	1477	689	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	2455	7692	1699	0.95	1634	0.97	1502	699	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			22.0	0.95	21.0	0.97	21.0	0.99	20.0	1.01	19.9	1.04	19.7	1.06	19.6	1.07	19.5	1.08	19.4	1.06	19.3	1.03

Performance shown is for installation type A - Free inlet, Free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The AMCA Certified Ratings Seal applies to air capacities only.

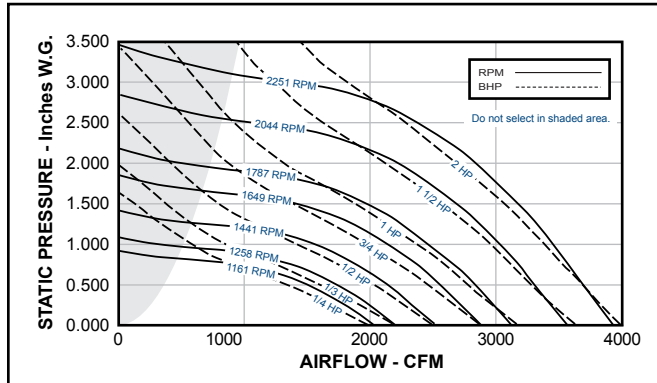
Dimensional Information & Performance Data

Centrex Inliner | Belt Drive

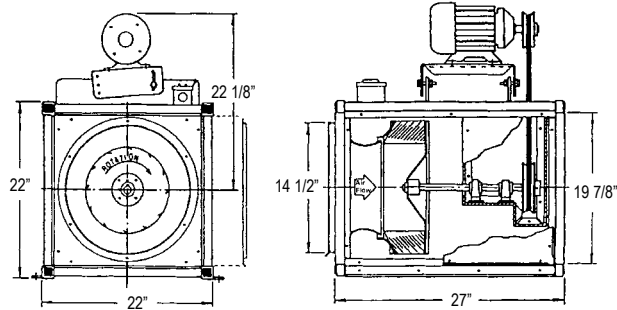


SX120BC

SX120BC Fan Curves



SX120BC Dimensional Data



Galv. Side Panel = 20 gauge	Alum. Corner Post = 0.064 in	Peak BHP = (RPM/1743) ³
Alum. Side Panel = 0.051 in	Damper Size = 22 in (sq)	Max. RPM = 2530 (2 HP)
Galv. Corner Post = 16 gauge	Max. Mtr. Frame Size = 213T	Est. Ship. Wts. (galv/alum) = 74/51 lbs

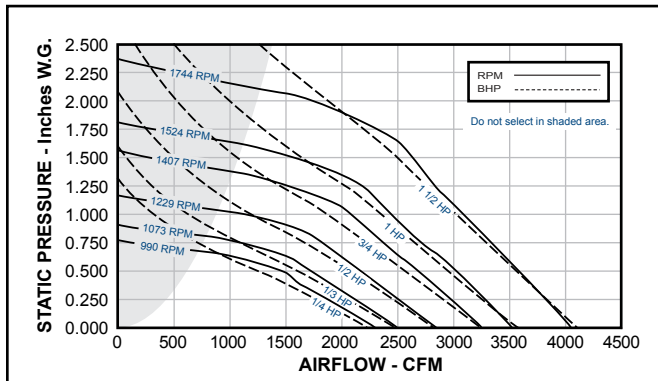
SX120BC Performance Data

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	775	2847	948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	925	3398	1309	645	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1161	4265	1800	1507	989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/3	1225	4500	1923	1660	1273	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1258	4621	1986	1737	1384	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1441	5293	2332	2140	1892	1560	167	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/2	1325	4867	2113	1890	1591	1045	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1400	5153	2255	2053	1792	1420	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1500	5510	2443	2264	2032	1747	1284	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4	1575	5785	2583	2415	2206	1968	1621	788	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1649	6057	2721	2559	2374	2148	1869	1439	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1787	6564	2976	2824	2668	2474	2264	1985	1582	-	-	-	-	-	-	-	-	-	-	-	-	-
1	1685	6190	2787	2628	2452	2235	1978	1609	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1715	6300	2843	2686	2516	2307	2067	1740	1037	-	-	-	-	-	-	-	-	-	-	-	-	-
	1755	6447	2917	2763	2601	2400	2185	1877	1397	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	1825	6704	3045	2896	2748	2562	2357	2104	1761	1003	-	-	-	-	-	-	-	-	-	-	-	-
	1875	6887	3137	2990	2852	2676	2478	2254	1957	1486	-	-	-	-	-	-	-	-	-	-	-	-
	1925	7071	3228	3085	2951	2787	2597	2400	2126	1761	906	-	-	-	-	-	-	-	-	-	-	-
2	1975	7255	3320	3179	3048	2894	2714	2523	2284	1991	1477	-	-	-	-	-	-	-	-	-	-	-
	2044	7508	3446	3310	3181	3040	2873	2690	2490	2226	1878	1168	-	-	-	-	-	-	-	-	-	-
	2075	7622	3502	3368	3241	3105	2943	2765	2581	2330	2024	1499	-	-	-	-	-	-	-	-	-	-
2 1/2	2125	7806	3593	3462	3337	3210	3057	2883	2705	2483	2216	1839	-	-	-	-	-	-	-	-	-	-
	2175	7989	3684	3556	3432	3314	3165	2999	2827	2632	2385	2076	-	-	-	-	-	-	-	-	-	-
	2200	8081	3729	3602	3480	3363	3218	3057	2887	2706	2469	2192	-	-	-	-	-	-	-	-	-	-
3	2225	8173	3775	3649	3527	3412	3271	3115	2947	2777	2546	2285	-	-	-	-	-	-	-	-	-	-
	2251	8269	3822	3697	3577	3462	3326	3174	3009	2841	2624	2373	-	-	-	-	-	-	-	-	-	-
	2251	8269	3822	3697	3577	3462	3326	3174	3009	2841	2624	2373	-	-	-	-	-	-	-	-	-	-

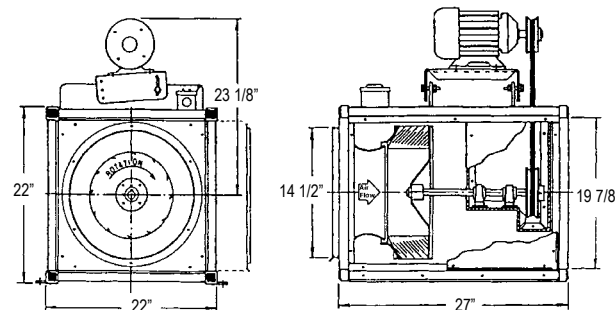
Performance shown is for installation type A - Free inlet, Free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The AMCA Certified Ratings Seal applies to air capacities only.

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› SX125BC Fan Curves



› SX125BC Dimensional Data



Galv. Side Panel = 20 gauge	Alum. Corner Post = 0.064 in	Peak BHP = (RPM/1485) ³
Alum. Side Panel = 0.051 in	Damper Size = 22 in (sq)	Max. RPM = 1835 (1 1/2 HP)
Galv. Corner Post = 16 gauge	Max. Mtr. Frame Size = 213T	Est. Ship. Wts. (galv/alum) = 90/62 lbs

› SX125BC 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	915	3803	1687		1140		-		-		-		-		-		-		-		-	
			8.6	0.23	8.2	0.22	-		-		-		-		-		-		-			
	950	3948	1789		1310		-		-		-		-		-		-		-		-	
			9.1	0.25	8.8	0.26	-		-		-		-		-		-		-			
990	4115	1901		1462		-		-		-		-		-		-		-		-		
		9.9	0.29	9.6	0.30	-		-		-		-		-		-		-				
1/3	1020	4239	1983		1559		-		-		-		-		-		-		-		-	
			10.2	0.31	9.9	0.32	-		-		-		-		-		-		-			
	1050	4364	2065		1647		894		-		-		-		-		-		-		-	
			10.4	0.34	10.1	0.35	9.8	0.29	-		-		-		-		-		-		-	
1073	4459	2128		1714		1105		-		-		-		-		-		-		-		
		10.5	0.36	10.3	0.37	10.1	0.34	-		-		-		-		-		-		-		
1/2	1110	4613	2228		1823		1337		-		-		-		-		-		-		-	
			10.8	0.40	10.6	0.41	10.5	0.40	-		-		-		-		-		-		-	
	1150	4779	2335		1941		1541		-		-		-		-		-		-		-	
			11.1	0.44	10.9	0.46	10.9	0.46	-		-		-		-		-		-		-	
1190	4946	2442		2062		1715		-		-		-		-		-		-		-		
		11.7	0.49	11.4	0.50	11.4	0.51	-		-		-		-		-		-		-		
1229	5108	2545		2184		1845		1194		-		-		-		-		-		-		
		12.0	0.54	11.7	0.55	11.8	0.57	11.7	0.50	-		-		-		-		-		-		
3/4	1265	5257	2641		2300		1956		1449		-		-		-		-		-		-	
			12.4	0.59	12.1	0.60	12.1	0.62	12.1	0.58	-		-		-		-		-		-	
	1335	5548	2825		2505		2159		1813		-		-		-		-		-		-	
			13.2	0.68	13.0	0.71	12.9	0.71	13.0	0.72	-		-		-		-		-		-	
1370	5694	2916		2605		2264		1967		1298		-		-		-		-		-		
		13.6	0.74	13.4	0.76	13.4	0.77	13.5	0.78	13.2	0.68	-		-		-		-		-		
1407	5848	3012		2707		2373		2090		1573		-		-		-		-		-		
		14.0	0.80	13.9	0.82	13.9	0.84	14.1	0.85	13.8	0.78	-		-		-		-		-		
1	1435	5964	3082		2784		2457		2182		1738		-		-		-		-		-	
			14.4	0.84	14.3	0.87	14.2	0.88	14.5	0.90	14.3	0.86	-		-		-		-		-	
	1465	6089	3156		2867		2549		2271		1896		-		-		-		-		-	
			14.8	0.90	14.7	0.93	14.6	0.94	14.9	0.95	14.8	0.93	-		-		-		-		-	
1495	6213	3231		2948		2642		2359		2038		1368		-		-		-		-		
		15.2	0.95	15.1	0.98	15.0	1.00	15.2	1.01	15.3	1.00	15.2	0.87	-		-		-		-		
1524	6334	3302		3027		2736		2443		2172		1610		-		-		-		-		
		15.5	1.00	15.4	1.04	15.3	1.05	15.5	1.07	15.8	1.08	15.7	0.98	-		-		-		-		
1 1/2	1555	6463	3379		3111		2834		2534		2277		1807		-		-		-		-	
			15.9	1.07	15.8	1.10	15.6	1.12	15.8	1.13	16.3	1.14	16.2	1.07	-		-		-		-	
	1585	6587	3453		3192		2922		2623		2376		1976		-		-		-		-	
			16.2	1.13	16.2	1.17	16.0	1.18	16.1	1.20	16.8	1.21	16.7	1.17	-		-		-		-	
1615	6712	3526		3273		3010		2712		2471		2127		1480		-		-		-		
		16.6	1.19	16.6	1.23	16.3	1.25	16.4	1.26	17.1	1.28	17.2	1.25	17.1	1.10	-		-		-		
1645	6837	3600		3353		3097		2800		2560		2267		1732		-		-		-		
		17.0	1.25	17.0	1.30	16.7	1.32	16.6	1.33	17.3	1.35	17.8	1.34	17.6	1.23	-		-		-		
1675	6961	3673		3433		3182		2892		2648		2399		1926		-		-		-		
		17.4	1.32	17.4	1.37	17.2	1.39	16.9	1.41	17.6	1.42	18.4	1.43	18.2	1.34	-		-		-		
1705	7086	3747		3512		3265		2985		2735		2500		2096		1350		-		-		
		17.8	1.39	17.8	1.44	17.6	1.46	17.3	1.48	17.9	1.50	18.8	1.51	18.8	1.44	18.5	1.21	-		-		
1744	7248	3842		3616		3373		3109		2849		2628		2296		1739		-		-		
		18.4	1.49	18.4	1.54	18.2	1.57	17.8	1.58	18.2	1.60	19.2	1.61	19.6	1.58	19.4	1.43	-		-		

Performance shown is for installation type A - Free inlet, Free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The AMCA Certified Ratings Seal applies to air capacities only.

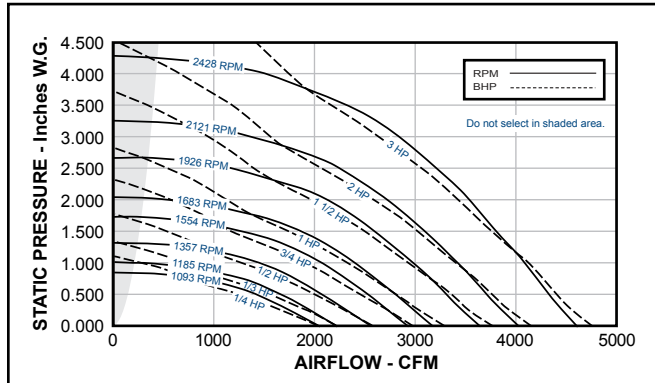
Dimensional Information & Performance Data

Centrex Inliner | Belt Drive

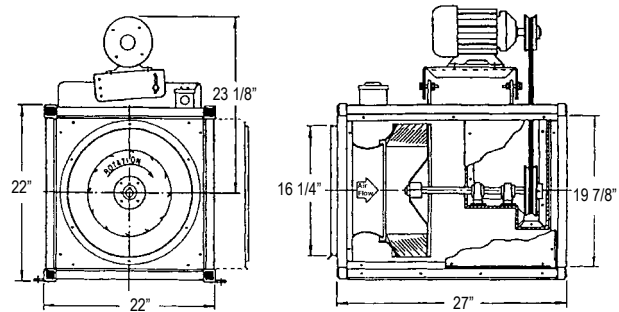


SX125BHC

SX125BHC Fan Curves



SX125BHC Dimensional Data



Galv. Side Panel = 20 gauge	Alum. Corner Post = 0.064 in	Peak BHP = (RPM/1642) ³
Alum. Side Panel = 0.051 in	Damper Size = 22 in (sq)	Max. RPM = 2725 (3 HP)
Galv. Corner Post = 16 gauge	Max. Mtr. Frame Size = 213T	Est. Ship. Wts. (galv/alum) = 90/62 lbs

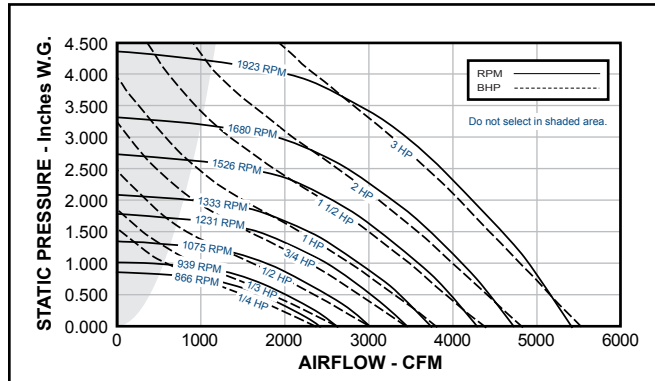
SX125BHC Performance Data

HP	RPM	Tip Speed FPM	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		3.500" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	1093	4543	936	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			9.1	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/3	1100	4572	9.2	0.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			1340	486	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			10.4	0.38	10.5	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/2	1275	5299	1616	1154	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			11.7	0.49	11.8	0.45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			1845	1508	870	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4	1425	5922	2022	1724	1288	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			13.6	0.64	13.6	0.65	13.8	0.63	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			2142	1874	1524	862	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	1475	6130	14.5	0.70	14.5	0.72	14.6	0.72	15.0	0.59	-	-	-	-	-	-	-	-	-	-	-	-
			2329	2095	1806	1371	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			15.8	0.82	15.8	0.83	15.9	0.85	16.0	0.81	-	-	-	-	-	-	-	-	-	-	-	-
1	1600	6650	2436	2221	1949	1600	985	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			16.4	0.89	16.5	0.91	16.6	0.92	16.7	0.91	17.1	0.77	-	-	-	-	-	-	-	-	-	-
			2553	2346	2098	1802	1310	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	1650	6858	17.3	0.97	17.4	0.99	17.6	1.01	17.6	1.01	17.8	0.94	-	-	-	-	-	-	-	-	-	-
			2629	2425	2191	1918	1506	792	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			17.5	1.02	17.6	1.05	17.8	1.07	17.9	1.08	18.1	1.04	18.7	0.81	-	-	-	-	-	-	-	-
1 1/2	1775	7377	2839	2644	2446	2203	1919	1471	691	-	-	-	-	-	-	-	-	-	-	-	-	-
			18.1	1.19	18.2	1.22	18.4	1.24	18.5	1.26	18.7	1.26	19.0	1.19	20.0	0.91	-	-	-	-	-	-
			2952	2761	2575	2348	2095	1746	1196	-	-	-	-	-	-	-	-	-	-	-	-	-
2	1825	7585	18.6	1.29	18.7	1.32	18.8	1.34	19.0	1.36	19.1	1.37	19.4	1.34	20.0	1.18	-	-	-	-	-	-
			3062	2877	2696	2488	2250	1964	1511	790	-	-	-	-	-	-	-	-	-	-	-	-
			19.1	1.39	19.2	1.43	19.3	1.45	19.5	1.47	19.6	1.49	19.8	1.48	20.0	1.39	21.0	1.09	-	-	-	-
2	1926	8005	3172	2996	2817	2629	2406	2160	1807	1275	-	-	-	-	-	-	-	-	-	-	-	-
			19.5	1.50	19.6	1.54	19.8	1.56	19.9	1.59	20.0	1.61	20.0	1.61	21.0	1.57	21.0	1.39	-	-	-	-
			3257	3084	2910	2735	2519	2283	1984	1520	-	-	-	-	-	-	-	-	-	-	-	-
2	1965	7167	19.8	1.58	19.9	1.63	20.0	1.66	20.0	1.68	20.0	1.70	21.0	1.71	21.0	1.69	21.0	1.58	-	-	-	-
			3343	3177	3004	2835	2631	2407	2146	1764	-	-	-	-	-	-	-	-	-	-	-	-
			20.0	1.67	20.0	1.72	20.0	1.76	20.0	1.78	21.0	1.80	21.0	1.82	21.0	1.81	22.0	1.75	-	-	-	-
3	2045	8499	3429	3268	3097	2931	2742	2530	2298	1973	713	-	-	-	-	-	-	-	-	-	-	-
			21.0	1.77	21.0	1.82	21.0	1.86	21.0	1.88	21.0	1.90	21.0	1.92	21.0	1.93	22.0	1.89	24.0	1.35	-	-
			3524	3370	3202	3039	2866	2662	2440	2172	1252	-	-	-	-	-	-	-	-	-	-	-
3	2090	8686	21.0	1.88	21.0	1.94	21.0	1.98	22.0	2.00	22.0	2.03	22.0	2.05	22.0	2.06	22.0	2.05	23.0	1.70	-	-
			3590	3439	3274	3113	2950	2750	2536	2291	1466	-	-	-	-	-	-	-	-	-	-	-
			22.0	1.96	22.0	2.02	22.0	2.06	22.0	2.09	22.0	2.11	22.0	2.14	23.0	2.15	23.0	2.15	24.0	1.89	-	-
3	2121	8815	3757	3611	3457	3299	3145	2970	2776	2562	1952	-	-	-	-	-	-	-	-	-	-	-
			23.0	2.17	23.0	2.23	23.0	2.28	23.0	2.32	24.0	2.34	24.0	2.37	24.0	2.39	24.0	2.40	24.0	2.31	-	-
			3862	3720	3571	3416	3265	3107	2917	2717	2206	1293	-	-	-	-	-	-	-	-	-	-
3	2250	9351	24.0	2.32	24.0	2.38	24.0	2.43	24.0	2.47	24.0	2.50	24.0	2.52	24.0	2.55	24.0	2.57	25.0	2.53	26.0	2.09
			3965	3827	3685	3532	3384	3236	3057	2870	2420	1639	-	-	-	-	-	-	-	-	-	-
			24.0	2.47	24.0	2.53	24.0	2.59	25.0	2.63	25.0	2.66	25.0	2.69	25.0	2.71	25.0	2.74	25.0	2.73	25.0	2.45
3	2300	9559	4067	3935	3798	3649	3502	3357	3195	3014	2612	1959	-	-	-	-	-	-	-	-	-	-
			25.0	2.63	25.0	2.69	25.0	2.75	25.0	2.79	25.0	2.83	25.0	2.86	25.0	2.88	25.0	2.91	26.0	2.93	26.0	2.77
			4169	4041	3908	3764	3619	3478	3332	3155	2776	2242	-	-	-	-	-	-	-	-	-	-
3	2400	9975	26.0	2.80	26.0	2.85	26.0	2.92	26.0	2.96	26.0	3.01	26.0	3.03	26.0	3.06	26.0	3.09	26.0	3.12	26.0	3.04
			4226	4101	3969	3828	3684	3544	3405	3232	2863	2372	-	-	-	-	-	-	-	-	-	-
			26.0	2.90	26.0	2.95	26.0	3.01	27.0	3.06	27.0	3.11	27.0	3.14	27.0	3.16	27.0	3.19	27.0	3.23	27.0	3.18

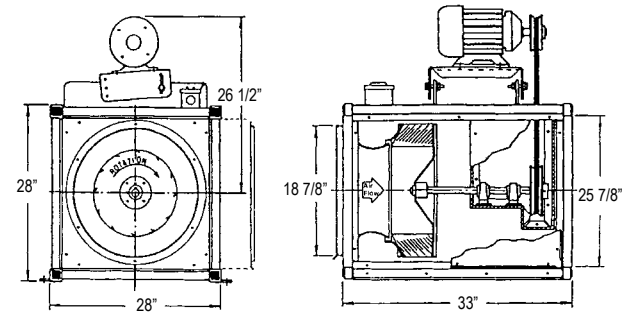
Performance shown is for installation type A - Free inlet, Free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The AMCA Certified Ratings Seal applies to air capacities only.

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› SX155BC Fan Curves



› SX155BC Dimensional Data



Galv. Side Panel = 20 gauge	Alum. Corner Post = 0.064 in	Peak BHP = (RPM/1301) ³
Alum. Side Panel = 0.051 in	Damper Size = 28 in (sq)	Max. RPM = 2150 (3 HP)
Galv. Corner Post = 16 gauge	Max. Mtr. Frame Size = 213T	Est. Ship. Wts. (galv/alum) = 137/94 lbs

› SX155BC 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	3669	1766		1232		-		-		-		-		-		-		-		-	
			7.6	0.19	7.5	0.19	-		-		-		-		-		-		-		-	
	866	4237	2152		1762		1180		-		-		-		-		-		-		-	
			9.0	0.29	8.9	0.29	8.9	0.27	-		-		-		-		-		-		-	
1/3	900	4403	2263		1902		1403		-		-		-		-		-		-		-	
			9.3	0.32	9.3	0.33	9.3	0.32	-		-		-		-		-		-		-	
	939	4594	2389		2053		1621		580		-		-		-		-		-		-	
			9.8	0.36	9.8	0.37	9.7	0.37	9.8	0.25	-		-		-		-		-		-	
1/2	1025	5015	2663		2375		2004		1531		-		-		-		-		-		-	
			10.7	0.47	10.7	0.49	10.7	0.48	10.7	0.47	-		-		-		-		-		-	
	1075	5259	2820		2546		2219		1821		1134		-		-		-		-		-	
			11.3	0.54	11.3	0.56	11.2	0.56	11.3	0.55	11.4	0.47	-		-		-		-		-	
3/4	1150	5626	3052		2797		2515		2168		1737		709		-		-		-		-	
			12.4	0.65	12.4	0.68	12.4	0.69	12.4	0.68	12.3	0.66	12.5	0.45	-		-		-		-	
	1231	6023	3296		3064		2821		2519		2179		1713		-		-		-		-	
			13.6	0.79	13.6	0.82	13.5	0.85	13.5	0.84	13.4	0.83	13.4	0.79	-		-		-		-	
1	1256	6189	3398		3175		2942		2660		2332		1935		1257		-		-		-	
			13.9	0.86	13.9	0.89	13.9	0.92	13.9	0.91	13.9	0.90	13.9	0.88	13.9	0.75	-		-		-	
	1300	6360	3502		3288		3062		2796		2486		2140		1629		-		-		-	
			14.4	0.93	14.3	0.97	14.3	0.99	14.3	0.99	14.4	0.98	14.4	0.97	14.4	0.90	-		-		-	
	1333	6522	3600		3395		3174		2923		2630		2316		1874		937		-		-	
			14.9	1.00	14.8	1.04	14.8	1.06	14.8	1.07	14.9	1.06	14.9	1.05	14.9	1.01	15.0	0.75	-		-	
1 1/2	1375	6727	3725		3529		3315		3083		2810		2506		2145		1607		-		-	
			15.5	1.09	15.5	1.14	15.5	1.16	15.5	1.18	15.6	1.17	15.6	1.16	15.6	1.14	15.6	1.04	-		-	
	1425	6972	3873		3688		3481		3271		3016		2728		2425		2003		1249		-	
			16.5	1.21	16.5	1.26	16.5	1.29	16.5	1.31	16.5	1.31	16.5	1.30	16.5	1.28	16.5	1.23	16.5	1.01	-	
	1475	7216	4021		3846		3646		3446		3210		2945		2661		2324		1856		-	
			17.6	1.34	17.5	1.39	17.5	1.42	17.5	1.45	17.5	1.45	17.5	1.44	17.5	1.43	17.4	1.41	17.4	1.32	-	
	1526	7466	4171		4006		3813		3620		3405		3163		2888		2607		2223		1675	
			18.7	1.48	18.7	1.54	18.6	1.57	18.5	1.60	18.5	1.61	18.4	1.60	18.4	1.59	18.4	1.58	18.3	1.53	18.2	1.38
2	1575	7706	4315		4159		3972		3785		3589		3358		3102		2837		2526		2112	
			19.9	1.62	19.8	1.69	19.7	1.72	19.6	1.75	19.5	1.77	19.4	1.77	19.3	1.75	19.3	1.74	19.2	1.72	19.1	1.64
	1600	7828	4389		4236		4053		3869		3683		3455		3210		2949		2663		2287	
			20.0	1.70	20.0	1.77	20.0	1.80	20.0	1.83	20.0	1.86	20.0	1.85	19.9	1.84	19.8	1.83	19.7	1.81	19.6	1.75
	1625	7950	4462		4312		4133		3952		3771		3551		3317		3060		2800		2448	
			21.0	1.78	21.0	1.85	21.0	1.88	21.0	1.91	21.0	1.95	21.0	1.94	20.0	1.93	20.0	1.92	20.0	1.91	20.0	1.86
	1650	8073	4535		4388		4213		4035		3856		3647		3423		3170		2916		2604	
			22.0	1.86	21.0	1.93	21.0	1.97	21.0	2.00	21.0	2.03	21.0	2.03	21.0	2.03	21.0	2.01	21.0	2.00	20.0	1.97
	1680	8219	4623		4478		4309		4134		3959		3761		3644		3300		3051		2772	
			22.0	1.96	22.0	2.03	22.0	2.07	22.0	2.11	21.0	2.14	21.0	2.15	21.0	2.14	21.0	2.13	21.0	2.12	21.0	2.09
3	1725	8440	4755		4613		4463		4282		4111		3931		3720		3494		3252		3009	
			22.0	2.12	22.0	2.19	22.0	2.24	22.0	2.27	22.0	2.31	22.0	2.33	22.0	2.32	22.0	2.31	22.0	2.30	22.0	2.29
	1775	8684	4900		4763		4611		4445		4279		4113		3912		3706		3471		3235	
			23.0	2.30	23.0	2.38	23.0	2.43	23.0	2.47	23.0	2.50	22.0	2.54	22.0	2.53	22.0	2.52	22.0	2.51	22.0	2.50
	1825	8929	5046		4913		4769		4607		4446		4284		4102		3902		3686		3457	
			24.0	2.50	23.0	2.58	23.0	2.64	23.0	2.67	23.0	2.71	23.0	2.75	23.0	2.76	23.0	2.75	23.0	2.74	23.0	2.72
	1875	9173	5192		5062		4925		4768		4611		4454		4290		4096		3899		3676	
			24.0	2.71	24.0	2.78	24.0	2.85	24.0	2.89	24.0	2.93	24.0	2.96	24.0	2.99	24.0	2.98	24.0	2.97	24.0	2.96
1900	9296	5264		5136		5004		4848		4693		4538		4383		4191		4000		3784		
		25.0	2.81	24.0	2.89	24.0	2.96	24.0	3.00	24.0	3.04	24.0	3.08	24.0	3.12	24.0	3.11	24.0	3.10	24.0	3.08	
	1923	9408	5331		5204		5075		4922		4769		4616		4463		4279		4090		3883	
		25.0	2.92	24.0	3.00	24.0	3.07	24.0	3.11	24.0	3.15	24.0	3.19	24.0	3.22	24.0	3.22	24.0	3.21	24.0	3.20	

Performance shown is for installation type A - Free inlet, Free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The AMCA Certified Ratings Seal applies to air capacities only.

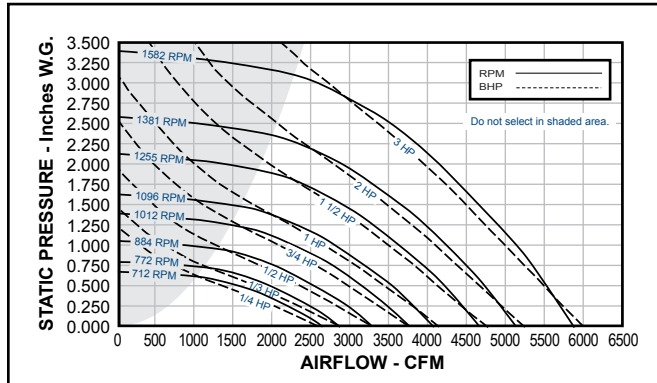
Dimensional Information & Performance Data

Centrex Inliner | Belt Drive

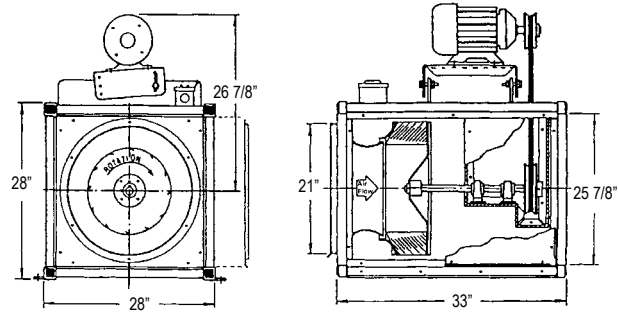


SX165BC

SX165BC Fan Curves



SX165BC Dimensional Data



Galv. Side Panel = 20 gauge	Alum. Corner Post = 0.064 in	Peak BHP = (RPM/1070) ³
Alum. Side Panel = 0.051 in	Damper Size = 28 in (sq)	Max. RPM = 1680 (3 HP)
Galv. Corner Post = 16 gauge	Max. Mtr. Frame Size = 213T	Est. Ship. Wts. (galv/alum) = 144/99 lbs

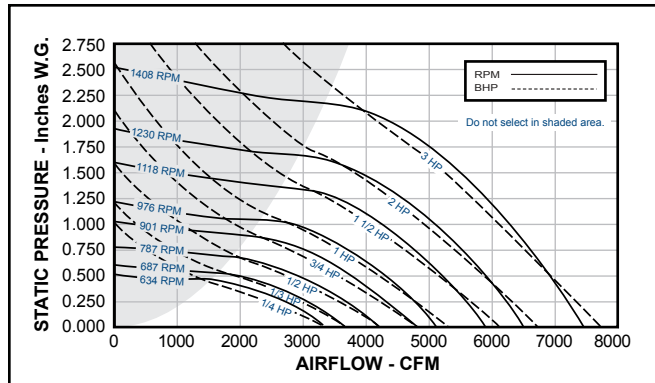
SX165BC Performance Data

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	660	3229	2043		-		-		-		-		-		-		-		-		-	
			8.3	0.23	-		-		-		-		-		-		-		-		-	
	712	3483	2282		1438		-		-		-		-		-		-		-		-	
			9.9	0.29	9.4 0.27		-		-		-		-		-		-		-		-	
1/3	740	3620	2411		1721		-		-		-		-		-		-		-		-	
			10.3	0.32	9.9 0.32		-		-		-		-		-		-		-		-	
	772	3777	2555		2002		-		-		-		-		-		-		-		-	
			10.6	0.36	10.1 0.37		-		-		-		-		-		-		-		-	
1/2	830	4061	2815		2364		1250		-		-		-		-		-		-		-	
			11.1	0.44	10.5 0.47		10.1 0.37		-		-		-		-		-		-		-	
	884	4325	3054		2652		1886		-		-		-		-		-		-		-	
			12.0	0.53	11.3 0.56		10.8 0.53		-		-		-		-		-		-		-	
3/4	930	4550	3255		2873		2326		-		-		-		-		-		-		-	
			12.8	0.61	12.0 0.65		11.4 0.64		-		-		-		-		-		-		-	
	970	4745	3428		3059		2619		1607		-		-		-		-		-		-	
			13.3	0.69	12.6 0.73		11.8 0.74		11.6 0.62		-		-		-		-		-		-	
1	1012	4951	3609		3251		2870		2087		-		-		-		-		-		-	
			13.8	0.78	13.1 0.82		12.3 0.84		12.1 0.78		-		-		-		-		-		-	
	1040	5088	3728		3380		3028		2371		-		-		-		-		-		-	
			14.4	0.85	13.6 0.88		12.8 0.92		12.5 0.88		-		-		-		-		-		-	
1 1/2	1070	5235	3856		5616		3183		2653		1590		-		-		-		-		-	
			14.9	0.92	14.2 0.96		13.5 1.00		13.0 0.97		12.8 0.78		-		-		-		-		-	
	1096	5362	3966		3633		3315		2861		1946		-		-		-		-		-	
			15.4	0.98	14.8 1.03		14.0 1.07		13.4 1.05		13.2 0.93		-		-		-		-		-	
2	1140	5577	4152		3831		3524		3148		2422		-		-		-		-		-	
			16.3	1.10	15.7 1.15		15.0 1.19		14.2 1.20		14.1 1.13		-		-		-		-		-	
	1180	5773	4320		4009		3709		3379		2817		1858		-		-		-		-	
			17.3	1.22	16.6 1.27		16.0 1.31		15.2 1.34		14.9 1.29		14.6 1.09		-		-		-		-	
3	1220	5969	4485		4186		3893		3597		3165		2352		-		-		-		-	
			18.1	1.34	17.6 1.40		16.8 1.44		16.1 1.48		15.6 1.45		15.4 1.33		-		-		-		-	
	1255	6140	4629		4340		4054		3774		3399		2717		1704		-		-		-	
			18.7	1.46	18.1 1.52		17.4 1.56		16.8 1.61		16.1 1.59		15.9 1.51		15.7 1.20		-		-		-	
4	1280	6262	4731		4450		4168		3898		3553		2965		2082		-		-		-	
			19.1	1.54	18.6 1.60		17.9 1.65		17.3 1.70		16.5 1.70		16.3 1.64		16.1 1.42		-		-		-	
	1305	6384	4833		4559		4281		4016		3697		3201		2400		-		-		-	
			19.5	1.63	19.0 1.69		18.3 1.74		17.8 1.79		17.0 1.81		16.8 1.76		16.5 1.60		-		-		-	
5	1330	6507	4936		4667		4394		4132		3839		3417		2670		-		-		-	
			19.9	1.72	19.5 1.79		18.8 1.83		18.3 1.89		17.6 1.92		17.2 1.88		17.0 1.75		-		-		-	
	1355	6629	5036		4776		4507		4248		3975		3592		2929		2036		-		-	
			20.0	1.82	19.9 1.89		19.3 1.93		18.8 1.99		18.1 2.03		17.6 2.00		17.4 1.90		17.1 1.60		-		-	
6	1381	6756	5142		4888		4623		4368		4108		3762		3188		2397		-		-	
			21.0	1.92	20.0 1.99		19.8 2.04		19.3 2.09		18.7 2.15		18.0 2.13		17.9 2.06		17.6 1.85		-		-	
	1420	6947	5300		5056		4798		4547		4305		3995		3548		2835		-		-	
			21.0	2.09	21.0 2.16		21.0 2.21		20.0 2.26		19.5 2.33		18.8 2.32		18.5 2.27		18.3 2.13		-		-	
7	1460	7143	5461		5227		4976		4730		4494		4222		3855		3248		2480		-	
			22.0	2.26	22.0 2.34		21.0 2.40		21.0 2.45		20.0 2.51		19.6 2.54		19.2 2.50		19.0 2.40		18.8 2.16		-	
	1510	7387	5663		5440		5197		4958		4727		4486		4176		3724		3048		2197	
			23.0	2.50	23.0 2.58		22.0 2.65		22.0 2.69		21.0 2.75		21.0 2.81		20.0 2.79		19.9 2.73		19.7 2.57		19.4 2.18	
8	1550	7583	5824		5609		5372		5138		4911		4688		4408		4047		3459		2752	
			23.0	2.70	23.0 2.78		23.0 2.85		23.0 2.90		22.0 2.96		22.0 3.03		21.0 3.03		21.0 2.98		20.0 2.88		20.0 2.64	
	1582	7740	5952		5744		5512		5282		5058		4842		4589		4265		3769		3111	
			24.0	2.87	24.0 2.95		23.0 3.02		23.0 3.07		23.0 3.13		22.0 3.20		22.0 3.23		21.0 3.19		21.0 3.12		21.0 2.93	

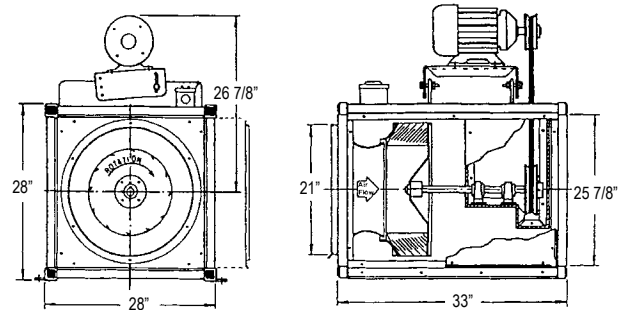
Performance shown is for installation type A - Free inlet, Free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The AMCA Certified Ratings Seal applies to air capacities only.

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› SX205BC Fan Curves



› SX205BC Dimensional Data



Galv. Side Panel = 20 gauge	Alum. Corner Post = 0.064 in	Peak BHP = (RPM/953) ³
Alum. Side Panel = 0.051 in	Damper Size = 28 in (sq)	Max. RPM = 1455 (3 HP)
Galv. Corner Post = 16 gauge	Max. Mtr. Frame Size = 213T	Est. Ship. Wts. (galv/alum) = 152/104 lbs

› SX205BC 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	550	2916	2062	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			4.9	0.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	634	3361	2702	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/3			6.3	0.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	660	3499	2875	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			6.8	0.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/2	687	3642	3049	-	1925	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			7.4	0.37	7.0	0.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	720	3817	3259	-	2345	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4			8.2	0.42	7.6	0.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	755	4003	3478	-	2710	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			9.2	0.48	8.3	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	787	4172	3676	-	2995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			10.2	0.54	9.0	0.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	825	4374	3809	-	3306	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2			11.5	0.61	9.7	0.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	865	4586	4147	-	3603	-	2682	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			12.4	0.70	10.3	0.75	10.2	0.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	901	4777	4358	-	3851	-	3074	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			13.3	0.79	10.9	0.84	10.9	0.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	925	4904	4498	-	4012	-	3322	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3			14.0	0.85	11.5	0.90	11.3	0.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	950	5036	4642	-	4174	-	3549	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			14.8	0.91	12.2	0.97	11.9	0.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	976	5174	4792	-	4341	-	3772	-	2800	-	-	-	-	-	-	-	-	-	-	-	-	-
			15.5	0.99	13.0	1.05	12.4	1.07	12.1	1.01	-	-	-	-	-	-	-	-	-	-	-	-
	1010	5354	4988	-	4557	-	4046	-	3225	-	-	-	-	-	-	-	-	-	-	-	-	-
5			16.5	1.09	14.1	1.15	13.1	1.19	12.9	1.16	-	-	-	-	-	-	-	-	-	-	-	-
	1045	5540	5188	-	4777	-	4310	-	3598	-	-	-	-	-	-	-	-	-	-	-	-	-
			17.3	1.20	15.0	1.27	13.6	1.32	13.6	1.31	-	-	-	-	-	-	-	-	-	-	-	-
6	4080	5726	5387	-	4995	-	4557	-	3947	-	2916	-	-	-	-	-	-	-	-	-	-	-
			18.0	1.32	15.9	1.39	14.2	1.45	14.3	1.45	13.9	1.32	-	-	-	-	-	-	-	-	-	-
	1118	5927	5602	-	5229	-	4815	-	4279	-	3478	-	-	-	-	-	-	-	-	-	-	-
7			18.8	1.46	16.9	1.54	14.9	1.60	15.0	1.61	14.8	1.57	-	-	-	-	-	-	-	-	-	-
	1150	6027	5783	-	5425	-	5025	-	4543	-	3830	-	-	-	-	-	-	-	-	-	-	-
			19.6	1.59	17.8	1.66	15.7	1.73	15.6	1.76	15.4	1.74	-	-	-	-	-	-	-	-	-	-
8	1180	6256	5951	-	5608	-	5218	-	4780	-	4143	-	3121	-	-	-	-	-	-	-	-	-
			20.0	1.71	18.6	1.79	16.6	1.86	16.2	1.90	16.1	1.89	15.8	1.71	-	-	-	-	-	-	-	-
	1205	6388	6092	-	5758	-	5378	-	4965	-	4391	-	3121	-	-	-	-	-	-	-	-	-
9			21.0	1.82	19.5	1.90	17.4	1.97	16.7	2.02	16.7	2.02	16.4	1.92	-	-	-	-	-	-	-	-
	1230	6521	6231	-	5905	-	5537	-	5144	-	4613	-	3873	-	-	-	-	-	-	-	-	-
			22.0	1.93	20.0	2.01	18.2	2.09	17.2	2.14	17.3	2.15	17.0	2.09	-	-	-	-	-	-	-	-
10	1265	6706	6427	-	6110	-	5757	-	5384	-	4912	-	4251	-	-	-	-	-	-	-	-	-
			23.0	2.09	22.0	2.18	19.6	2.26	18.1	2.32	18.1	2.34	17.9	2.32	-	-	-	-	-	-	-	-
	1300	6892	6622	-	6313	-	5976	-	5620	-	5192	-	4615	-	3831	-	-	-	-	-	-	-
11			24.0	2.26	23.0	2.36	21.0	2.44	19.3	2.50	19.0	2.54	18.8	2.53	18.7	2.41	-	-	-	-	-	-
	1340	7104	6844	-	6545	-	6224	-	5880	-	5499	-	4989	-	4310	-	-	-	-	-	-	-
			25.0	2.47	24.0	2.57	23.0	2.65	21.0	2.73	20.0	2.78	19.9	2.78	19.8	2.72	-	-	-	-	-	-
12	1380	7316	7065	-	6776	-	6471	-	6138	-	5786	-	5333	-	4734	-	3957	-	-	-	-	-
			26.0	2.69	26.0	2.79	24.0	2.88	23.0	2.97	22.0	3.02	21.0	3.04	21.0	3.02	21.0	2.85	-	-	-	-
	1408	7464	7220	-	6937	-	6642	-	6316	-	5977	-	5560	-	5024	-	4324	-	-	-	-	-
13			27.0	2.86	27.0	2.96	26.0	3.05	24.0	3.14	23.0	3.20	22.0	3.23	22.0	3.21	22.0	3.11	-	-	-	-

Performance shown is for installation type A - Free inlet, Free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The AMCA Certified Ratings Seal applies to air capacities only.

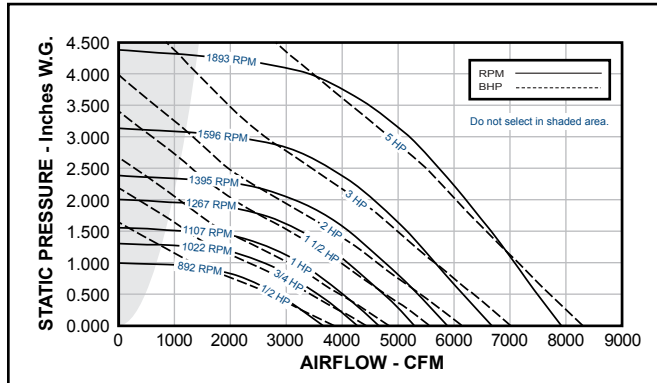
Dimensional Information & Performance Data

Centrex Inliner | Belt Drive

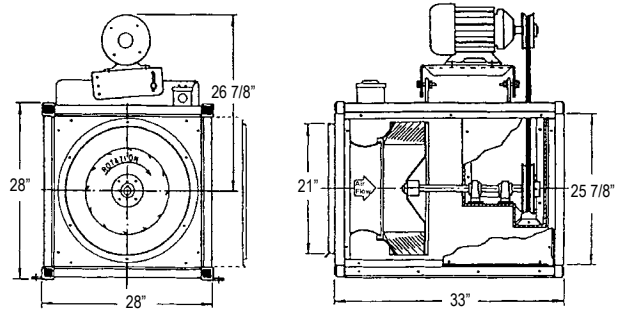


SX205BHC

> SX205BHC Fan Curves



> SX205BHC Dimensional Data



Galv. Side Panel = 20 gauge	Alum. Corner Post = 0.064 in	Peak BHP = (RPM/1083) ³
Alum. Side Panel = 0.051 in	Damper Size = 28 in (sq)	Max. RPM = 2180 (3 HP)
Galv. Corner Post = 16 gauge	Max. Mtr. Frame Size = 213T	Est. Ship. Wts. (galv/alum) = 152/104 lbs

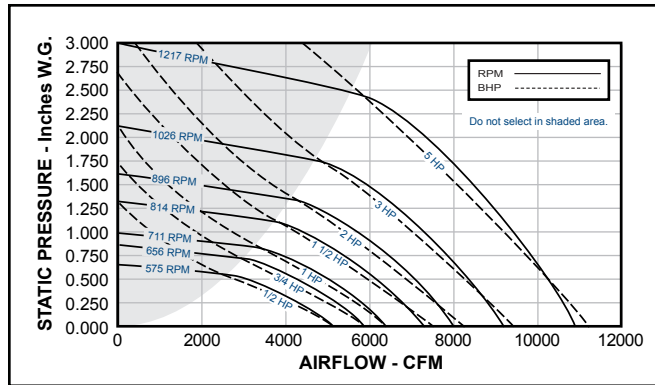
> SX205BHC Performance Data

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
1/2	800	4241	987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	892	4729	2204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	892	4729	9.4	0.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4	975	5169	2793	-	2050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1022	5418	10.7	0.73	10.9	0.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1022	5418	3081	-	2483	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	1075	5699	11.3	0.84	11.5	0.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1107	5869	3373	-	2886	-	2127	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1107	5869	12.2	0.97	12.3	0.99	12.6	0.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	1175	6229	3546	-	3106	-	2463	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1225	6494	12.8	1.05	12.9	1.07	13.1	1.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1267	6717	3909	-	3529	-	3024	-	2300	-	-	-	-	-	-	-	-	-	-	-	-	-
2	1300	6892	14.0	1.25	14.1	1.28	14.2	1.29	14.5	1.22	-	-	-	-	-	-	-	-	-	-	-	-
	1340	7104	4170	-	3806	-	3393	-	2810	-	1660	-	-	-	-	-	-	-	-	-	-	-
	1375	7289	14.9	1.41	15.0	1.43	15.1	1.46	15.3	1.44	15.7	1.18	-	-	-	-	-	-	-	-	-	-
3	1395	7396	4383	-	4034	-	3658	-	3159	-	2458	-	-	-	-	-	-	-	-	-	-	-
	1440	7634	15.8	1.55	15.8	1.57	15.9	1.61	16.0	1.61	16.2	1.52	-	-	-	-	-	-	-	-	-	-
	1480	7846	4546	-	4212	-	3862	-	3410	-	2822	-	1284	-	-	-	-	-	-	-	-	-
4	1525	8085	16.3	1.66	16.4	1.69	16.5	1.73	16.6	1.74	16.8	1.70	17.4	1.20	-	-	-	-	-	-	-	-
	1550	8217	4741	-	4425	-	4092	-	3704	-	3187	-	2445	-	-	-	-	-	-	-	-	-
	1575	8350	17.1	1.80	17.2	1.85	17.2	1.89	17.3	1.91	17.5	1.91	17.7	1.76	-	-	-	-	-	-	-	-
5	1596	8461	4911	-	4609	-	4284	-	3926	-	3462	-	2857	-	1164	-	-	-	-	-	-	-
	1650	8747	17.8	1.94	17.9	2.00	18.0	2.03	18.0	2.06	18.2	2.06	18.3	1.99	19.0	1.32	-	-	-	-	-	-
	1700	9012	5008	-	4714	-	4394	-	4051	-	3614	-	3068	-	2079	-	-	-	-	-	-	-
6	1750	9278	18.2	2.02	18.3	2.08	18.4	2.11	18.4	2.15	18.6	2.15	18.7	2.11	19.1	1.83	-	-	-	-	-	-
	1800	9543	5224	-	4947	-	4637	-	4327	-	3952	-	3471	-	2828	-	-	-	-	-	-	-
	1840	9755	18.8	2.20	18.9	2.28	19.0	2.30	19.0	2.35	19.2	2.37	19.3	2.37	19.6	2.25	-	-	-	-	-	-
7	1875	9940	5417	-	5145	-	4851	-	4549	-	4208	-	3778	-	3258	-	2401	-	-	-	-	-
	1893	10036	19.4	2.37	19.5	2.46	19.6	2.50	19.6	2.54	19.8	2.57	19.9	2.57	20.0	2.52	20.0	2.27	-	-	-	-
			5632	-	5366	-	5089	-	4796	-	4489	-	4117	-	3663	-	3060	-	-	-	-	-
8			20.0	2.58	20.0	2.67	20.0	2.72	20.0	2.76	20.0	2.80	21.0	2.81	21.0	2.81	21.0	2.69	-	-	-	-
			5752	-	5488	-	5220	-	4931	-	4643	-	4294	-	3856	-	3332	-	-	-	-	-
			21.0	2.70	21.0	2.79	21.0	2.86	21.0	2.88	21.0	2.94	21.0	2.95	21.0	2.96	21.0	2.88	-	-	-	-
9			5870	-	5609	-	5350	-	5066	-	4783	-	4453	-	4047	-	3570	-	-	-	-	-
			21.0	2.82	21.0	2.92	21.0	2.99	21.0	3.01	21.0	3.07	21.0	3.09	22.0	3.10	22.0	3.06	-	-	-	-
			5970	-	5711	-	5459	-	5179	-	4900	-	4585	-	4206	-	3759	-	1769	-	-	-
10			21.0	2.93	21.0	3.02	21.0	3.11	22.0	3.13	22.0	3.18	22.0	3.22	22.0	3.23	22.0	3.21	23.0	2.35	-	-
			6224	-	5971	-	5729	-	5466	-	5195	-	4920	-	4593	-	4188	-	3106	-	-	-
			22.0	3.21	22.0	3.32	22.0	3.41	22.0	3.45	22.0	3.49	22.0	3.54	23.0	3.56	23.0	3.56	23.0	3.33	-	-
11			6458	-	6212	-	5975	-	5729	-	5466	-	5204	-	4908	-	4566	-	3673	-	-	-
			23.0	3.49	23.0	3.60	23.0	3.70	23.0	3.77	23.0	3.79	23.0	3.85	23.0	3.88	23.0	3.90	24.0	3.80	-	-
			6689	-	6452	-	6219	-	5989	-	5733	-	5478	-	5218	-	4910	-	4132	-	2819	-
12			23.0	3.79	23.0	3.90	24.0	4.01	24.0	4.10	24.0	4.13	24.0	4.17	24.0	4.23	24.0	4.25	24.0	4.24	25.0	3.74
			6915	-	6690	-	6461	-	6239	-	5998	-	5750	-	5502	-	5224	-	4531	-	3572	-
			25.0	4.10	25.0	4.22	25.0	4.33	25.0	4.43	25.0	4.48	25.0	4.51	25.0	4.57	25.0	4.61	25.0	4.63	26.0	4.40
13			7096	-	6880	-	6653	-	6436	-	6208	-	5965	-	5722	-	5472	-	4835	-	4008	-
			26.0	4.36	26.0	4.49	26.0	4.60	26.0	4.71	26.0	4.78	26.0	4.80	26.0	4.86	26.0	4.91	26.0	4.94	26.0	4.84
			7254	-	7045	-	6821	-	6608	-	6390	-	6151	-	5913	-	5676	-	5097	-	4327	-
14			27.0	4.59	27.0	4.73	27.0	4.85	27.0	4.96	27.0	5.05	27.0	5.07	27.0	5.12	27.0	5.18	27.0	5.23	27.0	5.18
			7334	-	7130	-	6908	-	6695	-	6483	-	6247	-	6011	-	5776	-	5226	-	4488	-
			29.0	4.72	29.0	4.86	29.0	4.98	29.0	5.09	29.0	5.19	29.0	5.22	29.0	5.25	29.0	5.32	29.0	5.38	29.0	5.37

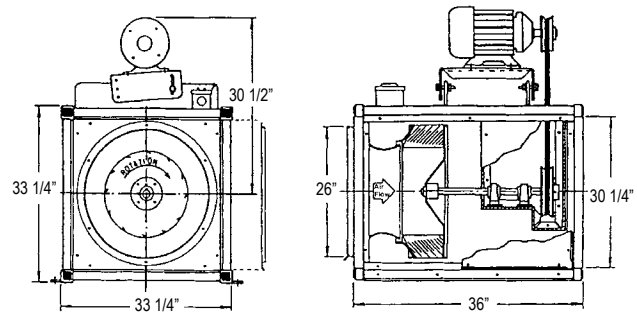
Performance shown is for installation type A - Free inlet, Free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The AMCA Certified Ratings Seal applies to air capacities only.

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› SX225BC Fan Curves



› SX225BC Dimensional Data



Galv. Side Panel = 20 gauge	Alum. Corner Post = NA	Peak BHP = (RPM/704) ³
Alum. Side Panel = NA	Damper Size = 33 1/4 in (sq)	Max. RPM = 1257 (3 HP)
Galv. Corner Post = 14 gauge	Max. Mtr. Frame Size = 213T	Est. Ship. Wt. = 245 lbs

› SX225BC 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
1/2	525	3410	3831	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	573	3722	4382	0.43	3145	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4	615	3995	4839	0.55	3802	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	656	4261	5266	0.67	4343	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	670	4352	5407	0.81	4518	0.69	3182	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	690	4482	5608	0.86	4773	0.90	3628	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	711	4618	5817	0.93	5037	0.98	4012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	735	4774	6055	1.02	5328	1.07	4392	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	760	4937	6302	1.12	5623	1.18	4752	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	785	5099	6548	1.23	5910	1.29	5086	1.31	3949	-	-	-	-	-	-	-	-	-	-	-	-	-
3	814	5288	6830	1.35	6239	1.42	5451	1.44	4512	-	-	-	-	-	-	-	-	-	-	-	-	-
	830	5391	6983	1.50	6419	1.58	5654	1.61	4784	-	-	-	-	-	-	-	-	-	-	-	-	-
4	850	5521	7174	1.59	6635	1.67	5908	1.70	5091	-	-	-	-	-	-	-	-	-	-	-	-	-
	875	5684	7412	1.70	6900	1.78	6220	1.83	5451	1.82	4357	-	-	-	-	-	-	-	-	-	-	-
5	896	5820	7611	1.84	7121	1.94	6475	1.99	5734	2.00	4789	-	-	-	-	-	-	-	-	-	-	-
	920	5976	7838	1.97	7369	2.07	6762	2.13	6044	2.15	5217	-	-	-	-	-	-	-	-	-	-	-
6	945	6183	8074	2.13	7621	2.23	7051	2.30	6358	2.32	5611	2.29	4433	-	-	-	-	-	-	-	-	-
	970	6301	8310	2.30	7872	2.41	7336	2.48	6677	2.51	5979	2.50	5012	17.3	2.33	-	-	-	-	-	-	-
7	995	6463	8544	2.48	8122	2.60	7620	2.68	6992	2.72	6321	2.72	5492	17.4	2.50	17.3	2.33	-	-	-	-	-
	1026	6665	8835	2.67	8431	2.79	7966	2.88	7373	2.93	6725	2.94	6005	18.0	2.88	18.8	2.88	-	-	-	-	-
8	1060	6886	9153	2.92	8767	2.92	8327	3.15	7782	3.20	7152	3.22	6513	22.0	3.02	19.5	3.02	-	-	-	-	-
	1090	7080	9433	3.21	9062	3.35	8644	3.45	8128	3.52	7535	3.55	6925	22.0	3.35	20.0	3.45	-	-	-	-	-
9	1120	7275	9712	3.48	9356	3.63	8957	3.74	8471	3.81	7912	3.85	7317	23.0	3.81	21.0	3.81	5085	-	-	-	-
	1160	7535	10084	3.77	9743	3.92	9361	4.04	8923	4.12	8399	4.17	7820	23.0	4.17	22.0	4.17	5786	-	-	-	-
10	1190	7730	10362	4.18	10030	4.33	9662	4.46	9254	4.56	8757	4.62	8203	25.0	4.62	23.0	4.62	6197	5085	-	-	-
	1217	7905	10612	4.50	10287	4.66	9932	4.79	9541	4.90	9068	4.97	8543	26.0	4.97	24.0	4.97	6667	5786	5500	-	-
11			10612	4.81	10287	4.97	9932	5.11	9541	5.23	9068	5.30	8543	27.0	5.30	25.0	5.30	7015	6179	6179	-	-
			10612	4.81	10287	4.97	9932	5.11	9541	5.23	9068	5.30	8543	27.0	5.30	25.0	5.30	7422	6698	6698	5631	-

Performance shown is for installation type A - Free inlet, Free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The AMCA Certified Ratings Seal applies to air capacities only.

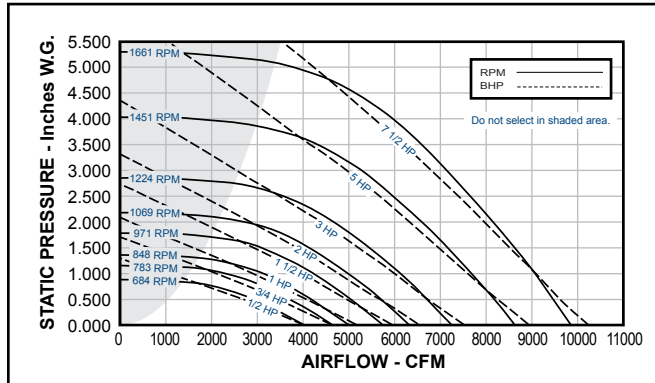
Dimensional Information & Performance Data

Centrex Inliner | Belt Drive

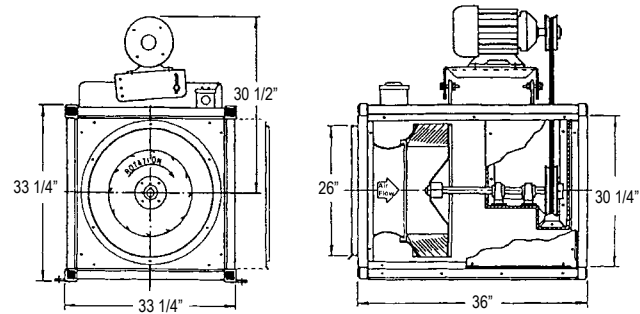


SX225BHC

SX225BHC Fan Curves



SX225BHC Dimensional Data



Galv. Side Panel = 20 gauge	Alum. Corner Post = NA	Peak BHP = (RPM/828) ³
Alum. Side Panel = NA	Damper Size = 33 1/4 (sq)	Max. RPM = 1715 (7 1/2 HP)
Galv. Corner Post = 14 gauge	Max. Mtr. Frame Size = 213T	Est. Ship. Wt. = 245 lbs

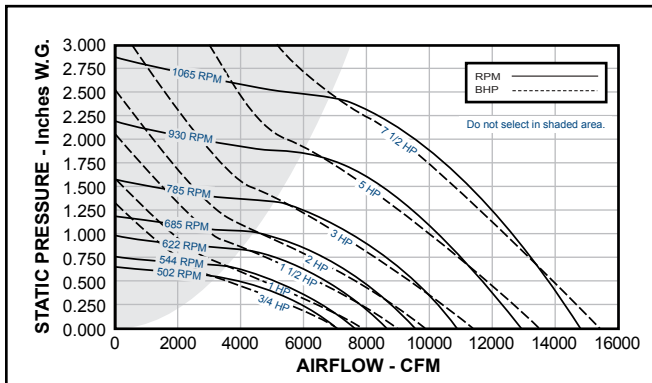
SX225BHC Performance Data

HP	RPM	Tip Speed FPM	0.750" SP		1.000" SP		1.250" SP		1.500"		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1	684	4443	2184	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			9.0	0.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4	725	4709	2626	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			9.7	0.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	783	5086	3168	2429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			10.6	0.84	10.8	0.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	810	5262	3401	2742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			11.1	0.93	11.3	0.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	848	5508	3716	3139	2286	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			11.9	1.07	12.0	1.07	12.2	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	875	5684	3934	3391	2709	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			12.5	1.18	12.6	1.18	12.8	1.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	925	6009	4318	3840	3274	2436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			13.7	1.38	13.6	1.39	13.8	1.39	14.1	1.29	-	-	-	-	-	-	-	-	-	-	-	-
971	6307	4665	4224	3724	3130	1919	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		14.6	1.58	14.6	1.61	14.7	1.61	14.9	1.58	15.3	1.32	-	-	-	-	-	-	-	-	-	-	-
2	1000	6496	4874	4461	3992	3444	2647	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			15.2	1.72	15.2	1.76	15.3	1.76	15.5	1.74	15.8	1.63	-	-	-	-	-	-	-	-	-	-
	1035	6723	5123	4733	4300	3811	3201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			15.9	1.90	16.0	1.94	16.0	1.95	16.2	1.95	16.5	1.89	-	-	-	-	-	-	-	-	-	-
1069	6944	5362	4993	4585	4129	3601	2829	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		16.8	2.09	16.8	2.13	16.9	2.15	17.0	2.15	17.2	2.12	17.5	2.00	-	-	-	-	-	-	-	-	-
3	1110	7210	5648	5303	4923	4505	4039	3472	2485	-	-	-	-	-	-	-	-	-	-	-	-	-
			17.7	2.33	17.8	2.37	17.9	2.41	18.0	2.40	18.1	2.41	18.3	2.34	18.7	2.07	-	-	-	-	-	-
	1150	7470	5924	5595	5236	4847	4417	3927	3280	-	-	-	-	-	-	-	-	-	-	-	-	
			18.5	2.58	18.6	2.62	18.7	2.67	18.8	2.68	18.9	2.68	19.1	2.65	19.4	2.55	-	-	-	-	-	-
	1190	7730	6199	5879	5543	5180	4785	4352	3842	3057	-	-	-	-	-	-	-	-	-	-	-	-
			19.4	2.84	19.5	2.89	19.5	2.94	19.6	2.97	19.8	2.96	19.9	2.97	20.0	2.90	20.0	2.72	-	-	-	-
1224	7951	6430	6119	5801	5458	5083	4672	4211	3641	-	-	-	-	-	-	-	-	-	-	-	-	
		20.0	3.08	20.0	3.14	20.0	3.18	20.0	3.23	20.0	3.22	21.0	3.23	21.0	3.19	21.0	3.11	-	-	-	-	-
5	1275	8282	6775	6475	6178	5854	5509	5141	4737	4274	2676	-	-	-	-	-	-	-	-	-	-	
			21.0	3.45	21.0	3.54	21.0	3.57	21.0	3.62	22.0	3.65	22.0	3.64	22.0	3.65	22.0	3.60	23.0	3.06	-	-
	1325	8607	7110	6821	6535	6235	5919	5573	5203	4809	3738	-	-	-	-	-	-	-	-	-	-	
			22.0	3.85	22.0	3.95	23.0	3.99	23.0	4.04	23.0	4.10	23.0	4.09	23.0	4.09	23.0	4.09	24.0	3.88	-	-
	1375	8932	7442	7164	6887	6611	6306	5989	5654	5284	4446	2794	-	-	-	-	-	-	-	-	-	
			24.0	4.28	24.0	4.38	24.0	4.45	24.0	4.49	24.0	4.55	24.0	4.58	24.0	4.57	24.0	4.57	25.0	4.48	25.0	3.79
	1425	9256	7761	7504	7236	6970	6688	6394	6075	5744	4987	3930	-	-	-	-	-	-	-	-	-	
			25.0	4.73	25.0	4.85	25.0	4.94	25.0	4.98	25.0	5.03	25.0	5.09	25.0	5.09	25.0	5.09	26.0	5.06	26.0	4.79
1451	9425	7927	7680	7416	7155	6884	6595	6291	5974	5263	4347	-	-	-	-	-	-	-	-	-	-	
		26.0	4.98	26.0	5.10	26.0	5.21	26.0	5.25	26.0	5.29	26.0	5.36	26.0	5.38	26.0	5.37	26.0	5.37	27.0	5.19	
7 1/2	1500	9744	8237	8010	7754	7501	7248	6972	6692	6386	5730	4964	-	-	-	-	-	-	-	-	-	
			26.0	5.47	27.0	5.61	27.0	5.72	27.0	5.78	27.0	5.82	27.0	5.88	27.0	5.95	27.0	5.94	28.0	5.94	28.0	5.84
	1550	10068	8553	8344	8097	7850	7606	7351	7080	6800	6191	5502	-	-	-	-	-	-	-	-	-	
			27.0	6.01	28.0	6.15	28.0	6.27	28.0	6.36	28.0	6.40	28.0	6.45	28.0	6.52	29.0	6.56	29.0	6.55	29.0	6.52
	1585	10296	8773	8576	8335	8093	7854	7613	7349	7085	6506	5859	-	-	-	-	-	-	-	-	-	
			29.0	6.40	29.0	6.56	29.0	6.68	29.0	6.79	29.0	6.83	29.0	6.88	29.0	6.94	29.0	7.01	30.0	7.00	30.0	7.01
	1610	10458	8930	8736	8504	8266	8030	7795	7539	7279	6718	6094	-	-	-	-	-	-	-	-	-	-
			29.0	6.69	30.0	6.85	30.0	6.98	30.0	7.10	30.0	7.15	30.0	7.19	30.0	7.26	30.0	7.33	30.0	7.34	30.0	7.34
1635	10621	9087	8895	8673	8438	8206	7974	7728	7472	6927	6327	-	-	-	-	-	-	-	-	-	-	
		30.0	6.99	30.0	7.16	30.0	7.29	30.0	7.41	30.0	7.48	30.0	7.52	31.0	7.58	31.0	7.65	31.0	7.69	31.0	7.69	
1661	10789	9249	9061	8848	8617	8387	8159	7924	7672	7144	6567	-	-	-	-	-	-	-	-	-	-	
		31.0	7.32	31.0	7.48	31.0	7.62	31.0	7.74	31.0	7.83	31.0	7.88	31.0	7.93	31.0	8.00	31.0	8.07	32.0	8.06	

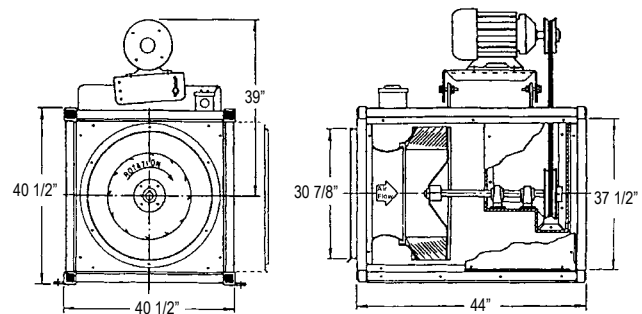
Performance shown is for installation type A - Free inlet, Free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The AMCA Certified Ratings Seal applies to air capacities only.

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› SX275BC Fan Curves



› SX275BC Dimensional Data



Galv. Side Panel = 20 gauge	Alum. Corner Post = NA	Peak BHP = (RPM/531) ³
Alum. Side Panel = NA	Damper Size = 40 1/2 in (sq)	Max. RPM = 1113 (7 1/2 HP)
Galv. Corner Post = 14 gauge	Max. Mtr. Frame Size = 215T	Est. Ship. Wt. = 415 lbs

› SX275BC 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
3/4	400	3207	4486	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	502	4025	6366	4943	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			11.2	0.82	8.5	0.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	520	4169	6678	5370	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	544	4362	7090	5897	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			11.9	1.02	9.5	1.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	570	4570	7523	6430	4759	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	595	4770	7928	6917	5530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	622	4987	8363	7424	6228	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	635	5091	8571	7666	6535	4583	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	650	5211	8810	7938	6870	5209	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	665	5332	9049	8207	7196	5722	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	710	5693	9760	9004	8112	6992	5126	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	735	5893	10153	9437	8591	7586	6115	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	760	6093	10544	9867	9060	8141	6907	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	815	6534	11398	10784	10061	9271	8329	7025	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	840	6735	11784	11189	10507	9755	8888	7780	6061	-	-	-	-	-	-	-	-	-	-	-	-	-
	870	6975	12247	11672	11035	10320	9532	8575	7247	-	-	-	-	-	-	-	-	-	-	-	-	-
7 1/2	900	7216	12708	12153	11555	10878	10143	9286	8195	6577	-	-	-	-	-	-	-	-	-	-	-	-
	930	7456	13168	12631	12071	11419	10733	9953	9014	7745	-	-	-	-	-	-	-	-	-	-	-	-
	950	7617	13473	12949	12413	11777	11112	10379	9511	8395	6753	-	-	-	-	-	-	-	-	-	-	-
10	970	7777	13779	13265	12749	12133	11488	10790	9983	8985	7623	-	-	-	-	-	-	-	-	-	-	-
	995	7978	14160	13660	13156	12574	11954	11292	10541	9657	8503	-	-	-	-	-	-	-	-	-	-	-
	1020	8178	14541	14053	13562	13010	12411	11781	11081	10274	9277	7941	-	-	-	-	-	-	-	-	-	-
12	1045	8378	14921	14445	13966	13442	12861	12254	11599	10852	9975	8837	-	-	-	-	-	-	-	-	-	-
	1065	8539	15224	14758	14287	13787	13218	12630	12003	11298	10489	9474	-	-	-	-	-	-	-	-	-	-
			31.0	6.98	31.0	7.25	30.0	7.48	30.0	7.70	29.0	7.86	28.0	7.94	27.0	7.98	28.0	8.03	28.0	8.05	28.0	7.92

Performance shown is for installation type A - Free inlet, Free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The AMCA Certified Ratings Seal applies to air capacities only.

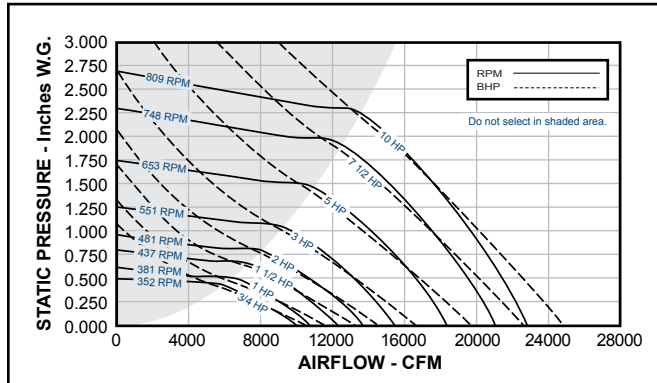
Dimensional Information & Performance Data

Centrex Inliner | Belt Drive

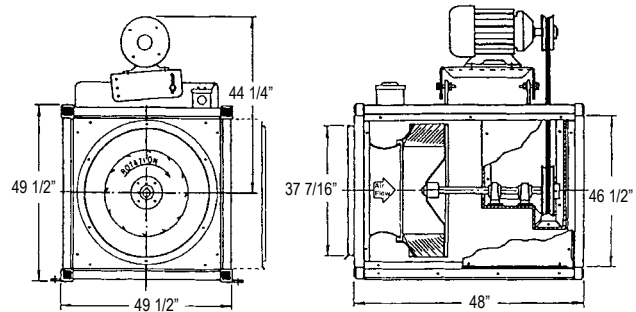


SX335BC

> SX335BC Fan Curves



> SX335BC Dimensional Data



Galv. Side Panel = 20 gauge	Alum. Corner Post = NA	Peak BHP = (RPM/373) ³
Alum. Side Panel = NA	Damper Size = 49 1/2 (sq)	Max. RPM = 810 (10 HP)
Galv. Corner Post = 14 gauge	Max. Mtr. Frame Size = 215T	Est. Ship. Wt. = 525 lbs

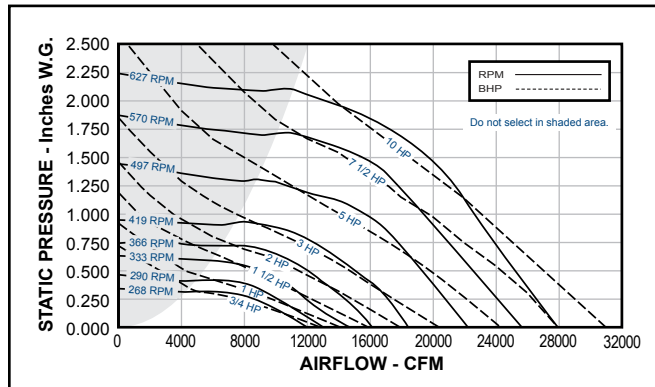
> SX335BC Performance Data

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
3/4	300	2921	5916	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	352	3472	7923	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	381	3709	8936	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	370	3602	8559	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	381	3709	8936	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	410	3992	9905	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	437	4254	10782	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	460	4478	11514	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	481	4683	12175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	490	4770	12455	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	510	4965	13073	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	535	5209	13839	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	551	5364	14327	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	575	5598	15055	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	600	5841	15802	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	625	6085	16535	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	653	6357	17353	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	670	6523	17848	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7 1/2	690	6718	18429	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	710	6912	19008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	730	7107	19586	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	748	7282	20106	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	760	7399	20452	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	775	7545	20884	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	790	7691	21315	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	800	7788	21602	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	809	7876	21861	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

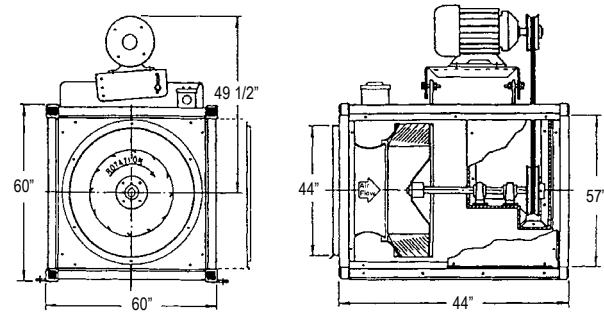
Performance shown is for installation type A - Free inlet, Free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The AMCA Certified Ratings Seal applies to air capacities only.

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› SX420BC Fan Curves



› SX420BC Dimensional Data



Galv. Side Panel = 14 gauge	Alum. Corner Post = NA	Peak BHP = (RPM/284) ³
Alum. Side Panel = NA	Damper Size = 61 1/2 in (sq)	Max. RPM = 694 (10 HP)
Galv. Corner Post = 14 gauge	Max. Mtr. Frame Size = 215T	Est. Ship. Wt. = 725 lbs

› SX420BC Performance Data

HP	RPM	Tip Speed FPM	0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.250" SP		1.000" 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
3/4	240	2757	9156	-	7098	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	268	3078	10639	4.6 0.53	8921	4.1 0.60	5642	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	290	3331	11762	5.8 0.71	10212	5.2 0.80	8349	5.0 0.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	310	3561	12735	6.2 0.88	11346	6.2 0.98	9823	6.7 1.20	6603	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	333	3825	13844	8.1 1.05	12603	7.4 1.17	11209	7.7 1.53	9477	-	-	-	-	-	-	-	-	-	-	-	-	-
	345	3963	14418	8.9 1.28	13249	8.2 1.41	11916	7.4 1.60	10437	-	-	-	-	-	-	-	-	-	-	-	-	-
2	355	4078	14894	9.4 1.41	13782	8.8 1.55	12497	8.2 1.93	11139	-	-	-	-	-	-	-	-	-	-	-	-	-
	366	4204	15417	9.8 1.53	14363	9.4 1.67	13129	8.8 2.09	11833	-	-	-	-	-	-	-	-	-	-	-	-	-
3	380	4356	16079	10.4 1.66	15097	10.0 1.82	13914	9.6 2.29	12675	8142	-	-	-	-	-	-	-	-	-	-	-	-
	395	4537	16786	11.1 1.85	15877	11.0 2.01	14738	9.8 2.29	13562	10282	-	-	-	-	-	-	-	-	-	-	-	-
4	410	4709	17490	12.1 2.06	16628	12.0 2.24	15553	10.9 2.53	14435	11797	-	-	-	-	-	-	-	-	-	-	-	-
	419	4813	17911	12.9 2.29	17068	13.1 2.48	16037	12.2 2.78	14953	12532	-	-	-	-	-	-	-	-	-	-	-	-
5	440	5054	18891	13.4 2.44	18088	13.7 2.63	17156	13.2 2.94	16134	13990	9601	-	-	-	-	-	-	-	-	-	-	-
	460	5284	19822	14.9 2.80	19053	15.4 3.00	18208	15.4 3.34	17231	15201	12332	-	-	-	-	-	-	-	-	-	-	-
6	480	5513	20749	16.2 3.18	20012	16.8 3.39	19250	17.0 3.75	18313	16388	14197	-	-	-	-	-	-	-	-	-	-	-
	497	5709	21535	17.8 3.59	20824	18.0 3.81	20113	18.0 4.20	19222	17381	15401	11530	-	-	-	-	-	-	-	-	-	-
7 1/2	515	5916	22366	19.3 3.97	21679	19.1 4.20	20993	19.0 4.61	20176	18418	16577	13870	-	-	-	-	-	-	-	-	-	-
	530	6088	23056	20.0 4.40	22389	20.0 4.64	21723	20.0 5.07	20964	19268	17483	15291	10104	-	-	-	-	-	-	-	-	-
8	545	6260	23746	21.0 4.78	23098	21.0 5.03	22449	21.0 5.49	21747	20097	18377	16468	12713	-	-	-	-	-	-	-	-	-
	560	6432	24435	22.0 5.19	23804	22.0 5.44	23173	22.0 5.92	22525	20919	19261	17522	14705	-	-	-	-	-	-	-	-	-
9	585	6720	25581	24.0 5.61	24977	23.0 5.87	24373	23.0 6.37	23768	22274	20712	19092	17137	13182	-	-	-	-	-	-	-	-
	595	6834	26039	26.0 6.37	25445	26.0 6.64	24851	25.0 7.18	24257	22811	21286	19693	17896	14648	-	-	-	-	-	-	-	-
10	605	6949	26496	28.0 6.70	25912	27.0 6.97	25328	26.0 7.51	24743	23345	21856	20289	18603	15898	-	-	-	-	-	-	-	-
	615	7064	26953	28.0 7.03	26379	28.0 7.31	25804	27.0 7.86	25229	23878	22415	20882	19303	17023	12341	-	-	-	-	-	-	-
11	627	7202	27502	29.0 7.38	26938	28.0 7.66	26374	28.0 8.22	25810	24513	23079	21587	20075	18083	14343	-	-	-	-	-	-	-
			30.0 7.80	29.0 8.09	29.0 8.38	29.0 8.66	28.0 9.17	28.0 9.63	26.0 10.09	23.0 10.54	22.0 10.71	22.0 10.08										

Performance shown is for installation type A - Free inlet, Free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The AMCA Certified Ratings Seal applies to air capacities only.

Configuration

Centrifugal Inline Fans

Centrex Inliner

› Model

SX = Centrifugal Fan

› Unit Size

085	100	120	155	205	275	420
095	115	125	165	225	335	

› Drive Type

D = Direct Drive
B = Belt Drive

› Motor Tap

QC = 1550 RPM
RC = 1300 RPM
SC = 1050 RPM
VC = 1650 RPM
Q1C = 1725 RPM
Q2C = 1725 RPM

› Motor Speed

1 = Single Speed
2 = 2S2W 1800/1200
3 = 2S1W 1800/900

› 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

0 = 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

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.*

› 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

› Damper

0 = None
BDD = Gravity Backdraft Damper
X = Special

› Aluminum Housing

0 = None
A = Aluminum Housing

› Motor Cover

0 = None
M = Motor

› Inlet Angle Ring

0 = None
R = Ring

› Inlet Guard

0 = None
G = Guard

› Support Channel

0 = None
S = Support Channel

› Extended Lube Lines

0 = None
L = Extended Lube Lines

› Sound Insulation

0 = None
G = Gasket

› Vibration Isolation

0 = None
RF = Rub in Shear Floor
RH = Rub in Shear Hanger
SC = Supp. Chann w/ Rubber Floor
SF = Spring Floor
SH = Spring Hanger

› Thermal Overload Protection

0 = None
P = Thermal Overload Protection

› Disconnect Switch

0 = None
1 = Nema 1
3R = Nema 3R
4 = Nema 4
7 = Nema 7
9 = Nema 9

› Internal Wiring

0 = None
1 = Nema 1
3R = Nema 3R

› Transformer

0 = None
T = Transformer

› Speed Controller

0 = None
L = Loose
M = Mounted

› Firestat Switch

0 = None
F = Switch

› High Pressure Wheel

0 = None
H = High Pressure Wheel

› Direct Drive Fans

Direct drive Centrifugal Square Inline fan shall be Centrex Inliner SX, manufactured by PennBarry, Richardson, TX 75081. The housing shall utilize galvanized steel “corner post” framework and panels. Units shall be equipped with three removable access panels. Units shall be pre-wired to a junction box on the exterior and equipped with an electrical disconnect switch (not Explosion Proof). Two support angles shall be provided.

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 (except Totally Enclosed), be easily accessible for service, and furnished at the specified voltage, phase, and enclosure. Each fan shall bear the AMCA Licensed Ratings Seal for Air and Sound Performance, and shall be UL and CSA listed.

› Belt Drive Fans

Belt driven Centrifugal Square Inline fan shall be Centrex Inliner SX, manufactured by PennBarry, Richardson, TX 75081. The housing shall utilize galvanized steel (aluminum optional some sizes) “corner post” framework and panels. Units shall be equipped with three removable access panels. Units shall be pre-wired to a junction box on the exterior and equipped with an electrical disconnect switch (not Explosion Proof). Two support angles shall be provided.

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, 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 Licensed Ratings Seal for Air and Sound Performance, and shall be UL and CSA listed.

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



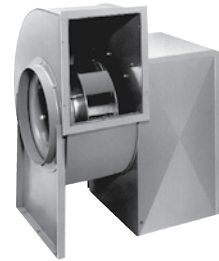
› **Domex**
Centrifugal
Roof Exhausters



› **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

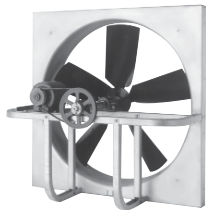


› **ESI**
Efficient Silent
Inline Fan



› **Fume Exhaust**
Curb Mounted
Centrifugal Fans

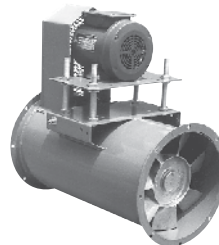
Axial / Gravity Products



› **Breezeway**
Propeller Wall Fan



› **Hi-Ex**
Power Roof Ventilator



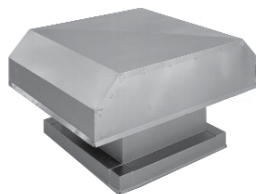
› **Tubeaxial**
Inline Fans



› **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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