Centrifugal Utility Fans

Model SFD, SFB, SWD and SWB

Direct and Belt Drive

Model SWD with VARI-GREEN®

GREENHECK
Building Value in Air.

BUILDING VALUE IN AIR.

November
2017

Models SFD, SFB, SWD and SWB
Utility Fans

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Centrifugal Utility Blowers are suitable for light duty applications **(indoor, outdoor, supply** or **exhaust)** whether commercial or institutional. Available in a variety of **discharge configurations** that all change airflow direction without system losses from duct turns. Models offer different **tiers of construction** to provide the best and most appropriate fan meeting the **application's requirements**.

Greenheck Fan Corporation certifies that the model SFD, SFB, SWD and SWB, fans shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program. The certified ratings for Model SFD, SFB, SWD and SWB are shown on pages 15-48.

High Wind Certification

Miami-Dade Notice of Acceptance (NOA) 16-0209.02 for high wind and hurricane zones

Florida Product Approval Number - FL12680

c UL us LISTED

SFD, SFB, SWD and SWB Series 100 and 200 models are listed for electrical (UL/cUL 705) File no. E40001

SWB Series 200 models are listed for grease removal (UL/cUL 762) File no. MH11745

SWB Series 200 models are listed for Emergency Smoke Control Systems File No. MH17511

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Utility Fans

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Model Comparison

Model	Location		Mounting					Airflow				Application							Drive Type		Impeller Type			Performance		Relative Cost
	Outdoor	Indoor	Roof Curb	Base/Floor	Hanging	Wall	Ceiling Mounted	Exhaust	Supply	Reversible	Recirculate	General/Clean Air	Contaminated Air	Spark Resistant	Grease (UL 762)	Smoke Control (UL)	High Wind (150 mph)	High Temp (above 200°F)	Belt	Direct	Centrifugal	Propeller/Axial	Mixed Flow	Maximum Volume (cfm)	Maximum Static Pressure (in. wg)	
SFD	✓	✓		✓				✓	✓			✓	✓				✓			✓	✓			2,600	2.5	$
SFB	✓	✓		✓				✓	✓			✓	✓				✓		✓		✓			25,250	3.5	$$
SWD	✓	✓		✓				✓	✓			✓	✓	✓						✓	✓			5,500	2.5	$$
SWB	✓	✓		✓				✓	✓			✓	✓	✓	✓	✓	✓	✓	✓		✓			13,700	5	$$

Models SFD and SFB

Greenheck models SFD and SFB forward-curved utility fans have been designed for supply, exhaust and return air applications requiring low to medium air volumes and pressures. You will receive the following benefits with these fans:

- SFD fans are available in four sizes (6, 7.5, 9 and 10) with different rpm motors. Capacities range from 150 to 2,600 cfm *(255 to 4,600 m³/hr)* with static pressures to 2.5 in. wg *(623 Pa)*.
- SFB fans are available in ten sizes (9 through 30) with capacities ranging from 360 to 25,250 cfm *(610 to 42,900 m³/hr)* and static pressures to 3.5 in. wg *(872 Pa)*.
- Greenheck utility fans are designed, engineered and tested prior to shipment to provide years of smooth, vibration-free operation with minimal maintenance.
- The fan may be mounted indoors or outdoors.
- All fan sizes are tested in our AMCA accredited laboratory to ensure complete and accurate performance ratings. All models are licensed to bear the AMCA Air Performance seal. Performance as cataloged is assured.

Model SWD and SWB

Greenheck's backward-inclined utility fans have many advantages; higher operating efficiencies, non-overloading horsepower curves and higher pressure capabilities. You will also receive the following benefits with these fans:

- SWD fans are available in seven sizes (7 through 18) with capacities from 100 to 5,500 cfm *(170 to 9,352 m³/hr)* and static pressures to 2.5 in. wg *(623 Pa)*. Model SWD is offered exclusively with Vari-Green electronically commutated motors for energy efficiency and ease of control.
- SWB Series 100 in ten sizes (106 through 124) with capacities from 70 to 11,000 cfm *(120 to 18,700 m³/hr)* and static pressures to 3.0 in. wg *(747 Pa)*.
- SWB Series 200 in twelve sizes (206 through 224) with capacities from 70 to 13,700 cfm *(120 to 23,300 m³/hr)* and static pressures to 5.0 in. wg *(1,250 Pa)*.
- Greenheck utility fans are designed, engineered and tested prior to shipment to provide years of smooth, vibration-free operation with minimal maintenance.
- Fans may be mounted indoors or outdoors.
- Fans are tested in our AMCA accredited laboratory to ensure complete and accurate performance ratings. All models are licensed to bear the AMCA Air Performance seal. Performance as cataloged is assured.

Standard Construction Features

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	Standard Construction Features		SFD	SFB	SWD	SWB 100	SWB 200
1	Wheel	SFD and SFB fans have forward-curved centrifugal wheels constructed of die formed steel with blades securely riveted to a steel backplate and rim. Each wheel is statically and dynamically balanced to precise tolerances. SWB Series 100 and 200 through size 210 and all sizes of SWD have backward-inclined non-overloading centrifugal wheels constructed of aluminum. Series 200, sizes 212 and larger wheels are constructed of steel or aluminum. Backward-inclined wheels are made of a heavy-gauge material with single-thickness blades securely riveted or welded to a heavy-gauge backplate and wheel cone. Each wheel is statically and dynamically balanced to precise tolerances.	Forward Curved	Forward Curved	Backward Inclined	Backward Inclined	Backward Inclined
2	Finish	All structural steel parts are phosphate treated and coated with Greenheck's Permatector™ for a long lasting finish. Galvanized construction remains unpainted. • See housing and drive frame information for specific material and coating.	—	—	—	—	—
3	Housing	SFD and SWB Series 100 housings are constructed of galvanized steel. SFB and SWB Series 200 housings are constructed of steel and coated with Permatector™ as standard. SWB Series 200 may also be constructed with aluminum housings and housing supports. SWD housings can be galvanized, painted steel, or aluminum. Housings are available in clockwise or counterclockwise rotation and are field rotatable to the eight standard discharge positions. Side panels are bonded to the fan housing with an airtight lock seam. Fully welded housings are also available on SFB, SWD, and SWB Series 200 models.	Galvanized	Painted Steel	Galvanized, Painted Steel, or Aluminum	Galvanized	Painted Steel or Aluminum
4	Housing Supports	Housing supports are constructed of heavy-gauge steel with formed flanges for extra strength.	✓	✓	✓	✓	✓
5	Mounting Holes	Base rails have prepunched mounting holes which allow for easy installation.	✓	✓	✓	✓	✓
6	Drive Frame	SFB and SWB Series 100 and 200 drive frames are constructed of rugged, welded and coated steel members supporting the shaft and bearings to provide rigid reinforcement for the housing. SFB and SWB drive frames are arrangement 10. SFD drive frames are constructed of galvanized steel, bolted and available in arrangement 4. SWD drive frames are constructed of galvanized or painted steel, bolted and available in arrangement 4.	Galvanized	Painted Steel	Galvanized or Painted Steel	Painted Steel	Painted Steel
7	Fasteners	Corrosion-resistant fasteners are used to secure unit base and blower scroll assembly.	✓	✓	✓	✓	✓
8	Motor	Heavy-duty ball bearing motors are carefully matched to the fan load. Open drip proof, totally enclosed, and explosion resistant enclosures are available for SFD, SFB, and SWB fans. Vari-Green motors are included with all SWD fans, and are optional for model SFD. Vari-Green motor enclosures may be open drip proof or totally enclosed.	✓	✓	✓	✓	✓
9	Inlet Cone	Streamlined inlet cone design provides for low turbulence air intake, reducing intake losses and sound levels.	✓	✓	✓	✓	✓

Standard Construction Features

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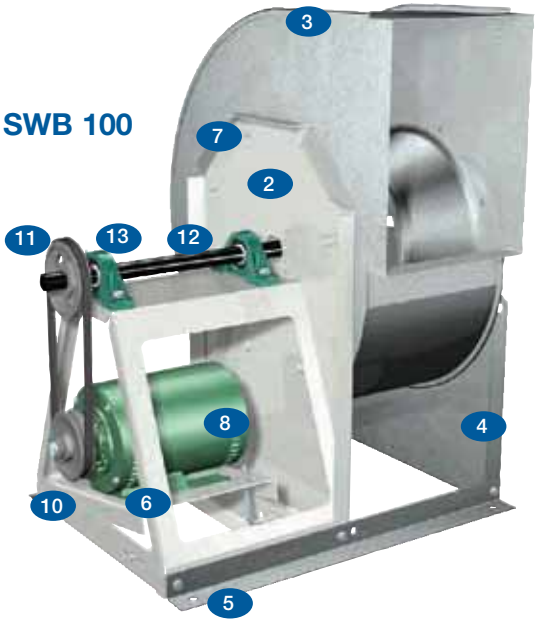
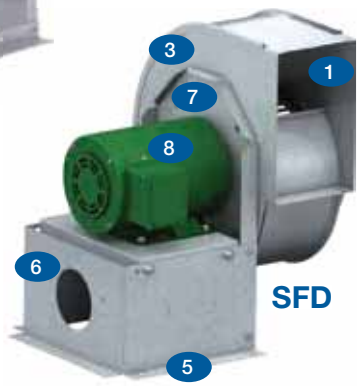
	Belt Drive Only Features		SFB	SWB	
				100	200
10	Motor Plate	Pivoting motor plate with adjusting screws make belt tensioning a quick and easy operation.	✓	✓	✓
11	Drive Assembly	Machined, cast iron pulleys are factory set to the required RPM and are adjustable for final system balancing for applications with 10 hp or less motors. Sized for a minimum of 150% of driven horsepower.	✓	✓	✓
12	Fan Shaft	Precision turned, ground and polished solid steel shafts are sized so the first critical speed is at least 25% over the maximum operating speed. Stainless steel shafts are available on SWB Series 200 fans.	✓	✓	✓
13	Bearings	Heavy-duty, self-aligning pillow block ball bearings are selected for a minimum L_{10} life in excess of 100,000 hours (L_{50} average life of 500,000 hours) at maximum cataloged operating conditions.	✓	✓	✓

SWB 100



SWD



SFD

SFB and SWB 200

High Wind and Hurricane

SFD, SFB and SWB Series 100 and 200

Greenheck is leading the High Wind Standard for rooftop fans and ventilators. Forceful winds and wind-borne debris are the cause of most hurricane damage. Hurricane winds start at 75 mph and can exert a force of 75 pounds per square foot of pressure—or over 900 pounds on a fan and curb. Forceful winds are not the only problem, wind-borne debris can also cause detrimental effects to objects and structures. High winds and extreme forces are the cause of most storm damage. By analyzing calculations, computer simulations, actual testing, and other standards—Greenheck developed the High Wind Standard.

Atlantic, Gulf and Pacific history of major hurricane tracks.

Protocols designed to protect against wind-borne debris and severe wind loads:

Structural Performance Load	A static load that is 2 times the design load (180 pounds per square foot pressure) is applied both positive and negative to simulate wind force loads in each direction. Structural Performance per Dade County Protocol TAS-202 (ASTM E-330).
Large Missile Impact Test	Large Missile Impact Testing is required when objects are located 30 feet or less from the ground. The test is per Dade County Protocol TAS-201. The test unit is impacted three times with a piece of lumber (2 in. x 4 in. x 6 ft.) weighing approximately nine pounds and traveling at 34 mph. This simulates wind-borne debris striking the fan.
Miami-Dade County Test Protocols	Greenheck has gone the extra mile and worked with Miami-Dade County to design a High Velocity Hurricane Zone standard for rooftop fans. The SFD, SFB and SWB Series 100 and 200 models are certified and approved by the Miami-Dade Building Code Compliance office and Texas Department of Insurance for use in hurricane zones.
Miami-Dade NOA Numbers	The certifications can be viewed on the Miami-Dade County website under the NOA numbers listed below. Models SFD, SFB and SWB Series 100 and 200 are the first upblast aluminum/steel fans in the industry that have received a Miami-Dade NOA for high wind (150 mph) and hurricane zones. SFD, SFB and SWB Series 100 and 200: 16-0209.02
Texas Department of Insurance	The certifications can be viewed on the Texas Department of Insurance Windstorm website under TDI number RV-71.
State Licensed P.E. Calculations	Structural calculations performed by a state licensed Professional Engineer (P.E.) on models SFD, SFB and SWB Series 100 and 200 include Finite Element Analysis (FEA) and a stamped P.E. report of the fans compliance to ASCE 7-05 Minimum Design Loads for Buildings and Other Structures Standard and the Florida Building Code. The ASCE 7-05 Standard meets the IBC, Florida and Miami-Dade County codes.
Certified Independent Third-Party Testing	Each of the Greenheck models have been subjected to extensive testing procedures. The SFD, SFB and SWB Series 100 and 200 have been certified by an independent third-party to the ASTM E-330 Static Pressure Difference Standard, Florida Building Code Test Protocols TAS-202 Static Pressure Difference and TAS-201 Large Missile Impact. All tests are video taped for documentation of test method and results.
Computational Fluid Dynamics (CFD)	All Greenheck high wind models have been analyzed using Computational Fluid Dynamics (CFD). CFD is computer software designed to simulate the flow of high speed winds over the surface of objects. The software records the force profile exerted on the fan so it can be utilized in Finite Element Analysis (FEA).
Finite Element Analysis (FEA)	Utilizing the results from CFD analysis Greenheck can accurately predict the stress, strain, and deflection resulting from high wind loads. Greenheck high wind units have been proven to withstand high winds through Finite Element Analysis utilizing CFD results.

Temperature Options

Testing

High temperature testing was conducted at Greenheck's Research and Development facility with airstream temperatures in excess of 1000°F *(538°C)*. Temperatures were monitored at the following critical locations throughout the tests: bearings, bearing compartment, motor, motor compartment, airstream and fan housing.

Continuous Operating Temperatures

Utility fans are suitable for applications with elevated temperature airstreams. Refer to the chart at the right for continuous operating temperature guidelines and optional accessories.

High Temperature/Emergency Smoke Control

The SWB Series 200 sizes 212 to 224 may be equipped for emergency smoke removal applications by specifying a high temperature option. The table to the right indicates the construction features included in the high temperature options enabling exhaust of heat and smoke at 500°F *(260°C)* for a minimum of 4 hours or 1000°F *(538°C)* for a minimum of 15 minutes.

Temperature ratings for both high temperature options were tested in accordance to UL smoke control systems.

Continuous Operating Temperatures and Construction	SWD	SWB Series 100	SWB Series 200		SFD, SFB	
	Galvanized, Painted Steel or Aluminum	Galvanized	Painted Steel	Aluminum Airstream	SFD	SFB
-20° to 200°F *(-29° to 93°C)* Standard	✓	✓	✓	✓	✓	✓
201° to 300°F *(94° to 149°C)* Heat Slinger/ Shaft Seal		✓	✓			✓
301° to 400°F *(149° to 204°C)* Heat Slinger/ Shaft Seal			✓			

The maximum continuous operating temperature on the SWB is 400°F. For continuous operating temperatures between 401° and 1000°F use an Arrangement 1, 9 or 10, backward-inclined centrifugal fan model BISW.

High Temperature Features SWB Series 200	High Temperature Option	High Temperature Option with UL
Steel Construction	✓	✓
Shaft Seal	✓	✓
Heat Slinger	✓	✓
Weatherhood		✓
UL Label (Power Ventilators for Smoke Control Systems)		✓

Testing for Emergency Smoke Temperature and Time Guidelines			
Code	Class	Tested Temperature	Time (Hours)
IRI		500°F *(260°C)*	4.00
SBCCI		1000°F *(538°C)*	0.25
BSI	Class A	302°F *(150°C)*	5.00
BSI	Class B	482°F *(250°C)*	2.00
BSI	Class C	572°F *(300°C)*	0.50
BSI	Class D	572°F *(300°C)*	1.00
BSI	Class E	752°F *(400°C)*	2.00

Spark-Resistant Construction

The following AMCA Standards apply to fan applications that may involve the handling of potentially explosive or flammable particles, fumes or vapors. Models SFB, SWD and SWB are available with spark resistant construction options that meet the intent of these AMCA Standards.

- AMCA Type A - All parts in contact with the airstream are constructed of nonferrous material (aluminum). Models SFB, SWD and SWB do not meet AMCA Type A spark resistant construction because the fan shaft is steel.
- AMCA Type B - The fan wheel is constructed of nonferrous material (aluminum). A nonferrous (aluminum) rub ring surrounds the fan shaft where it passes through the fan housing. Available on models SWD and SWB Series 200.
- AMCA Type C - The inlet cone is constructed of nonferrous material (aluminum). A nonferrous (aluminum) rub ring surrounds the fan shaft where it passes through the fan housing.

The constructions listed minimize the potential of ferrous components making contact with each other that may produce sparks. However, they do not guarantee against the potential of producing sparks. The installer must electrically ground all fan and system components.

Options and Accessories

Motor Starters - The fundamental function of a motor starter is to protect the motor from damage that can occur from overheating. With a Greenheck motor starter, you will be provided with the best motor protection available.

Specific model components may include; physical interface, overload protection, disconnect, magnetic contactor, NEMA-1, -3R, -4 and -4X steel enclosures and pre-engineered easy system integration. For complete information on specific Greenheck Motor Starter models refer to greenheck.com, Products, Motor Starter page.

Vari-Green® Motor - SWD and SFD - Greenheck's electronically commutated (EC) Vari-Green (VG) motor combines motor technology, controllability and energy-efficiency into one single low maintenance unit.

UL/cUL 762 - SWB Series 200 models are listed for grease removal (UL/cUL 762). The UL/cUL 762 option includes a weatherhood, threaded drain connection and access door. Indoor mounting requires the fan to have welded scroll construction.

Weatherhood - Available to completely cover the motor and drive compartments; protecting the shaft, bearings, motor and drive components from moisture and other adverse weather conditions. Weatherhoods are vented to provide sufficient motor cooling, designed to meet OSHA guidelines and are easily removed for service access.

Drain Connection - Threaded drain connections can be provided to drain moisture from the bottom of the fan housing.

Grease Trap (SWB Only) - Aluminum trap is designed to collect grease residue and avoid drainage onto roof surface. Disposable grease absorbents are available for easy maintenance.

Access Doors - Access doors provide access for inspection and cleaning. Either bolted or hinged, quick opening access doors are available on all models except SFD. (Series 100—bolted option only)

Welded Scroll Construction - Welded scroll construction is available on SWD and SWB Series 200.

Aluminum Construction - Aluminum airstream option is available on SWD and SWB Series 200.

Wiring Pigtail - Allows direct hookup to the power supply eliminating field wiring to the fan.

Disconnect Switches - A wide selection of NEMA rated switches are available for positive electrical shutoff and safety, including: dust-tight, rainproof and corrosion-resistant.

Dampers - Gravity or motorized parallel blade backdraft dampers feature sturdy galvanized frames with prepunched mounting holes, aluminum blades with felt edges and balanced design for minimal resistance to airflow. Backdraft dampers are not suitable for downblast or bottom angular downblast discharge positions. The fan must be supplied with a flanged outlet to install a backdraft damper directly to the fan. Heavy-duty dampers are available for high pressure applications on fans with motors equal to or greater than 7½ horsepower.

Extended Lube Lines - Lubrication lines with grease fittings are extended from shaft bearings to the base of the drive frame panel or weatherhood for easy bearing lubrication.

Inlet box and Curb Cap - Used to minimize entry losses when a 90° turn is required at the fan inlet. Available on SWB Series 200.

Inlet and Outlet Guards - Constructed of punched sheet metal or expanded metal mounted in a steel frame to provide protection for non-ducted installations. The guards can be easily removed for fan maintenance or inspection.

Flanged Inlet and Outlet - Flanges are available for damper mounting or flanged duct connections. Inlet flanges have prepunched mounting holes. Outlet flanges are bolted on standard; welded for UL 762 applications.

Companion Flange - Connects to the inlet flange and then attaches to the ductwork. Recommended for slip-fit duct connections.

External Inlet Vane Dampers (SWB and SWD) - Available on model SWB fans, sizes 112–124 and 212–224 and SWD fans sizes 13-18. External vanes are mounted on the inlet flange. Inlet vane dampers feature zinc-plated steel blade axles, stainless steel washers and bearings. Vanes can be used for either manual or automatic operation, with controls furnished by others. Maximum operating temperature is 200°F *(93°C)*.

Protective Coatings - A wide variety of coatings and colors are available for decorative to acidic applications on SFB, SWD and SWB Series 200. All Greenheck coatings can be found in the Performance Coatings for Commercial and Industrial Fans publication.

Heat Slinger and/or Shaft Seal—all belt models and SWD - Heat slinger is an aluminum cooling disc mounted on the fan shaft between the inboard bearing and the fan housing. The disc dissipates heat conducted along the fan shaft. The shaft seal with an aluminum rub ring is available for applications where contaminated or high temperature air is being handled.

Mounting Options

Vibration Isolators

Base-mounted neoprene or spring isolators are available to lessen mechanical vibration and assure quiet operation. Free-standing, restrained and housed spring isolators are also available. Isolators are sized to match the weight of each fan.

Free-Standing Open Spring Mounts -
Type 3, 1-inch Deflection

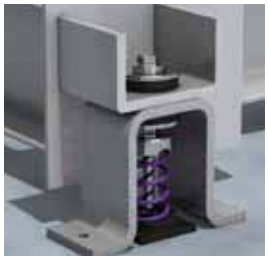
Free-standing spring isolators are unhoused laterally stable steel springs. They provide a minimum horizontal stiffness of 0.8 times the rated vertical stiffness and provide an additional 50% overload capacity. These isolators are equipped with a top-mounted adjusting bolt and an acoustical non-skid base. Springs are color coded to indicate load capacity.

Housed Spring Mounts
Type 4B, 1-inch Deflection

Housed spring isolators consist of steel springs assembled into a telescoping housing with a top-mounted adjusting bolt and an acoustical non-skid base. Housed spring isolators include resilient inserts to prevent metal-to-metal contact and provide snubbing for side loads. Springs provide an additional 50% overload capacity and are color coded to indicate load capacity.

Rubber Mounts -
Type 2, ¼-inch and ½-inch Deflection

Neoprene mountings consist of a steel top plate and base plate completely embedded in colored (oil-resistant) neoprene for easy identification of capacity. Neoprene mountings are furnished with a tapped hole in the center. This enables the equipment to be bolted securely to the rubber mount.



Restrained Spring Mounts -
Type 4A, 1-inch Deflection

Restrained spring isolators consist of laterally stable, free-standing springs assembled into a steel housing. These assemblies are designed for vertical and horizontal motion restraint. Restrained spring isolators can be used for blocking during equipment installation and are provided with leveling bolts. Springs provide 50% overload capacity and are color coded or identified to indicate load capacity. Restrained spring mounts are recommended for equipment subject to wind loading or large torquing forces.

Direct Mount - Type A

No base required. Isolators are attached directly to equipment. Direct isolation can be used if equipment is unitary and rigid without the use of additional support. If there is any doubt whether or not equipment can be supported directly on isolators, use rails, bases or consult the factory.

Mounting Rails
with Isolators

Isolation mounting rails are available with either rubber mount, free-standing open or restrained spring isolators. The isolators are mounted between aluminum rails that run the length of the fan base. Isolation rails provide easy installation on isolated systems, and are ideal for applications where there is a large overhung load. Mounting rails are available for fans up to size 36.

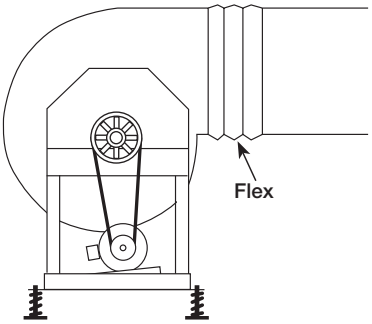
Equipment Supports

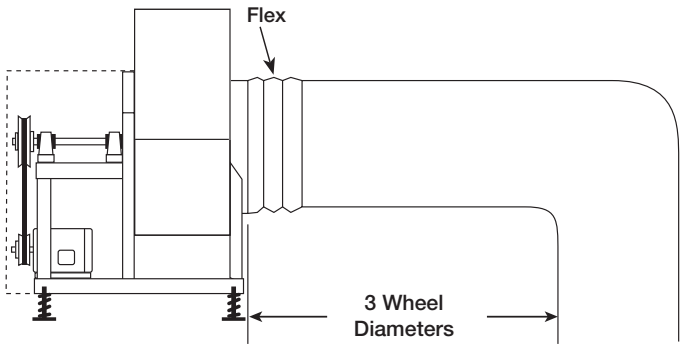
Models GESS and GESR equipment supports are available for roof mounting of utility fans up to size 36. Equipment supports are available in a number of lengths, widths, heights, and can also be built for a pitched roof.

Typical Installations

General Clean Air or Fume Hood (Non–Grease)

The SFD, SFB, SWD and SWB are designed for applications ranging from clean air to contaminated air. Typical installations are shown. Installations must include a means for inspecting, cleaning and servicing the exhaust fan.





SWB Commercial Kitchen (Grease)

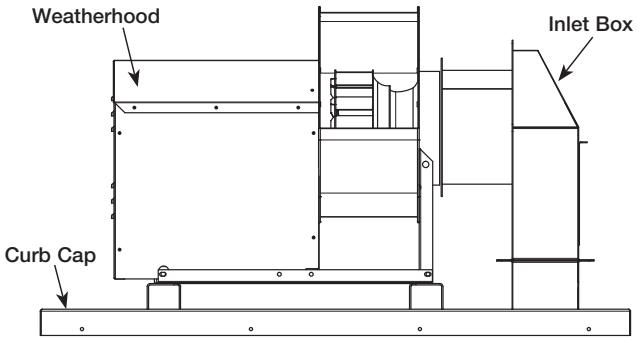
Greenheck's SWB Series 200 are designed to meet restaurant and foodservice applications. These fans are UL and cUL Listed for grease removal and have been tested under elevated temperature conditions.

Due to high temperatures and grease-laden airstreams in commercial kitchen ventilation, system designers must be aware of governing codes and guidelines. The National Fire Protection Association (NFPA) is the primary source used by many local codes for commercial kitchen ventilation systems. Local code authorities should be consulted before proceeding with any kitchen ventilation project.

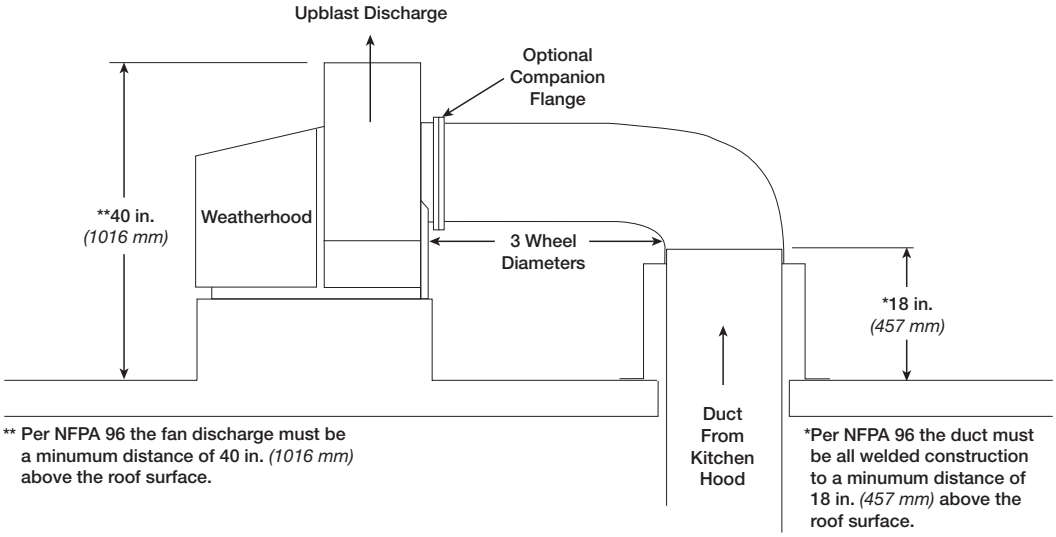
Installation must include a means for inspecting, cleaning and servicing the exhaust fan.

Fans selected for grease removal must include a weatherhood, access door and 1-inch *(25 mm)* drain connection. For grease applications where the fan is mounted indoors, the welded scroll option must be selected. An outlet guard is strongly recommended when the fan discharge is accessible. When an outlet guard is not ordered with the fan it must be provided by the installer. An upblast discharge is recommended. No dampers are to be used in the system.

The fan discharge must be a minimum of 40 inches *(1016 mm)* above the roof line and the exhaust duct must be fully welded to a minimum distance of 18 inches *(457 mm)* above the roof surface.



Inlet box and curb cap are used when space is limited and a 90° turn is required less than 3 wheel diameters from the inlet.



** Per NFPA 96 the fan discharge must be a minumum distance of 40 in. *(1016 mm)* above the roof surface.

*Per NFPA 96 the duct must be all welded construction to a minumum distance of 18 in. *(457 mm)* above the roof surface.

c UL us LISTED

SWB Series 200 models are listed for grease removal (UL/cUL 762). File no. MH11745

Selection

The first consideration in any fan selection is the amount of air to be moved and the resistance to this air movement. Air volume requirements are established through specific codes or accepted industry standards. Once the air volume is known, system resistance can be determined by summing up the losses through the system components. Duct layout, duct size, coils, filters, dampers, and fan accessories all affect system resistance. ASHRAE Guide and Data Books and manufacturer's data on individual system components are common sources of information available to the system designer.

In most applications, several fans may meet the required airflow and system resistance conditions. An optimum fan selection requires evaluation of alternative fan types and fan sizes, as they relate to initial cost, operating cost, available space, and allowable sound levels. The relative importance of these facts varies with each system.

Two types of wheels are available:

1. **Backward-inclined or airfoil wheels** turn at twice the speed of forward-curved fans and feature:
   - Higher operating efficiencies
   - A non-overloading horsepower curve which reaches a peak near the middle of the normal operation range
   - Stronger wheel design allowing for operation at higher static pressures
2. **Forward-curved wheels** typically have lower performance capabilities compared to the backward inclined and contain:
   - Overloading type wheel (meaning that changes in performance can result in significant brake horsepower changes)
   - Forward-curved wheels have lower sound levels

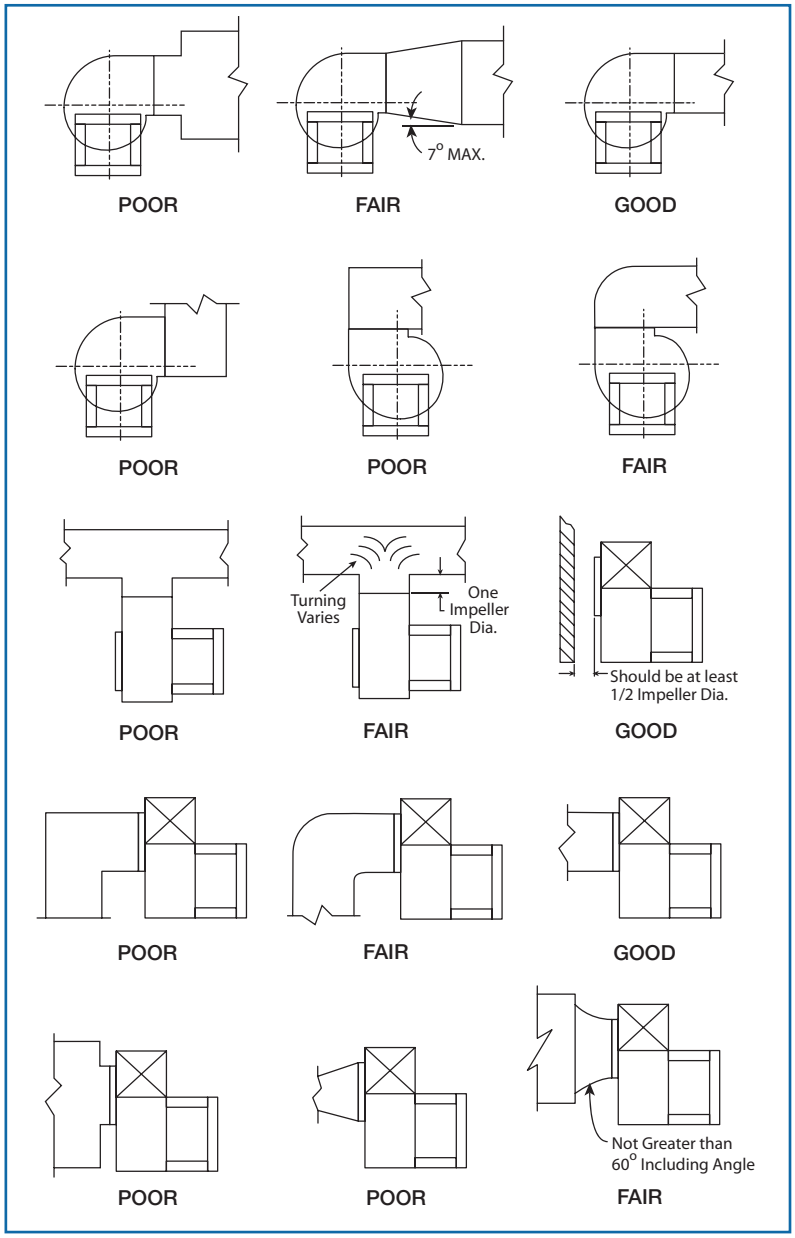
Comprehensive air performance data for these utility fans can be found in the fan tables and fan curves section, starting on page 15.

Effects of Installation on Performance

Fan ratings presented in the performance tables and curves of this catalog are in accordance with AMCA Standard 210 "Laboratory Methods of Testing Fans for Aerodynamic Performance Rating." The AMCA test procedure utilizes an open inlet and a straight outlet duct to assure maximum static regain.

Any installation with inlet or discharge configurations that deviate from this standard may result in reduced fan performance. Restricted or unstable flow at the fan inlet can cause pre rotation of incoming air or uneven loading of the fan wheel yielding large system losses and increased sound levels. Free discharge or turbulent flow in the discharge ductwork will also result in system effect losses.

The examples below show system layouts and inlet and discharge configurations which can affect fan performance.



SFD, SFB and SWD Discharge
Positions and Dimensional Data

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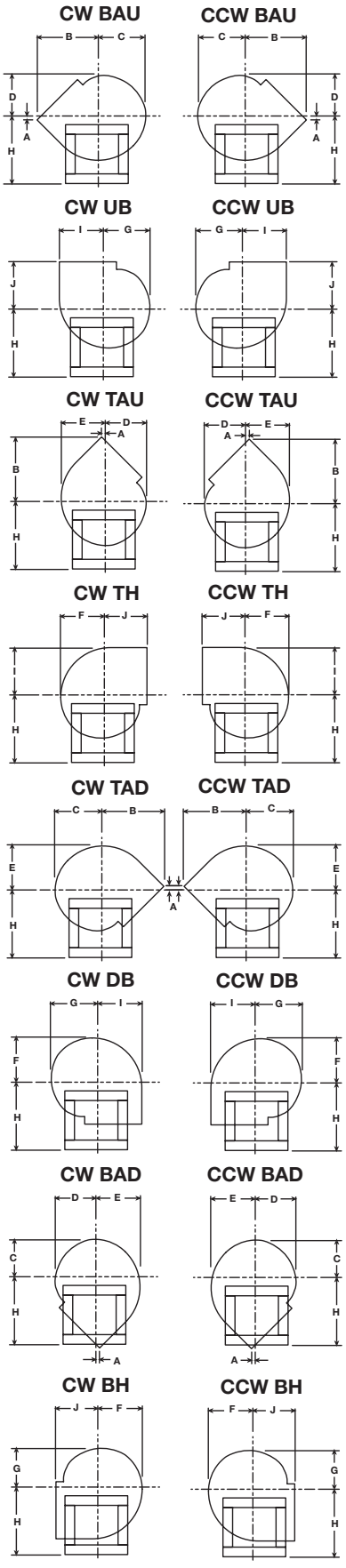
Building Value in Air.



Images are viewed from the drive side of fan.

SFD Dimensions

Unit Size	A	B	C	D	E	F	G	H	I	J
SFD-6	1 1/16 (27)	8 7/16 (214)	5 9/16 (141)	4 3/4 (121)	6 1/2 (165)	6 1/16 (154)	5 3/16 (132)	9 (230)	7 (178)	5 1/4 (133)
SFD-7.5	1 1/4 (32)	10 1/4 (260)	6 13/16 (173)	5 13/16 (148)	7 3/4 (197)	7 1/4 (184)	6 1/4 (159)	9 5/8 (245)	8 1/2 (216)	6 3/4 (171)
SFD-9	1 5/16 (33)	11 13/16 (300)	7 3/4 (197)	6 1/2 (165)	8 15/16 (227)	8 5/16 (211)	7 3/16 (183)	10 7/8 (274)	9 1/2 (241)	7 1/2 (191)
SFD-10	1 15/16 (49)	14 (356)	9 1/4 (235)	7 13/16 (198)	10 3/4 (273)	10 1/16 (256)	8 1/2 (216)	12 3/4 (324)	11 1/2 (292)	8 1/2 (216)

All dimensions in inches *(millimeters)*.

SFB Dimensions

Unit Size	A	B	C	D	E	F	G	H	I	J
SFB-9	1 3/8 (35)	12 11/16 (322)	8 1/4 (210)	7 (178)	9 1/2 (241)	8 15/16 (227)	7 5/8 (194)	13 4/5 (350)	10 1/4 (260)	8 (203)
SFB-10	1 7/16 (37)	14 1/2 (368)	9 5/16 (237)	7 13/16 (198)	10 3/4 (273)	10 1/16 (256)	8 9/16 (217)	15 1/6 (385)	11 1/2 (292)	9 1/4 (235)
SFB-12	2 1/4 (57)	16 (406)	10 11/16 (271)	9 1/16 (230)	12 3/8 (314)	11 9/16 (294)	9 7/8 (251)	15 1/6 (385)	13 1/4 (337)	9 3/4 (248)
SFB-15	2 11/16 (68)	17 9/16 (446)	11 13/16 (300)	9 15/16 (252)	13 11/16 (348)	12 11/16 (322)	10 7/8 (276)	16 3/4 (426)	14 5/8 (371)	10 5/8 (270)
SFB-18	4 1/16 (103)	23 3/8 (594)	15 13/16 (402)	13 1/4 (337)	18 5/16 (465)	17 1/8 (435)	14 5/8 (371)	22 1/3 (567)	19 5/8 (498)	13 3/4 (349)
SFB-20	4 9/16 (116)	25 1/2 (648)	17 1/4 (438)	14 1/2 (368)	20 1/16 (510)	18 3/4 (476)	16 1/16 (408)	24 4/9 (621)	21 1/2 (546)	14 7/8 (378)
SFB-22	5 5/16 (135)	28 (711)	19 1/16 (484)	16 (406)	22 1/8 (562)	20 3/4 (527)	17 11/16 (449)	28 4/9 (723)	23 3/4 (603)	16 (406)
SFB-25	6 1/16 (154)	30 11/16 (779)	21 1/16 (535)	17 3/4 (451)	24 7/16 (621)	22 7/8 (581)	19 9/16 (497)	31 3/5 (803)	26 1/4 (667)	17 1/2 (445)
SFB-27	5 (127)	34 (864)	22 (559)	19 (483)	26 1/2 (673)	24 1/2 (622)	20 7/8 (530)	33 (838)	28 3/4 (730)	18 7/8 (479)
SFB-30	6 5/8 (168)	38 1/8 (968)	25 (635)	21 1/8 (537)	29 (737)	27 1/4 (692)	23 1/4 (591)	36 3/5 (930)	31 5/8 (803)	21 (533)

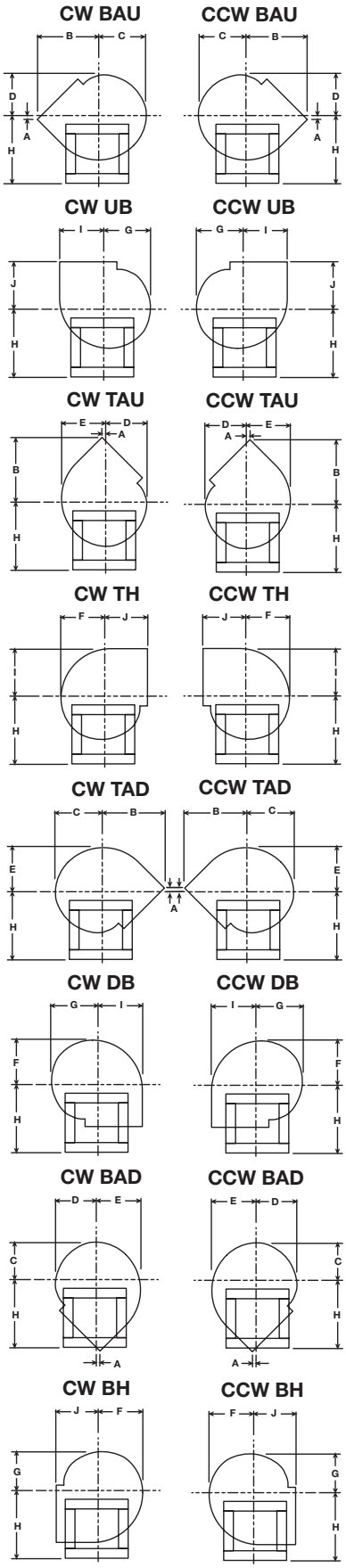
All dimensions in inches *(millimeters)*.

SWD Dimensions

Unit Size	A	B	C	D	E	F	G	H	I	J
SWD-7	1 15/16 (49)	14 1/8 (359)	9 1/4 (235)	7 13/16 (198)	10 3/4 (273)	10 1/8 (257)	8 5/8 (219)	15 1/8 (384)	11 1/2 (292)	8 5/8 (219)
SWD-8	1 15/16 (49)	14 1/8 (359)	9 1/4 (235)	7 13/16 (198)	10 3/4 (273)	10 1/8 (257)	8 5/8 (219)	15 1/8 (384)	11 1/2 (292)	8 5/8 (219)
SWD-10	1 15/16 (49)	14 1/8 (359)	9 1/4 (235)	7 13/16 (198)	10 3/4 (273)	10 1/8 (257)	8 5/8 (219)	15 1/8 (384)	11 1/2 (292)	8 5/8 (219)
SWD-13	2 11/16 (68)	17 5/8 (448)	11 3/4 (298)	9 7/8 (251)	13 5/8 (346)	12 3/4 (324)	10 7/8 (276)	16 5/8 (422)	14 5/8 (371)	10 5/8 (270)
SWD-15	3 1/8 (79)	19 1/2 (495)	13 1/16 (332)	11 (279)	15 1/8 (384)	14 1/8 (359)	12 1/8 (308)	18 1/2 (470)	16 1/4 (413)	11 5/8 (295)
SWD-16	3 1/2 (89)	21 1/4 (540)	14 5/15 (364)	12 (305)	16 3/16 (406)	15 1/2 (394)	13 1/4 (337)	20 3/8 (518)	17 3/4 (451)	12 1/2 (318)
SWD-18	4 1/16 (103)	23 3/8 (594)	15 13/16 (402)	13 1/4 (337)	18 5/16 (465)	17 1/8 (435)	14 5/8 (371)	22 3/8 (568)	19 5/8 (498)	13 3/4 (349)

All dimensions in inches *(millimeters)*.

SWB Discharge
Positions and Dimensional Data



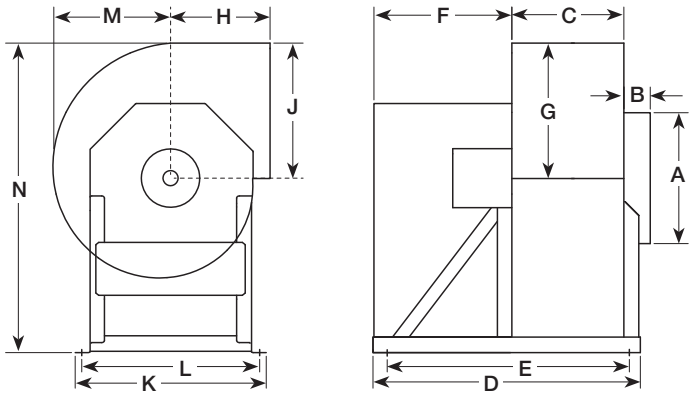
Images are viewed from the drive side of fan.

SWB Dimensions

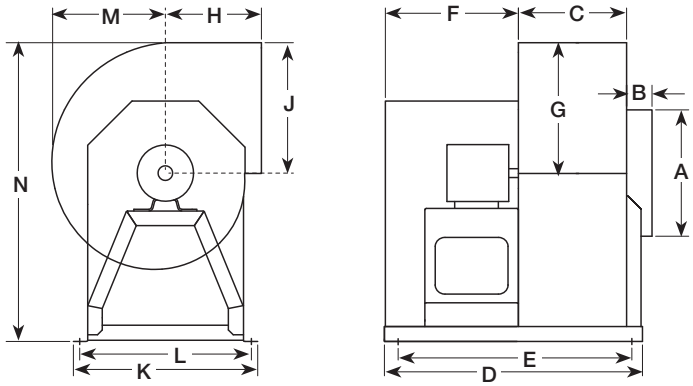
Size	A	B	C	D	E	F	G	H	I	J
106	1 15/16 (49)	14 1/8 (359)	9 1/4 (235)	7 13/16 (198)	10 3/4 (273)	10 1/8 (257)	8 5/8 (219)	15 1/8 (384)	11 1/2 (292)	8 5/8 (219)
107	1 15/16 (49)	14 1/8 (359)	9 1/4 (235)	7 13/16 (198)	10 3/4 (273)	10 1/8 (257)	8 5/8 (219)	15 1/8 (384)	11 1/2 (292)	8 5/8 (219)
108	1 15/16 (49)	14 1/8 (359)	9 1/4 (235)	7 13/16 (198)	10 3/4 (273)	10 1/8 (257)	8 5/8 (219)	15 1/8 (384)	11 1/2 (292)	8 5/8 (219)
110	1 15/16 (49)	14 1/8 (359)	9 1/4 (235)	7 13/16 (198)	10 3/4 (273)	10 1/8 (257)	8 5/8 (219)	15 1/8 (384)	11 1/2 (292)	8 5/8 (219)
113	2 11/16 (68)	17 5/8 (448)	11 3/4 (298)	9 7/8 (251)	13 5/8 (346)	12 3/4 (324)	10 7/8 (276)	16 5/8 (422)	14 5/8 (371)	10 5/8 (270)
115	3 1/8 (79)	19 1/2 (495)	13 1/16 (332)	11 (279)	15 1/8 (384)	14 1/8 (359)	12 1/8 (308)	18 1/2 (470)	16 1/4 (413)	11 5/8 (295)
116	3 1/2 (89)	21 1/4 (540)	14 5/15 (364)	12 (305)	16 9/16 (406)	15 1/2 (394)	13 1/4 (337)	20 3/8 (518)	17 3/4 (451)	12 1/2 (318)
118	4 1/16 (103)	23 3/8 (594)	15 13/16 (402)	13 1/4 (337)	18 5/16 (465)	17 1/8 (435)	14 5/8 (371)	22 3/8 (568)	19 5/8 (498)	13 3/4 (349)
120	4 9/16 (116)	25 1/2 (648)	17 1/4 (438)	14 1/2 (368)	20 1/16 (510)	18 3/4 (476)	16 1/8 (410)	24 1/2 (622)	21 1/2 (546)	14 7/8 (378)
124	5 13/16 (402)	30 15/16 (786)	21 1/16 (535)	17 3/4 (451)	24 7/16 (621)	22 7/8 (581)	19 9/16 (497)	31 1/2 (800)	26 1/4 (667)	17 3/4 (451)
206	1 15/16 (49)	14 1/8 (359)	9 1/4 (235)	7 13/16 (198)	10 3/4 (273)	10 1/8 (257)	8 5/8 (219)	15 1/8 (384)	11 1/2 (292)	8 5/8 (219)
207	1 15/16 (49)	14 1/8 (359)	9 1/4 (235)	7 13/16 (198)	10 3/4 (273)	10 1/8 (257)	8 5/8 (219)	15 1/8 (384)	11 1/2 (292)	8 5/8 (219)
208	1 15/16 (49)	14 1/8 (359)	9 1/4 (235)	7 13/16 (198)	10 3/4 (273)	10 1/8 (257)	8 5/8 (219)	15 1/8 (384)	11 1/2 (292)	8 5/8 (219)
210	1 15/16 (49)	14 1/8 (359)	9 1/4 (235)	7 13/16 (198)	10 3/4 (273)	10 1/8 (257)	8 5/8 (219)	15 1/8 (384)	11 1/2 (292)	8 5/8 (219)
212	2 5/16 (59)	16 1/8 (410)	10 11/16 (271)	9 (229)	12 3/8 (314)	11 5/8 (295)	9 15/16 (252)	15 1/8 (384)	13 1/4 (337)	9 3/4 (248)
213	2 11/16 (68)	17 5/8 (448)	11 3/4 (298)	9 7/8 (251)	13 5/8 (346)	12 3/4 (324)	10 7/8 (276)	16 5/8 (422)	14 5/8 (371)	10 5/8 (270)
215	3 1/8 (79)	19 1/2 (495)	13 1/16 (332)	11 (279)	15 1/8 (384)	14 1/8 (359)	12 1/8 (308)	18 1/2 (470)	16 1/4 (413)	11 5/8 (295)
216	3 1/2 (89)	21 1/4 (540)	14 5/15 (364)	12 (305)	16 9/16 (406)	15 1/2 (394)	13 1/4 (337)	20 3/8 (518)	17 3/4 (451)	12 1/2 (318)
218	4 1/16 (103)	23 3/8 (594)	15 13/16 (402)	13 1/4 (337)	18 5/16 (465)	17 1/8 (435)	14 5/8 (371)	22 3/8 (568)	19 5/8 (498)	13 3/4 (349)
220	4 9/16 (116)	25 1/2 (648)	17 1/4 (438)	14 1/2 (368)	20 1/16 (510)	18 3/4 (476)	16 1/8 (410)	24 1/2 (622)	21 1/2 (546)	14 7/8 (378)
222	5 3/16 (132)	28 1/16 (713)	19 1/16 (484)	16 (406)	22 1/8 (562)	20 5/8 (524)	17 11/16 (449)	28 3/4 (730)	23 3/4 (603)	16 1/4 (413)
224	5 13/16 (402)	30 15/16 (786)	21 1/16 (535)	17 3/4 (451)	24 7/16 (621)	22 7/8 (581)	19 9/16 (497)	31 1/2 (800)	26 1/4 (667)	17 3/4 (451)

All dimensions in inches *(millimeters)*.

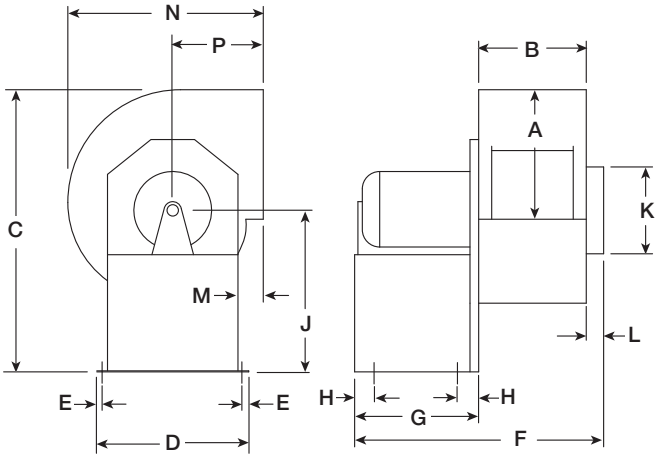
Model SWD (7 -10)



Model SWD (13 - 18)



Model SFD



Dimensional Data																
Model SFD	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Max. Motor Frame Size	*Unit Weight
6	7⅜ *(187)*	5¼ *(133)*	16 *(406)*	11 *(279)*	5/8 *(16)*	14 11/16 *(373)*	8 3/16 *(208)*	1 1/16 *(27)*	9 1/16 *(230)*	6 *(152)*	1¼ *(32)*	7/8 *(22)*	11¼ *(286)*	5 3/16 *(132)*	56	30 *(14)*
7.5	9 *(229)*	5¼ *(133)*	18 1/16 *(459)*	12¼ *(311)*	5/8 *(16)*	14 5/16 *(364)*	8⅛ *(206)*	1 1/16 *(27)*	9⅝ *(244)*	8 *(203*	1¼ *(32)*	1⅛ *(29)*	13 11/16 *(348)*	6⅜ *(162)*	56	40 *(18)*
9	10⅛ *(257)*	6¼ *(159)*	20 5/16 *(516)*	13¾ *(349)*	5/8 *(16)*	17⅞ *(454)*	10⅜ *(264)*	1 1/16 *(27)*	10¾ *(273)*	10 *(254)*	1¼ *(32)*	1⅜ *(35)*	15 13/16 *(402)*	7 7/16 *(189)*	145T	75 *(34)*
10	12⅛ *(308)*	6¾ *(171)*	24 5/16 *(618)*	16¼ *(413)*	9/16 *(14)*	19⅜ *(492)*	11⅜ *(289)*	1 1/16 *(27)*	12¾ *(324)*	12 *(305)*	1¼ *(32)*	1⅜ *(35)*	18⅝ *(473)*	8½ *(216)*	184T	113 *(51)*
SWD	A	B	C	D	E	F	G	H	J	K	L	M	N			
7	11 *(279)*	2 *(51)*	9 ¾ *(248)*	23 ¼ *(591)*	21 ¾ *(552)*	12 ⅛ *(308)*	11 ¼ *(286)*	8 ⅝ *(219)*	11 ½ *(292)*	16 ⅞ *(429)*	16 *(406)*	10 ⅛ *(257)*	26 ⅝ *(676)*	–	–	69 *(31)*
8	11 *(279)*	2 *(51)*	9 ¾ *(248)*	23 ¼ *(591)*	21 ¾ *(552)*	12 ⅛ *(308)*	11 ¼ *(286)*	8 ⅝ *(219)*	11 ½ *(292)*	16 ⅞ *(429)*	16 *(406)*	10 ⅛ *(257)*	26 ⅝ *(676)*	–	–	69 *(31)*
10	11 *(279)*	2 *(51)*	9 ¾ *(248)*	23 ¼ *(591)*	21 ¾ *(552)*	12 ⅛ *(308)*	11 ¼ *(286)*	8 ⅝ *(219)*	11 ½ *(292)*	16 ⅞ *(429)*	16 *(406)*	10 ⅛ *(257)*	26 ⅝ *(676)*	–	–	69 *(31)*
13	14 *(356)*	2 *(51)*	10 ⅝ *(270)*	25 ¾ *(654)*	23 ¼ *(591)*	13 ¾ *(349)*	14 ⅛ *(359)*	10 ⅝ *(270)*	14 ½ *(369)*	19 ⅜ *(492)*	17 ⅝ *(448)*	12 ¾ *(324)*	31 ¼ *(794)*	–	–	96 *(44)*
15	15 ⅞ *(403)*	2 *(51)*	11 ⅝ *(295)*	27 *(686)*	24 ½ *(622)*	13 ¾ *(349)*	15 ⅝ *(397)*	11 ⅝ *(295)*	16 ⅞ *(429)*	21 ⅛ *(537)*	19 ½ *(495)*	14 ⅛ *(359)*	34 ¾ *(883)*	–	–	123 *(56)*
16	17 ½ *(445)*	2 *(51)*	12 ¾ *(324)*	28 *(713)*	25 ½ *(648)*	13 ¾ *(349)*	17 ⅜ *(441)*	12 ½ *(318)*	18 ⅛ *(461)*	22 ⅜ *(568)*	20 ⅝ *(524)*	15 ½ *(394)*	38 ⅛ *(969)*	–	–	133 *(60)*
18	19 ¼ *(489)*	2 *(51)*	14 ⅛ *(359)*	29 ½ *(750)*	26 ⅞ *(683)*	13 ¾ *(349)*	19 5/16 *(491)*	13 ¾ *(349)*	19 ⅞ *(505)*	22 ⅜ *(568)*	22 ⅝ *(575)*	17 ⅛ *(435)*	42 *(1067)*	–	–	147 *(67)*

All dimensions in inches *(millimeters). Weight given in pounds (kilograms)*

GREENHECK
Building Value in Air.

Model Number Code

The model number code is designed to completely identify the fan. The correct code letters must be specified to designate the correct construction. The remainder of the model number is determined by the size and performance.

SW B - 1 10 - 3 - CW - TH

Wheel Type
SW - Backward-Incline
SF - Forward-Curved

Drive
B - Belt
D - Direct

Series (SWB Only)
100 - Galvanized Construction
200 - Permatector™ Coated Steel Construction

Fan Size
06 through 30

Motor HP

4 = 1/4	15 = 1½	100 = 10
3 = 1/3	20 = 2	150 = 15
5 = 1/2	30 = 3	200 = 20
7 = 3/4	50 = 5	
10 = 1	75 = 7½	

Wheel Rotation
CW - Clockwise
CCW - Counterclockwise

Discharge Position
UB - Upblast
TAU - Top Angular Upblast
TH - Top Horizontal
TAD - Top Angular Downblast
DB - Downblast
BAD - Backward Angular Downblast
BH - Backward Horizontal
BAU - Backward Angular Upblast

SFD dimensional drawings found on page 14.

VARI-GREEN

Motor RPM *(Direct Drive only)*
A = 1725 D = 1550
B = 1140 E = 1050
C = 860 G = 1300
VG = Vari-Green

International
(See CAPS for performance)
K = 950 RPM J = 1475 RPM

Model SFD	Wheel Diameter	Outlet Area
6	6-5/16 (160)	0.27 (0.03)
7.5	7-2/3 (195)	0.33 (0.03)
9	9-1/8 (232)	0.44 (0.04)
10	10-3/4 (273)	0.57 (0.05)

Model SFD Direct Drive		Motor HP		Fan RPM		Static Pressure in Inches wg									
						0.125	0.25	0.375	0.5	0.75	1	1.25	1.5	2	2.5
6	6B	VG	1/6	1140	CFM	407	338	232							
					BHP	0.06	0.05	0.03							
					Sones	6.7	6.0	4.7							
	4A	1/4	1/4	1725	CFM	667	628	585	541	424					
					BHP	0.24	0.22	0.20	0.17	0.13					
					Sones	13.6	12.8	12.3	11.7	10.5					
7.5	6B	VG	1/6	1140	CFM	672	612	549	467						
					BHP	0.16	0.14	0.13	0.10						
					Sones	10.6	9.8	9.4	8.6						
	5A	1/2	1/2	1725	CFM	1062	1028	988	949	869	775	636			
					BHP	0.59	0.56	0.53	0.50	0.46	0.38	0.30			
					Sones	20	18.6	16.8	15.8	14.1	12.7	11.3			
9	4C	1/4		860	CFM	839	748	645	487						
					BHP	0.18	0.15	0.12	0.09						
					Sones	9.2	7.8	7.0	6.6						
	5B	1/2		1140	CFM	1159	1097	1028	957	782					
					BHP	0.46	0.42	0.38	0.34	0.26					
					Sones	16.1	14.9	14.3	13.6	12.3					
	15A	1½		1725	CFM	1806	1765	1725	1683	1595	1502	1407	1298	989	
					BHP	1.64	1.59	1.54	1.48	1.36	1.24	1.13	1.01	0.70	
					Sones	31	29	28	27	25	22	21	21	19.3	
10	3C	1/3		860	CFM	1259	1176	1085	965						
					BHP	0.36	0.32	0.29	0.25						
					Sones	12.3	11.3	10.0	9.2						
	7B	3/4		1140	CFM	1713	1653	1592	1528	1378	1163				
					BHP	0.86	0.82	0.77	0.72	0.64	0.52				
					Sones	19.4	18.5	17.6	17.0	15.7	13.9				
	30A	3		1725	CFM	2641	2603	2564	2525	2444	2362	2275	2179	1942	1621
					BHP	3.03	2.98	2.93	2.87	2.73	2.60	2.44	2.32	2.01	1.62
					Sones	39	37	36	35	33	31	30	29	27	25

Performance certified is for installation Type B - Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

GREENHECK
Building Value in Air.

SWD dimensional drawings
found on page 14.

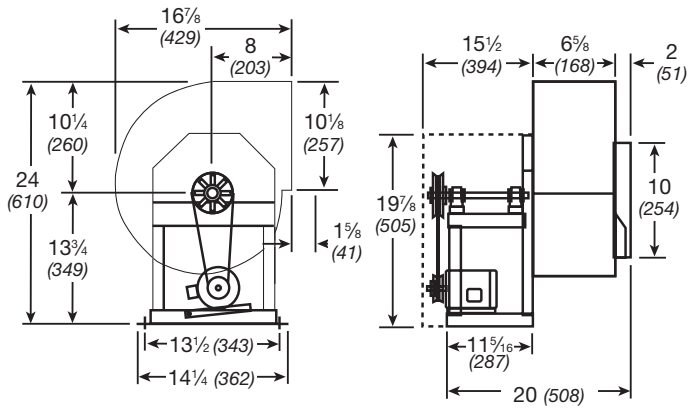
Model SWD	Wheel Diameter	Outlet Area
7	11-3/8 (289)	0.76 (0.07)
8	11-3/8 (289)	0.76 (0.07)
10	11-3/8 (289)	0.76 (0.07)
13	13-1/2 (343)	1.03 (0.10)
15	14-3/4 (375)	1.25 (0.12)
16	17 (432)	1.52 (0.14)
18	19 (483)	1.87 (0.17)

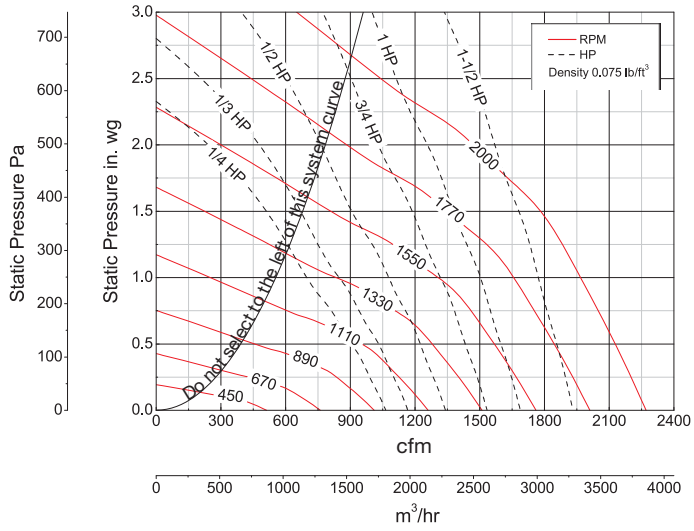
VARI-GREEN

Model SWD	VG Motor HP	Fan RPM		Static Pressure in Inches wg									
				0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5
7	1/4	1725	CFM	535	493	437	380	308					
			BHP	0.16	0.17	0.17	0.17	0.17					
			Sones	12.4	11.6	10.8	11.1	10.6					
	1/2	2500	CFM	802	778	750	721	689	648	603	566	523	477
			BHP	0.49	0.5	0.51	0.51	0.52	0.52	0.52	0.52	0.52	0.52
			Sones	23	22	22	21	21	20	19.8	19.3	18.8	18.2
8	1/4	1725	CFM	713	630	534	405						
			BHP	0.14	0.15	0.15	0.15						
			Sones	10.5	10.2	9.5	9						
	1/2	2500	CFM	1092	1039	984	926	864	796	716	625	520	
			BHP	0.4	0.42	0.43	0.45	0.45	0.46	0.45	0.45	0.46	
			Sones	17.6	17.4	17.1	16.6	16.2	15.5	14.8	14.2	14	
10	1/4	1725	CFM	1283	1168	1047	921	785					
			BHP	0.26	0.27	0.27	0.27	0.27					
			Sones	14.7	13.6	12.7	12	11.5					
	3/4	2200	CFM	1691	1602	1512	1422	1324	1226	1123	1018	882	
			BHP	0.54	0.55	0.55	0.56	0.56	0.56	0.56	0.55	0.55	
			Sones	21	19.7	18.9	18.2	17.4	16.6	15.5	14.6	14.9	
13	1/4	1200	CFM	1382	1191	964							
			BHP	0.18	0.19	0.19							
			Sones	9.3	8.9	8.6							
	1/2	1550	CFM	1874	1739	1591	1427	1246					
			BHP	0.38	0.39	0.41	0.41	0.4					
			Sones	13.6	13	12.3	11.5	11					
	3/4	1725	CFM	2115	1995	1870	1731	1581	1419	1230			
			BHP	0.52	0.53	0.55	0.56	0.57	0.56	0.54			
			Sones	16	15.6	14.9	14.2	13.6	12.9	12.5			
15	1/2	1150	CFM	1905	1671	1416							
			BHP	0.28	0.29	0.29							
			Sones	10.5	9.9	9.2							
	3/4	1400	CFM	2412	2224	2027	1818	1605					
			BHP	0.51	0.51	0.52	0.52	0.52					
			Sones	14	13.2	12.5	11.8	11.2					
	1	1725	CFM	3053	2896	2746	2592	2422	2252	2080	1906		
			BHP	0.93	0.95	0.96	0.97	0.98	0.98	0.97	0.96		
			Sones	19.5	19	18.2	17.5	16.8	16	15.2	14.7		
16	3/4	900	CFM	2054	1754	1394							
			BHP	0.25	0.26	0.26							
			Sones	8.8	8	7							
	1	1300	CFM	3173	2983	2795	2573	2328	2078				
			BHP	0.72	0.75	0.77	0.79	0.79	0.78				
			Sones	16.1	15.3	14.6	13.8	13.1	12.6				
	2	1725	CFM	4324	4176	4033	3890	3748	3593	3422	3241	3052	2863
			BHP	1.65	1.7	1.73	1.76	1.79	1.82	1.85	1.85	1.84	1.83
			Sones	26	24	24	23	22	21	21	20	19.7	18.9
18	3/4	850	CFM	2880	2510	2060							
			BHP	0.39	0.4	0.39							
			Sones	9.8	9	8.2							
	1	950	CFM	3302	2964	2631	2162						
			BHP	0.54	0.55	0.56	0.54						
			Sones	11.9	11	10.1	9.6						
	2	1300	CFM	4734	4487	4240	3994	3765	3496	3157			
			BHP	1.37	1.39	1.41	1.43	1.44	1.43	1.4			
			Sones	20	19.7	19.2	18.4	17.6	17	16.6			

Performance certified is for installation Type B - Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SFB-9 - Belt Drive





Wheel Diameter = 9½ *(241)*
Shaft Diameter = 3/4 *(19)*
Outlet Area = 0.454 ft² *(0.042 m²)*
^Approximate Unit Weight = 120 lb. *(54 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 12
^Weight shown is largest cataloged Open Drip Proof motor

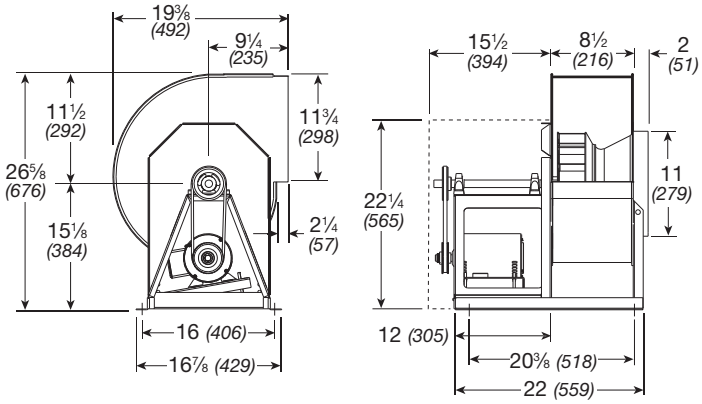
Maximum BHP at given RPM = (RPM/1747)³
(Maximum KW at a given RPM = (RPM/1926)³)
Maximum RPM = 2000 and Minimum RPM = 450
Tip Speed (ft/min.) = RPM x 2.49
(Tip Speed (m/s) = RPM x 0.0126)
Maximum Motor Frame Size = 145T

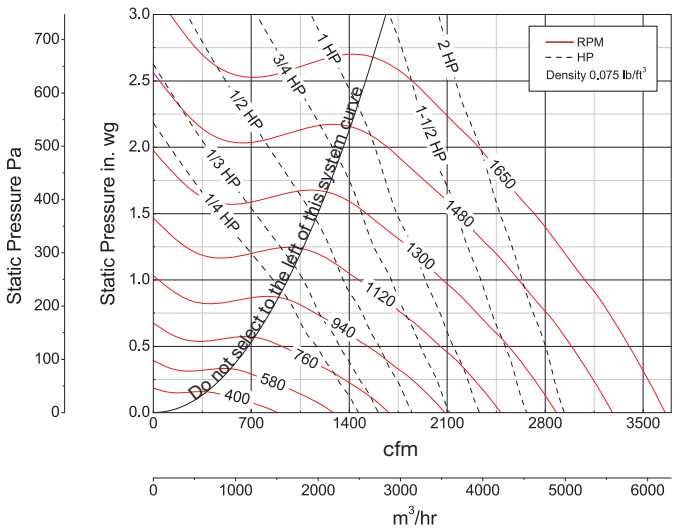
SFB-9

CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5
360	792	RPM	644									
		BHP	0.03									
		Sones	6.3									
460	1013	RPM	681	891								
		BHP	0.05	0.08								
		Sones	6.8	11.0								
560	1233	RPM	728	930	1090	1225						
		BHP	0.07	0.11	0.15	0.19						
		Sones	7.5	10.8	10.1	10.3						
660	1453	RPM	780	966	1129	1264	1382					
		BHP	0.09	0.14	0.18	0.23	0.28					
		Sones	8.5	10.7	10.3	10.6	11.0					
760	1674	RPM	838	1013	1166	1303	1422	1528	1628			
		BHP	0.13	0.18	0.23	0.28	0.34	0.39	0.44			
		Sones	9.8	10.6	10.7	11.0	11.8	13.2	14.5			
860	1894	RPM	909	1064	1207	1340	1461	1568	1667	1758	1845	
		BHP	0.17	0.23	0.28	0.34	0.40	0.46	0.52	0.58	0.64	
		Sones	11.1	10.9	11.1	11.4	12.6	14.0	15.4	17.0	18.6	
960	2114	RPM	983	1118	1256	1378	1498	1608	1706	1798	1883	1965
		BHP	0.23	0.28	0.34	0.40	0.47	0.54	0.61	0.68	0.75	0.82
		Sones	11.1	11.5	11.8	12.1	13.4	14.9	16.4	18.0	19.7	21
1060	2334	RPM	1059	1174	1306	1426	1534	1644	1745	1837	1923	
		BHP	0.30	0.35	0.42	0.49	0.55	0.63	0.71	0.78	0.86	
		Sones	12.0	12.2	12.6	13.2	14.3	15.8	17.5	19.1	21	
1260	2775	RPM	1216	1318	1417	1528	1631	1728	1818	1911	1999	
		BHP	0.48	0.54	0.61	0.69	0.77	0.84	0.92	1.01	1.10	
		Sones	14.2	14.3	14.6	15.7	16.8	18.1	19.5	21	23	
1360	2995	RPM	1297	1392	1482	1583	1682	1777	1866	1949		
		BHP	0.59	0.66	0.72	0.81	0.89	0.98	1.06	1.14		
		Sones	15.7	15.7	16.1	17.0	18.1	19.5	21	22		
1460	3215	RPM	1378	1468	1554	1639	1736	1827	1915	1998		
		BHP	0.71	0.79	0.86	0.94	1.03	1.13	1.22	1.31		
		Sones	17.3	17.2	17.6	18.3	19.6	21	22	24		

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SFB-10 - Belt Drive





Wheel Diameter = 10⅝ *(270)*
Shaft Diameter = 3/4 *(19)*
Outlet Area = 0.705 ft² *(0.065 m²)*
^Approximate Unit Weight = 130 lb. *(59 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 12
^Weight shown is largest cataloged Open Drip Proof motor

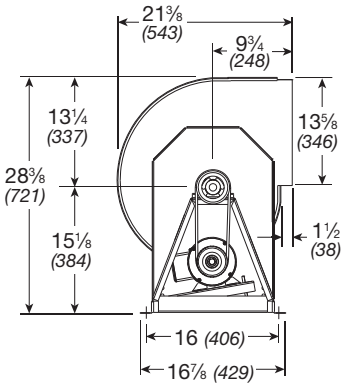
Maximum BHP at given RPM = (RPM/1310)³
(Maximum KW at a given RPM = (RPM/1444)³)
Maximum RPM = 1650 and Minimum RPM = 400
Tip Speed (ft/min.) = RPM x 2.78
(Tip Speed (m/s) = RPM x 0.0141)
Maximum Motor Frame Size = 145T

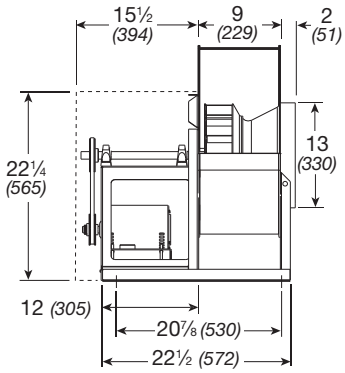
SFB-10

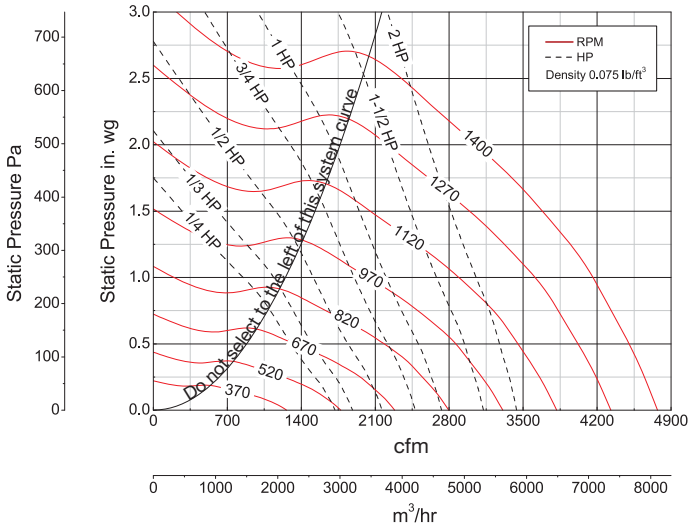
CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5
600	851	RPM	526									
		BHP	0.05									
		Sones	5.6									
790	1121	RPM	575	730								
		BHP	0.08	0.12								
		Sones	6.2	9.1								
980	1390	RPM	633	777	897	1013						
		BHP	0.13	0.18	0.23	0.30						
		Sones	7.1	10.3	10.3	10.2						
1170	1660	RPM	693	828	944	1045	1144					
		BHP	0.19	0.25	0.32	0.38	0.45					
		Sones	8.3	10.7	10.3	10.6	10.9					
1360	1930	RPM	760	887	994	1092	1181	1263	1349	1430		
		BHP	0.27	0.35	0.42	0.50	0.57	0.64	0.73	0.81		
		Sones	9.9	10.7	10.7	11.0	11.3	12.0	13.3	14.7		
1550	2199	RPM	828	946	1049	1142	1229	1309	1383	1456	1531	1603
		BHP	0.37	0.46	0.54	0.63	0.73	0.81	0.89	0.97	1.02	1.17
		Sones	11.1	11.0	11.3	11.6	12.0	13.0	14.2	15.5	17.0	18.7
1740	2469	RPM	898	1009	1109	1196	1279	1357	1430	1499	1564	1629
		BHP	0.50	0.60	0.70	0.79	0.89	1.00	1.09	1.18	1.27	1.37
		Sones	11.4	11.7	12.1	12.4	13.1	14.2	15.5	16.8	18.1	19.9
1930	2739	RPM	973	1077	1169	1256	1332	1407	1479	1546	1611	
		BHP	0.66	0.77	0.87	0.99	1.08	1.20	1.32	1.43	1.53	
		Sones	12.4	12.7	13.0	13.6	14.5	15.6	16.8	18.1	19.8	
2120	3008	RPM	1050	1145	1232	1316	1393	1461	1529	1596		
		BHP	0.85	0.97	1.09	1.21	1.33	1.43	1.56	1.69		
		Sones	13.8	13.9	14.1	15.0	16.0	17.1	18.3	19.8		
2310	3278	RPM	1128	1214	1299	1376	1452	1522	1585	1647		
		BHP	1.08	1.21	1.34	1.46	1.59	1.72	1.84	1.97		
		Sones	15.3	15.2	15.6	16.5	17.6	18.8	20	22		
2500	3548	RPM	1207	1285	1368	1441	1512	1581	1645			
		BHP	1.36	1.48	1.63	1.76	1.90	2.04	2.18			
		Sones	17.1	16.9	17.4	18.3	19.4	21	22			

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SFB-12 - Belt Drive







Wheel Diameter = 12⅝ *(321)*
Shaft Diameter = 3/4 *(19)*
Outlet Area = 0.856 ft² *(0.08 m²)*
^Approximate Unit Weight = 147 lb. *(67 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 12
^Weight shown is largest cataloged Open Drip Proof motor

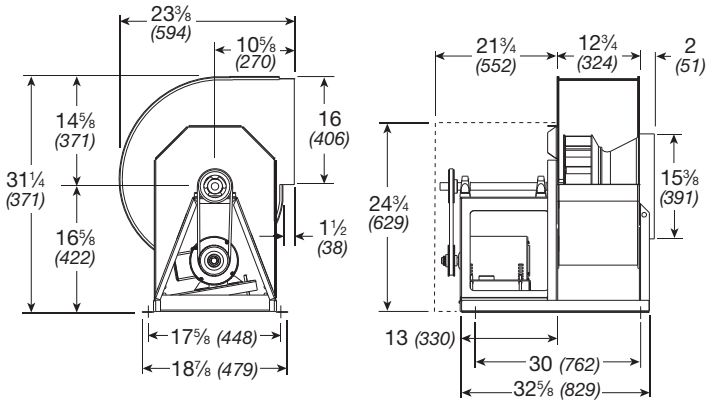
Maximum BHP at given RPM = (RPM/1111)³
(Maximum KW at a given RPM = (RPM/1225)³)
Maximum RPM = 1400 and Minimum RPM = 370
Tip Speed (ft/min.) = RPM x 3.30
(Tip Speed (m/s) = RPM x 0.0168)
Maximum Motor Frame Size = 145T

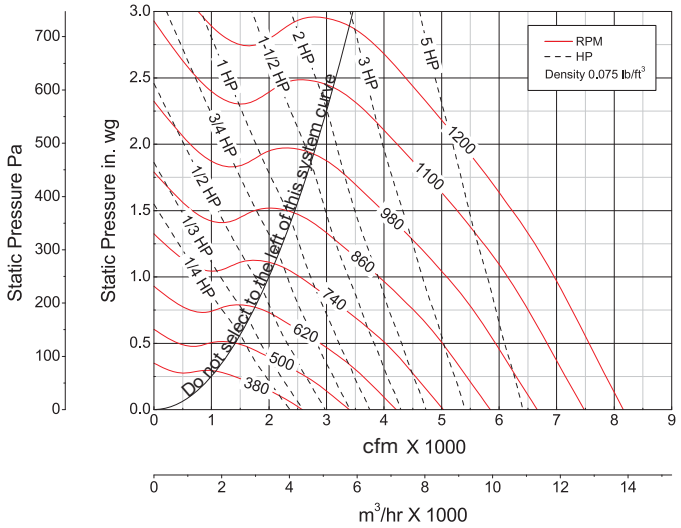
SFB-12

CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5
825	964	RPM	455									
		BHP	0.07									
		Sones	5.7									
1065	1244	RPM	493	631								
		BHP	0.12	0.18								
		Sones	6.3	9.3								
1305	1525	RPM	533	665	773	871						
		BHP	0.18	0.25	0.33	0.40						
		Sones	7.1	10.2	10.3	10.5						
1545	1805	RPM	580	703	806	897	983	1061				
		BHP	0.26	0.35	0.43	0.52	0.62	0.71				
		Sones	8.2	10.5	10.6	11.0	11.3	12.0				
1785	2086	RPM	632	743	844	931	1010	1087	1158	1225		
		BHP	0.36	0.47	0.57	0.67	0.77	0.88	0.99	1.09		
		Sones	9.6	10.7	11.1	11.5	11.8	13.0	14.4	16.0		
2025	2367	RPM	686	789	883	969	1045	1116	1185	1251	1313	1373
		BHP	0.49	0.61	0.74	0.85	0.96	1.07	1.19	1.32	1.44	1.56
		Sones	11.0	11.4	11.8	12.2	12.7	14.0	15.5	17.0	18.6	20
2265	2647	RPM	747	837	925	1008	1083	1152	1217	1278	1340	1399
		BHP	0.67	0.79	0.93	1.06	1.19	1.31	1.44	1.56	1.70	1.84
		Sones	11.8	12.2	12.6	12.9	13.9	15.2	16.6	18.1	19.8	22
2505	2928	RPM	809	889	971	1048	1122	1190	1254	1314	1370	
		BHP	0.88	1.00	1.15	1.30	1.45	1.59	1.73	1.87	2.00	
		Sones	13.0	13.2	13.5	14.1	15.3	16.6	17.9	19.5	21	
2745	3208	RPM	873	943	1019	1093	1162	1230	1292			
		BHP	1.13	1.26	1.41	1.58	1.75	1.91	2.06			
		Sones	14.5	14.4	14.6	15.6	16.7	18.0	19.5			
2985	3489	RPM	937	1001	1071	1140	1205					
		BHP	1.43	1.56	1.72	1.90	2.08					
		Sones	16.1	15.8	16.2	17.1	18.2					
3225	3769	RPM	1002	1062	1124							
		BHP	1.77	1.92	2.08							
		Sones	17.8	17.4	17.8							

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SFB-15 - Belt Drive





Wheel Diameter = 15 *(381)*
Shaft Diameter = 1 *(25)*
Outlet Area = 1.39 ft^2 *(0.129 m^2)*
Mounting Hole Size = 1/2 *(13)*
^Approximate Unit Weight = 214 lb. *(97 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 12
^Weight shown is largest cataloged Open Drip Proof motor

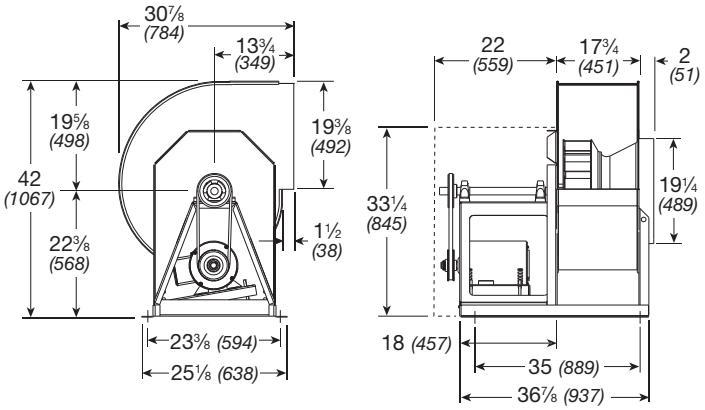
Maximum BHP at given RPM = (RPM/720)^3
(Maximum KW at a given RPM = (RPM/794)^3)
Maximum RPM = 1200 and Minimum RPM = 380
Tip Speed (ft/min.) = RPM x 3.93
(Tip Speed (m/s) = RPM x 0.0200)
Maximum Motor Frame Size = 184T

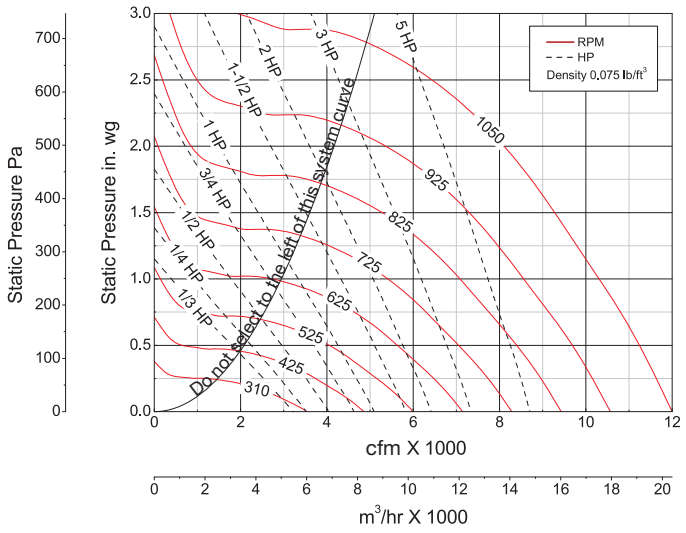
SFB-15

CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.5	2.75
1560	1125	RPM	395	508								
		BHP	0.16	0.25								
		Sones	6.0	8.1								
1860	1342	RPM	421	529	619							
		BHP	0.23	0.33	0.43							
		Sones	7.5	8.8	9.4							
2160	1558	RPM	450	554	638	716						
		BHP	0.32	0.44	0.55	0.67						
		Sones	9.9	9.6	10.3	11.2						
2460	1775	RPM	481	580	663	734	803	865				
		BHP	0.42	0.56	0.70	0.83	0.97	1.09				
		Sones	10.9	10.6	11.4	12.0	13.4	15.2				
2760	1991	RPM	514	608	688	759	822	884	941			
		BHP	0.56	0.71	0.87	1.03	1.17	1.32	1.47			
		Sones	11.5	11.9	12.3	12.8	14.0	15.6	17.2			
3060	2208	RPM	549	637	715	784	846	903	959	1013		
		BHP	0.72	0.89	1.07	1.24	1.41	1.57	1.74	1.90		
		Sones	12.7	13.5	13.2	13.5	14.6	16.0	17.5	19.0		
3360	2424	RPM	585	668	742	810	871	928	980	1031	1128	1174
		BHP	0.91	1.11	1.29	1.49	1.68	1.87	2.04	2.22	2.58	2.75
		Sones	14.1	14.9	14.0	14.1	15.0	16.5	17.9	19.4	22	24
3660	2641	RPM	623	701	772	837	897	953	1005	1053	1147	1192
		BHP	1.14	1.35	1.56	1.76	1.98	2.18	2.39	2.58	2.98	3.17
		Sones	15.9	16.0	14.7	14.7	15.4	17.0	18.6	20	23	24
3960	2857	RPM	662	734	802	865	924	979	1030	1078	1166	
		BHP	1.41	1.63	1.86	2.07	2.31	2.54	2.76	2.98	3.40	
		Sones	17.8	17.3	15.9	15.4	16.3	17.7	19.3	21	23	
4260	3074	RPM	701	768	834	895	951	1005	1056	1103	1191	
		BHP	1.71	1.95	2.20	2.44	2.67	2.93	3.17	3.41	3.88	
		Sones	18.9	18.6	17.2	16.6	17.6	18.9	20	22	24	
4560	3290	RPM	742	804	867	925	980	1032	1082	1129		
		BHP	2.06	2.32	2.59	2.85	3.09	3.35	3.63	3.89		
		Sones	20	19.8	18.8	18.4	19.2	20	22	23		

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SFB-18 - Belt Drive





Wheel Diameter = 18⅛ *(460)*
Shaft Diameter = 1 *(25)*
Outlet Area = 2.29 ft² *(0.213 m²)*
Mounting Hole Size = 1/2 *(13)*
^Approximate Unit Weight = 265 lb. *(120 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 12
^Weight shown is largest cataloged Open Drip Proof motor

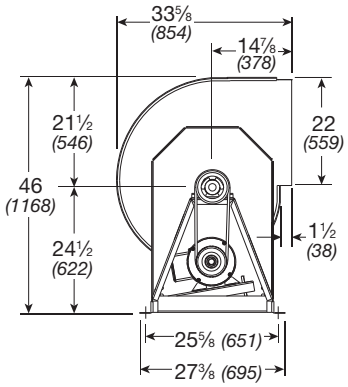
Maximum BHP at given RPM = (RPM/614)³
(Maximum KW at a given RPM = (RPM/677)³)
Maximum RPM = 1050 and Minimum RPM = 310
Tip Speed (ft/min.) = RPM x 4.75
(Tip Speed (m/s) = RPM x 0.0241)
Maximum Motor Frame Size = 184T

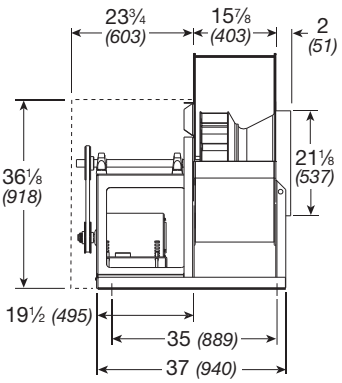
SFB-18

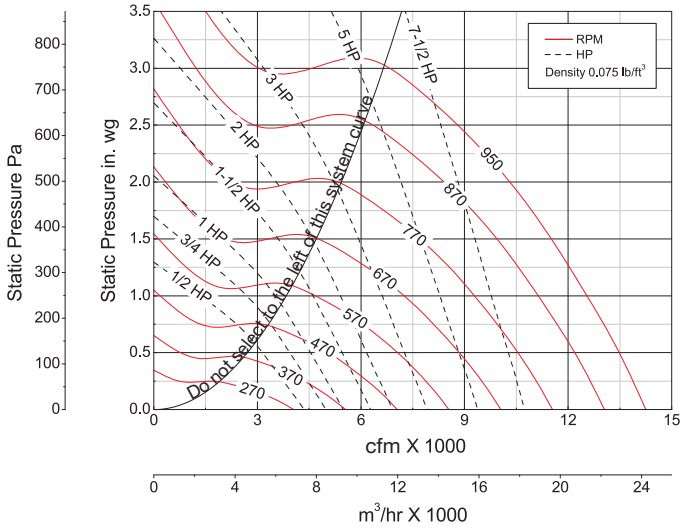
CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5
2725	1188	RPM	364	464	550							
		BHP	0.29	0.44	0.60							
		Sones	8.4	9.2	10.2							
3150	1374	RPM	388	481	563	635						
		BHP	0.39	0.56	0.74	0.93						
		Sones	10.3	10.1	11.2	12.6						
3575	1559	RPM	415	500	578	648	712					
		BHP	0.52	0.70	0.90	1.11	1.33					
		Sones	11.1	11.3	12.2	13.4	15.5					
4000	1744	RPM	444	524	596	662	725	782	836			
		BHP	0.68	0.89	1.10	1.32	1.56	1.80	2.03			
		Sones	12.0	13.1	13.1	14.0	15.8	17.7	19.5			
4425	1930	RPM	473	548	615	680	738	795	848	898	943	
		BHP	0.87	1.09	1.32	1.57	1.81	2.08	2.34	2.60	2.86	
		Sones	13.6	14.7	14.0	14.4	15.9	17.8	19.7	21	23	
4850	2115	RPM	503	573	638	698	756	809	861	910	957	1001
		BHP	1.09	1.34	1.59	1.85	2.12	2.38	2.68	2.97	3.26	3.54
		Sones	15.5	15.8	14.8	14.8	16.2	18.1	20	22	24	25
5275	2300	RPM	534	601	662	719	774	826	875	923	970	1013
		BHP	1.36	1.63	1.90	2.17	2.46	2.75	3.04	3.35	3.67	3.99
		Sones	17.7	17.1	15.6	15.6	16.7	18.7	20	22	24	26
5700	2486	RPM	566	630	687	743	793	844	893	938	982	1026
		BHP	1.67	1.96	2.24	2.55	2.83	3.15	3.47	3.78	4.11	4.46
		Sones	19.2	18.6	16.9	16.6	17.9	19.5	21	23	25	26
6125	2671	RPM	599	660	714	767	817	863	911	956	998	1039
		BHP	2.03	2.34	2.64	2.96	3.28	3.58	3.94	4.28	4.61	4.95
		Sones	20	20	18.5	18.0	19.4	21	22	24	26	27
6550	2857	RPM	631	689	743	791	840	886	929	974	1016	
		BHP	2.43	2.76	3.09	3.41	3.77	4.10	4.43	4.81	5.18	
		Sones	22	21	20	20	21	22	24	26	27	
6975	3042	RPM	664	720	771	818	865	909	951	992	1034	
		BHP	2.88	3.23	3.60	3.93	4.30	4.67	5.02	5.38	5.78	
		Sones	24	23	23	22	23	24	26	27	29	

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SFB-20 - Belt Drive







Wheel Diameter = 20 *(508)*
Shaft Diameter = 1¼ *(32)*
Outlet Area = 2.40 ft² *(0.223 m²)*
Mounting Hole Size = 5/8 *(16)*
^Approximate Unit Weight = 405 lb *(184 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 12
^Weight shown is largest cataloged Open Drip Proof motor

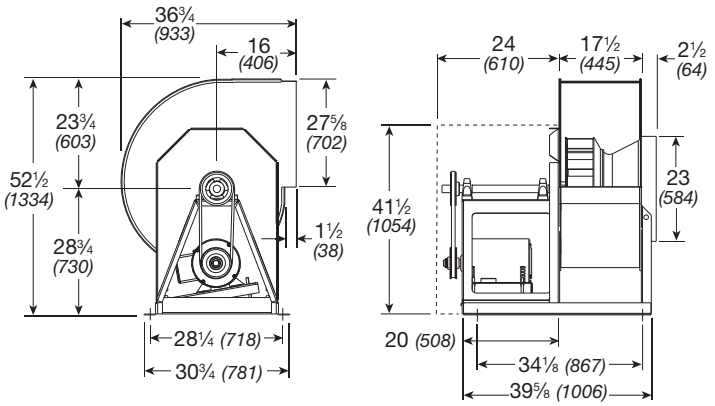
Maximum BHP at given RPM = (RPM/485)³
(Maximum KW at a given RPM = (RPM/535)³)
Maximum RPM = 950 and Minimum RPM = 270
Tip Speed (ft/min.) = RPM x 5.24
(Tip Speed (m/s) = RPM x 0.0266)
Maximum Motor Frame Size = 215T

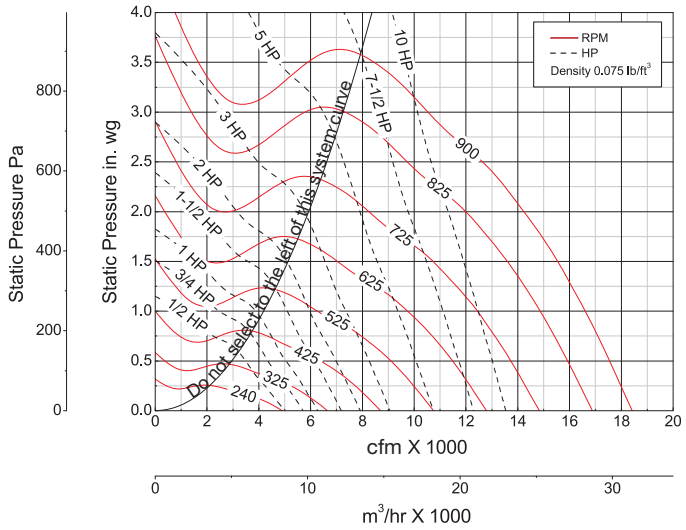
SFB-20

CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.5	2.75
3275	1362	RPM	320	402								
		BHP	0.37	0.53								
		Sones	8.1	9.1								
3800	1581	RPM	343	420	487							
		BHP	0.51	0.70	0.90							
		Sones	10.3	10.1	11.3							
4325	1799	RPM	369	440	503	561	613					
		BHP	0.70	0.90	1.13	1.36	1.61					
		Sones	11.3	11.5	12.6	13.1	14.6					
4850	2018	RPM	396	462	521	576	628	676				
		BHP	0.92	1.15	1.39	1.64	1.91	2.19				
		Sones	12.3	13.4	13.7	13.9	15.0	16.7				
5375	2236	RPM	424	485	542	594	642	689	733			
		BHP	1.19	1.45	1.71	1.99	2.26	2.56	2.87			
		Sones	14.0	15.4	14.7	14.5	15.3	16.9	18.6			
5900	2455	RPM	454	511	564	614	661	704	747	788		
		BHP	1.52	1.80	2.08	2.38	2.68	2.98	3.30	3.64		
		Sones	16.1	16.8	15.5	15.3	15.5	17.3	19.0	21		
6425	2673	RPM	484	537	587	634	679	722	762	801	877	911
		BHP	1.90	2.22	2.52	2.83	3.15	3.49	3.81	4.15	4.89	5.26
		Sones	18.6	18.4	16.8	16.1	16.5	18.0	19.8	21	24	26
6950	2892	RPM	515	565	612	657	700	741	780	818	890	925
		BHP	2.36	2.69	3.02	3.36	3.70	4.04	4.41	4.76	5.51	5.92
		Sones	20	19.8	18.5	17.0	18.0	19.3	21	22	25	26
7475	3110	RPM	546	593	638	681	722	761	799	836	904	938
		BHP	2.88	3.24	3.59	3.95	4.30	4.68	5.05	5.44	6.20	6.61
		Sones	22	21	20	19.2	19.5	21	22	24	27	28
8000	3329	RPM	578	622	665	705	745	782	819	854	922	
		BHP	3.47	3.86	4.24	4.61	5.00	5.38	5.79	6.18	7.02	
		Sones	24	23	22	22	22	23	24	25	29	
8525	3547	RPM	610	652	692	731	769	805	840	875	940	
		BHP	4.14	4.55	4.96	5.37	5.77	6.18	6.59	7.02	7.89	
		Sones	26	24	24	24	24	25	26	28	31	

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SFB-22 - Belt Drive





Wheel Diameter = 22¼ *(565)*
Shaft Diameter = 1¼ *(32)*
Outlet Area = 3.23 ft² *(0.300 m²)*
Mounting Hole Size = 5/8 *(16)*
^Approximate Unit Weight = 540 lb *(245 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 12
^Weight shown is largest cataloged Open Drip Proof motor

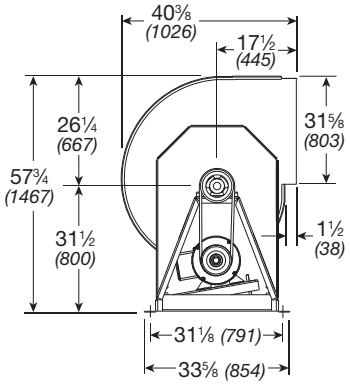
Maximum BHP at given RPM = (RPM/418)³
(Maximum KW at a given RPM = (RPM/461)³)
Maximum RPM = 900 and Minimum RPM = 240
Tip Speed (ft/min.) = RPM x 5.79
(Tip Speed (m/s) = RPM x 0.0294)
Maximum Motor Frame Size = 215T

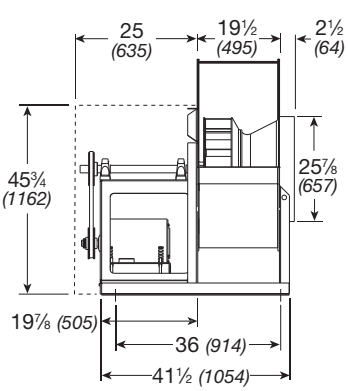
SFB-22

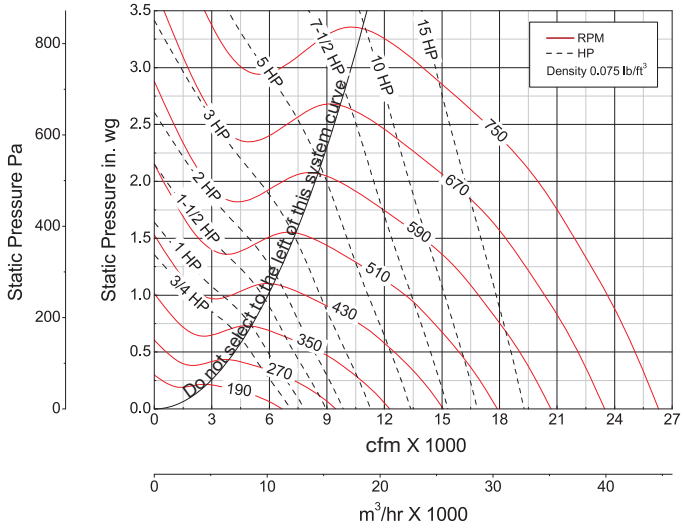
CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	2	2.5	3	3.25
4000	1240	RPM	285	359	419							
		BHP	0.44	0.64	0.83							
		Sones	8.6	10.5	12.8							
4950	1534	RPM	315	385	441	491	535					
		BHP	0.71	0.96	1.20	1.43	1.67					
		Sones	11.3	13	15.4	16.6	18					
5900	1829	RPM	350	410	467	514	557	598				
		BHP	1.09	1.37	1.68	1.96	2.23	2.52				
		Sones	14.1	15.9	17.9	19	20	22				
6850	2123	RPM	388	441	491	540	582	620	691	755		
		BHP	1.60	1.91	2.25	2.61	2.95	3.26	3.92	4.56		
		Sones	17.2	19.3	20	22	23	24	26	29		
7800	2418	RPM	428	475	520	564	608	646	713	776	834	861
		BHP	2.25	2.61	2.98	3.37	3.79	4.17	4.88	5.64	6.38	6.75
		Sones	21	22	23	25	26	28	29	31	34	36
8750	2712	RPM	470	511	552	593	632	671	739	798	854	881
		BHP	3.08	3.47	3.87	4.30	4.75	5.21	6.08	6.87	7.71	8.14
		Sones	24	25	26	28	30	30	32	34	37	39
9700	3007	RPM	512	550	587	624	660	695	764	824	877	
		BHP	4.09	4.53	4.97	5.43	5.90	6.39	7.41	8.35	9.24	
		Sones	27	28	30	31	32	34	36	39	41	
10650	3301	RPM	555	590	623	658	691	724	789	850		
		BHP	5.33	5.80	6.27	6.77	7.28	7.79	8.90	10		
		Sones	30	32	34	35	36	37	40	43		
11600	3596	RPM	599	631	662	693	724	755	813	874		
		BHP	6.79	7.30	7.83	8.34	8.88	9.44	10.54	11.82		
		Sones	34	37	38	38	39	41	44	47		
12550	3890	RPM	643	672	701	730	759	788	844	898		
		BHP	8.51	9.04	9.62	10.17	10.76	11.33	12.56	13.8		
		Sones	38	40	42	42	43	45	48	52		
13500	4185	RPM	688	714	742	768	794	822	875			
		BHP	10.5	11.1	11.7	12.3	12.9	13.5	14.8			
		Sones	42	44	46	47	48	49	53			

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SFB-25 - Belt Drive







Wheel Diameter = 25 *(635)*
Shaft Diameter = 1½ *(38)*
Outlet Area = 4.21 ft^2 *(0.391 m^2)*
Mounting Hole Size = 5/8 *(16)*
^Approximate Unit Weight = 700 lb. *(318 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 12
^Weight shown is largest cataloged Open Drip Proof motor

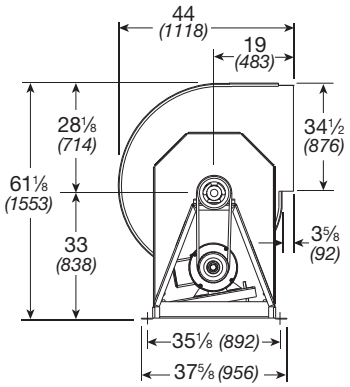
Maximum BHP at given RPM = (RPM/304)^3
(Maximum KW at a given RPM = (RPM/335)^3)
Maximum RPM = 750 and Minimum RPM = 190
Tip Speed (ft/min.) = RPM x 6.54
(Tip Speed (m/s) = RPM x 0.0332)
Maximum Motor Frame Size = 284T

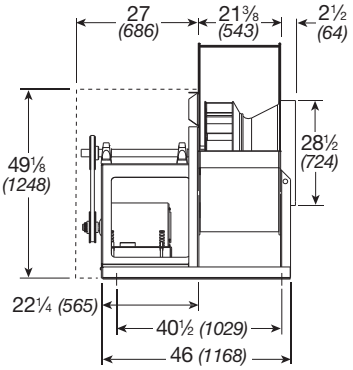
SFB-25

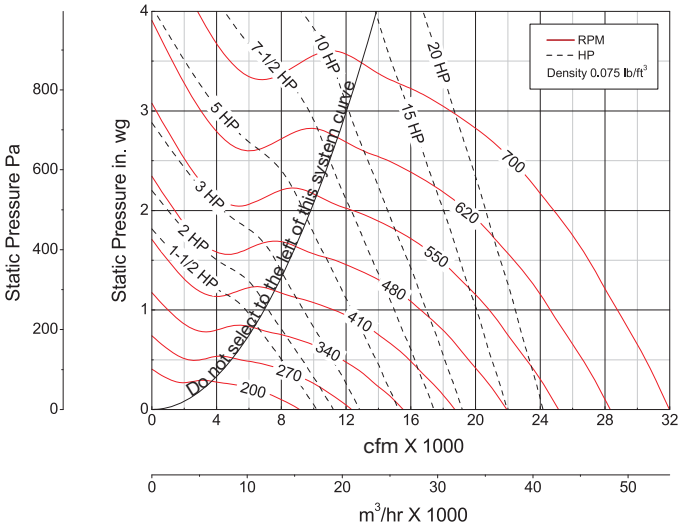
CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	2	2.5	3	3.25
6000	1425	RPM	246	310	363	412						
		BHP	0.74	1.03	1.32	1.65						
		Sones	8.4	10.4	12.5	14.5						
6950	1651	RPM	263	324	375	419	463					
		BHP	1.02	1.37	1.72	2.05	2.42					
		Sones	10.3	11.9	14.3	15.8	17.3					
7900	1877	RPM	283	338	387	431	470	508				
		BHP	1.39	1.78	2.17	2.57	2.95	3.34				
		Sones	12.1	13.7	16.2	17.3	18.6	20				
8850	2103	RPM	304	354	401	444	482	518	585			
		BHP	1.85	2.29	2.73	3.15	3.61	4.03	4.93			
		Sones	14.1	15.7	17.9	19.0	20	22	25			
9800	2329	RPM	326	372	416	457	495	530	593	654		
		BHP	2.40	2.87	3.36	3.86	4.32	4.83	5.76	6.81		
		Sones	16.1	18.0	19.6	21	22	23	26	29		
10750	2554	RPM	349	391	432	471	508	542	605	660	716	743
		BHP	3.07	3.58	4.12	4.65	5.19	5.70	6.79	7.78	8.96	9.57
		Sones	18.4	20	21	23	24	25	27	30	33	35
11700	2780	RPM	373	412	450	487	522	556	617	672	722	748
		BHP	3.86	4.42	4.99	5.57	6.16	6.73	7.89	9.05	10.11	10.74
		Sones	21	22	23	25	26	28	29	32	35	36
12650	3006	RPM	397	433	468	504	537	569	629	684	734	
		BHP	4.78	5.37	5.96	6.62	7.22	7.88	9.07	10.39	11.62	
		Sones	23	24	25	27	28	30	32	34	36	
13600	3232	RPM	421	455	488	521	553	584	643	696	746	
		BHP	5.84	6.46	7.13	7.79	8.48	9.13	10.51	11.82	13.21	
		Sones	25	26	27	29	31	32	34	36	39	
14550	3457	RPM	445	478	510	539	570	600	657	709		
		BHP	7.04	7.72	8.43	9.09	9.86	10.58	12.04	13.43		
		Sones	27	29	30	31	33	34	36	39		
15500	3683	RPM	471	501	531	559	588	617	671	723		
		BHP	8.43	9.15	9.88	10.62	11.37	12.18	13.68	15.26		
		Sones	29	31	33	34	35	36	39	42		

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SFB-27 - Belt Drive







Wheel Diameter = 27½ *(699)*
Shaft Diameter = 1½ *(38)*
Outlet Area = 4.97 ft² *(0.462 m²)*
Mounting Hole Size = 5/8 *(16)*
^Approximate Unit Weight = 845 lb. *(383 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 12
^Weight shown is largest cataloged Open Drip Proof motor

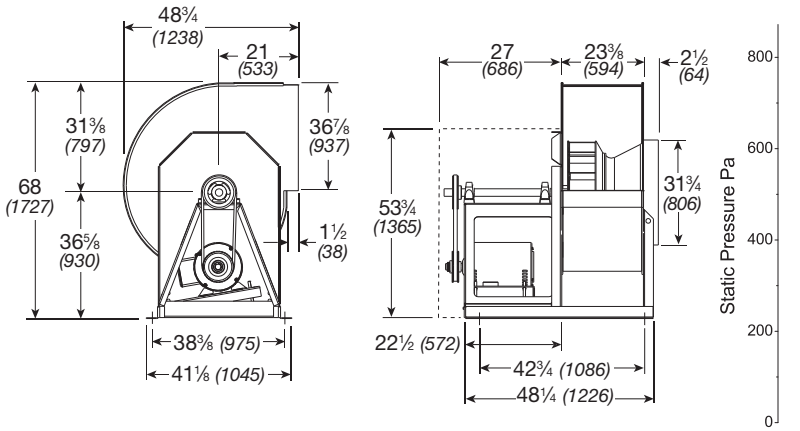
Maximum BHP at given RPM = (RPM/285)³
(Maximum KW at a given RPM = (RPM/314)³)
Maximum RPM = 700 and Minimum RPM = 200
Tip Speed (ft/min.) = RPM x 7.20
(Tip Speed (m/s) = RPM x 0.0366)
Maximum Motor Frame Size = 286T

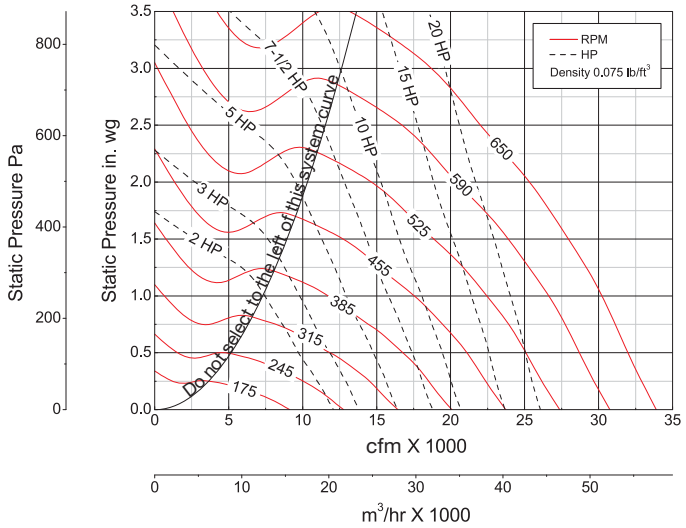
SFB-27

CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	2	2.5	3	3.25
8600	1729	RPM	245	297	345	388	427	462				
		BHP	1.29	1.72	2.17	2.61	3.07	3.56				
		Sones	11.1	12.5	15.1	16.7	18.2	20				
9750	1961	RPM	264	310	355	397	434	470				
		BHP	1.75	2.21	2.71	3.23	3.73	4.26				
		Sones	13.1	14.6	17.0	18.4	19.7	21				
10900	2192	RPM	284	327	368	407	444	477	540			
		BHP	2.31	2.84	3.38	3.94	4.51	5.05	6.24			
		Sones	15.1	16.7	18.9	20	21	23	26			
12050	2423	RPM	305	344	381	419	454	487	547	603	652	
		BHP	3.02	3.58	4.14	4.78	5.39	6.03	7.28	8.58	9.95	
		Sones	17.3	19.2	21	22	23	25	27	30	34	
13200	2655	RPM	327	363	398	432	465	497	556	610	660	683
		BHP	3.85	4.46	5.09	5.73	6.41	7.09	8.45	9.86	11.28	12.04
		Sones	19.8	22	23	24	25	27	29	32	35	37
14350	2886	RPM	349	382	415	447	478	508	566	618	668	691
		BHP	4.83	5.47	6.16	6.83	7.57	8.30	9.80	11.22	12.80	13.58
		Sones	22	24	25	26	28	29	31	33	37	39
15500	3117	RPM	372	403	434	464	491	521	576	628	676	699
		BHP	5.97	6.64	7.40	8.14	8.84	9.68	11.25	12.88	14.41	15.28
		Sones	25	26	27	28	30	32	34	36	39	40
16650	3349	RPM	395	424	453	481	508	535	588	638	685	
		BHP	7.27	8.02	8.80	9.60	10.38	11.17	12.90	14.64	16.36	
		Sones	27	28	29	31	33	34	36	39	41	
17800	3580	RPM	418	446	472	499	525	550	601	648	695	
		BHP	8.76	9.59	10.37	11.24	12.10	12.92	14.74	16.49	18.42	
		Sones	29	31	32	34	35	36	39	41	44	
18950	3811	RPM	441	468	492	518	543	567	614	661		
		BHP	10.40	11.30	12.10	13.10	14.00	14.90	16.70	18.70		
		Sones	32	34	35	37	38	39	41	44		
20100	4043	RPM	465	490	514	538	561	585	629	674		
		BHP	12.40	13.30	14.20	15.10	16.10	17.10	18.90	21.00		
		Sones	34	37	39	39	40	41	44	47		

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SFB-30 - Belt Drive





Wheel Diameter = 30 *(762)*
Shaft Diameter = 1½ *(38)*
Outlet Area = 5.72 ft² *(0.531 m²)*
Mounting Hole Size = 5/8 *(16)*
^Approximate Unit Weight = 940 lb. *(426 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 12
^Weight shown is largest cataloged Open Drip Proof motor

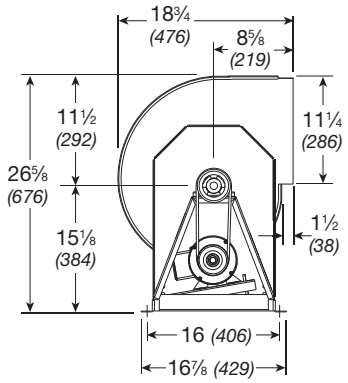
Maximum BHP at given RPM = (RPM/239)³
(Maximum KW at a given RPM = (RPM/263)³)
Maximum RPM = 650 and Minimum RPM = 175
Tip Speed (ft/min.) = RPM x 7.86
(Tip Speed (m/s) = RPM x 0.0399)
Maximum Motor Frame Size = 286T

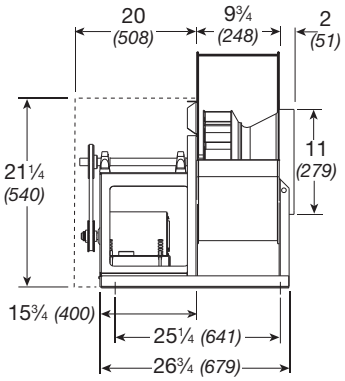
SFB-30

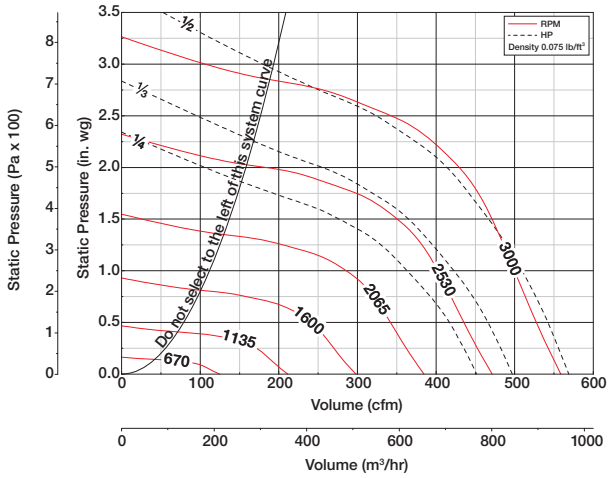
CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	2	2.5	3	3.25
10000	1749	RPM	245	293	332	369	403	434				
		BHP	1.60	2.12	2.59	3.13	3.63	4.19				
		Sones	13.0	15.0	17.3	18.6	20	22				
11525	2015	RPM	267	311	350	383	416	446	501			
		BHP	2.25	2.85	3.44	3.98	4.60	5.19	6.43			
		Sones	15.7	17.9	19.7	21	22	24	27			
13050	2282	RPM	291	330	368	401	430	459	513	562	606	
		BHP	3.10	3.73	4.44	5.09	5.69	6.39	7.73	9.15	10.56	
		Sones	18.7	21	22	24	25	27	29	32	35	
14575	2549	RPM	316	352	387	419	448	474	526	573	617	638
		BHP	4.14	4.85	5.60	6.37	7.10	7.78	9.31	10.79	12.37	13.16
		Sones	22	23	25	27	28	30	31	34	38	40
16100	2816	RPM	342	375	406	437	466	492	539	586	629	649
		BHP	5.42	6.18	6.96	7.84	8.69	9.49	11.02	12.74	14.38	15.20
		Sones	25	26	28	30	32	33	35	37	40	42
17625	3082	RPM	369	399	428	456	484	510	557	600	642	
		BHP	6.98	7.78	8.64	9.51	10.49	11.40	13.12	14.86	16.73	
		Sones	28	29	31	33	35	36	38	41	44	
19150	3349	RPM	397	423	450	477	503	529	575	616		
		BHP	8.82	9.65	10.57	11.50	12.50	13.55	15.51	17.32		
		Sones	31	33	35	36	38	39	42	45		
20675	3616	RPM	424	448	474	499	523	547	593	634		
		BHP	11.00	11.80	12.80	13.80	14.80	15.90	18.10	20.20		
		Sones	35	37	39	40	41	43	46	49		
22200	3883	RPM	452	474	498	521	545	566	612			
		BHP	13.40	14.30	15.40	16.40	17.50	18.60	21.00			
		Sones	39	42	42	43	45	46	50			
23725	4149	RPM	480	501	523	545	567	588	630			
		BHP	16.20	17.20	18.30	19.40	20.60	21.70	24.20			
		Sones	43	45	46	47	49	51	55			
25250	4416	RPM	508	528	548	569	589	610	649			
		BHP	19.40	20.50	21.50	22.80	23.90	25.20	27.70			
		Sones	46	49	51	52	53	55	59			

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-106 - Belt Drive
Series 100







Wheel Diameter = 11⅜ *(289)*
Shaft Diameter = 3/4 *(19)*
Outlet Area = 0.76 ft^2 *(0.07 m^2)*
^Approximate Unit Weight = 135 lb. *(61 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

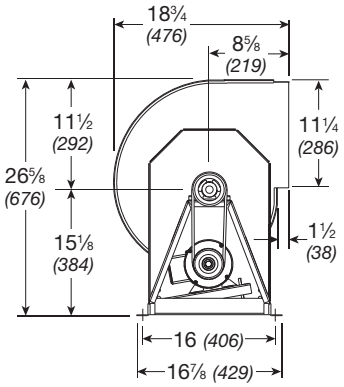
Maximum BHP at a given RPM = (RPM/3706)^3
(Maximum KW at a given RPM = (RPM/4086)^3)
Maximum RPM = 3000
Tip Speed (ft/min.) = RPM x 2.91
(Tip Speed (m/s) = RPM x 0.0148)
Maximum Motor Frame Size = 145T

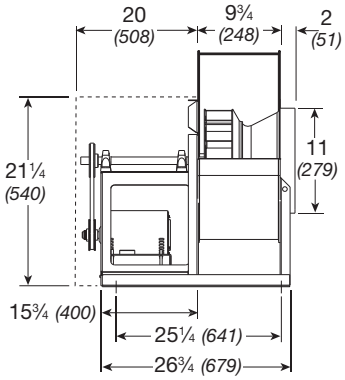
SWB-106

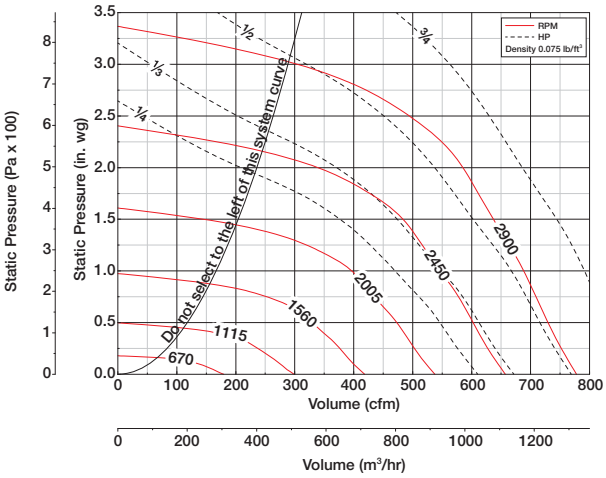
CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5
100	132	RPM	936	1273	1542							
		BHP	0.02	0.04	0.06							
		Sones	5.4	6.8	8.0							
140	184	RPM	1023	1322	1574	1799	1999	2179				
		BHP	0.02	0.04	0.07	0.11	0.14	0.18				
		Sones	6.0	7.1	8.4	9.8	11.5	13.1				
180	237	RPM	1172	1398	1632	1843	2031	2210	2376	2531	2676	2813
		BHP	0.03	0.05	0.08	0.12	0.16	0.20	0.24	0.29	0.34	0.39
		Sones	6.6	7.5	8.9	10.2	11.9	13.4	14.8	16.3	17.9	19.4
220	289	RPM	1356	1522	1712	1906	2088	2257	2413	2561	2706	2844
		BHP	0.05	0.07	0.10	0.13	0.17	0.22	0.26	0.31	0.37	0.42
		Sones	7.2	8.2	9.4	10.9	12.6	13.9	15.2	16.7	18.3	19.8
260	342	RPM	1550	1681	1830	1993	2155	2318	2470	2614	2751	2880
		BHP	0.07	0.09	0.12	0.15	0.19	0.24	0.29	0.34	0.39	0.45
		Sones	8.0	9.0	10.2	11.8	13.2	14.5	15.9	17.4	18.8	20
300	395	RPM	1749	1866	1976	2113	2253	2391	2537	2676	2808	2936
		BHP	0.09	0.12	0.15	0.18	0.22	0.27	0.32	0.37	0.42	0.48
		Sones	9.1	10.1	11.3	12.8	14.0	15.2	16.6	18.0	19.5	21
340	447	RPM	1952	2056	2158	2258	2379	2500	2626	2745	2876	3000
		BHP	0.13	0.15	0.19	0.22	0.26	0.31	0.35	0.41	0.46	0.52
		Sones	10.5	11.5	12.5	13.7	14.9	16.2	17.5	18.7	20	22
380	500	RPM	2156	2253	2344	2434	2524	2633	2736	2852	2963	
		BHP	0.17	0.20	0.23	0.27	0.31	0.35	0.40	0.45	0.51	
		Sones	12.2	12.8	13.7	14.7	16.2	17.4	18.6	19.9	21	
420	553	RPM	2361	2452	2535	2618	2699	2779	2879	2973		
		BHP	0.23	0.26	0.29	0.33	0.37	0.42	0.46	0.51		
		Sones	14.7	14.2	15.1	16.1	17.2	18.8	20	21		
460	605	RPM	2567	2654	2732	2806	2883	2956				
		BHP	0.29	0.32	0.36	0.40	0.44	0.49				
		Sones	17.9	16.2	16.9	17.8	18.9	19.8				
500	658	RPM	2775	2858	2931							
		BHP	0.37	0.40	0.44							
		Sones	22	22	18.9							

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-107 - Belt Drive
Series 100







Wheel Diameter = 11⅜ *(289)*
Shaft Diameter = 3/4 *(19)*
Outlet Area = 0.76 ft² *(0.07 m²)*
^Approximate Unit Weight = 135 lb. *(61 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

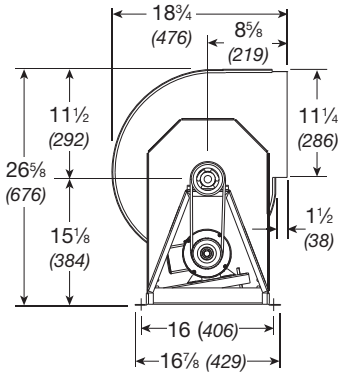
Maximum BHP at a given RPM = (RPM/3706)³
(Maximum KW at a given RPM = (RPM/3851)³)
Maximum RPM = 2900
Tip Speed (ft/min.) = RPM x 2.91
(Tip Speed (m/s) = RPM x 0.0148)
Maximum Motor Frame Size = 145T

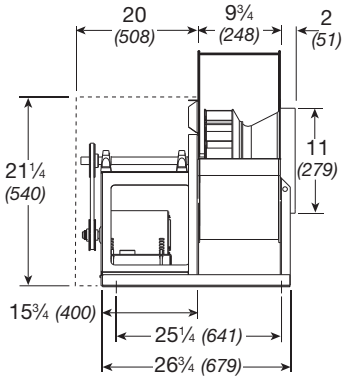
SWB-107

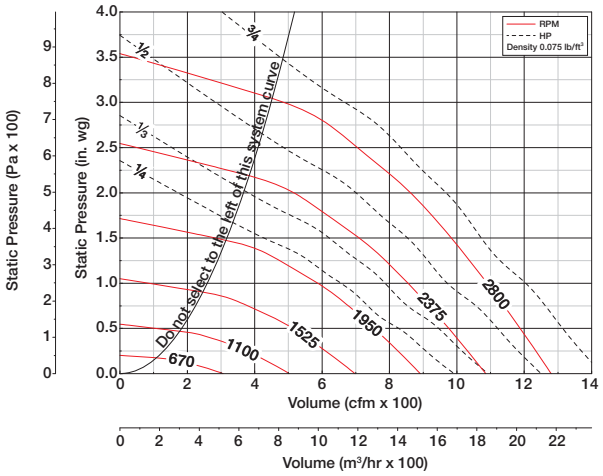
CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5
140	184	RPM	891	1198								
		BHP	0.02	0.04								
		Sones	4.5	5.9								
200	263	RPM	1008	1264	1494	1695	1877					
		BHP	0.02	0.04	0.07	0.10	0.13					
		Sones	5.1	6.2	7.3	8.5	9.8					
260	342	RPM	1184	1374	1572	1759	1931	2088	2239	2380	2512	
		BHP	0.04	0.06	0.09	0.12	0.15	0.19	0.23	0.27	0.32	
		Sones	6.0	6.8	7.7	8.8	10.1	11.3	12.6	13.8	15.2	
320	421	RPM	1372	1531	1686	1848	2005	2156	2299	2432	2559	2684
		BHP	0.06	0.08	0.11	0.14	0.18	0.22	0.26	0.30	0.35	0.40
		Sones	7.3	7.7	8.4	9.5	10.6	11.8	13.0	14.2	15.6	17.0
380	500	RPM	1573	1713	1840	1970	2105	2244	2375	2502	2627	2745
		BHP	0.09	0.11	0.14	0.18	0.21	0.25	0.30	0.34	0.39	0.44
		Sones	8.6	8.9	9.7	10.7	11.6	12.6	13.7	14.9	16.3	17.6
440	579	RPM	1782	1900	2020	2129	2238	2358	2472	2593	2708	2817
		BHP	0.12	0.15	0.19	0.22	0.26	0.30	0.34	0.39	0.44	0.49
		Sones	10.1	10.6	11.3	12.0	12.7	13.7	14.7	15.9	17.2	18.5
500	658	RPM	1994	2096	2205	2308	2404	2493	2601	2705	2805	
		BHP	0.17	0.20	0.24	0.28	0.32	0.36	0.41	0.45	0.50	
		Sones	11.8	12.3	12.9	13.5	14.2	14.9	16.1	17.2	18.3	
560	737	RPM	2208	2302	2394	2492	2583	2669	2751	2838		
		BHP	0.23	0.27	0.30	0.35	0.39	0.44	0.48	0.53		
		Sones	14.1	14.1	14.7	15.5	16.1	16.8	17.5	18.4		
620	816	RPM	2421	2512	2593	2680	2767	2850				
		BHP	0.30	0.34	0.38	0.43	0.48	0.53				
		Sones	16.6	17.0	16.7	17.6	18.5	19.1				
680	895	RPM	2636	2723	2799	2872						
		BHP	0.39	0.44	0.48	0.52						
		Sones	19.5	22	19.0	19.9						
740	974	RPM	2852									
		BHP	0.50									
		Sones	23									

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-108 - Belt Drive
Series 100







Wheel Diameter = 11⅜ *(289)*
Shaft Diameter = 3/4 *(19)*
Outlet Area = 0.76 ft² *(0.07 m²)*
^Approximate Unit Weight = 135 lb. *(61 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

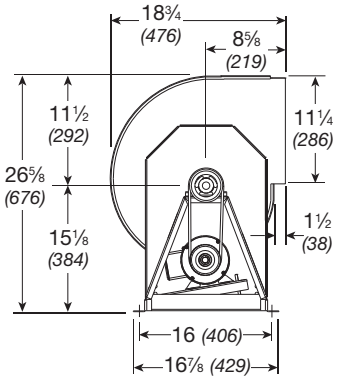
Maximum BHP at a given RPM = (RPM/3233)³
(Maximum KW at a given RPM = (RPM/3564)³)
Maximum RPM = 2800
Tip Speed (ft/min.) = RPM x 2.91
(Tip Speed (m/s) = RPM x 0.0148)
Maximum Motor Frame Size = 145T

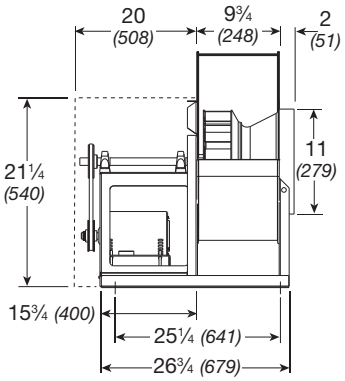
SWB-108

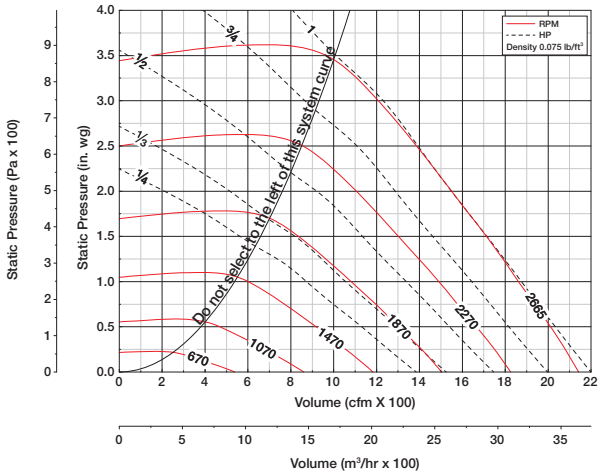
CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5
200	263	RPM	860	1148								
		BHP	0.02	0.04								
		Sones	5.5	6.8								
300	395	RPM	982	1235	1443	1635	1805					
		BHP	0.03	0.05	0.09	0.12	0.16					
		Sones	6.6	7.0	7.7	8.7	9.6					
400	526	RPM	1141	1357	1551	1719	1872	2025	2165	2296	2419	
		BHP	0.04	0.07	0.11	0.15	0.19	0.24	0.29	0.34	0.40	
		Sones	7.2	7.7	8.2	9.0	9.8	10.7	11.5	12.4	13.5	
500	658	RPM	1317	1506	1675	1837	1983	2117	2241	2364	2487	2603
		BHP	0.07	0.10	0.14	0.18	0.23	0.28	0.33	0.39	0.45	0.51
		Sones	8.0	8.6	9.2	9.8	10.5	11.1	12.0	12.9	13.9	14.8
600	789	RPM	1504	1673	1825	1965	2105	2234	2356	2471	2579	2681
		BHP	0.09	0.14	0.18	0.22	0.27	0.32	0.38	0.44	0.50	0.57
		Sones	9.1	9.8	10.5	11.2	11.8	12.3	13.0	13.7	14.6	15.5
700	921	RPM	1699	1849	1989	2119	2242	2361	2478	2589	2695	2796
		BHP	0.13	0.18	0.23	0.28	0.33	0.39	0.44	0.50	0.56	0.63
		Sones	10.3	11.5	12.5	12.9	13.3	13.9	14.6	14.8	15.7	16.6
800	1053	RPM	1899	2035	2162	2282	2396	2507	2610	2715		
		BHP	0.18	0.23	0.29	0.34	0.40	0.46	0.52	0.59		
		Sones	12.1	13.3	13.9	14.5	15.0	15.6	16.2	17.0		
900	1184	RPM	2102	2227	2344	2455	2561	2662	2763			
		BHP	0.24	0.30	0.37	0.43	0.49	0.54	0.61			
		Sones	13.9	14.7	15.5	16.2	16.8	17.4	18.1			
1000	1316	RPM	2308	2423	2531	2634	2733					
		BHP	0.32	0.38	0.45	0.53	0.59					
		Sones	15.6	16.6	17.4	18.2	18.9					
1100	1447	RPM	2517	2623	2723							
		BHP	0.41	0.48	0.55							
		Sones	18.7	18.7	19.7							
1200	1579	RPM	2728									
		BHP	0.52									
		Sones	23									

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-110 - Belt Drive
Series 100







Wheel Diameter = 11⅜ *(289)*
Shaft Diameter = 3/4 *(19)*
Outlet Area = 0.76 ft^2 *(0.07 m^2)*
^Approximate Unit Weight = 135 lb. *(61 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

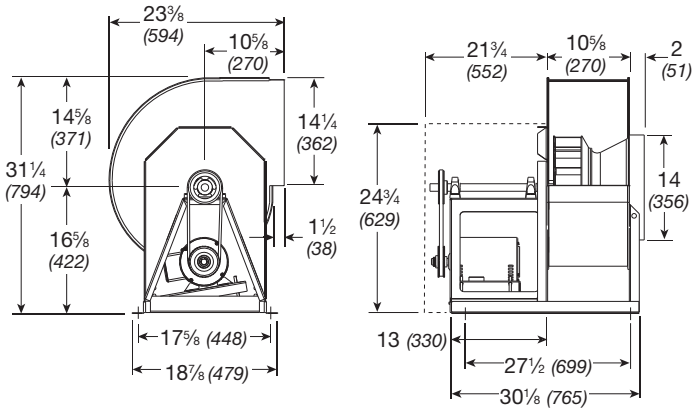
Maximum BHP at a given RPM = (RPM/2665)^3
(Maximum KW at a given RPM = (RPM/2938)^3)
Maximum RPM = 2665
Tip Speed (ft/min.) = RPM x 2.91
(Tip Speed (m/s) = RPM x 0.0148)
Maximum Motor Frame Size = 145T

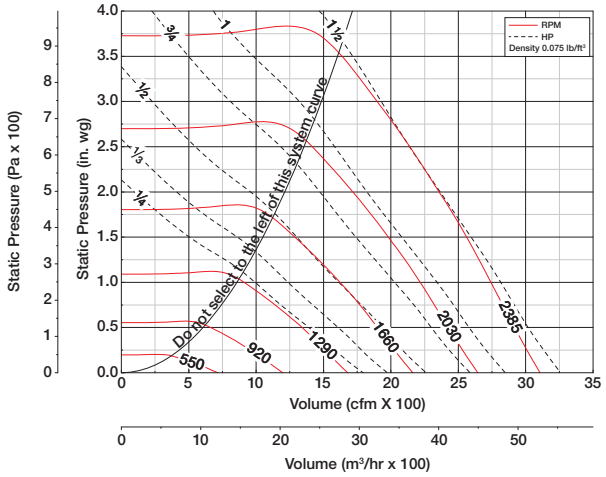
SWB-110

CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5
500	658	RPM	898	1094	1264							
		BHP	0.04	0.07	0.10							
		Sones	8.5	8.8	9.0							
650	855	RPM	1040	1218	1368	1508	1635					
		BHP	0.06	0.10	0.13	0.18	0.23					
		Sones	9.0	9.2	9.4	9.9	10.5					
800	1053	RPM	1192	1356	1496	1621	1735	1849	1955	2054		
		BHP	0.09	0.13	0.18	0.22	0.27	0.33	0.39	0.45		
		Sones	9.7	9.9	10.1	10.9	11.5	11.4	12.1	13.3		
950	1250	RPM	1353	1501	1633	1750	1859	1961	2055	2153	2245	2332
		BHP	0.13	0.18	0.23	0.28	0.34	0.39	0.45	0.52	0.59	0.66
		Sones	10.6	10.9	11.6	12.1	12.1	12.6	13.1	14.0	15.3	16.7
1100	1447	RPM	1519	1653	1776	1888	1991	2088	2179	2267	2349	2433
		BHP	0.18	0.24	0.30	0.36	0.42	0.48	0.54	0.61	0.67	0.75
		Sones	12.0	12.7	13.0	13.4	13.9	14.4	15.0	16.1	17.3	18.6
1250	1645	RPM	1688	1813	1924	2031	2130	2222	2309	2394	2474	2551
		BHP	0.25	0.31	0.37	0.44	0.51	0.58	0.65	0.72	0.79	0.87
		Sones	14.2	14.3	14.8	15.5	16.2	17.0	18.2	19.3	21	21
1400	1842	RPM	1859	1976	2080	2179	2274	2362	2446	2526	2603	
		BHP	0.33	0.40	0.47	0.54	0.62	0.70	0.77	0.85	0.93	
		Sones	16.0	16.3	17.0	17.8	18.9	20	22	23	22	
1550	2039	RPM	2033	2141	2241	2332	2421	2506	2588			
		BHP	0.43	0.51	0.59	0.67	0.75	0.83	0.91			
		Sones	18.3	18.8	19.6	21	22	23	23			
1700	2237	RPM	2211	2310	2404	2491	2573	2654				
		BHP	0.55	0.63	0.72	0.81	0.89	0.98				
		Sones	21	22	23	24	24	24				
1850	2434	RPM	2391	2480	2569	2652						
		BHP	0.69	0.78	0.88	0.97						
		Sones	24	25	25	26						
2000	2632	RPM	2571	2652								
		BHP	0.86	0.96								
		Sones	27	27								

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-113 - Belt Drive
Series 100





Wheel Diameter = 13½ *(343)*
Shaft Diameter = 3/4 *(19)*
Outlet Area = 1.03 ft² *(0.10 m²)*
^Approximate Unit Weight = 175 lb. *(79 kg)*

All dimension in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

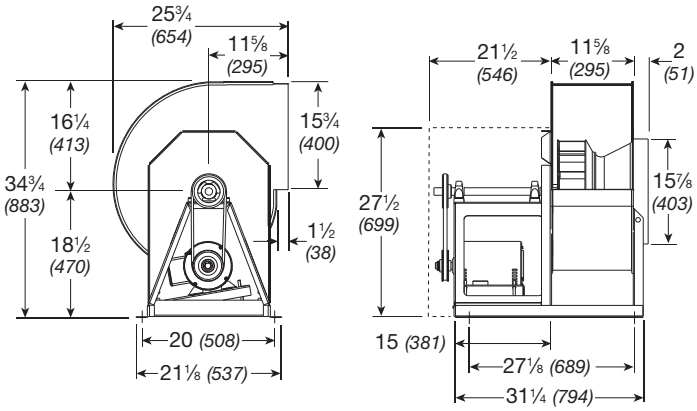
Maximum BHP at a given RPM = (RPM/2084)³
(Maximum KW at a given RPM = (RPM/2298)³)
Maximum RPM = 2385
Tip Speed (ft/min.) = RPM x 3.53
(Tip Speed (m/s) = RPM x 0.0179)
Maximum Motor Frame Size = 184T

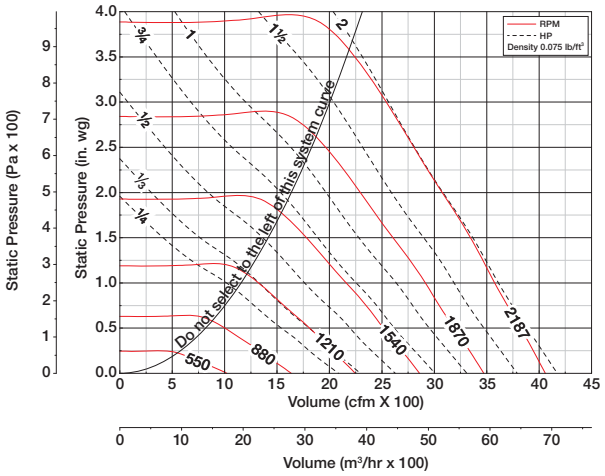
SWB-113

CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5
700	680	RPM	767	939								
		BHP	0.05	0.09								
		Sones	5.4	5.7								
900	874	RPM	883	1037	1168	1291						
		BHP	0.08	0.12	0.17	0.23						
		Sones	6.2	6.9	8.3	9.0						
1100	1068	RPM	1009	1147	1269	1378	1482	1580				
		BHP	0.11	0.17	0.22	0.28	0.35	0.41				
		Sones	7.4	8.5	9.1	9.7	10.2	11.0				
1300	1262	RPM	1144	1266	1378	1480	1576	1665	1753	1837	1916	
		BHP	0.16	0.22	0.29	0.36	0.43	0.50	0.58	0.65	0.73	
		Sones	8.8	9.5	10.1	10.7	11.3	12.0	12.8	13.8	15.1	
1500	1456	RPM	1283	1391	1494	1591	1680	1766	1846	1922	1999	2073
		BHP	0.22	0.29	0.37	0.44	0.52	0.60	0.68	0.77	0.85	0.94
		Sones	10.0	10.8	11.5	12.2	12.9	13.6	14.3	15.2	15.8	16.4
1700	1650	RPM	1424	1524	1617	1706	1792	1872	1948	2023	2093	2161
		BHP	0.30	0.37	0.46	0.55	0.63	0.72	0.81	0.91	1.00	1.09
		Sones	11.9	12.7	13.3	13.9	14.7	15.5	16.2	16.7	17.2	17.8
1900	1845	RPM	1569	1659	1745	1828	1907	1984	2057	2126	2194	2261
		BHP	0.39	0.48	0.57	0.66	0.76	0.86	0.96	1.06	1.16	1.27
		Sones	13.8	14.6	15.3	16.1	16.9	17.4	17.9	18.4	18.9	19.6
2100	2039	RPM	1714	1799	1878	1953	2029	2101	2170	2238	2302	2364
		BHP	0.51	0.60	0.70	0.80	0.91	1.02	1.13	1.24	1.35	1.46
		Sones	15.9	16.8	17.8	18.2	18.7	19.2	19.8	20	21	22
2300	2233	RPM	1860	1940	2014	2085	2153	2222	2288	2352		
		BHP	0.64	0.75	0.85	0.96	1.08	1.19	1.31	1.43		
		Sones	18.1	19.0	19.7	20	21	21	22	23		
2500	2427	RPM	2007	2083	2153	2219	2284	2347				
		BHP	0.80	0.92	1.03	1.15	1.27	1.40				
		Sones	20	21	21	22	23	24				
2700	2621	RPM	2154	2228	2293	2356						
		BHP	0.99	1.12	1.24	1.36						
		Sones	22	23	24	24						

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-115 - Belt Drive
Series 100





Wheel Diameter = 14¾ *(375)*
Shaft Diameter = 3/4 *(19)*
Outlet Area = 1.25 ft² *(0.12 m²)*
^Approximate Unit Weight = 225 lb. *(102 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

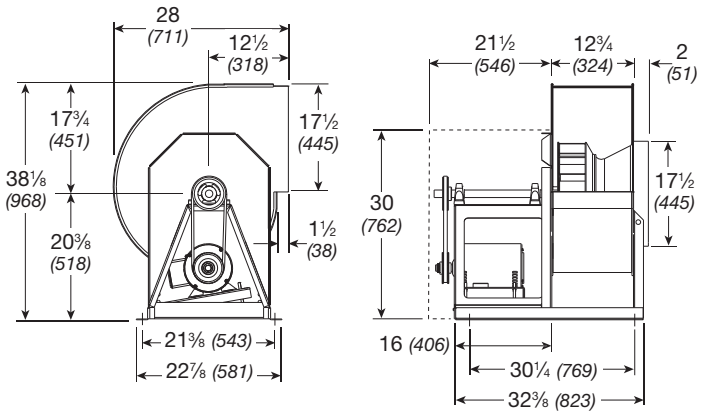
Maximum BHP at a given RPM = (RPM/1737)³
(Maximum KW at a given RPM = (RPM/1915)³)
Maximum RPM = 2187
Tip Speed (ft/min.) = RPM x 3.93
(Tip Speed (m/s) = RPM x 0.0200)
Maximum Motor Frame Size = 184T

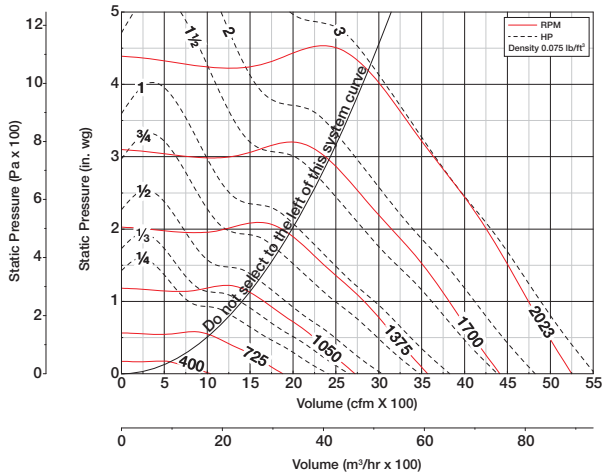
SWB-115

CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5
1000	800	RPM	737	879								
		BHP	0.08	0.13								
		Sones	6.2	6.7								
1250	1000	RPM	843	976	1086	1186						
		BHP	0.11	0.18	0.24	0.31						
		Sones	6.9	7.8	8.4	8.9						
1500	1200	RPM	955	1078	1183	1276	1360	1445				
		BHP	0.16	0.24	0.32	0.39	0.47	0.56				
		Sones	8.2	9.1	9.6	10.1	10.6	11.3				
1750	1400	RPM	1075	1184	1284	1373	1455	1530	1600	1673	1746	
		BHP	0.23	0.31	0.40	0.49	0.58	0.67	0.77	0.87	0.97	
		Sones	9.6	10.3	10.9	11.4	12.0	12.5	13.1	14.1	15.1	
2000	1600	RPM	1196	1294	1389	1474	1552	1625	1695	1759	1821	1883
		BHP	0.32	0.41	0.51	0.61	0.71	0.82	0.92	1.02	1.13	1.24
		Sones	11.1	11.7	12.4	13.0	13.6	14.1	14.7	15.3	16.1	17.1
2250	1800	RPM	1319	1412	1496	1578	1654	1724	1791	1854	1915	1972
		BHP	0.42	0.53	0.63	0.75	0.86	0.98	1.09	1.21	1.32	1.44
		Sones	12.8	13.4	14.0	14.7	15.4	16.0	16.6	17.3	18.0	18.8
2500	2000	RPM	1444	1533	1609	1685	1758	1826	1891	1952	2010	2067
		BHP	0.55	0.67	0.78	0.91	1.03	1.16	1.29	1.42	1.55	1.67
		Sones	14.7	15.4	16.0	16.7	17.5	18.0	18.7	19.4	20	21
2750	2200	RPM	1570	1654	1727	1794	1864	1931	1993	2053	2109	2164
		BHP	0.71	0.84	0.97	1.09	1.23	1.37	1.51	1.65	1.79	1.93
		Sones	16.7	17.6	18.3	18.8	19.4	20	21	22	22	23
3000	2400	RPM	1698	1776	1847	1911	1973	2037	2098	2156		
		BHP	0.89	1.04	1.18	1.31	1.45	1.60	1.76	1.91		
		Sones	19.0	19.9	20	21	22	22	23	24		
3250	2600	RPM	1827	1899	1968	2030	2088	2146				
		BHP	1.11	1.26	1.42	1.57	1.71	1.87				
		Sones	21	22	23	23	24	24				
3500	2800	RPM	1956	2024	2090	2150						
		BHP	1.35	1.52	1.69	1.86						
		Sones	24	25	25	26						

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-116 - Belt Drive
Series 100





Wheel Diameter = 17 *(432)*
Shaft Diameter = 1 *(25)*
Outlet Area = 1.52 ft^2 *(0.14 m^2)*
^Approximate Unit Weight = 241 lb. *(109 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

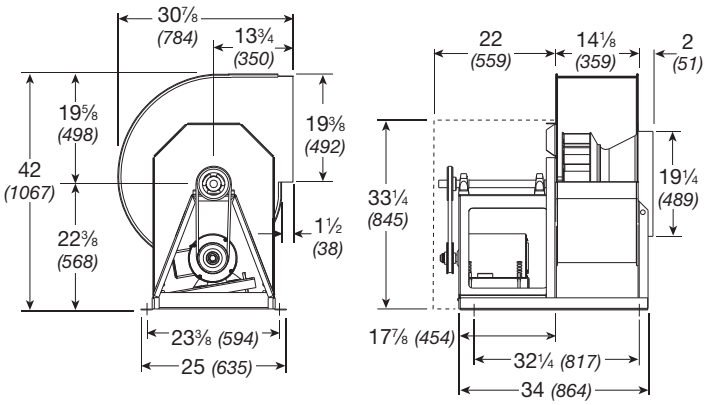
Maximum BHP at a given RPM = (RPM/1403)^3
(Maximum KW at a given RPM = (RPM/1547)^3)
Maximum RPM = 2023
Tip Speed (ft/min.) = RPM x 4.32
(Tip Speed (m/s) = RPM x 0.0219)
Maximum Motor Frame Size = 184T

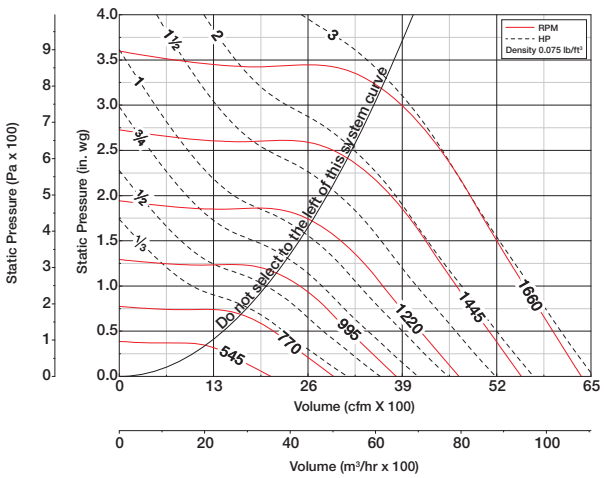
SWB-116

CFM	OV		Static Pressure in Inches wg									
			0.5	0.75	1	1.25	1.5	2	2.5	2.75	3	3.5
1200	789	RPM	750									
		BHP	0.15									
		Sones	5.8									
1560	1026	RPM	846	943	1026							
		BHP	0.22	0.30	0.38							
		Sones	7.1	7.8	8.7							
1920	1263	RPM	949	1039	1120	1192	1259					
		BHP	0.31	0.40	0.50	0.60	0.71					
		Sones	8.8	9.6	10.7	11.5	12.0					
2280	1500	RPM	1061	1141	1216	1287	1352	1470	1576			
		BHP	0.42	0.53	0.65	0.76	0.88	1.12	1.38			
		Sones	10.9	11.8	12.5	12.9	13.3	14.4	16.4			
2640	1737	RPM	1182	1250	1320	1385	1448	1564	1666	1715	1762	1851
		BHP	0.57	0.69	0.82	0.96	1.09	1.36	1.64	1.79	1.93	2.23
		Sones	13.5	13.8	14.1	14.6	15.1	15.9	17.4	18.4	19.5	22
3000	1974	RPM	1306	1369	1429	1490	1548	1659	1761	1808	1853	1940
		BHP	0.76	0.89	1.03	1.18	1.34	1.64	1.95	2.11	2.26	2.59
		Sones	15.4	15.8	16.1	16.6	17.1	18.6	19.9	21	21	22
3360	2211	RPM	1432	1491	1545	1599	1654	1758	1857	1903	1948	
		BHP	0.99	1.14	1.29	1.45	1.62	1.96	2.30	2.47	2.64	
		Sones	17.6	18.0	18.4	18.9	19.6	21	23	23	23	
3720	2447	RPM	1560	1615	1667	1716	1764	1863	1955	2001		
		BHP	1.27	1.43	1.60	1.76	1.94	2.32	2.70	2.89		
		Sones	20	21	21	22	23	24	25	26		
4080	2684	RPM	1690	1742	1790	1837	1881	1971				
		BHP	1.60	1.78	1.96	2.14	2.32	2.72				
		Sones	23	24	25	25	26	27				
4440	2921	RPM	1821	1869	1916	1960	2002					
		BHP	1.99	2.18	2.38	2.58	2.77					
		Sones	27	28	28	29	30					
4800	3158	RPM	1953	1999								
		BHP	2.44	2.65								
		Sones	32	32								

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-118 - Belt Drive
Series 100





Wheel Diameter = 19 *(483)*
Shaft Diameter = 1 *(25)*
Outlet Area = 1.87 ft^2 *(0.17 m^2)*
^Approximate Unit Weight = 312 lb. *(142 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

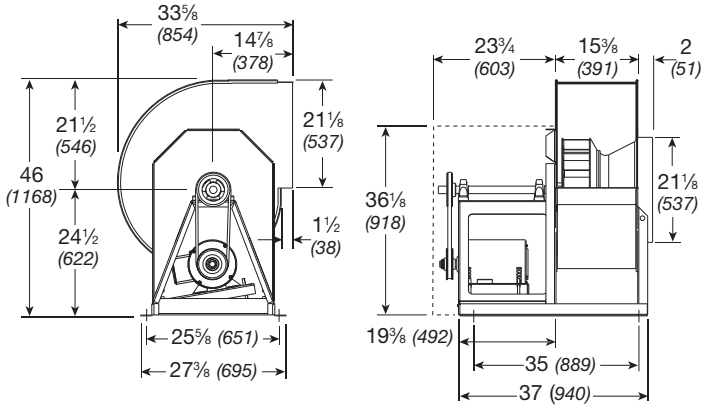
Maximum BHP at a given RPM = (RPM/1150)^3
(Maximum KW at a given RPM = (RPM/1268)^3)
Maximum RPM = 1660
Tip Speed (ft/min.) = RPM x 4.78
(Tip Speed (m/s) = RPM x 0.0243)
Maximum Motor Frame Size = 213T

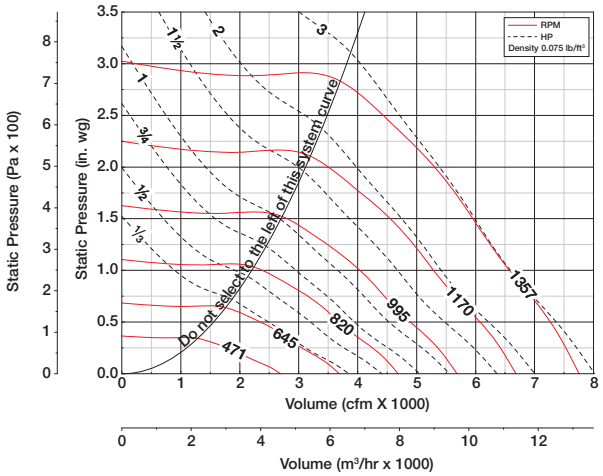
SWB-118

CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5
1500	802	RPM	545	667								
		BHP	0.11	0.19								
		Sones	5.6	6.6								
1900	1016	RPM	628	728	826							
		BHP	0.16	0.25	0.36							
		Sones	6.5	7.2	7.8							
2300	1230	RPM	717	806	887	969	1044					
		BHP	0.24	0.34	0.45	0.58	0.71					
		Sones	7.7	8.2	8.9	9.9	11.2					
2700	1444	RPM	808	892	964	1032	1102	1170	1233			
		BHP	0.34	0.46	0.59	0.71	0.86	1.01	1.17			
		Sones	9.1	9.8	10.5	11.4	12.5	13.3	14.3			
3100	1658	RPM	902	980	1047	1109	1169	1229	1291	1349	1403	
		BHP	0.46	0.61	0.75	0.89	1.04	1.20	1.37	1.55	1.73	
		Sones	10.9	11.7	12.5	13.2	13.9	14.8	16.3	17.0	16.8	
3500	1872	RPM	997	1070	1135	1191	1247	1301	1352	1407	1461	1513
		BHP	0.62	0.78	0.95	1.11	1.27	1.43	1.60	1.79	1.99	2.19
		Sones	13.1	14.1	14.6	15.2	15.8	17.0	17.9	17.5	17.8	18.4
3900	2086	RPM	1095	1162	1223	1279	1329	1379	1428	1475	1521	1572
		BHP	0.82	1.00	1.18	1.36	1.54	1.72	1.90	2.08	2.27	2.49
		Sones	15.5	16.3	16.9	17.6	18.7	18.4	18.5	18.8	19.2	19.7
4300	2299	RPM	1193	1256	1314	1367	1417	1462	1506	1552	1596	1638
		BHP	1.06	1.25	1.45	1.65	1.85	2.04	2.24	2.44	2.64	2.85
		Sones	17.6	18.6	19.7	19.8	20	20	20	20	21	21
4700	2513	RPM	1291	1351	1405	1457	1505	1550	1591	1631		
		BHP	1.34	1.55	1.77	1.98	2.20	2.42	2.63	2.85		
		Sones	20	21	21	21	22	22	23	23		
5100	2727	RPM	1391	1447	1499	1548	1594	1638				
		BHP	1.67	1.90	2.13	2.37	2.60	2.84				
		Sones	22	23	23	23	24	25				
5500	2941	RPM	1491	1544	1593	1640						
		BHP	2.05	2.31	2.55	2.80						
		Sones	24	25	25	25						

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-120 - Belt Drive
Series 100





Wheel Diameter = 21⅝ *(549)*
Shaft Diameter = 1 *(25)*
Outlet Area = 2.23 ft² *(0.21 m²)*
^Approximate Unit Weight = 374 lb. *(170 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

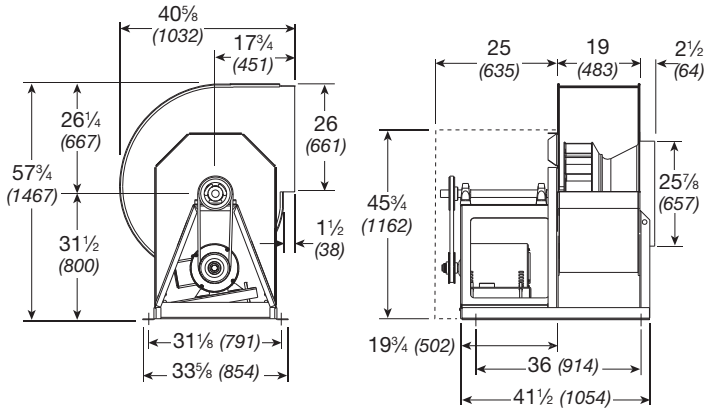
Maximum BHP at a given RPM = (RPM/943)³
(Maximum KW at a given RPM = (RPM/1040)³)
Maximum RPM = 1357
Tip Speed (ft/min.) = RPM x 5.23
(Tip Speed (m/s) = RPM x 0.0266)
Maximum Motor Frame Size = 215T

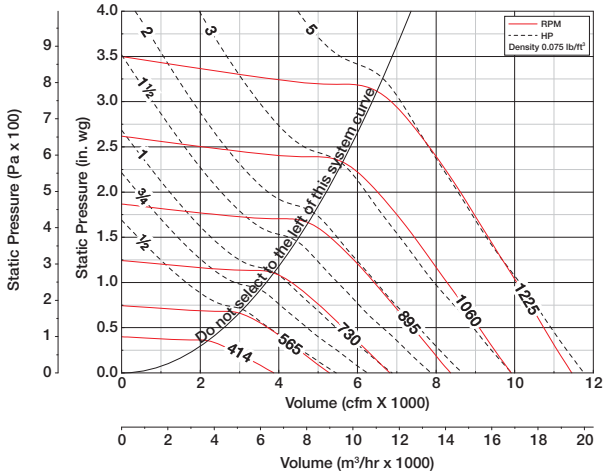
SWB-120

CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5
1800	807	RPM	471	591								
		BHP	0.12	0.22								
		Sones	6.5	6.5								
2250	1009	RPM	528	633	728	811						
		BHP	0.17	0.29	0.42	0.56						
		Sones	6.6	6.7	8.0	9.4						
2700	1211	RPM	593	686	770	850	923	989				
		BHP	0.25	0.38	0.52	0.68	0.84	1.01				
		Sones	7.1	7.3	8.1	9.5	11.2	12.3				
3150	1413	RPM	658	743	820	892	962	1028	1088	1145		
		BHP	0.34	0.49	0.64	0.81	0.99	1.18	1.37	1.57		
		Sones	7.9	8.3	9.1	10.2	11.2	12.4	13.5	14.6		
3600	1614	RPM	723	807	877	943	1006	1068	1128	1184	1237	1287
		BHP	0.45	0.62	0.79	0.98	1.17	1.37	1.58	1.80	2.02	2.24
		Sones	9.0	10.0	10.9	11.6	12.4	13.0	13.7	14.9	16.4	18.0
4050	1816	RPM	791	873	937	999	1057	1113	1169	1223	1276	1326
		BHP	0.59	0.79	0.97	1.17	1.38	1.59	1.82	2.05	2.29	2.53
		Sones	10.7	12.3	13.0	13.4	14.3	15.0	15.1	15.5	16.6	18.2
4500	2018	RPM	861	937	1001	1057	1113	1166	1217	1267	1316	
		BHP	0.75	0.98	1.19	1.40	1.62	1.85	2.09	2.33	2.58	
		Sones	13.1	14.4	15.1	15.3	16.2	16.5	16.4	16.7	17.8	
4950	2220	RPM	931	1002	1067	1121	1171	1222	1270	1316		
		BHP	0.94	1.20	1.45	1.67	1.90	2.15	2.40	2.65		
		Sones	15.9	15.9	16.8	17.4	17.2	17.0	17.2	18.1		
5400	2422	RPM	1003	1069	1132	1186	1234	1280	1327			
		BHP	1.16	1.45	1.73	1.98	2.23	2.48	2.75			
		Sones	17.6	17.8	18.5	18.5	18.1	18.0	18.7			
5850	2623	RPM	1076	1137	1196	1252	1298	1342				
		BHP	1.42	1.74	2.04	2.34	2.60	2.87				
		Sones	19.3	19.8	19.3	19.3	19.7	20				
6300	2825	RPM	1151	1207	1262	1316						
		BHP	1.73	2.06	2.40	2.71						
		Sones	21	21	20	21						

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-124 - Belt Drive
Series 100





Wheel Diameter = 24¾ *(629)*
Shaft Diameter = 1 *(25)*
Outlet Area = 3.40 ft² *(0.32 m²)*
^Approximate Unit Weight = 546 lb. *(248 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

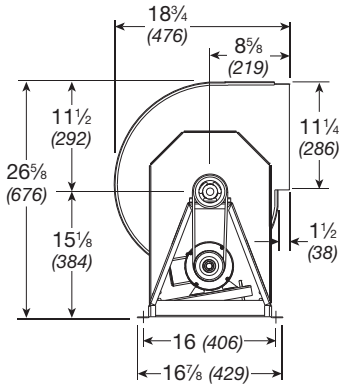
Maximum BHP at a given RPM = (RPM/713)³
(Maximum KW at a given RPM = (RPM/786)³)
Maximum RPM = 1225
Tip Speed (ft/min.) = RPM x 6.41
(Tip Speed (m/s) = RPM x 0.0326)
Maximum Motor Frame Size = 256T

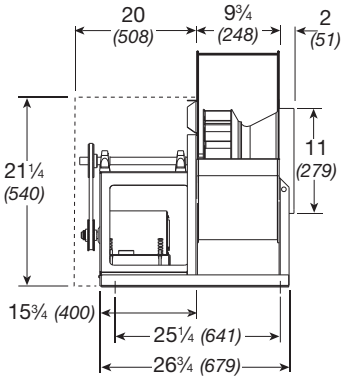
SWB-124

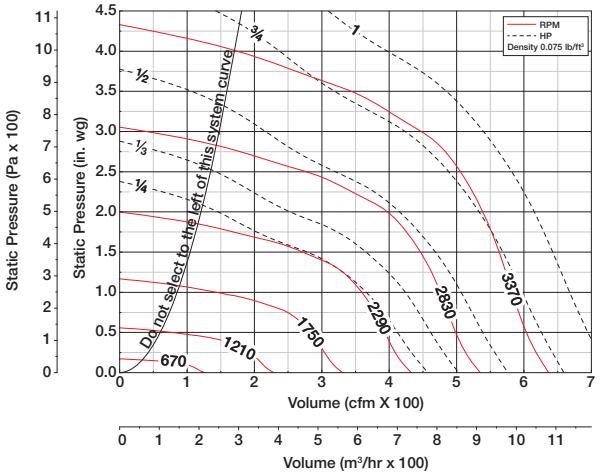
CFM	OV		Static Pressure in Inches wg									
			0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5
2800	824	RPM	413									
		BHP	0.19									
		Sones	4.9									
3400	1000	RPM	464	541								
		BHP	0.27	0.43								
		Sones	6.0	6.9								
4000	1176	RPM	517	588	651							
		BHP	0.38	0.56	0.74							
		Sones	7.5	8.3	9.2							
4600	1353	RPM	572	638	696	751						
		BHP	0.51	0.71	0.92	1.14						
		Sones	9.1	9.8	10.7	11.8						
5200	1529	RPM	629	691	744	795	843					
		BHP	0.66	0.91	1.13	1.37	1.62					
		Sones	11.0	11.6	12.7	14.0	14.4					
5800	1706	RPM	687	745	795	843	888	930				
		BHP	0.86	1.13	1.39	1.64	1.91	2.18				
		Sones	12.9	13.8	15.5	15.6	15.3	15.7				
6400	1882	RPM	746	800	849	893	935	976	1014	1055		
		BHP	1.09	1.38	1.68	1.96	2.24	2.54	2.83	3.15		
		Sones	14.7	16.4	16.8	17.2	17.3	17.6	18.0	18.5		
7000	2059	RPM	806	856	903	945	984	1024	1061	1097	1132	1170
		BHP	1.37	1.68	2.01	2.32	2.63	2.94	3.26	3.59	3.92	4.26
		Sones	16.5	17.6	18.2	19.2	19.8	19.9	20	20	21	21
7600	2235	RPM	867	913	958	999	1037	1073	1109	1144	1177	1209
		BHP	1.69	2.03	2.38	2.74	3.07	3.40	3.74	4.09	4.44	4.79
		Sones	18.0	19.0	19.9	21	22	22	22	23	23	23
8200	2412	RPM	927	971	1013	1053	1090	1125	1158	1192	1224	
		BHP	2.07	2.43	2.80	3.19	3.56	3.92	4.28	4.64	5.02	
		Sones	20	21	22	23	24	25	25	25	25	
8800	2588	RPM	989	1030	1070	1108	1144	1178	1210			
		BHP	2.50	2.88	3.27	3.69	4.11	4.49	4.87			
		Sones	23	23	24	24	25	26	26			

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-206 - Belt Drive
Series 200







Wheel Diameter = 11⅜ *(289)*
Shaft Diameter = 3/4 *(19)*
Outlet Area = 0.63 ft^2 *(0.06 m^2)*
^Approximate Unit Weight = 140 lb. *(64 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

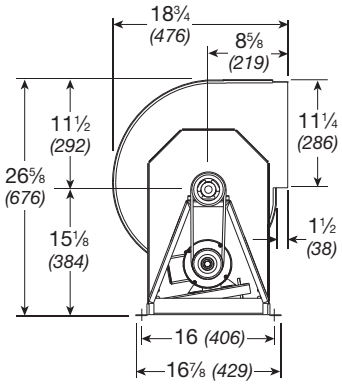
Maximum BHP at a given RPM = (RPM/3629)^3
(Maximum KW at a given RPM = (RPM/4001)^3)
Maximum RPM = 3370
Tip Speed (ft/min.) = RPM x 2.91
(Tip Speed (m/s) = RPM x 0.0148)
Maximum Motor Frame Size = 145T

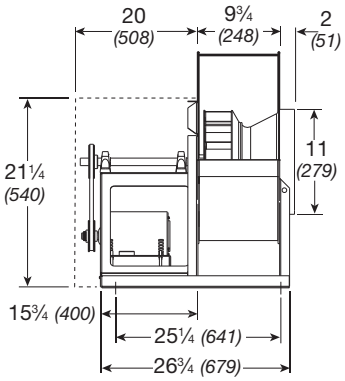
SWB-206

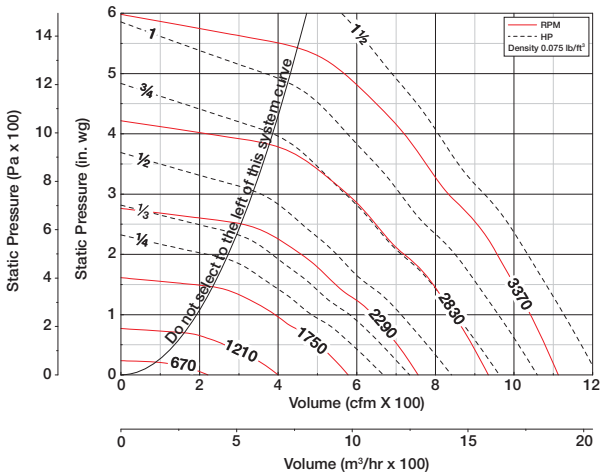
CFM	OV		Static Pressure in Inches wg									
			0.5	1	1.5	1.75	2	2.5	2.75	3	3.5	3.75
70	111	RPM	1201									
		BHP	0.03									
		Sones	6.4									
120	190	RPM	1262	1722	2079	2238						
		BHP	0.04	0.09	0.16	0.20						
		Sones	6.8	9.2	11.9	13.2						
170	270	RPM	1350	1786	2137	2292	2435	2698	2822	2941	3165	3272
		BHP	0.05	0.11	0.19	0.23	0.27	0.35	0.40	0.45	0.56	0.62
		Sones	7.4	9.8	12.5	13.8	15.0	17.8	19.1	20	22	24
220	349	RPM	1489	1868	2203	2355	2497	2760	2881	2997	3216	3319
		BHP	0.07	0.13	0.22	0.26	0.31	0.40	0.45	0.51	0.61	0.67
		Sones	8.0	10.7	13.3	14.5	15.8	18.6	19.7	21	23	24
270	429	RPM	1693	1975	2289	2429	2566	2825	2945	3059	3277	
		BHP	0.10	0.16	0.25	0.29	0.35	0.45	0.51	0.57	0.68	
		Sones	9.0	11.8	14.2	15.3	16.7	19.4	20	22	24	
320	508	RPM	1921	2138	2395	2529	2659	2898	3014	3128	3343	
		BHP	0.14	0.20	0.28	0.33	0.39	0.50	0.56	0.62	0.75	
		Sones	10.5	12.9	15.2	16.5	17.8	20	21	22	25	
370	587	RPM	2169	2341	2540	2643	2767	2998	3108	3213		
		BHP	0.19	0.26	0.34	0.39	0.44	0.55	0.62	0.68		
		Sones	12.1	14.2	16.4	17.6	19.0	21	22	23		
420	667	RPM	2422	2567	2721	2817	2907	3108	3213	3313		
		BHP	0.26	0.33	0.41	0.46	0.51	0.62	0.68	0.74		
		Sones	13.7	15.8	18.1	19.2	20	22	23	24		
470	746	RPM	2678	2802	2943	3010	3087	3252	3330			
		BHP	0.35	0.42	0.51	0.55	0.60	0.71	0.77			
		Sones	15.8	17.7	19.7	21	22	24	24			
520	825	RPM	2936	3051	3170	3234	3296					
		BHP	0.45	0.53	0.62	0.67	0.72					
		Sones	18.5	19.3	21	22	23					
570	905	RPM	3196	3303								
		BHP	0.58	0.67								
		Sones	22	21								

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-207 - Belt Drive
Series 200







Wheel Diameter = 11⅜ *(289)*
Shaft Diameter = 3/4 *(19)*
Outlet Area = 0.63 ft^2 *(0.06 m^2)*
^Approximate Unit Weight = 140 lb. *(64 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

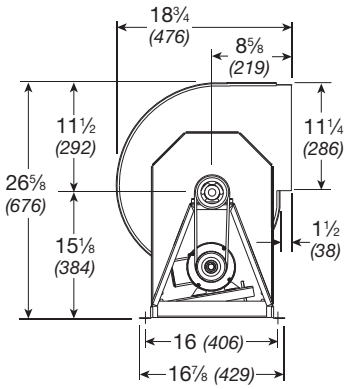
Maximum BHP at a given RPM = (RPM/3099)^3
(Maximum KW at a given RPM = (RPM/3417)^3)
Maximum RPM = 3370
Tip Speed (ft/min.) = RPM x 2.91
(Tip Speed (m/s) = RPM x 0.0148)
Maximum Motor Frame Size = 145T

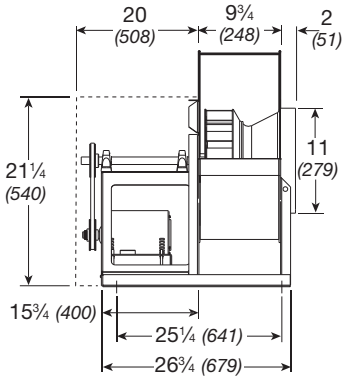
SWB-207

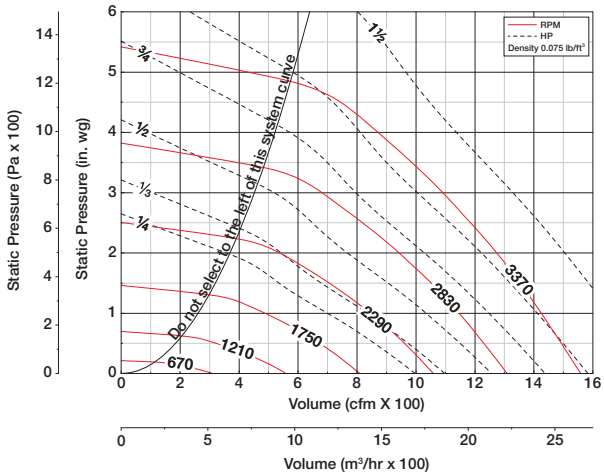
CFM	OV		Static Pressure in Inches wg									
			0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
200	317	RPM	1098	1458								
		BHP	0.04	0.10								
		Sones	6.2	9.1								
280	444	RPM	1244	1549	1808	2060						
		BHP	0.06	0.12	0.19	0.27						
		Sones	7.3	9.7	11.1	13.3						
360	571	RPM	1415	1687	1923	2139	2333	2534				
		BHP	0.09	0.16	0.23	0.32	0.40	0.51				
		Sones	8.5	10.7	12.1	14.1	15.7	17.7				
440	698	RPM	1591	1855	2064	2259	2446	2618	2777	2941	3103	3255
		BHP	0.13	0.21	0.29	0.38	0.48	0.58	0.68	0.80	0.94	1.07
		Sones	10.0	12.4	14.2	15.5	17.4	19.1	21	22	24	25
520	825	RPM	1793	2023	2230	2406	2577	2735	2893	3040	3179	3311
		BHP	0.19	0.28	0.37	0.47	0.57	0.68	0.79	0.91	1.03	1.16
		Sones	12.6	15.0	16.5	17.9	19.5	21	23	24	25	26
600	952	RPM	2007	2195	2404	2574	2725	2878	3021	3158	3295	
		BHP	0.26	0.35	0.47	0.57	0.68	0.80	0.92	1.04	1.17	
		Sones	16.0	17.1	18.9	21	22	24	25	26	27	
680	1079	RPM	2226	2395	2565	2751	2898	3034	3168	3300		
		BHP	0.36	0.45	0.57	0.70	0.81	0.93	1.06	1.20		
		Sones	18.4	19.5	21	23	25	25	26	28		
760	1206	RPM	2449	2600	2751	2911	3075	3208	3332			
		BHP	0.47	0.58	0.69	0.83	0.97	1.11	1.24			
		Sones	22	23	24	26	27	28	29			
840	1333	RPM	2678	2815	2951	3084	3235					
		BHP	0.61	0.73	0.85	0.98	1.13					
		Sones	25	27	27	28	29					
920	1460	RPM	2909	3034	3156	3282						
		BHP	0.78	0.90	1.03	1.17						
		Sones	28	29	30	31						
1000	1587	RPM	3142	3255								
		BHP	0.97	1.11								
		Sones	30	32								

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-208 - Belt Drive
Series 200







Wheel Diameter = 11⅜ *(289)*
Shaft Diameter = 3/4 *(19)*
Outlet Area = 0.63 ft^2 *(0.06 m^2)*
^Approximate Unit Weight = 140 lb. *(64 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

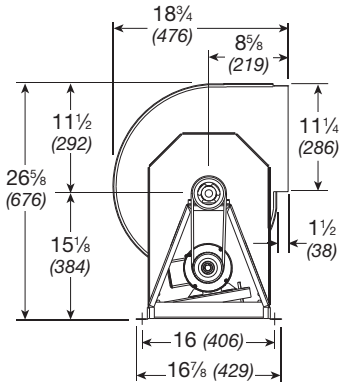
Maximum BHP at a given RPM = (RPM/3242)^3
(Maximum KW at a given RPM = (RPM/3574)^3)
Maximum RPM = 3370
Tip Speed (ft/min.) = RPM x 2.91
(Tip Speed (m/s) = RPM x 0.0148)
Maximum Motor Frame Size = 145T

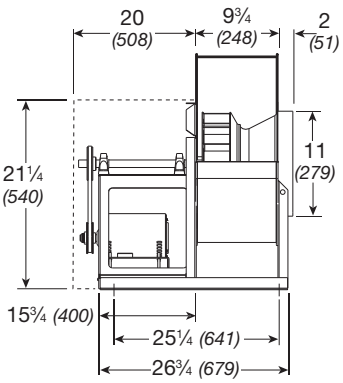
SWB-208

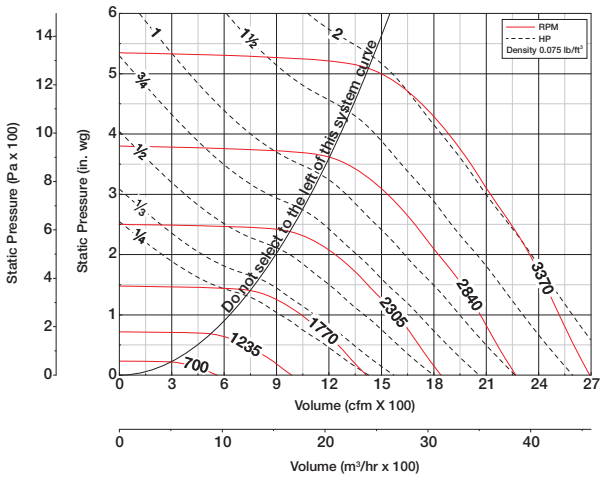
CFM	OV		Static Pressure in Inches wg									
			0.5	0.75	1	1.5	2	2.5	3	3.5	4	4.5
250	397	RPM	1125	1343								
		BHP	0.04	0.06								
		Sones	7.0	8.0								
370	587	RPM	1270	1451	1610	1909	2172					
		BHP	0.06	0.09	0.11	0.18	0.26					
		Sones	7.7	8.3	8.8	10.9	13.2					
490	778	RPM	1445	1606	1753	2014	2240	2472	2681	2874		
		BHP	0.09	0.12	0.16	0.23	0.30	0.39	0.49	0.59		
		Sones	8.6	9.1	9.7	11.4	13.1	15.3	17.6	19.9		
610	968	RPM	1640	1785	1918	2160	2378	2575	2755	2941	3121	3289
		BHP	0.12	0.16	0.21	0.29	0.38	0.47	0.56	0.67	0.79	0.91
		Sones	9.2	10.5	11.3	12.5	14.4	16.2	18.1	21	22	23
730	1159	RPM	1852	1980	2101	2323	2528	2715	2892	3056	3210	3357
		BHP	0.18	0.22	0.27	0.37	0.47	0.57	0.68	0.79	0.90	1.01
		Sones	11.2	12.4	12.9	13.8	14.8	17.8	19.9	22	22	23
850	1349	RPM	2076	2189	2298	2505	2693	2871	3039	3196	3348	
		BHP	0.24	0.29	0.34	0.45	0.57	0.69	0.81	0.93	1.06	
		Sones	13.5	14.1	14.6	15.6	16.5	17.6	18.6	22	23	
970	1540	RPM	2310	2409	2507	2697	2874	3041	3198	3350		
		BHP	0.33	0.38	0.44	0.56	0.69	0.82	0.95	1.09		
		Sones	15.3	16.0	16.6	17.7	18.6	19.5	20	21		
1090	1730	RPM	2548	2637	2725	2896	3065	3222				
		BHP	0.44	0.50	0.56	0.69	0.82	0.97				
		Sones	17.5	18.1	18.8	20	21	21				
1210	1921	RPM	2790	2872	2951	3110	3263					
		BHP	0.57	0.63	0.70	0.84	0.98					
		Sones	19.9	21	21	22	23					
1330	2111	RPM	3035	3111	3184	3329						
		BHP	0.73	0.80	0.87	1.02						
		Sones	22	23	24	25						
1450	2302	RPM	3282	3352								
		BHP	0.91	0.99								
		Sones	26	25								

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-210 - Belt Drive
Series 200







Wheel Diameter = 11⅜ *(289)*
Shaft Diameter = 3/4 *(19)*
Outlet Area = 0.63 ft² *(0.06 m²)*
^Approximate Unit Weight = 140 lb. *(64 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

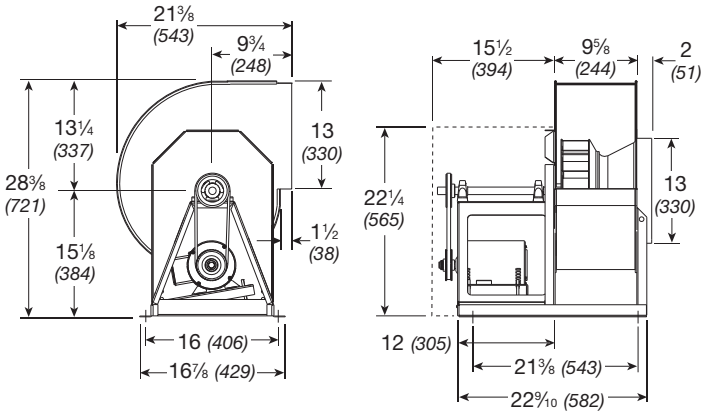
Maximum BHP at a given RPM = (RPM/2649)³
(Maximum KW at a given RPM = (RPM/2921)³)
Maximum RPM = 3370
Tip Speed (ft/min.) = RPM x 2.91
(Tip Speed (m/s) = RPM x 0.0148)
Maximum Motor Frame Size = 145T

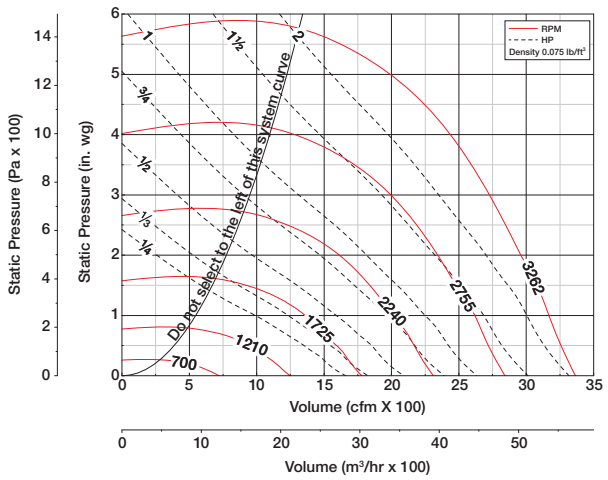
SWB-210

CFM	OV		Static Pressure in Inches wg									
			0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
625	992	RPM	1158	1501	1809							
		BHP	0.08	0.17	0.27							
		Sones	6.3	7.6	9.4							
800	1270	RPM	1311	1583	1846	2106	2334					
		BHP	0.12	0.21	0.31	0.44	0.58					
		Sones	7.4	8.2	9.8	11.9	13.9					
975	1548	RPM	1480	1714	1936	2143	2371	2578	2768			
		BHP	0.17	0.27	0.38	0.50	0.65	0.81	0.97			
		Sones	8.6	9.5	10.7	12.4	14.3	15.4	16.6			
1150	1825	RPM	1661	1872	2063	2250	2431	2615	2805	2982	3148	3305
		BHP	0.24	0.35	0.47	0.60	0.74	0.90	1.07	1.26	1.45	1.65
		Sones	10.0	11.0	12.3	13.9	14.8	15.8	17.1	18.3	19.5	21
1325	2103	RPM	1853	2041	2214	2379	2541	2704	2854	3019	3185	3342
		BHP	0.32	0.45	0.58	0.72	0.87	1.03	1.19	1.38	1.58	1.79
		Sones	11.9	12.9	14.3	15.2	15.9	16.7	17.6	18.8	20	21
1500	2381	RPM	2054	2214	2381	2528	2676	2815	2964	3103	3235	
		BHP	0.43	0.57	0.72	0.87	1.03	1.20	1.37	1.55	1.73	
		Sones	14.0	15.1	16.0	16.6	17.3	18.1	18.8	19.6	21	
1675	2659	RPM	2258	2402	2550	2694	2825	2958	3082	3214	3344	
		BHP	0.56	0.71	0.88	1.05	1.21	1.39	1.58	1.77	1.96	
		Sones	16.5	17.0	17.6	18.3	19.0	19.7	20	21	22	
1850	2937	RPM	2465	2594	2724	2863	2990	3108	3229	3345		
		BHP	0.72	0.89	1.06	1.25	1.43	1.61	1.81	2.01		
		Sones	18.3	18.7	19.3	20	21	21	22	23		
2025	3214	RPM	2674	2793	2913	3034	3159	3274				
		BHP	0.91	1.09	1.28	1.47	1.68	1.88				
		Sones	20	21	21	22	23	23				
2200	3492	RPM	2885	2996	3104	3214	3329					
		BHP	1.13	1.33	1.53	1.73	1.95					
		Sones	22	23	24	24	25					
2375	3770	RPM	3096	3201	3300							
		BHP	1.39	1.60	1.82							
		Sones	25	25	26							

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-212 - Belt Drive
Series 200





Wheel Diameter = 12½ *(318)*
Shaft Diameter = 1 *(25)*
Outlet Area = 0.85 ft² *(0.08 m²)*
^Approximate Unit Weight = 170 lb. *(77 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

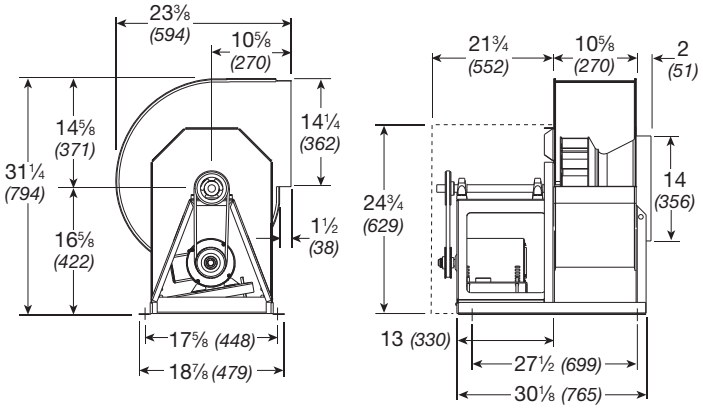
Maximum BHP at a given RPM = (RPM/2372)³
(Maximum KW at a given RPM = (RPM/2615)³)
Maximum RPM = 3262
Tip Speed (ft/min.) = RPM x 3.21
(Tip Speed (m/s) = RPM x 0.0163)
Maximum Motor Frame Size = 145T

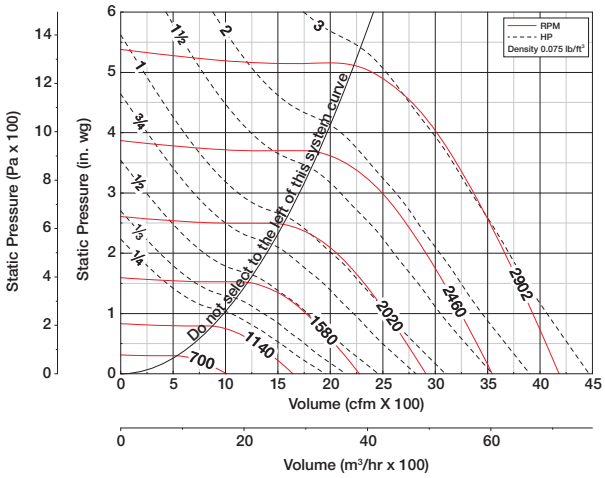
SWB-212

CFM	OV		Static Pressure in Inches wg									
			0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
600	706	RPM	1022	1372								
		BHP	0.08	0.16								
		Sones	6.0	7.9								
850	1000	RPM	1150	1447	1710	1941						
		BHP	0.11	0.21	0.33	0.45						
		Sones	7.2	8.5	10.4	12.7						
1100	1294	RPM	1325	1561	1799	2005	2208	2392	2562	2719		
		BHP	0.17	0.28	0.42	0.56	0.71	0.87	1.03	1.20		
		Sones	8.7	9.8	11.4	13.6	15.2	16.5	17.8	19.0		
1350	1588	RPM	1522	1728	1913	2113	2291	2457	2625	2783	2931	3071
		BHP	0.25	0.38	0.52	0.68	0.85	1.03	1.21	1.40	1.59	1.79
		Sones	10.5	11.7	13.2	14.9	16.0	17.2	18.5	19.8	21	23
1600	1882	RPM	1732	1905	2080	2233	2404	2564	2712	2851	2995	3135
		BHP	0.36	0.51	0.67	0.84	1.02	1.21	1.41	1.62	1.83	2.05
		Sones	12.8	14.0	15.7	16.5	17.4	18.4	19.5	21	22	23
1850	2176	RPM	1947	2104	2255	2403	2538	2679	2825	2962	3091	
		BHP	0.50	0.66	0.84	1.03	1.22	1.43	1.65	1.87	2.10	
		Sones	15.6	16.8	17.6	18.4	19.2	20	21	22	23	
2100	2471	RPM	2177	2312	2443	2578	2708	2830	2944	3076		
		BHP	0.69	0.86	1.05	1.26	1.47	1.69	1.91	2.16		
		Sones	18.4	19.0	19.7	21	21	22	23	24		
2350	2765	RPM	2409	2524	2646	2761	2883	3001	3112			
		BHP	0.92	1.10	1.31	1.53	1.76	2.00	2.24			
		Sones	21	21	22	23	24	25	26			
2600	3059	RPM	2641	2739	2855	2962	3065					
		BHP	1.20	1.39	1.62	1.85	2.10					
		Sones	23	24	25	26	27					
2850	3353	RPM	2874	2968	3067	3169						
		BHP	1.53	1.75	1.98	2.23						
		Sones	27	27	28	29						
3100	3647	RPM	3108	3199								
		BHP	1.91	2.17								
		Sones	30	31								

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-213 - Belt Drive
Series 200





Wheel Diameter = 13¾ *(349)*
Shaft Diameter = 1 *(25)*
Outlet Area = 1.03 ft² *(0.10 m²)*
^Approximate Unit Weight = 183 lb. *(83 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

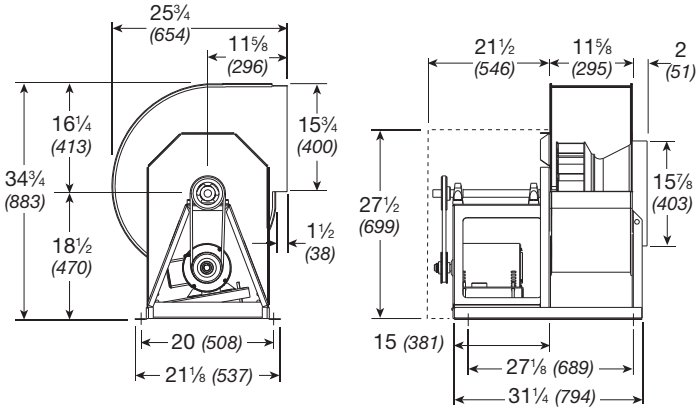
Maximum BHP at a given RPM = (RPM/2002)³
(Maximum KW at a given RPM = (RPM/2207)³)
Maximum RPM = 2902
Tip Speed (ft/min.) = RPM x 3.53
(Tip Speed (m/s) = RPM x 0.0179)
Maximum Motor Frame Size = 184T

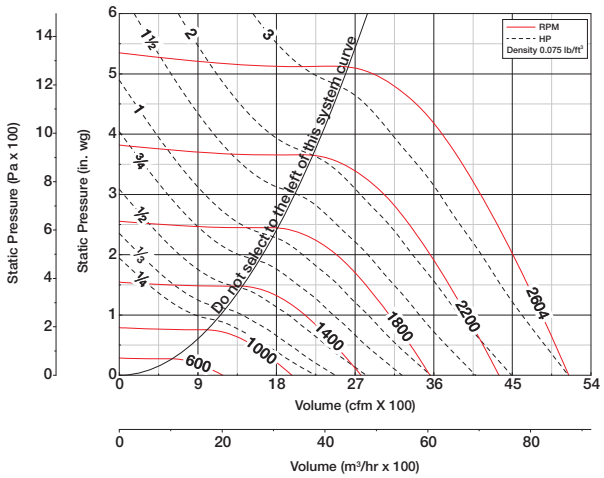
SWB-213

CFM	OV		Static Pressure in Inches wg									
			0.5	0.75	1	1.5	2	2.5	3	3.5	4	4.5
1000	971	RPM	998	1144	1287							
		BHP	0.12	0.18	0.24							
		Sones	6.9	7.5	8.4							
1280	1243	RPM	1134	1248	1358	1585						
		BHP	0.18	0.24	0.31	0.46						
		Sones	8.2	8.7	9.2	11.0						
1560	1515	RPM	1290	1384	1478	1660	1850	2034				
		BHP	0.26	0.33	0.40	0.56	0.74	0.95				
		Sones	9.6	10.2	10.8	12.2	14.2	15.8				
1840	1786	RPM	1457	1540	1619	1778	1931	2093	2249			
		BHP	0.37	0.45	0.53	0.70	0.89	1.10	1.32			
		Sones	11.5	12.0	12.6	14.1	15.5	16.5	17.7			
2120	2058	RPM	1629	1703	1775	1913	2051	2181	2318	2462	2596	2730
		BHP	0.51	0.59	0.69	0.87	1.08	1.29	1.52	1.77	2.03	2.31
		Sones	13.7	14.2	15.0	16.3	17.1	17.9	18.8	19.8	21	23
2400	2330	RPM	1807	1874	1938	2063	2184	2307	2423	2543	2665	2790
		BHP	0.68	0.78	0.88	1.09	1.30	1.53	1.78	2.03	2.29	2.58
		Sones	16.4	17.0	17.3	18.1	18.8	19.7	20	21	22	24
2680	2602	RPM	1987	2048	2107	2222	2332	2440	2550	2656	2758	2869
		BHP	0.89	1.01	1.12	1.34	1.58	1.81	2.07	2.34	2.62	2.90
		Sones	18.8	19.0	19.3	20	21	22	22	23	24	25
2960	2874	RPM	2170	2226	2280	2386	2489	2587	2685	2784	2884	
		BHP	1.14	1.27	1.40	1.64	1.89	2.16	2.42	2.69	2.99	
		Sones	21	21	21	22	23	24	25	26	27	
3240	3146	RPM	2355	2407	2457	2555	2650	2744	2832			
		BHP	1.44	1.58	1.72	1.99	2.26	2.54	2.83			
		Sones	23	23	24	25	25	26	27			
3520	3417	RPM	2541	2589	2636	2727	2816					
		BHP	1.79	1.94	2.10	2.40	2.68					
		Sones	26	26	27	27	28					
3800	3689	RPM	2729	2773	2817							
		BHP	2.19	2.36	2.53							
		Sones	29	30	30							

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-215 - Belt Drive
Series 200





Wheel Diameter = 15¼ *(387)*
Shaft Diameter = 1 *(25)*
Outlet Area = 1.25 ft² *(0.12 m²)*
^Approximate Unit Weight = 231 lb. *(105 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

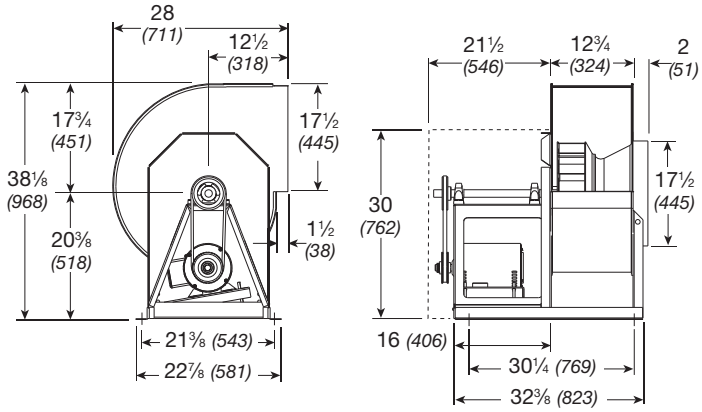
Maximum BHP at a given RPM = (RPM/1679)³
(Maximum KW at a given RPM = (RPM/1851)³)
Maximum RPM = 2604
Tip Speed (ft/min.) = RPM x 3.93
(Tip Speed (m/s) = RPM x 0.0200)
Maximum Motor Frame Size = 184T

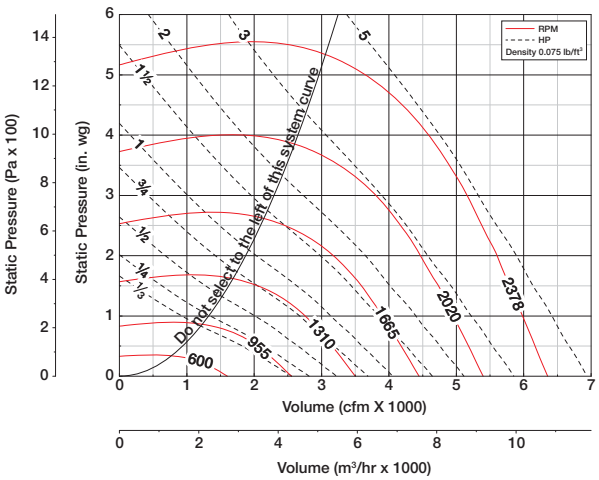
SWB-215

CFM	OV		Static Pressure in Inches wg									
			0.5	0.75	1	1.5	2	2.5	3	3.5	4	4.5
1200	960	RPM	886	1024	1157							
		BHP	0.15	0.21	0.29							
		Sones	6.9	7.5	8.5							
1550	1240	RPM	1009	1112	1214	1421						
		BHP	0.22	0.29	0.37	0.56						
		Sones	8.2	8.7	9.3	11.2						
1900	1520	RPM	1150	1236	1322	1487	1661	1830				
		BHP	0.32	0.40	0.49	0.68	0.91	1.16				
		Sones	9.7	10.2	10.8	12.3	14.4	15.9				
2250	1800	RPM	1301	1377	1449	1593	1732	1879	2020	2165		
		BHP	0.45	0.54	0.64	0.85	1.09	1.34	1.61	1.92		
		Sones	11.5	12.1	12.7	14.2	15.6	16.6	17.9	19.3		
2600	2080	RPM	1458	1525	1591	1715	1840	1958	2083	2213	2333	2456
		BHP	0.62	0.72	0.84	1.07	1.32	1.58	1.86	2.17	2.48	2.83
		Sones	13.8	14.3	15.0	16.3	17.2	18.0	19.0	20	21	23
2950	2360	RPM	1620	1680	1738	1852	1961	2072	2176	2285	2396	
		BHP	0.83	0.96	1.08	1.33	1.59	1.88	2.18	2.49	2.81	
		Sones	16.5	17.0	17.4	18.2	19.0	19.8	21	22	23	
3300	2640	RPM	1785	1839	1893	1996	2095	2193	2293	2388		
		BHP	1.09	1.23	1.37	1.65	1.94	2.23	2.54	2.88		
		Sones	19.0	19.2	19.4	20	21	22	23	24		
3650	2920	RPM	1951	2001	2050	2145	2238	2326	2416			
		BHP	1.41	1.56	1.72	2.02	2.33	2.66	2.98			
		Sones	21	21	22	22	23	24	25			
4000	3200	RPM	2120	2166	2211	2299	2385					
		BHP	1.78	1.95	2.13	2.46	2.79					
		Sones	24	24	24	25	26					
4350	3480	RPM	2290	2332	2374	2456						
		BHP	2.21	2.41	2.60	2.97						
		Sones	26	27	27	28						
4700	3760	RPM	2460	2500								
		BHP	2.72	2.93								
		Sones	30	30								

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-216 - Belt Drive
Series 200





Wheel Diameter = 16¾ *(425)*
Shaft Diameter = 1¼ *(32)*
Outlet Area = 1.52 ft² *(0.14 m²)*
^Approximate Unit Weight = 251 lb. *(114 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

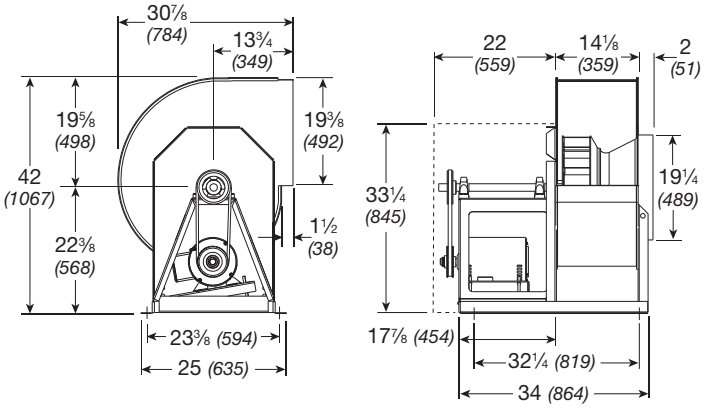
Maximum BHP at a given RPM = (RPM/1414)³
(Maximum KW at a given RPM = (RPM/1559)³)
Maximum RPM = 2378
Tip Speed (ft/min.) = RPM x 4.32
(Tip Speed (m/s) = RPM x 0.0219)
Maximum Motor Frame Size = 184T

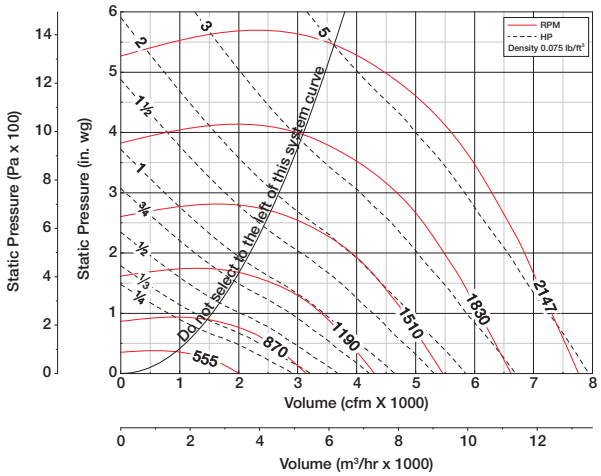
SWB-216

CFM	OV		Static Pressure in Inches wg									
			0.5	0.75	1	1.5	2	2.5	3	3.5	4	4.5
1200	789	RPM	762	900								
		BHP	0.15	0.22								
		Sones	5.9	6.9								
1650	1086	RPM	848	959	1072	1267						
		BHP	0.22	0.31	0.40	0.61						
		Sones	7.1	7.6	8.4	10.4						
2100	1382	RPM	970	1059	1147	1322	1487	1632				
		BHP	0.32	0.42	0.53	0.77	1.03	1.30				
		Sones	8.5	9.0	9.6	11.1	13.3	14.8				
2550	1678	RPM	1109	1182	1255	1400	1543	1687	1818	1939		
		BHP	0.46	0.58	0.70	0.96	1.25	1.56	1.88	2.21		
		Sones	10.1	10.6	11.2	12.7	14.4	15.6	16.8	18.1		
3000	1974	RPM	1256	1320	1381	1505	1629	1749	1874	1994	2106	2211
		BHP	0.65	0.79	0.92	1.20	1.52	1.85	2.20	2.57	2.94	3.33
		Sones	12.2	12.7	13.3	14.7	15.7	16.6	17.6	18.9	20	21
3450	2270	RPM	1410	1462	1520	1626	1734	1841	1949	2050	2162	2267
		BHP	0.90	1.04	1.20	1.51	1.84	2.20	2.57	2.96	3.38	3.80
		Sones	14.6	15.1	15.7	16.6	17.4	18.3	19.2	20	21	22
3900	2566	RPM	1566	1616	1661	1758	1853	1950	2042	2141	2234	2324
		BHP	1.21	1.37	1.53	1.89	2.24	2.61	3.01	3.43	3.86	4.30
		Sones	17.5	17.6	17.9	18.5	19.3	20	21	22	23	24
4350	2862	RPM	1724	1770	1813	1900	1985	2069	2156	2239	2326	
		BHP	1.59	1.78	1.95	2.34	2.73	3.11	3.53	3.97	4.43	
		Sones	19.7	19.9	20	21	21	22	23	24	25	
4800	3158	RPM	1884	1926	1967	2042	2124	2200	2277	2355		
		BHP	2.05	2.25	2.45	2.85	3.29	3.72	4.14	4.60		
		Sones	22	22	23	23	24	25	26	27		
5250	3454	RPM	2046	2084	2123	2194	2265	2338				
		BHP	2.60	2.81	3.04	3.46	3.92	4.41				
		Sones	25	25	25	26	27	28				
5700	3750	RPM	2208	2244	2279	2348						
		BHP	3.25	3.47	3.71	4.19						
		Sones	28	29	29	30						

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-218 - Belt Drive
Series 200





Wheel Diameter = 18⅝ *(473)*
Shaft Diameter = 1¼ *(32)*
Outlet Area = 1.87 ft² *(0.17 m²)*
^Approximate Unit Weight = 324 lb. *(147 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

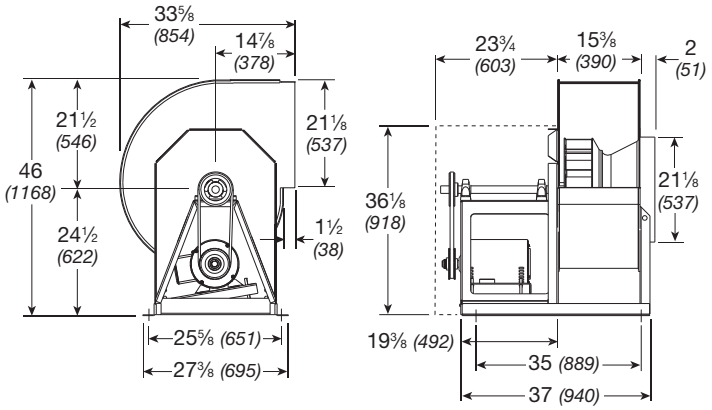
Maximum BHP at a given RPM = (RPM/1196)³
(Maximum KW at a given RPM = (RPM/1319)³)
Maximum RPM = 2147
Tip Speed (ft/min.) = RPM x 4.78
(Tip Speed (m/s) = RPM x 0.0243)
Maximum Motor Frame Size = 213T

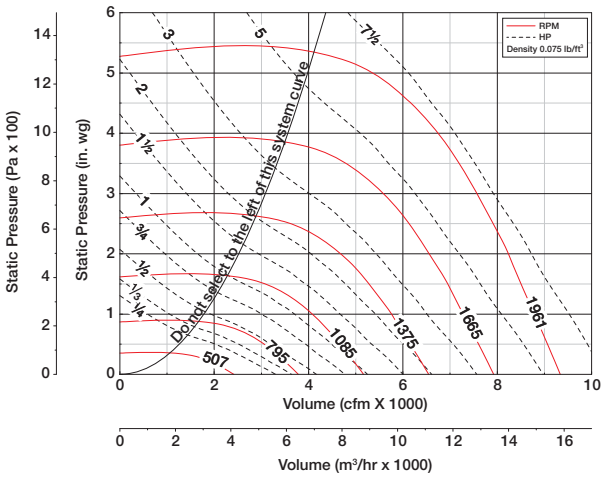
SWB-218

CFM	OV		Static Pressure in Inches wg									
			0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
2000	1070	RPM	762	963	1136							
		BHP	0.26	0.49	0.75							
		Sones	10.1	11.3	13.4							
2500	1337	RPM	862	1023	1185	1330	1459					
		BHP	0.37	0.62	0.92	1.24	1.58					
		Sones	10.1	11.6	13.0	15.2	17.9					
3000	1604	RPM	974	1110	1245	1380	1507	1623	1730			
		BHP	0.52	0.80	1.12	1.47	1.85	2.24	2.65			
		Sones	11.5	12.6	13.9	15.5	18.3	21	24			
3500	1872	RPM	1092	1211	1327	1443	1557	1672	1779	1878	1971	2060
		BHP	0.72	1.03	1.36	1.74	2.15	2.58	3.02	3.48	3.95	4.43
		Sones	13.6	14.2	15.2	16.8	19.1	22	25	27	29	31
4000	2139	RPM	1218	1322	1423	1525	1626	1727	1828	1927	2020	2108
		BHP	0.97	1.32	1.68	2.07	2.51	2.95	3.43	3.93	4.44	4.96
		Sones	15.7	16.4	17.3	18.7	21	23	25	27	29	32
4500	2406	RPM	1346	1438	1530	1619	1709	1800	1890	1979	2069	
		BHP	1.28	1.66	2.07	2.48	2.92	3.41	3.90	4.42	4.96	
		Sones	18.2	18.8	19.6	21	23	24	26	28	30	
5000	2764	RPM	1475	1557	1643	1723	1804	1885	1967	2048		
		BHP	1.66	2.08	2.52	2.97	3.43	3.91	4.45	5.00		
		Sones	21	21	22	24	25	26	28	29		
5500	2941	RPM	1605	1683	1758	1834	1907	1981	2055			
		BHP	2.10	2.58	3.04	3.54	4.03	4.54	5.07			
		Sones	24	24	25	26	27	28	30			
6000	3209	RPM	1737	1810	1877	1949	2017	2084				
		BHP	2.63	3.15	3.65	4.18	4.72	5.25				
		Sones	27	28	28	29	30	31				
6500	3476	RPM	1869	1938	2002	2065	2131					
		BHP	3.26	3.81	4.37	4.91	5.49					
		Sones	31	31	31	32	33					
7000	3743	RPM	2003	2067	2128							
		BHP	3.98	4.57	5.18							
		Sones	34	35	35							

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-220 - Belt Drive
Series 200





Wheel Diameter = 20⅜ *(518)*
Shaft Diameter = 1¼ *(32)*
Outlet Area = 2.23 ft² *(0.21 m²)*
^Approximate Unit Weight = 389 lb. *(176 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

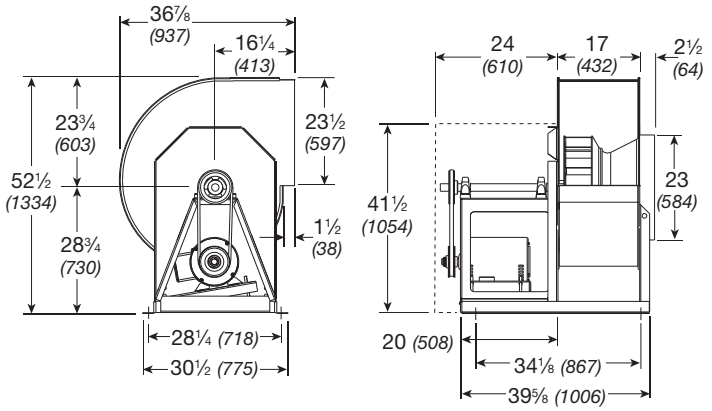
Maximum BHP at a given RPM = (RPM/1027)³
(Maximum KW at a given RPM = (RPM/1132)³)
Maximum RPM = 1961
Tip Speed (ft/min.) = RPM x 5.23
(Tip Speed (m/s) = RPM x 0.0266)
Maximum Motor Frame Size = 215T

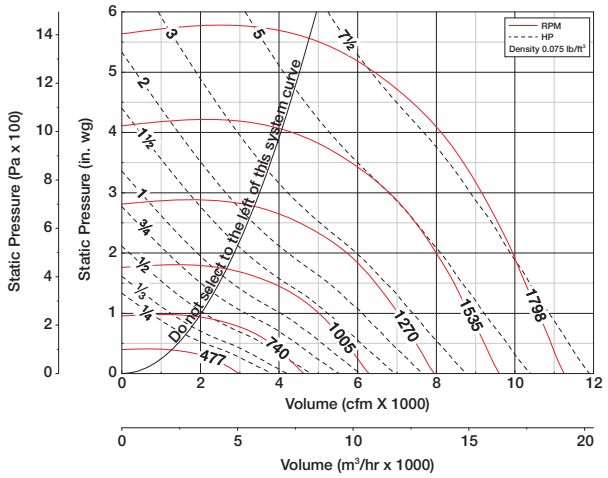
SWB-220

CFM	OV		Static Pressure in Inches wg									
			0.5	1	1.5	2	2.5	3	3.5	4	4.5	4.75
2000	897	RPM	647	860								
		BHP	0.25	0.51								
		Sones	8.7	11.5								
2650	1188	RPM	731	897	1065	1206						
		BHP	0.36	0.65	1.00	1.39						
		Sones	9.2	11.2	13.4	15.9						
3300	1480	RPM	836	970	1104	1243	1367	1480				
		BHP	0.53	0.85	1.21	1.64	2.10	2.58				
		Sones	10.6	12.1	13.5	15.8	19.0	22				
3950	1771	RPM	951	1064	1177	1289	1405	1517	1621	1717	1807	1851
		BHP	0.76	1.11	1.51	1.94	2.43	2.96	3.51	4.08	4.67	4.97
		Sones	13.0	13.7	14.9	16.4	19.4	23	26	28	30	32
4600	2063	RPM	1072	1171	1267	1364	1461	1556	1658	1754	1845	1888
		BHP	1.06	1.46	1.88	2.35	2.85	3.38	3.98	4.60	5.23	5.55
		Sones	15.2	15.8	16.8	18.4	21	23	26	28	31	32
5250	2354	RPM	1198	1285	1370	1454	1539	1624	1708	1792	1882	1925
		BHP	1.44	1.88	2.35	2.84	3.37	3.94	4.52	5.15	5.83	6.18
		Sones	17.8	18.4	19.4	21	23	25	26	28	31	32
5900	2646	RPM	1325	1401	1481	1555	1630	1706	1781	1857	1932	
		BHP	1.90	2.40	2.92	3.45	4.00	4.58	5.23	5.87	6.52	
		Sones	21	21	22	24	25	26	28	30	32	
6550	2937	RPM	1453	1525	1594	1664	1731	1799	1867	1935		
		BHP	2.47	3.04	3.59	4.18	4.76	5.37	6.01	6.70		
		Sones	24	25	25	26	27	29	30	32		
7200	3229	RPM	1583	1650	1711	1777	1840	1900				
		BHP	3.15	3.78	4.37	5.01	5.66	6.30				
		Sones	28	28	28	29	30	32				
7850	3520	RPM	1714	1776	1835	1892	1952					
		BHP	3.97	4.64	5.32	5.96	6.67					
		Sones	31	32	32	33	34					
8500	3812	RPM	1846	1904	1960							
		BHP	4.92	5.63	6.38							
		Sones	36	36	37							

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-222 - Belt Drive
Series 200





Wheel Diameter = 22⅝ *(575)*
Shaft Diameter = 1¼ *(32)*
Outlet Area = 2.74 ft² *(0.25 m²)*
^Approximate Unit Weight = 450 lb. *(204 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

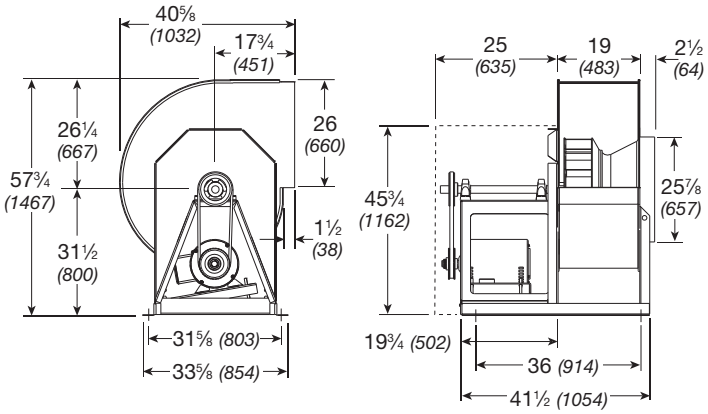
Maximum BHP at a given RPM = (RPM/897)³
(Maximum KW at a given RPM = (RPM/989)³)
Maximum RPM = 1798
Tip Speed (ft/min.) = RPM x 5.82
(Tip Speed (m/s) = RPM x 0.0296)
Maximum Motor Frame Size = 215T

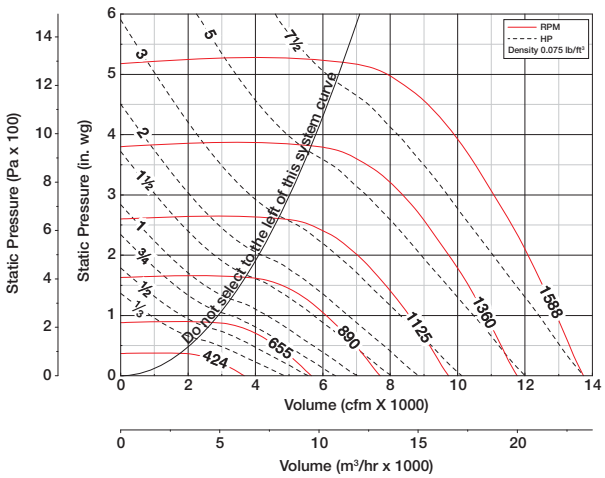
SWB-222

CFM	OV		Static Pressure in Inches wg									
			0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
2500	912	RPM	602	783	949							
		BHP	0.30	0.59	0.93							
		Sones	9.3	11.5	14.3							
3250	1186	RPM	677	831	971	1099	1226					
		BHP	0.43	0.77	1.15	1.56	2.01					
		Sones	9.7	11.5	13.8	16.6	20					
4000	1460	RPM	768	892	1019	1137	1241	1347	1452			
		BHP	0.61	0.99	1.43	1.88	2.36	2.88	3.42			
		Sones	11.2	12.6	14.3	16.8	20	24	27			
4750	1734	RPM	868	975	1080	1186	1289	1383	1470	1556	1648	1735
		BHP	0.86	1.27	1.75	2.27	2.80	3.36	3.92	4.52	5.16	5.82
		Sones	13.6	14.2	15.6	17.7	21	24	27	29	32	35
5500	2007	RPM	976	1065	1158	1249	1339	1432	1518	1598	1674	1746
		BHP	1.18	1.64	2.14	2.70	3.30	3.91	4.54	5.18	5.84	6.51
		Sones	15.8	16.5	17.5	19.5	22	25	27	30	32	35
6250	2281	RPM	1085	1164	1244	1326	1405	1487	1567	1647	1722	1793
		BHP	1.60	2.09	2.64	3.22	3.85	4.53	5.22	5.92	6.63	7.36
		Sones	18.4	19.0	20	22	24	26	28	30	33	35
7000	2555	RPM	1197	1267	1339	1410	1484	1553	1628	1698	1771	
		BHP	2.10	2.66	3.23	3.85	4.52	5.20	5.95	6.73	7.50	
		Sones	21	22	23	25	26	27	29	31	34	
7750	2828	RPM	1310	1376	1439	1503	1568	1635	1698	1764		
		BHP	2.71	3.32	3.95	4.61	5.30	6.03	6.78	7.59		
		Sones	25	25	26	27	28	30	31	33		
8500	3102	RPM	1424	1485	1542	1601	1659	1719	1780			
		BHP	3.43	4.12	4.80	5.47	6.22	6.98	7.78			
		Sones	29	29	29	30	31	32	34			
9250	3376	RPM	1539	1596	1650	1703	1756					
		BHP	4.28	5.04	5.77	6.51	7.25					
		Sones	32	32	33	34	35					
10000	3650	RPM	1655	1708	1760							
		BHP	5.28	6.10	6.87							
		Sones	36	37	37							

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SWB-224 - Belt Drive
Series 200





Wheel Diameter = 24¾ *(629)*
Shaft Diameter = 1½ *(38)*
Outlet Area = 3.40 ft^2 *(0.32 m^2)*
^Approximate Unit Weight = 568 lb. *(258 kg)*

All dimensions in inches *(millimeters)*
For additional discharge positions see page 13
^Weight shown is largest cataloged Open Drip Proof motor

Maximum BHP at a given RPM = (RPM/749)^3
(Maximum KW at a given RPM = (RPM/826)^3)
Maximum RPM = 1588
Tip Speed (ft/min.) = RPM x 6.41
(Tip Speed (m/s) = RPM x 0.0326)
Maximum Motor Frame Size = 256T

SWB-224

CFM	OV		Static Pressure in Inches wg									
			0.5	0.75	1	1.5	2	2.5	3	3.5	4	4.5
3000	882	RPM	526	614	699							
		BHP	0.34	0.51	0.71							
		Sones	7.4	9.1	12.7							
3900	1147	RPM	594	659	726	861						
		BHP	0.50	0.68	0.89	1.37						
		Sones	8.5	9.4	10.4	14.5						
4800	1412	RPM	674	729	783	890	1001	1106				
		BHP	0.71	0.92	1.14	1.64	2.20	2.84				
		Sones	10.0	11.0	11.7	13.2	16.1	18.9				
5700	1676	RPM	760	809	856	945	1036	1126	1221	1309		
		BHP	1.00	1.24	1.49	2.01	2.60	3.22	3.95	4.72		
		Sones	12.4	13.0	13.5	14.7	16.5	19.1	22	25		
6600	1941	RPM	851	894	936	1015	1093	1171	1251	1329	1411	1487
		BHP	1.36	1.64	1.92	2.49	3.11	3.77	4.49	5.24	6.10	6.98
		Sones	14.5	15.2	15.8	17.0	18.2	20	23	25	27	29
7500	2206	RPM	946	982	1020	1093	1162	1230	1300	1369	1438	1508
		BHP	1.82	2.13	2.44	3.09	3.74	4.45	5.19	5.98	6.80	7.65
		Sones	17.1	17.8	18.6	19.7	21	22	24	26	27	29
8400	2471	RPM	1041	1076	1108	1175	1240	1301	1362	1423	1484	
		BHP	2.38	2.73	3.08	3.79	4.51	5.24	6.03	6.85	7.69	
		Sones	20	21	22	23	24	25	25	26	28	
9300	2735	RPM	1139	1170	1200	1261	1320	1378	1433	1489		
		BHP	3.07	3.44	3.83	4.60	5.39	6.20	7.01	7.87		
		Sones	24	25	25	27	27	27	28	28		
10200	3000	RPM	1239	1266	1294	1348	1404	1458	1510			
		BHP	3.89	4.29	4.71	5.55	6.41	7.28	8.16			
		Sones	28	29	29	30	30	30	31			
11100	3265	RPM	1339	1364	1390	1440	1490					
		BHP	4.85	5.28	5.73	6.65	7.57					
		Sones	31	32	32	32	33					
12000	3529	RPM	1440	1463	1486	1534						
		BHP	5.98	6.43	6.90	7.89						
		Sones	34	35	35	36						

Performance certified is for installation Type B - Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

SFD and SFB Specifications

Model SFD Direct Drive Utility Fans

Supply, exhaust or return air fans shall be of the direct drive utility fan type in AMCA Arrangement 4 with a single-width, single-inlet housing, in clockwise or counterclockwise rotation as specified.

The housing shall be constructed of heavy-gauge galvanized steel with lock formed seams permitting no air leakage. The housing shall be easily rotated in the field to any of the eight standard discharge positions. Housing supports and drive frame shall be constructed of heavy-gauge galvanized steel to minimize vibration and rigidly support the motor and wheel.

The fan wheel shall be of the forward-curved type and shall be constructed of heavy-gauge aluminum. Wheels shall be statically and dynamically balanced. The wheel cone and fan inlet cone shall be carefully matched for maximum performance and operating efficiency. Motors shall be heavy-duty ball bearing type matched to the fan load and furnished at the specified voltage, phase and enclosure.

All fans shall bear the AMCA Air Performance seal.

Utility fans shall be model SFD (with forward-curved wheels) as manufactured by Greenheck Fan Corporation of Schofield, Wisconsin, USA.

Model SFB Belt Drive Utility Fans

Supply, exhaust and return air fans shall be of the belt driven utility fan type in AMCA Arrangement 10 with a single-width, single-inlet housing, in clockwise or counterclockwise rotation as specified.

The housing shall be constructed of heavy-gauge steel with airtight lock formed seams. The housing shall be easily rotated in the field to any of the eight standard discharge positions. Housing supports and drive frame shall be constructed of welded steel members to prevent vibration and to rigidly support the shaft and bearings.

Model SFB fan wheels shall be of the forward-curved type, constructed of heavy-gauge steel with uniform stamped steel blades.

Wheels shall be statically and dynamically balanced. The wheel cone and fan inlet cone shall be carefully matched for maximum performance and operating efficiency.

Motors shall be heavy-duty, ball bearing type, matched to the fan load and furnished at the specified voltage, phase and enclosure. The fan shaft shall be ground and polished solid steel mounted in heavy-duty, sealed, pillow block ball bearings. Bearings shall be selected for a minimum L_{10} life in excess of 100,000 hours (L_{50} average of 500,000 hours) at maximum cataloged operating speed. Drives shall be sized for a minimum of 150% of driven horsepower. Pulleys shall be of the fully machined cast iron type, keyed and securely attached to the fan and motor shafts. The motor pulley shall be adjustable for final system balancing.

All fans shall bear the AMCA Air Performance seal.

Utility fans shall be model SFB (with forward-curved wheels) as manufactured by Greenheck Fan Corporation of Schofield, Wisconsin, USA.

SWD and Vari-Green® Motor Specifications

Model SWD Direct Drive Utility Fans

Supply, exhaust, and return air fans shall be of the direct-driven utility fan type in AMCA Arrangement 4 with a single width, single inlet housing, in clockwise or counterclockwise rotation as specified.

The housing shall be constructed of galvanized steel, painted steel, or aluminum with welded or air tight lock formed seams. Housings shall be field rotatable to any of the eight standard discharge positions. Housing supports and drive frame shall be constructed of heavy-gauge galvanized or painted steel to minimize vibration and rigidly support the motor and wheel.

The fan wheel shall be of the non-overloading backward inclined, centrifugal fan type and constructed of heavy-gauge aluminum. Wheels shall be statically and dynamically balanced. The wheel cone and fan inlet cone shall be carefully matched for maximum performance and operating efficiency.

The motor shall be an electronic commutation (EC) type motor specifically designed for fan applications. AC induction type motors are not acceptable. Examples of unacceptable motors are: Shaded Pole, Permanent Split Capacitor (PSC), Split Phase, Capacitor Start and 3 phase induction type motors. Motors shall be permanently lubricated with heavy-duty ball bearings to match the fan load and prewired to the specific voltage and phase. The motor shall be controllable down to 20% of full speed (80% turndown). Speed shall be controlled by either potentiometer dial mounted on the motor or by a 0-10 VDC signal. The motor shall be a minimum of 85% efficient at all speeds.

Fan performance shall be based on tests conducted in accordance with AMCA Standard 210 for air moving devices, and fans shall be licensed to bear the AMCA Certified Ratings Seal for Air Performance.

Utility fans shall be model SWD (with backward inclined wheels) as manufactured by Greenheck Fan Corporation in Schofield, Wisconsin, USA.

Vari-Green® Motor

Motor to be an electronic commutation (EC) motor specifically designed for fan applications. AC induction type motors are not acceptable. Examples of unacceptable motors are: Shaded Pole, Permanent Split Capacitor (PSC), Split Phase, Capacitor Start and 3 phase induction type motors. Motors shall be permanently lubricated with heavy-duty ball bearings to match the fan load and prewired to the specific voltage and phase. Internal motor circuitry shall convert AC power supplied to the fan to DC power to operate the motor. Motor shall be speed controllable down to 20% of full speed (80% turndown). Speed shall be controlled by either a potentiometer dial mounted on the motor or by a 0-10 VDC signal. Motor shall be a minimum of 85% efficient at all speeds.

Vari-Green® Controls

Constant Pressure

Greenheck's Constant Pressure system shall be a complete package designed to regulate fan speed based on demand while maintaining a constant static pressure. System shall include fan with Vari-Green Motor, Vari-Green Constant Pressure control, transformer, and pressure tap. Vari-Green Constant Pressure control shall have the transducer integrated with a touch button control panel. Control shall have a run mode and a program mode preventing unwanted changes when in run mode. Transformer shall be factory-supplied to provide power to the Vari-Green Constant Pressure controller. System shall include a self-sealing aluminum pressure tube with ¼-inch connection. Fan shall be centrifugal direct drive type in upblast, downblast, or inline configuration with controllable EC Vari-Green motor.

Remote Dial

Remote dial shall be a Vari-Green control specifically designed to provide 0-10 VDC signal to Greenheck's Vari-Green Motor.

2-Speed

2-Speed control shall be a Vari-Green Control specifically designed to allow the Vari-Green Motor to operate at two distinct speeds. 2-Speed Control shall include two dials that may be set at any point between 0 and 10 VDC and an integral transformer capable of reducing 115/230 volt AC power to 24 volt AC power.

Model SWB Series 100 and 200 Belt Drive Utility Fans

Supply, exhaust and return air fans shall be of the belt-driven utility fan type in AMCA Arrangement 10 with a single-width, single-inlet housing, in clockwise or counterclockwise rotation as specified.

The housing shall be constructed of heavy-gauge galvanized steel on Series 100 models and includes an airtight lock seam. Series 200 models shall have a heavy-gauge painted steel housing or optional aluminum housing on Series 200. Housing shall have an airtight lock seam or optional welded seam. The housing shall be field rotatable to any of the eight standard discharge positions. To prevent vibration and to rigidly support the shaft and bearings, Series 100 and 200 drive frame and bearing supports shall be constructed of welded steel members coated with Permatector™.

The fan wheel shall be of the non-overloading backward-inclined, centrifugal type. The fan wheel shall be constructed of heavy-gauge aluminum on Series 200 fans sizes 206-210 and all Series 100 fans. Series 200 wheels shall be constructed of heavy-gauge steel with optional aluminum on Series 200 fans size 212 and larger.

Wheels shall be statically and dynamically balanced. The wheel cone and fan inlet cone shall be carefully matched for maximum performance and operating efficiency.

Motors shall be heavy-duty ball bearing type matched to the fan load and furnished at the specified voltage, phase and enclosure. The fan shaft shall be ground and polished solid steel mounted in heavy-duty pillow block ball bearings. Bearings shall be selected for a minimum L_{10} life in excess of 100,000 hours (L_{50} average life of 500,000 hours) at maximum cataloged operating speed. Drives shall be sized for a minimum of 150% of driven horsepower. Pulleys shall be of the fully machined cast iron type, keyed and securely attached to the fan and motor shafts. The motor pulley shall be adjustable for final system balancing for applications with 10 hp or less motors.

All fans shall bear the AMCA Air Performance seal.

Utility fans shall be model SWB (with backward-inclined wheels) as manufactured by Greenheck Fan Corporation in Schofield, Wisconsin, USA.

Series 100

Series 200

Design and Selection Support

Enjoy Greenheck's extraordinary service, before, during and after the sale.

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- Greenheck's free Computer Aided Product Selection program (CAPS), rated by many as the best in the industry, helps you conveniently and efficiently select the right products for the challenge at hand.
- Greenheck has been Green for a long time! Our energy-saving products and ongoing corporate commitment to sustainability can help you qualify for LEED credits.
- Our 3D service allows you to download, at no charge, easy-to-use AutoDesk™ Revit™ 3D drawings for many of our ventilation products.

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Greenheck delivers value to mechanical engineers by helping them solve virtually any air quality challenges their clients face with a comprehensive selection of top quality, innovative air-related equipment. We offer extra value to contractors by providing easy-to-install, competitively priced, reliable products that arrive on time. And building owners and occupants value the energy efficiency, low maintenance and quiet dependable operation they experience long after the construction project ends.

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