

Sidewall Propeller Fans

Belt and Direct Drive

Exhaust, Supply and Reversible



BUILDING VALUE IN AIR.



April
2024

Sidewall propeller fans are ideal for high volumes of air and low pressure requirements. From general ventilation to industrial duty, Greenheck’s range of construction and performance capabilities represents the most comprehensive sidewall propeller fan line in the industry.



- Exhaust or supply arrangements
- Fabricated steel, aluminum or cast aluminum propellers
- Drive frames and panels are constructed to match the level of duty and the motor size
- Three airflow directions: exhaust, supply and reversible
- Both belt drive and direct drive models
- Three levels of construction from commercial to industrial
- Multiple blade designs for low sound and optimum efficiency
- Typical installations include factories, warehouses, data centers and parking garages



Greenheck Fan Corporation certifies that the SB, SBC, and S1 models 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 AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Sidewall Direct Drive, Sidewall Belt Drive, Sidewall Belt Driven Cast and Sidewall Cast models are listed for electrical (UL/cUL 705) File no. E40001

*UL is optional and must be specified

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Model Comparison																												
Models S, SB and SBC	Available Size Range (inches)	Location		Mounting				Airflow				Application				Drive Type		Propeller (blade) Type				Performance						
		Outdoor	Indoor	Roof Curb	Base/Floor	Hanging	Wall	Ceiling Mounted	Exhaust	Supply	Reversible	Recirculate	General/Clean Air	Contaminated Air	Spark Resistant	Grease (UL/cUL 705)	Smoke Control (UL)	High Wind	High Temp (above 200°F)	Seismic Certification	Belt	Direct	Level 1 - L or H type	Level 2 - L or H type	Level 3 - L or H type	Level 3 - Cast Aluminum	Maximum Volume (CFM)	Maximum Static Pressure (in. wg)
SE, SS - 1	8 - 24	✓	✓		✓	✓		✓	✓			✓	✓	○					✓		✓	✓					6,700	1
SCR - 3	24 - 54	✓	✓		✓	✓		✓	✓	✓		✓	✓	✓					✓		✓				✓	51,000	1	
SBE, SBS - 1	20 - 48	✓	✓		✓	✓		✓	✓			✓	✓						✓	✓		✓				30,000	0.75	
SBE, SBS - 2	20 - 60	✓	✓		✓	✓		✓	✓			✓	✓						✓	✓			✓			53,000	1	
SBE, SBS - 3	54 - 72	✓	✓		✓	✓		✓	✓			✓	✓						✓	✓			✓			90,500	1	
SBCE, SBCS, SBCR	24 - 72	✓	✓		✓	✓		✓	✓	✓		✓	✓	○					✓	✓			✓	✓		87,000	1	

Note: ○ - Cast aluminum blades and aluminum hub are spark resistant.

Direct Drive Fan Selection

Three propeller and drive frame construction levels are available with either an L or H type propeller. Models SE1 and SS1 are designed for smaller size applications where lower volumes and static pressures are found.



Level 1
Sizes 8 to 10



Level 1
Sizes 12 to 24

Belt Drive Fan Selection

Three propeller drive frame construction levels are available with either an L or H type propeller. The application requirements for sound and static pressure determine propeller type. Propellers are available in fabricated steel or cast aluminum. C in model name indicates cast aluminum blades and hub.



Level 1



Level 2



Level 3
Fabricated
Sizes 54 to 72



Level 3
Cast Aluminum
Sizes 54 to 72

Belt Drive Blade Designs



L Type



H Type

L Type Propeller:



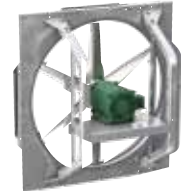
- Swept, steeply pitched blade design.
- Propellers typically run at lower RPMs and generate low sound levels.
- The best selection for sound critical applications or applications that require the best combination of both air and sound performance.
- Typically used when the static pressure is 0.5 in. wg (125 Pa) or less.

H Type Propeller:

- Straight, moderately pitched blade.
- Designed for applications where static pressures are above 0.5 in. wg (125 Pa).
- These propellers typically run at higher RPMs and generate slightly higher sound levels than the "L" propellers.

All direct drive models are available in either exhaust or supply arrangements. Model SCR3 is the reversible fan model.

Level 1			Reversible	
Model Sizes	8 - 12: D, G & E motor speeds (see page 22 for motor speed chart)	12 - 24: A, B & C motor speeds (see page 22 for motor speed chart)	24 - 54	
Panel/Drive Frame	Galvanized steel with one-piece drawn venturi		Galvanized steel with one-piece drawn venturi, bolted structural steel channels and motor plate (paint optional)	
	Zinc plated, heavy welded wire guard/support structure (paint optional)	Bolted structural steel channels and motor plate (paint optional)		
Propeller	Aluminum blades riveted to a steel hub		Heavy-duty, cast aluminum	
Motors	Heavy-duty, permanently lubricated, sleeve bearing type	Ball bearing type	Heavy-duty, permanently lubricated	Ball bearing type

Material Gauges					Max. Motor Frame Size	Approx. Weight (lbs.)	Model	
Fan Size	Fan Panel	Drive Frame	Prop Hub	Prop Blade			Model S1 Sizes 8 to 12	Model S1 Sizes 12 to 24
Level 1, Model S1								
8	18	-**	-	-	48	15	 	
10	18	-**	-	-	48	16		
12	18	14**/*	-	-	48	20		
14	18	14*	-	-	56	27		
16	18	14*	-	-	56	30		
18	18	14*	-	-	56	35		
20	18	14*	-	-	145T	39		
24	18	14*	-	-	145T	45		
Reversible, Model SCR3								Model SCR3
24	16	12	Cast Aluminum Prop	Cast Aluminum Prop	184T	80		
30	16	12			184T	125		
36	16	12			215T	220		
42	14	10			254T	290		
48	14	10			254T	386		
54	14	10			256T	477		

Approximate weight does not include accessories.





* A, B and C motor speeds only.

** D, G and E motor speeds have a wire frame rather than a drive frame.

Belt Drive

Construction and Material Data

	Level 1	Level 2	Level 3 and Reversible
Model Sizes	20 - 48	20 - 60	24 - 72
Panel/Drive Frame	Galvanized steel with one-piece drawn venturi, bolted structural steel channels and one-piece motor/bearing plate		Galvanized steel with one-piece drawn venturi, bolted structural steel channels and two piece motor/bearing plate
	(paint optional)		(all-welded panel/drive frame optional, paint optional)
Propeller	Galvanized steel, riveted blades (aluminum optional)	Reinforced galvanized steel, riveted blades, keyed hub (excluding the 2L)	SB - Heavy-duty, welded, reinforced, powder-coated steel blades. All with keyed hubs. SBC - Heavy-duty, cast aluminum blades. All with keyed hubs.
Bearings	Stamped steel pillow blocks up to size 36 and cast pillow blocks for size 42 and larger	Cast iron pillow blocks with grease fittings	

Material Gauges										Models	
Fan Size	Fan Panel	Drive Frame	Propeller				Shaft Size	Max Motor Frame Size	Approx. Weight (lbs.)		
			Hub		Blade						
			L	H	L	H					
Level 1										Model SB-1H	
20	18	14	14	16	18	3/4	56	60			
24	18	14	14	16	18	3/4	56	70			
30	18	12	14	12	16	3/4	56	95			
36	18	12	14	12	16	3/4	145T	110			
42	16	12	12	10	14	1	145T	150			
48	16	12	12	10	14	1	145T	175			
Level 2										Model SB-2L	
20	18	14	14	16	18	3/4	143T	65			
24	18	14	14	16	18	3/4	145T	75			
30	18	12	14	12	16	1	184T	100			
36	18	12	14	12	16	1	184T	115			
42	16	12	12	10	14	1-1/4	184T	160			
48	16	12	12	10	14	1-1/4	184T	260			
54	16	12	12	10	14	1-1/4	184T	315			
60	14	12	10	12	1-1/2	215T	370				
Level 3										Model SB-3L	
54	14	10	10	14	1-1/2	254T	590				
60	14	10	3/16 in.	12	1-3/4	256T	755				
72	12	10	3/16 in.	12	2	256T	1050				
Reversible										Model SBCR	
24	18	14	12	*16	3/4	145T	90				
30	16	12	12	*16	1	184T	140				
36	16	12	12	*16	1-1/4	184T	260				
42	14	12	10	*14	1-1/2	215T	320				
48	14	12	10	*14	1-1/2	215T	420				
54	14	10	10	*14	1-1/2	254T	590				
60	14	10	3/16 in.	*12	1-3/4	256T	755				
72	12	10	3/16 in.	*12	2	256T	1050				

Approximate weight does not include accessories.

* SBCR uses cast aluminum propeller. Propeller blade gauge column does not apply.

Electrical Accessories

Disconnect Switches

Toggle type and heavy-duty disconnect switches are available for positive electrical shut-off and safety in servicing fans. The following switches are available to meet individual electrical requirements and can be factory-mounted or shipped loose for field mounting. Wiring from the motor to the disconnect box is provided with factory-mounted disconnect switches.

- NEMA-1 - General purpose
- NEMA-3R - Rain Resistance
- NEMA-4 - Watertight
- NEMA-3R & NEMA-4 - Heavy-Duty
- NEMA-7 & 9 - for Class 1 and Class 2 hazardous locations and explosion-resistant applications.



UL/cUL 705

All belt and selected direct drive fans with TE standard efficiency, single-speed motors are available with the UL 705 listing for electrical.

Extended Wiring Pigtail

Available only in conjunction with factory-mounted disconnect switches. Liquid-tight wiring extends beyond the fan and allows direct hook-up to the power supply. This eliminates field wiring within the fan. Internal or external power supply can be specified.

End Switches

Factory-mounted end switches allow the damper to open completely before the fan is energized. This reduces back pressure and brake horsepower load on the fan motor at start-up. (Field-supplied motor starter with a relay is required to complete the wiring on a system using an end switch.)

One-Point Wiring

Available when the following items are selected:

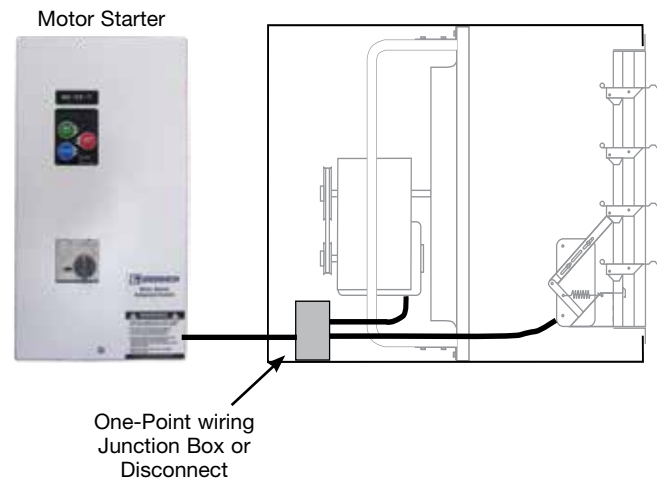
- Common voltages on the motor and the actuator
- Disconnect mounted and wired
- Wall housing

The wires are pulled from the motor and the actuator on the damper to the disconnect box. (Hard-wiring of the components to the disconnect switch is by others.)

Exception: When a specific voltage is not available on the actuator, Greenheck will provide a hardwired transformer to the actuator. Greenheck will then pull the wires from the transformer to the disconnect box.

Motor Starters

Can be used to coordinate dampers, end switches and motor starting. They protect the motor, offer control options, and provide Lockout/Tagout features as well. (see below)



Finish Options

Coatings





A variety of special coatings ranging from enamels to phenolics are available for decorative or protective purposes. When a special coating is selected for the fan, all accompanying accessory items are also coated unless specified. Consult your local representative for more details.





Welded and Painted Fan Construction

For applications where extra heavy construction is required, welded steel construction is available. With this option, all stationary connections which are normally bolted, are welded and coated with an industrial grade paint. This option applies to belt drive level 3 fans and direct drive level 2 and 3 fans only.

Seismic-Rated Fans

All certified sidewall propeller fans are tested and certified to the worst-case scenario seismic conditions for use anywhere in the United States. All fans are shaker table tested and certified to California HCAI seismic standards as well as IBC 2012 standards. For more information, see California HCAI certification - OSP-0356.

Option or Accessory	Mounting Option					
	Standard Wall Mounting	Standard Horizontal Mounting	Wall Collar	Wall Housing	Filtered Supply Wall Housing	
	Page Number	9	9	12	12	11
<p>OSHA Motor Side Guard</p> <p>Protective guards of expanded metal screen in structural steel frames are available to completely enclose the motor and drive side of the fan.</p>		✓		✓		
<p>Weatherhood</p> <p>Weatherhoods shield wall openings and dampers from rain and snow. Weatherhoods are shipped unassembled in kit form for field assembly. Construction is of galvanized steel with wire mesh birdscreen. Mounting flanges have prepunched mounting holes. 45° turndown is for exhaust and 90° turndown is for exhaust and supply. Options include aluminum construction, insect screen and painted finish. The weatherhood cannot be used with the damper guard option.</p>		✓		✓	✓	✓
<p>Damper Guard</p> <p>Damper guards meet the OSHA requirements to completely enclose the damper or wall openings on the discharge side of the fan. They are constructed of expanded galvanized steel screen in galvanized steel frames. Mounting flanges have prepunched mounting holes. Options include aluminum construction and painted finish. The damper guard cannot be used with the weatherhood option.</p>		✓		✓	✓	✓
<p>Dampers</p> <p>Used alone or in conjunction with the wall housing or wall collar, a complete line of dampers are available for exhaust or supply configurations.</p>		✓		✓	✓	✓

Mounting Option	Description	Page
<p>Standard Wall Mounting</p> 	<p>Fan can be mounted directly to a wall.</p>	<p>9</p>
<p>Standard Horizontal Mounting</p> 	<p>Fan can be horizontally mounted to move air up or down.</p>	<p>9</p>
<p>Filtered Supply Wall Housing</p> 	<p>The filtered supply wall housing is a flexible and easy way to mount the fan for installations where filtering is required.</p>	<p>11</p>
<p>Wall Housing</p>  <p>Optional Accessories</p>	<p>The wall housing is the easiest and most flexible way to mount the sidewall propeller fan and all of its accessories.</p>	<p>12</p>
<p>Wall Collar</p>  <p>Optional Accessories</p>	<p>The wall collar is an easy way to mount the sidewall propeller fan and its accessories.</p>	<p>12</p>

Standard Wall Mounting

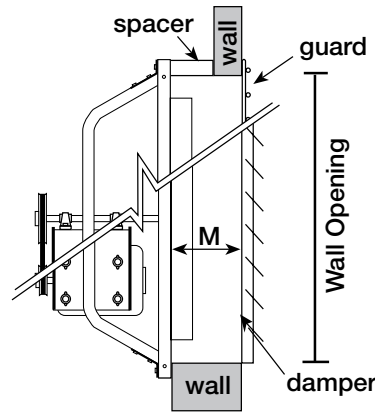
The split drawing (right) illustrates the typical ways of mounting fans directly to the wall when a wall housing or collar is not used.

For exhaust fans, there is a minimum dimension (M) which must be maintained between the propeller and damper or guard to achieve optimum performance (*failure to meet this minimum dimension will result in loss of fan performance, increased noise and shortened fan and damper life*). There is also a minimum required wall opening dimension (W.O.) to allow the venturi to fit into the wall opening.

The chart at far right provides the minimum “M” and wall opening dimensions.

This installation may require a spacer (by others) between the fan and wall to achieve the minimum “M” dimension.

Fans can be mounted directly to a wall only if the wall is of sufficient thickness to meet the minimum “M” dimension as shown here. If mounting to a wall through the face of the fan panel, holes will need to be appropriately drilled where required.



Fan Size	M	Wall Opening
8	6	10-1/2
10	6	12-1/2
12	7	14-1/2
14	8	16-1/2
16	9	18-1/2
18	10	20-1/2
20	12	22-1/2
24	13	26-1/2
30	13	32-1/2
36	14	38-1/2
42	15	44-1/2
48	16	50-1/2
54	17	57-1/2
60	19	63-1/2
72	19	74-1/2

All dimensions in inches.

Standard Horizontal Mounting

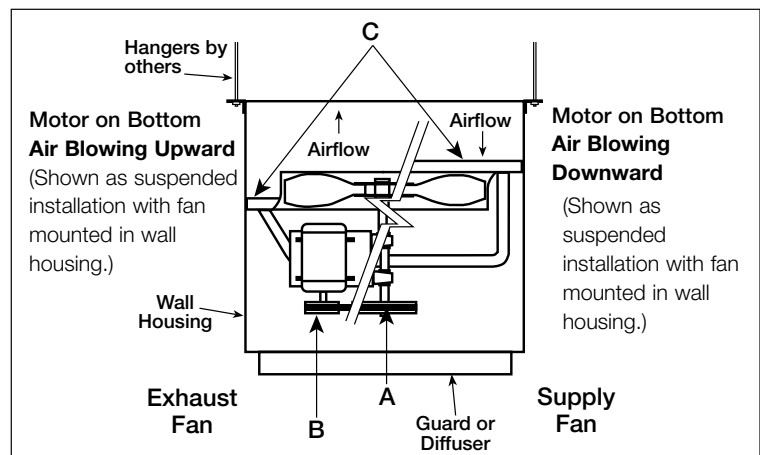
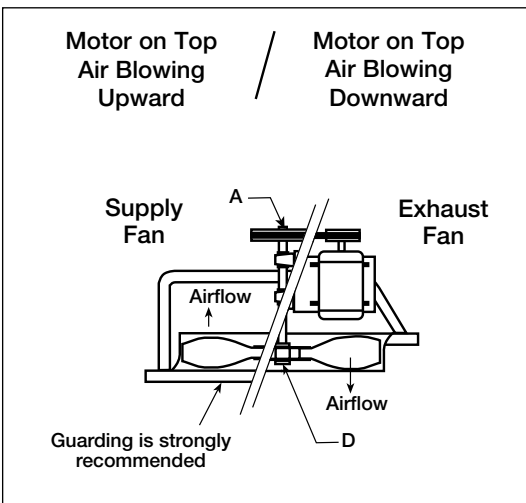
Modifications Shown in Diagrams	
A	Grooved shaft with snap rings (belt drive fans)
B	Motor pulley retaining hardware (belt drive fans with motor on bottom)
C	Reinforcing angles on fan panel (all fans with motor on bottom)
D	Propeller retaining hardware - not shown (direct drive fans with motor on top)

NOTE: Protective guarding is also required below the fan for safety. When guarding is not ordered with the fan, it must be supplied by the installer. When specifying a fan for horizontal mounting, the motor location (top or bottom) and airflow (upward or downward) are required information.

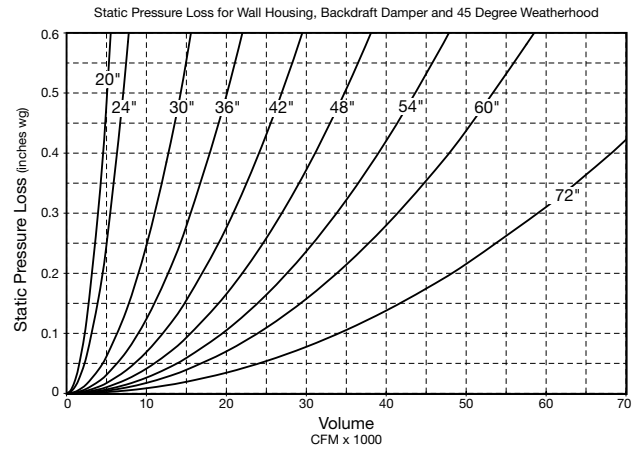
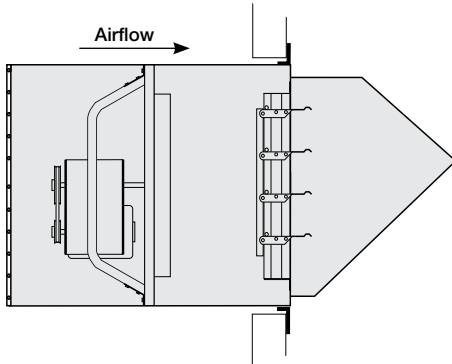
Horizontally-mounted fans are available for applications requiring vertical airflow.

Typical applications include mounting fans in ductwork or plenums as transfer fans or suspending them from the ceiling in a wall housing for use as recirculation fans. Both belt and direct drive fans can be horizontally mounted. Motors can be mounted on top or on bottom with airflow up or down. Specify configuration best suited for access and service.

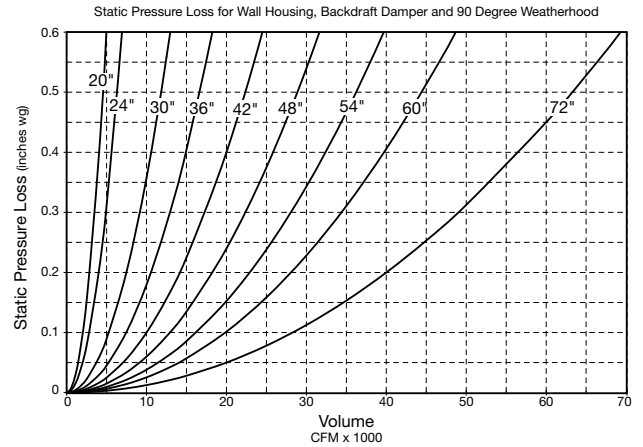
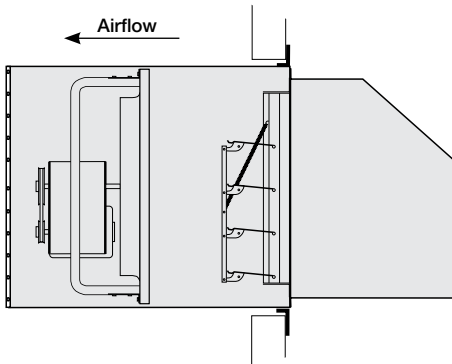
Horizontally-mounted fans are put under different stresses than fans mounted in a wall. Construction modifications are required depending on motor location (top or bottom) and whether the fan is belt or direct drive.



EXHAUST FAN in Wall Housing with Gravity Damper and Weatherhood



SUPPLY FAN in Wall Housing with Gravity Damper and Weatherhood

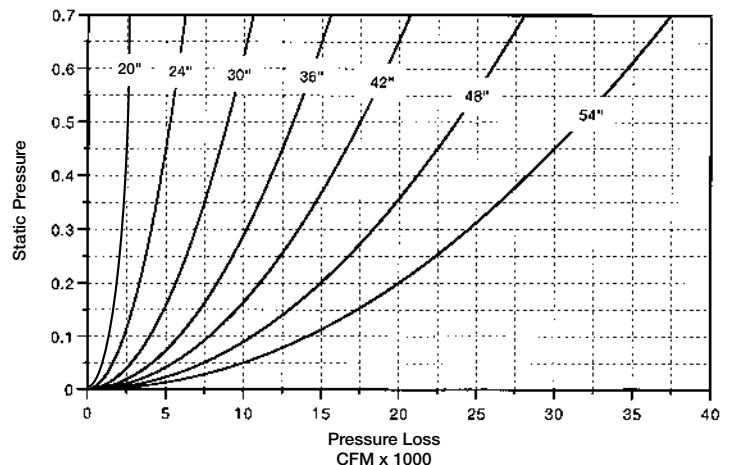


See section on page 12 about water ingress and mitigation on supply fans.

FILTERED SUPPLY FAN in Wall Housing with Filter Bank, Gravity Damper and Weatherhood



Note: This chart is for manual calculations only. CAPS® has filter losses built into the selection tool when the filtered housing option is selected.



Filtered Supply Wall Housing Mounting

Filtered supply wall housings are available in six sizes for fans ranging from size 24 to 54 inches. They are designed with the draw-thru concept to achieve the highest filter and fan efficiencies.

Standard construction is galvanized steel (painted steel optional). Mounting flanges are factory installed for either flush exterior or flush interior mounting. Permanent 2-inch washable filters are accessed through a bolted panel and can be easily removed for cleaning.

All accessory items available with the standard wall housing can be used with the filtered supply wall housing.

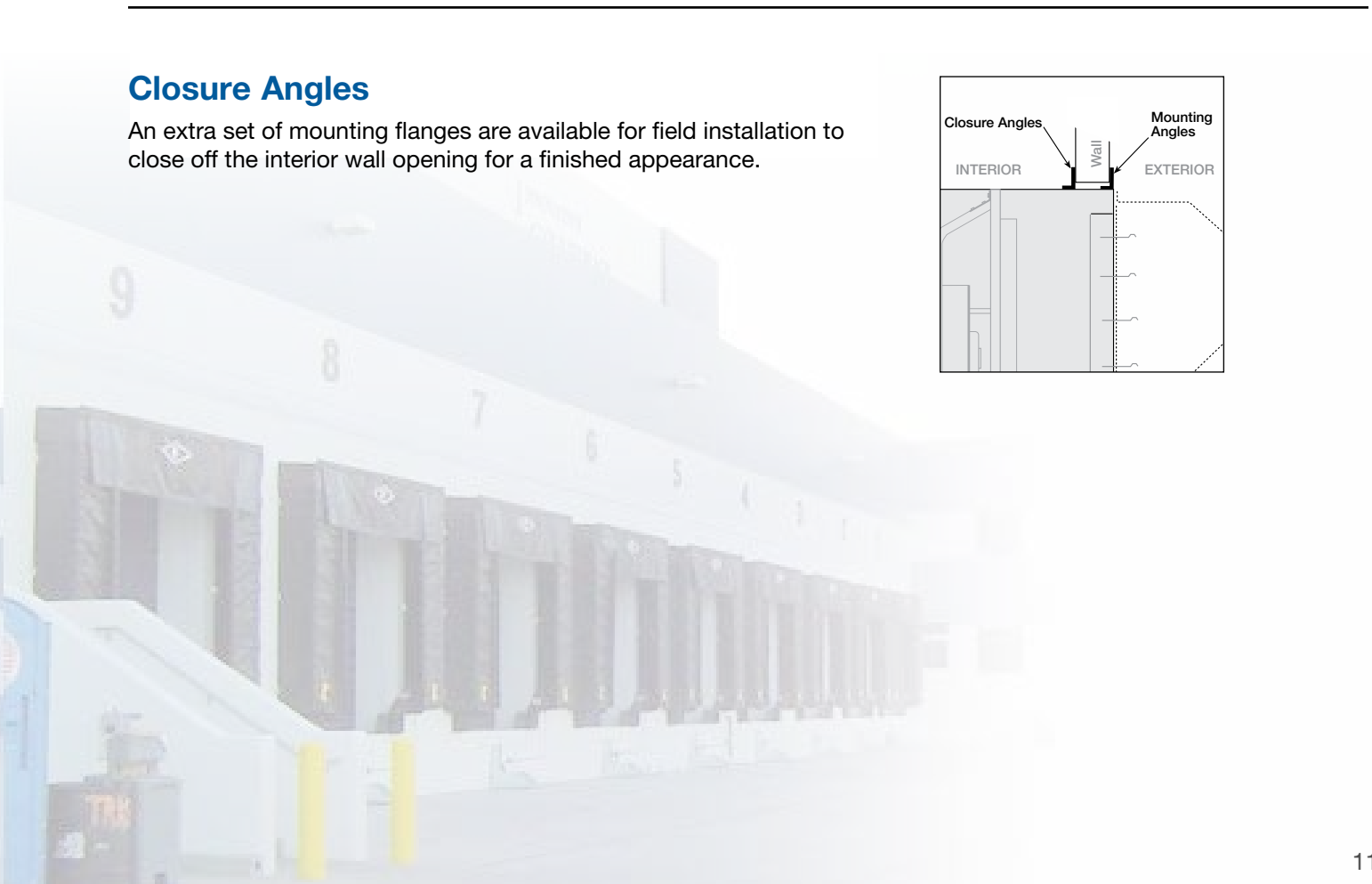
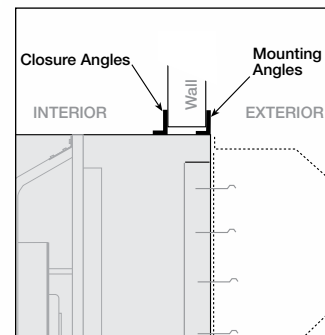


Size	Filter Size and Quantity
24	(4) 23-1/4 x 16-1/4
30	(4) 24-5/8 x 19-1/4
36	(6) 23-1/4 x 22-1/8
42	(6) 24-1/8 x 25-1/8
48	(12) 23-1/4 x 18-3/4
54	(12) 23-1/4 x 20-3/4

Filters are 2-inch nominal thickness. Above filter sizes are actual dimensions. All dimensions given in inches.

Closure Angles

An extra set of mounting flanges are available for field installation to close off the interior wall opening for a finished appearance.



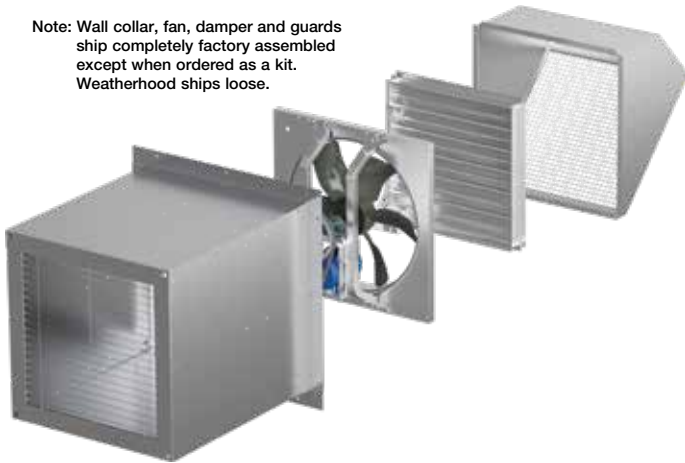
Wall Housing Mounting

Wall housings are the safest, most efficient and sturdy platform for mounting sidewall propeller fans and their optional accessories. Wall housings allow for a wide range of mounting arrangements to meet specific applications. It is constructed of galvanized steel (painted steel optional) with heavy-gauge mounting flanges and prepunched mounting holes. Protective guards of welded steel wire completely protect the drive side of the wall housing. Guards are coated with Permator™, a thermal setting polyester urethane. Other paint finishes are also available. Wall housing guards that meet OSHA requirements are also available.



The wall housing is designed to reduce installation time and provide maximum installation flexibility. Attached accessories such as backdraft dampers, guards and weatherhoods may mount to either end. As a result, a wide variety of configurations are available to accommodate the needs of the system designer.

Note: Wall collar, fan, damper and guards ship completely factory assembled except when ordered as a kit. Weatherhood ships loose.



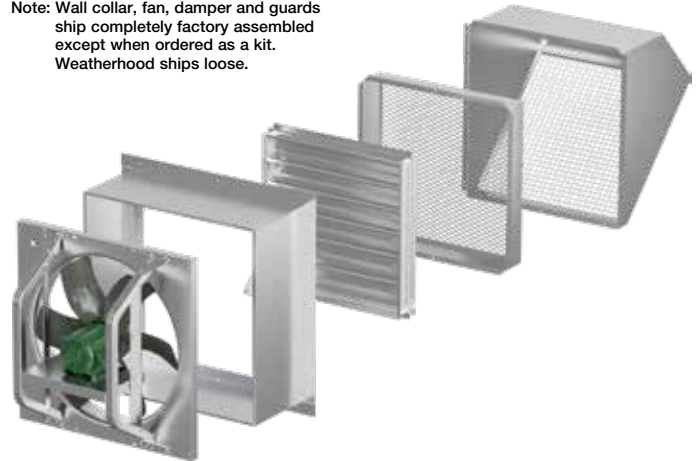
Wall housing or wall collar should be tipped slightly to the outside for water drainage.

Wall Collar Mounting

Wall collars offer an alternate method for mounting sidewall propeller fans and the optional accessories shown here. Standard construction is of galvanized steel (painted steel is optional) with heavy-gauge mounting flanges and prepunched mounting holes.



Note: Wall collar, fan, damper and guards ship completely factory assembled except when ordered as a kit. Weatherhood ships loose.



Water Ingress and Mitigation

Fans installed to supply air into a building carry the inherent risk of supplying moisture into the building as well. Rain, snow, driving wind, and cold temperature frosting can all contribute to the possibility of unwanted moisture entering the building.

The amount of water captured is dependent on air velocity, water droplet size, length of event, wind strength and wind direction. Because of these variables some degree of water entrainment can occur. Caution should be exercised when supplying air with a sidewall propeller fan.

- Weatherhoods and louvers are recommended to reduce the likelihood of water entering a building through the fan opening.
- Installing the fan with a slight slope toward the outside (1/8 inch per foot or more) will minimize water ingress to the building.
- Air velocities below 500 ft/min reduce the risk of rain ingress; however snow can be captured at much lower rates.
- Installation orientation consideration - mounting a fan on west or south side of a building increases potential for driving rain/moisture. Consider the north or east side for supply air fan mounting.
- Consider mounting under an eave with a rain gutter if fan will be mounted near the roofline.

Sidewall propeller housings can be oriented in eight horizontal and eight vertical configurations. The two main considerations for determining which orientation the project requires are:

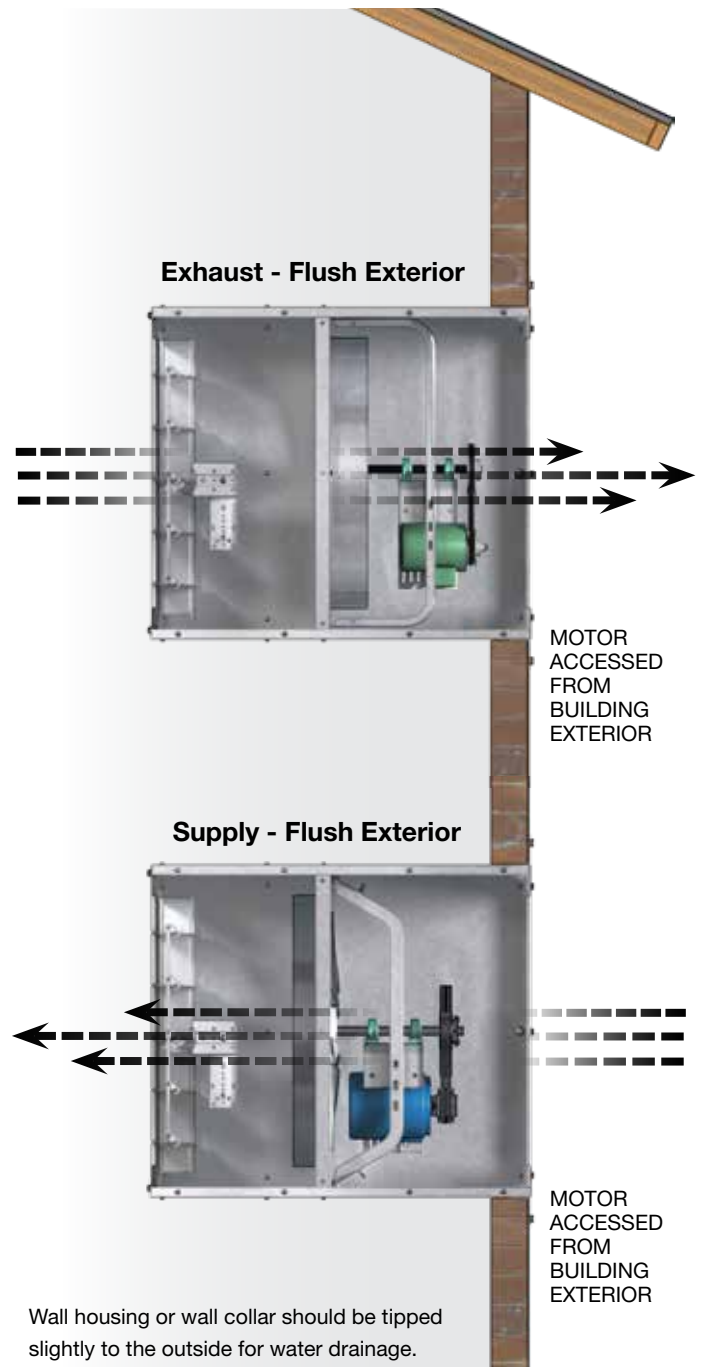
1. Will the fan and housing be placed inside the building or outside of the building?
2. How will the motor and drives be most easily accessed, from inside of the building or from outside of the building?

Flush Exterior - Motor and Drive Accessed From

Inside of Building - Damper Outside



Outside of Building - Damper Inside



Wall housing or wall collar should be tipped slightly to the outside for water drainage.

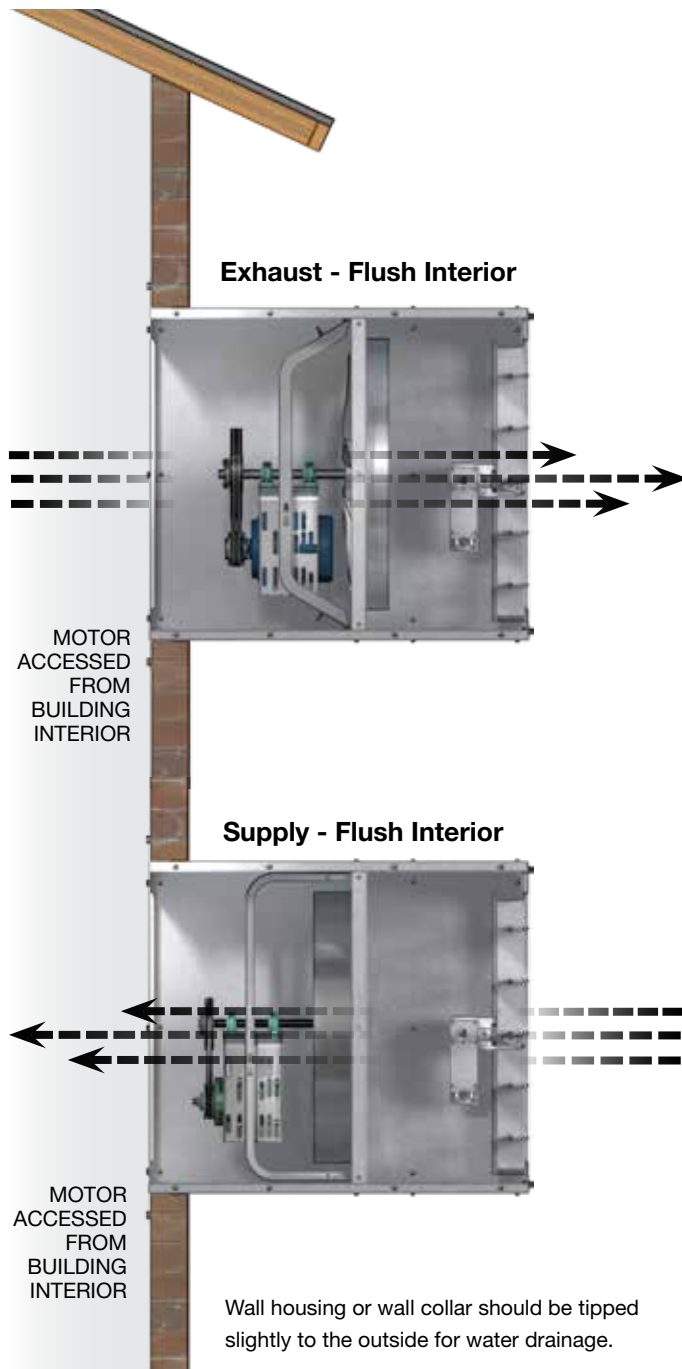
Flush Interior: The fan and housing will be outside the building and the end of the housing will be flush with the interior wall.

Flush Exterior: The fan and housing will be inside the building and the end of the housing will be flush with the exterior wall.

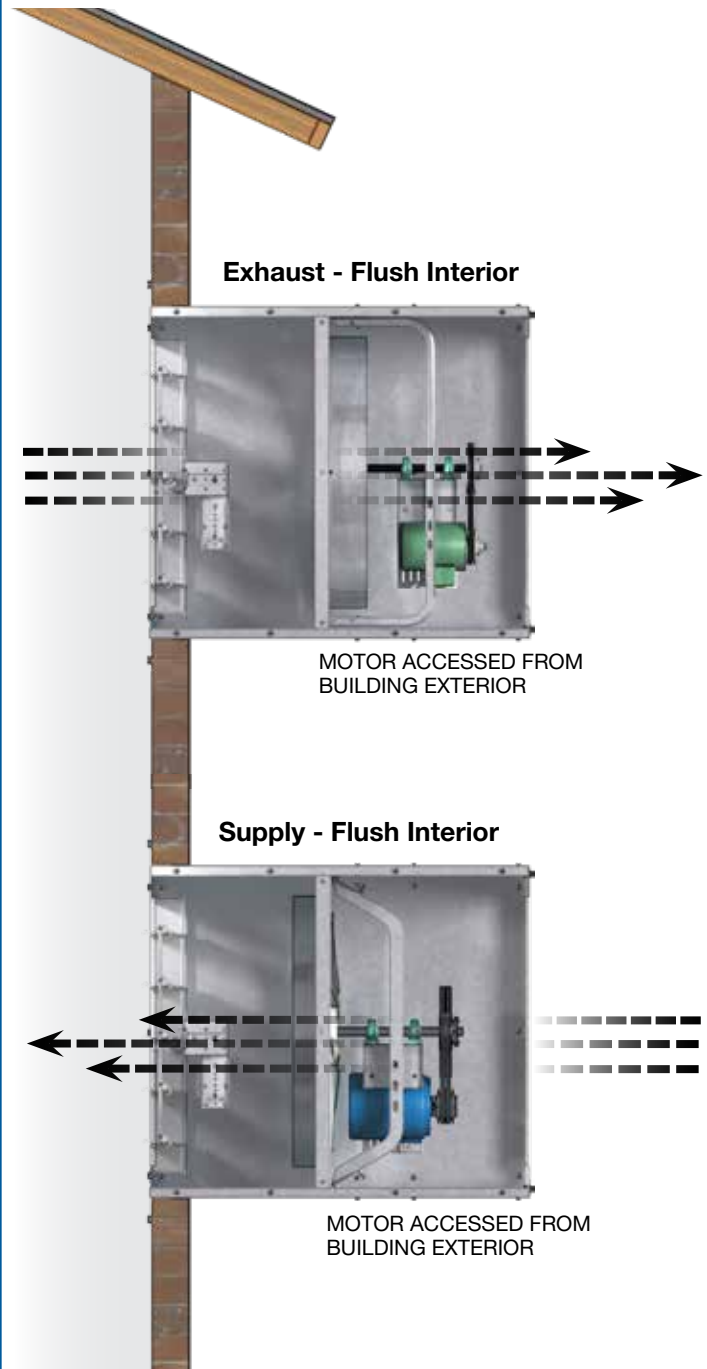
Motor Access: The motor and drives can be placed on either side of the propeller for access to grease bearings, check or change belts and inspect the motor/wiring connections. Failure to assess the best access point can place maintenance personnel in extreme danger if they must reach through the propeller.

Flush Interior - Motor and Drive Accessed From

Inside of Building - Damper Outside



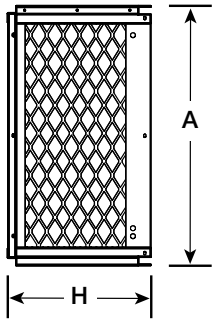
Outside of Building - Damper Inside



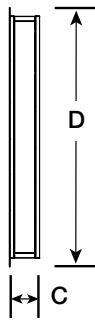
Options and Accessories

Guard / Weatherhood Dimensions

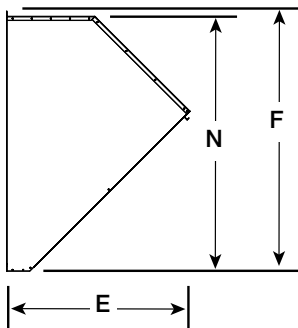
OSHA Motor Side Guard



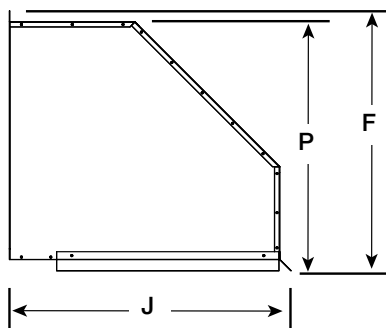
Damper Guard



45° Weatherhood



90° Weatherhood

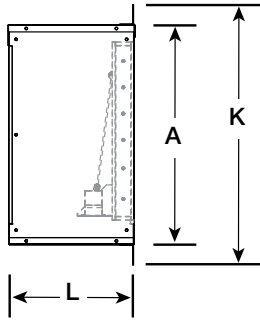


Size	OSHA Side Guard			Galvanized Steel Gauge (ga) Thickness
	A	H		
		Supply	Exhaust	
8	13-1/8	9-5/8	9-5/8	18
10	15-1/4	10	10	18
12	18	12	12	18
14	20-1/8	12	12	18
16	22-1/8	12	12	18
18	24-1/8	12	12	18
20	26-1/8	22	17-3/4	18
24	32-1/8	22-3/4	19-3/4	18
30	38-1/8	26	21-1/2	18
36	44-1/8	31-1/4	24-1/4	18
42	50-1/8	33-1/4	27	18
48	56-1/8	34-3/4	29-1/4	18
54	62-1/8	39	34	16
60	68-1/8	39	30	16
72	74-1/8	39	34	16

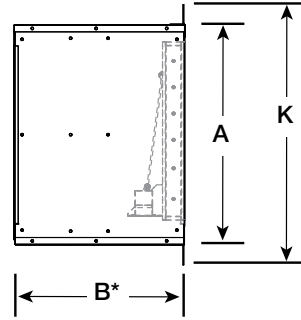
Size	Damper Guard		Damper	Weatherhood							Galvanized Steel Gauge (ga) Thickness
	C	D		E	J	N	P	Width	F 45°	F 90°	
8	5-1/2	10-1/4	10	13-1/4	16-3/8	11-1/4	12	10-1/2	12	12-3/4	18
10	6-1/2	12-1/4	12	14-7/8	18-1/2	13-3/8	14	12-1/2	14-1/4	14-7/8	18
12	5-1/4	14-1/4	14	16-3/8	20-3/8	15-5/8	16-3/8	14-1/2	16-7/8	17-1/2	18
14	6-1/4	16-1/4	16	17-1/2	22-1/2	17-5/8	18-3/8	16-1/2	18-7/8	19-1/2	18
16	6-3/4	18-1/4	18	19-3/8	25	19-5/8	20-3/8	18-1/2	20-7/8	21-1/2	18
18	6	20-1/4	20	22	27-1/2	21-5/8	22-3/8	20-1/2	22-7/8	23-1/2	18
20	6-1/2	22-1/4	22	24-3/4	29-3/4	23-5/8	24-3/8	22-1/2	24-7/8	25-5/8	18
24	6-1/4	26-1/4	26	26-7/8	36	30-3/8	31-3/4	29-1/8	31-3/4	33-1/8	18
30	6-1/2	32-1/4	32	29-1/8	40-1/8	36-1/2	37-7/8	35-1/8	37-7/8	39-1/4	18
36	6-3/4	38-1/4	38	33	45-1/2	42-1/2	43-7/8	41-1/8	43-7/8	45-1/4	18
42	10	44-1/4	44	35-3/4	49-1/4	48-1/2	49-7/8	47-1/8	49-7/8	51-1/4	18
48	9	50-1/4	50	40-3/8	55-1/2	54-5/8	56	53-1/4	56	57-3/8	18
54	7-1/2	56-1/4	56	44-3/4	61-1/4	60-7/8	62-1/4	59-1/2	62-1/4	63-5/8	16
60	7-1/4	62-1/4	62	48-3/8	66-1/2	67	68-3/8	65-5/8	68-3/8	69-3/4	16
72	7-1/2	74-1/4	74	53-1/4	72-1/8	79-1/2	80-7/8	78-1/8	80-3/4	82-1/8	16

All dimensions in inches.

Wall Collar

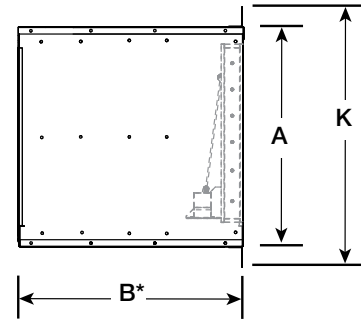


Short Wall Housing



* B - Short Wall Housing: B dimension will increase by 6 inches when a long wall housing is selected or a motorized backdraft damper is specified. For complete dimensional information refer to submittal. All dimensions given in inches.

Long Wall Housing

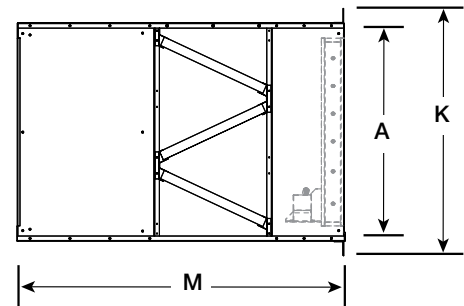


* B - Short Wall Housing: B dimension will increase by 6 inches when a long wall housing is selected or a motorized backdraft damper is specified. For complete dimensional information refer to submittal. All dimensions given in inches.

Size	Wall Collar and Housings						Galvanized Steel Gauge (ga) Thickness
	A	B*	K	L	M	W.O.	
8	13-1/4	19	16-1/4	16-1/8	—	14-1/4	18
10	15-1/4	19	18-1/4	16-1/8	—	16-1/4	18
12	18-1/4	23	21-1/4	16-1/8	—	19-1/4	18
14	20-1/4	26	23-1/4	18-3/8	—	21-1/4	18
16	22-1/4	27	25-1/4	18-3/8	—	23-1/4	18
18	24-1/4	28	27-1/4	18-3/8	—	25-1/4	18
20	26-1/4	32	29-1/4	18-3/8	—	27-1/4	18
24	32-1/4	37	38-1/4	18-3/8	63	33-3/4	18
30	38-1/4	38	44-1/4	18-3/8	65	39-3/4	18
36	44-1/4	39	50-1/4	18-3/4	67-1/4	45-3/4	18
42	50-3/8	44	56-3/8	18-3/4	72-7/8	51-3/4	18
48	56-3/8	44	62-3/8	18-7/8	72-7/8	57-3/4	18
54	62-3/8	52	68-3/8	20-1/8	79-11/16	63-3/4	18
60	68-3/8	54	74-3/8	2	—	69-3/4	16
72	83-1/8	60	89-1/8	22	—	84-3/4	12

All dimensions in inches.

Filtered Wall Housing



Backdraft Dampers

Used as a stand-alone accessory or in conjunction with a wall housing or wall collar accessory, backdraft dampers are available for exhaust or supply configurations. Backdraft dampers are constructed with aluminum or galvanized frames and blades and vinyl blade seals. Actuators are available in 24, 115, 208, 230, or 460 volts. Actuators for 50-cycle voltages are also available.

Backdraft damper model availability will be limited if fan velocity exceeds maximum damper catalog velocity.



WD-320/430 Series



EM-31 Series

Commercial Control Dampers

Used as a stand-alone accessory or in conjunction with a wall housing or wall collar accessory, commercial control dampers are available for exhaust or supply configurations. Commercial control dampers are constructed with galvanized or aluminum frames and galvanized or stainless steel blades and stainless steel blade seals. Actuators are available in 24, 115, 208, 230, or 460 volts. Actuators for 50-cycle voltages are also available.



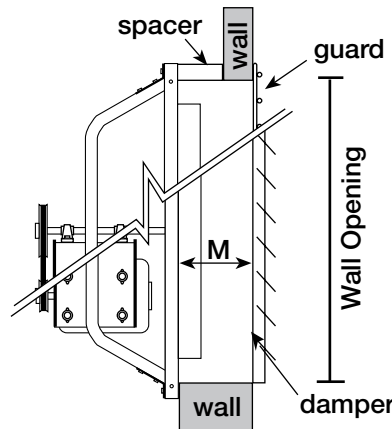
VCD-20/30/40 Series

Damper Availability	BD-320	EM-31	VCD-20	VCD-23	VCD-33	VCD-34	VCD-42	VCD-43	WD-320	WD-430
Exhaust	●	○	●	●	○	○	○	○	●	
Supply			●	●	○	○	○	○		●

○ Ship Loose Only ● Factory Attached or Ship Loose

Fan Size	M	Wall Opening
8	6	10-1/2 x 10-1/2
10	6	12-1/2 x 12-1/2
12	7	14-1/2 x 14-1/2
14	8	16-1/2 x 16-1/2
16	9	18-1/2 x 18-1/2
18	10	20-1/2 x 20-1/2
20	12	22-1/2 x 22-1/2
24	13	26-1/2 x 26-1/2
30	13	32-1/2 x 32-1/2
36	14	38-1/2 x 38-1/2
42	15	44-1/2 x 44-1/2
48	16	50-1/2 x 50-1/2
54	17	57-1/2 x 57-1/2
60	19	63-1/2 x 63-1/2
72	19	74-1/2 x 74-1/2

All dimensions in inches.

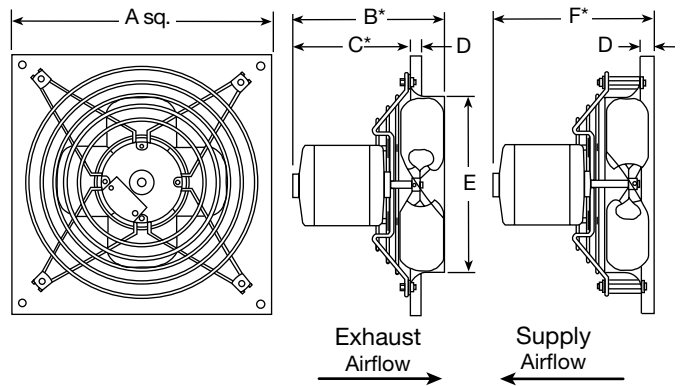


Volume control dampers that are ordered with explosion proof (EXP) actuators will affect overall length of long wall housing depending on fan size and actuator; consult factory.

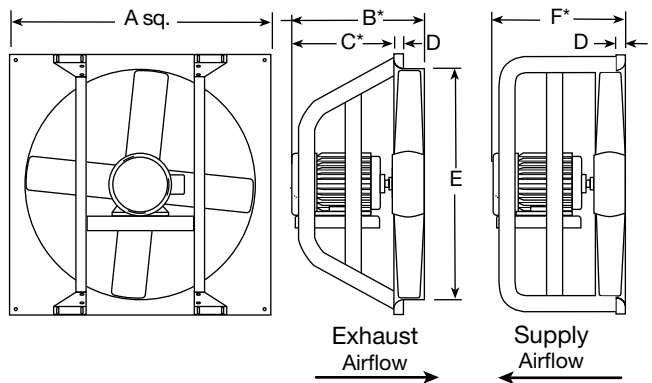
Fan Size	A Sq.	B*	C*	D	E	F*	Damper Size
Level 1							
8	13	7	5	1	8-3/8	8	10 x 10
10	15	8-3/4	5	1	10-3/8	8	12 x 12
12	18	10-3/4	8-1/4	1	12-3/8	13-1/8	14 x 14
14	20	11-1/4	8-1/2	1	14-3/8	14-1/4	16 x 16
16	22	11-3/4	8-7/8	1	16-3/8	14	18 x 18
18	24	14	10-7/8	1	18-3/8	14-1/4	20 x 20
20	26	17-1/4	11	1	20-1/2	18	22 x 22
24	32	20	12-5/8	1-1/4	24-3/8	21	26 x 26
Reversible							
24	32	20	13 ¹ / ₂	1-1/4	24-5/8	-	26 x 26
30	38	20-1/2	16-3/8	1-1/4	30-3/4	-	32 x 32
36	44	20-1/2	16-3/8	2	36-5/8	-	38 x 38
42	50	26	18-1/4	2	42-5/8	-	44 x 44
48	56	26-5/8	20-5/8	2	49	-	50 x 50
54	62	28	22-7/16	2	55-3/8	-	56 x 56

*Varies with motor selection. All dimensions in inches.

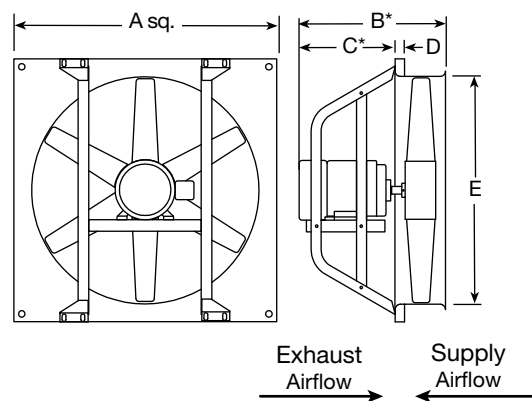
Level 1: Sizes 8 - 12



Level 1: Sizes 12 - 24



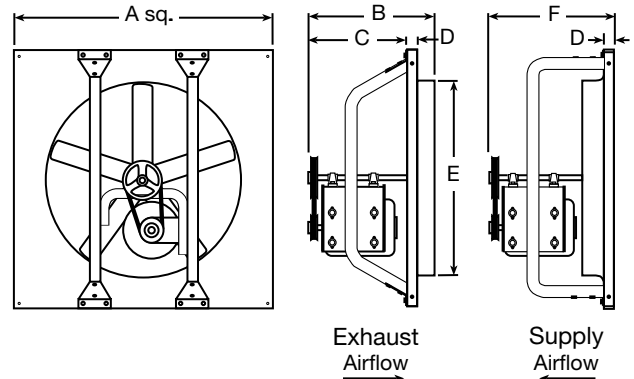
Reversible



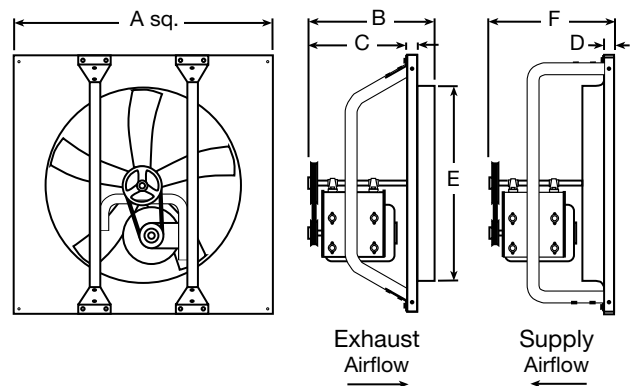
Fan Size	A Sq.	B	C	D	E	F	Damper Size
Level 1							
20	26	19-1/2	16-1/4	1	20-1/2	20	22 x 22
24	32	19-1/2	16-1/8	1-1/4	24-5/8	20	26 x 26
30	38	22-1/2	18-1/4	1-1/4	30-5/8	21	32 x 32
36	44	21-1/2	16-1/2	2	36-5/8	23	38 x 38
42	50	25	20	2	42-3/4	23	44 x 44
48	56	25	19	2	48-3/4	23	50 x 50
Level 2							
20	26	19-1/2	16-1/4	1	20-1/2	20	22 x 22
24	32	19-1/2	16-1/8	1-1/4	24-5/8	20	26 x 26
30	38	21-1/2	17-1/4	1-1/4	30-5/8	21	32 x 32
36	44	21-1/2	16-1/2	2	36-5/8	22	38 x 38
42	50	25	20	2	42-3/4	25-1/2	44 x 44
48	56	25	19	2	48-3/4	25-1/2	50 x 50
54	62	26	20-1/2	2	55-1/4	24	56 x 56
60	68	28	21-7/16	2	61-1/4	24	62 x 62
Level 3							
54	62	35-3/4	30-1/4	2	55-1/4	36-1/4	56 x 56
60	68	35	28-7/16	2	61-1/4	35-1/2	62 x 62
72	82	35	28-1/4	2-1/8	73-1/4	35-1/2	74 x 74
Reversible							
24	32	19	15-5/8	1-1/4	24-5/8	20-1/2	26 x 26
30	38	21-1/2	17-1/4	1-1/4	30-5/8	20	32 x 32
36	44	28	23	2	36-5/8	27	38 x 38
42	50	28	23	2	42-3/4	29-1/4	44 x 44
48	56	31-1/2	27-1/2	2	48-7/8	30-1/2	50 x 50
54	62	35-3/4	30-1/4	2	55-1/4	36-1/4	56 x 56
60	68	35	28-7/16	2	61-1/4	35-1/2	62 x 62
72	82	35	28-1/4	2-1/8	73-1/4	35-1/2	74 x 74

All dimensions in inches.

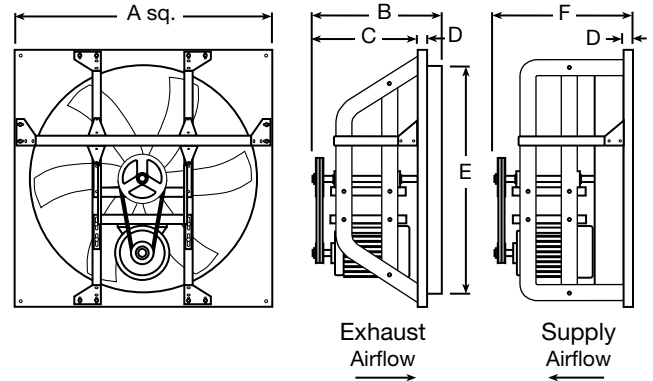
Level 1



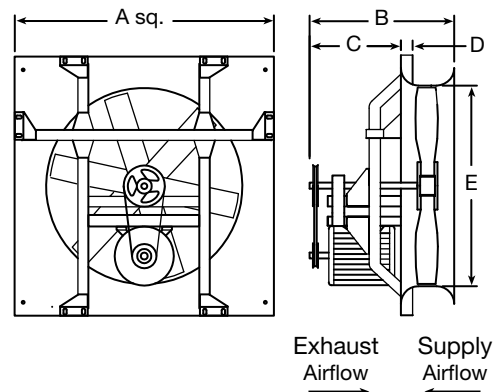
Level 2



Level 3



Reversible



Model SE1 (direct drive) is available with Greenheck's Vari-Green® technology. Greenheck's Vari-Green products are designed for efficiency, controllability and low maintenance.

Motors

The Greenheck Vari-Green motor is an electronically commutated (EC) motor that operates on single or three phase AC input power and internally converts it to DC power providing improved speed control capabilities (up to an 80% turndown) and higher efficiencies than standard motors. The Vari-Green motor blends technology, controllability and energy efficiency in a low-maintenance package that has changed the way the industry designs, specifies and operates air movement equipment. Depending on power rating, Vari-Green motors are available in both single and three phase with either a mounted dial-on fan potentiometer (speed control) or wired to accept a 0-10 VDC control signal from an external source.



Controls

Greenheck offers a wide array of control options for pairing with Vari-Green motors. These controls are available for applications requiring manual operation or demand-controlled ventilation (DCV). Applications utilizing DCV controls provide only the desired amount of ventilation, delivering building owners savings on their energy bills.



Manual Controls

- Dial-on Motor
- Remote Dial
- Touch Remote

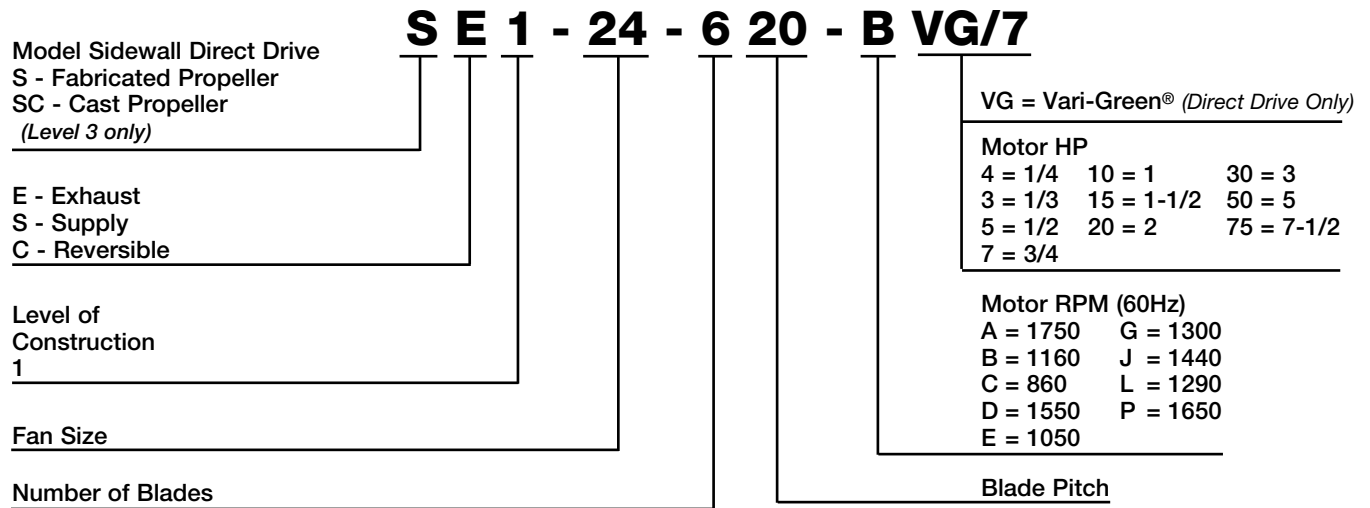
Demand Controlled Ventilation

- Hand/Off/Auto (HOA)
- Constant Airflow
- Constant Pressure
- Air Quality - Volatile Organic Compound (VOC)
- Air Quality - Temperature/Humidity
- 0-10 VDC Signal from Building Management System (BMS)



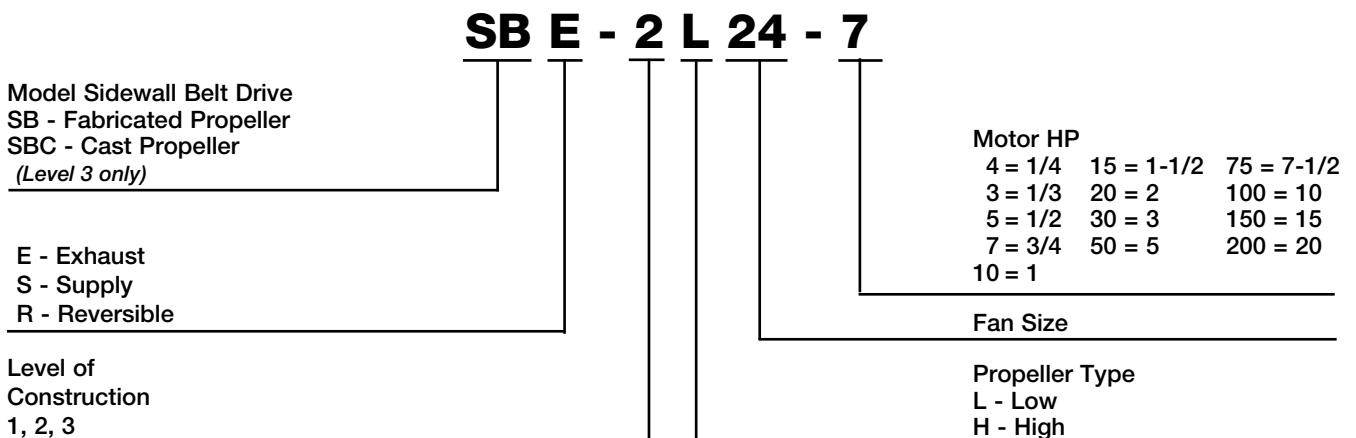
Direct Drive Number Code

The model number system is designed to completely identify the fan. The correct code letters must be specified to designate direct drive with exhaust, supply, or reversible air configuration. The remainder of the model number is determined by the size and performance selected from the following pages.



Belt Drive Number Code

The model number system is designed to completely identify the fan. The correct code letters must be specified to designate belt drive with exhaust, supply, or reversible air configuration. The remainder of the model number is determined by the size and performance selected from the following pages.



Model Number	Fan RPM	Max BHP	Max Sones	CFM/Static Pressure in Inches WG											
				0.00	0.05	0.10	0.125	0.15	0.20	0.25	0.30	0.375	0.50	0.625	0.75
Vari-Green SE1 Performance															
SE1-8-440	1725	0.044	11.3	511	476	435	387	349	261	220	191				
	300			89											
SE1-10-440	1725	0.098	11.3	1029	979	921	889	856	792	707					
	300			179											
SE1-12-426	1725	0.078	14.8	1239	1187	1122	1084	1043	947	828	711	468			
	300			215											
SE1-12-432	1725	0.26	14.8	1613	1553	1490	1455	1421	1334	1254	1176	1056	888	679	556
	300			281											
SE1-12-436	1725	0.13	16.7	1621	1570	1513	1471	1429	1346	1230	1073	639			
	300			282											
SE1-14-432	1725	0.27	12.5	2370	2317	2264	2237	2209	2152	2096	2007	1864			
	300			412											
SE1-14-436	1725	0.38	16.3	2695	2635	2575	2544	2511	2445	2378	2292	2129	1728	1183	
	300			469											
SE1-14-440	1725	0.47	21	2386	2307	2234	2205	2176	2119	2048	1973	1877	1435	1282	1163
	300			415											
SE1-16-421	1725	0.36	19	2516	2470	2424	2400	2377	2327	2268	2210	2093	1862		
	300			438											
SE1-16-426	1725	0.49	31	3136	3081	3026	2999	2972	2917	2852	2787	2681	2464		
	300			545											
SE1-16-428	1725	0.61	16.1	3325	3266	3207	3178	3149	3088	3026	2963	2849	2637	2385	1801
	300			578											
SE1-16-436	1725	0.85	21	4019	3956	3894	3863	3832	3766	3697	3629	3526	3262	2790	2214
	300			699											
SE1-18-424	1725	0.7	17	4164	4090	4017	3980	3943	3859	3768	3676	3519	3157	2826	
	300			724											
SE1-18-429	1725	0.85	22	4816	4737	4658	4618	4578	4489	4382	4274	4113	3817	3342	2860
	300			838											
SE1-20-420	1550	0.61	24	4148	4074	4000	3963	3926	3859	3793	3726	3610	3352		
	1725	0.84	24	4616	4550	4483	4450	4417	4352	4292	4232	4143	3953	3718	
	300			803											

Performance certified is for installation type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet hemispherical sone levels.

S1-Direct Drive - Level 1 Fabricated Propeller



Model Number	Motor HP	Fan RPM	Watts Max BHP	Sones @ Free Air	CFM/Static Pressure in Inches WG											
					0.00	0.05	0.10	0.125	0.15	0.20	0.25	0.30	0.375	0.50	0.625	0.75
SE1/SS1 Performance																
S1-8-424-G	1/80	1350	28W	3.2	300	263	190									
S1-8-426-D		1550	39 W	3.7	310	282	232	190	140							
S1-8-428-P	1/40	1650	53 W	3.9	329	303	266	237	214	149						
S1-8-440-E	1/100	1050	50 W	1.5	311	224	127	101								
S1-8-440-G	1/40	1350	55 W	3.5	400	354	257	189	174	138						
S1-8-440-D	1/25	1550	75 W	4.9	459	420	351	308	256	198	167	115				
S1-10-424-D	1/50	1550	45 W	4.6	575	526	462	407								
S1-10-426-P	1/30	1650	55 W	4.8	590	551	502	468	429							
S1-10-428-P	1/20		78 W	5.2	606	574	537	511	484	407	273	249	214			
S1-10-440-E	1/40	1050	105 W	3.2	626	533	361									
S1-10-440-G	1/20	1350	135 W	4.9	805	739	656	616	565							
S1-10-440-D	1/12	1550	170 W	5.9	924	869	801	763	777	641						
S1-12-426-D	1/10	1550	105 W	6.6	1113	1055	976	930	878	749	609	428				
S1-12-436-G		1350	120 W	7.5	1269	1203	1101	1048	974	780	359					
S1-12-432-E	1/20	1050	125 W	4.3	982	878	745	678	623	464	383					
S1-12-432-G	1/12	1350	170 W	6.0	1262	1185	1098	1038	987	886	798	721	540			
S1-12-432-D	1/8	1550	190 W	7.5	1449	1383	1309	1271	1225	1129	1042	953	861	615	478	
S1-12-432-C8		860	0.03	4.0	804	664	512	438	349	249						
S1-12-432-B6	1/6	1160	0.07	4.8	1084	991	872	816	755	660	503	431				
S1-12-432-A4	1/4	1750	0.27	8.7	1636	1577	1515	1481	1447	1365	1282	1207	1085	947	706	585
S1-14-440-C8	1/8	860	0.07	5.9	1189	1055	919	711	649	551	408					
S1-14-440-B6	1/6	1160	0.15	7.3	1604	1493	1406	1350	1297	1207	908	837	720			
S1-14-432-A4	1/4	1750	0.29	12.9	2404	2351	2299	2273	2245	2189	2134	2052	1912	1636		
S1-14-436-A3	1/3		0.39	14.8	2734	2674	2615	2585	2553	2487	2422	2340	2192	1829	1220	
S1-16-436-C8	1/8	860	0.12	5.0	2003	1876	1732	1621	1433	1037	849	705				
S1-16-426-B6	1/6	1160	0.15	7.5	2108	2027	1942	1894	1846	1725	1588					
S1-16-428-B6			0.19	7.6	2235	2148	2058	2012	1964	1840	1710	1534	1126			
S1-16-436-B4	1/4	1750	0.29	9.5	2702	2609	2512	2461	2410	2281	2067	1761	1359	1049		
S1-16-421-A3	1/3		0.38	13.5	2552	2506	2461	2438	2415	2367	2309	2252	2143	1916		
S1-16-428-A5	1/2	1750	0.63	15.3	3372	3315	3257	3228	3199	3140	3078	3016	2908	2700	2468	1861
S1-16-436-A7	3/4		0.89	16.6	4076	4015	3954	3923	3892	3828	3760	3693	3591	3349	2902	2298
S1-18-434-C8	1/8	860	0.15	8.7	2661	2464	2202	2032	1874	1346						
S1-18-436-C6	1/6		0.19	9.2	2778	2595	2319	2102	1963	1385	1108	912				
S1-18-424-B6	1/4	1160	0.20	6.7	2800	2690	2568	2501	2427	2257	2025	1828				
S1-18-429-B4			0.30	7.2	3238	3120	2987	2908	2828	2668	2434	2145	1510	1183		
S1-18-436-B3	1/3	1750	0.45	12.6	3747	3621	3466	3370	3267	3034	2732	2548	1727	1363		
S1-18-424-A5	1/2		0.67	15.7	4224	4151	4079	4043	4006	3925	3835	3745	3592	3252		
S1-18-429-A7	3/4	860	0.88	17.4	4885	4807	4729	4690	4651	4565	4460	4354	4196	3926	3460	2984
S1-20-428-C6	1/6		0.19	10.8	3133	3001	2823	2727	2641	2390						
S1-20-436-C4	1/4	1160	0.29	11.7	3888	3717	3523	3420	3285	2918	2237	2091	1873			
S1-20-424-B4			0.30	13.8	3655	3561	3467	3419	3364	3255	3095	2924	2661			
S1-20-428-B3	1/3	1750	0.45	14.3	4227	4128	4030	3974	3901	3755	3621	3493	3175			
S1-20-436-B5	1/2		0.70	14.4	5245	5118	4991	4926	4849	4697	4525	4321	3863	2920	2650	
S1-20-420-A7	3/4	860	0.87	24	4682	4617	4552	4519	4486	4421	4362	4303	4215	4036	3810	
S1-20-428-A10	1		1.19	25	6377	6311	6246	6214	6181	6116	6050	5965	5820	5580	5368	5087
S1-20-432-A15	1-1/2	1160	1.73	26	7115	7038	6962	6924	6886	6809	6733	6653	6518	6292	6016	5688
S1-24-432-C4	1/4		0.34	9.1	5000	4767	4540	4409	4233	3789						
S1-24-436-C3	1/3	860	0.41	10.0	5457	5232	5002									
S1-24-437-C5	1/2		0.58	11.6	6136	5953	5764	5631	5497	5150	4720	4341				
S1-24-428-B5	3/4	1160	0.61	14.1	5908	5794	5680	5623	5566	5382	5175	4898				
S1-24-432-B7			0.83	14.7	6745	6572	6399	6313	6229	6064	5830	5569	5007			

Performance certified is for installation type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet hemispherical sone levels.

SCR3-Direct Drive - Level 3

Reversible



Model Number	Motor HP	Fan RPM	Max BHP	Sones @ Free Air	CFM / Static Pressure in Inches WG											
					0.00	0.05	0.10	0.125	0.15	0.20	0.25	0.30	0.375	0.50	0.625	0.75
24 Performance																
SCR3-24-627-C4	1/4	860	0.29	16.7	4981	4664	4269	4007	3498							
SCR3-24-632-C3	1/3		0.35	16.9	5478	5153	4731	4391	3789							
SCR3-24-416-B4	1/4	1160	0.29	18.1	4521	4241	3949	3784	3619	3015	2232					
SCR3-24-420-B3	1/3		0.37	19.3	5200	4904	4597	4434	4271	3815	2837					
SCR3-24-623-B5	1/2		0.58	22	6093	5869	5627	5499	5371	5029	4529	3791				
SCR3-24-632-B7	3/4	1750	0.86	27	7389	7148	6896	6739	6582	6207	5689					
SCR3-24-410-A5	1/2		0.57	32	5233	5028	4828	4730	4632	4403	4167	3921	3364			
SCR3-24-414-A7	3/4		0.83	34	6297	6114	5930	5834	5738	5546	5331	5108	4625			
SCR3-24-418-A10	1		1.15	35	7332	7141	6949	6853	6752	6552	6348	6112	5758	4623		
SCR3-24-425-A15	1-1/2	2	1.67	38	8928	8701	8474	8364	8259	8050	7831	7581	7160	6055		
SCR3-24-626-A20	2		2.31	41	9935	9786	9636	9561	9486	9325	9155	8984	8707	8111	6996	
30 Performance																
SCR3-30-415-C4	1/4	860	0.29	16.6	6262	5732	5131	4718	4013							
SCR3-30-419-C3	1/3		0.38	17.2	7219	6523	5854	5466	4860							
SCR3-30-620-C5	1/2		0.56	18.8	8118	7694	7218	6953	6682	5738						
SCR3-30-629-C7	3/4	1160	0.84	20	9694	9233	8450	7977	7404							
SCR3-30-412-B5	1/2		0.58	24	7490	7051	6640	6429	6211	5688	4914					
SCR3-30-418-B7	3/4		0.88	27	9414	8921	8440	8206	7968	7466	6763	5490				
SCR3-30-423-B10	1		1.14	29	10658	10134	9606	9329	8999	8338	7672	6255				
SCR3-30-624-B15	1-1/2	2	1.74	33	12167	11796	11425	11239	11041	10647	10032	9244	8158			
SCR3-30-630-B20	2		2.18	35	13226	12911	12595	12375	11987	11233	10437	9304				
SCR3-30-407-A10	1	1750	1.21	47	8583	8290	7998	7882	7765	7533	7258	6770	6243			
SCR3-30-410-A15	1-1/2		1.63	46	10337	10022	9712	9571	9429	9146	8892	8652	8266	7375		
SCR3-30-413-A20	2		2.09	45	11779	11498	11216	11077	10943	10673	10403	10114	9643	8634		
SCR3-30-420-A30	3		3.34	53	15176	14806	14437	14258	14084	13737	13393	13070	12585	11691	10359	
SCR3-30-623-A50	5	5	63	17896	17658	17419	17300	17180	16942	16703	16454	16067	15380	14269	13199	
36 Performance																
SCR3-36-412-C5	1/2	860	0.55	23	9047	8380	7589	7156	6726							
SCR3-36-419-C7	3/4		0.85	23	12243	11532	10734	10259	9750	8734						
SCR3-36-425-C10	1		1.15	27	14110	13544	12541	12029	11535	10271	8338					
SCR3-36-628-C15	1-1/2	1160	1.74	31	16432	15855	15258	14814	14370	13429	12309					
SCR3-36-406-B7	3/4		0.84	38	9490	8991	8415	8053	7676							
SCR3-36-410-B10	1		1.14	38	10863	10436	9964	9700	9412	8797	8226	7493				
SCR3-36-415-B15	1-1/2		1.71	38	14215	13624	13075	12814	12552	11874	11201	10530	9442			
SCR3-36-616-B20	2	5	2.2	44	15749	15311	14874	14666	14468	14071	13650	13183	12407			
SCR3-36-623-B30	3		3.44	49	19714	19293	18873	18658	18420	17943	17467	16951	16028	14204		
SCR3-36-630-B50	5	4.66	51	23117	22703	22290	22083	21876	21222	20473	19750	18648	16179			
42 Performance																
SCR3-42-415-C10	1	860	1.15	30	16078	14907	13968	13436	12804	11234						
SCR3-42-422-C15	1-1/2		1.77	35	18875	17758	16552	15875	15182	13699	11683					
SCR3-42-621-C20	2		2.28	36	21190	20336	19478	19048	18614	17612	16541	15213				
SCR3-42-630-C30	3	1160	3.48	43	24181	23243	22221	21682	20821	18963	17704	16613				
SCR3-42-408-B15	1-1/2		1.76	50	15026	14328	13600	13216	12824	11978	10952	9650	7136			
SCR3-42-412-B20	2		2.33	51	18959	18189	17432	17066	16700	15890	15029	14017	11855			
SCR3-42-418-B30	3		3.47	54	23445	22661	21885	21501	21117	20314	19400	18384	16497			
SCR3-42-621-B50	5	7-1/2	5.54	60	28583	27949	27315	26999	26680	26042	25405	24704	23590	21563		
SCR3-42-630-B75	7-1/2		8.55	73	32616	31921	31226	30878	30483	29683	28884	27018	25357	23149		
48 Performance																
SCR3-48-414-C15	1-1/2	860	1.69	40	22448	21297	19941	19200	18353	16384	14153					
SCR3-48-418-C20	2		2.27	42	25619	24430	23020	22243	21306	19279	16958	14401				
SCR3-48-620-C30	3		3.52	48	30092	29264	28435	27770	27003	25523	24096	22719	19594			
SCR3-48-629-C50	5	1160	5.6	56	35190	33738	32249	31430	30610	28531	26291	24091	20049			
SCR3-48-403-B15	1-1/2		1.6	56	14101	13313	12413	11885	11323	10099	8759					
SCR3-48-407-B20	2		2.31	69	20861	20047	19222	18773	18324	17285	16039	14683	12327			
SCR3-48-412-B30	3		3.57	69	28014	27172	26330	25844	25330	24303	23202	22039	19654	15119		
SCR3-48-418-B50	5	7-1/2	5.57	72	34556	33674	32792	32352	31787	30634	29386	27973	25647	21187		
SCR3-48-417-B75	7-1/2		8.95	69	37004	36466	35928	35659	35390	34852	34216	33475	32363	30250	27397	
SCR3-48-420-B100	10	11.14	75	41055	40543	40032	39776	39520	39008	38383	37504	36185	34026	31482	28124	
54 Performance																
SCR3-54-409-C20	2	860	2.38	51	26479	25468	24556	24145	23734	22661	21344	19757	16344			
SCR3-54-410-C30	3		3.37	53	28003	26997	26093	25707	25320	24416	23141	21715	18977			
SCR3-54-417-C50	5		5.81	52	37090	35925	34761	34229	33715	32688	31591	30131	27681	21769		
SCR3-54-618-C75	7-1/2		8.46	61	41795	40904	40014	39569	39124	38309	37501	36693	35197	31916	25633	
SCR3-54-625-C100	10	11.7	68	50142	49192	48243	47768	47283	46066	44850	43285	40770	37198	33806		

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Using The Performance Table

Shown below is a portion of a typical performance table used in this catalog. Performance data shown offers the best selections for each propeller type (“L” or “H”) relative to sound, RPM, and static pressure.

Consider “L” type propellers first for most applications.

Many sidewall applications can be met with the “L” type propeller. When using the performance tables, look first at the “L” selections, because they offer the lowest speed and sound levels.

Model Number	Motor HP	Fan RPM	Max BHP	*Sones	CFM / Static Pressure in Inches WG														
					0.00	0.10	0.125	0.15	0.20	0.25	0.30	0.375	0.50	0.625	0.75	1.00			
Level 1 Performance		Max RPM L - 1085 H - 1221		Max Motor Frame Size - 56								TS = RPM x 5.235							
SB-1L20-4	1/4	705	0.17	11.6	3606	2836	2451												
		810	0.25	13.3	4143	3510	3325	3084											
		861	0.30	14.3	4404	3795	3672	3455											
SB-1H20-4	1/4	773	0.17	11.1	2904	2453	2293	2112	1596	924	676	304							
		892	0.27	14.1	3351	2987	2873	2744	2436	2011	1409	886	348						
		953	0.30	16.2	3581	3247	3148	3034	2769	2469	2002	1160	657						
SB-1L20-3	1/3	889	0.33	14.9	4547	3950	3830	3655	3067										
		947	0.40	16.1	4844	4271	4156	4044	3648										
SB-1H20-3	1/3	998	0.37	16.7	3750	3436	3342	3244	3006	2727	2398	1588	873	393					
		1039	0.40	17.2	3904	3608	3517	3427	3212	2954	2676	2037	1064	603					
		1021	0.50	17.0	5222	4675	4566	4461	4181	3747									
SB-1L20-5	1/2	1085	0.60	17.9	5550	5021	4919	4817	4621	4269	3712								
		1107	0.50	18.0	4159	3885	3805	3720	3534	3315	3065	2599	1368	935	502				
SB-1H20-5	1/2	1221	0.60	20	4587	4339	4277	4203	4049	3873	3675	3333	2514	1456	1064				

“L” type low pressure propeller

“H” type high pressure propeller

Shows level of construction based on fan RPM & motor frame size. See Performance Charts.

Note that each max. BHP is cataloged at a 1.0 and 1.2 service factor.

Optimum selection range for the “L” type propeller.

Optimum selection range for the “H” type propeller.

CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.

SB-20 Belt Drive - Fabricated Propeller

Model Number	Motor HP	Fan RPM	Max BHP	*Sones	CFM / Static Pressure in Inches WG													
					0.00	0.10	0.125	0.15	0.20	0.25	0.30	0.375	0.50	0.625	0.75	1.00		
Level 1 Performance		Max RPM L - 1085 H - 1221		Max Motor Frame Size - 56								TS = RPM x 5.235						
SB-1L20-4	1/4	705	0.17	11.6	3606	2836	2451											
		810	0.25	13.3	4143	3510	3325	3084										
		861	0.30	14.3	4404	3795	3672	3455										
SB-1H20-4	1/4	773	0.17	11.1	2904	2453	2293	2112	1596	924	676	304						
		892	0.27	14.1	3351	2987	2873	2744	2436	2011	1409	886	348					
		953	0.30	16.2	3581	3247	3148	3034	2769	2469	2002	1160	657					
SB-1L20-3	1/3	889	0.33	14.9	4547	3950	3830	3655	3067									
		947	0.40	16.1	4844	4271	4156	4044	3648									
SB-1H20-3	1/3	998	0.37	16.7	3750	3436	3342	3244	3006	2727	2398	1588	873	393				
		1039	0.40	17.2	3904	3608	3517	3427	3212	2954	2676	2037	1064	603				
		1021	0.50	17.0	5222	4675	4566	4461	4181	3747								
SB-1L20-5	1/2	1085	0.60	17.9	5550	5021	4919	4817	4621	4269	3712							
		1107	0.50	18.0	4159	3885	3805	3720	3534	3315	3065	2599	1368	935	502			
SB-1H20-5	1/2	1221	0.60	20	4587	4339	4277	4203	4049	3873	3675	3333	2514	1456	1064			
		Level 2 Performance		Max RPM L - 1241 H - 1391		Max Motor Frame Size - 143T								TS = RPM x 5.235				
SB-2L20-5	1/2	1021	0.50	17.0	5222	4675	4566	4461	4181	3747								
		1085	0.60	17.9	5550	5021	4919	4817	4621	4269	3712							
		1107	0.50	18.0	4159	3885	3805	3720	3534	3315	3065	2599	1368	935	502			
SB-2H20-5	1/2	1221	0.60	20	4587	4339	4277	4203	4049	3873	3675	3333	2514	1456	1064			
		SB-2L20-7	3/4	1168	0.75	20	5974	5466	5371	5275	5090	4861	4527					
1241	0.90			22	6348	5853	5764	5674	5496	5325	5053	4479						
SB-2H20-7	3/4			1262	0.75	21	4742	4501	4441	4375	4226	4065	3883	3562	2849	1635	1255	495
		1391	0.90	25	5226	5008	4954	4899	4774	4639	4493	4244	3741	3005	1886	1138		

Performance certified is for installation type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet hemispherical sone levels. *Sones shown apply to the highest cataloged CFM in black type at each fan RPM. For selections at other CFM and static pressure points, refer to CAPS®, the Computer Aided Product Selection Program.

SB-24 Belt Drive Fabricated Propeller



Model Number	Motor HP	Fan RPM	Max BHP	*Sones	CFM / Static Pressure in Inches WG													
					0.00	0.10	0.125	0.15	0.20	0.25	0.30	0.375	0.50	0.625	0.75	1.00		
Level 1 Performance		Max RPM L - 809 H - 1010			Max Motor Frame Size - 56						TS = RPM x 6.283							
SB-1L24-4	1/4	513	0.19	10.3	4818	3784												CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.
		558	0.25	11.0	5241	4402	3971											
		593	0.30	11.8	5569	4803	4551	4050										
SB-1H24-4	1/4	674	0.17	10.2	3524	2894	2680	2416	1616	1155	821							
		785	0.30	13.3	4105	3618	3445	3267	2848	2105	1655	1133	444					
SB-1L24-3	1/3	614	0.33	12.4	5766	5040	4807	4396										
		653	0.40	12.8	6133	5466	5256	5037										
SB-1H24-3	1/3	829	0.33	14.8	4335	3877	3734	3568	3220	2595	2006	1445	769					
		877	0.36	16.1	4586	4157	4041	3887	3564	3179	2472	1845	1108	491				
SB-1L24-5	1/2	704	0.50	13.8	6612	6000	5831	5628	4992									
		748	0.60	14.8	7025	6455	6300	6128	5723	4939								
SB-1H24-5	1/2	961	0.55	18.5	5025	4641	4535	4428	4145	3846	3485	2574	1701	1103	540			
		1010	0.60	19.9	5281	4920	4819	4717	4471	4193	3902	3093	2108	1439	904			
SB-1L24-7	3/4	775	0.67	15.5	7279	6732	6582	6430	6061	5383								
		809	0.76	17.4	7598	7079	6935	6792	6454	5948	5237							
Level 2 Performance		Max RPM L - 986 H - 1148			Max Motor Frame Size - 145T						TS = RPM x 6.283							
SB-2L24-5	1/2	688	0.47	13.5	6461	5833	5652	5444	4730									
		704	0.50	13.8	6612	6000	5831	5628	4992									
		748	0.60	14.8	7025	6455	6300	6128	5723	4939								
SB-2H24-5	1/2	961	0.55	18.5	5025	4641	4535	4428	4145	3846	3485	2574	1701	1103	540			
		1010	0.60	19.9	5281	4920	4819	4717	4471	4193	3902	3093	2108	1439	904			
SB-2L24-7	3/4	805	0.75	17.1	7560	7038	6894	6750	6408	5882	5170							
		856	0.90	21	8039	7555	7419	7284	6989	6654	6011							
SB-2H24-7	3/4	1110	0.85	23	5804	5476	5392	5299	5115	4872	4619	4200	2975	2199	1601	626		
		1148	0.90	25	6003	5685	5606	5518	5340	5122	4882	4502	3343	2510	1853	910		
SB-2L24-10	1	886	1.00	23	8321	7856	7726	7595	7326	7003	6512							
		942	1.20	28	8847	8409	8294	8171	7925	7643	7340	6476						
SB-2L24-15	1-1/2	960	1.27	30	9016	8587	8476	8355	8114	7847	7549	6769						
		986	1.37	33	9260	8842	8738	8620	8385	8139	7849	7205						

Performance certified is for installation type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet hemispherical sone levels. *Sones shown apply to the highest cataloged CFM in black type at each fan RPM. For selections at other CFM and static pressure points, refer to CAPS®, the Computer Aided Product Selection Program.

SB-42 Belt Drive Fabricated Propeller

Model Number	Motor HP	Fan RPM	Max BHP	*Sones	CFM / Static Pressure in Inches WG																
					0.00	0.10	0.125	0.15	0.20	0.25	0.30	0.375	0.50	0.625	0.75	1.00					
Level 1 Performance		Max RPM L - 424 H - 533			Max Motor Frame Size - 145T						TS = RPM x 10.995										
SB-1L42-3	1/3	250	0.24	9.4	11651																
		275	0.33	10.3	12816	8583															
		294	0.40	11.1	13701	10026															
SB-1H42-3	1/3	314	0.25	9.4	10844	7332															
		345	0.33	11.1	11915	9126	7744														
		369	0.40	12.6	12744	10191	9283														
SB-1L42-5	1/2	316	0.50	12.0	14726	11363	10252														
		335	0.60	13.0	15612	12415	11671	10248													
SB-1H42-5	1/2	400	0.51	14.7	13814	11527	10841	9931													
		426	0.61	16.3	14712	12605	11980	11333													
SB-1L42-7	3/4	362	0.75	14.5	16870	13939	13189	12422													
		385	0.92	15.8	17942	15273	14451	13804	11298												
SB-1H42-7	3/4	460	0.78	18.5	15887	13987	13420	12834	11361												
		482	0.90	20	16646	14868	14327	13784	12592	10507											
SB-1L42-10	1	398	1.00	16.8	18548	16016	15189	14528	12837												
		424	1.21	18.8	19759	17478	16705	15953	14777												
SB-1H42-10	1	500	1.00	20	17268	15573	15060	14539	13448	11853											
		533	1.22	21	18408	16849	16388	15899	14900	13752	11887										
Level 2 Performance		Max RPM L - 723 H - 907			Max Motor Frame Size - 184T						TS = RPM x 10.995										
SB-2L42-10	1	398	1.00	16.8	18548	16016	15189	14528	12837												
		424	1.21	18.8	19759	17478	16705	15953	14777												
SB-2H42-10	1	500	1.00	21	17268	15573	15060	14539	13448	11853											
		533	1.22	22	18408	16849	16388	15899	14900	13752	11887										
SB-2L42-15	1-1/2	456	1.50	21	21251	19152	18532	17809	16577	15188											
		484	1.80	23	22555	20599	20064	19420	18117	17086	15458										
SB-2H42-15	1-1/2	577	1.53	24	19927	18529	18109	17678	16773	15831	14681										
		608	1.81	26	20998	19701	19302	18903	18053	17182	16275	14193									
SB-2L42-20	2	502	2.01	24	23394	21521	21006	20440	19128	18098	16824										
		532	2.40	27	24792	23046	22560	22074	20881	19757	18819	16579									
SB-2H42-20	2	630	2.00	28	21758	20527	20142	19757	18951	18122	17251	15564									
		673	2.41	31	23243	22131	21771	21411	20682	19906	19122	17893									
SB-2L42-30	3	575	3.01	32	26796	25212	24762	24312	23339	22193	21216	19836									
		611	3.65	31	28474	26984	26586	26162	25316	24279	23201	21952	18527								
SB-2H42-30	3	721	3.00	36	24900	23864	23572	23236	22564	21861	21137	20017	17604								
		766	3.61	40	26455	25479	25235	24931	24298	23664	22982	21961	20125	16908							
SB-2L42-50	5	681	5.08	36	31736	30400	30066	29712	28952	28192	27265	25814	23967	20093							
		723	6.00	39	33693	32435	32120	31805	31102	30386	29642	28275	26322	24165							
SB-2H42-50	5	853	4.99	48	29459	28583	28364	28145	27603	27035	26466	25556	24003	22312	19563						
		907	5.95	56	31324	30500	30294	30088	29630	29095	28561	27738	26299	24797	22915						

Performance certified is for installation type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet hemispherical sone levels. *Sones shown apply to the highest cataloged CFM in black type at each fan RPM. For selections at other CFM and static pressure points, refer to CAPS®, the Computer Aided Product Selection Program.

SB-48 Belt Drive Fabricated Propeller



Model Number	Motor HP	Fan RPM	Max BHP	*Sones	CFM / Static Pressure in Inches WG																				
					0.00	0.10	0.125	0.15	0.20	0.25	0.30	0.375	0.50	0.625	0.75	1.00									
Level 1 Performance		Max RPM L - 355 H - 429			Max Motor Frame Size - 145T							TS = RPM x 12.566													
SB-1L48-5	1/2	231	0.31	8.6	14885																				
		266	0.50	9.7	17140	12381																			
		282	0.60	10.5	18171	14077	11902																		
SB-1H48-5	1/2	278	0.33	9.6	14144	9240																			
		320	0.50	11.3	16281	12822	11273	8844																	
SB-1L48-7	3/4	341	0.61	12.3	17349	14214	13047	11371																	
		305	0.76	11.8	19653	16196	14706	12401																	
SB-1H48-7	3/4	324	0.91	13.0	20877	17700	16601	14948																	
		368	0.76	13.6	18723	15953	15022	13860																	
SB-1L48-10	1	393	0.93	15.5	19995	17450	16655	15783	13052																
		335	1.00	13.7	21586	18559	17626	16200																	
SB-1H48-10	1	355	1.20	15.4	22875	20096	19220	18193	14778																
		408	1.04	16.4	20758	18314	17617	16777	14587																
		429	1.21	1.3	21827	19513	18907	18147	16322	13506															
Level 2 Performance		Max RPM L - 608 H - 734			Max Motor Frame Size - 184T							TS = RPM x 12.566													
SB-2L48-10	1	335	1.00	13.7	21586	18559	17626	16200																	
		355	1.20	15.4	22875	20096	19220	18193	14778																
SB-2H48-10	1	408	1.04	16.4	20758	18314	17617	16777	14587																
		429	1.21	19.3	21827	19513	18907	18147	16322	13506															
SB-2L48-15	1-1/2	384	1.51	17.9	24744	22197	21482	20668	18419																
		407	1.80	18.9	26226	23841	23203	22474	20720	17923															
SB-2H48-15	1-1/2	462	1.51	21	23506	21374	20811	20248	18770	16860	13759														
		491	1.81	22	24981	22990	22460	21930	20671	19129	16981														
SB-2L48-20	2	422	2.00	19.6	27192	24904	24289	23637	22154	19746															
		448	2.40	21	28868	26733	26154	25575	24229	22469	19898														
SB-2H48-20	2	509	2.02	23	25897	23985	23474	22963	21831	20485	18700	14388													
		540	2.41	24	27474	25681	25206	24724	23761	22529	21119	18065													
SB-2L48-30	3	483	3.03	23	31123	29170	28633	28096	26963	25668	23839	19730													
		513	3.60	28	33056	31241	30735	30230	29218	28043	26799	23721													
SB-2H48-30	3	582	3.01	27	29611	27947	27527	27081	26187	25232	24055	21925													
		618	3.61	29	31442	29875	29484	29078	28236	27395	26391	24703	20285												
SB-2L48-50	5	572	5.02	33	36858	35237	34822	34368	33461	32554	31504	29811	24906												
		608	5.99	36	39177	37652	37271	36864	36010	35157	34288	32745	29209												
SB-2H48-50	5	688	4.99	34	35004	33596	33244	32893	32158	31402	30646	29317	26560	22373											
		734	6.05	39	37344	36025	35695	35365	34700	33991	33283	32220	29911	26937	22215										

CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.

Performance certified is for installation type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet hemispherical sone levels. *Sones shown apply to the highest cataloged CFM in black type at each fan RPM. For selections at other CFM and static pressure points, refer to CAPS®, the Computer Aided Product Selection Program.

SB-54 Belt Drive Fabricated Propeller



Model Number	Motor HP	Fan RPM	Max BHP	*Sones	CFM / Static Pressure in Inches WG														
					0.00	0.10	0.125	0.15	0.20	0.25	0.30	0.375	0.50	0.625	0.75	1.00			
Level 2 Performance		Max RPM L - 508 H - 562			Max Motor Frame Size - 184T						TS = RPM x 13.135								
SB-2L54-15	1-1/2	325	1.56	16.5	28548	25088	24008	22726	18692										
		343	1.81	17.3	30129	26851	26014	24825	21850										
SB-2H54-15	1-1/2	355	1.52	17.4	27149	24310	23414	22509	20237										
		377	1.82	19.0	28832	26243	25408	24557	22802	19924									
SB-2L54-20	2	356	2.00	18.0	31271	28113	27322	26297	23790										
		380	2.46	19.6	33379	30420	29680	28940	26821	23826									
SB-2H54-20	2	390	2.01	20	29826	27374	26567	25750	24103	21767									
		414	2.41	22	31662	29444	28684	27924	26374	24628	21971								
SB-2L54-30	3	408	3.07	22	35839	33083	32394	31704	30019	27876	24657								
		433	3.61	26	38035	35439	34789	34139	32810	30926	28749								
SB-2H54-30	3	446	3.01	26	34109	32145	31468	30762	29338	27897	26104								
		474	3.61	30	36250	34402	33873	33209	31882	30526	29170	26145							
SB-2L54-50	5	478	4.87	35	41988	39636	39048	38459	37283	36006	34299	31347							
		508	5.97	44	44623	42410	41857	41303	40196	39088	37699	35194	28363						
SB-2H54-50	5	528	4.99	35	40380	38721	38307	37854	36662	35469	34252	32427	27435						
		562	6.03	40	42980	41422	41032	40643	39618	38498	37370	35655	32079						
Level 3 Performance		Max RPM L - 619 H - 779			Max Motor Frame Size - 254T						TS = RPM x 13.135								
SB-3L54-30	3	339	1.97	20	29862	26277	25025	23452	19663										
		390	3.01	25	34354	31312	30531	29462	26898	24533	21251								
		415	3.61	27	36557	33708	32974	32162	30005	27535	24061								
SB-3H54-30	3	430	2.03	27	27612	25569	25157	24640	23580	22036	20032								
		491	3.00	33	31529	29634	29274	28913	28053	27125	25868	23501							
		526	3.62	38	33776	31946	31609	31272	30565	29698	28831	26933							
SB-3L54-50	5	463	5.01	40	40785	38252	37593	36935	35395	33426	31153	26792							
		492	6.02	44	43339	40968	40348	39728	38489	36778	34740	31783	26116						
SB-3H54-50	5	584	5.01	48	37501	35765	35447	35144	34537	33881	33101	31897	28836						
		618	6.02	52	39684	38044	37683	37396	36823	36250	35558	34451	32025	28547					
SB-3L54-75	7-1/2	530	7.51	46	46687	44501	43926	43351	42200	40903	39302	36323	30423						
		563	9.03	49	49594	47550	47008	46467	45384	44301	42910	40440	36084	30683					
SB-3H54-75	7-1/2	666	7.38	57	42766	41244	40864	40558	40026	39494	38962	37956	36129	33526					
		710	9.02	63	45591	44164	43807	43450	42943	42444	41945	41121	39515	37449	34796				
SB-3L54-100	10	584	10.04	51	51443	49482	48960	48438	47394	46350	45173	42994	38597	33058					
		619	12.00	56	54526	52685	52198	51706	50721	49736	48751	46840	42826	39077	33870				
SB-3H54-100	10	738	10.01	68	47389	46016	45673	45329	44791	44311	43831	43111	41571	39835	37550				
		779	12.00	75	50022	48721	48396	48070	47487	47032	46578	45895	44548	43085	41129	35732			

Performance certified is for installation type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet hemispherical sone levels. *Sones shown apply to the highest cataloged CFM in black type at each fan RPM. For selections at other CFM and static pressure points, refer to CAPS®, the Computer Aided Product Selection Program.

SB-60 Belt Drive Fabricated Propeller



Model Number	Motor HP	Fan RPM	Max BHP	*Sones	CFM / Static Pressure in Inches WG													
					0.00	0.10	0.125	0.15	0.20	0.25	0.30	0.375	0.50	0.625	0.75	1.00		
Level 2 Performance		Max RPM L - 399 H - 521			Max Motor Frame Size - 215T						TS = RPM x 15.691							
SB-2L60-15	1-1/2	219	0.99	11.8	29223													CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.
		252	1.52	14.9	33627	26297												
		267	1.80	16.7	35628	28888	26731											
SB-2H60-15	1-1/2	285	0.98	19.3	25029	21665	20507	19031										
		328	1.50	23	28805	25931	25163	24307	21827									
		348	1.81	25	30561	27858	27152	26428	24458	21479								
SB-2L60-20	2	277	2.01	17.9	36963	30532	28569											
		294	2.41	20	39231	33280	31524	29592										
SB-2H60-20	2	361	2.01	26	31703	29065	28432	27734	25998	23625								
		383	2.41	28	33635	31095	30577	29920	28558	26588	23870							
SB-2L60-30	3	317	3.02	23	42300	36880	35324	33661										
		337	3.63	25	44969	39902	38533	37026	33664									
SB-2H60-30	3	415	3.01	31	36445	34024	33548	33054	31839	30400	28519							
		438	3.60	34	38465	36115	35664	35214	34128	32978	31354	28368						
SB-2L60-50	5	375	5.00	28	50040	45536	44345	43137	40410	37274								
		399	6.02	31	53242	49009	47929	46800	44361	41676	38401							
SB-2H60-50	5	489	5.00	42	42944	40718	40314	39911	39104	38087	37057	34972	29773					
		521	6.01	47	45754	43590	43208	42830	42072	41233	40266	38708	34835					
Level 3 Performance		Max RPM L - 503 H - 659			Max Motor Frame Size - 256T						TS = RPM x 15.691							
SB-3L60-50	5	317	3.02	23	42300	36880	35324	33661										
		375	5.00	28	50040	45536	44345	43137	40410	37274								
		399	6.02	31	53242	49009	47929	46800	44361	41676	38401							
SB-3H60-50	5	415	3.01	31	36445	34024	33548	33054	31839	30400	28519							
		489	5.00	42	42944	40718	40314	39911	39104	38087	37057	34972	29773					
		521	6.01	47	45754	43590	43208	42830	42072	41233	40266	38708	34835					
SB-3L60-75	7-1/2	430	7.54	41	57379	53451	52469	51451	49333	46970	44412							
		457	9.05	56	60982	57286	56362	55438	53476	51359	49101	45184						
SB-3H60-75	7-1/2	559	7.51	51	49091	47075	46626	46274	45568	44862	44021	42669	39714	35627				
		595	9.00	56	52253	50358	49884	49518	48855	48192	47529	46261	43933	40629	35715			
SB-3L60-100	10	473	10.04	67	63117	59546	58653	57760	55891	53922	51775	48286						
		503	12.10	72	67120	63762	62923	62083	60374	58582	56644	53530						
SB-3H60-100	10	615	10.00	60	54009	52176	51718	51314	50673	50031	49389	48236	46188	43214	39510			
		659	12.00	70	57873	56163	55735	55307	54653	54054	53455	52537	50625	48395	45470			

SB-72 Belt Drive

Level 3 Performance		Max RPM L - 492 H - 559			Max Motor Frame Size - 256T						TS = RPM x 18.802							
SB-3L72-30	3	236	2.00	17.5	41661	36581	34402	32305										
		271	3.02	20	47840	43440	42315	40635	36937									
		288	3.61	22	50841	46713	45654	44576	40999									
SB-3H72-30	3	266	2.00	24	40185	35934	34790	33352	29513									
		306	3.01	28	46228	42491	41629	40634	38280	35026								
		324	3.61	30	48947	45342	44616	43707	41829	39122	35680							
SB-3L72-50	5	321	5.05	26	56667	52986	52036	51086	48805	45604	42580							
		341	6.01	29	60197	56743	55852	54958	53170	50373	47427							
SB-3H72-50	5	362	5.04	35	54688	51305	50655	50006	48405	46723	44302	39813						
		387	6.03	39	58465	55195	54588	53980	52646	51074	49325	45737						
SB-3L72-75	7-1/2	367	7.52	33	64787	61577	60768	59938	58276	56442	53627	49588						
		391	9.03	38	69024	66011	65258	64489	62930	61371	59275	55346						
SB-3H72-75	7-1/2	414	7.52	43	62543	59374	58806	58238	57102	55698	54228	51410	44663					
		442	9.01	50	66773	63726	63155	62623	61559	60428	59051	56986	51688					
SB-3L72-100	10	405	10.01	41	71495	68587	67859	67128	65622	64117	62514	58687						
		430	12.10	45	75909	73169	72484	71799	70395	68977	67559	64603	58769					
SB-3H72-100	10	456	10.02	51	68888	65934	65321	64806	63775	62743	61437	59435	54874	47671				
		486	12.00	57	73421	70649	69956	69464	68496	67529	66500	64622	60962	55889				
SB-3L72-150	15	463	15.10	52	81734	79190	78554	77918	76637	75320	74003	72027	66649	61379				
		492	18.00	57	86854	84459	83861	83262	82065	80838	79599	77740	73537	68410				
SB-3H72-150	15	522	15.00	64	78859	76279	75633	75025	74124	73223	72322	70752	67837	63842	58785			
		559	18.10	75	84449	82039	81436	80834	79872	79030	78189	76927	74244	71276	67313			

Performance certified is for installation type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet hemispherical sone levels. *Sones shown apply to the highest cataloged CFM in black type at each fan RPM. For selections at other CFM and static pressure points, refer to CAPS[®], the Computer Aided Product Selection Program.

SBC-54 Belt Drive Cast Aluminum



Model Number	Motor HP	Fan RPM	Max BHP	*Sones	CFM / Static Pressure in Inches WG														
					0.00	0.10	0.125	0.15	0.20	0.25	0.30	0.375	0.50	0.625	0.75	1.00			
54 Performance		Max RPM L - 727 H - 856			Max Motor Frame Size - 254T						TS = RPM x 14.135								
SBC-3L54-20	2	364	1.51	18.0	25482	21713	20664	19377											
		400	2.01	20	28002	24618	23706	22752	19950										
		425	2.41	22	29752	26685	25741	24882	22822										
SBC-3H54-20	2	429	1.51	21	25150	22604	21870	21035	19310	17043	13521								
		471	2.00	23	27612	25349	24701	24032	22511	20907	18781								
		501	2.41	26	29370	27282	26674	26066	24696	23254	21708	18049							
SBC-3L54-30	3	458	3.01	25	32062	29480	28382	27585	25914	23719									
		487	3.62	28	34092	31897	30843	29919	28420	26637	24050								
SBC-3H54-30	3	539	3.00	29	31598	29657	29143	28577	27407	26078	24712	22298							
		573	3.61	31	33591	31765	31309	30796	29731	28536	27286	25299	20153						
SBC-3L54-50	5	543	5.02	33	38013	36203	35539	34594	32996	31652	30072	26691							
		577	6.02	38	40393	38690	38264	37449	35716	34451	33186	30778							
SBC-3H54-50	5	639	5.00	37	37461	35823	35414	35004	34086	33131	32068	30386	27398	22327					
		680	6.02	41	39864	38325	37941	37556	36748	35851	34954	33382	30664	27125	21725				
SBC-3L54-75	7-1/2	621	7.51	44	43473	41891	41495	41090	39437	38008	36833	34916	30021						
		660	9.01	49	46203	44715	44342	43970	42720	41165	40006	38347	34940						
SBC-3H54-75	7-1/2	732	7.52	47	42913	41483	41126	40768	40054	39254	38421	37100	34654	32044	28344				
		778	9.03	53	45609	44264	43928	43592	42919	42229	41445	40269	38025	35671	33163	23604			
SBC-3L54-100	10	684	10.03	53	47883	46447	46088	45729	44718	43217	41935	40334	37224	30947					
		727	12.00	61	50894	49542	49204	48866	48191	46850	45438	43846	41235	37872					
SBC-3H54-100	10	805	10.02	55	47192	45892	45567	45242	44592	43942	43205	42068	39973	37748	35353	27829			
		856	12.03	61	50182	48959	48654	48348	47737	47126	46501	45432	43599	41507	39367	33873			

CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.

Performance certified is for installation type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet hemispherical sone levels. *Sones shown apply to the highest cataloged CFM in black type at each fan RPM. For selections at other CFM and static pressure points, refer to CAPS®, the Computer Aided Product Selection Program.

SBCR-24-72 Belt Drive

Reversible



Model Number	Motor HP	Fan RPM	Max BHP	Sones	CFM / Static Pressure in Inches WG											
					0.00	0.05	0.10	0.125	0.15	0.20	0.25	0.30	0.375	0.50	0.625	0.75
24 Performance					Max RPM = 1623					Max Motor Frame Size = 145T			TS = RPM x 6.283			
SBCR-24-4	1/4	841	0.24	14.2	4792	4447	4061	3827	3413							
SBCR-24-4		893	0.28	15.0	5088	4766	4411	4216	3961							
SBCR-24-3	1/3	983	0.39	16.6	5601	5312	5001	4829	4651	4127						
SBCR-24-5	1/2	1126	0.59	19.4	6416	6165	5898	5763	5618	5308	4892	3875				
SBCR-24-7	3/4	1288	0.89	23	7339	7119	6893	6774	6656	6406	6135	5807	4756			
SBCR-24-10	1	1418	1.13	27	8080	7880	7680	7572	7465	7249	7015	6769	6313			
SBCR-24-15	1-1/2	1623	1.77	35	9248	9074	8899	8812	8719	8531	8343	8148	7825	7171	5560	
30 Performance					Max RPM = 1506					Max Motor Frame Size = 184T			TS = RPM x 7.854			
SBCR-30-3	1/3	681	0.33	15.2	7420	6809	6030	5422								
SBCR-30-3		724	0.40	16.1	7889	7323	6622	6141	5545							
SBCR-30-5	1/2	829	0.60	18.8	9033	8553	8000	7667	7305	6276						
SBCR-30-7	3/4	949	0.90	23	10341	9921	9461	9217	8944	8304	7416					
SBCR-30-10	1	1045	1.20	27	11387	11006	10606	10385	10163	9650	9027	8221				
SBCR-30-15	1-1/2	1196	1.78	32	13032	12699	12367	12185	11992	11604	11160	10680	9682			
SBCR-30-20	2	1316	2.39	37	14339	14037	13735	13584	13417	13065	12713	12303	11634	10018		
SBCR-30-30	3	1506	3.58	47	16410	16146	15881	15749	15617	15332	15025	14717	14215	13217	11824	
36 Performance					Max RPM = 1420					Max Motor Frame Size = 184T			TS = RPM x 9.424			
SBCR-36-5	1/2	620	0.49	16.7	10384	9580	8639	8115	7177							
SBCR-36-5		659	0.57	18.1	11037	10299	9409	8967	8440							
SBCR-36-7	3/4	755	0.85	22	12645	12019	11258	10874	10495	9613						
SBCR-36-10	1	830	1.13	26	13901	13332	12675	12316	11969	11265	10429					
SBCR-36-15	1-1/2	951	1.79	30	15927	15431	14915	14602	14289	13677	13074	12361	10104			
SBCR-36-20	2	1046	2.26	35	17519	17067	16615	16359	16074	15505	14955	14407	13436			
SBCR-36-30	3	1198	3.40	44	20064	19670	19276	19079	18875	18378	17881	17396	16678	15294		
SBCR-36-50	5	1420	5.75	64	23782	23450	23117	22951	22784	22452	22043	21624	20995	19985	18886	17393
42 Performance					Max RPM = 1212					Max Motor Frame Size = 215T			TS = RPM x 10.995			
SBCR-42-5	1/2	530	0.50	17.2	12939	11634	9951	8604								
SBCR-42-5		563	0.60	18.6	13744	12530	11087	10017								
SBCR-42-7	3/4	644	0.90	23	15722	14691	13502	12884	12009							
SBCR-42-10	1	709	1.19	26	17308	16398	15341	14780	14218	12542						
SBCR-42-15	1-1/2	812	1.80	32	19823	19030	18145	17684	17200	16213	14810	12626				
SBCR-42-20	2	893	2.46	37	21800	21079	20306	19887	19467	18585	17625	16359	12952			
SBCR-42-30	3	1023	3.59	48	24974	24344	23715	23354	22988	22255	21484	20706	19154			
SBCR-42-50	5	1212	5.96	67	29588	29056	28525	28259	27983	27365	26747	26122	25137	23184	20457	
48 Performance					Max RPM = 1166					Max Motor Frame Size = 215T			TS = RPM x 12.566			
SBCR-48-7	3/4	509	0.74	21	18042	16152	13446	11755								
SBCR-48-7		541	0.89	22	19176	17432	15068	13528	11927							
SBCR-48-10	1	596	1.23	26	21126	19601	17641	16402	15002	11943						
SBCR-48-15	1-1/2	682	1.82	32	24174	22893	21309	20403	19418	16986	14441					
SBCR-48-20	2	750	2.42	37	26584	25419	24052	23305	22476	20552	18308	15990				
SBCR-48-30	3	859	3.58	45	30448	29431	28350	27706	27062	25649	24004	22085	19067			
SBCR-48-50	5	1018	5.97	62	36083	35225	34367	33934	33390	32303	31152	29930	27688	23511		
SBCR-48-75	7-1/2	1166	9.20	83	41329	40580	39831	39457	39082	38184	37235	36278	34678	31491	27851	24113
54 Performance					Max RPM = 920					Max Motor Frame Size = 254T			TS = RPM x 14.135			
SBCR-54-15	1-1/2	460	1.43	22	23743	22064	20143	18932	17613							
SBCR-54-15		489	1.78	24	25240	23683	21901	20962	19670	17383						
SBCR-54-20	2	538	2.38	27	27769	26390	24802	23961	23108	20807	18809					
SBCR-54-30	3	616	3.51	34	31795	30593	29260	28567	27848	26350	24285	22504				
SBCR-54-50	5	730	5.72	44	37679	36665	35622	35037	34451	33270	32012	30560	28033			
SBCR-54-75	7-1/2	836	8.97	56	43151	42265	41379	40921	40409	39387	38365	37273	35559	31893	27638	
SBCR-54-100	10	920	11.90	69	47486	46681	45876	45474	45058	44129	43200	42271	40785	37864	34642	31024
60 Performance					Max RPM = 811					Max Motor Frame Size = 256T			TS = RPM x 15.691			
SBCR-60-20	2	446	1.97	25	29819	27584	25099	23718	22220	18365						
SBCR-60-20		474	2.39	27	31691	29584	27337	26059	24741	21272						
SBCR-60-30	3	543	3.56	34	36304	34455	32649	31594	30479	28197	25170	22150				
SBCR-60-50	5	644	5.98	44	43057	41498	39960	39199	38438	36561	34662	32715	28612			
SBCR-60-75	7-1/2	737	8.96	56	49275	47912	46554	45889	45224	43877	42233	40590	38048	32357		
SBCR-60-100	10	811	11.90	69	54222	52984	51746	51134	50530	49321	48049	46555	44314	40222	34832	
72 Performance					Max RPM = 771					Max Motor Frame Size = 256T			TS = RPM x 18.802			
SBCR-72-20	2	371	2.00	26	38286	34158	29734	27617	25593							
SBCR-72-20		394	2.55	28	40659	36985	32714	30490	28675	24224						
SBCR-72-30	3	451	3.75	35	46542	43988	39709	37916	35972	32605	28738					
SBCR-72-50	5	535	6.32	47	55210	53296	49520	48026	46562	43398	40355	37687	31512			
SBCR-72-75	7-1/2	612	9.23	59	63156	61483	59068	57107	55633	53073	50315	47451	43930	33516		
SBCR-72-100	10	674	12.00	71	69554	68035	66516	64788	63007	60429	58104	55580	51763	46218		
SBCR-72-150	15	771	19.00	94	79564	78236	76908	76244	74957	71843	69602	67569	64378	58868	54239	48179

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