

# Hooded Roof Propeller Fans

## Belt and Direct Drive

Exhaust, Supply and Reversible



B U I L D I N G   V A L U E   I N   A I R .

 **GREENHECK**  
*Building Value in Air.*

February  
2024

# Hooded Roof Propeller Fans

## Exhaust Supply/Reversible Belt and Direct Drive



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From general ventilation of factories and warehouses to industrial duty, the range of construction and performance capabilities offered in this catalog represent the most comprehensive hooded propeller roof fan line available.



Greenheck Fan Corporation certifies that the RE2, RCE3, RS2, RCS3, RBE, RBCE, RBS, RBCS, RBF and RBCF 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.

Performance as catalogued is assured.



Hooded Propeller Roof Fan models are listed for electrical (UL/cUL 705) File no. E40001

\*UL is optional and must be specified

Regardless of fan size, performance or duty level, all Greenheck hooded propeller roof fans are built to perform with the same high standards of reliability and durability.

Exhaust, supply and reversible models are available in belt or direct drive. Filtered supply is also available. Propellers are available in fabricated steel, fabricated aluminum or cast aluminum. Drive frames and panels are constructed to match the level of duty and the motor size.

Greenheck offers a complete line of accessories, which include protective guards, tall bases, dampers, disconnect switches and special coatings.

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

Greenheck offers added value to our wide selection of top performing, energy-efficient products by providing several unique service programs.



Our Quick Delivery program ensures shipment of in-stock products within 24 hours of placing your order. Our Quick Build made-to-order products are manufactured in 1-3-5-10-15 or 25-day production cycles, depending upon its complexity.



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.



Our 3D service allows you to download, at no charge, easy-to-use AutoDesk® Revit® 3D drawings for many of our ventilation products.

Find out more about these special services at [greenheck.com](http://greenheck.com)

# Model Comparison

## Exhaust Supply/Reversible Belt and Direct Drive

### Direct Drive Fan Selection

Two propeller and drive frame combinations are available. These models are designed and constructed for applications with static pressure ranges up to 1 in. wg. Models RE2 and RS2 are available with welded and die formed steel blades, while models RCE3 and RCS3 offer a cast aluminum propeller. For low sound applications, it is best to select the largest fan with the lowest RPM to meet the performance requirements. This ensures the tip speeds will be as low as possible.

Construction Levels	Models - Performance Pages				Size Range Wheel Diameter	Performance	Propellers	
	Exhaust	Supply	Filtered	Reversible				
Level 2	Fully welded steel or die formed steel blades	RE2 pg 12	RS2 pg 14	—	—	18 to 54 in. (457 to 1372 mm)	Up to 44,000 cfm (74,756 m <sup>3</sup> /hr) and up to 1 in. wg (249 Pa)	Level 2 
Level 3	Cast aluminum airfoil blades	RCE3 pg 13	RCS3 pg 15	*RPDRF	*RPDR pg 16-17	20 to 54 in. (508 to 1372 mm)	Up to 46,000 cfm (78,155 m <sup>3</sup> /hr) and up to 1 in. wg (249 Pa)	Level 3 

\*Reversible performance is equivalent in the exhaust and supply mode.

### Belt Drive Fan Selection

Application requirements for sound and static pressure determine propeller type. Propellers are available in fabricated steel or cast aluminum.

Construction Levels	Models - Performance Pages				Size Range Wheel Diameter	Performance	Propellers	
	Exhaust	Supply	Filtered	Reversible				
Level 1	Galvanized steel blades riveted to the hub	RBE pg 19-25	RBS pg 28-34	RBF pg 37-43	—	20 to 54 in. (508 to 1372 mm)	Up to 30,000 cfm (50,970 m <sup>3</sup> /hr) and up to 5/8 in. wg (156 Pa)	Level 1 
Level 2	Dual thickness galvanized steel blades riveted to the hub	RBE pg 19-25	RBS pg 28-34	RBF pg 37-43	—	20 to 60 in. (508 to 1524 mm)	Up to 53,000 cfm (90,048 m <sup>3</sup> /hr) and up to 3/4 in. wg (19 Pa)	Level 2 
Level 3	Fabricated, fully welded and gusseted steel blades	RBE pg 19-25	RBS pg 28-34	RBF pg 37-43	—	24 to 72 in. (610 to 1829 mm)	Up to 87,000 cfm (149,513 m <sup>3</sup> /hr) and up to 1 in. wg (249 Pa)	Level 3 
Level 3	Cast aluminum airfoil blades	RBCE pg 26-27	RBCS pg 35-36	RBCF pg 44-45 *RPBRF pg 46-49	*RPBR pg 46-49	24 to 72 in. (610 to 1829 mm)	Up to 87,000 cfm (149,513 m <sup>3</sup> /hr) and up to 1 in. wg (249 Pa)	Level 3 - Cast 

### Belt Drive Blade Designs

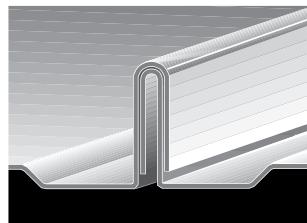


**L Propeller:** Swept, steeply pitched blade design. These propellers typically run at lower RPMs and generate low sound levels making them the best selection for sound critical applications or applications requiring the best combination of both air and sound performance. Typically used when the static pressure is 0.5 in. wg (13 mm) or less.



**H Propeller:** Straight, moderately pitched blade. It is designed for applications where static pressures are above 0.5 in. wg (13 mm). These propellers typically run at higher RPMs and generate slightly higher sound levels than the "L" propellers.

## Superior Hood Design



Greenheck's interlocking rib design combines four material thicknesses with I-beam design principles producing a hood far superior in strength to conventional designs (an important feature in high snow or wind load regions). Formed channels adjacent to the ribs provide water drainage to ensure weather tightness.

Hoods are available in galvanized steel, painted steel, or aluminum construction. Hood support angles are heavy-gauge galvanized steel. Hood panels and supporting frame members are shipped loose to the field.

## Construction Features

- **Fan hoods** and **bases** are constructed of galvanized, aluminum, steel, or painted steel as specified. Hood panels are arched and precision roll-formed for strength and weather tightness. Hoods are field bolted to heavy-gauge support angles. Bases include prepunched mounting holes.
- **Propellers** are constructed with fabricated steel or cast aluminum blades and hubs. All propellers are statically and dynamically balanced. Reversing fan propellers are designed to produce a high level of efficiency over a broad selection range. Tapered airfoil blades are cast of aluminum alloy. The reversible propeller is designed to move air in both the exhaust or supply modes.
- Permanently lubricated, sealed ball bearing pillow block **bearings** are 100% factory tested and are designed specifically for air handling applications with a minimum ( $L_{10}$ ) life in excess of 100,000 hours ( $L_{50}$  average life of 500,000 hours) at maximum catalogued operating speeds.
- **Fan shafts** are precisely ground and polished steel sized so the first critical speed is at least 25% over the maximum operating speed. Close tolerances where the shaft makes contact with the bearing result in longer bearing life.
- Heavy-duty ball bearing **motors** are carefully matched to the fan load.
- **Drives** shall be sized for a minimum of 150% of driven horsepower. **Pulleys** shall be fully machined cast iron, keyed and securely attached to propeller and motor shafts. **Motor sheaves** shall be adjustable for final system balancing. **Belts** are static-free and oil resistant.
- **Drive frames** (belt drive fans) or **motor support frames** (direct drive fans) and panel assemblies are constructed of heavy-gauge steel.
- **Fan panels** are constructed of heavy-gauge steel with a deep-formed inlet venturi. Reversible fans are constructed of heavy-gauge steel with a double venturi for efficient airflow.

# Standard Construction Features

## Access and Service

Periodic maintenance requires accessibility to fan components such as motors, belts, pulleys and propellers located under the hood. Greenheck's hooded roof propeller fan design incorporates many service-friendly features which reduce maintenance time and promote proper servicing.

These features include:

- **Hinged Hood** - Sizes 36 and smaller can be hinged by removing two of the four hood fasteners. The hood may then be laid over on the roof deck while servicing.
- **Removable Hood** - Sizes 36 and larger allow for complete removal of the hood by removing the four hood fasteners.
- **Removable Birdscreens** - Inspection of fan components is quick and easy by removing the quick-release birdscreen sections on either end of the unit while leaving the hood in place.



Birdscreens are constructed of 1/2 inch galvanized steel mesh. Filters are optional. Access for sizes 42 and larger is from underneath the hood by removing the birdscreen or filters.

## Filtered Supply

Filtered supply fans (models RBF, RBCF, RPDRF, and RPBRF) with 2-inch aluminum mesh, washable filters are available for applications where contaminants must be removed from supply air. Basic hood and fan construction is similar to the nonfiltered models.



Filter removal for cleaning or replacement can be easily done by opening the hood and sliding the filters out of the open end racks. In fan sizes 36 and larger, access panels on either end of the hood are provided to allow filter removal without raising the hood.

## Easy Field Assembly of Hoods

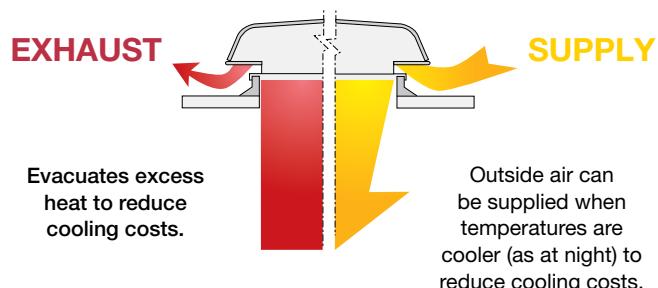


Fans ship in kitted sections—assembled fan module, hoods and supporting structural components – for easy assembly. Hood assembly requires no special tools or training. Each fan comes with complete illustrated assembly and installation instructions.

## Reversible Fans

Ventilation requirements are often subject to daily or seasonal changes in temperature. Greenheck's reversible fans (models RPDR, RPBR, RPDRF, and RPBRF) are designed for non-ducted systems or those with short duct runs and offer the ability to either exhaust or supply air on demand to maintain comfortable working conditions. By exhausting excess heat or supplying fresh outside air, the reversing fan saves cooling costs. Fewer fans required on the job mean lower initial costs and lower installation costs with fewer roof penetrations.

## One Fan — Two Functions



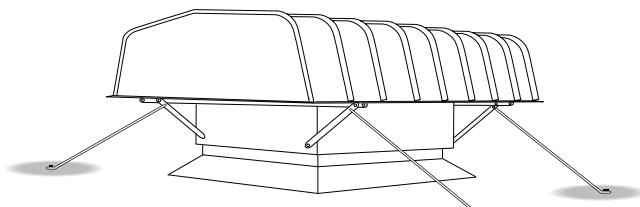
# Options and Accessories

## Tall Base –

Tall bases are recommended for installations that include a gravity damper or a motorized damper and greatly simplifies installation and servicing. The damper components are factory assembled as part of the tall base and shipped as a single unit reducing field assembly time and costs. Inspection, service and cleaning of the damper, actuator and linkages are made easy with an access door including two cam latches with plated steel handles and a slide-out rack. Tall bases provide the necessary minimum spacing between the propeller and the damper. The tall base increases the standard height to provide additional weather tightness from rain and snow intake due to the elevated hood. There is ample space within the tall base for ease of initial electrical wiring.

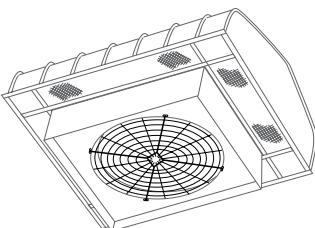


**Tie-Down Feature** – In locations where strong winds may occur, cable tie-downs are recommended to secure fans to the roof structure to prevent damage to the hood. Cables are by others.



Four galvanized steel brackets are provided as standard on all hooded propeller roof fans as cable attachment tie-down points at the ends of each hood support rail.

**Safety Guards** – Safety guards mounted to the fan inlet are recommended to protect the fan and nearby personnel in non-ducted applications. The installer should provide a safety guard if not ordered with the fan.



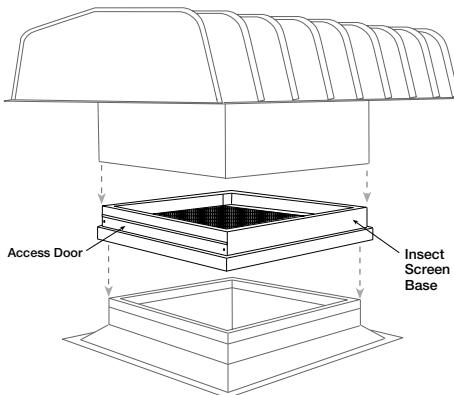
**Hood Insulation** – Fiberglass insulation attached to the underside of the hood to minimize condensation and reduce sound is available in either 1/2-inch or 1-inch thicknesses.

**Aluminum Housings** – Aluminum exterior construction is available for the hood sections and bases of all models. Aluminum housings can also be coated with decorative or protective finishes.

**Roof Curbs** – Prefabricated roof curbs are available to reduce installation time and costs by ensuring compatibility between the fan, the curb and the roof opening. All curbs are available in steel or aluminum construction and are lined with fiberglass insulation to prevent condensation and reduce sound levels. See Greenheck's roof curb catalog for complete details.

**Curb Cap Stripping** – Rubber curb cap stripping attached to the underside of the curb cap is available to provide a seal between the fan and the roof curb.

**Insect Screen Base** – Insect screen bases are available for applications where the building must be insect free, as in food processing operations. Construction is steel or aluminum with a fine mesh aluminum screen. The base includes an access door to allow easy removal of the screen section for cleaning and periodic inspection.



**Coatings** – A wide variety of coatings and colors are available. Greenheck coatings and resistance charts can be found in the Performance Coatings Commercial and Industrial Fans color chart and in our Coatings Application Guide.



Permatector™ is our standard coating. Typically used for applications that require corrosion resistance in indoor and outdoor environments. Color is RAL 7023 concrete grey.



Hi-Pro Polyester is resistant to salt water, chemical fumes and moisture in more corrosive atmospheres. It has superior chemical resistance, excellent abrasion and outdoor UV protection. This coating has protective qualities that exceed Air Dry Heresite. Color RAL 7023 concrete grey is standard; choose from standard decorative colors or color match any color.

# Options and Accessories

**Extended Lubrication Lines** – Extended lubrication lines allow for fan shaft bearing lubrication without disassembling the unit or removing the hood. Lubrication lines with grease fittings extend from the fan shaft bearings to the exterior of the fan base.

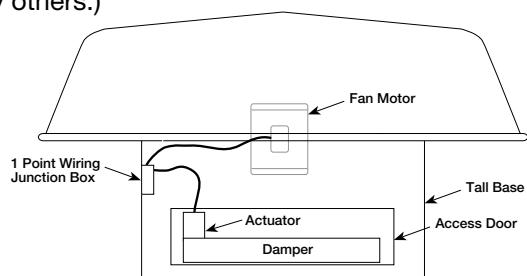
**Lifting Lugs** – Four heavy-gauge steel brackets are available to provide lifting points when raising the fan to the roof.

**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 for general purpose
  - NEMA-3R for rain resistance
  - NEMA-4 for watertight
  - NEMA-3R and NEMA-4 for heavy-duty
  - NEMA-7 and NEMA-9 for Class 1 and Class 2 hazardous locations and explosion resistant applications.
- 

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

**1-Point Wiring** – Available when the following items are selected: a tall base, common voltages on the motor and the actuator, and disconnect mounted and wired. 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 hard-wired transformer to the actuator. Greenheck will then pull the wires from the transformer to the disconnect box.

**Wiring Pigtail** – Available only in conjunction with factory-mounted disconnect switches. Liquid-Tite 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.

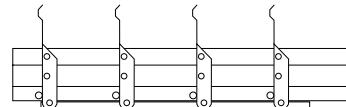
**End Switches** – Factory-mounted end switches allow the damper to open completely before the fan is energized. This reduces back pressure and brake horsepower load on the fan motor at start-up.

**Dampers** – Backdraft dampers (also called gravity dampers) allow airflow in one direction and prevent reverse airflow for use in the exhaust or intake HVAC systems. Backdraft dampers can either be operated by gravity (where pressure or velocity opens and closes the damper) or motorized to open and close when required. *When the damper is not factory-installed in a tall base, the damper is to be installed under the roof curb to provide adequate distance from the fan.*

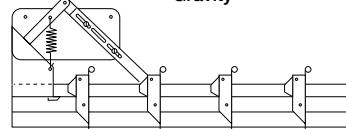
- **Backdraft Dampers  
Exhaust and Supply  
Gravity or Motorized**

Backdraft dampers are constructed with a galvanized steel frame and aluminum blades with vinyl blade seals. Gravity dampers open by pressure differential and close by an adjustable spring.

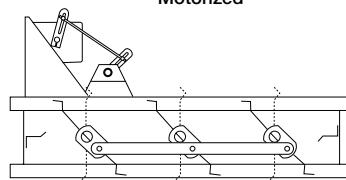
- **Heavy-duty  
Backdraft Dampers  
Exhaust and Supply  
Motorized**



Backdraft Damper Gravity



Backdraft Damper Motorized



Heavy Duty Backdraft Damper - Motorized

These dampers have heavy-galvanized steel frames and blades and are available in standard leakage, low leakage and insulated low leakage configurations. Heavy-duty backdraft dampers handle higher volumes of air than standard backdraft dampers. Ultra-low leakage dampers with extruded aluminum blades are available with galvanized steel or extruded aluminum frames. All low leakage dampers include vinyl blade and jamb seals.

**High Wind and Hurricane Ratings** – All certified rooftop prop models are tested to both Miami-Dade County and the state of Florida high wind standards for use in hurricane zones. Sizes up to a 48-inch prop on unfiltered models and up to a 42-inch prop on filtered models are available with the high wind ratings. For more information see Miami-Dade County NOA 23-1122.03 and Florida Product Approval FL41781.

**Seismic-Rated Fans** – All certified rooftop prop 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 2006 and 2009 standards. For more information, see California HCAI certification - OSP-0113-10.



 **VARI-GREEN**

## Controls

**Hand/Off/Auto (HOA)** – Provides the hand/off/auto functionality of a motor starter and allows for easy integration into other building systems. Set fan speed at this control (hand mode), stop the fan (off mode), or have another control toggle the fan on/off (auto mode). Two auto modes are available. The first allows a user to set the fan speed on the control and turn the fan on/off remotely. The second allows a user to turn the fan on remotely and pass a 0-10V signal from another control for a speed reference. 24V is also available for powering other controls.

**Remote Dial** – Allows for remote, manual airflow adjustments. Wall plate with dial may be mounted in a standard 2x4 inch electrical junction box.

**Two Speed Control** – Control allows motor RPM to set at two independent speeds (high or low). Meets minimum airflow requirements with the ability to bump up to high speed in an emergency to meet maximum airflow requirements, or reset down to low speed for energy conservation.



 **VARI-GREEN**

## Motors

Greenheck's electronically commutated (EC) Vari-Green® (VG) motor combines motor technology, controllability and energy efficiency into one single low maintenance unit. When combined with Greenheck fans, the VG motor offers variable volume capability and energy efficiency without using a variable frequency drive (VFD). The Vari-Green motor has built-in overload and temperature protection, so it does not require a stand-alone motor starter for protection.

**Dial-on Motor Control** – A potentiometer (dial-on motor control) is mounted on the motor for easy speed adjustment for system balance. Simply turn the dial; there are no belts and pulleys to adjust.

**Control Wire Inputs** – The motor accepts a 0-10 VDC signal from Building Automated Systems or other controls to adjust motor speed.

**Constant Pressure Control** – Control Vari-Green motor via static (variable volume) or velocity (constant CFM) pressure on the inlet or outlet side of the fan. Available with duct or room probes for use in:

- Multifamily structures – Apartments, condos, hotels, utility rooms, residential kitchens and bathrooms.
- Institutional facilities – Schools, prisons, multistory office buildings, bathrooms.

**Air Quality - VOC** – Control a Vari-Green motor via changes in volatile organic compounds (VOCs). VOCs are gasses that are emitted from humans, building materials, perfumes, foods, and furniture off-gassing. The range is 0-2000 CO<sub>2</sub> PPM equivalent.

- Institutional facilities – Schools, courthouses, hospitals, bathrooms, waiting rooms, cafeterias.
- Commercial buildings – Office spaces, conference rooms, bathrooms, break rooms.

**Air Quality - Temperature and Humidity** – Control a Vari-Green motor via changes in temperature, humidity, or both. The range is 32 to 120°F and 0 to 100% relative humidity.

- Multifamily structures – Apartments, condos, hotels, bathrooms, utility rooms.
- Commercial buildings – Office buildings, office spaces, conference rooms, utility rooms, bathrooms.

# Reversible Models Only

## Filter Performance

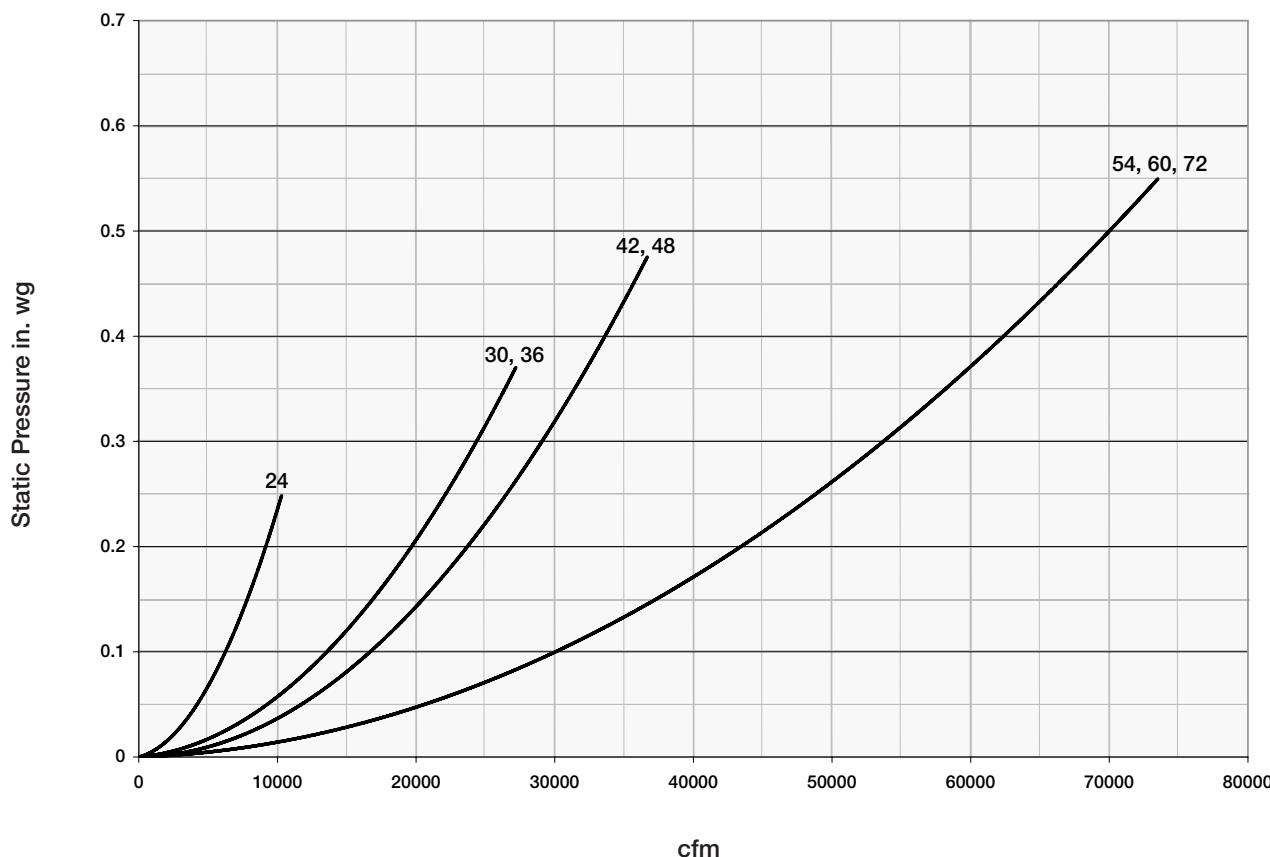


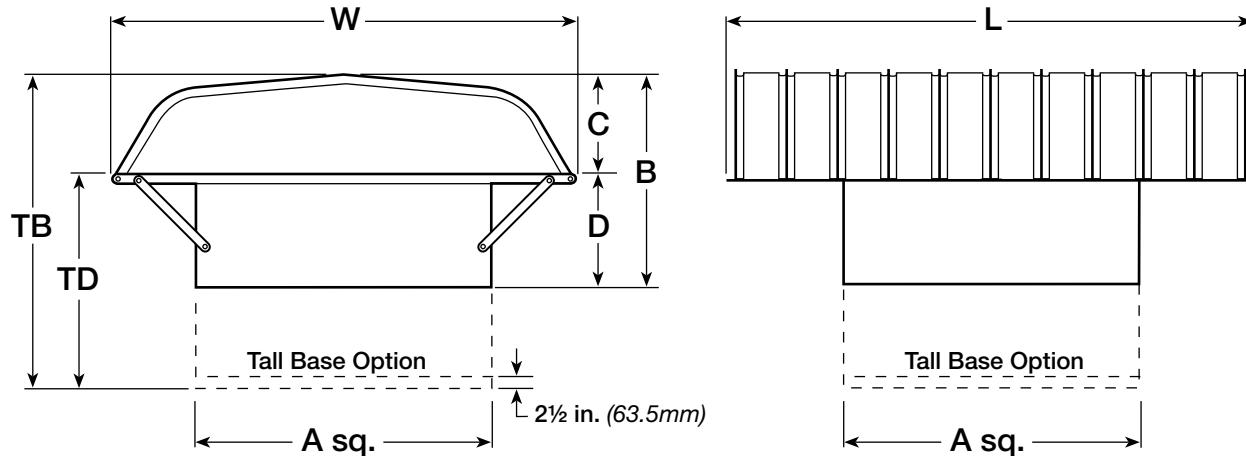
For reversible models, RPDRF and RPBRF, with 2-inch washable aluminum filters, use the filter performance graph below to determine the static pressure drop added by the filters. The filter loss is included in the performance data and no calculation will need to be determined for the RBF and RBCF models.

The airflow (CFM) and the desired fan size must be known to determine the pressure drop added by the filters.

**Example:** Size 42-inch RPDRF for 20,000 cfm at 0.125 in. wg.

- On the graph below, locate the 20,000 cfm line and read upward to its intersection with the 42-inch curve. Read left to the static pressure (in. wg), in this case 0.14 in. wg.
- Add 0.14 in. wg from the filter chart to the original 0.125 in. wg for a total of 0.265 in. wg.
- Using the RPDR-42 performance table on page 17, 20,000 cfm at 0.265 in. wg falls into the 5 hp range at 1025 frpm. In a supply mode you do not want to exceed 600 frpm to prevent intake of moisture.





## Exhaust / Supply RE2, RS2, RCE3, RCS3, RBE, RBS, RBF, RBCE, RBCS, RBCF

(Belt Drive Sizes 20-72 Direct Drive Sizes 18-54)

Fan Size	A*	C	Standard Base		Tall Base		Standard Hood	Filtered Hood	Damper Size*	Roof Opening*
			B	D	TB	TD				
18	28-1/4 (718)	13 (330)	23 (584)	10 (254)	40-1/4 (1022)	27-1/4 (692)	48 x 51 (1219 x 1295)	—	18 (457)	20-1/2 (521)
20	30-1/4 (768)	16 (406)	27 (686)	11 (279)	44-1/4 (1124)	28-1/4 (718)	54 x 51 (1372 x 1295)	54 x 51 (1372 x 1295)	20 (508)	22-1/2 (572)
24	34-1/4 (870)	18 (457)	29 (737)	11 (279)	46-1/4 (1175)	28-1/4 (718)	66 x 63 (1676 x 1600)	66 x 63 (1676 x 1600)	24 (610)	26-1/2 (673)
30	40-1/4 (1022)	20 (508)	34 (864)	14 (356)	51-1/4 (1302)	31-1/4 (794)	75 x 75 (1905 x 1905)	78 x 87 (1981 x 2210)	30 (762)	32-1/2 (826)
36	46-1/4 (1175)	22 (559)	39-1/2 (1003)	17-1/2 (445)	56-3/4 (1441)	34-3/4 (883)	88 x 87 (2235 x 2210)	94 x 87 (2388 x 2210)	36 (914)	38-1/2 (978)
42	52-1/4 (1327)	24 (610)	42-1/2 (1080)	18-1/2 (470)	59-3/4 (1518)	35-3/4 (908)	86 x 99 (2184 x 2515)	93 x 99 (2362 x 2515)	42 (1067)	44-1/2 (1130)
48	58-1/4 (1480)	24 (610)	43-1/2 (1105)	19-1/2 (495)	60-3/4 (1543)	36-3/4 (933)	93 x 111 (2362 x 2819)	112 x 111 (2845 x 2819)	48 (1219)	50-1/2 (1283)
54	64-1/4 (1632)	26-1/2 (673)	49 (1245)	22-1/2 (572)	66-1/4 (1683)	39-3/4 (1010)	112 x 111 (2845 x 2819)	124 x 123 (3150 x 3124)	54 (1372)	56-1/2 (1435)
60	70-1/4 (1784)	26-1/2 (673)	50 (1270)	23-1/2 (597)	67-1/4 (1708)	40-3/4 (1035)	124 x 123 (3150 x 3124)	136 x 135 (3454 x 3429)	60 (1524)	62-1/2 (1588)
72	82-1/2 (2096)	29 (737)	53 (1346)	24 (610)	70-1/4 (1784)	41-1/4 (1048)	136 x 135 (3454 x 3429)	136 x 147 (3454 x 3734)	72 (1829)	74-1/2 (1892)

## Reversible RPDR, RPBR, RPDRF and RPBRF

24	34-1/4 (870)	18 (457)	32 (813)	14 (356)	46-1/4 (1175)	28-1/4 (718)	66 x 63 (1676 x 1600)	66 x 63 (1676 x 1600)	24 (610)	26-1/2 (521)
30	40-1/4 (1022)	20 (508)	34 (864)	14 (356)	51-1/4 (1302)	31-1/4 (794)	74 x 75 (1880 x 1905)	78 x 87 (1981 x 2210)	30 (762)	32-1/2 (826)
36	46-1/4 (1175)	21 (533)	38-1/2 (978)	17-1/2 (445)	55-3/4 (1416)	34-3/4 (883)	76 x 87 (1930 x 2210)	94 x 87 (2388 x 2210)	36 (914)	38-1/2 (978)
42	52-1/4 (1327)	24-1/2 (622)	43 (1092)	18-1/2 (470)	60-1/4 (1530)	35-3/4 (908)	86 x 99 (2184 x 2515)	100 x 99 (2540 x 2515)	42 (1067)	44-1/2 (1130)
48	58-1/4 (1480)	24-1/2 (622)	44 (1118)	19-1/2 (495)	61-1/4 (1556)	36-3/4 (933)	100 x 111 (2540 x 2819)	112 x 111 (2845 x 2819)	48 (1219)	50-1/2 (1283)
54	64-1/4 (1632)	27 (686)	49-1/2 (1257)	22-1/2 (572)	66-3/4 (1695)	39-3/4 (1010)	112 x 111 (2845 x 2819)	124 x 123 (3150 x 3124)	54 (1372)	56-1/2 (1435)
60	70-1/4 (1784)	27 (686)	50-1/2 (1283)	23-1/2 (597)	67-3/4 (1721)	40-3/4 (1035)	124 x 123 (3150 x 3124)	136 x 135 (3454 x 3429)	60 (1524)	62-1/2 (1588)
72	80-1/4 (2038)	29 (737)	53 (1346)	24 (610)	70-1/4 (1784)	41-1/4 (1048)	136 x 135 (3454 x 3429)	136 x 147 (3454 x 3734)	72 (1829)	74-1/2 (1892)

All dimensions shown in inches (millimeters); \*square dimensions

# Material Data

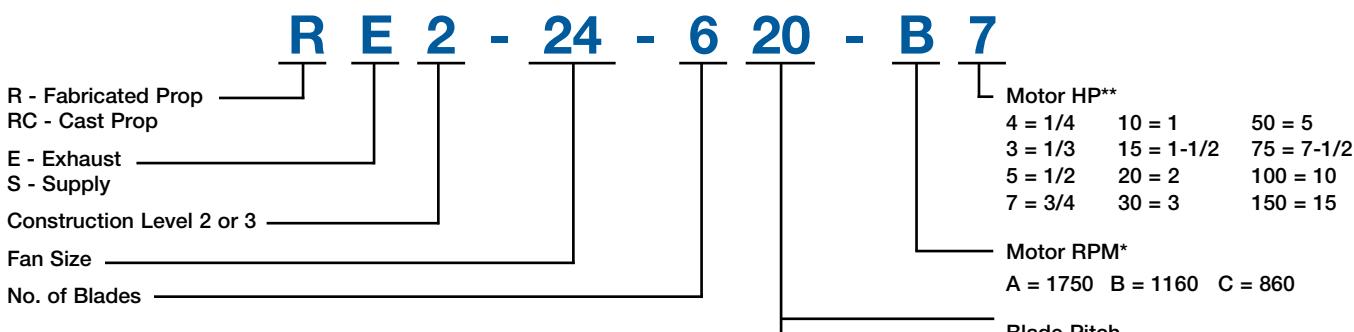


Building Value in Air.

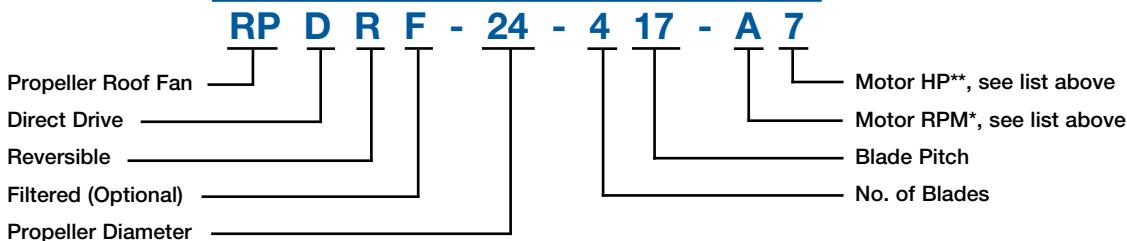
Fan Size	Minimum Material Gauges								Belt Drive Shaft Size	Max Motor Frame Size		Approximate Weight (lbs)	
	Base		Hood		Fan Panel	Drive Frame Channel				Belt	Direct	Galv.	Alum.
	Galv.	Alum.	Galv.	Alum.									
<b>Level 1, Models: RBE, RBS and RBF</b>													
20	20	0.080	22	0.40	18	11	3/4	145T	-	195	165		
24	20	0.080	22	0.40	18	11	3/4	145T	-	235	200		
30	20	0.080	22	0.051	18	11	3/4	184T	-	280	240		
36	20	0.080	22	0.051	16	11	3/4	184T	-	320	275		
<b>Level 2, Models: RBE, RBS, RBF, RE2 and RS2</b>													
18	20	0.080	22	0.040	18	14	-	-	56	185	160		
20	20	0.080	22	0.040	18	11	3/4	145T	145T	210	180		
24	20	0.080	22	0.040	18	11	3/4	145T	184T	245	210		
30	20	0.080	22	0.051	18	11	1	184T	184T	285	245		
36	20	0.080	22	0.051	16	11	1	184T	215T	330	280		
42	20	0.080	22	0.051	16	10	1 1/4	184T	256T	450	385		
48	20	0.080	22	0.051	16	10	1 1/4	184T	256T	645	550		
54	18	0.100	22	0.051	16	10	1 1/4	184T	256T	805	685		
60	18	0.100	22	0.051	14	10	1 1/2	215T	-	935	795		
<b>Level 3, Models: RBE, RBCE, RBS, RBCS, RBF, RBCF, RCE3 and RCS3</b>													
20	20	0.080	22	0.040	18	11	3/4	-	145T	220	190		
24	20	0.080	22	0.040	18	11	3/4	145T	184T	260	225		
30	20	0.080	22	0.051	18	11	1	184T	184T	295	250		
36	20	0.080	22	0.051	16	11	1	184T	215T	340	290		
42	20	0.080	22	0.051	16	10	1 1/2	215T	256T	465	395		
48	20	0.080	22	0.051	16	10	1 1/2	215T	256T	670	570		
54	18	0.100	22	0.051	16	10	1 1/2	256T	256T	825	705		
60	18	0.100	22	0.051	14	10	1 1/4	256T	-	970	825		
72	18	0.100	22	0.051	12	10	2	256T	-	1145	975		
<b>Reversible, Models: RPDR, RPBR, RPDRF and RPBRF</b>													
24	18	0.064	24	0.040	-	-	-	-	-	260	225		
30	18	0.064	24	0.040	-	-	-	-	-	295	250		
36	18	0.064	24	0.040	-	-	-	-	-	340	290		
42	18	0.080	22	0.051	-	-	-	-	-	465	395		
48	18	0.080	22	0.051	-	-	-	-	-	670	570		
54	16	0.100	22	0.051	-	-	-	-	-	825	705		
60	16	0.100	20	0.051	-	-	-	-	-	970	825		
72	16	0.100	20	0.051	-	-	-	-	-	1145	975		

## Direct Drive Model 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 or supply air configuration. The remainder of the model number is determined by the size and performance selected from the following pages.



## Reversible Model Number Code



# Direct Drive Exhaust

## RE2-18-54



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
<b>RE2 Performance Limits</b>																
RE2-18-423-B6	1/6		0.19	12.9	2742	2414	2323	2232	2041	1822	1597	1177				
RE2-18-432-B4	1/4	1160	0.29	15.0	3116	2825	2739	2632	2416	2203	1983	1549	656			
RE2-18-440-B3	1/3		0.39	16.9	3386	2996	2886	2774	2557	2378	2163	1720				
RE2-18-411-A4	1/4	1750	0.30	22	2901	2688	2628	2567	2450	2333	2216	2027	1707			
RE2-18-415-A3	1/3		0.38	23	3367	3144	3087	3030	2915	2797	2674	2473	2057	1625		
RE2-18-421-A5	1/2		0.58	24	3981	3765	3711	3659	3553	3444	3328	3146	2787	2390	1857	1373
RE2-20-414-B6	1/6	1160	0.20	15.7	3080	2725	2626	2525	2294	1999	1680	1303	781			
RE2-20-421-B4	1/4		0.29	17.9	3645	3244	3140	3034	2785	2500	2253					
RE2-20-427-B3	1/3	1750	0.39	18.9	3970	3574	3474	3359	3089	2809	2558	2126				
RE2-20-404-A4	1/4		0.30	28	3089	2848	2789	2730	2603	2474	2335	2129	1783	1392	1107	
RE2-20-408-A3	1/3	1750	0.40	29	3674	3451	3395	3339	3192	3064	2930	2709	2317	1883	1546	903
RE2-20-412-A5	1/2		0.58	30	4373	4155	4101	4037	3900	3766	3633	3425	3006	2531	1986	1477
RE2-20-418-A7	3/4	1750	0.91	32	5145	4913	4855	4795	4671	4547	4417	4218	3764	3287	2784	1922
RE2-20-424-A10	1		1.17	34	5780	5507	5439	5370	5232	5093	4946	4725	4324	3807	3463	
RE2-20-435-A15	1-1/2	1750	1.87	36	6483	6222	6157	6092	5936	5774	5606	5338	4911	4495	3955	2613
RE2-24-617-C4	1/4		0.28	16.7	4535	3976	3811	3631	3192	2684	2144					
RE2-24-621-C3	1/3	860	0.37	19.6	4958	4380	4209	4033	3657	3154	2589					
RE2-24-631-C5	1/2		0.57	20	5761	5091	4880	4675	4303	3832	3361	2238				
RE2-24-620-B7	3/4	1160	0.83	24	6551	6095	5977	5859	5605	5326	5062	4604	3805			
RE2-24-627-B10	1		1.15	26	7340	6909	6772	6634	6370	6116	5850	5412	4579			
RE2-24-601-A7	3/4	1750	0.80	37	4919	4716	4664	4608	4497	4386	4252	4039	3641	3300	3011	2403
RE2-24-606-A10	1		1.18	40	6559	6338	6283	6228	6107	5974	5841	5631	5227	4799	4350	3497
RE2-24-612-A15	1-1/2	1750	1.72	41	7990	7710	7640	7570	7432	7298	7164	6931	6463	6036	5515	4532
RE2-24-616-A20	2		2.22	42	8958	8723	8665	8606	8489	8355	8210	7991	7598	7157	6658	5501
RE2-30-618-C7	3/4	860	0.86	24	9151	8466	8278	8090	7698	7283	6828	6026	4525	3297		
RE2-30-625-C10	1		1.15	29	10117	9405	9223	9041	8591	8088	7590	6776	4600	3708	2714	
RE2-30-635-C15	1-1/2	1160	1.80	33	11552	10704	10497	10289	9821	9289	8615	7635	5280	4396		
RE2-30-605-B7	3/4		0.88	31	7628	7235	7135	7028	6815	6565	6304	5900	5162	4381	3619	2214
RE2-30-609-B10	1	1160	1.19	31	9129	8716	8612	8503	8286	8069	7803	7378	6637	5731	4753	3241
RE2-30-615-B15	1-1/2		1.80	33	11481	10986	10863	10739	10502	10266	10025	9609	8808	7956	6936	4815
RE2-30-620-B20	2	1160	2.31	34	12763	12327	12219	12110	11885	11552	11219	10706	9843	8931	7789	5540
RE2-36-608-C7	3/4		0.83	28	9860	9164	8969	8775	8357	7916	7431	6714	5296	3823	2471	
RE2-36-612-C10	1	860	1.18	30	12054	11324	11115	10906	10447	9960	9470	8710	7230	5332	3779	
RE2-36-618-C15	1-1/2		1.70	32	14330	13477	13241	13005	12532	12053	11543	10674	9238	7414	5518	2870
RE2-36-600-B10	1	1160	1.18	35	8001	7528	7397	7244	6942	6663	6380	5949	5216	4615	3929	2501
RE2-36-606-B15	1-1/2		1.79	37	12216	11724	11597	11450	11155	10860	10559	10106	9374	8466	7496	5502
RE2-36-609-B20	2	1160	2.23	39	13970	13475	13352	13228	12959	12677	12395	11915	11057	10069	9136	6883
RE2-36-615-B30	3		3.51	41	17695	17217	17098	16978	16739	16434	16097	15589	14632	13650	12637	10360
RE2-42-602-C10	1	860	1.10	31	8248	7498	7326	7146	6774	6440	6113	5624	4774	3819	2896	
RE2-42-608-C15	1-1/2		1.63	33	13322	12666	12501	12333	11997	11616	11210	10604	9558	8326	7157	4615
RE2-42-612-C20	2	860	2.30	34	16659	15900	15709	15508	15105	14703	14245	13550	12384	11184	9794	7321
RE2-42-618-C30	3		3.53	38	20833	19931	19704	19458	18964	18471	17975	17215	15982	14526	13096	10298
RE2-42-627-C50	5	860	5.75	42	24809	24003	23801	23600	23188	22562	21916	20827	19325	17993	16421	12586
RE2-48-405-C15	1-1/2		1.69	44	16467	15471	15228	14984	14497	13940	13377	12489	10775	8986	7113	3487
RE2-48-409-C20	2	860	2.35	46	20499	19443	19185	18930	18422	17854	17274	16341	14660	12904	10993	6665
RE2-48-413-C30	3		3.40	49	24743	23533	23242	22969	22421	21857	21148	20084	18501	16720	14919	10781
RE2-48-421-C50	5	860	5.89	54	30865	29709	29420	29131	28491	27794	27098	26120	24429	22624	20654	16320
RE2-54-409-C50	5		5.54	54	33516	32232	31911	31590	30975	30361	29747	28562	26470	24499	22503	17879
RE2-54-415-C75	7-1/2	860	8.67	55	41470	40161	39834	39507	38758	37868	36978	35722	33672	31561	29317	24635

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

\*Sones shown apply to the highest cataloged CFM at each fan RPM. For selections at other CFM and static pressure points, refer to the CAPS computerized selection program.

*Numbers in blue have a larger BHP and require the next largest size motor.*

# Direct Drive Cast Aluminum Exhaust

## RCE3-20-54



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	
<b>RCE3 Performance Limits</b>																	
RCE3-20-620-B4	1/4		0.30	15.3	3419	3134	3056	2976	2810	2606	2290	1789	1444	886			
RCE3-20-626-B3	1/3	1160	0.40	15.3	3911	3587	3495	3401	3210	3014	2782	2197	1679	1303	667		
RCE3-20-634-B5	1/2		0.58	16.8	4289	3954	3857	3732	3520	3319	3031	2393	2037	1369	722		
RCE3-20-306-A4	1/4		0.30	18.5	2845	2551	2483	2400	2231	2031	1830	1530	1178				
RCE3-20-313-A5	1/2		0.45	19.7	3818	3516	3436	3364	3223	3084	2912	2641	2011	1400	817		
RCE3-20-318-A5	1/2	1750	0.60	21	4225	3967	3895	3820	3657	3502	3346	3113	2584	1801	1233		
RCE3-20-618-A7	3/4		0.90	24	4867	4667	4618	4568	4477	4387	4296	4134	3803	3355	2828	2215	
RCE3-20-623-A10	1		1.21	29	5547	5343	5292	5239	5125	5011	4898	4730	4430	4085	3408	2690	
RCE3-24-427-C4	1/4	860	0.28	15.2	4978	4121	3897	3688	3147	2115	1561	792					
RCE3-24-626-C3	1/3		0.37	14.0	5278	4692	4531	4372	4020	3515	2616	1734	790				
RCE3-24-610-B4	1/4		0.30	17.6	4391	3975	3881	3786	3577	3354	3110	2686	1775	1175			
RCE3-24-416-B3	1/3		0.40	17.1	5301	4729	4566	4413	4113	3815	3510	2905	1474				
RCE3-24-424-B5	1/2	1160	0.59	19.2	6342	5818	5660	5488	5211	4905	4522	3911	2218	1273			
RCE3-24-625-B7	3/4		0.88	20	7040	6580	6485	6366	6124	5901	5655	5207	4302	2549	1860		
RCE3-24-633-B10	1		1.20	23	8028	7553	7419	7283	6982	6683	6385	5916	4996	3091	2248		
RCE3-24-403-A5	1/2		0.52	31	4858	4487	4398	4304	4112	3930	3739	3422	2855	2184	1835		
RCE3-24-606-A7	3/4		0.90	32	5784	5530	5460	5391	5252	5115	4983	4797	4448	4058	3524	2549	
RCE3-24-414-A10	1	1750	1.18	33	7388	7003	6904	6804	6615	6429	6227	5945	5479	5000	4483	2593	
RCE3-24-617-A15	1-1/2		1.78	34	8432	8107	8026	7957	7819	7681	7548	7347	7002	6602	6203	5361	
RCE3-24-621-A20	2		2.41	39	9652	9360	9287	9214	9061	8901	8740	8523	8192	7795	7372	6379	
RCE3-30-605-C4	1/4		0.29	18.2	5609	4739	4534	4352	3931	3462	2740	1740					
RCE3-30-607-C3	1/3		0.37	17.4	6417	5533	5332	5125	4706	4244	3639	2391					
RCE3-30-615-C5	1/2	860	0.56	16.4	7798	6911	6691	6470	6001	5499	5008	3847	1592				
RCE3-30-623-C7	3/4		0.87	18.3	9114	8217	7980	7737	7244	6742	6146	4948	2561				
RCE3-30-630-C10	1		1.15	20	9883	8802	8568	8333	7840	7302	6710	4215					
RCE3-30-603-B5	1/2		0.60	27	6885	6299	6148	5994	5682	5361	5063	4560	3464	2494	1417		
RCE3-30-607-B7	3/4		0.90	25	8656	7970	7800	7651	7357	7053	6746	6278	5408	3923	2591		
RCE3-30-612-B10	1	1160	1.20	24	9941	9328	9164	8991	8648	8326	8005	7499	6650	5591	3717		
RCE3-30-620-B15	1-1/2		1.76	26	11548	10940	10789	10639	10326	9989	9642	9068	8099	6950	4614		
RCE3-30-626-B20	2		2.41	28	12868	12202	12037	11871	11541	11136	10684	10061	9091	7917	5544	2654	
RCE3-36-601-C5	1/2		0.57	25	9219	8273	8003	7713	7017	6249	5362	4038					
RCE3-36-606-C7	3/4		0.83	25	11147	10114	9843	9555	8900	8157	7372	5893	3385				
RCE3-36-612-C10	1	860	1.14	24	13058	12051	11764	11377	10655	9980	9178	7772	4443				
RCE3-36-616-C15	1-1/2		1.44	25	14425	13194	12854	12487	11751	10951	10050	8606	5062				
RCE3-36-630-C20	2		2.35	29	16244	14958	14614	14167	13167	11879	10545	7823	5353	3370			
RCE3-36-300-B7	3/4		0.68	26	10426	9166	8849	8481	7719	7073	6168	4452					
RCE3-36-404-B10	1		1.18	32	12812	11893	11534	11319	10902	10302	9618	8617	6496	3715			
RCE3-36-605-B15	1-1/2	1160	1.81	34	14623	13994	13837	13660	13270	12874	12391	11653	10293	8503	6653		
RCE3-36-608-B20	2		2.34	35	16205	15288	15091	14893	14490	14076	13654	13010	11536	9754	7733	3312	
RCE3-36-616-B30	3		3.54	39	19458	18590	18361	18114	17618	17092	16548	15729	14193	12433	10488	5629	
RCE3-36-630-B50	5		5.76	44	21911	20994	20756	20501	19993	19413	18750	17563	15139	11778	9457	6158	
RCE3-42-607-C10	1		1.17	28	14459	13168	12815	12450	11716	11004	10251	8983	6713	4324			
RCE3-42-611-C15	1-1/2	860	1.68	28	17362	16063	15678	15292	14632	13930	13207	11843	9446	6622	3460		
RCE3-42-616-C20	2		2.32	29	19856	18528	18219	17923	17311	16501	15714	14590	12052	8855	5165		
RCE3-42-623-C30	3		3.31	32	22468	21128	20720	20295	19447	18603	17730	16393	14043	10986	7237		
RCE3-48-603-C15	1-1/2		1.71	36	19773	18118	17700	17283	16350	15401	14385	12810	9608	5852			
RCE3-48-607-C20	2		2.27	33	23171	21549	21180	20701	19726	18796	17800	16116	13033	9075			
RCE3-48-611-C30	3	860	3.33	33	27514	25664	25232	24791	23872	22864	21742	20236	17002	13351	8463		
RCE3-48-620-C50	5		5.32	36	31410	29616	29034	28451	27430	26468	25460	23843	20623	16468	10796		
RCE3-48-631-C75	7-1/2		7.80	42	34013	31658	31127	30585	29379	28063	26606	24292	18161	15030	11775		
RCE3-54-315-C50	5	860	5.60	50	38118	36174	35687	35122	33984	32974	31978	30404	27499	24217	20575	9493	
RCE3-54-323-C75	7-1/2		8.37	55	42298	40107	39559	39066	38113	37160	36163	34639	31463	28305	25033	16045	

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

\*Sones shown apply to the highest cataloged CFM at each fan RPM. For selections at other CFM and static pressure points, refer to the CAPS computerized selection program.

*Numbers in blue have a larger BHP and require the next largest size motor.*

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	
<b>RS2 Performance Limits</b>																	
RS2-18-424-B6	1/6		0.19	19.3	2891	2638	2569	2479	2248	1987							
RS2-18-433-B4	1/4	1160	0.28	22	3401	3131	3050	2949	2705	2389	1970						
RS2-18-440-B3	1/3		0.37	23	3779	3515	3345	3184	2870	2514	2139						
RS2-18-412-A4	1/4	1750	0.28	31	3065	2908	2869	2828	2744	2646	2534	2299	1867	1453	1120		
RS2-18-415-A3	1/3		0.38	32	3575	3414	3372	3322	3222	3121	3011	2825	2365	1705	1367		
RS2-18-422-A5	1/2		0.60	33	4191	4010	3965	3921	3838	3755	3672	3476	3060	2486	1933		
RS2-20-416-B6	1/6	1160	0.19	22	3242	2926	2843	2747	2499	2093	1686	1182					
RS2-20-422-B4	1/4		0.29	25	3916	3590	3503	3408	3154	2819	2324						
RS2-20-428-B3	1/3		0.38	26	4426	4065	3956	3845	3553	3217	2721						
RS2-20-405-A4	1/4	1750	0.30	37	3240	3013	2954	2895	2781	2669	2503	2247	1856	1402	1017		
RS2-20-407-A3	1/3		0.38	38	3610	3401	3339	3276	3151	3025	2898	2698	2182	1717	1309		
RS2-20-413-A5	1/2		0.60	40	4572	4384	4337	4289	4168	4047	3929	3759	3267	2666	2041		
RS2-20-419-A7	3/4		0.84	41	5501	5288	5235	5181	5068	4955	4838	4636	4204	3493	2521		
RS2-20-425-A10	1		1.13	43	6322	6081	6021	5961	5844	5727	5603	5360	4882	4223	2858		
RS2-20-436-A15	1-1/2		1.74	45	7281	7060	7005	6950	6797	6590	6384	6078	5478	4613	3190		
RS2-24-618-C4	1/4		0.30	19.7	5012	4529	4410	4225	3766	3006	2303	1395					
RS2-24-622-C3	1/3	860	0.38	23	5548	5060	4930	4747	4237	3498	2597	1486					
RS2-24-633-C5	1/2		0.56	24	6685	6088	5898	5631	4939	4282							
RS2-24-622-B7	3/4	1160	0.90	30	7484	7130	7042	6947	6755	6564	6188	5634	4132	2725			
RS2-24-628-B10	1		1.19	31	8420	8059	7969	7875	7635	7377	6936	6215	4722				
RS2-24-603-A7	3/4	1750	0.88	45	5590	5393	5344	5295	5183	5054	4925	4691	4252	3785	3268	2414	
RS2-24-606-A10	1		1.11	48	6756	6483	6414	6346	6209	6098	6001	5788	5413	4985	4300	3312	
RS2-24-612-A15	1-1/2		1.79	49	8444	8220	8164	8108	7995	7863	7726	7520	7168	6712	6066	4691	
RS2-24-617-A20	2		2.28	50	9766	9571	9522	9473	9375	9278	9180	8988	8573	8124	7622	5925	
RS2-30-619-C7	3/4	860	0.87	29	9970	9435	9295	9143	8840	8429	7901	6696	4374	2697			
RS2-30-625-C10	1		1.18	33	11577	10998	10827	10653	10305	9897	9394	8224	5457	3057			
RS2-30-635-C15	1-1/2		1.79	37	13519	12942	12793	12586	12173	11650	10817	9403	5733				
RS2-30-605-B7	3/4	1160	0.87	36	8004	7540	7435	7332	7126	6902	6673	6233	5354	4407	3352	1580	
RS2-30-609-B10	1		1.14	37	9179	8819	8729	8639	8428	8195	7961	7599	6750	5625	4593	2558	
RS2-30-616-B15	1-1/2		1.77	38	12118	11712	11610	11509	11290	11054	10818	10434	9776	8376	6930	4186	
RS2-30-621-B20	2		2.37	40	14207	13783	13676	13570	13357	13134	12912	12578	11654	10472	8760	5010	
RS2-36-608-C7	3/4	860	0.87	31	10368	9770	9600	9429	9075	8655	8115	7149	5418	3563	2147		
RS2-36-613-C10	1		1.20	35	12782	12206	12062	11918	11564	11197	10688	9697	7557	5309	3431		
RS2-36-619-C15	1-1/2		1.77	35	15784	15145	14985	14825	14447	14067	13552	12421	10134				
RS2-36-605-B15	1-1/2	1160	1.75	41	12229	11775	11661	11547	11259	10962	10667	10228	9282	8226	7132	4819	
RS2-36-609-B20	2		2.29	45	14617	14216	14116	14016	13791	13527	13264	12865	12081	10911	9590	6806	
RS2-36-615-B30	3		3.39	47	18477	18083	17984	17885	17688	17491	17273	16871	16101	15051	13502	10029	
RS2-42-604-C10	1	860	1.16	34	10410	9823	9634	9429	9028	8661	8297	7759	6722	5524	4352	1892	
RS2-42-609-C15	1-1/2		1.73	37	14918	14214	14034	13846	13472	13068	12633	11992	10917	9514	8123	4949	
RS2-42-613-C20	2	860	2.37	38	18043	17419	17263	17107	16759	16391	16008	15173	13993	12440	10921	7062	
RS2-42-619-C30	3		3.54	40	22564	21911	21747	21584	21224	20822	20419	19797	18338	16086	14475	10641	
RS2-42-628-C50	5		5.58	44	28326	27511	27307	27104	26702	26309	25916	25326	22814	20699	18517	13889	
RS2-48-406-C15	1-1/2	860	1.70	48	17653	16860	16662	16434	15581	15003	14426	13452	11664	9604	7461	3219	
RS2-48-409-C20	2		2.26	50	21078	20184	19961	19671	19079	18489	17903	16873	14822	12789	10588	6065	
RS2-48-413-C30	3		3.34	54	26137	25150	24903	24644	24095	23547	22998	21787	19847	17768	15750	9811	
RS2-48-421-C50	5		5.87	57	34260	33175	32904	32633	32087	31474	30860	29847	27391	25101	22890	16888	
RS2-54-410-C50	5	860	5.90	58	36501	35366	35082	34798	34221	33593	32965	32024	30461	28032	25102	19450	
RS2-54-415-C75	7-1/2		8.48	59	44221	43095	42813	42532	41969	41406	40758	39766	37897	35653	32852	27125	

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

\*Sones shown apply to the highest cataloged CFM at each fan RPM. For selections at other CFM and static pressure points, refer to the CAPS computerized selection program.

*Numbers in blue have a larger BHP and require the next largest size motor.*

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			
<b>RCS3 Performance Limits</b>																			
RCS3-20-427-B4	1/4		0.30	24	3971	3646	3566	3481	3288	2974	2472	1403	676						
RCS3-20-434-B3	1/3	1160	0.41	26	4350	4020	3934	3831	3626	3263	2765	1601	693						
RCS3-20-628-B5	1/2		0.42	24	4365	4121	4060	4000	3815	3574	3219	2749	1319						
RCS3-20-604-A4	1/4		0.27	29	2392	2195	2144	2093	1993	1894	1797	1637	1330	1026	747				
RCS3-20-608-A3	1/3		0.36	28	3170	2983	2938	2894	2805	2715	2599	2414	2091	1741	1383				
RCS3-20-614-A5	1/2	1750	0.59	31	4364	4209	4171	4132	4033	3940	3847	3707	3329	2880	2458	1545			
RCS3-20-620-A7	3/4		0.90	42	5439	5277	5236	5196	5114	5033	4951	4825	4596	4009	3502	2057			
RCS3-20-624-A10	1		1.15	38	5955	5791	5750	5709	5627	5544	5461	5326	5074	4601	3978	2213			
RCS3-24-621-C4	1/4		0.28	17.7	4696	4247	4113	3929	3203	2060	1559								
RCS3-24-630-C3	1/3	860	0.40	18.7	5643	5140	4969	4771	4034	2378									
RCS3-24-638-C5	1/2		0.54	19.3	6250	5580	5345	5037	3366	2359									
RCS3-24-607-B4	1/4		0.28	21	3907	3510	3399	3262	2901	2500	2189	1829	1181						
RCS3-24-613-B3	1/3		0.38	24	4731	4361	4261	4149	3874	3555	3060	2327	1564	802					
RCS3-24-617-B5	1/2	1160	0.53	24	5556	5220	5131	5043	4843	4576	4070	3234	2140	1271					
RCS3-24-627-B7	3/4		0.88	29	7131	6806	6725	6628	6433	6224	5913	5211	2839	1719					
RCS3-24-634-B10	1		1.13	33	8025	7616	7498	7380	7118	6768	6442	5498	3015	1710					
RCS3-24-310-A5	1/2		0.59	33	5900	5444	5342	5247	5058	4874	4680	4328	3332	2403	1773				
RCS3-24-315-A7	3/4		0.91	35	7042	6625	6517	6409	6235	6067	5876	5578	4882	3433	2456				
RCS3-24-320-A10	1		1.21	38	8010	7639	7548	7460	7284	7086	6857	6607	6072	4932	2841				
RCS3-24-617-A15	1-1/2		1.80	47	8381	8161	8106	8051	7940	7822	7705	7529	7179	6472	5686	3751			
RCS3-24-621-A20	2		2.40	49	9555	9337	9283	9229	9120	9012	8904	8742	8415	7980	7357	4341			
RCS3-30-607-C4	1/4		0.28	21	6197	5384	5151	4904	4337	3595	1925								
RCS3-30-610-C3	1/3		0.37	22	7035	6285	6079	5855	5304	4454	3669	2549							
RCS3-30-616-C5	1/2	860	0.56	25	8580	7874	7674	7443	6984	6353	5060	3583							
RCS3-30-624-C7	3/4		0.85	24	10292	9537	9318	9044	8544	7454	6623	4448							
RCS3-30-630-C10	1		1.09	28	11435	10613	10364	10123	9658	8667	7313	3894							
RCS3-30-605-B5	1/2		0.59	32	7566	6954	6803	6634	6287	5916	5476	4787	3569	2141					
RCS3-30-610-B7	3/4		0.91	35	9489	8918	8787	8656	8367	8062	7698	7044	5509	4005	2287				
RCS3-30-614-B10	1		1.20	37	10898	10327	10194	10060	9793	9459	9106	8534	6795	5169	3226				
RCS3-30-621-B15	1-1/2		1.79	41	12998	12446	12295	12144	11841	11555	11274	10698	8924	6952	4576				
RCS3-30-627-B20	2		2.39	43	14636	14117	13987	13858	13537	13186	12829	12200	10188	8239	4621				
RCS3-36-604-C5	1/2		0.60	29	9756	8708	8434	8118	7479	6809	5763	4230							
RCS3-36-609-C7	3/4		0.86	31	11505	10507	10227	9957	9340	8594	7575	5892							
RCS3-36-615-C10	1		1.20	34	13325	12446	12136	11800	11092	10330	9304	7266							
RCS3-36-622-C15	1-1/2		1.72	35	15294	14240	13980	13679	12913	11905	10567	8033							
RCS3-36-630-C20	2		2.31	41	16511	15442	15136	14829	14055	12262	10302								
RCS3-36-307-B7	3/4		0.88	37	11414	10101	9781	9469	8840	8090	7337	5985							
RCS3-36-602-B10	1		1.20	43	11775	10991	10770	10551	10156	9730	9272	8575	6908	5415	3853				
RCS3-36-607-B15	1-1/2		1.81	49	14733	13937	13731	13525	13118	12712	12290	11563	10139	8143					
RCS3-36-611-B20	2		2.41	51	16777	15980	15764	15548	15099	14634	14176	13475	11940	9961	7326				
RCS3-36-618-B30	3		3.54	57	19215	18606	18454	18302	17882	17426	16973	16300	14178	11984	8312				
RCS3-36-630-B50	5		5.64	65	22271	21506	21315	21120	20665	20210	19692	18773	15269						
RCS3-42-607-C10	1		1.10	38	14105	12834	12537	12249	11645	10913	9940	8487	6225	4105					
RCS3-42-613-C15	1-1/2	860	1.76	41	17783	16553	16250	15948	15277	14454	13633	12305	9534	6419					
RCS3-42-617-C20	2		2.28	45	19923	18809	18546	18284	17735	16972	16127	14605	11679	7984					
RCS3-42-625-C30	3		3.38	48	23424	22285	21986	21674	21052	20304	19488	17490	14592	10384					
RCS3-48-606-C15	1-1/2		1.77	45	20610	19000	18598	18010	17020	16221	15326	13627	10542						
RCS3-48-609-C20	2		2.24	46	22968	21539	21079	20539	19641	18759	17837	16250	12939	9130					
RCS3-48-614-C30	3		3.36	49	27791	25756	25318	24881	23969	23021	22007	20375	16674	11984	6696				
RCS3-48-623-C50	5		5.31	52	32415	30833	30320	29806	28783	27768	26607	24584	20762	15038					
RCS3-48-633-C75	7-1/2		7.74	53	36140	33689	33277	32865	32000	30758	29457	26963	17880						
RCS3-54-315-C50	5	860	5.50	57	40124	38440	38019	37586	36629	35672	34623	32996	30223	26780	21872				
RCS3-54-323-C75	7-1/2		8.40	60	46870	45132	44698	44263	43222	42045	40899	39431	36607	32994	28133				

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

\*Sones shown apply to the highest cataloged CFM at each fan RPM. For selections at other CFM and static pressure points, refer to the CAPS computerized selection program.

*Numbers in blue have a larger BHP and require the next largest size motor.*

# Direct Drive Reversible (Exhaust and Supply)

## RPDR-24—36



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		
<b>RPDR Performance Limits</b>																		
RPDR-24-625-C4	1/4	870	0.25	18.4	4562	3760												
RPDR-24-632-C3	1/3		0.35	13.1	5200	4035	3655	3216	2503									
RPDR-24-421-B3	1/3	1160	0.35	27	5069	4492	4324	4153	3575	2962								
RPDR-24-429-B5	1/2		0.56	28	6062	5389	5164	4921	4092	3372								
RPDR-24-623-B5			0.56	26	5765	5300	5173	5020	4555	4097								
RPDR-24-632-B7	3/4		0.83	24	6933	6334	6165	5996	5149	4513	3700	3227						
RPDR-24-417-A7	3/4	1750	0.87	48	6476	6150	6068	5978	5799	5619	5363	4978	4104					
RPDR-24-421-A10	1		1.16	53	7647	7298	7206	7101	6892	6680	6453	6051	4994					
RPDR-24-428-A15	1-1/2		1.79	55	8981	8566	8462	8347	8108	7859	7553	6998	5650					
RPDR-24-622-A15			1.80	52	8459	8169	8096	8024	7869	7709	7548	7177	6426					
RPDR-24-432-A20	2		2.08	57	9462	8965	8853	8742	8512	8236	7943	7270	5732					
RPDR-24-625-A20			2.10	55	9177	8864	8786	8708	8538	8354	8170	7752	6927					
RPDR-30-618-C5	1/2	870			7801	6997	6741	6426	5603	4578	3485	2076						
RPDR-30-625-C7	3/4		0.75	28	9293	8298	7998	7692	6562	5237	4267							
RPDR-30-410-B5	1/2	1160	0.55	30	7219	6498	6308	6096	5621	5004	4139	2889						
RPDR-30-416-B7	3/4		0.83	36	9029	8257	8052	7836	7352	6751	5772	4080						
RPDR-30-617-B10	1		1.18	53	10105	9540	9381	9217	8891	8450	7888	6985	4932					
RPDR-30-625-B15	1-1/2		1.79	44	12391	11716	11522	11305	10868	10409	9843	8328	6174	4161				
RPDR-30-630-B20			2.19	48	13345	12620	12411	12172	11691	11135	10352	8202	5895					
RPDR-30-405-A10	1	1750	1.08	57	8271	7738	7621	7503	7255	6969	6684	6308						
RPDR-30-410-A15	1-1/2		1.80	64	10890	10424	10308	10188	9940	9692	9429	9008	8175	6901	5197			
RPDR-30-414-A20	2		2.29	69	12763	12291	12173	12049	11782	11515	11249	10808						
RPDR-30-420-A30	3		3.40	81	15185	14639	14503	14367	14091	13813	13535	13043						
RPDR-30-623-A50	5		5.53	97	17853	17431	17326	17220	17009	16796	16537	16147	15447	14670	13473	10345		
RPDR-36-410-C5	1/2	870	0.56	26	9299	7900	7569	7144	5751									
RPDR-36-611-C7	3/4		0.78	30	10555	9479	9216	8945	8315									
RPDR-36-617-C10	1		1.18	36	12506	11442	11138	10824	10129	8613	6952	5276						
RPDR-36-625-C15	1-1/2		1.77	45	14569	13180	12821	12391	11104	8909	7581	5713						
RPDR-36-409-B10	1	1160	1.22	42	11904	10843	10577	10319	9810	9210	8464	6474						
RPDR-36-605-B10			1.17	47	10869	10079	9866	9654	9235	8811	8339	7260	5274					
RPDR-36-610-B15	1-1/2		1.72	51	13614	12775	12584	12393	12011	11614	11218	10457						
RPDR-36-614-B20	2		2.32	56	15450	14659	14459	14258	13858	13444	13005	12171	9283					
RPDR-36-620-B30	3		3.17	69	17821	17120	16945	16740	16202	15664	15088	13982	10505					

Performance shown is for Model RPDR without ducts or filters. \*Sones shown apply to the highest cataloged CFM at each fan RPM. For selections at other CFM and static pressure points, refer to the CAPS computerized selection program.

Numbers in blue have a larger BHP and require the next largest size motor.

# Direct Drive Reversible (Exhaust and Supply)

## RPDR-42—54

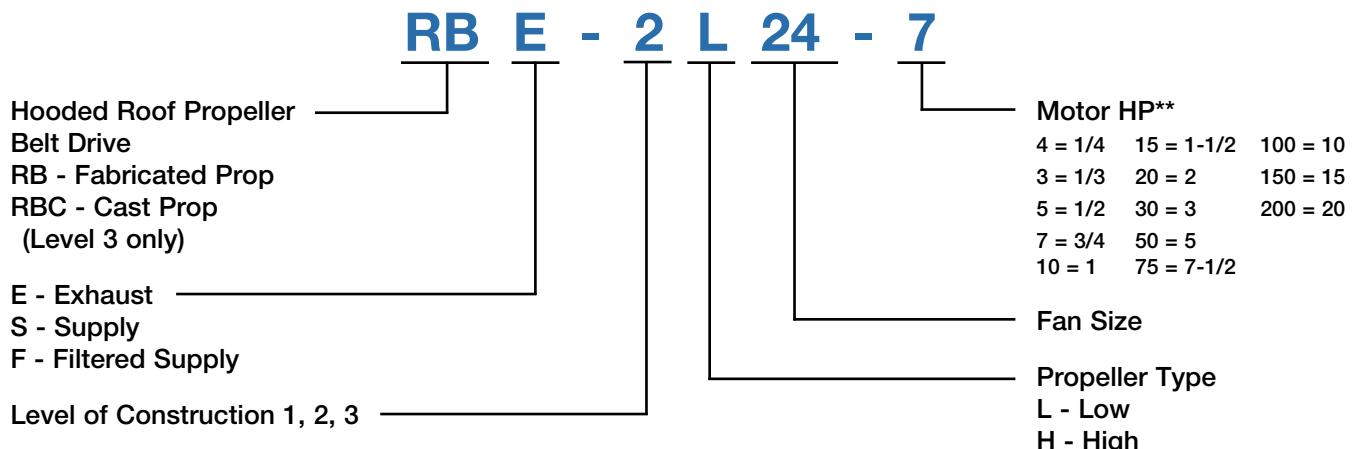


Model Number	Motor HP	Fan RPM	Max BHP	*Sones	CFM / Static Pressure in Inches WG												
					0.00	0.10	0.125	0.15	0.20	0.25	0.30	0.375	0.50	0.625	0.75		
<b>RPDR Performance Limits</b>																	
RPDR-42-609-C10	1	870	1.21	43	14217	12909	12562	12204	11435	10354	8889	6836					
RPDR-42-613-C15	1-1/2		1.76	43	17100	15685	15307	14927	14120	13055	11451	9248	5983				
RPDR-42-618-C20	2		2.06	48	19782	18231	17820	17409	16323	15126	13430	11066					
RPDR-42-625-C30	3		3.30	55	21556	19467	19083	18698	17665	15743	14280	12748	10019				
RPDR-42-402-B10	1	1160	1.15	67	9651	8301	7827	7494	6750	5485	4541						
RPDR-42-405-B15	1-1/2		1.44	60	13631	12360	12040	11687	10941	10140	8970	7206					
RPDR-42-608-B20	2		2.42	71	17765	16812	16569	16311	15796	15260	14718	13724	11285				
RPDR-42-613-B30	3		3.66	73	22800	21739	21473	21208	20663	20093	19514	18586	16122	13175	10783		
RPDR-42-620-B50	5		5.42	87	27581	26356	26050	25738	25112	24419	23467	22144	19658	16427			
RPDR-42-627-B75	7-1/2		7.90	106	29289	27799	27398	26996	26241	25583	24925	23206					
RPDR-48-404-C7	3/4	870	0.86	37	12326	10408	9882	9227	7081	5552							
RPDR-48-407-C10	1		1.16	44	15460	13608	13081	12554	11153	8810	7026						
RPDR-48-411-C15	1-1/2		1.6	44	19017	17100	16617	16087	14886	13357	10947						
RPDR-48-611-C20	2		2.35	48	20781	19392	19033	18675	17863	16899	15599	12798	9166				
RPDR-48-616-C30	3	1160	3.3	52	24740	23208	22835	22463	21716	20716	19576	17210	12510				
RPDR-48-625-C50	5		5.44	63	29935	28122	27670	27219	26306	25209	23983	21365	16034				
RPDR-48-630-C75	7-1/2		6.84	68	31440	29556	29089	28626	27687	26513	24967	20339	16291				
RPDR-48-402-B15	1-1/2		1.7	58	13075	11690	11330	10937	10015	8892	7495	5720					
RPDR-48-405-B20	2	1160	2.24	72	18115	16674	16335	15996	15231	14412	13419	10766	7692				
RPDR-48-409-B30	3		3.22	71	23111	21700	21357	21013	20315	19537	18755	17254	13165				
RPDR-48-612-B50	5		5.81	84	28807	27732	27464	27195	26661	26126	25591	24613	22560	19581			
RPDR-48-618-B75	7-1/2		8.49	99	34759	33596	33305	33014	32426	31829	31233	30299	28412	25974			
RPDR-48-624-B100	10	870	11.4	90	39237	37922	37594	37265	36602	35930	35258	34192	32145				
RPDR-54-408-C30	3		3.27	58	23998	21915	21371	20987	20300	19383	17956	16148	12532				
RPDR-54-415-C50	5		5.23	70	32838	31114	30648	30182	29249	28189	27059	25422	22179				
RPDR-54-422-C75	7-1/2		8.47	75	40692	38668	38211	37755	36841	35888	34745	32728	28582				
RPDR-54-617-C75			8.18	81	38959	37368	36977	36605	35860	35115	34153	32712	30409				
RPDR-54-622-C100	10		11.36	100	44846	43262	42867	42456	41606	40756	39817	38281	35163	32619	29704		

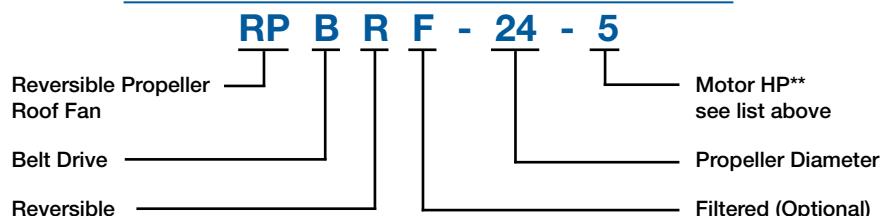
Performance shown is for Model RPDR without ducts or filters. \*Sones shown apply to the highest cataloged CFM at each fan RPM. For selections at other CFM and static pressure points, refer to the CAPS computerized selection program.

*Numbers in blue have a larger BHP and require the next largest size motor.*

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 filtered supply air configuration. The remainder of the model number is determined by the size and performance selected from the following pages.



## Reversible Model Number Code



## 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.

When using the performance tables, look first at the "L" selections, because they offer the lowest speed and sound levels. Many applications can be met with the "L" type 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
<b>Level 1 Performance</b>																
RBE-L30-4	1/4	382	0.15	9.9	5454											
		449	0.25	11.4	6411	4506	3791									
		476	0.30	12.1	6797	5144	4417	3784								
RBE-H30-4	1/4	493	0.15	11.4	6802	3487	3001	2317								
		579	0.25	14.1	8639	4576	4285	3917	2793	2366						
		617	0.30	16.0	8010	5022	4754	4455	3686	2783						

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

"L" type low pressure propeller  
"H" type high pressure propeller

Shows level of construction based on fan RPM and motor frame size. See performance pages.

Note that each max. BHP is cataloged at a 1.0 and 1.2 service factor. See Basics of Fan Selection.

Optimum selection range for the "L" type propeller.

Optimum selection range for the "H" type propeller.

# Belt Drive Exhaust

## RBE-20



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	
<b>Level 1 Performance</b>		<b>Max RPM</b>		<b>L - 1025 H - 1348</b>		<b>Max Motor Frame Size - 145T</b>						<b>TS = RPM x 5.235</b>					
RBE-1L20-4	1/4	653	0.16	11.2	2883	2284	2043										
		768	0.25	12.7	3390	2932	2796	2589									
		817	0.31	13.4	3607	3177	3059	2908	2523								
RBE-1H20-4	1/4	856	0.15	16.9	2550	2176	2077	1976	1744	1341							
		1007	0.25	18.1	2999	2687	2606	2521	2351	2168	1844	1442					
		1075	0.30	18.7	3202	2908	2836	2758	2599	2439	2253	1767					
RBE-1L20-3	1/3	845	0.34	13.8	3730	3314	3206	3085	2712								
		894	0.40	14.6	3947	3553	3456	3346	3037	2687							
RBE-1H20-3	1/3	1117	0.33	19.3	3327	3044	2975	2902	2749	2595	2434	1992					
		1175	0.40	20	3500	3230	3164	3098	2954	2808	2661	2400	1725				
RBE-1L20-5	1/2	963	0.50	15.7	4251	3885	3795	3704	3483	3154							
		1025	0.60	16.9	4525	4180	4095	4010	3825	3562	3255						
RBE-1H20-5	1/2	1284	0.50	22	3824	3577	3516	3456	3331	3198	3065	2863	2253				
		1348	0.60	24	4015	3778	3721	3664	3549	3422	3296	3104	2733	2094			
<b>Level 2 Performance</b>		<b>Max RPM</b>		<b>L - 1171 H - 1550</b>		<b>Max Motor Frame Size - 145T</b>						<b>TS = RPM x 5.235</b>					
RBE-2L20-5	1/2	963	0.50	15.7	4251	3885	3795	3704	3483	3154	2830	2244	1498				
		1025	0.60	16.9	4525	4180	4095	4010	3825	3562	3255	2794	1941				
RBE-2H20-5	1/2	1284	0.50	22	3824	3577	3516	3456	3331	3198	3065	2863	2253				
		1348	0.60	24	4015	3778	3721	3664	3549	3422	3296	3104	2733	2094			
RBE-2L20-7	3/4	1102	0.75	18.7	4865	4543	4464	4385	4228	4042	3767	3340	2482	1863			
		1171	0.90	21	5169	4866	4791	4717	4569	4409	4212	3807	3135	2341	1759		
RBE-2H20-7	3/4	1451	0.75	27	4322	4101	4048	3994	3888	3777	3660	3482	3181	2643	2170		
		1550	0.90	31	4617	4410	4359	4309	4209	4109	4002	3837	3560	3244	2638		

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

# Belt Drive Exhaust

## RBE-24



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			
<b>Level 1 Performance</b>					Max RPM	L - 809	H - 1152	Max Motor Frame Size - 145T								TS = RPM x 6.283			
RBE-1L24-4	1/4	493	0.15	11.1	3911	2832	2512										CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.		
		579	0.25	12.1	4594	3740	3480	3181											
		616	0.30	12.6	4887	4116	3864	3608	3095										
RBE-1H24-4	1/4	728	0.15	12.1	3417	2825	2661	2491											
		856	0.25	15.4	4018	3552	3403	3254	2976	2643									
		909	0.30	16.7	4266	3836	3705	3562	3296	3014	2611								
RBE-1L24-3	1/3	635	0.33	12.9	5038	4308	4057	3820	3302										
		678	0.40	13.6	5379	4736	4492	4265	3783	3342									
RBE-1H24-3	1/3	939	0.33	17.2	4407	3995	3873	3735	3472	3210	2908								
		1001	0.40	19.2	4698	4321	4207	4088	3830	3594	3336	2766							
RBE-1L24-5	1/2	730	0.50	14.6	5792	5214	5017	4791	4377	3907	3519								
		775	0.60	15.7	6149	5604	5461	5249	4844	4426	4015								
RBE-1H24-5	1/2	1080	0.50	22	5069	4732	4626	4520	4288	4057	3839	3469							
		1152	0.60	29	5407	5101	5003	4904	4698	4473	4264	3945							
RBE-1L24-7	3/4	809	0.68	16.6	6418	5895	5767	5588	5191	4813	4383								
<b>Level 2 Performance</b>					Max RPM	L - 888	H - 1311	Max Motor Frame Size - 145T								TS = RPM x 6.283			
RBE-2L24-5	1/2	730	0.50	14.6	5792	5214	5017	4791	4377	3907	3519	2606							
		775	0.60	15.7	6149	5604	5461	5249	4844	4426	4015	3266	2073						
RBE-2H24-5	1/2	1080	0.60	22	5069	4732	4626	4520	4288	4057	3839	3469	2633	1963					
		1152	0.60	29	5407	5101	5003	4904	4698	4473	4264	3945	3155	2556	1872				
RBE-2L24-7	3/4	835	0.75	17.2	6625	6117	5993	5845	5452	5091	4687	4144	2914						
		888	0.90	19.2	7045	6567	6450	6333	5991	5636	5293	4721	3650	2683					
RBE-2H24-7	3/4	1235	0.84	31	5796	5511	5432	5340	5155	4952	4742	4456	3925	3132	2603				
		1311	0.90	34	6153	5884	5817	5734	5560	5383	5184	4901	4430	3759	3144	1986			
<b>Level 3 Performance</b>					Max RPM	L - 1278	H - 1461	Max Motor Frame Size - 145T								TS = RPM x 6.283			
RBE-3L24-7	3/4	952	0.50	18.6	5460	5020	4907	4793	4577	4279	3934								
		1094	0.75	23	6274	5895	5797	5698	5501	5313	5075	4661							
		1161	0.90	24	6658	6303	6210	6117	5931	5750	5571	5202	4385						
RBE-3H24-7	3/4	1087	0.53	19.4	5222	4787	4670	4554	4326	4083	3830	3329	2272	1768					
		1249	0.78	23	6001	5631	5529	5427	5225	5027	4819	4501	3779	2734	2295				
		1327	0.90	25	6375	6031	5936	5840	5648	5461	5274	4975	4432	3493	2758				
RBE-3L24-10	1	1203	1.00	25	6899	6558	6468	6378	6199	6020	5850	5522	4830						
		1278	1.20	26	7329	7010	6926	6841	6672	6503	6338	6082	5502	4640					
RBE-3H24-10	1	1375	1.07	26	6606	6273	6185	6093	5907	5725	5545	5261	4756	3995	3034	2236			
		1461	1.20	29	7019	6706	6628	6541	6367	6193	6023	5766	5313	4800	3901	2764			

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

*Numbers in blue have a larger BHP and require the next largest size motor.*

# Belt Drive Exhaust

## RBE-30



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		
<b>Level 1 Performance</b>					Max RPM	L - 696	H - 895	Max Motor Frame Size - 184T										
RBE-1L30-4	1/4	382	0.15	9.9	5454												CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.	
		449	0.25	11.4	6411	4506	3791											
		476	0.30	12.1	6797	5144	4417	3784										
RBE-1H30-4	1/4	493	0.15	11.4	4802	3487	3001	2317										
		579	0.25	14.1	5639	4576	4285	3917	2793	2366								
		617	0.30	16.0	6010	5022	4754	4455	3686	2783								
RBE-1L30-3	1/3	491	0.33	12.5	7011	5487	4778	4133										
		523	0.40	13.5	7468	6053	5536	4877										
RBE-1H30-3	1/3	634	0.33	16.3	6175	5218	4958	4691	3968	2965	2589							
		682	0.40	19.2	6643	5762	5524	5281	4716	3947	3115							
RBE-1L30-5	1/2	563	0.50	14.8	8039	6744	6385	5830	4681									
		599	0.60	15.9	8553	7350	7016	6672	5512									
RBE-1H30-5	1/2	733	0.50	20	7139	6329	6109	5886	5429	4829	3992	3163						
		780	0.60	22	7597	6844	6638	6431	6008	5520	4917	3669						
RBE-1L30-7	3/4	646	0.75	17.8	9224	8125	7820	7509	6634	5613								
		686	0.90	19.4	9795	8773	8488	8199	7573	6556	5651							
RBE-1H30-7	3/4	836	0.75	24	8143	7445	7258	7065	6675	6279	5786	4851	3537					
		895	0.90	23	8717	8072	7899	7722	7361	6992	6611	5871	4176					
RBE-1L30-10	1	696	0.95	19.8	9938	8931	8653	8370	7789	6795	5882							
<b>Level 2 Performance</b>					Max RPM	L - 864	H - 1125	Max Motor Frame Size - 184T										
RBE-2L30-7	3/4	646	0.75	17.8	9224	8125	7820	7509	6634	5613	4748	3597						
		686	0.90	19.4	9795	8773	8488	8199	7573	6556	5651	4512						
RBE-2H30-7	3/4	836	0.83	24	8143	7445	7258	7065	6675	6279	5786	4851	3537	2808	1877			
		895	0.90	23	8717	8072	7899	7722	7361	6992	6611	5871	4176	3510	2772			
RBE-2L30-10	1	710	1.00	20	10138	9152	8884	8606	8038	7127	6203	5042	3158					
		754	1.20	22	10766	9841	9601	9340	8810	8166	7243	6015	4342					
RBE-2H30-10	1	915	1.09	22	8912	8283	8114	7942	7589	7230	6869	6187	4404	3736	3065			
		980	1.16	25	9545	8965	8807	8648	8322	7992	7655	7106	5902	4449	3840	2395		
RBE-2L30-15	1½	813	1.51	25	11608	10755	10534	10307	9822	9326	8642	7371	5672	4110				
		864	1.81	28	12337	11537	11329	11121	10675	10214	9746	8597	6789	5337	3697			
RBE-2H30-15	1-1/2	1063	1.69	29	10354	9827	9681	9535	9242	8938	8633	8166	7237	5881	4760	3632		
		1125	1.80	34	10958	10462	10329	10191	9915	9632	9345	8907	8114	7084	5500	4359		
<b>Level 3 Performance</b>					Max RPM	L - 996	H - 1239	Max Motor Frame Size - 184T										
RBE-3L30-15	1-1/2	817	1.00	23	9566	8908	8744	8548	8144	7739	7294	6182	4166	3210				
		938	1.50	28	10982	10410	10267	10123	9798	9446	9094	8537	7045	4976	4222			
		996	1.80	30	11661	11122	10987	10852	10573	10241	9910	9412	8026	6430	5042	3449		
RBE-3H30-15	1-1/2	923	1.01	24	9638	8982	8816	8650	8279	7892	7481	6880	5837	4622	3377			
		1060	1.52	29	11069	10500	10356	10211	9921	9600	9264	8739	7864	6963	5956	3785		
		1125	1.80	31	11748	11213	11077	10940	10668	10388	10072	9595	8755	7947	7063	5049		
RBE-3H30-20	2	1168	2.00	33	12197	11681	11551	11420	11157	10895	10599	10143	9339	8554	7733	5855		
		1239	2.41	36	12938	12452	12331	12207	11960	11712	11459	11029	10290	9534	8799	7147		

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

*Numbers in blue have a larger BHP and require the next largest size motor.*

# Belt Drive Exhaust

## RBE-36



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					
<b>Level 1 Performance</b>		<b>Max RPM</b>		<b>L - 551 H - 679</b>		<b>Max Motor Frame Size - 184T</b>						<b>TS = RPM x 9.424</b>									
RBE-1L36-3	1/3	326	0.25	11.1	8055	5191											CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.				
		358	0.33	11.0	8846	6334	5591														
		382	0.40	11.4	9439	7135	6430	5787													
RBE-1H36-3	1/3	403	0.25	8.3	7760	5632	4935	4069													
		442	0.33	9.6	8511	6597	6072	5422	3682												
		472	0.40	10.6	9089	7300	6832	6303	4991	3516											
RBE-1L36-5	1/2	411	0.50	12.5	10155	8027	7458	6773													
		437	0.60	13.5	10798	8807	8285	7706	6544												
RBE-1H36-5	1/2	508	0.50	11.6	9782	8078	7710	7260	6190	4514	3600										
		540	0.60	12.6	10399	8757	8429	8047	7133	6003	4474										
RBE-1L36-7	3/4	471	0.75	14.4	11638	9806	9321	8836	7690	6720											
		500	0.90	15.3	12354	10641	10185	9728	8735	7698											
RBE-1H36-7	3/4	582	0.75	14.8	11207	9636	9331	9026	8268	7339	6248	4413									
		617	0.90	15.9	11881	10364	10070	9783	9133	8357	7426	5354									
RBE-1L36-10	1	518	1.00	16.1	12799	11153	10713	10272	9368	8290	7431										
		551	1.21	17.7	13614	12080	11667	11254	10425	9480	8542										
RBE-1H36-10	1	640	1.00	17.1	12324	10842	10551	10274	9691	8975	8112	6600									
		679	1.20	19.2	13075	11644	11361	11096	10574	9946	9244	7949	5287								
<b>Level 2 Performance</b>		<b>Max RPM</b>		<b>L - 693 H - 856</b>		<b>Max Motor Frame Size - 184T</b>						<b>TS = RPM x 9.424</b>									
RBE-2L36-10	1	518	1.00	16.1	12799	11153	10713	10272	9368	8290	7431	5096									
		550	1.20	17.6	13590	12053	11638	11224	10394	9445	8509	6827	3401								
RBE-2H36-10	1	640	1.00	17.1	12324	10842	10551	10274	9691	8975	8112	6600									
		679	1.20	19.2	13075	11644	11361	11096	10574	9946	9244	7949	5287								
RBE-2L36-15	1-1/2	593	1.51	20	14652	13225	12860	12476	11707	10937	10005	8780	5624								
		630	1.81	22	15566	14216	13894	13534	12811	12086	11319	10009	7555	4590							
RBE-2H36-15	1-1/2	732	1.50	22	14096	12724	12461	12199	11714	11229	10604	9552	7203	5161							
		778	1.81	26	14982	13651	13404	13157	12686	12230	11728	10845	8976	6420							
RBE-2L36-20	2	652	2.00	24	16110	14801	14490	14155	13457	12757	12056	10788	8961	5723							
		693	2.40	27	17123	15884	15591	15298	14644	13986	13327	12256	10416	7791	5177						
RBE-2H36-20	2	806	2.01	28	15521	14213	13974	13736	13272	12832	12392	11548	9871	7307	5769						
		856	2.40	34	16484	15209	14985	14760	14311	13893	13479	12777	11342	9566	7133						
<b>Level 3 Performance</b>		<b>Max RPM</b>		<b>L - 922 H - 1357</b>		<b>Max Motor Frame Size - 184T</b>						<b>TS = RPM x 9.424</b>									
RBE-3L36-20	2	689	1.57	23	14330	13423	13184	12942	12445	11898	11193	9948	7624	5080	3792						
		757	2.00	26	15744	14919	14712	14492	14053	13588	13090	12113	10014	8009	5630						
		805	2.40	29	16743	15966	15772	15574	15160	14747	14288	13542	11835	9788	6994	4634					
RBE-3H36-20	2	857	1.51	27	13552	12869	12698	12532	12187	11600	11140	10354	8812	6740	4949						
		941	2.00	32	14880	14258	14102	13947	13644	13287	12752	12134	10784	9369	7449						
		1000	2.40	34	15813	15228	15081	14935	14647	14361	13942	13231	12213	10883	9382	5957					
RBE-3L36-30	3	866	3.00	33	18011	17290	17109	16929	16551	16167	15781	15128	13741	11945	10171	6265					
		922	3.61	37	19176	18498	18329	18159	17814	17453	17092	16516	15416	13927	12092	7865					
RBE-3H36-30	3	1077	3.00	38	17031	16487	16351	16215	15944	15679	15414	14763	13832	12634	11499	8313					
		1144	3.60	41	18090	17578	17450	17322	17066	16815	16565	16105	15080	14291	13018	10499					
RBE-3H36-50	5	1277	5.00	49	20194	19735	19620	19506	19276	19047	18821	18485	17719	16823	16146	14042					
		1357	6.01	55	21459	21027	20919	20811	20595	20380	20164	19848	19309	18381	17651	15848					

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

Numbers in blue have a larger BHP and require the next largest size motor.

# Belt Drive Exhaust

## RBE-42



Model Number	Motor HP	Fan RPM	Max BHP	*Sones	CFM / Static Pressure in Inches WG															
					0.00	0.10	0.125	0.20	0.25	0.375	0.50	0.625	0.75	1.00	1.25	1.50				
<b>Level 2 Performance</b>					Max RPM	H - 888	Max Motor Frame Size - 184T													
RBE-2H42-5	1/2	338	0.35	10.0	10491	7567	6870	3292												
		388	0.52	12.2	12043	9565	8865	6384	4240											
		413	0.60	13.3	12819	10452	9881	7890	5765											
RBE-2H42-7	3/4	445	0.82	14.8	13812	11567	11094	9415	7879	3494										
		473	0.90	16.1	14681	12532	12081	10509	9442	5072										
RBE-2H42-10	1	490	1.04	16.9	15209	13151	12672	11181	10228	6062										
		519	1.20	18.5	16109	14193	13669	12362	11369	7910	4331									
RBE-2H42-15	1-1/2	560	1.55	20	17381	15645	15142	13930	13000	10496	6627									
		594	1.81	23	18437	16832	16358	15130	14371	12281	8772	5623								
RBE-2H42-20	2	616	2.09	24	19119	17593	17136	15897	15214	13155	10263	6842								
		655	2.40	27	20330	18932	18502	17239	16597	14671	12586	9239	6401							
RBE-2H42-30	3	706	3.07	33	21913	20664	20265	19069	18371	16739	14982	12594	9400							
		749	3.60	39	23247	22085	21735	20608	19856	18439	16659	14991	12204	6980						
RBE-2H42-50	5	836	5.34	56	25948	24906	24646	23663	22990	21508	20163	18571	17206	12150	7724					
		888	5.98	71	27562	26581	26336	25461	24827	23301	22117	20659	19266	15631	10644	6871				
<b>Level 3 Performance</b>					Max RPM	L - 868	H - 898	Max Motor Frame Size - 215T												
TS = RPM x 10.995																				

# Belt Drive Exhaust

## RBE-48

Level 2 Performance		Max RPM H - 734				Max Motor Frame Size - 194T												TS = RPM x 12.566	
RBE-2H48-5	1/2	277	0.33	8.6	12379	8262	7088												
		318	0.50	10.8	14211	10766	9784	6372											
		338	0.60	11.8	15105	11907	11003	8166	5287										
RBE-2H48-7	3/4	364	0.75	13.4	16267	13349	12526	9827	8053										
		387	0.90	14.7	17295	14544	13822	11369	9720										
RBE-2H48-10	1	399	1.00	15.5	17831	15143	14487	12163	10486	5191									
		426	1.21	17.7	19038	16477	15925	13826	12263	7670									
RBE-2H48-15	1-1/2	457	1.52	18.9	20423	17987	17472	15648	14296	10799	5668								
		487	1.80	20	21764	19430	18946	17343	16095	12737	8301								
RBE-2H48-20	2	505	2.01	21	22568	20306	19822	18341	17150	13880	10318								
		536	2.41	23	23954	21883	21317	20000	18915	15972	13014	8492							
RBE-2H48-30	3	578	3.01	26	25831	23992	23387	22097	21241	18614	15691	13000	8525						
		614	3.62	30	27440	25779	25209	23867	23101	20742	18116	15504	12139						
RBE-2H48-50	5	683	4.98	39	30523	29088	28650	27204	26515	24645	22422	20022	17649	11162					
		726	6.05	47	32445	31095	30758	29321	28605	26984	24938	22812	20437	15888	9261				
		734	6.05	49	32802	31467	31134	29729	28991	27388	25394	23296	20980	16755	9957				
<b>Level 3 Performance</b>		Max RPM L - 690 H - 842				Max Motor Frame Size - 215T												TS = RPM x 12.566	
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 include the effects of appurtenances (birdscreen). The sound ratings shown are loudness values in fan sones at 5 feet (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown 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 the CAPS computerized selection program.

Numbers in blue have a larger BHP and require the next largest size motor.

# Belt Drive Exhaust

## RBE-54



Model Number	Motor HP	Fan RPM	Max BHP	*Sones	CFM / Static Pressure in Inches WG												
					0.00	0.10	0.125	0.20	0.25	0.375	0.50	0.625	0.75	1.00	1.25	1.50	
<b>Level 2 Performance</b>					<b>Max RPM H - 557</b>				<b>Max Motor Frame Size - 184T</b>				<b>TS = RPM x 14.135</b>				
RBE-2H54-10	1	280	0.78	11.9	18851	14568	13407	9247	6336								
		307	1.00	13.8	20669	16883	15757	12618	9576								
		326	1.20	15.1	21948	18426	17409	14410	12038	5978							
RBE-2H54-15	1-1/2	352	1.51	17.3	23698	20482	19598	16766	14942	8686							
		374	1.81	19.3	25180	22191	21359	18693	16989	11473							
RBE-2H54-20	2	387	2.11	21	26055	23188	22386	19814	18162	13122	8026						
		411	2.41	23	27671	24993	24258	21904	20279	16261	10535						
RBE-2H54-30	3	443	3.08	27	29825	27370	26704	24608	23058	19416	14657	10047					
		471	3.62	33	31710	29427	28800	26852	25473	21977	18316	13288	9516				
RBE-2H54-50	5	524	4.99	50	35278	33273	32710	31003	29816	26618	23574	20144	15596				
		557	5.99	68	37500	35637	35114	33525	32419	29494	26549	23666	19845	12361			
<b>Level 3 Performance</b>					<b>Max RPM L - 650 H - 795</b>				<b>Max Motor Frame Size - 256T</b>				<b>TS = RPM x 14.135</b>				
RBE-3L54-30	3	394	2.10	22	26909	23779	22959	20206	18192	13008	8641						
		452	3.36	26	30871	28180	27468	25219	23621	18470	14785	10925	6745				
		480	3.61	30	32783	30269	29598	27540	26055	21999	16979	14088	10300				
RBE-3H54-30	3	436	2.00	23	24948	22898	22432	20612	19611	16053	11664	7233					
		501	3.01	28	28667	26830	26425	24988	23931	21363	18312	14607	10306				
		532	3.60	31	30441	28684	28303	27089	26002	23863	20887	17846	14051				
RBE-3L54-50	5	535	5.41	33	36539	34316	33718	31913	30655	27261	23247	18856	16478	9554			
		568	6.02	34	38793	36699	36159	34458	33324	30206	26872	22013	19249	13411			
RBE-3H54-50	5	594	5.01	36	33989	32368	32023	30999	30233	28027	25927	23289	20608	13798			
		631	6.01	40	36106	34580	34224	33260	32617	30439	28709	26282	23906	18164	11501		
RBE-3L54-75	7-1/2	612	7.92	36	41798	39855	39369	37805	36752	33952	30956	27549	23119	18373	12437		
		650	9.27	39	44393	42564	42106	40659	39669	37113	34363	31450	27707	21765	16615	10999	
RBE-3H54-75	7-1/2	679	7.51	45	38852	37435	37080	36167	35570	33736	31909	30184	27776	23148	17215	11522	
		722	9.00	50	41313	39980	39646	38751	38190	36657	34719	33208	31310	27059	22191	16231	
RBE-3H54-100	10	748	10.01	54	42801	41514	41192	40306	39764	38402	36470	34938	33399	29186	24824	19356	
		795	12.00	61	45490	44279	43977	43103	42593	41317	39704	38024	36651	32982	29215	24770	

# Belt Drive Exhaust

## RBE-60

<b>Level 2 Performance</b>					<b>Max RPM H - 559</b>				<b>Max Motor Frame Size - 215T</b>				<b>TS = RPM x 15.691</b>					
RBE-2H60-15	1-1/2	296	1.03	14.9	23150	18962	17812	14223	11132					CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.				
		340	1.51	18.6	26591	22990	22044	19035	16979									
		360	1.80	21	28156	24770	23882	21078	19201	13270								
RBE-2H60-20	2	373	2.01	22	29172	25909	25061	22389	20551	15125								
		392	2.40	24	30658	27561	26767	24274	22493	17755								
RBE-2H60-30	3	427	3.00	27	33396	30557	29837	27598	26026	22035	16942							
		450	3.63	29	35195	32502	31826	29718	28287	24464	20142	14973						
RBE-2H60-50	5	502	5.03	33	39261	36843	36244	34402	33124	29778	26406	22367	17733					
		536	6.03	36	41921	39655	39093	37383	36208	33163	29935	26659	22581					
RBE-2H60-75	7-1/2	559	7.00	39	43719	41547	41005	39377	38264	35387	32285	29285	25738	14495				
		597	8.00	42	46393	44264	43831	41502	39779	37705	34691	32667	29603	26535	23473	20411	17349	
RBE-3L60-50	5	369	3.37	20	35914	32231	31102	27861	25816	18779	14586	9917						
		434	5.12	23	42240	39241	38413	35554	33678	29245	23078	19060	15268					
		462	6.03	28	44966	42187	41409	38794	37025	32914	27914	22136	19290	11822				
RBE-3H60-50	5	427	3.00	24	33396	30557	29837	27598	26026	22035	16942							
		502	5.03	30	39261	36843	36244	34402	33124	29778	26406	22367	17733					
		536	6.03	33	41921	39655	39093	37383	36208	33163	29935	26659	22581					
RBE-3L60-75	7-1/2	497	7.71	37	48372	45838	45115	42788	41118	37163	33215	27852	23262	17019				
		528	9.02	37	51389	49048	48367	46269	44691	40833	37313	33026	27644	21503	14952			
RBE-3H60-75	7-1/2	575	7.51	37	44971	42858	42330	40753	39673	36888	33914	30964	27758	19794				
		614	9.02	41	48021	46043	45548	44073	43075	40493	37809	34967	32254	25387				
RBE-3L60-100	10	547	10.42	38	53238	51003	50348	48376	46857	43106	39664	35968	30958	23888	17760			
		582	12.10	43	56645	54544	53978	52124	50801	47250	43881	40629	36745	27742	22857	16919		
RBE-3H60-100	10	632	10.00	43	49429	47507	47026	45594	44630	42134	39575	36813	34140	27883	19549			
		677	12.00	49	52948	51154	50706	49366	48472	46186	43809	41335	38757	33604	27050			

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

Numbers in blue have a larger BHP and require the next largest size motor.

# Belt Drive Exhaust

## RBE-72



Model Number	Motor HP	Fan RPM	Max BHP	*Sones	CFM / Static Pressure in Inches WG															
					0.00	0.10	0.125	0.20	0.25	0.375	0.50	0.625	0.75	1.00	1.25	1.50				
<b>Level 3 Performance</b>					Max RPM	L - 508	H - 530	Max Motor Frame Size - 256T												TS = RPM x 18.802
RBE-3L72-20	2	223	1.6	16.4	36120	28338	25951	18327	13349									CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.		
		245	2.01	18.6	39684	32769	30791	23682	19643	8142										
		261	2.41	20	42275	35821	34064	27764	22914	12416										
RBE-3H72-20	2	266	1.53	16.6	32832	27962	26612	21777	17274											
		292	2.02	19	36042	31687	30478	26666	23225											
		310	2.41	21	38263	34232	33080	29545	26840	16096										
RBE-3L72-30	3	280	3.11	23	45353	39381	37804	32337	28109	18519										
		297	3.61	25	48107	42515	41029	36254	32309	23453	12879									
RBE-3H72-30	3	334	3.02	23	41226	37577	36497	33283	31028	23252										
		355	3.63	25	43818	40468	39451	36447	34355	27879	17579									
RBE-3L72-50	5	332	5.48	29	53776	48853	47523	43463	40522	31480	24068	14381								
		353	6	31	57177	52563	51345	47594	44890	36937	29057	21236	13105							
RBE-3H72-50	5	396	5.03	30	48878	46017	45121	42399	40616	35891	29151	19316								
		420	6.01	32	51841	49143	48392	45814	44127	39746	34315	27129								
RBE-3L72-75	7-1/2	380	7.98	33	61550	57281	56182	52710	50365	43472	35429	29582	21117							
		403	9.01	35	65276	61264	60229	56993	54803	48851	41508	34102	28368	14011						
RBE-3H72-75	7-1/2	453	7.54	36	55914	53413	52787	50454	48867	44905	40749	34841	27475							
		481	9.02	40	59370	57014	56425	54338	52837	49153	45263	40639	34817							
RBE-3L72-100	10	418	11.01	37	67706	63847	62849	59755	57643	52013	45200	37717	32765	17620						
		445	12.1	41	72079	68466	67534	64673	62689	57568	51667	45017	38036	26379	14297					
RBE-3H72-100	10	498	10.02	43	61468	59193	58624	56676	55226	51655	47951	43965	38550	23339						
		530	12.1	49	65418	63280	62746	61040	59678	56300	52917	49364	45127	33918						
RBE-3L72-150	15	479	16.2	46	77586	74230	73385	70771	68941	64334	59295	53357	47095	36917	23487					
		508	18	52	82283	79119	78328	75876	74199	69854	65283	60221	54396	42796	32808	20643				
RBE-3H72-150	15	570	15	54	70355	68367	67870	66379	65174	62008	58907	55677	52373	43416	30699					
		606	18	59	74799	72929	72461	71059	70066	67088	64146	61218	58111	50925	41596	27100				

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

Numbers in blue have a larger BHP and require the next largest size motor.

# Belt Drive Cast Aluminum Exhaust

## RBCE-24—36



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	
<b>24 Performance</b>		<b>Max RPM H - 1605</b>		<b>Max Motor Frame Size - 145T</b>													<b>TS = RPM x 6.283</b>
RBCE-3H24-3	1/3	830	0.25	12.4	4483	3870	3719	3546	3133	2625	1585	1038					
		912	0.33	14.4	4926	4366	4230	4093	3757	3377	2905	1657	827				
		972	0.40	15.8	5250	4729	4593	4469	4186	3844	3472	2335	1305				
RBCE-3H24-5	1/2	1048	0.50	16.8	5661	5183	5053	4930	4692	4408	4083	3527	1876	1154			
		1113	0.60	17.7	6012	5560	5445	5323	5103	4857	4572	4104	2494	1661	980		
RBCE-3H24-7	3/4	1199	0.75	19.6	6476	6052	5955	5843	5626	5425	5185	4773	3970	2296	1664		
		1274	0.90	22	6882	6478	6386	6291	6078	5887	5684	5329	4650	3733	2228	1040	
RBCE-3H24-10	1	1320	1.00	23	7130	6738	6650	6561	6358	6166	5984	5658	5014	4233	2562	1415	
		1402	1.20	26	7573	7199	7116	7033	6852	6659	6487	6207	5642	5003	4159	2056	
RBCE-3H24-15	1-1/2	1511	1.50	31	8162	7809	7732	7654	7500	7321	7146	6908	6444	5880	5255	2863	
		1605	1.80	37	8669	8332	8259	8187	8041	7885	7716	7481	7075	6588	6049	4420	
<b>30 Performance</b>		<b>Max RPM H - 1476</b>		<b>Max Motor Frame Size - 184T</b>													<b>TS = RPM x 7.854</b>
RBCE-3H30-5	1/2	665	0.33	12	6533	5397	5067	4701	3942	2621	1861						
		764	0.50	14.1	7506	6535	6281	5993	5375	4754	3587	2441					
		812	0.60	15.4	7978	7067	6832	6580	6024	5431	4786	3173					
RBCE-3H30-7	3/4	875	0.75	17.4	8597	7756	7538	7320	6831	6294	5747	4777	2707				
		930	0.90	19.3	9137	8350	8144	7940	7506	7029	6505	5730	3550	2041			
RBCE-3H30-10	1	963	1.00	21	9461	8704	8505	8307	7904	7448	6955	6210	4039	2753			
		1023	1.20	22	10051	9342	9155	8968	8596	8188	7756	7044	5739	3716	2328		
RBCE-3H30-15	1-1/2	1102	1.50	24	10827	10175	10002	9828	9481	9136	8741	8117	7030	5146	3786		
		1171	1.80	25	11505	10897	10733	10570	10243	9918	9579	9016	7993	6890	4823	2464	
RBCE-3H30-20	2	1213	2.00	27	11917	11334	11176	11018	10702	10388	10075	9538	8568	7588	5887	3373	
		1289	2.40	30	12664	12116	11972	11824	11526	11230	10935	10466	9594	8658	7655	4625	
RBCE-3H30-30	3	1389	3.00	36	13647	13138	13011	12874	12598	12323	12048	11637	10869	10026	9164	6298	
		1476	3.61	41	14501	14023	13903	13781	13522	13262	13003	12616	11935	11188	10361	8625	
<b>36 Performance</b>		<b>Max RPM H - 1591</b>		<b>Max Motor Frame Size - 184T</b>													<b>TS = RPM x 9.424</b>
RBCE-3H36-7	3/4	693	0.50	17.1	9832	8385	7982	7550	6708	5725	4048						
		796	0.75	20	11293	10056	9727	9381	8642	7914	7112	5487					
		845	0.90	22	11988	10829	10526	10207	9532	8837	8142	6925					
RBCE-3H36-10	1	876	1.00	23	12428	11313	11021	10722	10086	9408	8747	7636					
		930	1.20	25	13194	12148	11876	11600	11017	10391	9761	8811	6671				
RBCE-3H36-15	1-1/2	1002	1.50	27	14216	13249	12999	12745	12223	11674	11079	10209	8601	5925			
		1065	1.80	30	15110	14204	13969	13733	13252	12743	12213	11378	9998	8226			
RBCE-3H36-20	2	1103	2.00	31	15649	14777	14550	14322	13860	13379	12880	12071	10749	9220	6745		
		1172	2.40	33	16628	15812	15598	15384	14953	14516	14049	13320	12069	10781	9173		
RBCE-3H36-30	3	1263	3.01	37	17919	17168	16969	16771	16374	15970	15562	14908	13743	12598	11344	7283	
		1342	3.61	40	19040	18338	18151	17964	17591	17215	16833	16238	15178	14083	12990	10251	
RBCE-3H36-50	5	1497	5.01	45	21239	20612	20452	20285	19950	19615	19280	18766	17868	16909	15923	13956	
		1591	6.01	50	22572	21982	21835	21681	21366	21050	20735	20257	19438	18573	17639	15808	

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

\*Sones shown apply to the highest catalogued CFM at each fan RPM. For selections at other CFM and static pressure points, refer to the CAPS computerized selection program.

# Belt Drive Cast Aluminum Exhaust

## RBCE-42—72



Model Number	Motor HP	Fan RPM	Max BHP	*Sones	CFM / Static Pressure in Inches WG												
					0.00	0.10	0.125	0.20	0.25	0.375	0.50	0.625	0.75	1.00	1.25	1.50	
<b>42 Performance</b>					Max RPM H - 1238	Max Motor Frame Size - 215T								TS = RPM x 10.995			
RBCE-3H42-10	1	620	0.75	17.3	13701	11858	11361	9776	8517	4001							
		681	1.00	19.7	15049	13395	12945	11579	10554	7347							
		724	1.20	22	15999	14447	14040	12760	11868	9118	5073						
RBCE-3H42-15	1-1/2	780	1.50	24	17237	15800	15434	14258	13461	11155	8145	4001					
		830	1.80	27	18342	16995	16651	15565	14821	12800	10286	6815					
RBCE-3H42-20	2	859	2.00	28	18982	17683	17351	16313	15596	13694	11413	8405	4645				
		911	2.40	30	20132	18910	18597	17638	16962	15256	13238	10809	7565				
RBCE-3H42-30	3	983	3.00	33	21723	20594	20305	19433	18817	17244	15540	13562	11224	4851			
		1043	3.60	36	23049	21985	21717	20895	20337	18860	17357	15631	13653	8237			
RBCE-3H42-50	5	1164	5.01	42	25722	24770	24531	23801	23310	22023	20696	19343	17796	14149	9092		
		1238	6.01	47	27358	26462	26238	25557	25095	23913	22668	21413	20072	16964	13130	7889	
<b>48 Performance</b>					Max RPM H - 1299	Max Motor Frame Size - 215T								TS = RPM x 12.566			
RBCE-3H48-20	2	716	1.50	26	20726	18695	18077	16305	15035	11320	6243						
		787	2	30	22781	20988	20454	18833	17730	14693	10874	6074					
		836	2.4	33	24199	22498	22068	20506	19528	16806	13526	9417	4866				
RBCE-3H48-30	3	901	3.01	36	26081	24484	24118	22707	21781	19345	16622	13352	9283				
		957	3.6	38	27702	26183	25838	24592	23680	21459	19070	16209	12924				
RBCE-3H48-50	5	1068	5.01	45	30915	29524	29215	28258	27429	25456	23390	21237	18700	12639			
		1135	6.01	50	32854	31527	31236	30362	29655	27749	25888	23886	21748	16626	10065		
RBCE-3H48-75	7-1/2	1222	7.5	58	35373	34128	33845	33034	32493	30694	29005	27200	25334	21056	15907	9598	
		1299	9.01	67	37602	36431	36143	35380	34871	33292	31648	30046	28305	24604	20260	14857	
<b>54 Performance</b>					Max RPM H - 968	Max Motor Frame Size - 256T								TS = RPM x 14.135			
RBCE-3H54-30	3	532	1.99	22	24860	22718	22185	20702	19470	15727	11392						
		611	3.01	26	28552	26683	26219	24873	24014	21307	17904	14094	10436				
		648	3.60	28	30281	28517	28080	26784	25974	23630	20733	17182	13651				
RBCE-3H54-50	5	724	5.02	32	33833	32252	31859	30685	29920	28107	25806	23143	19990	13677			
		769	6.02	36	35935	34447	34075	32970	32233	30511	28535	26204	23524	17507	11235		
RBCE-3H54-75	7-1/2	828	7.51	40	38692	37310	36965	35936	35252	33609	32021	29987	27747	22424	16893		
		880	9.02	45	41122	39822	39497	38526	37882	36299	34808	33110	31170	26552	21244	16164	
RBCE-3H54-100	10	911	10.00	48	42571	41315	41001	40062	39440	37888	36447	34939	33090	28913	23848	18844	
		968	12.00	56	45235	44052	43757	42870	42285	40822	39428	38072	36508	32833	28458	23599	
<b>60 Performance</b>					Max RPM H - 814	Max Motor Frame Size - 256T								TS = RPM x 15.691			
RBCE-3H60-50	5	517	3.08	25	32940	30485	29879	28146	26950	23106	18254	13380					
		608	5.01	32	38738	36639	36124	34579	33612	30975	27690	23760	19477				
		646	6.01	34	41159	39183	38695	37240	36296	34028	31105	27739	23811	15973			
RBCE-3H60-75	7-1/2	696	7.52	38	44345	42510	42052	40701	39801	37681	35274	32431	29182	21805	14227		
		740	9.03	42	47148	45423	44991	43716	42870	40836	38820	36297	33489	26823	19970		
RBCE-3H60-100	10	766	10.02	44	48805	47138	46721	45486	44668	42680	40772	38444	35848	29727	22992	16147	
		814	12	49	51863	50294	49902	48734	47965	46050	44255	42335	40041	34764	28467	22272	
<b>72 Performance</b>					Max RPM H - 714	Max Motor Frame Size - 256T								TS = RPM x 18.802			
RBCE-3H72-75	7-1/2	464	4.95	29	50660	46744	45715	42627	40365	33143	26752	10599					
		533	7.51	34	58193	54819	53945	51256	49464	44440	37857	32422	20045				
		567	9.04	38	61905	58734	57940	55413	53728	49262	43510	37958	32427				
RBCE-3H72-100	10	587	10.03	40	64089	61026	60260	57835	56208	51980	46771	40991	36055	13429			
		624	12.04	44	68128	65247	64526	62277	60746	56919	52645	46994	42022	27563			
RBCE-3H72-150	15	672	15	50	73369	70693	70024	67976	66554	63000	59236	54816	49539	40631	19366		
		714	18	56	77955	75436	74807	72914	71576	68231	64867	61125	56486	47522	37081		

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\*Sones shown apply to the highest catalogued CFM at each fan RPM. For selections at other CFM and static pressure points, refer to the CAPS computerized selection program.

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				
<b>Level 1 Performance</b>					Max RPM	L - 1052	H - 1366	Max Motor Frame Size - 145T												TS = RPM x 5.235
RBS-1L20-4	1/4	669	0.15	14.3	3389	2474	2123											CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.		
		786	0.25	16.3	3981	3294	3049	2770												
		835	0.30	17.2	4230	3586	3399	3151	2587											
RBS-1H20-4	1/4	870	0.16	17.8	2755	2352	2244	2103	1795											
		1023	0.25	19.5	3239	2907	2814	2723	2508	2270										
		1084	0.30	20	3432	3127	3035	2949	2769	2543	2319									
RBS-1L20-3	1/3	862	0.33	17.7	4366	3746	3581	3347	2822											
		919	0.40	18.8	4655	4078	3923	3753	3289	2764										
RBS-1H20-3	1/3	1122	0.33	21	3552	3263	3172	3088	2921	2710	2493									
		1193	0.40	22	3777	3515	3429	3345	3188	3015	2810	2470								
RBS-1L20-5	1/2	990	0.50	20	5015	4486	4341	4198	3826	3380										
		1052	0.60	22	5329	4838	4701	4566	4269	3868	3424									
RBS-1H20-5	1/2	1291	0.50	24	4088	3855	3779	3699	3549	3404	3236	2952								
		1366	0.60	26	4325	4106	4043	3968	3821	3684	3546	3283	2772							
<b>Level 2 Performance</b>					Max RPM	L - 1205	H - 1564	Max Motor Frame Size - 145T												TS = RPM x 5.235
RBS-2L20-5	1/2	990	0.50	20	5015	4486	4341	4198	3826	3380										
		1052	0.60	22	5329	4838	4701	4566	4269	3868	3424									
RBS-2H20-5	1/2	1291	0.50	24	4088	3855	3779	3699	3549	3404	3236	2952								
		1366	0.60	26	4325	4106	4043	3968	3821	3684	3546	3283	2772							
RBS-2L20-7	3/4	1134	0.75	24	5744	5297	5170	5043	4793	4474	4094	3460								
		1205	0.90	27	6104	5690	5571	5451	5214	4976	4632	4076								
RBS-2H20-7	3/4	1477	0.75	31	4676	4474	4423	4361	4221	4090	3963	3760	3347							
		1564	0.88	34	4952	4760	4712	4665	4534	4404	4284	4104	3732	3345						

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

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	
<b>Level 1 Performance</b>		<b>Max RPM</b>		<b>L - 809</b>		<b>H - 1157</b>		<b>Max Motor Frame Size - 145T</b>						<b>TS = RPM x 6.283</b>			
RBS-1L24-4	1/4	495	0.15	11.6	4501	3083	2469										
		582	0.25	12.9	5292	4271	3873	3387									
		619	0.30	13.6	5628	4677	4371	3968	3008								
RBS-1H24-4	1/4	726	0.15	11.8	3626	3093	2862	2563	1776								
		853	0.25	15.8	4261	3825	3703	3571	3077	2524	1955						
		914	0.30	19.1	4565	4156	4059	3936	3583	3122	2460						
RBS-1L24-3	1/3	638	0.33	13.9	5801	4881	4615	4249	3313								
		680	0.40	14.7	6183	5326	5098	4813	4049	3167							
RBS-1H24-3	1/3	943	0.33	19.8	4710	4312	4218	4107	3825	3355	2852						
		1006	0.40	22	5025	4649	4561	4473	4250	3872	3458	2503					
RBS-1L24-5	1/2	733	0.50	16.3	6665	5878	5667	5455	4852	4050	3273						
		779	0.60	17.9	7083	6364	6151	5952	5477	4819	4019						
RBS-1H24-5	1/2	1083	0.50	24	5410	5057	4975	4893	4708	4500	4079	3474					
		1157	0.60	25	5779	5445	5369	5292	5140	4945	4702	4125	2862				
RBS-1L24-7	3/4	809	0.67	18.9	7356	6677	6463	6271	5862	5269							
<b>Level 2 Performance</b>		<b>Max RPM</b>		<b>L - 891</b>		<b>H - 1322</b>		<b>Max Motor Frame Size - 145T</b>						<b>TS = RPM x 6.283</b>			
RBS-2L24-5	1/2	733	0.50	16.3	6665	5878	5667	5455	4852	4050	3273	1835					
		779	0.60	17.9	7083	6364	6151	5952	5477	4819	4019	2672					
RBS-2H24-5	1/2	1083	0.58	24	5410	5057	4975	4893	4708	4500	4079	3474	2411	1870			
		1157	0.60	25	5779	5445	5369	5292	5140	4945	4702	4125	2862	2355	1849		
RBS-2L24-7	3/4	839	0.75	20	7629	6988	6778	6588	6219	5707	5061	3980	1991				
		891	0.90	23	8102	7522	7325	7129	6782	6382	5843	4841	2866				
RBS-2H24-7	3/4	1230	0.75	29	6144	5828	5754	5683	5539	5377	5193	4725	3808	2814	2338		
		1322	0.90	37	6603	6309	6237	6170	6036	5902	5740	5484	4652	3599	2926	2025	
<b>Level 3 Performance</b>		<b>Max RPM</b>		<b>L - 1278</b>		<b>H - 1420</b>		<b>Max Motor Frame Size - 145T</b>						<b>TS = RPM x 6.283</b>			
RBS-3L24-7	3/4	951	0.50	22	6030	5614	5481	5348	5049	4591	3955						
		1093	0.75	27	6930	6577	6485	6369	6138	5899	5542	4739					
		1161	0.90	28	7361	7029	6946	6849	6631	6413	6152	5565	4383				
RBS-3H24-7	3/4	1063	0.49	22	5575	5215	5120	5024	4827	4572	4212	3446	2285				
		1221	0.77	25	6403	6090	6012	5931	5764	5597	5384	4992	3921	2925	1911		
		1299	0.90	28	6813	6518	6444	6371	6215	6058	5893	5580	4685	3787	2768		
RBS-3L24-10	1	1205	1.00	30	7640	7320	7240	7157	6947	6738	6527	6036	4861				
		1278	1.20	31	8103	7801	7726	7650	7467	7269	7071	6706	5641	4663			
RBS-3H24-10	1	1346	1.00	29	7059	6775	6704	6632	6484	6333	6182	5893	5205	4213	3302		
		1420	1.20	31	7447	7178	7110	7043	6906	6762	6619	6379	5852	4866	4121	2320	

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\*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 the CAPS computerized selection program.

Numbers in blue have a larger BHP and require the next largest size motor.

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				
<b>Level 1 Performance</b>					Max RPM	L - 696	H - 906	Max Motor Frame Size - 184T												TS = RPM x 7.854
RBS-1L30-4	1/4	382	0.15	10.9	5857	3056	1565											CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.		
		449	0.25	12.6	6885	5115	4215	2987												
		477	0.30	13.4	7314	5769	5045	4099												
RBS-1H30-4	1/4	505	0.17	13.1	5167	3875	3391	2484	1629											
		593	0.29	16.3	6068	5183	4863	4337	3094	2274	1591									
		624	0.30	17.8	6385	5558	5316	4850	3985	2773	2081									
RBS-1L30-3	1/3	493	0.33	13.9	7559	6135	5486	4654	2381											
		525	0.40	15.0	8050	6795	6258	5595	3716											
RBS-1H30-3	1/3	646	0.35	19.0	6610	5815	5587	5260	4419	3116	2431									
		686	0.40	22	7019	6273	6074	5854	5027	4212	3076	2145								
RBS-1L30-5	1/2	466	0.28	13.1	7145	5515	4736	3670												
		601	0.60	17.7	9215	8259	7879	7450	6315	4714	2796									
RBS-1H30-5	1/2	740	0.51	24	7572	6884	6706	6515	5964	5213	4309	3008								
		788	0.60	26	8063	7420	7253	7085	6708	5932	5363	3767	2412							
RBS-1L30-7	3/4	647	0.75	19.7	9921	9101	8772	8403	7518	6343	4714									
		689	0.90	22	10565	9858	9548	9239	8489	7533	6318	3852								
		696	0.90	22	10672	9983	9677	9370	8648	7725	6543	4146								
RBS-1H30-7	3/4	846	0.87	27	8657	8061	7905	7750	7420	7012	6243	5281	3336	2136						
		906	0.90	29	9271	8718	8573	8427	8136	7808	7299	6380	4289	3086						
<b>Level 2 Performance</b>					Max RPM	L - 869	H - 1136	Max Motor Frame Size - 184T												TS = RPM x 7.854
RBS-2L30-7	3/4	647	0.75	19.7	9921	9101	8772	8403	7518	6343										
		689	0.90	22	10565	9858	9548	9239	8489	7533	6318									
RBS-2H30-7	3/4	846	0.75	27	8657	8061	7905	7750	7420	7012	6243	5281								
		906	0.90	29	9271	8718	8573	8427	8136	7808	7299	6380	4289							
RBS-2L30-10	1	712	1.00	23	10917	10268	9969	9669	8990	8137	7050									
		758	1.20	25	11623	11013	10800	10519	9922	9209	8341									
RBS-2H30-10	1	940	1.00	30	9619	9087	8948	8808	8527	8224	7903	6893	4983							
		991	1.20	31	10140	9637	9508	9375	9109	8840	8536	7751	6391	4453						
RBS-2L30-15	1-1/2	815	1.50	28	12497	11929	11788	11555	11032	10438	9734	8425								
		869	1.81	31	13325	12793	12660	12522	12031	11523	10949	9894								
RBS-2H30-15	1-1/2	1064	1.50	34	10887	10418	10301	10179	9931	9683	9424	8999	7637	6066	4535					
		1136	1.80	38	11624	11185	11075	10965	10733	10501	10269	9887	8793	7720	5659					
<b>Level 3 Performance</b>					Max RPM	L - 995	H - 1243	Max Motor Frame Size - 184T												TS = RPM x 7.854
RBS-3L30-15	1-1/2	813	0.99	24	10284	9748	9614	9458	9002	8286	7513	6204	3921							
		934	1.50	30	11815	11349	11232	11115	10851	10496	9892	8937	7045	4752	3864					
		995	1.80	33	12587	12149	12039	11930	11711	11406	11012	10134	8432	6625	4791					
RBS-3H30-15	1-1/2	925	0.99	31	9858	9399	9284	9132	8829	8480	8083	7156	5525	4085						
		1063	1.50	39	11329	10930	10830	10730	10484	10220	9954	9435	8157	6701	5497					
		1129	1.80	43	12033	11656	11562	11468	11263	11014	10765	10334	9359	7874	6697	4273				
RBS-3H30-20	2	1170	2.00	46	12470	12106	12016	11925	11743	11503	11263	10883	10054	8734	7441	5166				
		1243	2.40	52	13248	12906	12820	12735	12564	12366	12140	11801	11109	10133	8746	6635				

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

Numbers in blue have a larger BHP and require the next largest size motor.

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		
<b>Level 1 Performance</b>		<b>Max RPM</b>		<b>L - 551 H - 621</b>		<b>Max Motor Frame Size - 184T</b>												
RBS-1L36-3	1/3	324	0.25	11.9	8911	5112												
		356	0.33	12.4	9792	6728	5349											
		380	0.40	12.9	10452	7802	6634	5250										
RBS-1H36-3	1/3	368	0.25	9.7	8146	5071	3751	2929										
		404	0.33	10.5	8942	6145	5438	4138										
		431	0.40	11.1	9540	6902	6270	5591	3593									
RBS-1L36-5	1/2	410	0.50	13.6	11277	9182	8064	6946										
		435	0.60	14.4	11964	10237	9193	8194	5827									
RBS-1H36-5	1/2	464	0.50	12.1	10270	7877	7219	6621	4696	3393								
		493	0.60	13.5	10912	8747	8023	7475	6307	4396								
RBS-1L36-7	3/4	469	0.75	15.8	12899	11566	10734	9720	7793									
		497	0.90	17.0	13670	12501	11877	11012	9214	7172								
RBS-1H36-7	3/4	531	0.75	14.8	11753	10433	9176	8540	7499	5909	4507							
		564	0.90	17.0	12484	11262	10368	9517	8480	7459	5612							
RBS-1L36-10	1	516	1.00	18.1	14192	13129	12638	11851	10082	8278								
		548	1.21	20.0	15072	14174	13722	13155	11525	9918	8074							
		551	1.21	20	15155	14271	13822	13275	11664	10069	8256							
RBS-1H36-10	1	585	1.00	18.4	12949	11784	11445	10152	9077	8116	6693	4741						
		621	1.20	21	13746	12671	12352	11584	10077	9206	8271	5959						
<b>Level 2 Performance</b>		<b>Max RPM</b>		<b>L - 690 H - 783</b>		<b>Max Motor Frame Size - 184T</b>												
RBS-2L36-10	1	516	1.00	18.1	14192	13129	12638	11851	10082	8278								
		548	1.21	20	15072	14174	13722	13155	11525	9918	8074							
RBS-2H36-10	1	585	1.00	18.4	12949	11784	11445	10152	9077	8116	6693	4741						
		621	1.20	21	13746	12671	12352	11584	10077	9206	8271	5959						
RBS-2L36-15	1-1/2	590	1.50	23	16228	15490	15108	14688	13443	11857	10344							
		628	1.81	26	17273	16580	16343	15949	14997	13594	12170	9930						
RBS-2H36-15	1-1/2	669	1.50	24	14808	13840	13544	13248	11527	10567	9753	8441	5249					
		711	1.80	28	15738	14846	14575	14296	12942	11761	10962	9770	6679					
RBS-2L36-20	2	650	2.00	28	17878	17208	17041	16670	15879	14597	13153	11072						
		690	2.41	33	18978	18347	18190	17970	17252	16276	14986	13056	9351					
RBS-2H36-20	2	737	2.01	30	16313	15453	15208	14939	14402	12556	11691	10571	7535	5483				
		783	2.41	35	17331	16521	16319	16067	15561	13933	13011	11918	10084	7068				
<b>Level 3 Performance</b>		<b>Max RPM</b>		<b>L - 919 H - 1417</b>		<b>Max Motor Frame Size - 184T</b>												
RBS-3L36-20	2	688	1.51	27	15058	14240	14004	13768	12994	12063	11040	9728	7209					
		756	2.00	32	16546	15814	15611	15396	14967	14135	13290	11933	9885	7388				
		804	2.40	35	17596	16908	16734	16533	16129	15553	14758	13499	11564	9594	6192			
RBS-3H36-20	2	895	1.53	35	13789	13213	13032	12850	12486	12097	11635	10657	8923	6978	5274			
		983	2.01	42	15144	14620	14484	14318	13987	13653	13298	12623	11126	9498	7713			
		1044	2.40	46	16084	15591	15467	15327	15015	14703	14380	13878	12546	11118	9475	6392		
RBS-3L36-30	3	865	3.00	40	18932	18291	18131	17964	17589	17214	16576	15468	13531	11749	9940			
		919	3.60	45	20113	19511	19360	19210	18869	18516	18148	17105	15274	13604	11865	6846		
RBS-3H36-30	3	1125	3.01	51	17332	16874	16760	16645	16366	16077	15787	15330	14355	13051	11699	8636		
		1195	3.60	57	18410	17979	17872	17764	17525	17252	16980	16566	15835	14654	13415	10636		
RBS-3H36-50	5	1333	5.00	71	20536	20150	20053	19957	19764	19543	19298	18932	18304	17648	16589	14365		
		1417	6.00	82	21831	21467	21376	21285	21103	20922	20694	20349	19775	19161	18438	16367		

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

Numbers in blue have a larger BHP and require the next largest size motor.





Model Number	Motor HP	Fan RPM	Max BHP	Sones	CFM / Static Pressure in Inches WG													
					0.00	0.10	0.125	0.20	0.25	0.375	0.50	0.625	0.75	1.00	1.25	1.50		
<b>Level 3 Performance</b>					<b>Max RPM</b>	<b>L - 504</b>	<b>H - 620</b>	<b>Max Motor Frame Size - 256T</b>						<b>TS = RPM x 18.802</b>				
RBS-3L72-20	2	223	1.56	16.3	38315	29369	25855	17195										
		244	2.04	18.6	41923	34410	31457	22749	17564									
		259	2.42	20	44500	37707	35305	26547	22177									
RBS-3H72-20	2	273	1.55	17.0	34192	27163	25455	19460	13130									
		299	2.01	19.4	37448	32375	29435	24865	20334									
		319	2.40	21	39953	35119	32984	28035	25143	11923								
RBS-3L72-30	3	277	3.00	23	47593	41523	39402	31307	26404									
		295	3.62	25	50685	45115	43335	36197	31114	20299								
RBS-3H72-30	3	341	3.00	23	42709	38098	37121	31523	28874	18327								
		364	3.62	26	45589	41179	40263	35079	32516	24397								
RBS-3L72-50	5	329	5.01	30	56527	51771	50278	45008	40251	29959								
		352	6.05	32	60479	56198	54802	50197	46283	35646	27004							
RBS-3H72-50	5	405	5.01	30	50724	46543	45777	42085	38919	33334	24583							
		432	6.13	33	54106	50033	49332	47047	43001	37635	30848	20879						
RBS-3L72-75	7-1/2	376	7.55	34	64602	60688	59460	55431	52220	41955	33678	24659						
		400	9.00	36	68726	65046	64064	60380	57541	48509	39430	32178						
RBS-3H72-75	7-1/2	464	7.66	37	58114	54140	53487	51414	49751	42704	37899	30121	19945					
		493	9.04	42	61746	57840	57226	55325	53973	47203	42539	36936	29389					
RBS-3L72-100	10	416	10.17	38	71475	67937	67052	63566	61027	52755	43688	36618	28327					
		440	12.00	42	75599	72253	71417	68294	66061	58965	50061	42214	35806					
RBS-3H72-100	10	511	10.03	47	64000	60128	59536	57733	56428	49944	45380	41106	33628					
		545	12.31	55	68259	64435	63879	62212	61024	55293	50753	46581	41691	25918				
RBS-3L72-150	15	475	15.20	48	81612	78513	77738	75095	73026	67189	59507	51431	44632	30997				
		504	18.00	55	86595	83674	82944	80661	78711	73552	67046	59275	52057	40100				
RBS-3H72-150	15	585	15.80	57	73268	69479	68961	67408	66369	63521	56905	52918	49112	37652	22395			
		620	18.10	60	77652	73877	73388	71923	70946	68315	62164	58402	54641	45820	32595			

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

Numbers in blue have a larger BHP and require the next largest size motor.































# Belt Drive Specifications



## Belt Drive - Models RBE, RBS, RBF, RBCE, RBCS and RBCF

Belt-driven, axial type hooded propeller roof fans shall be provided as follows:

Propellers shall be constructed with fabricated steel or cast aluminum blades and hubs. A standard square key and set screw or tapered bushing shall lock the propeller to the motor shaft. All propellers shall be statically and dynamically balanced.

Fan hood and base construction shall be galvanized steel, painted steel or aluminum. Hood panels shall be arched with interlocking ribs. Fan bases shall be low profile except where tall bases are specified. (Where access doors are required for inspection and service of damper and actuator, tall bases should be specified.) Hood support angles shall be heavy-gauge galvanized steel. Birdscreens constructed of 1/2-inch galvanized mesh shall be horizontally mounted in the discharge/intake perimeter of the hood.

Motors shall be permanently lubricated, heavy-duty type, matched to the fan load, and furnished at the specified voltage, phase and enclosure.

Drive frame and panel assemblies shall be galvanized steel or painted steel. Drive frames shall be formed channels and fan panels shall have a deep formed inlet venturi.

Ground and polished steel fan shafts shall be mounted in sealed ball bearing pillow blocks with grease zerks. 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 catalogued operating speeds. Drives shall be sized for a minimum of 150 percent of driven horsepower. Pulleys shall be fully machined cast iron, keyed and securely attached to propeller and motor shafts. Motor sheaves shall be adjustable for final system balancing.

The axial exhaust, supply and filtered supply fans shall bear the AMCA Certified Ratings seal for FEI, Sound and Air Performance.

Fans shall be models RBE, RBS, RBF, RBCE, RBCS, and RBCF as manufactured by Greenheck Fan Corporation, Schofield, Wisconsin, USA.

## Reversible - Models RPBR and RPBRF

All hooded reversible roof ventilators shall be belt drive axial type. Propeller construction shall be cast aluminum, airfoil, reversible design. A standard square key and set screw or taper lock bushing shall lock the propeller to the motor shaft. Propellers shall be statically and dynamically balanced.

Fan hood and base construction shall be aluminum, galvanized steel or painted steel as specified. Hood panels shall be arched with interlocking seams for weather protection. Fan bases shall be low profile except where tall bases are specified. (Where access doors are required to service dampers and actuators, tall bases should be specified).

Birdscreens constructed of 1/2-inch galvanized mesh shall be horizontally mounted in the discharge/intake perimeter of the hood. Hood support members shall be heavy-gauge galvanized steel angles.

Motors shall be heavy-duty ball bearing type carefully matched to the fan load and furnished at the specified voltage, phase and enclosure.

Drive frame assemblies shall be constructed of heavy-gauge steel angles. Fan panels shall be heavy-gauge steel with formed flanges and a double venturi.

Safety guards of heavy welded wire construction shall be attached to the underside of the fan panel.

Ground and polished steel fan shafts shall be mounted in sealed ball bearing pillow blocks with grease zerks. 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 catalogued operating speed. A standard square key and set screws or tapered lock bushing shall attach the propeller securely to the fan shaft. Retaining rings shall be provided at each end of the fan shaft. Pulleys shall be of the fully machined cast iron type, keyed and securely attached to the wheel and motor shafts. The motor sheaves shall be adjustable for final system balancing. Drives shall be sized for a minimum of 150 percent of driven horsepower.

Each unit shall bear a permanently affixed nametag with a fan model number, a serial number and a mark. Optional control centers shall bear a nametag with identical information.

Hooded reversible axial roof ventilators shall be belt drive models RPBR and RPBRF (filtered) as manufactured by Greenheck Fan Corporation, Schofield, Wisconsin, USA.

## Direct Drive - Models RE2, RS2, RCE3 and RCS3

Direct driven axial type hooded propeller roof fans shall be provided as follows:

Propellers shall be constructed with fabricated steel or cast aluminum blades and hubs. A standard square key and set screw or tapered bushing shall lock the propeller to the motor shaft. All propellers shall be statically and dynamically balanced.

Fan hood and base construction shall be galvanized steel, painted steel or aluminum. Hood panels shall be arched with interlocking ribs.

Fan bases shall be low profile except where tall bases are specified. (Where access doors are required for inspection and service of damper and actuator, tall bases should be specified.) Hood support angles shall be heavy-gauge galvanized steel. Birdscreens constructed of 1/2-inch galvanized mesh shall be horizontally mounted in the discharge/intake perimeter of the hood.

Motors shall be permanently lubricated, heavy-duty type, matched to the fan load, and furnished at the specified voltage, phase and enclosure.

Motor drive frame and panel assemblies shall be galvanized steel or painted steel. Drive frames shall be formed channels and fan panels shall have a deep formed inlet venturi.

The axial exhaust and supply fans shall bear the AMCA Certified Ratings seal for FEI, Sound and Air Performance.

Fans shall be models RE2, RS2, RCE3, and RCS3 as manufactured by Greenheck Fan Corporation, Schofield, Wisconsin, USA.

## Reversible - Models RPDR and RPDRF

All hooded reversible roof ventilators shall be direct drive axial type. Propeller construction shall be cast aluminum, airfoil, reversible design. A standard square key and set screw or taper lock bushing shall lock the propeller to the motor shaft. Propellers shall be statically and dynamically balanced.

Fan hood and base construction shall be aluminum, galvanized steel or painted steel as specified. Hood panels shall be arched with interlocking seams for weather protection. Fan bases shall be low profile except where tall bases are specified. (Where access doors are required to service dampers and actuators, tall bases should be specified.)

Birdscreens constructed of 1/2-inch galvanized mesh shall be horizontally mounted in the discharge/intake perimeter of the hood. Hood support members shall be heavy-gauge galvanized steel angles.

Motors shall be heavy-duty ball bearing type carefully matched to the fan load and furnished at the specified voltage, phase and enclosure.

Motor support frame assemblies shall be constructed of heavy-gauge steel angles. Fan panels shall be heavy-gauge steel with formed flanges and a double venturi.

Safety guards of heavy welded wire construction shall be attached to the underside of the fan panel.

Each unit shall bear a permanently affixed nametag with a fan model number, a serial number and a mark. Optional control centers shall bear a nametag with identical information.

Hooded reversible axial roof ventilators shall be direct drive models RPDR and RPDRF (filtered) as manufactured by Greenheck Fan Corporation, Schofield, Wisconsin, USA.

# Basics of Fan Selection

The first consideration in any fan selection is the amount of air to be moved and the resistance to this air movement. With specific performance and application criteria in mind, propeller fan selections typically require decisions based on the following criteria:

## Belt Drive vs. Direct Drive

Belt drive fans offer the ability to adjust fan speed for system balancing if necessary. They also offer more flexibility in speeds and motor selections. In a cost comparison, belt drive fans are typically less costly than comparable size direct drive fans with low speed motors.

Direct drive fans are often preferred for jobs where maintenance access is difficult. Maintenance costs are generally lower with direct drive fans since there are no belts or bearings to replace and no pulleys to adjust.

## Larger Fans vs. Smaller Fans

In most applications, several fans may meet the specified airflow and pressure requirements. Just as larger fans tend to turn slower and generate less sound, they also tend to have higher initial costs but lower operating costs.

Smaller fans have more stable performance curves, lower initial costs, higher sound levels and higher operating costs because of their higher speeds.

## Low Sound vs.

## High Static Pressure

Fans selected for high static pressures run at higher speeds and produce higher tip speeds resulting in higher sound levels. Conversely, in low pressure applications fans generally run at lower speeds producing lower sound levels and are recommended for sound sensitive applications.

## How Accessories Affect Static Pressure

All accessory losses must be accounted for when calculating the static pressure load for a fan. In reality, dampers and damper guards add very little to the total system pressure when properly installed. This means propeller roof fans can be specified with low-pressure capabilities (below 3/8 in. wg) when used in conjunction with properly applied accessories (as within our installation recommendations).

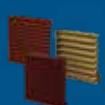
When fans are over-specified to compensate for losses that do not exist, both cost and sound levels can be higher than necessary. This results primarily from larger motors and higher tip speeds.

## Motor Service Factor

Hooded roof fan motors are cooled by the airstream. With an uninterrupted flow of cooling air, motors may operate in the service factor range (up to 20% above the motor nameplate horsepower) without damage due to overheating.

Lesser overloads are recommended for applications using totally enclosed or explosion resistant motors.

Belt drive performance tables in this catalog show two RPM selections for each propeller type (L or H) at a given motor horsepower. The first selection is a 1.0 brake horsepower (BHP) service factor. The second speed selection is at 1.2 Bhp service factor. Direct drive performance tables show BHP levels with service factors ranging up to 1.2 Bhp. When a selection at 1.2 Bhp service factor is not desirable for the application, specify the next higher motor horsepower.



## Our Commitment

*As a result of our commitment to continuous improvement, Greenheck reserves the right to change specifications without notice.*

Specific Greenheck product warranties are located on [greenheck.com](http://greenheck.com) within the product area tabs and in the Library under Warranties.

