

Propeller Upblast Roof Fans Models RBU, RBUMO and RDU

Direct Drive and Belt Drive



BUILDING VALUE IN AIR.



October
2023

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Greenheck Fan Corporation certifies that the RBU, RBUMO and RDU 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.



RDU, RBU, RBUMO models are listed for electrical (UL/cUL 705) File no. E40001

RBUMO model is Listed for Emergency Smoke Control Systems File No. MH17511

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Model Comparison																		
Model	Location		Mounting					Airflow				Application						
	Outdoor	Indoor	Roof Curb	Base/Floor	Hanging	Wall	Ceiling Mounted	Exhaust	Supply	Reversible	Recirculate	General/Clean Air	Contaminated Air	Spark Resistant	Grease (UL/cUL 705)	Smoke Control (UL)	High Wind (150 mph)	High Temp (above 200°F)
RDU	✓		✓					✓				✓	✓	✓				
RBUM	✓		✓					✓				✓	✓					
RBUM	✓		✓					✓				✓	✓			✓		✓

Greenheck upblast propeller fans are designed to discharge contaminants up and away from the building for most commercial jobs and many industrial applications. These roof exhaust fans are available in both belt and direct drives with steel or aluminum blades. Drive frames and panels are constructed to match the level of duty and motor size.

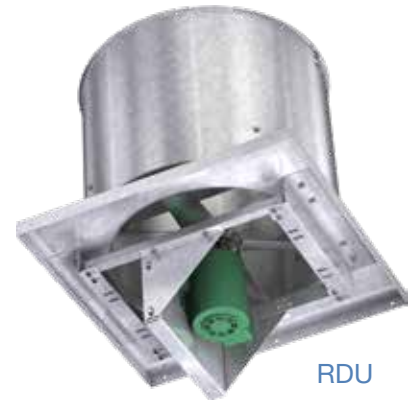
- Wide range of construction and performance capabilities provide for the most complete upblast propeller fan line available.
- Regardless of fan size, performance or duty level, all upblast propeller roof fans are built to perform with the same high standards of reliability and durability.
- Greenheck subjects these products to extensive life testing, assuring you that the fans will provide years of reliable performance.
- Performance as cataloged is assured. All RBUM, RBUM and RDU models are tested in our AMCA accredited laboratory and all are licensed to bear the AMCA FEI, Sound and Air Performance seal.

Direct Drive RDU

- Preferred for jobs where maintenance access is difficult.
- Maintenance costs are generally lower; no belts or bearings to replace, no pulleys to adjust.

Belt Drive RBUM and RBUM

- RBUM has the motor in the airstream.
- RBUM has the motor out of the airstream, allowing for high temperature air to be exhausted.
- Fan speed can be adjusted for system balancing.
- Models offer flexibility in speeds and motor selections.



RDU



RBUM



RBUM

Direct Drive Fan Selection

These models are designed and constructed for applications with static pressure ranges up to 1 in. wg. Propellers are cast aluminum. 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		Model Performance Pages	Size Range Diameter	Performance	Propeller
Level 3	Cast aluminum airfoil blades	RDU page 17	24 to 48 inch	Up to 43,500 cfm and up to 0.75 in. wg	

Belt Drive Fan Selection Propeller Types

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

Construction Levels		Model Performance Pages	Size Range Diameter	Performance	Propellers
Level 1	Galvanized steel blades riveted to the hub	RBU pages 18-20 and RBUMO pages 23-25	24 to 36 inch	Up to 16,500 cfm and up to 0.625 in. wg	
Level 2		RBU page 18	24 inch	Up to 8070 cfm and up to 0.5 in. wg	
Level 2	Gusseted galvanized steel blades riveted to the hub	RBU pages 19-22 and RBUMO pages 23-27	30 to 54 inch	Up to 46,000 cfm and up to 0.75 in. wg	
Level 3	Fully welded and gusseted steel blades	RBU pages 18-22 and RBUMO pages 23-27	24 to 60 inch	Up to 68,000 cfm and up to 1 in. wg	

Belt Drive Blade Designs



H Type Propeller:

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



L Type 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 or less.

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, produce 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. This means upblast 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 actually exist, both cost and sound levels can be higher than necessary. This most commonly results from larger motors and higher tip speeds.

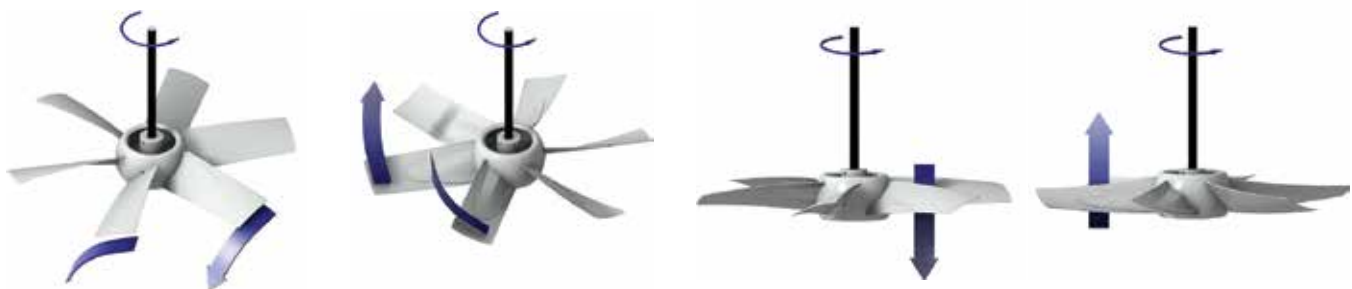
Motor Service Factor

Upblast roof fan motors (except for the model RBUMO) are cooled by the airstream. With an uninterrupted flow of cooling air, motors may be operated in their 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 RPM selections for each propeller type (L or H) at a given motor horsepower. The first selection is a 1.0 motor service factor. The second speed selection is at 1.2 motor service factor. Direct drive performance tables show BHP levels with motor service factors ranging up to 1.2. When a selection using the motor service factor is not desirable for the application, specify the next higher motor horsepower.

Propeller Fan Rotation Guide

The propeller blade should cup and throw the air when rotating in the correct rotation as shown below.



- 1 **Windband** is heavy-gauge galvanized (or painted) steel construction with bolted seams. Edges are reinforced for added strength and have built-in damper stops.
- 2 **Curb Caps** are constructed of galvanized steel in sizes 24-48. Sizes 54 and 60 are constructed of painted steel. Curb caps include an integral venturi inlet and prepunched mounting holes.
- 3 **Drive Frames** are die-formed, galvanized structural steel to provide a rigid platform for motors, shafts, bearings and drives.
- 4 **Adjustable Motor Plate** for belt tensioning.
- 5 **Drive Assembly** belts, pulleys and keys are sized for 150% of driven horsepower.
- 6 **Variable Pitch Motor Pulley** allows for fan speed adjustments of 10-15%. Size 42 and larger have fixed pulleys.
- 7 **Belts** are static-resistant and oil free.
- 8 **Bearings** are 100% factory tested and designed specifically for air handling applications with a minimum L₁₀ life in excess of 100,000 hours (L₅₀ life of 500,000 hours).
Level 1: Stamped steel pillow block bearings.
Level 2 and 3: Cast iron pillow block bearings with grease fittings (on RBU and RBUMO).
- 9 **Fan Shaft** is precisely sized, ground and polished so the first critical speed is at least 25% over the maximum operating speed. Where the shaft makes contact with bearings, close tolerances result in longer bearing life.
- 10 **Fasteners** are corrosion-resistant.
- 11 **Aluminum Butterfly Dampers** provide weather protection and prevent backdrafts when the fan is not in operation. Standard damper blade construction is aluminum with galvanized steel construction optional.
- 12 **Fan Base** and motor cover is constructed of galvanized steel.
- 13 **Windband Mounting Brackets** are designed to also be used as **Lifting Lugs** for ease when lifting unit to the roof deck.

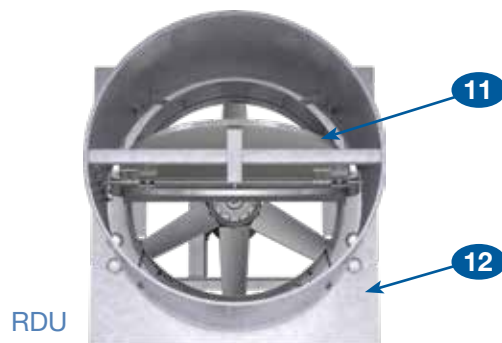
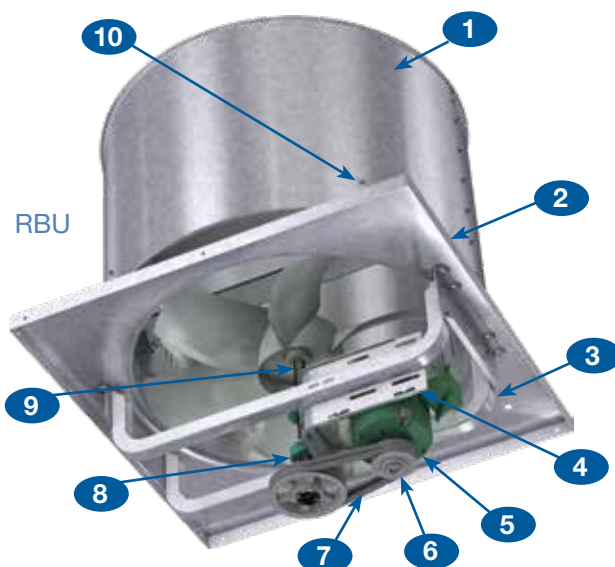
Propellers

Level 1: Galvanized steel, riveted blades.

Level 2: Reinforced galvanized steel, riveted blades.

Level 3: RBU and RBUMO - Heavy-duty, welded reinforced, steel blades.
RDU - Heavy-duty, cast aluminum blades, all with keyed hubs.

Note: Construction features are standard on all models in this catalog. Various models are shown on this page.



Motors

Motors are heavy-duty ball bearing type.

Motor Sheaves

Adjustable for system balancing (sizes 42 and larger are fixed pitch).

Construction Details

Models RBU, RBUMO and RDU



LEVEL 1	Material Gauges							Belt Drive Shaft Size*	Max Motor Frame Size
	Fan Size	Windband Galv.	Curb Cap Galv.	Butterfly Damper		RBUMO Housing Galv.	Drive Frame Channel		
				Galv.	Alum.				
				24	20			16	24
30	20	16	24	0.040	18	11	3/4	56	
36	20	16	20	0.051	18	11	3/4	145T	
LEVEL 2	24	20	16	24	0.040	18	14	3/4	145T
	30	20	16	24	0.040	18	11	1	184T
	36	20	16	20	0.051	18	11	1	184T
	42	20	14	20	0.064	18	11	1-1/4	184T
	48	20	14	20	0.064	18	11	1-1/4	184T
	54	18	14	18	0.080	16	11	1-1/4	184T

*Approximate weight does not include accessories. *All dimensions in inches and weight is shown in pounds.

LEVEL 3	Material Gauges								Belt Drive Shaft Size*	Max Motor Frame Size	
	Fan Size	Windband Galv.	Curb Cap Galv.	Butterfly Damper		RBUMO Housing Galv.	Drive Frame Channel				
				Galv.	Alum.		Belt	Direct			
	24	20	16	24	0.040	18	14	11	3/4	145T	182T
	30	20	16	24	0.040	18	11	11	1	184T	184T
36	20	16	20	0.051	18	11	8	1-1/4	184T	215T	
42	20	14	20	0.064	18	11	8	1-1/2	215T	254T	
48	20	14	20	0.064	18	11	8	1-1/2	215T	256T	
54	18	14	18	0.080	16	11	—	1-1/2	254T	—	
60	18	14	18	0.080	16	11	—	1-3/4	256T	—	

*Approximate weight does not include accessories. *All dimensions in inches and weight is shown in pounds.



RBUMO

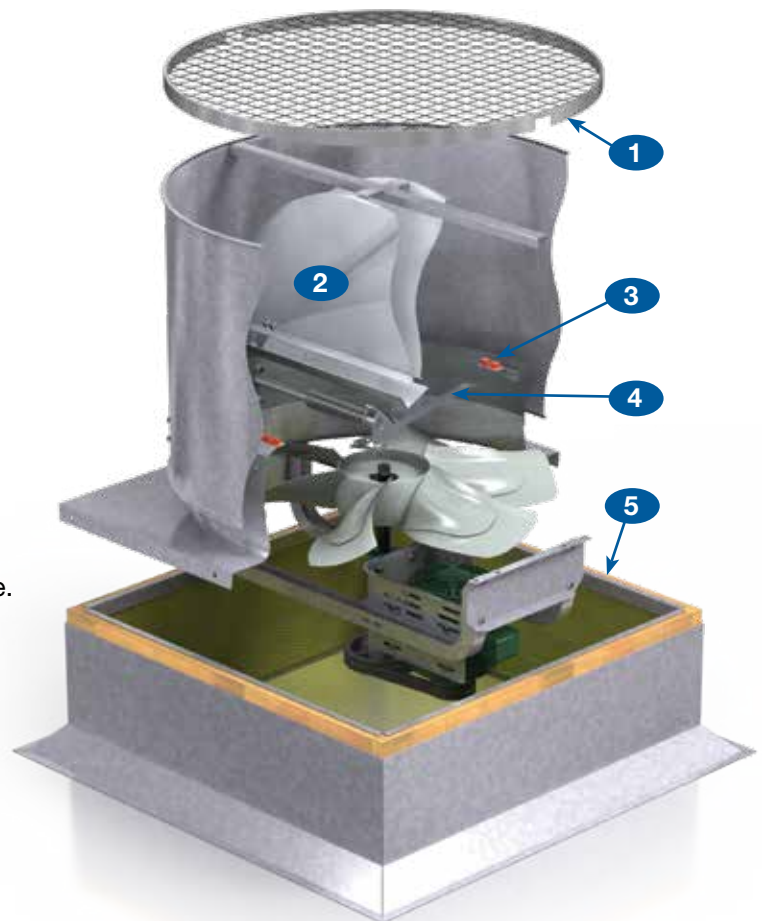
Service Features

NOTE: To service RBU and RDU fans, it is recommended the fan be accessed from below (looking up). If this is not possible, the fan may be serviced by taking off the removable windband.

- 1 Removable Windband**
The windband can be lifted off by removing the bolts from the four windband mounting brackets. When the windband is removed, access to the fan can be made through the butterfly dampers. For specific details on this procedure, please refer to the Installation Operation and Maintenance Manual for this model found on greenheck.com
- 2 Motor Out of Airstream**
Model RBUMO simplifies inspection and servicing with the “motor out of the airstream” design.
- 3 Removable Motor Cover**
Enables quick and easy access to the motor, belt and drives from the roof deck.

Accessories

- 1 Outlet Screen**
Screen is constructed of heavy-gauge steel mesh and is available to shield the fan discharge and dampers from debris. Outlet screens cannot be used in conjunction with motorized butterfly dampers.
- 2 Steel Butterfly Dampers**
For installations where standard aluminum construction is not desired. Refer to notes on performance pages for the minimum airflow volumes to open dampers.
- 3 Magnetic Damper Latches**
Available to minimize damper flutter when the fan is not in operation.
- 4 Fusible Link Damper Lifters**
Available to automatically open the butterfly dampers when the air temperature below the damper blades exceeds 165°F (74°C). Fusible links for higher temperatures are also available. The damper blades are held open to provide smoke and heat relief with no electrical power required.
- 5 Roof Curbs**
Roof curbs reduce installation time and costs by ensuring compatibility between the fan, the curb and the roof opening. All curbs are lined with fiberglass insulation to prevent condensation and reduce sound levels. See Greenheck’s roof curb catalog for complete details.



Aluminum Propellers

Available for spark resistance.

Extended Lube Lines

For belt-driven fans—lubrication lines with grease fittings that extend from the shaft bearings to the exterior of the fan base. Extended lube lines allow for bearing lubrication from the rooftop without disassembling the fan.

Inlet Guards

Model RBUMO fans are available with protective guards for mounting to the fan inlet. For models RBU and RDU, protective guards are available when mounted within a base extension.

NOTE: When an inlet guard is not ordered with the fan, it should be provided by the installer.

Motorized Butterfly Dampers

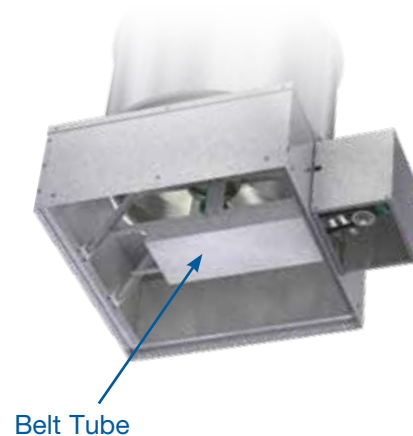
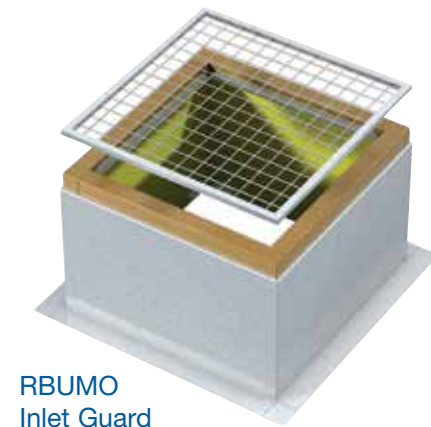
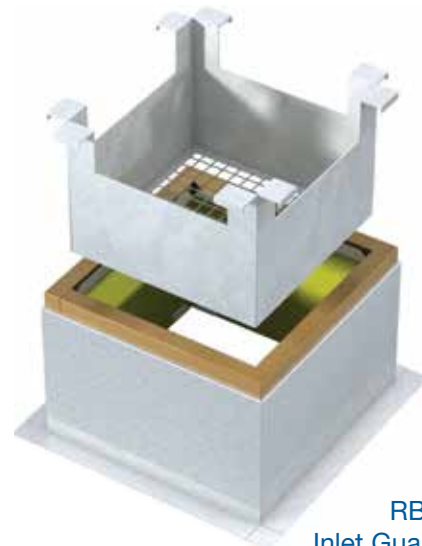
Available for low CFM applications that insufficiently open the butterfly dampers and for use with two-speed motors at low speed.

Coatings

Decorative and protective coatings are offered to protect the fan from harsh atmospheres where galvanized steel is not sufficient. Decorative coatings are available in a variety of colors to match existing building fixtures.

Belt Tube

Available on model RBUMO to isolate the drive components from airstream contaminants.



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

Motors

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



Controls

For expanded controllability, Greenheck offers many different solutions to fit any need. Controls are designed specifically for Vari-Green motors. These controls are available for applications requiring manual operation or demand-controlled ventilation (DCV). Applications utilizing DCV controls provide only the desired amount of ventilation, delivering building owners savings on their energy bills.



Manual Controls

- Dial-on Motor
- Remote Dial
- Touch Remote

Demand Controlled Ventilation

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



High Temperature Option

500°F (260°C) for a minimum of 4 hours

1000°F (538°C) for a minimum of 15 minutes

This construction meets specifications for IRI requirements of 500°F (260°C) air for a minimum of 4 hours and the SBCCI “Standard Fire Prevention Code” requirements of 1000°F (538°C) for a minimum of 15 minutes in emergency smoke removal applications. In addition, this construction exceeds British Standards 7346 Class B (250°C for 2 hours), Class C (300°C for 30 minutes) and Class D (300°C for 1 hour) temperature requirements. Temperature ratings are tested in accordance to UL smoke control systems.

High Temperature Option - UL Listed

(Construction Levels 2 and 3 only)

500°F (260°C) for a minimum of 4 hours

1000°F (538°C) for a minimum of 15 minutes

Snow Load Test for butterfly dampers in UL 793

This construction meets specifications for UL Listed “Power Ventilators for Smoke Control Systems”. This includes the IRI requirements of 500°F for a minimum of 4 hours, the SBCCI “Standard Fire Prevention Code” requirements of 1000°F for a minimum of 15 minutes and the Snow Load Test for butterfly dampers (10 pounds of lifting per square foot) in UL 793. In addition, this construction exceeds British Standards 7346 Class B (250°C for 2 hours), Class C (300°C for 30 minutes) and Class D (300°C for 1 hour) temperature requirements.

NOTE: Model RBUMO accommodates airstream temperatures up to 180°F (82°C) without high temperature features. For continuous high temperature operation from 180°F (82°C) to 500°F (260°C), use Greenheck model TAUB with its corresponding high temperature option.



Emergency Smoke Removal

Greenheck model RBUMO can be equipped for emergency smoke removal applications by specifying a high temperature option. The table shows the construction features included with high temperature options that enable the exhaust of heat and smoke at 500°F (260°C) for a minimum of 4 hours or 1000°F (538°C) for a minimum of 15 minutes.

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

Features	High Temperature Option	High Temperature Option with UL/cUL 793*
165°F (74°C) Fusible link damper lifters	✓	
165°F (74°C) Fusible link damper lifters that will lift 10 pounds per square foot		✓
Belt tube with heat shield	✓	✓
Dual drives	✓	✓
High temperature bearings	✓	✓
UL label (Power ventilators for smoke control systems)		✓

* Construction Level 2 and Level 3 only

Wiring

Wiring from the motor to the disconnect box is provided when a fan is ordered with a mounted disconnect.

UL/cUL 705

All model RBU and selected model RDU fans with totally enclosed motors are available with the UL/cUL 705 Listing for electrical. The UL/cUL 705 Listing is available on Model RBUMO fans with open and totally enclosed motors.



RDU, RBU, RBUMO models are Listed for electrical (UL/cUL 705)
File No. E40001

Motor Selection

Motor frame size, enclosure type and fan size limit the available standard motor selections. Consult your local Greenheck representative or the factory for motor availability.

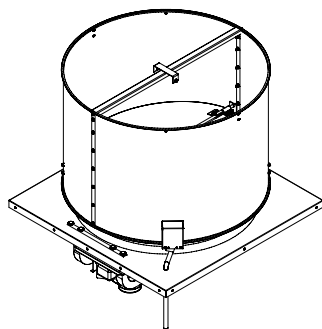
Disconnect Switches

Toggle type and heavy-duty disconnect switches are available for positive electrical shut-off and safety when servicing fans. The following switches are available to meet individual electrical requirements and can be factory mounted or shipped loose for field mounting.

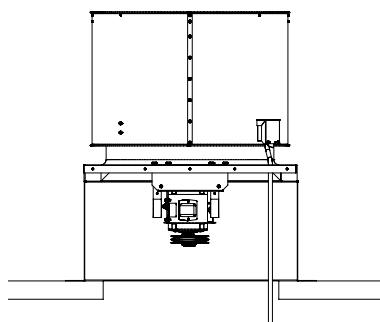
Heavy Duty	Toggle	
		• NEMA-3R Rain-Resistant • NEMA-4 Watertight • NEMA-3R and NEMA-4 Heavy-Duty • NEMA-7 and 9 for Class 1 and Class 2 hazardous locations.
NEMA-3R and 4	NEMA-7 and 9 NEMA-3R	

Disconnect Wiring Options **Note:** Conduit and wiring by others

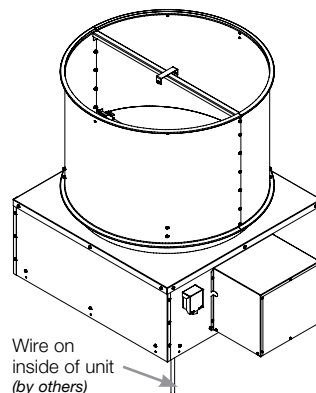
Typical Installation



Disconnect Installation
RBU with NEMA-3R



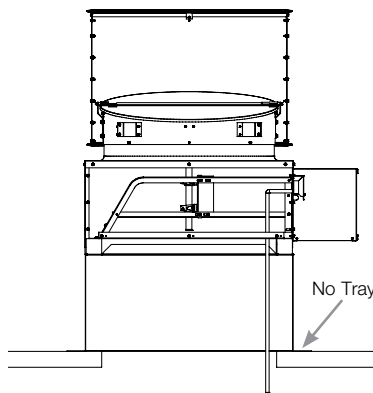
RBU on a GPI Curb with NEMA-3R



Wire on
inside of unit
(by others)

Disconnect Installation
RBUMO with NEMA-3R

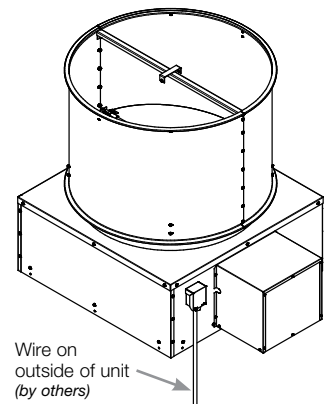
Not recommended for high temperature exhaust



RBUMO with GPI and NEMA-3R

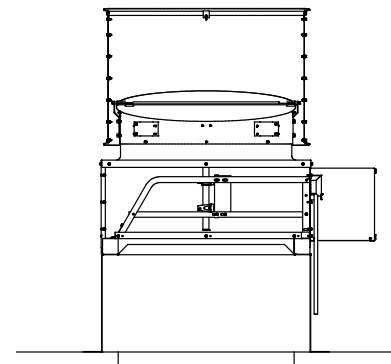
No Tray

High Temperature Installation



Wire on
outside of unit
(by others)

Disconnect Installation
RBUMO with NEMA-3R



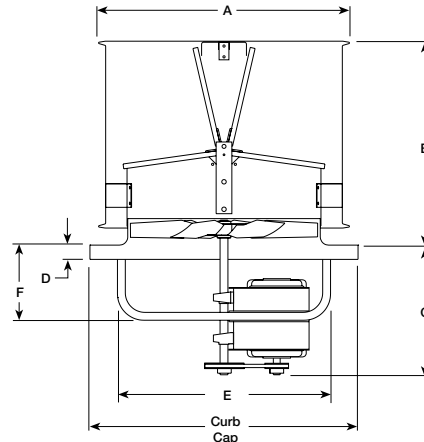
RBUMO with GPI and NEMA-3R

Dimensional Data

Level 1, 2 and 3 Models RBU and RBUMO



Model RBU

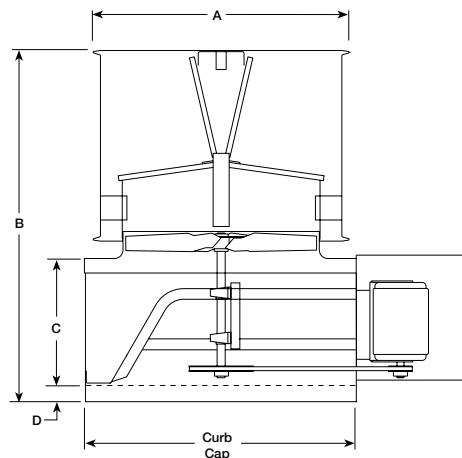


Model RBU - Belt Drive									Maximum Recommended Roof Opening
Model Size	A	B	C*		D	E	F	Curb Cap (Inside)	
			Level						
			1, 2	3					
24	31-1/8	26	15-1/2	16-3/4	1-3/4	27-3/8	9-7/16	34	30-1/2
30	37-3/8	30	15-1/2	16-3/4	1-3/4	34-3/4	9-7/8	40	36-1/2
36	43-1/2	33	16-3/4	16-3/4	1-3/4	40-7/8	9-7/8	46	42-1/2
42	49-5/6	38	19-3/8	23-7/8	1-3/4	46-3/4	11-3/4	52	48-1/2
48	56	40	19-3/8	23-7/8	1-3/4	52-3/4	11-3/4	58	54-1/2
54	62-5/8	45	19-1/4	26-7/8	1-3/4	61-1/4	11-1/2	66-1/2	63
60	68-3/4	48	21-1/4	27	1-3/4	66-1/4	15	72-1/2	69

All dimensions are in inches. *Dimension may vary depending on motor.



Model RBUMO

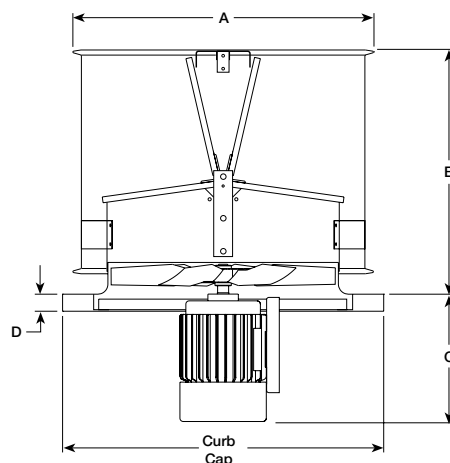


Model RBUMO - Belt Drive						Maximum Recommended Roof Opening
Model Size	A	B*	C*	D	Curb Cap (Inside)	
24	31-1/8	45-5/6	17-1/2	2-1/4	33-1/2	30
30	37-3/8	51-3/4	19-1/2	2-1/4	39-1/2	36
36	43-1/2	55	19-1/2	2-1/4	45-1/2	42
42	49-5/6	59-5/8	19-5/8	2-1/4	51-1/2	48
48	56	63-5/6	21-3/4	2-1/4	57-1/2	54
54	62-5/8	70-5/8	22-3/4	2-1/4	66	62-1/2
60	68-3/4	75	23	2-1/4	72	68-1/2

All dimensions shown in inches. *Sizes greater than 36 with high temperature option will be 5 inches larger. *Dimension may vary depending on motor.



Model RDU



Model RDU - Direct Drive						Maximum Recommended Roof Opening
Model Size	A	B	C*	D	Curb Cap (Inside)	
24	31-1/8	26	13-1/2	1-3/4	34	30-1/2
30	37-3/8	30	13-1/8	1-3/4	40	36-1/2
36	43-1/2	33	12-15/16	1-3/4	46	42-1/2
42	49-5/6	38	18-1/2	1-3/4	52	48-1/2
48	56	40	18-1/2	1-3/4	58	54-1/2

All dimensions shown in inches. *Dimension may vary depending on motor.

Weights

Level 1, 2 and 3 Models RBU and RBUMO

Approximate Weights*							
Model Size	Level 1		Level 2		Level 3		
	RBU	RBUMO	RBU	RBUMO	RBU	RBUMO	RDU
24	170	248	174	254	178	262	200
30	232	335	242	346	273	368	218
36	267	385	292	410	327	440	288
42	–	–	411	535	418	542	351
48	–	–	555	703	602	750	484
54	–	–	705	848	717	915	–
60	–	–	–	–	817	1063	–

*Approximate weight does not include accessories. *Weight shown in pounds.

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.

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

Model Number	Motor HP	Fan RPM	Max Bhp	*Sones	Volume (CFM) / Static Pressure (In. wg)												
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000	
Level 1 Performance			Max RPM	L - 695	H - 963	Max Motor Frame Size - 56						TS = RPM x 7.854					
RBU-1L30-3	1/3	454	0.25	10.7	7256												
RBU-1L30-3	1/3	499	0.33	11.7	7975	6266	6266										
RBU-1L30-3	1/3	531	0.40	12.6	8487	6888	6472										
RBU-1H30-3	1/3	572	0.25	11.7	6491												
RBU-1H30-3	1/3	626	0.33	13.2	7113	6094											
RBU-1H30-3	1/3	669	0.40	14.2	7602	6659	6401	6131									
RBU-1L30-5	1/2	571	0.50	13.7	9126	7622	7262	6875									
RBU-1L30-5	1/2	607	0.60	14.8	9701	8268	7951	7593									
RBU-1H30-5	1/2	720	0.50	16.5	8181	7316	7079	6839	6300								
RBU-1H30-5	1/2	764	0.60	17.6	8681	7875	7653	7428	6955	6419							
RBU-1L30-7	3/4	654	0.75	16.4	10452	9097	8803	8507	7831								
RBU-1L30-7	3/4	695	0.90	18.0	11108	9822	9534	9257	8651	7844							
RBU-1H30-7	3/4	824	0.75	19.0	9363	8628	8422	8216	7797	7329	6824						
RBU-1H30-7	3/4	875	0.90	22	9942	9261	9067	8873	8481	8081	7613	6874					
RBU-1H30-10	1	908	1.00	25	10317	9666	9481	9294	8918	8538	8108	7415					
RBU-1H30-10	1	963	1.20	27	10942	10328	10165	9989	9637	9279	8918	8280	7021				

“L” type

Low pressure propeller

“H” type

High pressure propeller

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

Note that each max. BHP is cataloged at a 1.0 and 1.2 motor service factor. See page 5 for more details.

Optimum selection range for the “L” type propeller.

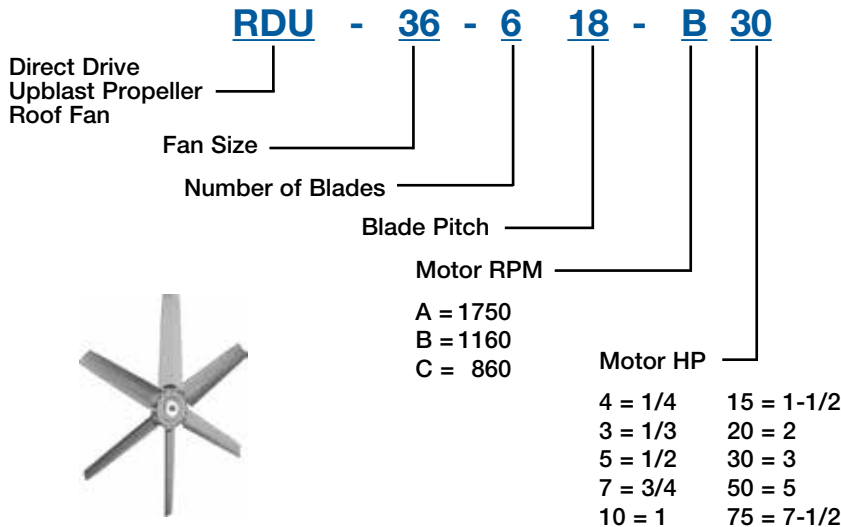
Optimum selection range for the “H” type propeller.

Minimum CFM required to open dampers
Aluminum Dampers: 6050
Steel Dampers: 7130

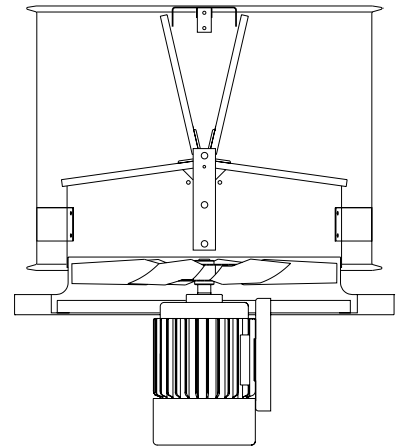
CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.

Model Number Code - Direct Drive

The model number code is designed to completely identify the fan. A detailed explanation of the RDU model number is shown below.

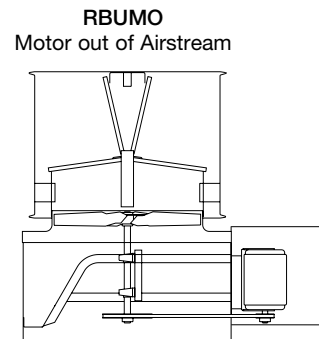
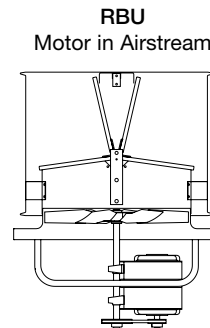
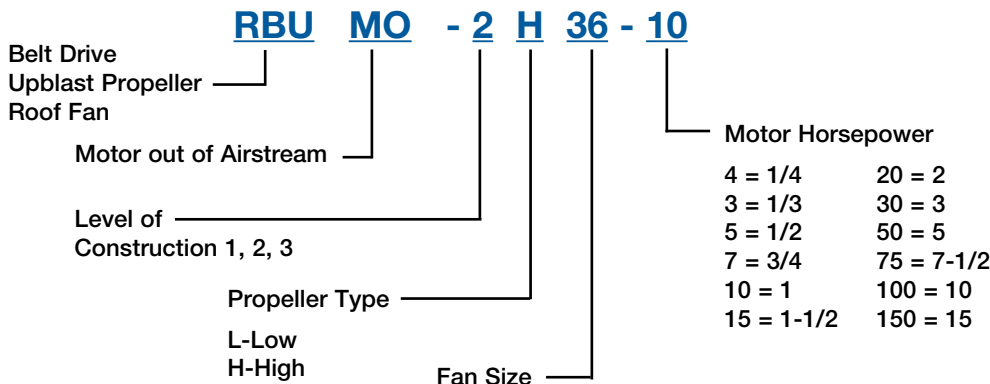


All propellers for model RDU fans are cast aluminum construction.



Model Number Code - Belt Drive

The model number system is designed to completely identify the fan. The correct code letters must be specified to designate motor in airstream or motor out of airstream. The remainder of the model number is determined by the size and performance selected from the following pages. A detailed explanation of the model number code is shown below.



RDU-24 – 48 Direct Drive

Model Number	Motor HP	Fan RPM	Max Bhp	*Sones	Volume (CFM) / Static Pressure (in. wg)															
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000				
RDU-24-622-C4	1/4	860	0.27	15.2	4720	4111														
RDU-24-628-C3	1/3	860	0.36	15.5	5293	4670	4470	4266							Minimum CFM required to open dampers Aluminum Dampers: 3950 Steel Dampers: 5220					
RDU-24-411-B4	1/4	1140	0.23	21	4372															
RDU-24-416-B3	1/3	1140	0.36	22	5248	4737	4594	4446	4102											
RDU-24-620-B5	1/2	1140	0.58	24	6055	5643	5517	5391	5120	4861	4578									
RDU-24-628-B7	3/4	1140	0.85	26	7016	6577	6454	6330	6044	5739	5429									
RDU-24-635-B10	1	1140	1.13	28	7661	7152	7019	6886	6576											
RDU-24-304-A3	1/3	1725	0.35	32	4632	4207	4086	3964												
RDU-24-309-A5	1/2	1725	0.54	34	5844	5443	5341	5238	5018	4777	4495	4022								
RDU-24-411-A7	3/4	1725	0.81	38	6617	6306	6220	6123	5929	5740	5553	5209	4509							
RDU-24-613-A10	1	1725	1.21	43	7271	7024	6962	6899	6764	6628	6493	6282	5889							
RDU-24-617-A15	1-1/2	1725	1.67	44	8422	8148	8080	8011	7873	7734	7595	7364	6956	6505	5713					
RDU-24-622-A20	2	1725	2.15	47	9469	9206	9141	9075	8937	8770	8603	8346	7894	7412	6867					
RDU-24-630-A30	3	1725	3.19	54	10952	10631	10551	10471	10311	10152	9993	9748	9267	8756						
RDU-30-416-C3	1/3	860	0.38	18.9	7927	6810	6462	6094							Minimum CFM required to open dampers Aluminum Dampers: 6050 Steel Dampers: 7130					
RDU-30-618-C5	1/2	860	0.57	21	8669	7729	7498	7266	6699											
RDU-30-625-C7	3/4	860	0.85	21	10393	9494	9232	8923	8272	7591										
RDU-30-632-C10	1	860	1.15	24	11515	10497	10245	9891	9115	8329										
RDU-30-307-B3	1/3	1140	0.38	40	7386	6463	6212													
RDU-30-315-B5	1/2	1140	0.63	25	9321	8409	8158	7895	7254	6544										
RDU-30-416-B7	3/4	1140	0.89	32	10507	9722	9512	9287	8783	8227	7695	6656								
RDU-30-422-B10	1	1140	1.18	35	11647	10816	10580	10347	9893	9394	8826	7751								
RDU-30-430-B15	1-1/2	1140	1.70	37	13067	12049	11781	11486	10876	10355	9768	8637								
RDU-30-628-B20	2	1140	2.28	36	14530	13816	13655	13493	13171	12743	12100	11265								
RDU-36-308-C3	1/3	860	0.40	21	9872	8056									Minimum CFM required to open dampers Aluminum Dampers: 7620 Steel Dampers: 10980					
RDU-36-313-C5	1/2	860	0.54	25	11220	9523	9028	8468												
RDU-36-414-C7	3/4	860	0.76	24	12543	11115	10700	10239	9200	7727										
RDU-36-615-C10	1	860	1.19	27	14459	13327	13018	12683	11962	11146	10158	8083								
RDU-36-622-C15	1-1/2	860	1.72	28	16715	15553	15206	14844	13988	13118	12105									
RDU-36-628-C20	2	860	2.22	31	18062	16604	16260	15831	14876	13917	12722									
RDU-36-303-B5	1/2	1140	0.57	34	10004	8726	8364	8020												
RDU-36-308-B10	1	1140	0.94	33	13087	11802	11461	11068	10324	9409	8240									
RDU-36-318-B15	1-1/2	1140	1.72	37	16515	15146	14768	14407	13675	12863	11797	10059								
RDU-36-612-B20	2	1140	2.26	44	17601	16764	16541	16311	15852	15353	14830	13955	12254	10056						
RDU-36-618-B30	3	1140	3.47	49	21168	20299	20082	19853	19392	18931	18376	17466								
RDU-36-629-B50	5	1140	5.41	54	24105	23042	22776	22508	21972	21368	20507	19378	17312							
RDU-42-605-C10	1	860	1.24	34	14640	13254	12891	12556	11886	11297					Minimum CFM required to open dampers Aluminum Dampers: 11050 Steel Dampers: 13550					
RDU-42-318-C15	1-1/2	860	1.83	35	20075	17913	17294	16677	15253	13365	11434									
RDU-42-326-C20	2	860	2.39	36	22377	19401	18665	17914	16299	14329	11788									
RDU-42-430-C30	3	860	3.60	45	25630	22907	22278	21640	20210	18568	16592	12434								
RDU-48-306-C10	1	860	1.21	39	20430	17957	17317	16677	15166	13454					Minimum CFM required to open dampers Aluminum Dampers: 12820 Steel Dampers: 16420					
RDU-48-311-C15	1-1/2	860	1.81	39	24974	22700	22090	21397	19872	18138	16088									
RDU-48-316-C20	2	860	2.44	39	28517	25985	25197	24406	22786	20954	18705	14253								
RDU-48-417-C30	3	860	3.49	46	31630	29602	29019	28435	27152	25731	24060	21100	14269							
RDU-48-621-C50	5	860	5.86	52	37854	36010	35553	35121	34257	33393	32340	30675	26552	20719	12453					
RDU-48-630-C75	7-1/2	860	8.83	55	43433	41386	40786	40100	38727	37353	35980	33238	28482	18414	12755					

Minimum CFM required to open dampers
 Aluminum Dampers: 3950
 Steel Dampers: 5220

Minimum CFM required to open dampers
 Aluminum Dampers: 6050
 Steel Dampers: 7130

Minimum CFM required to open dampers
 Aluminum Dampers: 7620
 Steel Dampers: 10980

Minimum CFM required to open dampers
 Aluminum Dampers: 11050
 Steel Dampers: 13550

Minimum CFM required to open dampers
 Aluminum Dampers: 12820
 Steel Dampers: 16420

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

*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.

Model Number	Motor HP	Fan RPM	Max Bhp	*Sones	CFM / Static Pressure in In. wg											
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000
Level 1 Performance		Max RPM		L - 808	H - 1351		Max Motor Frame Size - 56						TS = RPM x 6.283			
RBU-1L24-4	1/4	525	0.16	13.0	4412								Minimum CFM required to open dampers Aluminum Dampers: 3950 Steel Dampers: 5220			
RBU-1L24-4	1/4	604	0.25	14.0	5076	4093										
RBU-1L24-4	1/4	642	0.30	14.5	5396	4506	4204									
RBU-1H24-4	1/4	750	0.16	10.4	4098											
RBU-1H24-4	1/4	867	0.25	13.8	4737	4181	4047									
RBU-1H24-4	1/4	930	0.30	16.3	5081	4581	4435	4310	4024				CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.			
RBU-1L24-3	1/3	662	0.33	14.8	5564	4719	4429	4132								
RBU-1L24-3	1/3	706	0.40	15.8	5934	5180	4911	4636								
RBU-1H24-3	1/3	964	0.33	17.3	5267	4799	4642	4521	4265							
RBU-1H24-3	1/3	1021	0.40	18.1	5578	5159	5001	4872	4644	4365						
RBU-1L24-5	1/2	760	0.50	17.1	6388	5707	5486	5236	4720							
RBU-1L24-5	1/2	808	0.60	18.2	6791	6158	5984	5750	5271							
RBU-1H24-5	1/2	1097	0.50	19.6	5994	5635	5487	5340	5121	4904	4627					
RBU-1H24-5	1/2	1176	0.60	21	6425	6109	5985	5847	5608	5410	5191					
RBU-1H24-7	3/4	1260	0.75	24	6884	6589	6507	6379	6122	5933	5748	5415				
RBU-1H24-7	3/4	1351	0.90	28	7382	7106	7037	6947	6708	6491	6318	6058				
Level 2 Performance		Max RPM		L - 924	H - 1477		Max Motor Frame Size - 145T						TS = RPM x 6.283			
RBU-2L24-7	3/4	870	0.75	20	7312	6734	6572	6400	5963	5512						
RBU-2L24-7	3/4	924	0.90	22	7766	7230	7078	6925	6544	6126	5651					
RBU-2H24-7	3/4	1260	0.75	23	6884	6589	6507	6379	6122	5933	5748	5415				
RBU-2H24-7	3/4	1351	0.90	26	7382	7106	7037	6947	6708	6491	6318	6058				
RBU-2H24-10	1	1376	1.00	29	7518	7248	7180	7102	6867	6642	6473	6219	5681			
RBU-2H24-10	1	1477	1.20	32	8070	7818	7755	7692	7505	7286	7092	6856	6410			
Level 3 Performance		Max RPM		L - 1135	H - 1460		Max Motor Frame Size - 145T						TS = RPM x 6.283			
RBU-3L24-10	1	969	0.75	19.7	7598	6936	6763	6582	6207	5736						
RBU-3L24-10	1	1067	1.00	22	8366	7771	7614	7457	7124	6774	6343					
RBU-3L24-10	1	1135	1.20	24	8900	8344	8197	8049	7746	7426	7067	6325				
RBU-3H24-10	1	1244	0.75	21	7121	6720	6613	6498	6270	6044	5818	5416	4384			
RBU-3H24-10	1	1372	1.00	26	7854	7491	7400	7301	7094	6888	6682	6375	5742	4603		
RBU-3H24-10	1	1460	1.20	28	8358	8016	7931	7845	7653	7458	7264	6975	6435	5723	4403	

Minimum CFM required to open dampers
 Aluminum Dampers: 3950
 Steel Dampers: 5220

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

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

*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.

RBU-30 Belt Drive

Model Number	Motor HP	Fan RPM	Max Bhp	*Sones	Volume (CFM) / Static Pressure (In. wg)											
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000
Level 1 Performance		Max RPM L - 695 H - 963			Max Motor Frame Size - 56						TS = RPM x 7.854					
RBU-1L30-3	1/3	454	0.25	10.7	7256											
RBU-1L30-3	1/3	499	0.33	11.7	7975	6266	6266									
RBU-1L30-3	1/3	531	0.40	12.6	8487	6888	6472									
RBU-1H30-3	1/3	572	0.25	11.7	6499											
RBU-1H30-3	1/3	626	0.33	13.2	7113	6094										
RBU-1H30-3	1/3	669	0.40	14.2	7602	6659	6401	6131								
RBU-1L30-5	1/2	571	0.50	13.7	9126	7622	7262	6875								
RBU-1L30-5	1/2	607	0.60	14.8	9701	8268	7951	7593								
RBU-1H30-5	1/2	720	0.50	16.5	8181	7316	7079	6839	6300							
RBU-1H30-5	1/2	764	0.60	17.6	8681	7875	7653	7428	6955	6419						
RBU-1L30-7	3/4	654	0.75	16.4	10452	9097	8803	8507	7831							
RBU-1L30-7	3/4	695	0.90	18.0	11108	9822	9534	9257	8651	7844						
RBU-1H30-7	3/4	824	0.75	19.0	9363	8628	8422	8216	7797	7329	6824					
RBU-1H30-7	3/4	875	0.90	22	9942	9261	9067	8873	8481	8081	7613	6874				
RBU-1H30-10	1	908	1.00	25	10317	9666	9481	9294	8918	8538	8108	7415				
RBU-1H30-10	1	963	1.20	27	10942	10328	10165	9989	9637	9279	8918	8280	7021			
Level 2 Performance		Max RPM L - 964 H - 1213			Max Motor Frame Size - 184T						TS = RPM x 7.854					
RBU-2L30-10	1	720	1.00	19.1	11507	10270	9974	9707	9142	8511						
RBU-2L30-10	1	765	1.20	21	12227	11068	10765	10508	10006	9433	8692					
RBU-2H30-10	1	908	1.00	23	10317	9666	9481	9294	8918	8538	8108	7415				
RBU-2H30-10	1	963	1.20	26	10942	10328	10165	9989	9637	9279	8918	8280	7021			
RBU-2L30-15	1-1/2	824	1.50	23	13170	12102	11820	11543	11077	10591	10054					
RBU-2L30-15	1-1/2	876	1.81	25	14001	13003	12739	12474	12004	11566	11083	10270				
RBU-2H30-15	1-1/2	1039	1.50	29	11806	11236	11094	10938	10612	10284	9951	9418	8408			
RBU-2H30-15	1-1/2	1102	1.80	30	12522	11985	11851	11716	11409	11101	10790	10320	9408	8414		
RBU-2L30-20	2	907	2.00	27	14496	13537	13281	13026	12551	12128	11686	10955				
RBU-2L30-20	2	964	2.41	30	15407	14512	14272	14031	13551	13148	12750	12089				
RBU-2H30-20	2	1143	2.00	31	12988	12470	12341	12211	11923	11627	11328	10875	10030	9095		
RBU-2H30-20	2	1213	2.40	34	13783	13295	13173	13051	12795	12515	12235	11811	11071	10226	9315	
Level 3 Performance		Max RPM L - 1154 H - 1471			Max Motor Frame Size - 184						TS = RPM x 7.854					
RBU-3L30-20	2	862	1.50	29	13255	12275	12006	11737	11181	10523						
RBU-3L30-20	2	949	2.01	29	14592	13722	13477	13232	12740	12233	11639					
RBU-3L30-20	2	1008	2.40	31	15500	14684	14463	14232	13772	13300	12822					
RBU-3H30-20	2	1099	1.50	34	12302	11703	11554	11415	11143	10872	10591	10164	9307	8153	5836	
RBU-3H30-20	2	1209	2.00	36	13533	12989	12853	12717	12466	12220	11973	11589	10912	10090	9046	
RBU-3H30-20	2	1285	2.40	39	14384	13872	13744	13616	13371	13138	12906	12554	11946	11238	10414	7066
RBU-3L30-30	3	1086	3.01	37	16699	15942	15753	15540	15112	14685	14242	13577				
RBU-3L30-30	3	1154	3.61	38	17745	17032	16854	16669	16267	15864	15457	14831				
RBU-3H30-30	3	1384	3.00	45	15492	15017	14898	14779	14542	14323	14107	13784	13228	12660	11965	10175
RBU-3H30-30	3	1471	3.60	50	16466	16019	15907	15795	15572	15355	15152	14848	14335	13804	13225	11816

Minimum CFM required to open dampers
 Aluminum Dampers: 6050
 Steel Dampers: 7130

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

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

*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.

RBU-36 Belt Drive

Model Number	Motor HP	Fan RPM	Max Bhp	*Sones	Volume (CFM) / Static Pressure (in. wg)												
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000	
Level 1 Performance		Max RPM		L - 551	H - 806		Max Motor Frame Size - 145T						TS = RPM x 9.424				
RBU-1L36-5	1/2	357	0.30	10.7	9954												
RBU-1L36-5	1/2	410	0.50	12.8	11432	9148	8431										
RBU-1L36-5	1/2	435	0.60	14.0	12129	10040	9378	8604									
RBU-1H36-5	1/2	458	0.33	13.0	9342												
RBU-1H36-5	1/2	526	0.50	14.9	10729	9149	8603	7986									
RBU-1H36-5	1/2	561	0.60	16.1	11443	10005	9555	9000									
RBU-1L36-7	3/4	468	0.75	15.6	13049	11190	10573	9959									
RBU-1L36-7	3/4	497	0.90	17.3	13857	12181	11600	11019	9696								
RBU-1H36-7	3/4	602	0.75	17.7	12279	10984	10571	10132	9055								
RBU-1H36-7	3/4	639	0.90	19.4	13034	11803	11470	11076	10145	9049							
RBU-1L36-10	1	515	1.00	18.4	14359	12768	12227	11665	10504								
RBU-1L36-10	1	551	1.23	20	15364	13924	13461	12937	11891								
RBU-1H36-10	1	663	1.00	20	13523	12330	12047	11667	10817	9809							
RBU-1H36-10	1	704	1.20	22	14360	13224	12966	12662	11941	11048	10041						
RBU-1H36-15	1-1/2	760	1.50	25	15502	14433	14195	13956	13335	12611	11784						
RBU-1H36-15	1-1/2	806	1.80	28	16440	15419	15194	14969	14454	13829	13081	11825					
Level 2 Performance		Max RPM		L - 693	H - 1014		Max Motor Frame Size - 184T						TS = RPM x 9.424				
RBU-2L36-15	1-1/2	589	1.50	23	16423	15126	14702	14249	13267	12291							
RBU-2L36-15	1-1/2	626	1.80	25	17454	16283	15884	15485	14579	13658	12653						
RBU-2H36-15	1-1/2	760	1.50	25	15502	14433	14195	13956	13335	12611	11784						
RBU-2H36-15	1-1/2	806	1.80	27	16440	15419	15194	14969	14454	13829	13081	11825					
RBU-2L36-20	2	649	2.01	27	18096	16996	16611	16226	15382	14491	13606						
RBU-2L36-20	2	689	2.40	29	19211	18194	17865	17503	16756	15917	15081	13659					
RBU-2H36-20	2	836	2.01	29	17052	16059	15842	15625	15175	14572	13910	12761					
RBU-2H36-20	2	889	2.40	32	18133	17184	16980	16776	16368	15867	15300	14286	12176				
RBU-2L36-30	3	693	2.44	29	19323	18312	17991	17630	16893	16058	15226	13839					
RBU-2H36-30	3	956	3.00	38	19500	18611	18408	18218	17839	17460	16948	16134	14446				
RBU-2H36-30	3	1014	3.60	41	20683	19845	19636	19458	19100	18742	18349	17603	16144	14425			
Level 3 Performance		Max RPM		L - 976	H - 1401		Max Motor Frame Size - 184T						TS = RPM x 9.424				
RBU-3L36-30	3	677	2.01	25	18205	16889	16573	16257	15391	14466							
RBU-3L36-30	3	774	3.00	31	20814	19650	19372	19096	18543	17787	16953	15800					
RBU-3L36-30	3	823	3.61	34	22132	21037	20769	20509	19988	19426	18641	17506					
RBU-3H36-30	3	971	2.00	35	16514	15825	15625	15471	14977	14480	13961	13208	11941	9760			
RBU-3H36-30	3	1108	3.00	42	18844	18240	18089	17938	17613	17180	16747	16073	14975	13923	12474		
RBU-3H36-30	3	1181	3.61	47	20086	19519	19377	19235	18952	18589	18182	17568	16500	15518	14414	9248	
RBU-3L36-50	5	918	5.00	42	24686	23705	23460	23218	22751	22285	21819	20768	19095				
RBU-3L36-50	5	976	6.01	61	26246	25323	25092	24862	24418	23979	23540	22727	21093				
RBU-3H36-50	5	1315	5.01	60	22365	21856	21728	21601	21347	21092	20771	20223	19292	18333	17453	15377	
RBU-3H36-50	5	1401	6.00	66	23827	23350	23230	23111	22872	22633	22394	21893	21036	20140	19259	17598	

Minimum CFM required to open dampers
Aluminum Dampers: 7620
Steel Dampers: 10980

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

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

*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.

RBU-42 Belt Drive

Model Number	Motor HP	Fan RPM	Max Bhp	*Sones	Volume (CFM) / Static Pressure (in. wg)												
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000	
Level 2 Performance		Max RPM L - 718			Max Motor Frame Size - 184T							TS = RPM x 10.995					
RBU-2L42-5	1/2	275	0.33	11.6	12446								Minimum CFM required to open dampers Aluminum Dampers: 11050 Steel Dampers: 13550				
RBU-2L42-5	1/2	316	0.50	12.8	14301												
RBU-2L42-5	1/2	335	0.60	13.4	15161	11409											
RBU-2L42-7	3/4	361	0.75	14.4	16338	13030	11890										
RBU-2L42-7	3/4	383	0.90	15.4	17333	14331	13290	12090						CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.			
RBU-2L42-10	1	397	1.01	16.1	17967	15143	14161	13125									
RBU-2L42-10	1	421	1.21	17.4	19053	16512	15601	14649	12281								
RBU-2L42-15	1-1/2	453	1.50	19.5	20502	18155	17455	16608	14792								
RBU-2L42-15	1-1/2	482	1.81	22	21814	19597	19067	18302	16656	14631							
RBU-2L42-20	2	499	2.01	23	22583	20435	19923	19279	17717	15962	11883						
RBU-2L42-20	2	530	2.41	25	23986	21952	21470	20988	19585	18060	16186	11471					
RBU-2L42-30	3	571	3.01	27	25842	23938	23490	23043	21964	20616	19174	14572					
RBU-2L42-30	3	607	3.62	30	27471	25666	25245	24824	23982	22742	21442	19227	12914				
RBU-2L42-50	5	676	5.00	35	30595	28970	28569	28191	27436	26680	25557	23808	20245	14263			
RBU-2L42-50	5	718	6.00	39	32495	30966	30584	30217	29505	28793	27966	26363	23522	17009	14105		
Level 3 Performance		Max RPM L - 775 H - 1011			Max Motor Frame Size - 215T							TS = RPM x 10.995					
RBU-3L42-30	3	537	2.01	25	22044	20231	19719	19177	17928	16545							
RBU-3L42-30	3	615	3.01	31	25246	23726	23279	22832	21892	20801	19630						
RBU-3L42-30	3	652	3.60	33	26765	25338	24941	24519	23676	22690	21661	19939					
RBU-3H42-30	3	700	2.00	36	19872	18765	18464	18159	17549	16846	16119	14705					
RBU-3H42-30	3	801	3.01	38	22740	21772	21530	21274	20741	20208	19613	18690	16639				
RBU-3H42-30	3	849	3.60	43	24102	23189	22961	22733	22232	21730	21218	20347	18644	16386			
RBU-3L42-50	5	728	5.01	42	29885	28607	28288	27937	27181	26426	25550	24168					
RBU-3L42-50	5	775	6.02	43	31814	30614	30314	30014	29314	28605	27892	26594	24279				
RBU-3H42-50	5	948	5.01	51	26913	26095	25891	25687	25270	24819	24369	23682	22383	20797	18814		
RBU-3H42-50	5	1011	6.01	57	28701	27935	27743	27552	27168	26759	26336	25703	24539	23290	21671		

Minimum CFM required to open dampers
 Aluminum Dampers: 11050
 Steel Dampers: 13550

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

RBU-48 Belt Drive

Model Number	Motor HP	Fan RPM	Max Bhp	*Sones	Volume (CFM) / Static Pressure (in. wg)											
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000
Level 2 Performance		Max RPM L - 594				Max Motor Frame Size - 184T						TS = RPM x 12.566				
RBU-2L48-7	3/4	261	0.50	10.6	16691									Minimum CFM required to open dampers Aluminum Dampers: 12820 Steel Dampers: 16420		
RBU-2L48-7	3/4	298	0.75	11.0	19057	15205	14201									
RBU-2L48-7	3/4	316	0.90	11.8	20208	16653	15648	14610								
RBU-2L48-10	1	328	1.01	12.3	20976	17648	16595	15683								
RBU-2L48-10	1	348	1.20	13.3	22255	19281	18174	17288	14879							
RBU-2L48-15	1-1/2	375	1.51	14.9	23981	21351	20412	19400	17805	14202				CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.		
RBU-2L48-15	1-1/2	399	1.81	16.5	25516	23099	22356	21391	19737	17814	13772					
RBU-2L48-20	2	413	2.01	17.4	26411	24110	23411	22541	20843	19394	15992					
RBU-2L48-20	2	439	2.42	19.3	28074	25969	25311	24643	22889	21500	19740	14613				
RBU-2L48-30	3	473	3.02	22	30248	28373	27763	27153	25710	24183	22918	19952				
RBU-2L48-30	3	502	3.61	24	32103	30368	29828	29253	28062	26527	25227	23375	16326			
RBU-2L48-50	5	559	5.00	28	35749	34190	33801	33319	32286	31193	29815	28028	24571	18001		
RBU-2L48-50	5	594	6.00	30	37987	36250	36154	35782	34810	33838	32687	30758	28240	22667		
Level 3 Performance		Max RPM L - 690 H - 876				Max Motor Frame Size - 215T						TS = RPM x 12.566				
RBU-3L48-30	3	418	2.00	18.3	27016	24137	23291	22402	20842	19062						
RBU-3L48-30	3	479	3.01	22	30959	28549	27839	27128	25577	24207	22920					
RBU-3L48-30	3	509	3.62	24	32898	30682	30014	29346	27934	26500	25297	23058				
RBU-3H48-30	3	531	2.01	23	24276	22530	22071	21612	20590	19474	18247	16235				
RBU-3H48-30	3	607	3.00	27	27751	26236	25846	25444	24642	23757	22790	21224	18317			
RBU-3H48-30	3	646	3.61	30	29534	28111	27755	27379	26625	25871	24977	23591	21001	15778		
RBU-3L48-50	5	567	5.00	31	36647	34693	34156	33557	32358	31069	29758	28121	24571			
RBU-3L48-50	5	603	6.01	36	38974	37137	36678	36130	35003	33849	32616	30904	28111			
RBU-3H48-50	5	721	5.01	36	32962	31688	31369	31050	30381	29705	29029	27856	25736	23395	18311	
RBU-3H48-50	5	766	6.02	40	35020	33820	33520	33220	32604	31968	31332	30335	28418	26310	24002	15910
RBU-3L48-75	7-1/2	650	7.53	43	42012	40307	39881	39455	38409	37363	36270	34555	32102	29068		
RBU-3L48-75	7-1/2	690	9.01	45	44597	42992	42590	42189	41272	40287	39302	37706	35203	32951	29650	
RBU-3H48-75	7-1/2	827	7.51	47	37809	36697	36419	36141	35586	35002	34413	33529	31857	30037	28067	20719
RBU-3H48-75	7-1/2	876	9.01	51	40049	38999	38737	38475	37950	37415	36859	36025	34563	32887	31091	27128

Minimum CFM required to open dampers
 Aluminum Dampers: 12820
 Steel Dampers: 16420

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

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

*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.

RBU-54 Belt Drive

Model Number	Motor HP	Fan RPM	Max Bhp	*Sones	Volume (CFM) / Static Pressure (in. wg)											
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000
Level 2 Performance		Max RPM L - 508				Max Motor Frame Size - 184T						TS = RPM x 14.135				
RBU-2L54-15	1-1/2	291	1.20	13.0	26207									Minimum CFM required to open dampers Aluminum Dampers: 21430 Steel Dampers: 31000		
RBU-2L54-15	1-1/2	312	1.50	13.7	28188	23395	22059									
RBU-2L54-15	1-1/2	333	1.80	15.1	29990	25737	24235	23072								
RBU-2L54-20	2	345	2.00	15.9	31070	27119	25569	24398								
RBU-2L54-20	2	366	2.40	17.4	32962	29339	28042	26679	24563					CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.		
RBU-2L54-30	3	394	3.00	19.7	35483	32175	31245	29908	27691	24624						
RBU-2L54-30	3	419	3.60	22	37735	34675	33800	32808	30417	28568	23989					
RBU-2L54-50	5	467	5.00	27	42058	39408	38623	37838	35942	33850	32191	26374				
RBU-2L54-50	5	496	6.00	30	44670	42213	41495	40756	39278	37122	35390	32782				
RBU-2L54-75	7-1/2	508	6.43	34	45751	43351	42675	41954	40511	38535	36695	34407				
Level 3 Performance		Max RPM L - 609 H - 811				Max Motor Frame Size - 254T						TS = RPM x 14.135				
RBU-3L54-30	3	335	2.00	16.2	30925	26501	25269	23490	16417							
RBU-3L54-30	3	384	3.00	20	35449	31779	30652	29577	26739							
RBU-3L54-30	3	408	3.60	22	37664	34327	33238	32208	29974	25220						
RBU-3H54-30	3	447	2.00	24	28713	26320	25571	24730	22982	21344						
RBU-3H54-30	3	513	3.00	28	32952	31033	30381	29729	28306	26758	25333	23118				
RBU-3H54-30	3	545	3.60	31	35008	33227	32671	32057	30827	29358	27948	25928	21582			
RBU-3L54-50	5	455	5.00	27	42003	39165	38257	37280	35431	33358	29831	22057				
RBU-3L54-50	5	483	6.00	30	44588	41915	41194	40274	38478	36769	34474	25203	20392			
RBU-3H54-50	5	608	5.00	37	39054	37458	37059	36570	35470	34362	33046	31140	28079	23949		
RBU-3H54-50	5	644	6.00	39	41367	39860	39483	39107	38077	37038	35912	34047	31184	28206	19448	
RBU-3L54-75	7-1/2	521	7.50	35	48096	45618	44998	44280	42574	40958	39373	35954	24966			
RBU-3L54-75	7-1/2	553	9.00	40	51050	48715	48131	47548	46003	44418	42926	40287	28579	24473		
RBU-3H54-75	7-1/2	693	7.50	43	44514	43114	42764	42414	41584	40618	39653	38006	35223	32553	29766	
RBU-3H54-75	7-1/2	740	9.00	47	47533	46222	45894	45566	44911	44007	43103	41721	39017	36528	33981	22199
RBU-3L54-100	10	573	10.0	44	52897	50643	50080	49516	48124	46573	45115	42937	34455	26817		
RBU-3L54-100	10	609	12.0	50	56220	54100	53570	53039	51903	50444	49003	46970	42530	30918	27190	
RBU-3H54-100	10	766	10.0	50	49204	47937	47620	47303	46670	45866	44992	43682	41135	38664	36256	29878
RBU-3H54-100	10	811	12.0	54	52094	50898	50598	50299	49701	49059	48234	46997	44746	42298	40045	35352

Minimum CFM required to open dampers
 Aluminum Dampers: 21430
 Steel Dampers: 31000

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

RBU-60 Belt Drive

Model Number	Motor HP	Fan RPM	Max Bhp	*Sones	Volume (CFM) / Static Pressure (in. wg)												
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000	
Level 3 Performance		Max RPM			L - 504	H - 673		Max Motor Frame Size - 256T					TS = RPM x 15.691				
RBU-3L60-30	3	277	2.00	17.0	35353	29021	27128							Minimum CFM required to open dampers Aluminum Dampers: 24820 Steel Dampers: 45000			
RBU-3L60-30	3	318	3.00	19.8	40586	35413	33765	32116									
RBU-3L60-30	3	337	3.60	20	43011	38296	36739	35184	32072								
RBU-3H60-30	3	369	2.00	22	32156	28854	27906	26920	24874								
RBU-3H60-30	3	422	3.00	25	36775	33999	33187	32374	30655	28874	26945			CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.			
RBU-3H60-30	3	448	3.60	26	39041	36483	35718	34952	33369	31744	30018	27055					
RBU-3L60-50	5	376	5.00	22	47989	44104	42699	41303	38515	35633							
RBU-3L60-50	5	400	6.00	24	51052	47615	46295	44975	42355	39733							
RBU-3H60-50	5	499	5.00	30	43486	41290	40611	39923	38549	37113	35654	33347	28714				
RBU-3H60-50	5	532	6.00	32	46361	44302	43737	43092	41803	40503	39134	37055	33147				
RBU-3L60-75	7-1/2	431	7.50	27	55008	51974	50869	49644	47204	44772	42338						
RBU-3L60-75	7-1/2	458	9.00	31	58454	55599	54801	53648	51344	49055	46766						
RBU-3H60-75	7-1/2	571	7.50	36	49760	47841	47362	46799	45598	44397	43166	41253	37914	33961			
RBU-3H60-75	7-1/2	607	9.00	40	52897	51093	50641	50190	49060	47930	46801	45024	41976	38624			
RBU-3L60-100	10	474	10.0	33	60496	57738	57048	55997	53769	51555	49343	46024					
RBU-3L60-100	10	504	12.0	43	64325	61731	61082	60362	58266	56176	54096	50976					
RBU-3H60-100	10	629	10.0	43	54815	53073	52637	52202	51160	50070	48980	47297	44403	41312	37663		
RBU-3H60-100	10	673	12.0	48	58475	56842	56434	56026	55141	54119	53097	51563	48865	46076	43082	35057	

Minimum CFM required to open dampers
 Aluminum Dampers: 24820
 Steel Dampers: 45000

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

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

*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.

RBUMO-24 Belt Drive

Model Number	Motor HP	Fan RPM	Max Bhp	*Sones	Volume (CFM) / Static Pressure (in. wg)											
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000
Level 1 Performance		Max RPM		L - 809	H - 1259		Max Motor Frame Size - 56						TS = RPM x 6.283			
RBUMO-1L24-3	1/3	630	0.30	14.3	5093	4143							Minimum CFM required to open dampers Aluminum Dampers: 3950 Steel Dampers: 5220			
RBUMO-1L24-3	1/3	650	0.33	14.6	5255	4339	4051									
RBUMO-1L24-3	1/3	671	0.36	15.0	5425	4538	4278	3984								
RBUMO-1H24-3	1/3	896	0.30	15.0	4654	4113										
RBUMO-1H24-3	1/3	921	0.33	16.0	4784	4259	4107									
RBUMO-1H24-3	1/3	949	0.36	16.9	4929	4420	4285	4113					CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.			
RBUMO-1L24-5	1/2	747	0.50	17.1	6040	5248	5044	4814								
RBUMO-1L24-5	1/2	771	0.55	17.7	6234	5468	5270	5068	4558							
RBUMO-1H24-5	1/2	1058	0.50	18.8	5495	5042	4925	4808	4502	4205						
RBUMO-1H24-5	1/2	1097	0.55	19.5	5698	5262	5149	5036	4757	4468	4174					
RBUMO-1L24-7	3/4	809	0.64	19.0	6541	5823	5626	5437	4981	4485						
RBUMO-1H24-7	3/4	1215	0.75	23	6311	5921	5818	5716	5512	5244	4983	4581				
RBUMO-1H24-7	3/4	1259	0.83	24	6540	6164	6065	5967	5770	5530	5273	4900				
Level 2 Performance		Max RPM		L - 883	H - 1377		Max Motor Frame Size - 145T						TS = RPM x 6.283			
RBUMO-2L24-7	3/4	855	0.75	21	6913	6251	6050	5871	5478	5016						
RBUMO-2L24-7	3/4	883	0.83	22	7139	6509	6308	6133	5776	5332						
RBUMO-2H24-7	3/4	1215	0.75	22	6311	5921	5818	5716	5512	5244	4983	4581				
RBUMO-2H24-7	3/4	1259	0.83	23	6540	6164	6065	5967	5770	5530	5273	4900				
RBUMO-2H24-10	1	1328	1.00	27	6898	6542	6451	6357	6170	5971	5725	5368	4723			
RBUMO-2H24-10	1	1377	1.10	29	7153	6809	6722	6632	6452	6272	6043	5694	5096			
Level 3 Performance		Max RPM		L - 1089	H - 1370		Max Motor Frame Size - 145T						TS = RPM x 6.283			
RBUMO-3L24-10	1	959	0.75	19.4	6892	6228	6069	5870	5421	4893						
RBUMO-3L24-10	1	1055	1.00	22	7582	6968	6830	6686	6324	5893	5409					
RBUMO-3L24-10	1	1089	1.10	23	7826	7227	7094	6960	6619	6223	5777					
RBUMO-3H24-10	1	1210	0.75	21	6326	5913	5800	5687	5458	5216	4952	4496				
RBUMO-3H24-10	1	1326	1.00	24	6933	6560	6459	6357	6151	5938	5717	5355	4595			
RBUMO-3H24-10	1	1370	1.10	26	7163	6802	6707	6608	6409	6207	5994	5652	4968			

Minimum CFM required to open dampers
 Aluminum Dampers: 3950
 Steel Dampers: 5220

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

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

*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.

RBUMO-30 Belt Drive

Model Number	Motor HP	Fan RPM	Max Bhp	*Sones	Volume (CFM) / Static Pressure (in. wg)												
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000	
Level 1 Performance		Max RPM			L - 696	H - 929	Max Motor Frame Size - 56						TS = RPM x 7.854				
RBUMO-1L30-3	1/3	481	0.30	11.3	6936								Minimum CFM required to open dampers Aluminum Dampers: 6050 Steel Dampers: 7130				
RBUMO-1L30-3	1/3	496	0.33	11.6	7153												
RBUMO-1L30-3	1/3	512	0.36	12.1	7383												
RBUMO-1H30-3	1/3	603	0.30	12.6	6634												
RBUMO-1H30-3	1/3	623	0.34	13.2	6854												
RBUMO-1H30-3	1/3	640	0.36	13.7	7041								CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.				
RBUMO-1L30-5	1/2	570	0.50	13.7	8220	6787	6349										
RBUMO-1L30-5	1/2	588	0.55	14.2	8480	7097	6696	6238									
RBUMO-1H30-5	1/2	719	0.50	16.8	7910	6915	6669	6422									
RBUMO-1H30-5	1/2	735	0.55	17.5	8086	7113	6871	6630									
RBUMO-1L30-7	3/4	652	0.75	17.2	9403	8180	7842	7486									
RBUMO-1L30-7	3/4	673	0.82	17.9	9705	8529	8202	7875	7064								
RBUMO-1H30-7	3/4	814	0.75	21	8956	8082	7857	7639	7194	6644							
RBUMO-1H30-7	3/4	844	0.82	23	9286	8445	8228	8015	7594	7088							
RBUMO-1L30-10	1	696	0.91	18.0	10038	8806	8593	8276	7542								
RBUMO-1H30-10	1	897	1.00	25	9869	9081	8877	8672	8276	7857	7358						
RBUMO-1H30-10	1	929	1.10	26	10221	9462	9265	9068	8683	8300	7830						
Level 2 Performance		Max RPM			L - 933	H - 1167	Max Motor Frame Size - 184T						TS = RPM x 7.854				
RBUMO-2L30-10	1	718	1.00	19.0	10354	9263	8962	8656	7973								
RBUMO-2L30-10	1	741	1.10	20	10686	9634	9346	9049	8417	7594							
RBUMO-2H30-10	1	897	1.00	24	9869	9081	8877	8672	8276	7857	7358						
RBUMO-2H30-10	1	929	1.10	25	10221	9462	9265	9068	8683	8300	7830						
RBUMO-2L30-15	1-1/2	822	1.50	23	11854	10925	10667	10409	9873	9287	8593						
RBUMO-2L30-15	1-1/2	848	1.65	24	12229	11335	11085	10835	10319	9785	9149						
RBUMO-2H30-15	1-1/2	1029	1.50	29	11321	10642	10464	10286	9931	9585	9240	8613					
RBUMO-2H30-15	1-1/2	1066	1.65	30	11728	11075	10904	10732	10388	10052	9719	9153					
RBUMO-2L30-20	2	904	2.00	27	13037	12211	11977	11743	11266	10779	10241	9206					
RBUMO-2L30-20	2	933	2.20	28	13455	12662	12435	12208	11751	11279	10796	9930					
RBUMO-2H30-20	2	1137	2.00	32	12509	11897	11741	11580	11257	10937	10624	10156	9183				
RBUMO-2H30-20	2	1167	2.20	32	12839	12243	12092	11935	11621	11307	11002	10546	9632				
Level 3 Performance		Max RPM			L - 1109	H - 1420	Max Motor Frame Size - 184T						TS = RPM x 7.854				
RBUMO-3L30-20	2	853	1.50	30	12059	11008	10740	10485	9979	9171							
RBUMO-3L30-20	2	939	2.01	29	13275	12324	12081	11837	11374	10897	10141						
RBUMO-3L30-20	2	969	2.20	30	13699	12779	12543	12307	11853	11408	10750	9296					
RBUMO-3H30-20	2	1092	1.50	35	11707	11118	10955	10785	10444	10096	9745	9194	8246	6997			
RBUMO-3H30-20	2	1202	2.00	37	12886	12351	12218	12068	11758	11449	11132	10654	9809	8943	7779		
RBUMO-3H30-20	2	1240	2.20	39	13293	12775	12646	12507	12207	11907	11603	11139	10331	9496	8523		
RBUMO-3L30-30	3	1074	3.00	35	15183	14357	14145	13933	13507	13103	12701	11830					
RBUMO-3L30-30	3	1109	3.30	36	15678	14878	14675	14469	14056	13569	13270	12533					
RBUMO-3H30-30	3	1376	3.01	47	14751	14284	14168	14051	13796	13526	13255	12844	12148	11409	10657		
RBUMO-3H30-30	3	1420	3.30	49	15223	14771	14657	14544	14306	14044	13782	13387	12712	12008	11284		

Minimum CFM required to open dampers
 Aluminum Dampers: 6050
 Steel Dampers: 7130

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

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

*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.

RBUMO-36 Belt Drive

Model Number	Motor HP	Fan RPM	Fan Bhp	*Sones	Volume (CFM) / Static Pressure (in. wg)											
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000
Level 1 Performance		Max RPM		L - 551	H - 784		Max Motor Frame Size - 145T					TS = RPM x 9.424				
RBUMO-1L36-5	1/2	355	0.33	10.7	9535								Minimum CFM required to open dampers Aluminum Dampers: 7620 Steel Dampers: 10980			
RBUMO-1L36-5	1/2	408	0.50	12.8	10958	8903	8176									
RBUMO-1L36-5	1/2	421	0.55	13.3	11308	9343	8665	7961								
RBUMO-1H36-5	1/2	418	0.33	13.0	9075											
RBUMO-1H36-5	1/2	528	0.50	14.9	10439	8778	8321	7853								
RBUMO-1H36-5	1/2	546	0.55	15.8	10795	9198	8762	8309					CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.			
RBUMO-1L36-7	3/4	467	0.75	15.6	12543	10864	10322	9708								
RBUMO-1L36-7	3/4	482	0.82	16.4	12946	11350	10825	10261	9031							
RBUMO-1H36-7	3/4	603	0.75	17.8	11922	10502	10111	9717	8897							
RBUMO-1H36-7	3/4	623	0.82	18.8	12318	10943	10575	10193	9406	8277						
RBUMO-1L36-10	1	514	1.00	18.3	13806	12331	11881	11389	10264							
RBUMO-1L36-10	1	530	1.10	19.3	14234	12800	12402	11925	10866							
RBUMO-1H36-10	1	664	1.00	21	13128	11839	11514	11156	10430	9646						
RBUMO-1H36-10	1	685	1.10	22	13543	12294	11981	11642	10945	10224	9153					
RBUMO-1L36-15	1-1/2	551	1.24	20	14800	13414	13080	12620	11645	10569						
RBUMO-1H36-15	1-1/2	760	1.50	25	15026	13900	13618	13336	12725	12094	11444	10035				
RBUMO-1H36-15	1-1/2	784	1.65	27	15501	14410	14136	13863	13283	12677	12048	10846				
Level 2 Performance		Max RPM		L - 693	H - 988		Max Motor Frame Size - 184T					TS = RPM x 9.424				
RBUMO-2L36-15	1-1/2	588	1.50	23	15793	14484	14178	13826	12965	11978	10970					
RBUMO-2L36-15	1-1/2	607	1.65	24	16304	15029	14733	14437	13603	12686	11709					
RBUMO-2H36-15	1-1/2	760	1.50	25	15026	13900	13618	13336	12725	12094	11444	10035				
RBUMO-2H36-15	1-1/2	784	1.65	26	15501	14410	14136	13863	13283	12677	12048	10846				
RBUMO-2L36-20	2	647	2.00	26	17378	16171	15893	15615	14926	14143	13229					
RBUMO-2L36-20	2	668	2.20	28	17942	16767	16498	16229	15610	14852	14010	12679				
RBUMO-2H36-20	2	838	2.00	29	16569	15548	15292	15036	14521	13954	13382	12498				
RBUMO-2H36-20	2	868	2.20	31	17162	16177	15930	15683	15188	14653	14106	13256				
RBUMO-2L36-30	3	693	2.46	29	18614	17474	17215	16955	16418	15687	14926	13643				
RBUMO-2H36-30	3	958	3.00	38	18941	18049	17826	17602	17154	16706	16217	15473	14185			
RBUMO-2H36-30	3	988	3.30	39	19534	18669	18453	18236	17802	17368	16908	16187	14947	13188		
Level 3 Performance		Max RPM		L - 943	H - 1343		Max Motor Frame Size - 184T					TS = RPM x 9.424				
RBUMO-3L36-30	3	673	2.00	25	17382	16106	15785	15464	14730	13897	12837					
RBUMO-3L36-30	3	770	3.00	31	19887	18774	18494	18213	17625	17013	16336	15016				
RBUMO-3L36-30	3	795	3.30	32	20533	19455	19184	18912	18369	17782	17126	15947				
RBUMO-3H36-30	3	959	2.00	34	16023	15406	15251	15079	14580	14083	13597	12850	11447	9259		
RBUMO-3H36-30	3	1095	3.00	41	18296	17755	17620	17484	17179	16742	16305	15662	14568	13377	11856	
RBUMO-3H36-30	3	1131	3.30	44	18897	18374	18243	18112	17850	17434	17011	16384	15349	14222	12896	
RBUMO-3L36-50	5	913	5.00	42	23580	22642	22407	22172	21699	21226	20753	19904	18230			
RBUMO-3L36-50	5	943	5.50	49	24355	23447	23219	22992	22534	22076	21618	20835	19334			
RBUMO-3H36-50	5	1299	5.00	57	21704	21248	21134	21020	20793	20565	20243	19690	18779	17881	16919	14710
RBUMO-3H36-50	5	1343	5.51	61	22439	21999	21888	21778	21558	21337	21076	20541	19655	18786	17884	15849

Minimum CFM required to open dampers
 Aluminum Dampers: 7620
 Steel Dampers: 10980

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

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

*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.

RBUMO-42 Belt Drive

Model Number	Motor HP	Fan RPM	Max Bhp	*Sones	Volume (CFM) / Static Pressure (in. wg)											
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000
Level 2 Performance		Max RPM L - 701				Max Motor Frame Size - 184T						TS = RPM x 10.995				
RBUMO-2L42-7	3/4	337	0.60	13.5	14246								Minimum CFM required to open dampers Aluminum Dampers: 11050 Steel Dampers: 13550			
RBUMO-2L42-7	3/4	362	0.75	14.4	15303	12390	11490									
RBUMO-2L42-7	3/4	374	0.82	15.0	15810	13024	12164	11242								
RBUMO-2L42-10	1	398	1.01	16.2	16825	14273	13487	12668								
RBUMO-2L42-10	1	411	1.10	16.9	17374	14940	14185	13398	11671							
RBUMO-2L42-15	1-1/2	456	1.50	19.7	19277	17180	16524	15483	14426	12825			CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.			
RBUMO-2L42-15	1-1/2	470	1.65	21	19869	17859	17237	16577	15215	13713	11983					
RBUMO-2L42-20	2	501	2.00	23	21179	19346	18778	18176	16927	15626	14143	11546				
RBUMO-2L42-20	2	517	2.20	24	21856	20107	19557	18990	17790	16534	15156	12776				
RBUMO-2L42-30	3	574	3.01	28	24265	22786	22290	21794	20758	19677	18543	16692		12952		
RBUMO-2L42-30	3	592	3.30	29	25026	23606	23142	22661	21676	20628	19545	17816	14385			
RBUMO-2L42-50	5	679	5.00	35	28705	27466	27157	26785	25947	25101	24187	22795	20289	17341		
RBUMO-2L42-50	5	701	5.50	38	29635	28435	28136	27814	27002	26190	25321	23993	21646	18927	15694	
Level 3 Performance		Max RPM L - 750 H - 960				Max Motor Frame Size - 215T						TS = RPM x 10.995				
RBUMO-3L42-30	3	535	2.00	25	21165	19193	18692	18160	17045	15706	14134					
RBUMO-3L42-30	3	613	3.01	31	24251	22536	22100	21665	20750	19821	18665	16712				
RBUMO-3L42-30	3	633	3.30	32	25042	23383	22961	22539	21666	20767	19719	17918				
RBUMO-3H42-30	3	687	2.00	36	19035	17703	17374	17044	16275	15490	14808	13511	10811			
RBUMO-3H42-30	3	786	3.00	38	21779	20610	20322	20034	19458	18786	18084	17153	15279	12893	11034	
RBUMO-3H42-30	3	803	3.30	39	22250	21105	20823	20541	19978	19343	18655	17715	16029	13676	11721	
RBUMO-3L42-50	5	728	5.02	42	28800	27364	26999	26632	25899	25145	24363	23103	20515			
RBUMO-3L42-50	5	750	5.50	42	29671	28277	27924	27568	26856	26137	25379	24236	21824			
RBUMO-3H42-50	5	920	5.00	50	25492	24492	24242	23996	23504	23012	22499	21599	20217	18888	16801	13243
RBUMO-3H42-50	5	960	5.50	53	26600	25642	25403	25165	24693	24222	23750	22921	21530	20309	18595	14836

Minimum CFM required to open dampers
Aluminum Dampers: 11050
Steel Dampers: 13550

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

RBUMO-48 Belt Drive

Model Number	Motor HP	Fan RPM	Max Bhp	*Sones	Volume (CFM) / Static Pressure (in. wg)											
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000
Level 2 Performance		Max RPM L - 587				Max Motor Frame Size - 184T						TS = RPM x 12.566				
RBUMO-2L48-7	3/4	266	0.50	9.8	15752								Minimum CFM required to open dampers Aluminum Dampers: 12820 Steel Dampers: 16420			
RBUMO-2L48-7	3/4	303	0.75	11.2	17943	14098	12903									
RBUMO-2L48-7	3/4	313	0.82	11.6	18535	14850	13780									
RBUMO-2L48-10	1	333	1.00	12.5	19719	16329	15324	14231								
RBUMO-2L48-10	1	344	1.10	13.1	20371	17129	16157	15184								
RBUMO-2L48-15	1-1/2	381	1.50	15.3	22562	19765	18889	18012	16118				CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.			
RBUMO-2L48-15	1-1/2	394	1.65	16.1	23332	20658	19828	18980	17275	14871						
RBUMO-2L48-20	2	420	2.01	17.9	24871	22420	21678	20883	19291	17482						
RBUMO-2L48-20	2	433	2.20	18.8	25641	23293	22583	21821	20277	18649	16456					
RBUMO-2L48-30	3	480	3.00	22	28425	26407	25767	25126	23753	22360	20933	17911				
RBUMO-2L48-30	3	496	3.30	23	29372	27456	26836	26216	24910	23563	22213	19730				
RBUMO-2L48-50	5	569	5.00	28	33695	32116	31640	31100	30019	28887	27713	25949	22421			
RBUMO-2L48-50	5	587	5.50	29	34761	33231	32809	32285	31238	30166	29029	27319	24091			
Level 3 Performance		Max RPM L - 676 H - 842				Max Motor Frame Size - 215T						TS = RPM x 12.566				
RBUMO-3L48-30	3	422	2.01	18.5	25054	22304	21434	20546	18884	17025	13113					
RBUMO-3L48-30	3	482	3.00	22	28617	26357	25633	24888	23334	21885	20312	15570				
RBUMO-3L48-30	3	498	3.30	23	29566	27421	26720	26018	24514	23085	21635	16973				
RBUMO-3H48-30	3	525	2.00	22	23199	21320	20900	20480	19347	18048	16642	13915				
RBUMO-3H48-30	3	601	3.04	26	26557	24861	24495	24128	23395	22396	21327	19515	15600	11024		
RBUMO-3H48-30	3	620	3.30	28	27396	25743	25383	25028	24317	23423	22429	20699	17288	12076		
RBUMO-3L48-50	5	572	5.02	32	33960	32189	31664	31054	29829	28520	27243	25412	19334	15509		
RBUMO-3L48-50	5	590	5.50	35	35029	33312	32850	32258	31076	29823	28554	26779	23496	17193		
RBUMO-3H48-50	5	711	5.01	34	31418	29976	29615	29287	28668	28048	27359	26060	23597	20882	14947	
RBUMO-3H48-50	5	735	5.50	36	32478	31083	30735	30399	29800	29200	28601	27371	25071	22525	19010	
RBUMO-3L48-75	7-1/2	655	7.53	38	38888	37341	36955	36555	35490	34425	33294	31588	28919	25871	19627	
RBUMO-3L48-75	7-1/2	676	8.25	40	40135	38636	38262	37887	36897	35865	34795	33133	30523	27663	21517	
RBUMO-3H48-75	7-1/2	815	7.51	44	36013	34755	34441	34126	33540	32999	32459	31648	29762	27618	25325	16940
RBUMO-3H48-75	7-1/2	842	8.25	47	37206	35989	35684	35380	34792	34269	33745	32960	31240	29257	27086	20829

Minimum CFM required to open dampers
Aluminum Dampers: 12820
Steel Dampers: 16420

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

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

*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.

RBUMO-54 Belt Drive

Model Number	Motor HP	Fan RPM	Max Bhp	*Sones	Volume (CFM) / Static Pressure (in. wg)											
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000
Level 2 Performance		Max RPM			H - 585		Max Motor Frame Size - 184T						TS = RPM x 14.135			
RBUMO-2H54-15	1-1/2	353	1.20	15.0	23475											
RBUMO-2H54-15	1-1/2	381	1.50	16.7	25338	21895										
RBUMO-2H54-15	1-1/2	394	1.65	17.5	26202	22957	21823									
RBUMO-2H54-20	2	418	2.00	19.0	27798	24780	23823	22754								
RBUMO-2H54-20	2	433	2.20	20	28796	25888	25055	24023	22009							
RBUMO-2H54-30	3	480	3.02	24	31921	29319	28641	27910	26047	24246	21958					
RBUMO-2H54-30	3	495	3.30	25	32919	30402	29745	29088	27319	25556	23564					
RBUMO-2H54-50	5	567	5.00	32	37708	35540	34967	34393	33246	31685	30125	27777				
RBUMO-2H54-50	5	585	5.50	34	38905	36804	36257	35700	34588	33184	31655	29443				
Level 3 Performance		Max RPM			L - 591 H - 776		Max Motor Frame Size - 254T						TS = RPM x 14.135			
RBUMO-3L54-30	3	337	2.01	16.4	29468	24520	23028	21496								
RBUMO-3L54-30	3	384	3.02	19.6	33578	29345	28168	26918	24231	21357						
RBUMO-3L54-30	3	396	3.30	21	34627	30535	29410	28268	25606	23170						
RBUMO-3H54-30	3	440	2.00	23	27228	24668	23927	23154	21567							
RBUMO-3H54-30	3	504	3.01	27	31189	29064	28417	27770	26435	25080	23483					
RBUMO-3H54-30	3	521	3.30	29	32241	30217	29591	28964	27687	26375	24922					
RBUMO-3L54-50	5	455	5.03	26	39787	36279	35347	34389	32388	30061	27897					
RBUMO-3L54-50	5	469	5.50	27	41011	37622	36717	35809	33881	31691	29526	25954				
RBUMO-3H54-50	5	599	5.00	35	37068	35322	34885	34352	33263	32159	31019	29242				
RBUMO-3H54-50	5	616	5.50	37	38120	36422	35997	35510	34451	33391	32282	30619	27231			
RBUMO-3L54-75	7-1/2	520	7.51	32	45470	42462	41645	40829	39160	37421	35436	32506				
RBUMO-3L54-75	7-1/2	537	8.25	35	46957	44060	43270	42479	40888	39204	37380	34464				
RBUMO-3H54-75	7-1/2	686	7.53	42	42452	40927	40546	40165	39280	38329	37378	35892	33294			
RBUMO-3H54-75	7-1/2	705	8.25	43	43628	42144	41773	41402	40576	39650	38725	37294	34868	31925		
RBUMO-3L54-100	10	573	10.1	42	50105	47407	46684	45943	44461	42926	41348	38651	34316			
RBUMO-3L54-100	10	591	11.0	46	51679	49064	48379	47661	46225	44762	43232	40723	36435			
RBUMO-3H54-100	10	753	10.1	47	46598	45209	44862	44514	43820	42960	42093	40792	38524	36056	33219	
RBUMO-3H54-100	10	776	11.0	50	48021	46673	46336	45999	45325	44533	43692	42431	40246	37975	35307	

Minimum CFM required to open dampers
Aluminum Dampers: 21430
Steel Dampers: 31000

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

RBUMO-60 Belt Drive

Model Number	Motor HP	Fan RPM	Max Bhp	*Sones	Volume (CFM) / Static Pressure (in. wg)												
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000	
Level 3 Performance		Max RPM			L - 543	H - 650		Max Motor Frame Size - 256T					TS = RPM x 15.691				
RBUMO-3L60-30	3	279	2.00	17.1	34965	27787	25597						Minimum CFM required to open dampers Aluminum Dampers: 24820 Steel Dampers: 45000				
RBUMO-3L60-30	3	320	3.00	20	40103	33933	32370	30461									
RBUMO-3L60-30	3	330	3.30	21	41356	35368	33892	32118	28155								
RBUMO-3H60-30	3	368	2.00	22	31237	27776	26765	25742									
RBUMO-3H60-30	3	422	3.00	25	35820	32945	32078	31205	29422	27426	25134		CFM values shown in black are the most efficient selections. Values shown in gray are not recommended.				
RBUMO-3H60-30	3	436	3.30	26	37009	34264	33425	32586	30863	29040	26899						
RBUMO-3L60-50	5	379	5.00	25	47497	42409	40974	39689	36749	33354							
RBUMO-3L60-50	5	391	5.50	26	49001	44137	42672	41427	38716	35560							
RBUMO-3H60-50	5	501	5.00	31	42526	40236	39578	38848	37387	35888	34385	31738	26502				
RBUMO-3H60-50	5	516	5.50	32	43799	41575	40979	40270	38851	37406	35947	33493	28675				
RBUMO-3L60-75	7-1/2	434	7.50	31	54390	50243	48894	47546	45300	42772	39958						
RBUMO-3L60-75	7-1/2	448	8.25	32	56144	52206	50900	49593	47332	45046	42319						
RBUMO-3H60-75	7-1/2	573	7.50	37	48638	46635	46134	45611	44334	43057	41755	39785	35986	31498	24879		
RBUMO-3H60-75	7-1/2	590	8.25	39	50081	48136	47650	47163	45948	44708	43455	41541	37996	33829	28654		
RBUMO-3L60-100	10	477	10.0	37	59779	56150	55014	53787	51488	49445	47112	43209					
RBUMO-3L60-100	10	493	11.0	40	61784	58273	57265	56077	53754	51778	49706	45990					
RBUMO-3H60-100	10	630	10.0	43	53476	51655	51199	50744	49715	48553	47391	45614	42597	38911	34837		
RBUMO-3H60-100	10	650	11.0	46	55174	53408	52967	52526	51583	50458	49332	47622	44727	41352	37534	26609	
RBUMO-3L60-150	15	543	14.8	53	68051	64863	64066	63144	60988	58942	57148	54250	48466	40853	34458	20003	

Minimum CFM required to open dampers
Aluminum Dampers: 24820
Steel Dampers: 45000

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

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

*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.

Specifications

BELT DRIVE

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

Propellers shall be constructed with fabricated steel, fabricated aluminum or cast aluminum blades and hubs. Propellers shall be securely attached to fan shafts. All propellers shall be statically and dynamically balanced. Motors shall be heavy-duty type, matched to the fan load and furnished at the specified voltage, phase and enclosure. Ground and polished steel fan shafts shall be mounted in ball bearing pillow blocks. Bearings shall be selected for a minimum L_{10} life in excess of 100,000 hours (L_{50} average life of 500,000 hours) at maximum cataloged operating speeds. Drives shall be sized for a minimum of 150% of driven horsepower. Pulleys shall be of the fully-machined cast iron type, keyed and securely attached to the wheel and motor shafts. Motor sheaves shall be adjustable for final system balancing (Sizes 42 and larger have fixed drives). Drive frame assemblies shall be galvanized steel or painted steel. Drive frames shall have formed channels and fan panels shall have a deep formed inlet venturi. Windbands shall be constructed of heavy-gauge galvanized steel with reinforced edges and bolted seams. Curb caps shall be constructed of galvanized steel in sizes 20-48 (sizes 54 and 60 constructed of painted steel). The axial belt drive upblast propeller roof fans shall bear the AMCA Certified Rating Seal for FEI, Sound and Air Performance.

For RBUMO models, fans shall meet the following additional requirements: Motors shall be mounted out of the airstream. Motor covers shall be vented for motor cooling.

For high temperature applications, insert the appropriate option shown below.

HIGH TEMPERATURE OPTION

This construction meets specifications for IRI requirements of 500°F (260°C) air for a minimum of 4 hours and the SBCCI "Standard Fire Prevention Code" requirements of 1000°F (538°C) for a minimum of 15 minutes in emergency smoke removal applications.

In addition, this construction exceeds British Standards 7346 Class B 482°F (250°C for 2 hours), Class C 572°F (300°C for 30 minutes), and Class D 572°F (300°C for 1 hour) temperature requirements. Temperature ratings tested in accordance to UL smoke control systems.

HIGH TEMPERATURE OPTION - UL LISTED

This construction meets specifications for UL Listed "Power Ventilators for Smoke Control Systems". This includes the IRI requirements of 500°F (260°C) for a minimum of 4 hours, the SBCCI "Standard Fire Prevention Code" requirements of 1000°F (538°C) for a minimum of 15 minutes, and the Snow Load Test for butterfly dampers in UL 793. In addition, this construction exceeds British Standards 7346 Class B 482°F (250°C for 2 hours), Class C 572°F (300°C for 30 minutes), and Class D 572°F (300°C for 1 hour) temperature requirements.

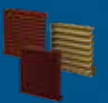
Fans shall be Model RBU/RBUMO as manufactured by Greenheck Fan Corporation, in Schofield, Wisconsin.

DIRECT DRIVE

Direct-driven, axial type upblast propeller roof exhaust fans shall be provided as follows:

Propeller construction shall be cast aluminum airfoil design. A tapered bushing shall lock the propeller to the motor shaft. Propellers shall be statically and dynamically balanced for vibration-free operation. Motors shall be heavy-duty type, matched to the fan load and furnished at the specified voltage, phase and enclosure. Motor, drive frame and fan panel/curb cap assemblies shall be galvanized steel or painted steel. Drive frames shall have formed channels and fan panel/curb cap shall have a deep formed inlet venturi. Windbands shall be constructed of heavy-gauge galvanized steel with reinforced edges and bolted seams. The axial direct drive upblast propeller roof fans shall bear the AMCA Certified Rating Seal for FEI, Sound and Air Performance.

Fans shall be Model RDU as manufactured by Greenheck Fan Corporation, in Schofield, Wisconsin.



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 within the product area tabs and in the Library under Warranties.

