

# Propeller Upblast Roof Fans Models RBU, RBUMO, RDU and RGU Direct Drive, Belt Drive and Gravity



BUILDING VALUE IN AIR.

 **GREENHECK**  
Building Value in Air.

May  
2007

## RBU, RBUMO, RDU and RGU Propeller Upblast Roof Fans

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 include both belt and direct drive fans with steel or aluminum blades. Drive frames and panels are constructed to match the level of duty and motor size.

Models RBU and RBUMO are belt drive fans that offer the ability to adjust fan speed for system balancing if necessary. These models also offer flexibility in speeds and motor selections. Model RBU has the motor in the airstream. Model RBUMO has the motor out of the airstream, which allows for high temperature air to be exhausted.

RDU 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.

- Wide range of construction and performance capabilities offered, the most complete upblast propeller fan line available.
- Regardless of fan size, performance, or duty level, all Greenheck 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 RBU, RBUMO and RDU models are tested in our AMCA Accredited Laboratory, and all are licensed to bear the AMCA certified rating seal for sound and air performance.



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.

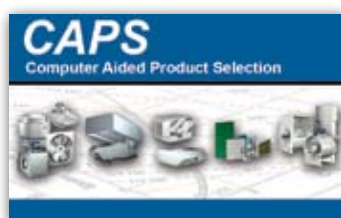


RDU, RBU, RBUMO models are Listed for electrical (UL/cUL 705) File No. E40001



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

## Leading Edge Technical Support



When product and IOM (Installation, Operation and Maintenance Manual) information is needed, our products are supported by the industry's best product literature, electronic media, and Computer Aided Product Selection (CAPS) program. You'll also find this information on our website at [www.greenheck.com](http://www.greenheck.com)

Our national and international representative organization provide personal service and expertise. To locate your nearest Greenheck representative, call 715-359-6171 or visit our website at [www.greenheck.com](http://www.greenheck.com)



**Model RBU**



**Model RBUMO**



**Model RDU**

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## BELT DRIVE FANS

### Model RBU

Sizes 20-60

Capacities to 64,000 cfm and 1.0 in. wg

- Model Number Code ..... 8
- RBU Performance ..... 9

## BELT DRIVE FANS - Motor out of airstream

### Model RBUMO

Sizes 20-60

Capacities to 62,000 cfm and 1.0 in. wg

- Model Number Code ..... 8
- RBUMO Performance ..... 14

## DIRECT DRIVE FANS

### Model RDU

Sizes 18-48

Capacities to 43,000 cfm and 0.75 in. wg

- Model Number Code ..... 19
- RDU Performance ..... 19

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## Quick Delivery and Quick Build Programs



All RBU, RBUMO and RDU sizes are available through our five and ten day Quick Build (QB) program. This allows the flexibility of knowing that your fan can be made to order and ship in as little as five days.

Other products are available from our Quick Delivery (QD) program. The QD program provides same day shipment of Greenheck product from our strategically located warehouses throughout the world. These stock products can be ordered over the Internet by visiting [www.greenheck.com/quick](http://www.greenheck.com/quick)



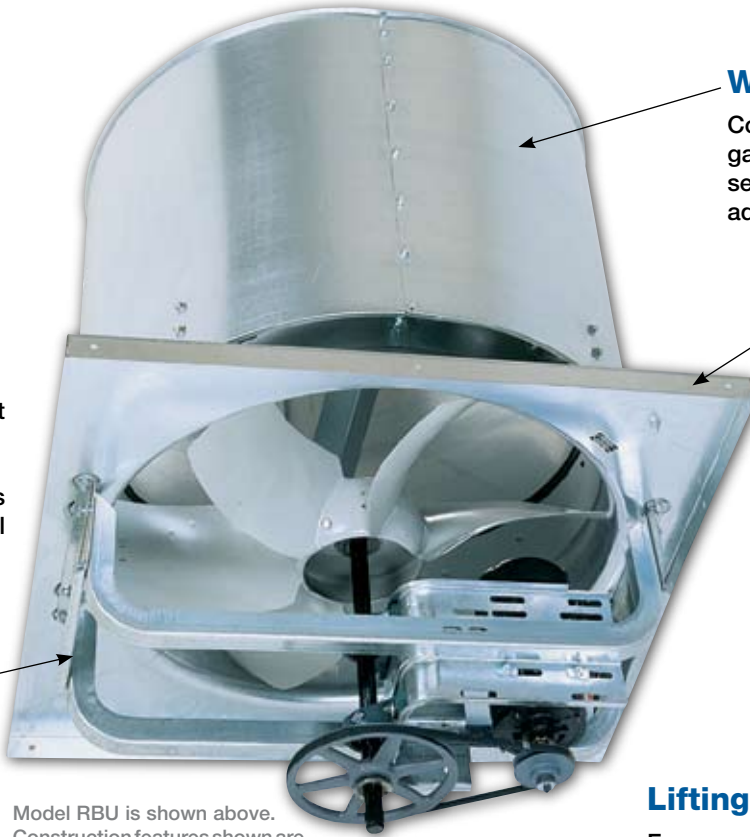


## Butterfly Dampers

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.

## Drive Frame

Die formed, galvanized structural steel drive frames provide a rigid platform for motors, shafts, bearings and drives.



Model RBU is shown above. Construction features shown are standard on all models in this catalog.

## Windband

Constructed of heavy gauge galvanized steel with bolted seams and reinforced edges for added strength.

## Curb Caps

Curb caps are constructed of galvanized steel in sizes 18-48. Sizes 54 and 60 are constructed of painted steel. Curb caps include an integral venturi inlet and prepunched mounting holes.

## Lifting Lugs

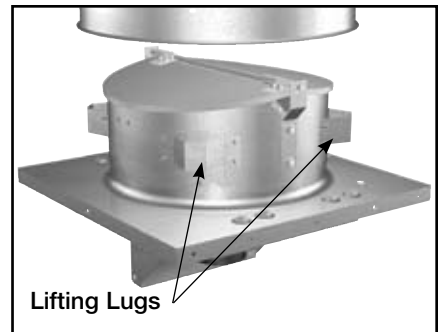
For ease in lifting to the roof deck, the windband mounting brackets are designed to be used as lifting lugs. Shown in photo below.

## SERVICE FEATURES

### Motor Out of Airstream

Model RBUMO simplifies inspection and servicing with the "motor out of the airstream" design. A removable motor cover enables quick and easy access to the motor, belt and drives from the roof deck.

Servicing of propeller and bearings can easily be accomplished by removing the fan panel/windband assembly from the fan base.



### Removable Windband

By removing the bolts from the four windband mounting brackets, the windband can be removed. With the windband removed, access to the fan can be gained through the butterfly dampers. This service feature applies to models RBU, RBUMO and RDU.

## HIGH TEMPERATURE OPTIONS for Emergency Smoke Removal

Greenheck model RBUMO can be equipped for emergency smoke removal application by specifying a high temperature option. The table below indicates the construction features that are included in the high temperature options, enabling exhaust of heat and smoke at 500°F (260°C) for a minimum of 4 hours or 1000°F (538°C) for a minimum of 1 hour.

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 lbs. per ft <sup>2</sup>		✘
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



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.

- **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 tested in accordance to UL smoke control systems.

- **HIGH TEMPERATURE OPTION - UL LISTED** (Construction Level 2 and Level 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 lbs. of lifting per sq. ft.) 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.

## ① Outlet Screen

Outlet screens constructed of heavy gauge steel mesh are 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, steel butterfly dampers are available. See notes on performance pages for minimum airflow volumes to open dampers.

## ③ Fusible Link Damper Lifters

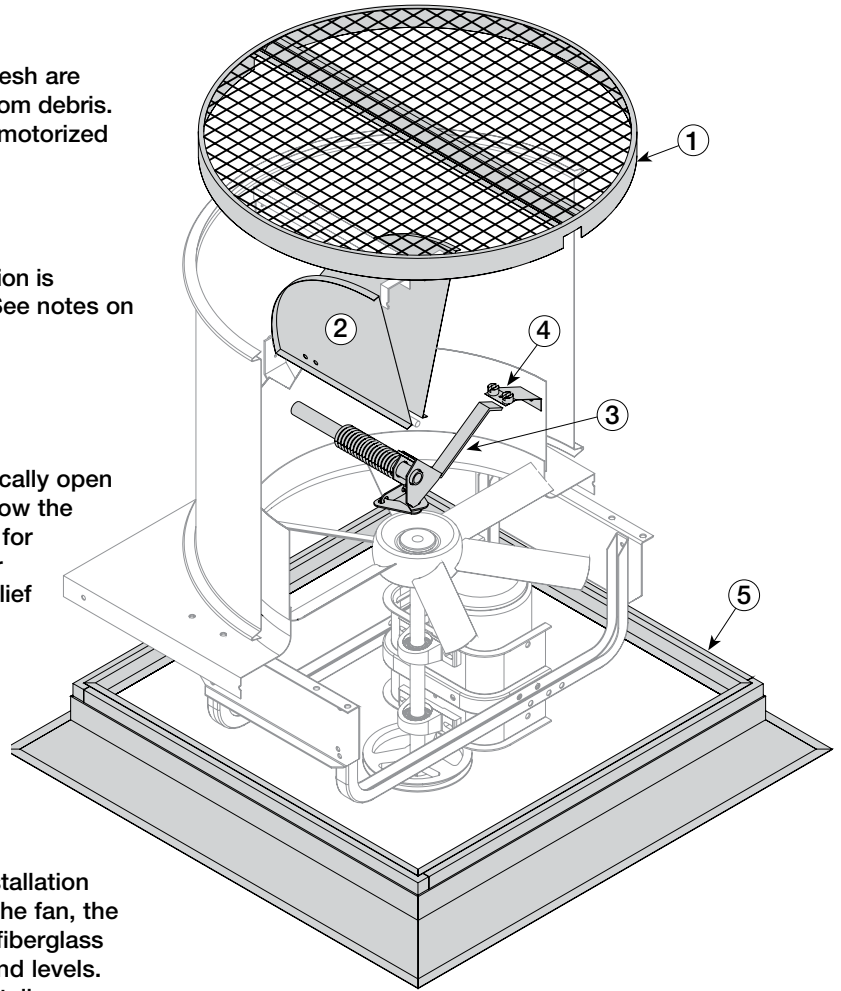
Fusible link damper lifters are available to automatically open the butterfly dampers when the air temperature below the damper blades exceeds 165°F (74°C). Fusible links for higher temperatures are also available. The damper blades are held open to provide smoke and heat relief with no electrical power required.

## ④ Magnetic Damper Latches

Magnetic latches are available to minimize damper flutter when the fan is not in operation.

## ⑤ 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 lined with fiberglass insulation to prevent condensation and reduce sound levels. See Greenheck's roof curb catalog for complete details.



## Aluminum Propellers

Aluminum propellers are available for spark resistance.

## Extended Lube Lines

For belt driven fans, lubrication lines with grease fittings are extended from shaft bearings to the exterior of the fan base. Extended lube lines allow 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 model RBU and RDU fans, 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

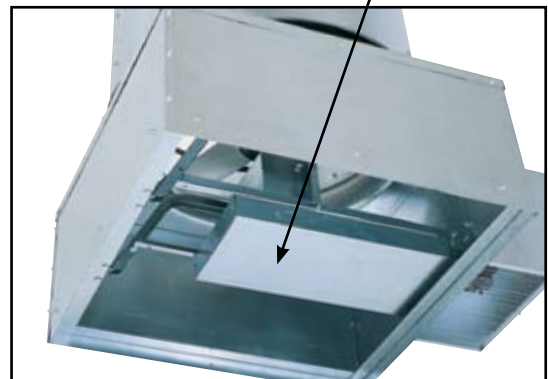
Motorized butterfly dampers are available for low CFM applications that insufficiently open the butterfly dampers, as with 2-speed motors at low speed. They also assure that the dampers are securely closed when the fan is not operating.

## Painted Exteriors

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

## Belt Cover (Belt Tube)

A belt and drive cover is available on model RBUMO to isolate the drive components from airstream contaminants.



## Motor Selection

Motor frame size, enclosure type, and fan size limit the available standard motor selections. The accompanying chart shows the motors available per size for belt drive fans. For direct drive fans, consult your local Greenheck representative or the factory for motor availability.

### 60 Cycle Motors

Size	HP	Single Speed						Two Speed	
		Open		TE		Exp. Resist		Open	
		115	*	115	*	115	*	115	**
		208		208		208		208	
		230		230		230		230	
		1 ph	3 ph	1 ph	3 ph	1 ph	3 ph	1 ph	3 ph
20-24	1/4	+	+	+	+	+	+	+	
20-30	1/3	+	+	+	+	+	+	+	
20-42	1/2	+	+	+	+	+	+	+	+
20-48	3/4	+	+	+	+	+	+	+	+
24-48	1	+	+	+	+	+	+	+	+
24-54	1½	+	+	+	+	+	+	+	+
30-54	2	+	+	+	+		+		+
30-60	3	+	+	+	+		+		+
30-60	5	+ X	+	+ X	+		+		+
36-60	7½		+		+		+		+
48-60	10		+		+		+		+
54-60	15		+		+		+		+

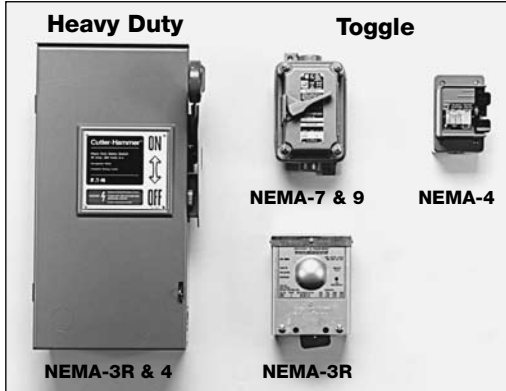
- + Indicates available motors
- X Motors only available in 208 or 230v.
- \* 1 speed 3 phase motors available in 200 or 208-230/460v. Motors 1/2 hp and larger are available 575v.
- \*\* 2 speed 3 phase specify one voltage only (200, 208, 230 or 460v). For 575v, consult local representative.

### 50 Cycle Motors

Size	HP	Single Speed					
		Open		TE		Exp. Resist	
		1 ph	3 ph	1 ph	3 ph	1 ph	3 ph
20-24	1/4	+	+	+	+		+
20-30	1/3	+	+	+	+		+
20-42	1/2	+	+	+	+		+
20-48	3/4	+	+	+	+		+
24-48	1	+	+	+	+		+
30-54	1½	+	+	+	+		+
30-60	2	+ X	+	+	+		+
30-60	3	+ X	+		+		+
36-60	5		+		+		+
48-60	7½		+		+		+
54-60	10		+		+		+

- + Indicates available motors
- X available in 220/50/1 only.
- Open 1ph 110/220/50/1 Class B 40°C AMB  
3ph 220/50/3, 190/380/50/3, 415/50/3 Class B 40°C AMB
- TE 1ph 220/240/50/1 Class F 50°C AMB  
3ph 220/50/3, 190/380/50/3, 415/50/3 Class F 50°C AMB
- EXP 1ph 110/220/50/1 Class B 40°C AMB  
3ph 220/50/3, 190/380/50/3, 415/50/3 Class B 40°C AMB

## 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.

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

## Wiring

When a fan is ordered with a mounted disconnect, wiring from the motor to the disconnect box is provided.

## English/Metric Conversions

CATEGORY	ENGLISH UNIT	METRIC UNIT	CONVERSION FACTOR*
Airflow Volume	cfm (ft <sup>3</sup> /min)	m <sup>3</sup> / sec	0.00047195
		m <sup>3</sup> / min	0.028317
		m <sup>3</sup> / hr	1.6990
		l / sec	0.47195
		l / min	28.317
Pressure	inches wg	Pascals (Pa)	248.36
Power	HP	Watt	745.70
		Kilowatt (kW)	0.7457
Temperature	Fahrenheit (°F)	Celsius (°C)	(°F - 32)x(5/9)
Tip Speed & Velocity	ft/min	m/sec	0.00508
Fan Speed	rpm	rps	0.016667
Dimensions	inches	mm	25.4
		cm	2.54
	feet	m	.3048

\* To obtain metric units, multiply the english units by the conversion factor.  
Note: The Greenheck Computer Aided Product Selection program (CAPS) provides conversions for all of these metric and english units automatically.

## UL/cUL 705

All model RBU and selected model RDU fans with TE motors are available with the UL/cUL 705 listing for electrical. The UL/cUL 705 listing is available on Model RBUMO fans with ODP and TE motors.



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

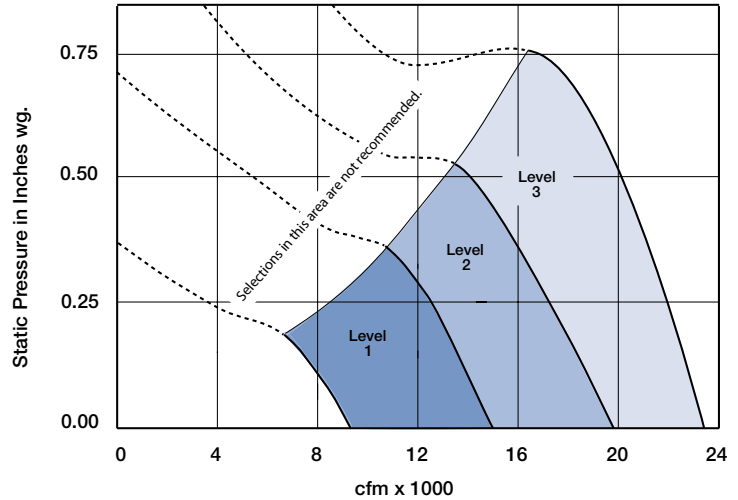


## Performance Levels

Greenheck models RBU and RBUMO are offered in three performance levels. This concept assures the system designer a high quality, reliably constructed fan for every performance point at the most economical cost. The key difference between levels is the maximum horsepower capacity.

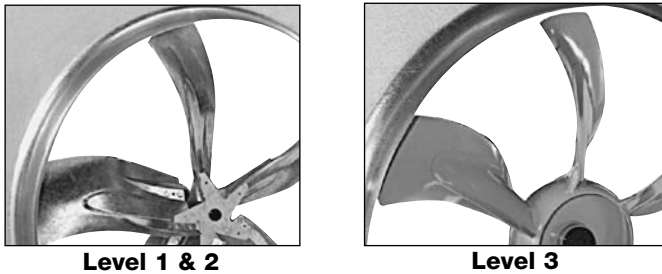
The performance based selection process is built right into the catalog tables and Greenheck's Computer Aided Product Selection (CAPS) program. Simply specify the CFM and static pressure. The optimal level of construction will be automatically selected.

The graph at right illustrates the performance ranges by level for model RBU-36. For a performance of 16,000 cfm at 0.25 in. wg, RBU-36 level 2 gives the most economical selection.



## Propeller Types - Belt Drive

### “L” TYPE CONSTRUCTION

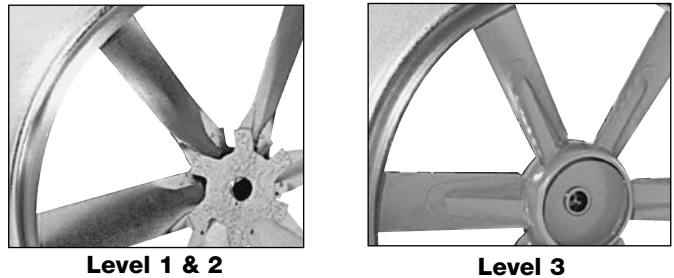


The “L” Type propeller is a fabricated steel propeller (*aluminum optional*) with a swept, steeply pitched blade design. These propellers typically run at **lower RPMs** and generate **low sound** levels making them the best selection for sound critical applications or applications that require the best combination of both air and sound performance.

### Motor Service Factor

Model RBU and RDU motors 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's nameplate horsepower) without damage due to overheating. Lesser overloads are recommended for applications using totally enclosed or explosion resistant motors.

### “H” TYPE CONSTRUCTION

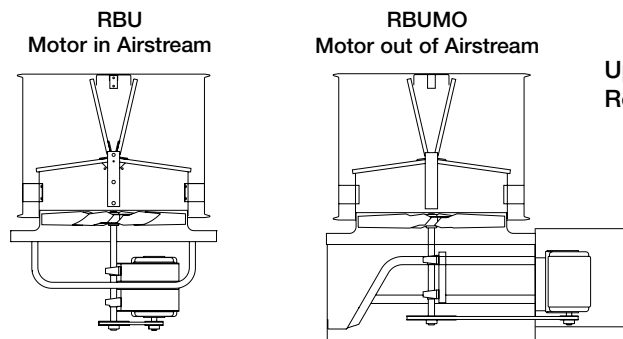


The “H” Type propeller is a fabricated steel propeller (*aluminum optional*) with a straight, moderately pitched blade. It is designed for applications where static pressures cannot be met by the “L” propeller. These propellers typically run at **higher RPMs** and generate **higher sound** levels than the “L” propellers.

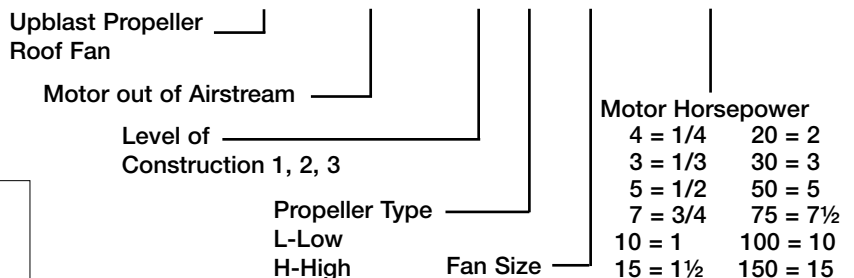
Model RBUMO, with its motor out of the airstream design, has been limited to a 10% service factor. If selection into the motor service factor is not desirable due to fan application or designer preference, specify the next higher motor horsepower.

## Model Number Code - Belt Drive

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



### RBU MO - 2 H 36 - 10





## Size 20

## Belt Drive - Model RBU

Model Number	Motor HP	Fan RPM	Max BHP	* Sones	Static Pressure in Inches of 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				
					CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM				
<b>LEVEL 1 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 1084</b>	<b>H - 1443</b>	<b>Max Motor Frame Size - 56</b>					<b>TS = RPM x 5.236</b>							
RBU-1L20-4	1/4	726	0.18	11.3	3506															
RBU-1L20-4	1/4	810	0.25	13.4	3912	3218														
RBU-1L20-4	1/4	861	0.30	14.8	4158	3516														
RBU-1L20-3	1/3	891	0.33	15.2	4303	3689	3512													
RBU-1L20-3	1/3	946	0.40	16.2	4569	4001	3835													
RBU-1H20-3	1/3	1145	0.30	17.2	3408															
RBU-1H20-3	1/3	1186	0.33	17.5	3530	3262														
RBU-1H20-3	1/3	1260	0.40	18.1	3750	3512	3423	3333	3174											
RBU-1L20-5	1/2	1020	0.50	17.9	4926	4400	4260	4106												
RBU-1L20-5	1/2	1084	0.60	19.3	5235	4740	4616	4476												
RBU-1H20-5	1/2	1358	0.50	19.3	4042	3832	3756	3673	3515	3369	3190									
RBU-1H20-5	1/2	1443	0.60	21	4295	4098	4041	3963	3807	3669	3531	3229								
<b>LEVEL 2 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 1241</b>	<b>H - 1652</b>	<b>Max Motor Frame Size - 145T</b>					<b>TS = RPM x 5.236</b>							
RBU-2L20-5	1/2	1020	0.50	17.9	4926	4400	4260	4106												
RBU-2L20-5	1/2	1084	0.60	19.3	5235	4740	4616	4476												
RBU-2H20-5	1/2	1358	0.50	19.3	4042	3832	3756	3673	3515	3369	3190									
RBU-2H20-5	1/2	1443	0.60	21	4295	4098	4041	3963	3807	3669	3531	3229								
RBU-2L20-7	3/4	1168	0.75	21	5641	5182	5067	4951	4684											
RBU-2L20-7	3/4	1241	0.90	23	5994	5562	5453	5344	5107	4854										
RBU-2H20-7	3/4	1554	0.75	23	4625	4442	4397	4337	4193	4053	3925	3724								
RBU-2H20-7	3/4	1652	0.90	24	4917	4745	4702	4659	4528	4392	4267	4086	3663							

Minimum CFM required to open dampers  
Aluminum Dampers: 3170  
Steel Dampers: 4090

## Size 24

## Belt Drive - Model RBU

Model Number	Motor HP	Fan RPM	Max BHP	* Sones	Static Pressure in Inches of 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				
					CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM				
<b>LEVEL 1 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 808</b>	<b>H - 1351</b>	<b>Max Motor Frame Size - 56</b>					<b>TS = RPM x 6.283</b>							
RBU-1L24-4	1/4	525	0.16	13	4412															
RBU-1L24-4	1/4	604	0.25	14	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	0.3	16.3	5081	4581	4435	4310	4024											
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	0.4	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	0.5	19.6	5994	5635	5487	5340	5121	4904	4627									
RBU-1H24-5	1/2	1176	0.6	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	0.9	28	7382	7106	7037	6947	6708	6491	6318	6058								
<b>LEVEL 2 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 924</b>	<b>H - 1477</b>	<b>Max Motor Frame Size - 145T</b>					<b>TS = RPM x 6.283</b>							
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	0.9	26	7382	7106	7037	6947	6708	6491	6318	6058								
RBU-2H24-10	1	1376	1	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							
<b>LEVEL 3 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 1135</b>	<b>H - 1460</b>	<b>Max Motor Frame Size - 145T</b>					<b>TS = RPM x 6.283</b>							
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					

Performance certified is for Model RBU exhaust 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 fonsones at 5ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet fan 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 program.

## Size 30

## Belt Drive - Model RBU

Model Number	Motor HP	Fan RPM	Max BHp	* Sones	Static Pressure in Inches of 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		
					CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM		
<b>LEVEL 1 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 695</b>	<b>H - 963</b>	<b>Max Motor Frame Size - 56</b>				<b>TS = RPM x 7.854</b>						
RBU-1L30-3	1/3	454	0.25	10.7	7256													
RBU-1L30-3	1/3	499	0.33	11.7	7975	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	11108	9822	9534	9257	8651	7844								
RBU-1H30-7	3/4	824	0.75	19	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					
<b>LEVEL 2 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 964</b>	<b>H - 1213</b>	<b>Max Motor Frame Size - 184T</b>				<b>TS = RPM x 7.854</b>						
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	1½	824	1.50	23	13170	12102	11820	11543	11077	10591	10054							
RBU-2L30-15	1½	876	1.81	25	14001	13003	12739	12474	12004	11566	11083	10270						
RBU-2H30-15	1½	1039	1.50	29	11806	11236	11094	10938	10612	10284	9951	9418	8408					
RBU-2H30-15	1½	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			
<b>LEVEL 3 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 1154</b>	<b>H - 1471</b>	<b>Max Motor Frame Size - 184T</b>				<b>TS = RPM x 7.854</b>						
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

Performance certified is for Model RBU exhaust 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 fansones at 5ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet fan 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 program.

## Size 36

## Belt Drive - Model RBU

Model Number	Motor HP	Fan RPM	Max BHp	* Sones	Static Pressure in Inches of 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				
					CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM				
<b>LEVEL 1 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 551</b>	<b>H - 806</b>	<b>Max Motor Frame Size - 145T</b>					<b>TS = RPM x 9.424</b>							
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	12129	10040	9378	8604												
RBU-1H36-5	1/2	458	0.33	13	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	1½	760	1.50	25	15502	14433	14195	13956	13335	12611	11784									
RBU-1H36-15	1½	806	1.80	28	16440	15419	15194	14969	14454	13829	13081	11825								
<b>LEVEL 2 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 693</b>	<b>H - 1014</b>	<b>Max Motor Frame Size - 184T</b>					<b>TS = RPM x 9.424</b>							
RBU-2L36-15	1½	589	1.50	23	16423	15126	14702	14249	13267	12291										
RBU-2L36-15	1½	626	1.80	25	17454	16283	15884	15485	14579	13658	12653									
RBU-2H36-15	1½	760	1.50	25	15502	14433	14195	13956	13335	12611	11784									
RBU-2H36-15	1½	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	2.4	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						
<b>LEVEL 3 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 976</b>	<b>H - 1401</b>	<b>Max Motor Frame Size - 184T</b>					<b>TS = RPM x 9.424</b>							
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

Performance certified is for Model RBU exhaust 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 5ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet fan 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 program.







## Size 20

## Belt Drive - Model RBUMO

Model Number	Motor HP	Fan RPM	Max BHp	* Sones	Static Pressure in Inches of 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			
					CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM			
<b>LEVEL 1 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 1060</b>	<b>H - 1393</b>	<b>Max Motor Frame Size - 56</b>					<b>TS = RPM x 5.236</b>						
RBUMO-1L20-4	1/4	730	0.18	11.2	3303														
RBUMO-1L20-4	1/4	815	0.25	13.2	3688														
RBUMO-1L20-4	1/4	842	0.28	13.9	3810														
RBUMO-1L20-3	1/3	897	0.33	15.0	4059	3268													
RBUMO-1L20-3	1/3	926	0.36	15.5	4190	3442													
RBUMO-1H20-3	1/3	1138	0.30	17.0	3217														
RBUMO-1H20-3	1/3	1178	0.33	17.3	3330														
RBUMO-1H20-3	1/3	1216	0.36	17.6	3437														
RBUMO-1L20-5	1/2	1027	0.50	17.6	4647	3970	3804	3539											
RBUMO-1L20-5	1/2	1060	0.55	18.3	4797	4139	3979	3754											
RBUMO-1H20-5	1/2	1349	0.50	18.9	3813	3425	3339	3252											
RBUMO-1H20-5	1/2	1393	0.55	19.6	3937	3559	3475	3391	3224										
<b>LEVEL 2 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 1214</b>	<b>H - 1594</b>	<b>Max Motor Frame Size - 145T</b>					<b>TS = RPM x 5.236</b>						
RBUMO-2L20-5	1/2	1027	0.50	17.6	4647	3970	3804	3539											
RBUMO-2L20-5	1/2	1060	0.55	18.3	4797	4139	3979	3754											
RBUMO-2H20-5	1/2	1349	0.50	18.9	3813	3425	3339	3252											
RBUMO-2H20-5	1/2	1393	0.55	19.6	3937	3559	3475	3391	3224										
RBUMO-2L20-7	3/4	1176	0.75	21.0	5322	4722	4581	4437	4021										
RBUMO-2L20-7	3/4	1214	0.83	22	5494	4909	4775	4635	4270										
RBUMO-2H20-7	3/4	1544	0.75	22	4364	4013	3938	3863	3711	3560	3398								
RBUMO-2H20-7	3/4	1594	0.83	23	4506	4163	4090	4017	3870	3724	3570	3332							

Minimum CFM required to open dampers  
Aluminum Dampers: 3170  
Steel Dampers: 4090

## Size 24

## Belt Drive - Model RBUMO

Model Number	Motor HP	Fan RPM	Max BHp	* Sones	Static Pressure in Inches of 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			
					CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM			
<b>LEVEL 1 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 809</b>	<b>H - 1259</b>	<b>Max Motor Frame Size - 56</b>					<b>TS = RPM x 6.283</b>						
RBUMO-1L24-3	1/3	630	0.30	14.3	5093	4143													
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											
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							
<b>LEVEL 2 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 883</b>	<b>H - 1377</b>	<b>Max Motor Frame Size - 145T</b>					<b>TS = RPM x 6.283</b>						
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						
<b>LEVEL 3 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 1089</b>	<b>H - 1370</b>	<b>Max Motor Frame Size - 145T</b>					<b>TS = RPM x 6.283</b>						
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

Performance certified is for Model RBUMO exhaust 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 fonsones at 5ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet fan 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 program.

## Size 30

## Belt Drive - Model RBUMO

Model Number	Motor HP	Fan RPM	Max BHP	* Sones	Static Pressure in Inches of 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			
					CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM			
<b>LEVEL 1 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 696</b>	<b>H - 929</b>	<b>Max Motor Frame Size - 56</b>					<b>TS = RPM x 7.854</b>						
RBUMO-1L30-3	1/3	481	0.30	11.3	6936														
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														
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								
<b>LEVEL 2 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 933</b>	<b>H - 1167</b>	<b>Max Motor Frame Size - 184T</b>					<b>TS = RPM x 7.854</b>						
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	1½	822	1.50	23	11854	10925	10667	10409	9873	9287	8593								
RBUMO-2L30-15	1½	848	1.65	24	12229	11335	11085	10835	10319	9785	9149								
RBUMO-2H30-15	1½	1029	1.50	29	11321	10642	10464	10286	9931	9585	9240	8613							
RBUMO-2H30-15	1½	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						
<b>LEVEL 3 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 1109</b>	<b>H - 1420</b>	<b>Max Motor Frame Size - 184T</b>					<b>TS = RPM x 7.854</b>						
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

Performance certified is for Model RBUMO exhaust 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 fansones at 5ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet fan 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 program.

## Size 36

## Belt Drive - Model RBUMO

Model Number	Motor HP	Fan RPM	Max BHp	* Sones	Static Pressure in Inches of 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			
					CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM			
<b>LEVEL 1 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 551</b>	<b>H - 784</b>	<b>Max Motor Frame Size - 145T</b>				<b>TS = RPM x 9.424</b>							
RBUMO-1L36-5	1/2	355	0.33	10.7	9535														
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											
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	1½	551	1.24	20	14800	13414	13080	12620	11645	10569									
RBUMO-1H36-15	1½	760	1.50	25	15026	13900	13618	13336	12725	12094	11444	10035							
RBUMO-1H36-15	1½	784	1.65	27	15501	14410	14136	13863	13283	12677	12048	10846							
<b>LEVEL 2 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 693</b>	<b>H - 988</b>	<b>Max Motor Frame Size - 184T</b>				<b>TS = RPM x 9.424</b>							
RBUMO-2L36-15	1½	588	1.50	23	15793	14484	14178	13826	12965	11978	10970								
RBUMO-2L36-15	1½	607	1.65	24	16304	15029	14733	14437	13603	12686	11709								
RBUMO-2H36-15	1½	760	1.50	25	15026	13900	13618	13336	12725	12094	11444	10035							
RBUMO-2H36-15	1½	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					
<b>LEVEL 3 PERFORMANCE</b>					<b>MAX RPM</b>	<b>L - 943</b>	<b>H - 1343</b>	<b>Max Motor Frame Size - 184T</b>				<b>TS = RPM x 9.424</b>							
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

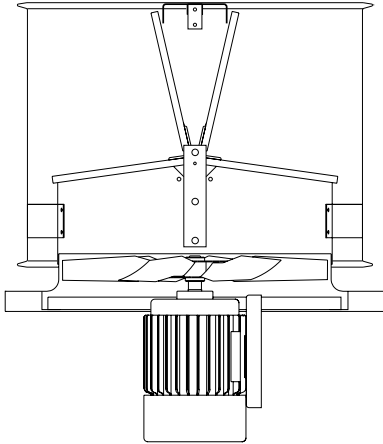
Performance certified is for Model RBU exhaust for installation type A: Free inlet, Free outlet. Power rating (bhp) does not include transmission losses. Performance ratings do not include appurtenances (accessories). The sound ratings shown are loudness values in fonsones at 5ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet fan 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 program.



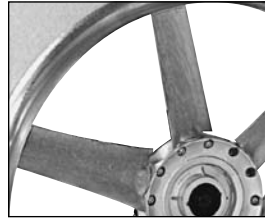
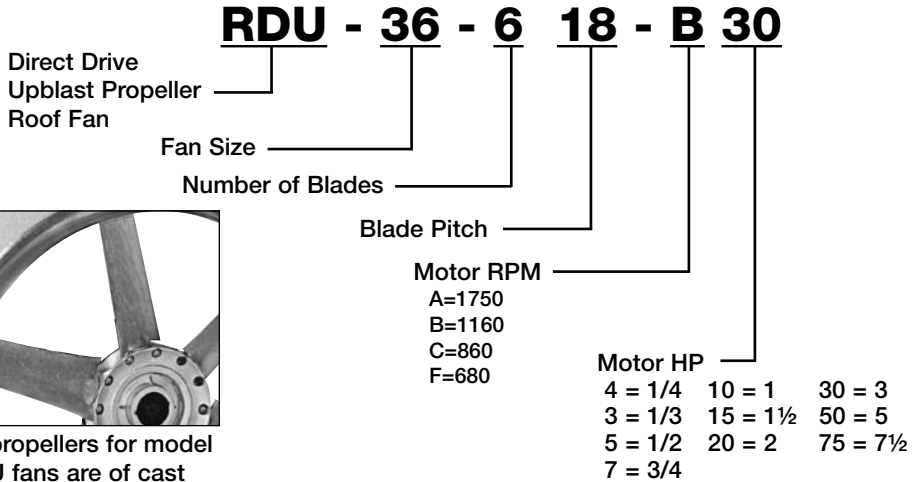






## Model Number Code - Direct Drive

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 of cast aluminum construction.

## Size 18-24

## Direct Drive - Model RDU

Model Number	Motor HP	Fan RPM	Max BHp	* Sones	Static Pressure in Inches of wg													
					0.000 CFM	0.100 CFM	0.125 CFM	0.150 CFM	0.200 CFM	0.250 CFM	0.300 CFM	0.375 CFM	0.500 CFM	0.625 CFM	0.750 CFM	1.000 CFM		
RDU-18-635-B3	1/3	1140	0.37	19.1	3178	2812												
RDU-18-317-A4	1/4	1725	0.31	23	3101	2858	2796											
RDU-18-416-A3	1/3	1725	0.39	26	3274	3070	3013	2956	2839									
RDU-18-620-A5	1/2	1725	0.62	28	3792	3598	3550	3502	3404	3304	3198	3014						
RDU-18-432-A7	3/4	1725	0.87	32	4248	3992	3930	3868	3739	3601	3444							
RDU-18-632-A10	1	1725	1.20	32	4755	4528	4471	4414	4301	4163	4015							
RDU-20-425-B4	1/4	1140	0.28	19.7	3554													
RDU-20-625-B3	1/3	1140	0.37	21	3831	3497	3401	3302										
RDU-20-635-B5	1/2	1140	0.56	24	4316	3944	3857	3740										
RDU-20-313-A3	1/3	1725	0.40	27	3940	3643	3569	3494	3333	3171								
RDU-20-320-A5	1/2	1725	0.57	28	4505	4195	4120	4046	3892	3732	3561	3273						
RDU-20-618-A7	3/4	1725	0.86	34	4943	4743	4693	4640	4523	4402	4280	4086						
RDU-20-430-A10	1	1725	1.19	35	5746	5455	5382	5311	5168	5018	4867	4626	4064					
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										
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				

Performance certified is for Model RDU exhaust 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 fonsones at 5ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet fans on levels. The AMCA Certified Ratings Sound Seal applies to some 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 program.

## Size 30-48

## Direct Drive - Model RDU

Model Number	Motor HP	Fan RPM	Max BHP	* Sones	Static Pressure in Inches of 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			
					CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM		
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												Minimum CFM required to open dampers Aluminum Dampers: 6050 Steel Dampers: 7130
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	1½	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-36-414-F3	1/3	680	0.38	16.6	9917	7934												Minimum CFM required to open dampers Aluminum Dampers: 7620 Steel Dampers: 10980	
RDU-36-615-F5	1/2	680	0.59	19	11433	9917	9459	8949	7673										
RDU-36-622-F7	3/4	680	0.85	19.9	13216	11603	11061	10511	9213										
RDU-36-629-F10	1	680	1.15	22	14378	12427	11758	11166											
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	1½	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							Minimum CFM required to open dampers Aluminum Dampers: 7620 Steel Dampers: 10980	
RDU-36-318-B15	1½	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-42-318-F7	3/4	680	0.90	26	15873	12993	12062											Minimum CFM required to open dampers Aluminum Dampers: 11050 Steel Dampers: 13550	
RDU-42-326-F10	1	680	1.18	28	17693	13919	12889	11677											
RDU-42-430-F15	1½	680	1.78	31	20266	16909	15982	14977	12230										
RDU-42-628-F20	2	680	2.38	36	22335	19964	19209	18361	16704	15083	13007								
RDU-42-605-C10	1	860	1.24	34	14640	13254	12891	12556	11886	11297								Minimum CFM required to open dampers Aluminum Dampers: 12820 Steel Dampers: 16420	
RDU-42-318-C15	1½	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-48-407-F7	3/4	680	0.87	30	17727	15062	14400	13708										Minimum CFM required to open dampers Aluminum Dampers: 12820 Steel Dampers: 16420	
RDU-48-411-F10	1	680	1.16	31	20823	18292	17571	16813	15029	12918									
RDU-48-613-F15	1½	680	1.79	33	23068	21326	20829	20332	19185	17878	16327	13330							
RDU-48-617-F20	2	680	2.31	36	26328	24480	23979	23477	22269	20873	19170	15473							
RDU-48-625-F30	3	680	3.53	37	32294	29875	29316	28758	27277	25313	22864	18864							
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	1½	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	7½	860	8.83	55	43433	41386	40786	40100	38727	37353	35980	33238	28482	18414	12755				

Performance certified is for Model RDU exhaust 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 fansones at 5ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet fan 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 program.



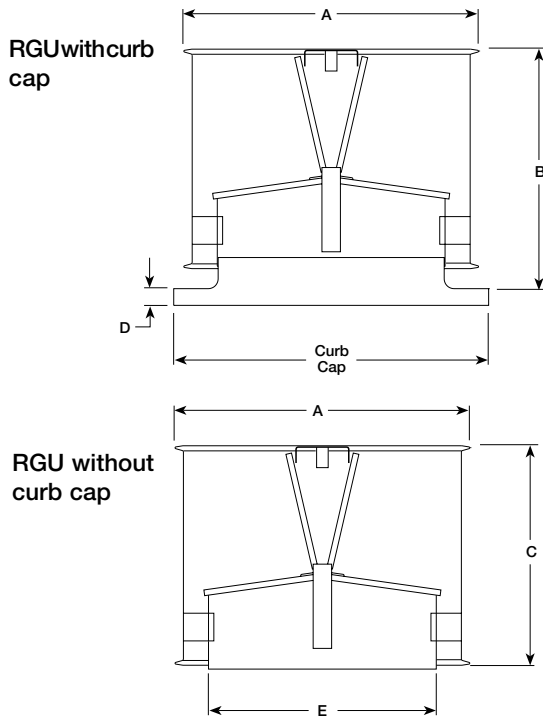
## MODEL RGU Nonpowered Gravity Upblast Ventilator

Model RGU is an upblast ventilator designed for use as a weatherproof outlet on vertical high velocity exhaust systems.

Model RGU can be furnished without the curb cap for mounting directly on round stacks.

Standard construction is heavy gauge galvanized steel. Nine sizes are available, corresponding to powered units in sizes 18-60.

Fusible link damper lifters are available to allow RGU units to function as heat and smoke relief vents.

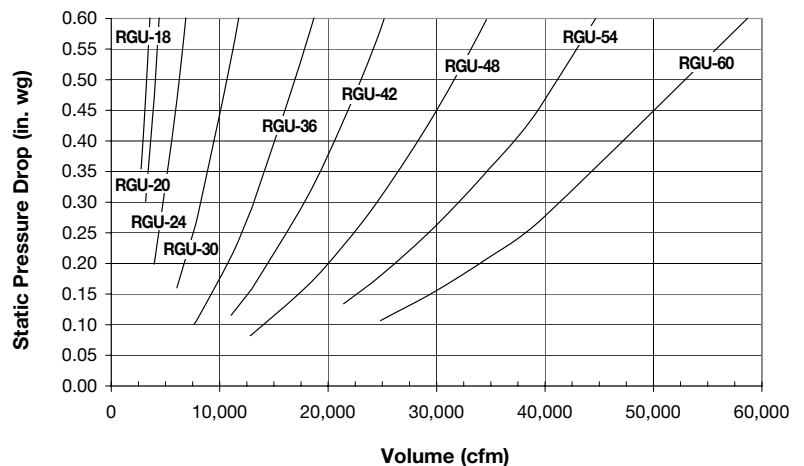


Model Size	A	B	C	D	E	Curb Cap	Recommended Roof Opening	Approx. Weight (lb)
18	25	22	20 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	18 <sup>1</sup> / <sub>2</sub>	28	22	120
20	27 <sup>1</sup> / <sub>4</sub>	24	21 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	20 <sup>1</sup> / <sub>2</sub>	30	24	140
24	31 <sup>1</sup> / <sub>8</sub>	26	24	1 <sup>3</sup> / <sub>4</sub>	24 <sup>1</sup> / <sub>2</sub>	34	28	160
30	37 <sup>3</sup> / <sub>8</sub>	30	26 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	30 <sup>5</sup> / <sub>8</sub>	40	34	175
36	43 <sup>1</sup> / <sub>2</sub>	33	29 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	36 <sup>5</sup> / <sub>8</sub>	46	40	190
42	48 <sup>7</sup> / <sub>8</sub>	38	34 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	42 <sup>3</sup> / <sub>4</sub>	52	46	245
48	56	40	34 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	48 <sup>1</sup> / <sub>2</sub>	58	52	295
54	62 <sup>5</sup> / <sub>8</sub>	45	40 <sup>1</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	55	66 <sup>1</sup> / <sub>2</sub>	60	450
60	68 <sup>3</sup> / <sub>4</sub>	48	43 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	61	72 <sup>1</sup> / <sub>2</sub>	66	600

### MINIMUM CFM REQUIRED TO OPEN DAMPERS

Model Size	Damper Material	
	Aluminum	Galvanized
18	2750	3520
20	3170	4090
24	3950	5220
30	6050	7130
36	7620	10980
42	11050	13550
48	12820	16420
54	21430	21430
60	24820	24820

### RGU Performance



## LEVEL 1 - Models RBU, RBUMO

**Housing** - Galvanized steel windband and curb cap. Damper blades constructed of aluminum, galvanized optional.

**Propeller** - Galvanized steel, riveted blades.

**Bearings** - Stamped steel pillow blocks.

Fan Size	Material Gauges					Drive Frame Channel	Belt Drive Shaft Size	Max Mtr. Frame Size	Approx Weight (lbs.)	
	Wind-band (galv)	Curb Cap (galv)	Butterfly Damper		RBUMO Housing (galv)				RBU	RBUMO
			Galv.	Alum.						
20	20	16	24	0.040	18	14	3/4	56	210	285
24	20	16	24	0.040	18	14	3/4	56	232	321
30	20	16	24	0.040	18	11	3/4	56	284	364
36	20	16	20	0.051	18	11	3/4	145T	321	424

## LEVEL 2 - Models RBU, RBUMO

**Housing** - Windbands are of galvanized steel. Curb cap galvanized through size 48. Size 54 curb cap uses painted steel.

Damper blades constructed of aluminum, galvanized optional.

**Propeller** - Reinforced galvanized steel, riveted blades.

**Bearings** - Cast iron pillow block bearings with grease fittings.

Fan Size	Material Gauges					Drive Frame Channel	Belt Drive Shaft Size	Max Mtr. Frame Size	Approx Weight (lbs.)	
	Wind-band (galv)	Curb Cap (galv)	Butterfly Damper		RBUMO Housing (galv)				RBU	RBUMO
			Galv.	Alum.						
20	20	16	24	0.040	18	14	3/4	145T	121	297
24	20	16	24	0.040	18	14	3/4	145T	246	338
30	20	16	24	0.040	18	11	1	184T	309	396
36	20	16	20	0.051	18	11	1	184T	363	474
42	20	14	20	0.064	18	11	1 1/4	184T	478	563
48	20	14	20	0.064	18	11	1 1/4	184T	539	662
54	18	14	18	0.080	16	11	1 1/4	184T	722	824

## LEVEL 3 - Models RBU, RBUMO, RDU

**Housing** - Windbands are of galvanized steel. Curb cap galvanized through size 48. Sizes 54 and 60 curb cap use painted steel. Damper blades constructed of aluminum, galvanized optional.

**Propeller** - RBU, RBUMO - Heavy duty, welded, reinforced, steel blades.

RDU - Heavy duty, cast aluminum blades. All with keyed hubs.

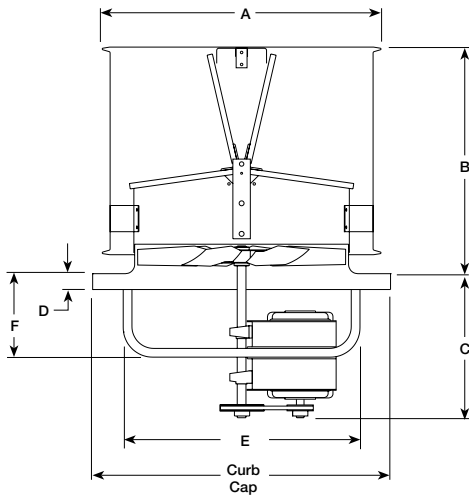
**Bearings** - Cast iron pillow blocks with grease fittings (on RBU and RBUMO).

Fan Size	Material Gauges							Belt Drive Shaft Size	Max Mtr. Frame Size		Approx Weight (lbs.)		
	Wind-band (galv)	Curb Cap (galv)	Butterfly Damper		RBUMO Housing (galv)	Drive Frame Channel			Belt Drive	Direct Drive	RBU	RBUMO	RDU
			Galv.	Alum.		Belt	Direct						
18	20	18	24	0.040	—	—	12	—	—	56	—	—	193
20	20	18	24	0.040	—	—	12	—	—	143T	—	—	222
24	20	16	24	0.040	18	14	11	3/4	145T	182T	256	343	252
30	20	16	24	0.040	18	11	11	1	184T	184T	352	451	341
36	20	16	20	0.051	18	11	8	1 1/4	184T	215T	432	547	419
42	20	14	20	0.064	18	11	8	1 1/2	215T	254T	655	630	565
48	20	14	20	0.064	18	11	8	1 1/2	215T	256T	639	767	679
54	18	14	18	0.080	16	11	—	1 1/2	254T	—	912	1021	—
60	18	14	18	0.080	16	11	—	1 3/4	256T	—	1025	1191	—

## Typical for all levels of construction

**For Belt Drive Fans:** • Fan shafts are precision turned, ground and polished steel. • Pillow block bearings are L(10) of 100,000 hour rated. • Motor plates are adjustable for belt tensioning. • Drives are sized for a minimum of 150% of driven HP. • Motor sheaves are adjustable for system balancing. • Drive belts are static free.

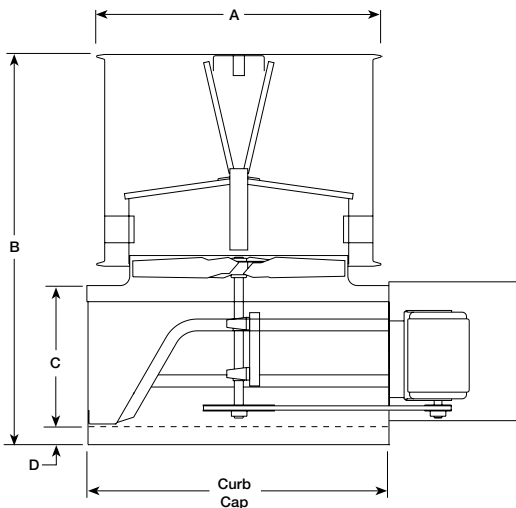
**For Belt and Direct Drive Fans:** • Motors are heavy duty ball bearing type. • Fasteners are corrosion resistant.



## Model RBU - Belt Drive

Model Size	A	B	C		D	E	F	Curb Cap I.D.	Recommended Roof Opening
			Level						
			1, 2	3					
20	27 <sup>1</sup> / <sub>4</sub>	24	15	—	1 <sup>3</sup> / <sub>4</sub>	23 <sup>1</sup> / <sub>4</sub>	9 <sup>1</sup> / <sub>32</sub>	30	24
24	31 <sup>1</sup> / <sub>8</sub>	26	15 <sup>1</sup> / <sub>2</sub>	16 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	27 <sup>3</sup> / <sub>8</sub>	9 <sup>7</sup> / <sub>16</sub>	34	28
30	37 <sup>3</sup> / <sub>8</sub>	30	15 <sup>1</sup> / <sub>2</sub>	16 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	34 <sup>3</sup> / <sub>4</sub>	9 <sup>7</sup> / <sub>8</sub>	40	34
36	43 <sup>1</sup> / <sub>2</sub>	33	16 <sup>3</sup> / <sub>4</sub>	16 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	40 <sup>7</sup> / <sub>8</sub>	9 <sup>7</sup> / <sub>8</sub>	46	40
42	49 <sup>5</sup> / <sub>8</sub>	38	19 <sup>3</sup> / <sub>8</sub>	23 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	46 <sup>3</sup> / <sub>4</sub>	11 <sup>3</sup> / <sub>4</sub>	52	46
48	56	40	19 <sup>3</sup> / <sub>8</sub>	23 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	52 <sup>3</sup> / <sub>4</sub>	11 <sup>3</sup> / <sub>4</sub>	58	52
54	62 <sup>5</sup> / <sub>8</sub>	45	19 <sup>1</sup> / <sub>4</sub>	26 <sup>7</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	61 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>2</sub>	66 <sup>1</sup> / <sub>2</sub>	60
60	68 <sup>3</sup> / <sub>4</sub>	48	21 <sup>1</sup> / <sub>4</sub>	27	1 <sup>3</sup> / <sub>4</sub>	66 <sup>1</sup> / <sub>4</sub>	15	72 <sup>1</sup> / <sub>2</sub>	66

All dimensions are in inches.

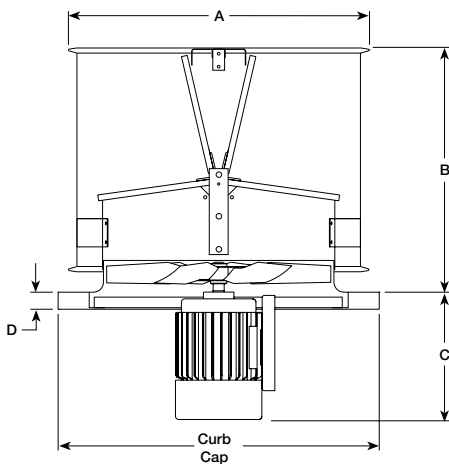


## Model RBUMO - Belt Drive

Model Size	A	*B	C	D	Curb Cap I.D.	Recommended Roof Opening
20	27 <sup>1</sup> / <sub>4</sub>	43 <sup>1</sup> / <sub>2</sub>	19 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	29 <sup>1</sup> / <sub>2</sub>	24
24	31 <sup>1</sup> / <sub>8</sub>	45 <sup>5</sup> / <sub>8</sub>	17 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>4</sub>	33 <sup>1</sup> / <sub>2</sub>	28
30	37 <sup>3</sup> / <sub>8</sub>	51 <sup>3</sup> / <sub>4</sub>	19 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>4</sub>	39 <sup>1</sup> / <sub>2</sub>	34
36	43 <sup>1</sup> / <sub>2</sub>	55	19 <sup>1</sup> / <sub>2</sub>	2 <sup>1</sup> / <sub>4</sub>	45 <sup>1</sup> / <sub>2</sub>	40
42	49 <sup>5</sup> / <sub>8</sub>	59 <sup>5</sup> / <sub>8</sub>	19 <sup>5</sup> / <sub>8</sub>	2 <sup>1</sup> / <sub>4</sub>	51 <sup>1</sup> / <sub>2</sub>	46
48	56	63 <sup>5</sup> / <sub>8</sub>	21 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	57 <sup>1</sup> / <sub>2</sub>	52
54	62 <sup>5</sup> / <sub>8</sub>	70 <sup>5</sup> / <sub>8</sub>	22 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	66	60
60	68 <sup>3</sup> / <sub>4</sub>	75	23	2 <sup>1</sup> / <sub>4</sub>	72	66

All dimensions are in inches.

\*Sizes greater than 36 with High Temp Option will be 5 inches larger.



## Model RDU - Direct Drive

Model Size	A	B	C	D	Curb Cap I.D.	Recommended Roof Opening
18	25	22	8 <sup>3</sup> / <sub>5</sub>	1 <sup>3</sup> / <sub>4</sub>	28	22
20	27 <sup>1</sup> / <sub>4</sub>	24	9 <sup>3</sup> / <sub>4</sub>	1 <sup>3</sup> / <sub>4</sub>	30	24
24	31 <sup>1</sup> / <sub>8</sub>	26	13 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	34	28
30	37 <sup>3</sup> / <sub>8</sub>	30	13 <sup>1</sup> / <sub>8</sub>	1 <sup>3</sup> / <sub>4</sub>	40	34
36	43 <sup>1</sup> / <sub>2</sub>	33	12 <sup>15</sup> / <sub>16</sub>	1 <sup>3</sup> / <sub>4</sub>	46	40
42	49 <sup>5</sup> / <sub>8</sub>	38	18 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	52	46
48	56	40	18 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>4</sub>	58	52

All dimensions are in inches.



# 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 permanently lubricated, sealed ball bearing pillow blocks. Bearings shall be selected for a minimum L10 life in excess of 100,000 hours (L50 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. 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 Seals for both sound and air performance.

For RBUMO, 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 (250°C for 2 hours), Class C (300°C for 30 minutes), and Class D (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 (250°C for 2 hours), Class C (300°C for 30 minutes), and Class D (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 Seals for both sound and air performance.

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



## Our Warranty

Greenheck warrants this equipment to be free from defects in material and workmanship for a period of one year from the purchase date. Any units or parts which prove defective during the warranty period will be replaced at our option when returned to our factory, transportation prepaid. Motors are warranted by the motor manufacturer for a period of one year. Should motors furnished by Greenheck prove defective during this period, they should be returned to the nearest authorized motor service station. Greenheck will not be responsible for any removal or installation costs.

*As a result of our commitment to continuous improvement, Greenheck reserves the right to change specifications*



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