

Propeller Upblast Roof Exhaust Fans

Belt Drive - Model RBU

Belt Drive - Model RBUMO

Direct Drive - Model RDU

Gravity - Model RGU



A Complete Upblast Roof Propeller Line

From general ventilation of factories and warehouses to industrial duty, the range of construction and performance capabilities offered by Greenheck represent 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.

Models are available in belt or direct drive. Propellers are available in fabricated steel, fabricated aluminum, and cast aluminum. Drive frames and panels are constructed to match the level of duty and motor size.

Accessories

Greenheck offers a complete line of accessories, which include outlet screens, extended lubrication lines, curbs, disconnect switches and special coatings.

AMCA Sound and Air

Performance as cataloged is assured. All fan sizes are tested in our AMCA Registered Laboratory, and all models are licensed to bear the AMCA Certified sound and air performance seals.



Greenheck 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.

AMCA sound and air certification applies to each individual fan size within this catalog including:

Belt Drive

- **Model RBU**
- **Model RBUMO**

Direct Drive

- **Model RDU**

This catalog is designed to be a self contained guide to fan selection, application and installation.

Each fan selection must meet specific job requirements. Air volume, sound level, cost, fan size and duty level determine the final selection. This catalog helps you to make these decisions and eliminate alternatives quickly. The proper fan size and construction are automatically matched to the performance required.

It's a step by step approach that uses the same logic found in our Computer Aided Product Selection program (CAPS).

UPBLAST - ROOF EXHAUST FAN



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BELT DRIVE FANS

Model RBU

Sizes 20-60

Capacities to 58,000 CFM and 1.0 in. of static pressure.

• Model Number Code	8
• Performance	9

BELT DRIVE FANS- Motor out of airstream

Model RBUMO

Sizes 20-60

Capacities to 55,000 CFM and 1.0 in. of static pressure.

• Model Number Code	8
• Performance	14

DIRECT DRIVE FANS

Model RDU

Sizes 18-48

Capacities to 43,000 CFM and 0.75 in. of static pressure.

• Model Number Code	19
• Performance	19

GRAVITY VENTILATOR

Model RGU	21
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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.

Windbands

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 for a minimum of 4 hours or 1000°F for a minimum of 1 hour.

Features	High Temperature Option	High Temperature Option with UL 793
165°F Fusible Link Damper Lifters	✓	
165°F Fusible Link Damper Lifters that will lift 10 lbs. per ft ² .		✓
Belt tube with heat shield	✓	✓
Dual Drives	✓	✓
High Temperature Bearings	✓	✓
UL Label (Power ventilators for smoke control systems)		✓



High temperature testing was conducted at Greenheck's Research and Design facility with airstream temperatures in excess of 1000°F. 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 (537° C) for a minimum of 1 hour

This construction meets specifications for IRI requirements of 500°F air for a minimum of 4 hours and the SBCCI "Standard Fire Prevention Code" requirements of 1000°F 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 - U.L. LISTED

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

1000° F (537° C) for a minimum of 1 hour

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 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 without high temperature features. For continuous high temperature operation from 180°F to 500°F, 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 air flow volumes to open dampers.

③ Fusible Link Damper Lifters

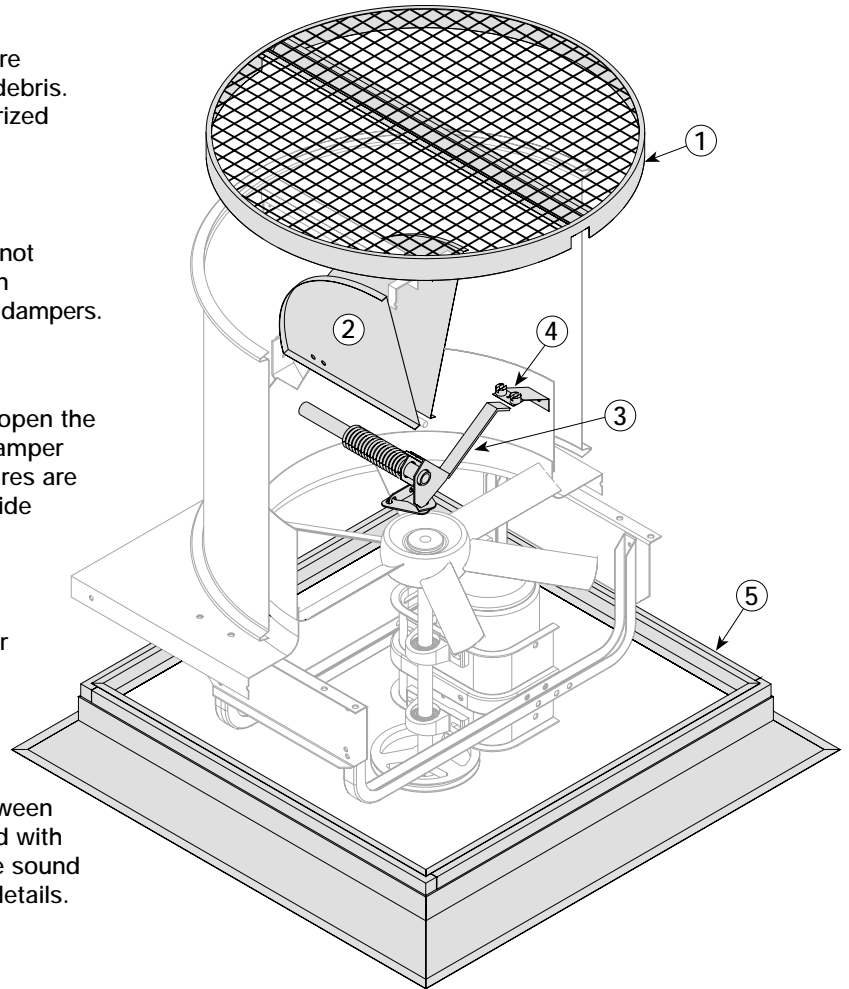
Fusible link damper lifters are available to automatically open the butterfly dampers when the air temperature below the damper blades exceeds 165°F. Fusible links for higher temperatures are also available. The damper blades are held open to provide smoke and heat relief with no electrical power required.

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

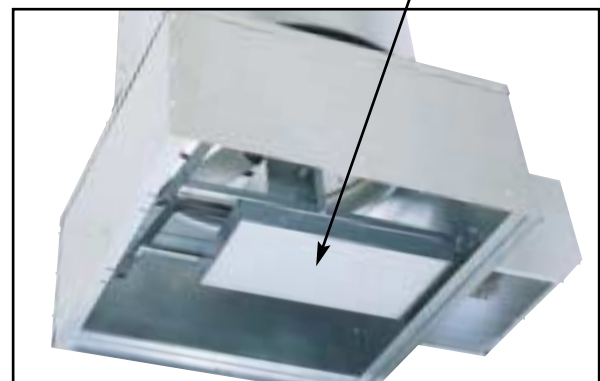
Motorized butterfly dampers are available for low CFM applications that insufficiently open the butterfly dampers, as with 2-speed motors at low speed. They also assure that the dampers are securely closed when the fan is not operating.

Painted Exteriors

Decorative paints are available in a variety of colors to match existing building fixtures. Protective coatings are offered to protect the fan from harsh atmospheres where galvanized steel is not sufficient. Consult your Greenheck representative for paint and coating selections.

Belt Cover

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	
		115 208 230 1ph	* 3ph	115 208 230 1ph	* 3ph	115 208 230 1ph	* 3ph	115 208 230 1ph	** 3ph
20-24	1/4	+	+	+	+	+	+	+	
20-30	1/3	+	+	+	+	+	+	+	
20-42	1/2	+	+	+	+	+	+	+	+
20-48	3/4	+	+	+	+	+	+	+	+
24-48	1	+	+	+	+	+	+	+	+
24-54	1 1/2	+	+	+	+	+	+	+	+
30-54	2	+	+	+	+	+	+	+	+
30-60	3	+	+	+	+	+	+	+	+
30-60	5	+ X	+	+ X	+	+	+	+	+
36-60	7 1/2		+		+		+		+
48-60	10		+		+		+		+
54-60	15		+		+		+		+

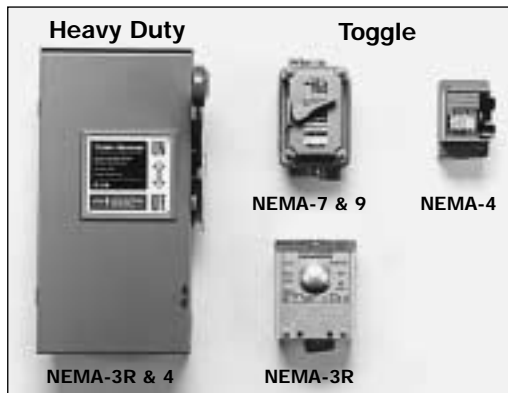
+ Indicates available motors X Motors only available in 208 or 230v.
 * 1 speed 3 phase motors avail. in 200 or 208-230/460. Motors 1/2 hp and larger are avail in 575v.
 ** 2 speed 3 phase specify 1 voltage only (200, 208, 230 or 460v). For 575v consult local representative.

50 Cycle Motors

Size	HP	Single Speed					
		Open		TE		Exp. Resist	
		1ph	3ph	1ph	3ph	1ph	3ph
20-24	1/4	+	+	+	+		+
20-30	1/3	+	+	+	+	+	+
20-42	1/2	+	+	+	+	+	+
20-48	3/4	+	+	+	+		+
24-48	1	+	+	+	+		+
30-54	1 1/2	+	+	+	+		+
30-60	2	+ X	+	+	+		+
30-60	3	+ X	+	+	+		+
36-60	5		+		+		+
48-60	7 1/2		+		+		+
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.

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.

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*
Air Flow Volume	CFM (ft ³ /min)	m ³ / sec	0.00047195
		m ³ / min	0.028317
		m ³ / hr	1.6990
		l / sec	0.47195
		l / min	28.317
Pressure	Inches WG	Pascals (Pa)	248.36
Power	HP	Watt	745.7
		Kilowatt (kW)	0.7457
Temperature	Fahrenheit (°F)	celsius (°C)	(°F - 32) (5/9)
Tip Speed & Velocity	ft/min	(m / sec)	0.00508
Fan Speed	rpm	rps	0.016
Dimensions	in.	mm	25.4
		cm	2.54
	ft.	m	.3048

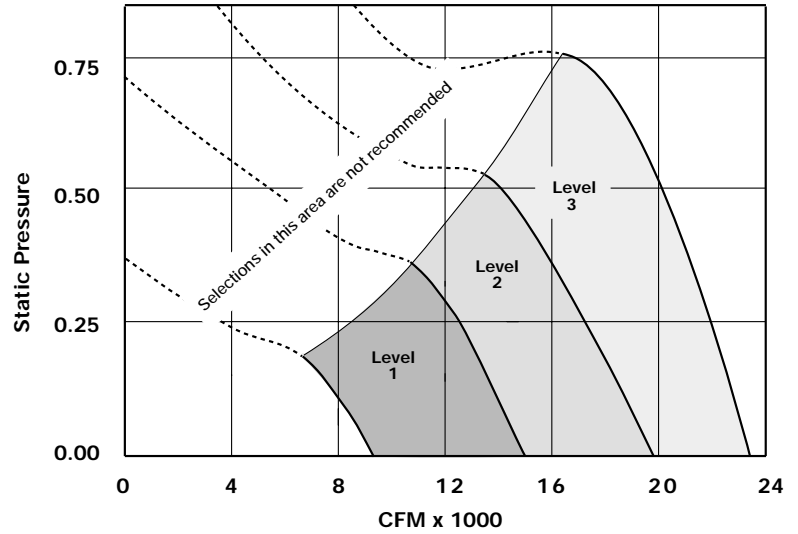
* To obtain metric units, multiply the english units by the conversion factor.
 Note: The Greenheck Computer Aided Product Selection program (CAPS) provides conversions for all of these metric and english units automatically.

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.

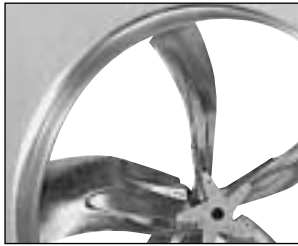
The performance based selection process is built right into the catalog tables and Greenheck's Computer Aided Product Selection (CAPS) program. Simply specify the CFM and static pressure. The optimal level of construction will be automatically selected.

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. static pressure, RBU-36 level 2 gives the most economical selection.

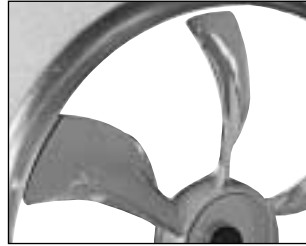


PROPELLER TYPES - Belt Drive

"L" TYPE CONSTRUCTION



Level 1&2



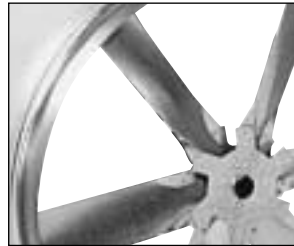
Level 3

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.

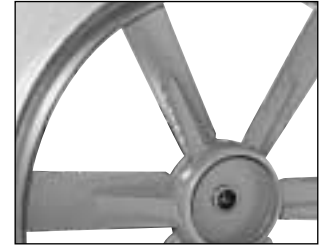
Motor Service Factor

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



Level 1&2



Level 3

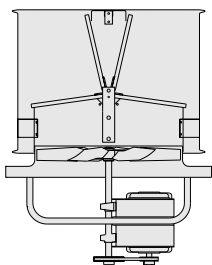
The "H" Type Propeller is a fabricated steel propeller (aluminum optional) with a straight, moderately pitched blade. It is designed for applications where static pressures cannot be met by the "L" propeller. These propellers typically run at higher RPMs and generate higher sound levels than the "L"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

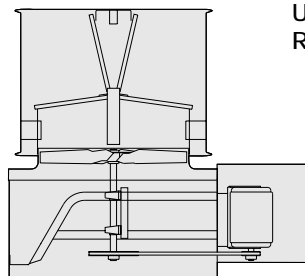
MODEL NUMBER CODE - Belt Drive

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

RBU
Motor in Airstream



RBUMO
Motor out of Airstream



RBU MO - 2 H 36 - 10

Upblast Propeller
Roof Fan

Motor Out of Airstream

Level of Construction 1, 2, 3

Propeller Type
L-Low
H-High

Fan Size

Motor Horsepower

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

Size 20

Belt Drive - Model RBU

Model Number	Motor HP	Fan RPM	Max BHp	* Sones	CFM / 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	
LEVEL 1 PERFORMANCE					Max RPM		L - 1084		H - 1443		Max Motor Frame Size - 56				TS = RPM x 5.236		
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					
LEVEL 2 PERFORMANCE					MAX RPM		L - 1241		H - 1652		Max Motor Frame Size - 145T				TS = RPM x 5.236		
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	CFM / 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	
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	4412	3100											
RBU-1L24-4	1/4	604	0.25	14	5076	4093	3768										
RBU-1L24-4	1/4	642	0.30	14.5	5396	4506	4204	3778									
RBU-1H24-4	1/4	750	0.16	10.4	4098	3460	3286	3084									
RBU-1H24-4	1/4	867	0.25	13.8	4737	4181	4047	3912	3569								
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					
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	0.9	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				
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	3024			
RBU-3H24-10	1	1372	1.00	26	7854	7491	7400	7301	7094	6888	6682	6375	5742	4603	3373		
RBU-3H24-10	1	1460	1.20	28	8358	8016	7931	7845	7653	7458	7264	6975	6435	5723	4403		

Performance shown is for Model RBU exhaust for installation type A: Free inlet, Free outlet. Power rating (BHp) does not include drive losses. Performance ratings do not include appurtenances in the airstream.

The sound ratings shown are loudness values in fan sones at 5 ft. (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 computerized selection program.

Size 30

Belt Drive - Model RBU

Model Number	Motor HP	Fan RPM	Max BHp	* Sones	CFM / 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	
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											
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	5818										
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				
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 - 184T					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

Performance shown is for Model RBU exhaust for installation type A: Free inlet, Free outlet. Power rating (BHp) does not include drive losses. Performance ratings do not include appurtenances in the airstream.
The sound ratings shown are loudness values in fan sones at 5 ft. (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 computerized selection program.

Size 36

Belt Drive - Model RBU

Model Number	Motor HP	Fan RPM	Max BHp	* Sones	CFM / 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	
LEVEL 1 PERFORMANCE					MAX RPM	L - 547	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	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	547	1.20	20	15252	13796	13325	12796	11743								
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 - 689	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-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

Performance shown is for Model RBU exhaust for installation type A: Free inlet, Free outlet. Power rating (BHp) does not include drive losses. Performance ratings do not include appurtenances in the airstream.

The sound ratings shown are loudness values in fan sones at 5 ft. (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 computerized selection program.

Size 20

Belt Drive - Model RBUMO

Model Number	Motor HP	Fan RPM	Max BHp	* Sones	CFM / 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			
LEVEL 1 PERFORMANCE					Max RPM	L - 1060	H - 1393	Max Motor Frame Size - 56					TS = RPM x 5.236						
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										
LEVEL 2 PERFORMANCE					MAX RPM	L - 1214	H - 1594	Max Motor Frame Size - 145T					TS = RPM x 5.236						
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	CFM / 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			
LEVEL 1 PERFORMANCE					MAX RPM	L - 771	H - 1259	Max Motor Frame Size - 56					TS = RPM x 6.283						
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-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						

Performance shown is for Model RBUMO exhaust for installation type A: Free inlet, Free outlet. Power rating (Bhp) does not include drive losses. Performance ratings do not include appurtenances in the airstream.
The sound ratings shown are loudness values in fan sones at 5 ft. (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 computerized selection program.

Size 30

Belt Drive - Model RBUMO

Model Number	Motor HP	Fan RPM	Max BHp	* Sones	CFM / 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
LEVEL 1 PERFORMANCE					MAX RPM		L - 673		H - 929		Max Motor Frame Size - 56				TS = RPM x 7.854	
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-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

Performance shown is for Model RBUMO exhaust for installation type A: Free inlet, Free outlet. Power rating (BHp) does not include drive losses. Performance ratings do not include appurtenances in the airstream.

The sound ratings shown are loudness values in fan sones at 5 ft. (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 computerized selection program.

Size 36

Belt Drive - Model RBUMO

Model Number	Motor HP	Fan RPM	Max BHp	* Sones	CFM / 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	
LEVEL 1 PERFORMANCE					MAX RPM	L - 530	H - 784	Max Motor Frame Size - 145T				TS = RPM x 9.424					
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-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 - 668	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-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

Performance shown is for Model RBU exhaust for installation type A: Free inlet, Free outlet. Power rating (BHp) does not include drive losses. Performance ratings do not include appurtenances in the airstream.
The sound ratings shown are loudness values in fan sones at 5 ft. (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 computerized selection program.

Size 42

Belt Drive - Model RBUMO

Model Number	Motor HP	Fan RPM	Max BHP	* Sones	CFM / 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				
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															
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										
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

Size 48

Belt Drive - Model RBUMO

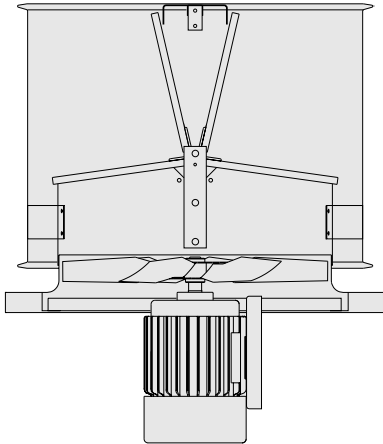
Model Number	Motor HP	Fan RPM	Max BHP	* Sones	CFM / Static Pressure in Inches of WG															
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750	1.000				
					CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM				
LEVEL 2 PERFORMANCE					MAX RPM L - 587				Max Motor Frame Size - 184T				TS = RPM x 12.566							
RBUMO-2L48-7	3/4	266	0.50	9.8	15752															
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											
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

Performance shown is for Model RBUMO exhaust for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include appurtenances in the airstream.

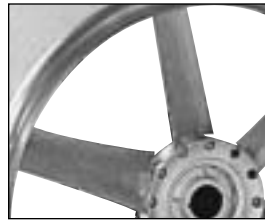
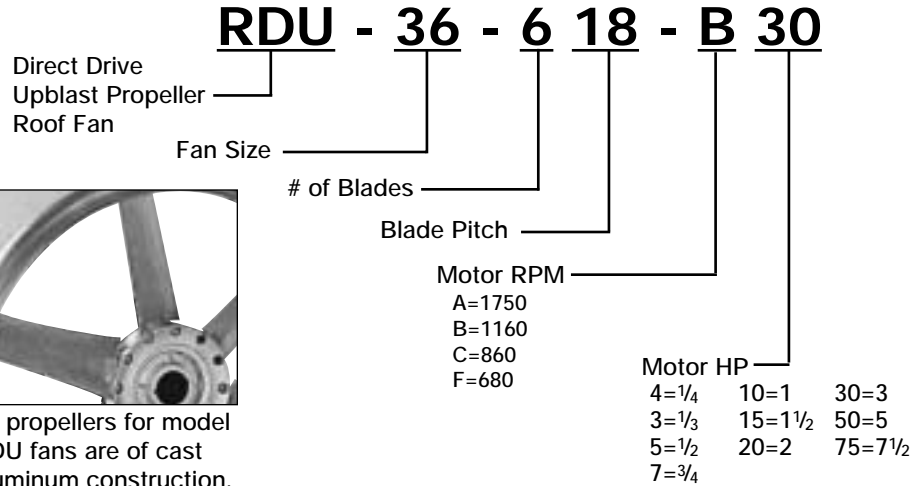
The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: free inlet fan sone levels. The AMCA Certified Ratings Sound Seal applies to sone ratings only.

*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 computerized selection program.



Direct Drive Model Number Code

The model number system 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	CFM / 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	
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			

Minimum CFM required to open dampers
Aluminum Dampers: 2750
Steel Dampers: 3520

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

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

Performance shown is for Model RDU exhaust for installation type A: Free inlet, Free outlet. Power rating (BHp) does not include drive losses. Performance ratings do not include appurtenances in the airstream.

The sound ratings shown are loudness values in fan sones at 5 ft. (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 computerized selection program.

MODEL RGU

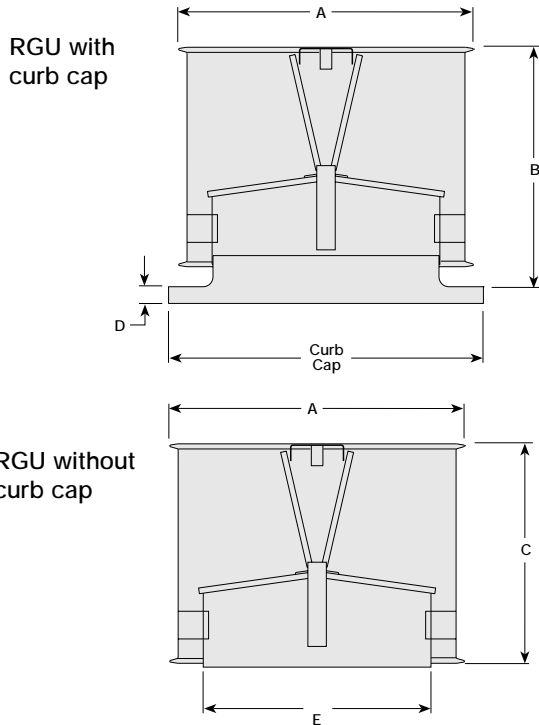
Nonpowered Gravity Upblast Ventilator

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.

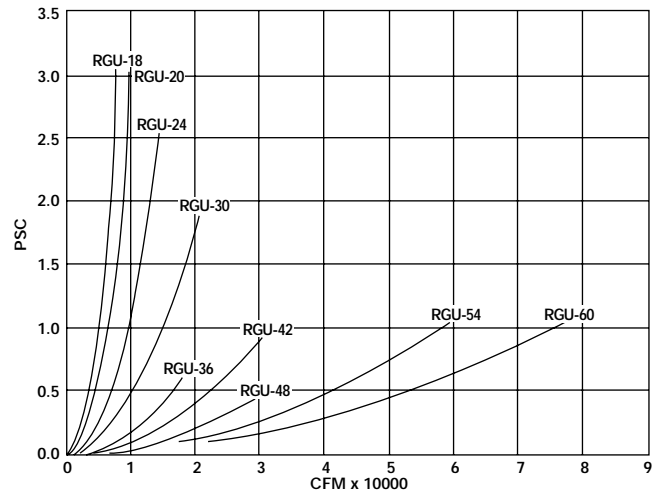
Fusible link damper lifters are available to allow Model RGU units to function as heat and smoke relief vents.



Model Size	A	B	C	D	E	Curb Cap	Recommended Roof Opening
18	28	22	21	1 ³ / ₄	18 ¹ / ₂	28	22
20	30	24	22	1 ³ / ₄	20 ¹ / ₂	30	24
24	34	26	24	1 ³ / ₄	24 ¹ / ₂	34	28
30	40	30	27	1 ³ / ₄	30 ⁵ / ₈	40	34
36	46	33	29	1 ³ / ₄	36 ⁵ / ₈	46	40
42	52	38	34	1 ³ / ₄	42 ³ / ₄	52	46
48	58	40	36	1 ³ / ₄	48 ¹ / ₂	58	52
54	63	45	40	1 ³ / ₄	55	66 ¹ / ₂	60
60	70	48	43	1 ³ / ₄	61	72 ¹ / ₂	66

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



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	140	215
24	20	16	24	0.040	18	14	3/4	56	156	245
30	20	16	24	0.040	18	11	3/4	56	205	285
36	20	16	20	0.051	18	11	3/4	145T	249	352

LEVEL 2 - Models RBU, RBUMO

Housing - Windbands are of galvanized steel. Curb cap galvanized through size 48. Size 54 curb cap uses paintable 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	149	225
24	20	16	24	0.040	18	14	3/4	145T	163	255
30	20	16	24	0.040	18	11	1	184T	223	310
36	20	16	20	0.051	18	11	1	184T	276	387
42	20	14	20	0.064	18	11	1 1/4	184T	365	450
48	20	14	20	0.064	18	11	1 1/4	184T	444	567
54	18	14	18	0.080	16	11	1 1/4	184T	647	751

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 paintable 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.

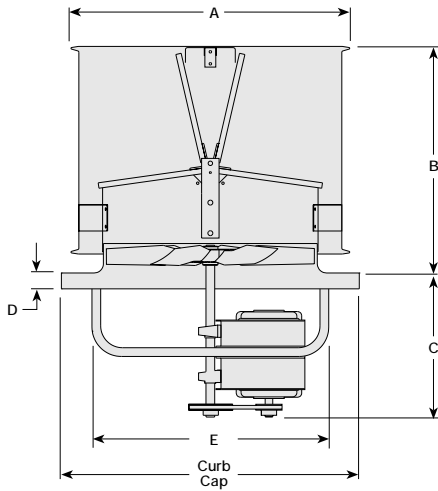
Bearings - Cast iron pillow blocks with grease fittings (on RBU and RBUMO).

Fan Size	Material Gauges					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)			Belt	Direct	Belt Drive	Direct Drive	RBU	RBUMO	RDU
			Galv.	Alum.										
18	20	18	24	0.040	-	-	12	-	-	56	-	-	105	
20	20	18	24	0.040	-	-	12	-	-	143T	-	-	120	
24	20	16	24	0.040	18	14	11	3/4	145T	182T	174	261	140	
30	20	16	24	0.040	18	11	11	1	184T	184T	256	355	170	
36	20	16	20	0.051	18	11	8	1 1/4	184T	215T	316	447	200	
42	20	14	20	0.064	18	11	8	1 1/2	215T	254T	435	510	275	
48	20	14	20	0.064	18	11	8	1 1/2	215T	256T	514	642	350	
54	18	14	18	0.080	16	11	-	1 1/2	254T	-	742	851	-	
60	18	14	18	0.080	16	11	-	1 3/4	256T	-	835	1005	-	

Typical for all levels of construction

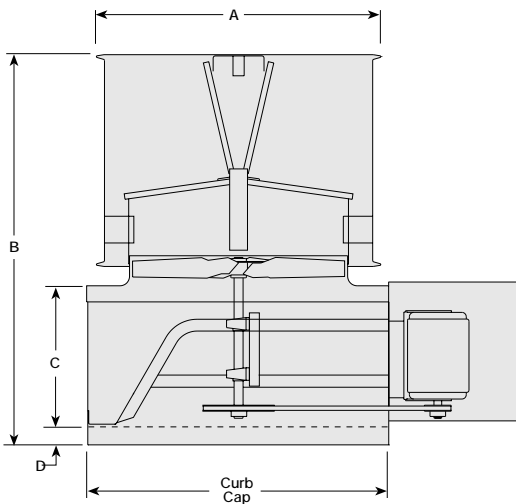
For Belt Drive Fans: • Fan shafts are precision turned, ground and polished steel. • Pillow block bearings are L(10) of 100,000 hour rated. • Motor plates are adjustable for belt tensioning. • Drives are sized for a minimum of 150% of driven HP. • Motor sheaves are adjustable for system balancing. •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

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



**Model RBU
Propeller Upblast - Belt Driven**

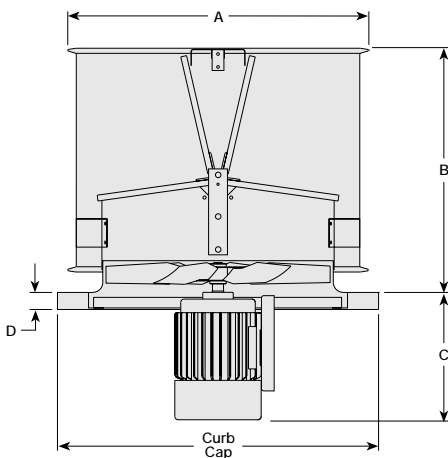
Model Size	A	B	C		D	E	Curb Cap I.D.	Recommended Roof Opening
			Level					
			1,2	3				
20	27 ¹ / ₄	24	15	-	13 ³ / ₄	23 ¹ / ₄	30	24
24	31 ¹ / ₈	26	15 ¹ / ₂	16 ³ / ₄	13 ³ / ₄	27 ³ / ₈	34	28
30	37 ³ / ₈	30	15 ¹ / ₂	16 ³ / ₄	13 ³ / ₄	34 ³ / ₄	40	34
36	43 ¹ / ₂	33	16 ³ / ₄	16 ³ / ₄	13 ³ / ₄	40 ⁷ / ₈	46	40
42	49 ⁵ / ₆	38	19 ³ / ₈	23 ⁷ / ₈	13 ³ / ₄	46 ³ / ₄	52	46
48	56	40	19 ³ / ₈	23 ⁷ / ₈	13 ³ / ₄	52 ³ / ₄	58	52
54	62 ⁵ / ₈	45	19 ¹ / ₄	26 ⁷ / ₈	13 ³ / ₄	61 ¹ / ₄	66 ¹ / ₂	60
60	68 ³ / ₄	48	21 ¹ / ₄	27	13 ³ / ₄	66 ¹ / ₄	72 ¹ / ₂	66



**Model RBUMO
Propeller Upblast - Belt Driven**

Model Size	A	B*	C	D	Curb Cap I.D.	Recommended Roof Opening
20	27 ¹ / ₄	43 ¹ / ₂	19 ³ / ₄	2 ¹ / ₄	29 ¹ / ₂	24
24	31 ¹ / ₈	45 ⁵ / ₆	17 ¹ / ₂	2 ¹ / ₄	33 ¹ / ₂	28
30	37 ³ / ₈	51 ³ / ₄	19 ¹ / ₂	2 ¹ / ₄	39 ¹ / ₂	34
36	43 ¹ / ₂	55	19 ¹ / ₂	2 ¹ / ₄	45 ¹ / ₂	40
42	49 ⁵ / ₆	59 ⁵ / ₈	19 ⁵ / ₈	2 ¹ / ₄	51 ¹ / ₂	46
48	56	63 ⁵ / ₆	21 ³ / ₄	2 ¹ / ₄	57 ¹ / ₂	52
54	62 ⁵ / ₈	70 ⁵ / ₈	22 ³ / ₄	2 ¹ / ₄	66	60
60	68 ³ / ₄	75	23	2 ¹ / ₄	72	66

NOTE: *Sizes greater than 36 with High Temp Option will be 8 inches larger.



**Model RDU
Propeller Upblast - Direct Driven**

Model Size	A	B	C	D	Curb Cap I.D.	Recommended Roof Opening
18	25	22	8 ³ / ₅	13 ³ / ₄	28	22
20	27 ¹ / ₄	24	9 ³ / ₄	13 ³ / ₄	30	24
24	31 ¹ / ₈	26	13 ¹ / ₂	13 ³ / ₄	34	28
30	37 ³ / ₈	30	13 ¹ / ₈	13 ³ / ₄	40	34
36	43 ¹ / ₂	33	12 ¹⁵ / ₁₆	13 ³ / ₄	46	40
42	49 ⁵ / ₆	38	18 ¹ / ₂	13 ³ / ₄	52	46
48	56	40	18 ¹ / ₂	13 ³ / ₄	58	52

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 permanently lubricated, 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 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 air for a minimum of 4 hours** and the SBCCI "Standard Fire Prevention Code" requirements of **1000°F 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 - U.L. LISTED**

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 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, 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 permanently lubricated, 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, in Schofield, Wisconsin.

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.

Due to continuing research, Greenheck reserves the right to change specifications without notice.



Number one in air movement and control.



Centrifugal and Vane Axial Fans



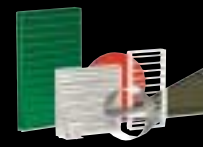
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