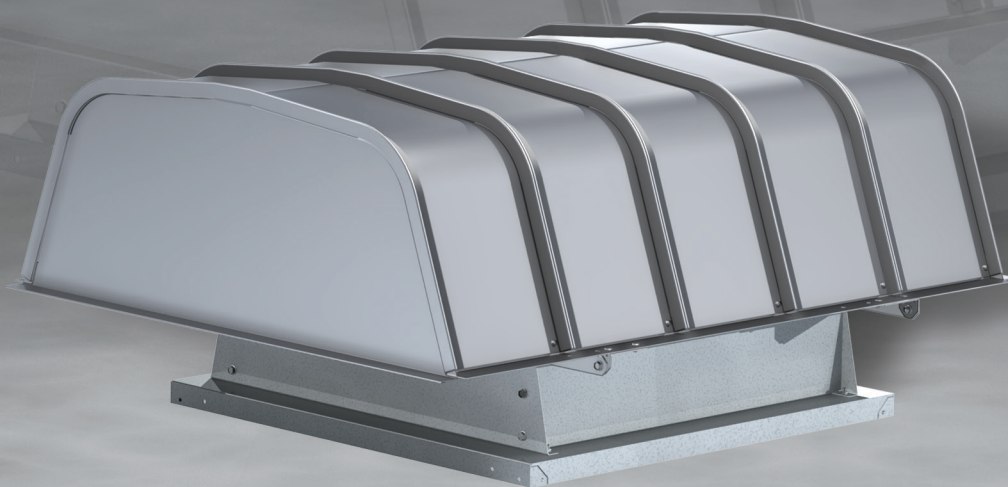


Centrifugal Roof Exhaust Fans Model LB

Low Silhouette Belt Drive



BUILDING VALUE IN AIR.



July
2023

Model LB is a belt drive, fabra hood-style fan, designed for roof mounting in clean air exhaust applications, where height and aesthetics are a concern. The units feature a backward-inclined wheel, with a low silhouette housing.

SIZES

- Belt drive sizes from 14 - 33

PERFORMANCE

- Up to 37,500 cfm
- Up to 2.125 in. wg of static pressure

BENEFITS

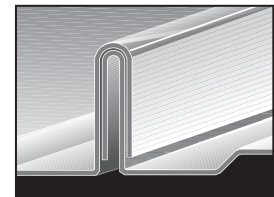
- Quick motor and drive access
- Excellent weather resistance
- Certified for severe duty applications

TYPICAL INSTALLATION

- Educational Facilities
- Warehouses
- Office Buildings
- Shopping Centers

- **Hinged Hood** - All sizes feature a hood which may be hinged to provide quick access to the motor and drive assembly. Access may be gained by simply removing two of the four hood fasteners or all fasteners for complete removal.
- **Large Interior Dimensions** - All sizes allow complete accessibility. Interior dimensions offer clearance for inspection, cleaning, or maintenance of the motor, wheel, belt(s), and drives.
- **Strength & Weather Resistance** - The hood is designed with arched panels manufactured of heavy-gauge, precision roll formed steel with interlocking edges. Each interlocking rib creates a tight, weather-resistant seal. Heavy-gauge steel support members provide structural strength.

- Greenheck's interlocking rib design combines four material thicknesses with I-beam design principles producing a hood far superior in strength to conventional designs (an important feature in high wind and snow load regions).



Formed channels adjacent to the ribs provide water drainage to ensure weather tightness.

Hoods are available in galvanized steel, coated steel, or aluminum construction.



PRODUCT CERTIFICATIONS

Greenheck takes pride in offering a high-quality, reliable product. We invest our resources into designing, testing and manufacturing products to ensure customer satisfaction.



UL/cUL 705
Listed for Electrical
File no. E40001

UL electrical is optional and must be specified



Greenheck Fan Corporation certifies the model LB 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.



MODEL LB



Housing Construction

A rib-lock galvanized fabra hood style housing. Hood panels are interlocked and attached to sturdy galvanized rails. (Aluminum hood panels are optional.)

Hinged Access

The entire hood assembly can be hinged open for access to the internal fan components.

Drive Frame

Constructed from heavy-gauge galvanized steel.

Motor

All motors are carefully matched to the fan load to provide years of trouble-free operation.

Wheel

An aluminum, backward inclined, non-overloading, centrifugal wheel is utilized to deliver maximum efficiency. Each wheel is statically and dynamically balanced.

Fan Shaft

Fan shafts are precisely sized, ground and polished so the first critical speed is at least 25 percent over the maximum operating speed. Close tolerances where the shaft makes contact with bearings result in longer bearing life.

Bearings

100 percent factory-tested bearings are designed specifically for air handling applications with a minimum L10 life in excess of 100,000 hours (L50 average life in excess of 500,000 hours).

Drive Assembly

Drives are sized for a minimum of 150 percent of driven horsepower. Machined cast iron pulleys are factory set to the required RPM and adjustable for final system balancing. Belts are static free and oil resistant. Belt adjustment is accomplished by loosening fasteners, sliding the motor plate and retightening fasteners.

Curb Cap

Curb cap has prepunched mounting holes to ensure correct attachment to the curb.

Vibration Isolators

Support the drive assembly and wheel without steel to steel contact providing long life and quiet operation.

Birdscreen

Galvanized rigid wire protects the fan's discharge from birds or small objects. (Aluminum birdscreen is optional).

Windband

Lower windband assembly ensures weathertight and rigid unit construction.

Disconnect Switch

A NEMA-1 disconnect switch is provided as standard. All wiring and electrical components comply with the National Electric Codes and materials are UL Listed. Other NEMA enclosure disconnect switches are optional.

Conduit Chase

A large diameter conduit for installing electrical wiring through the curb cap into the motor compartment. (Not shown)

Birdscreen

Galvanized mesh is standard. Optional aluminum or stainless steel rigid wire are also available.

Hood Insulation

Hood insulation is dual-density to minimize condensation, reduce thermal transfer, and enhance sound absorption at high and low frequencies.

Lifting Lugs

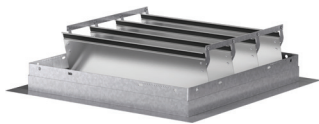
Four heavy-gauge steel brackets are available to provide lifting points when raising the fan to the roof.

Tie-Down Points

Four heavy-gauge steel brackets are available to secure the fan in heavy wind applications. Cables and anchors by others.

Dampers

Designed to prevent outside air from entering back into the building when fan is off. Options include gravity and motorized dampers. Damper sizes are shown on each performance data page.



Curb Seal

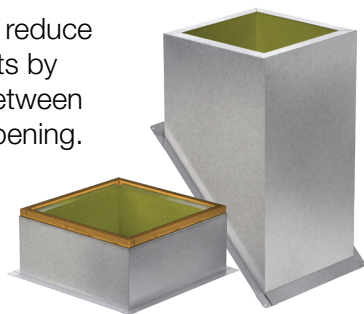
Rubber seal between fan and curb to ensure proper sealing when attached to a curb.

Disconnect Switches

A wide selection of NEMA rated switches are available for positive electrical shutoff and safety, including: dust-tight, rainproof, and corrosion-resistant. Switches may be internally or externally mounted.

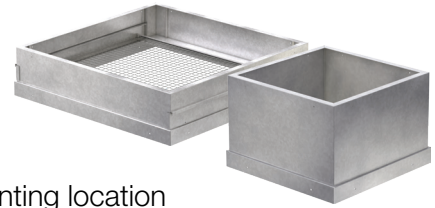
Roof Curbs

Prefabricated roof curbs reduce installation time and costs by ensuring compatibility between the fan, curb and roof opening. All curbs are insulated with fiberglass. A wide variety of roof curbs are available including flanged, pitched and sound-absorbing.



Curb Extensions

Extensions raise the fan discharge above the roof line and provide an accessible mounting location for dampers. Insect screen bases constructed with a removable fine mesh are recommended for applications where insect entry must be prevented.



Motor Starters

The fundamental function of a motor starter is to protect the motor from damage that can occur from overheating. With a Greenheck motor starter, you will be provided with the best motor protection available.

Specific model components may include: physical interface, overload protection, disconnect, magnetic contactor, NEMA-1 or NEMA-3R steel enclosures and pre-engineered easy system integration. For complete information on specific Greenheck Motor Starter models refer to greenheck.com, Products, Motor Starter page.



Coatings

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



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



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





MODEL NUMBER CODE

The model number system is designed to completely identify the fan. The correct code letters must be specified to designate belt drive. The remainder of the model number is determined by the size and performance.

Model Configuration
Fabra Hood Belt Drive

Fan Size
14 through 54

LB - 30 - 7

Motor hp

6 = 1/6	10 = 1	50 = 5
4 = 1/4	15 = 1-1/2	75 = 7-1/2
3 = 1/3	20 = 2	100 = 10
5 = 1/2	30 = 3	150 = 15
7 = 3/4		

TYPICAL INSTALLATION

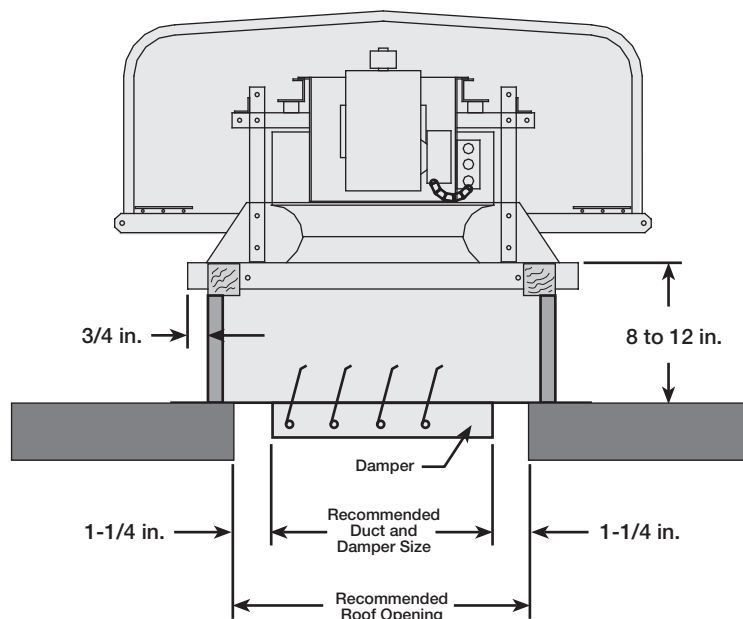
Model LB exhaust fans are designed to meet the needs of general clean air applications. Tests have been conducted to ensure safe and reliable fans capable of withstanding normal exhaust conditions.

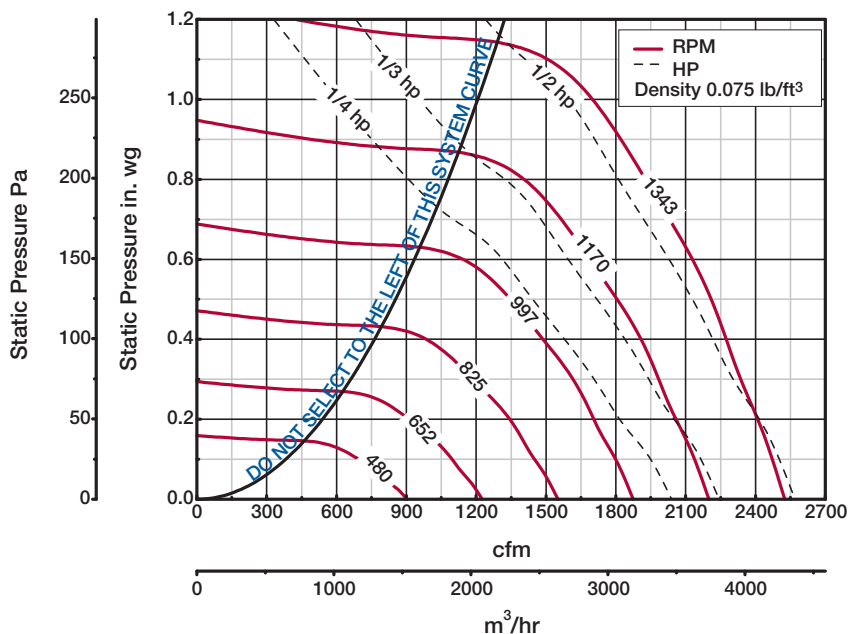
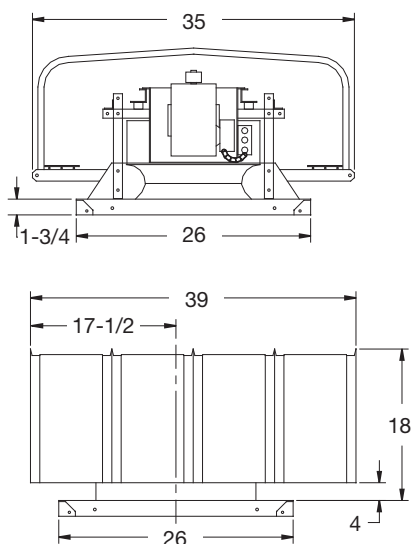
When roofing materials extend to the top of the curb, roof curbs should be 1-1/2 in. (3/4 in. on a side) less than the unit curb cap to allow for roofing and flashing.

For recommended duct size, damper size, and roof opening dimensions, refer to CAPS® or the performance data pages.

Installation must include a means for inspecting, cleaning, and servicing the exhaust fan.

Due to the varying airstreams encountered in commercial ventilation, system designers must be aware of national, state, and local codes and guidelines governing these installations. Local code authorities should be consulted before proceeding with any ventilation project.



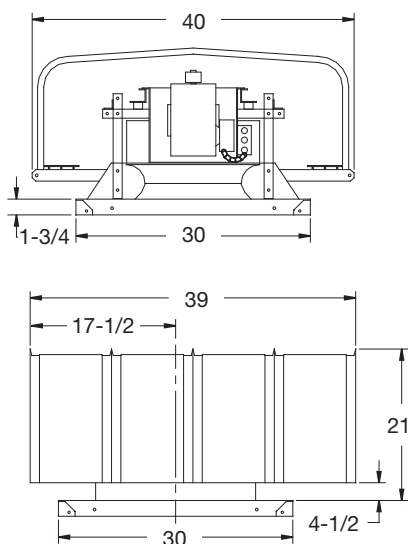


Hood Thickness = 22 ga
Curb Cap Thickness = 0.064
Damper Size = 16 x 16
Roof Opening = 18-1/2 x 18-1/2
Approximate Fan Weight* = 81

All dimensions in inches and weight is shown in pounds.
*Weight shown is the largest cataloged open drip proof motor.

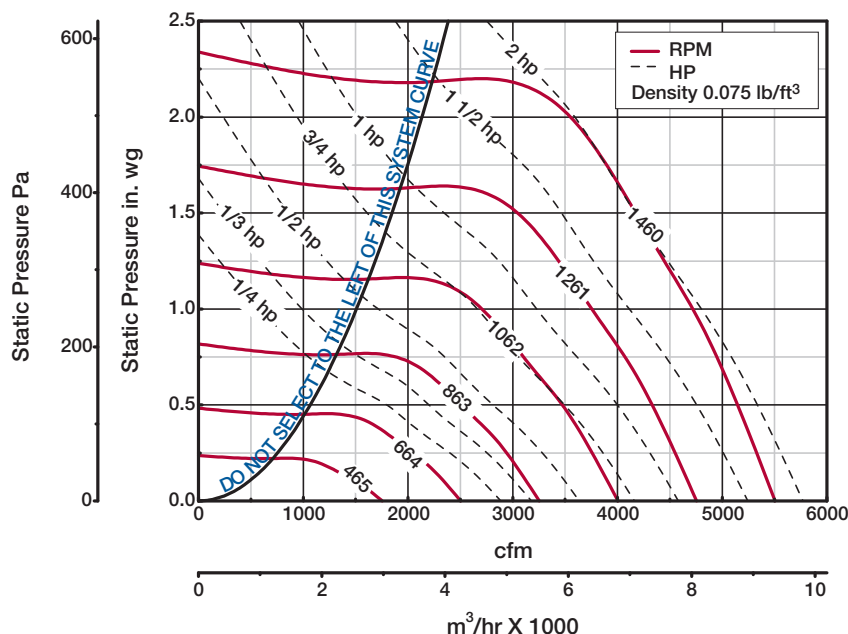
Model Number	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.125
LB-14-4	1/4	480	CFM	903	614								
			BHP	0.022	0.025								
			Sones	4.1	3.2								
		564	CFM	1061	848								
			BHP	0.035	0.041								
			Sones	4.7	4.2								
		731	CFM	1375	1231	1024							
			BHP	0.077	0.086	0.089							
			Sones	5.9	5.6	5.1							
		815	CFM	1533	1402	1241	1013						
			BHP	0.11	0.12	0.12	0.12						
			Sones	6.7	6.4	5.9	5.4						
LB-14-3	1/3	899	CFM	1690	1574	1439	1264	946					
			BHP	0.14	0.15	0.16	0.17	0.15					
			Sones	7.5	7.3	6.9	6.4	5.7					
		982	CFM	1847	1743	1629	1482	1297					
			BHP	0.19	0.2	0.21	0.21	0.21					
			Sones	8.5	8.4	8	7.5	7					
		1066	CFM	2004	1912	1807	1681	1534	1351				
			BHP	0.24	0.25	0.26	0.27	0.28	0.27				
			Sones	9.8	9.7	9.4	8.9	8.4	7.8				
		1118	CFM	2102	2016	1913	1801	1672	1512	1257			
			BHP	0.27	0.28	0.3	0.31	0.32	0.32	0.3			
			Sones	10.7	10.6	10.3	9.8	9.3	8.7	8.1			
LB-14-5	1/2	1170	CFM	2200	2120	2019	1920	1797	1657	1487			
			BHP	0.31	0.32	0.34	0.36	0.36	0.36	0.36			
			Sones	11.5	11.3	11.1	10.6	10.1	9.5	9.0			
		1257	CFM	2364	2290	2197	2112	2002	1887	1748	1585		
			BHP	0.39	0.4	0.42	0.44	0.44	0.45	0.45	0.44		
			Sones	12.9	12.7	12.5	12.1	11.6	11.1	10.5	10.1		
		1343	CFM	2525	2456	2372	2289	2199	2092	1979	1848	1692	1386
			BHP	0.47	0.49	0.51	0.53	0.54	0.55	0.55	0.55	0.54	0.51
			Sones	14.4	14.1	13.8	13.5	13.1	12.6	12.2	11.6	11.1	10.4

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



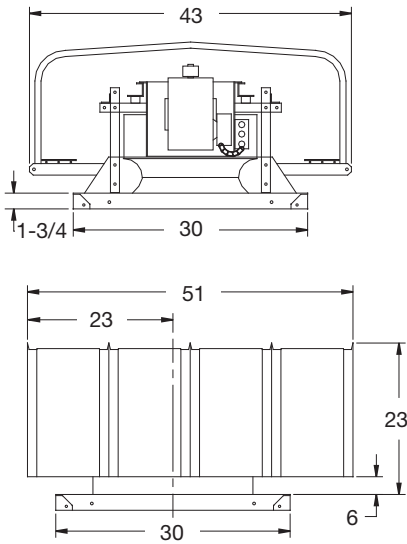
Hood Thickness = 22 ga
Curb Cap Thickness = 0.064
Damper Size = 18 x 18
Roof Opening = 20-1/2 x 20-1/2
Approximate Fan Weight* = 135

All dimensions in inches and weight is shown in pounds.
*Weight shown is the largest cataloged open drip proof motor.



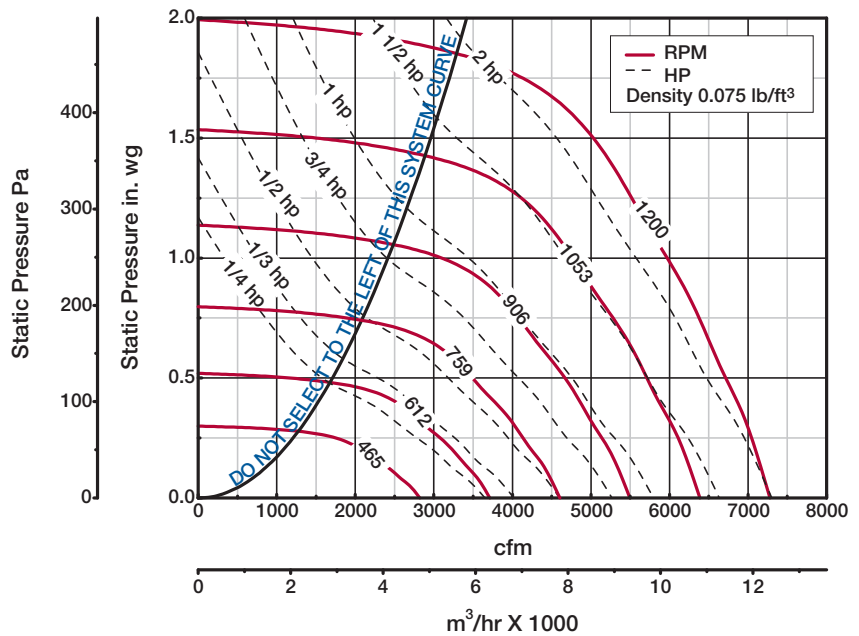
Model Number	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.125	0.25	0.5	0.75	1	1.25	1.5	1.75	2
LB-18-4	1/4	465	CFM	1753	1422								
			BHP	0.056	0.064								
			Sones	3.6	2.7								
		562	CFM	2119	1871	1522							
			BHP	0.099	0.108	0.114							
			Sones	4.9	4.1	3.4							
		755	CFM	2847	2671	2474	1925						
			BHP	0.24	0.25	0.27	0.27						
			Sones	8.7	7.9	7.4	6.5						
LB-18-3	1/3	826	CFM	3115	2957	2778	2324						
			BHP	0.31	0.33	0.34	0.36						
			Sones	10.2	9.5	8.9	8.0						
LB-18-5	1/2	888	CFM	3348	3203	3039	2638	2110					
			BHP	0.39	0.4	0.42	0.45	0.44					
			Sones	11.7	11.0	10.4	9.4	8.7					
		949	CFM	3578	3442	3292	2936	2498					
			BHP	0.48	0.49	0.51	0.54	0.55					
			Sones	13.4	13.0	12.0	11.0	10.3					
LB-18-7	3/4	1085	CFM	4091	3972	3847	3575	3218	2822				
			BHP	0.71	0.73	0.75	0.79	0.82	0.82				
			Sones	16.8	16.2	15.5	14.6	13.4	12.9				
LB-18-10	1	1141	CFM	4302	4189	4073	3814	3493	3140	2674			
			BHP	0.83	0.84	0.86	0.91	0.94	0.96	0.93			
			Sones	18.0	17.3	16.7	15.9	14.8	14.1	13.8			
LB-18-15	1-1/2	1286	CFM	4849	4749	4648	4423	4183	3880	3568	3208		
			BHP	1.19	1.2	1.22	1.27	1.32	1.35	1.37	1.35		
			Sones	21	20	19.8	19.2	18.5	17.8	17.4	17.1		
		1375	CFM	5185	5091	4997	4790	4576	4311	4025	3719	3382	
			BHP	1.45	1.47	1.49	1.54	1.59	1.63	1.66	1.67	1.65	
			Sones	24	23	22	21	20	19.9	19.6	19.5		
LB-18-20	2	1460	CFM	5505	5417	5328	5138	4936	4714	4446	4176	3874	3538
			BHP	1.73	1.76	1.78	1.83	1.88	1.93	1.98	2	2	1.97
			Sones	26	25	24	23	23	22	22	22	22	22

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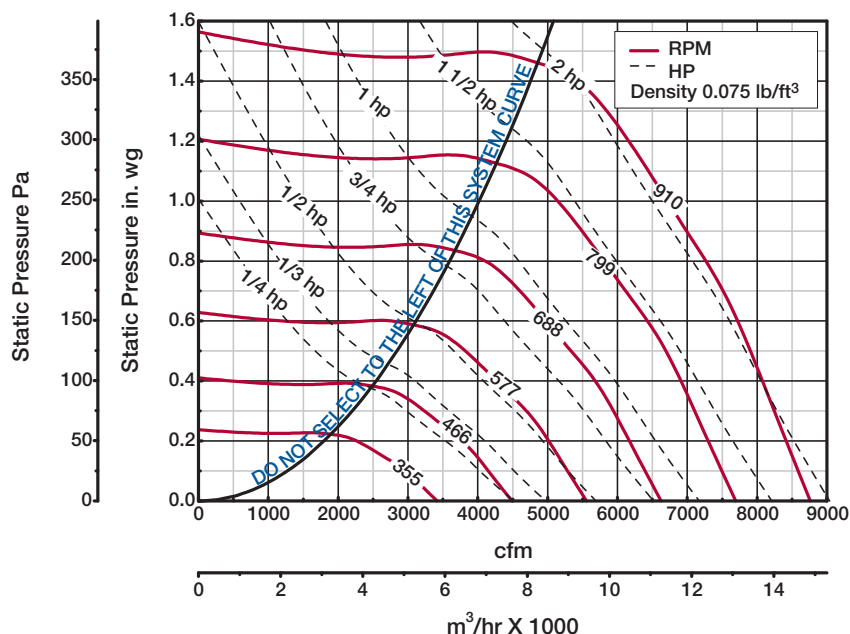
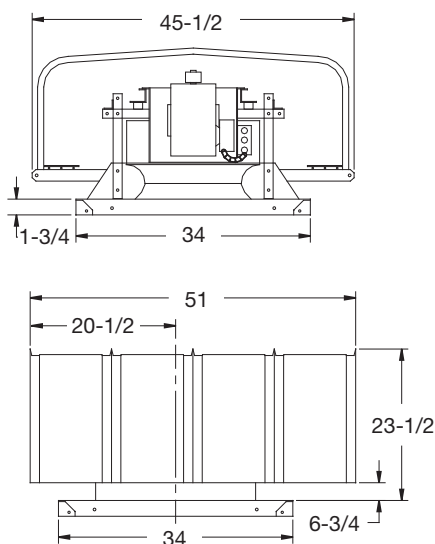
Hood Thickness = 22 ga
Curb Cap Thickness = 0.064
Damper Size = 18 x 18
Roof Opening = 20-1/2 x 20-1/2
Approximate Fan Weight* = 145

All dimensions in inches and weight is shown in pounds.
*Weight shown is the largest cataloged open drip proof motor.



Model Number	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.25	0.375	0.5	0.625	0.75	1	1.25	1.5	1.75
LB-21-4	1/4	465	CFM	2820	1732								
			BHP	0.12	0.13								
			Sones	6.6	5.2								
		595	CFM	3609	2938	2457							
			BHP	0.24	0.28	0.28							
			Sones	8.8	7.8	6.9							
LB-21-3	1/3	651	CFM	3948	3371	2970	2354						
			BHP	0.32	0.36	0.36	0.34						
			Sones	10.1	8.8	8.2	6.9						
LB-21-5	1/2	699	CFM	4239	3724	3362	2954	1964					
			BHP	0.39	0.44	0.45	0.45	0.38					
			Sones	11.6	9.9	9.3	8.6	7.1					
		747	CFM	4531	4056	3741	3390	2909					
			BHP	0.48	0.53	0.54	0.55	0.53					
			Sones	13.4	11.2	10.4	9.8	9.1					
LB-21-7	3/4	801	CFM	4858	4424	4157	3833	3491	2937				
			BHP	0.59	0.65	0.66	0.67	0.68	0.64				
			Sones	15.5	12.9	11.8	11.3	10.8	10.1				
		855	CFM	5186	4790	4553	4261	3954	3608				
			BHP	0.72	0.79	0.8	0.81	0.82	0.82				
			Sones	16.7	14.4	13.3	12.8	12.1	11.5				
LB-21-10	1	899	CFM	5452	5087	4858	4602	4313	4019	2894			
			BHP	0.83	0.91	0.93	0.94	0.95	0.96	0.86			
			Sones	17.1	15.4	14.5	13.9	13.4	12.7	11.7			
LB-21-15	1 1/2	1010	CFM	6126	5826	5614	5415	5183	4926	4386	3369		
			BHP	1.18	1.26	1.3	1.32	1.34	1.35	1.36	1.24		
			Sones	20	18.9	18.1	17.3	16.6	16.2	15.0	14.0		
		1077	CFM	6532	6260	6068	5877	5691	5451	4965	4395		
			BHP	1.43	1.52	1.56	1.59	1.61	1.62	1.65	1.63		
			Sones	22	21	20	19.4	18.8	18.2	17.3	16.4		
LB-21-20	2	1200	CFM	7278	7034	6890	6712	6542	6375	5954	5517	5013	4122
			BHP	1.98	2.07	2.12	2.18	2.2	2.22	2.25	2.28	2.26	2.11
			Sones	26	25	25	24	23	23	22	21	20	18.5

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

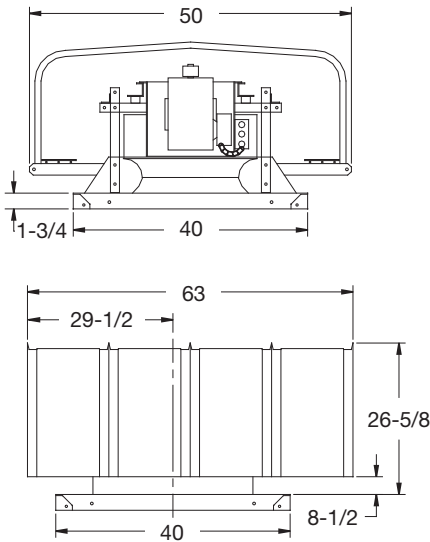


Hood Thickness = 22 ga
Curb Cap Thickness = 0.064
Damper Size = 24 x 24
Roof Opening = 26-1/2 x 26-1/2
Approximate Fan Weight* = 188

All dimensions in inches and weight is shown in pounds.
*Weight shown is the largest cataloged open drip proof motor.

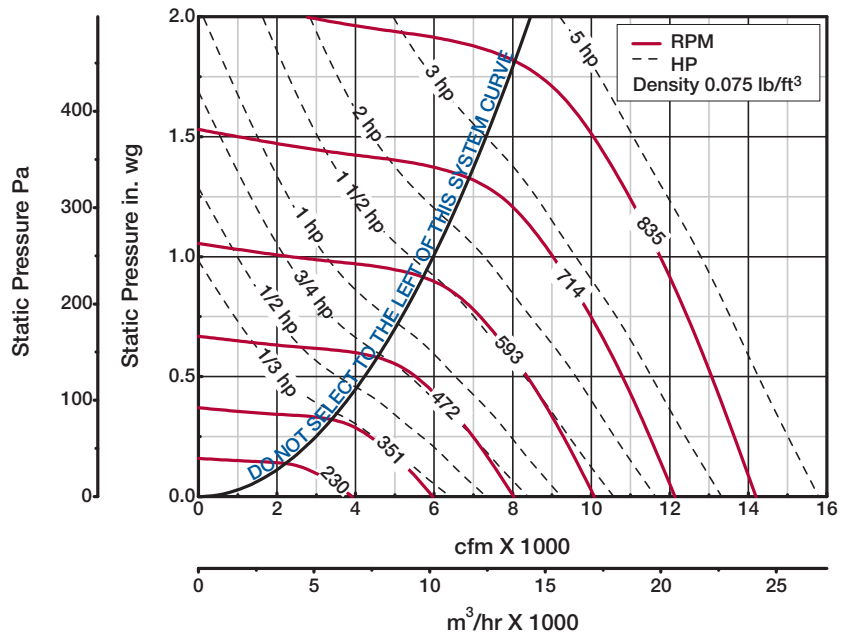
Model Number	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.25	0.375	0.5	0.625	0.75	0.875	1	1.25	1.375
LB-24-4	1/4	355	CFM	3419									
			BHP	0.11									
			Sones	5.8									
		409	CFM	3938	2715								
			BHP	0.17	0.19								
			Sones	6.3	5.1								
		462	CFM	4449	3451	2491							
			BHP	0.24	0.28	0.25							
			Sones	7.4	6.3	5.3							
LB-24-3	1/3	508	CFM	4892	4043	3433							
			BHP	0.32	0.36	0.36							
			Sones	8.5	7.4	6.8							
LB-24-5	1/2	582	CFM	5604	4917	4441	3899						
			BHP	0.48	0.54	0.55	0.55						
			Sones	10.7	9.4	8.9	8.4						
LB-24-7	3/4	625	CFM	6018	5381	4988	4497	3929					
			BHP	0.59	0.66	0.68	0.68	0.66					
			Sones	12.4	11.0	10.3	10.0	9.5					
		667	CFM	6423	5828	5505	5062	4589	3984				
			BHP	0.72	0.8	0.82	0.83	0.83	0.79				
			Sones	14.1	12.7	12.0	11.5	11.1	10.9				
LB-24-10	1	734	CFM	7068	6531	6252	5912	5503	5073	4555			
			BHP	0.96	1.05	1.08	1.1	1.1	1.1	1.07			
			Sones	17.0	15.3	14.6	13.9	13.5	13.2	12.9			
LB-24-15	1 1/2	787	CFM	7578	7080	6820	6560	6190	5799	5398	4909		
			BHP	1.18	1.29	1.32	1.35	1.36	1.36	1.36	1.32		
			Sones	19.6	17.4	16.5	15.9	15.4	15.0	14.8	14.1		
LB-24-20	2	868	CFM	8358	7907	7675	7440	7192	6855	6505	6141	5285	
			BHP	1.58	1.7	1.74	1.78	1.81	1.82	1.83	1.82	1.76	
			Sones	24	21	20	19.4	18.9	18.3	17.9	17.6	16.0	
		910	CFM	8763	8333	8114	7889	7664	7377	7056	6713	5995	5537
			BHP	1.82	1.95	2	2.04	2.07	2.09	2.1	2.1	2.08	2.03
			Sones	27	24	23	21	21	20	19.8	19.5	18.4	17.2

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



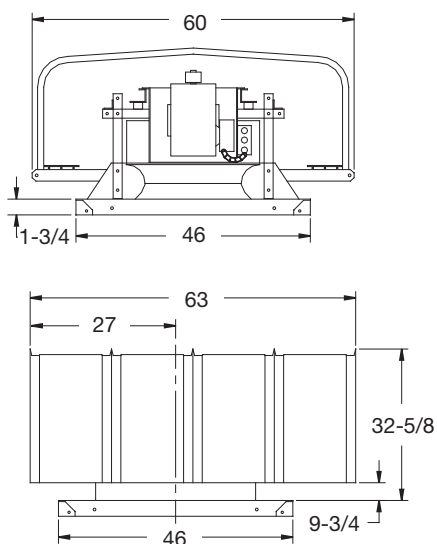
Hood Thickness = 22 ga
Curb Cap Thickness = 0.064
Damper Size = 30 x 30
Roof Opening = 32-1/2 x 32-1/2
Approximate Fan Weight* = 249

All dimensions in inches and weight is shown in pounds.
*Weight shown is the largest cataloged open drip proof motor.



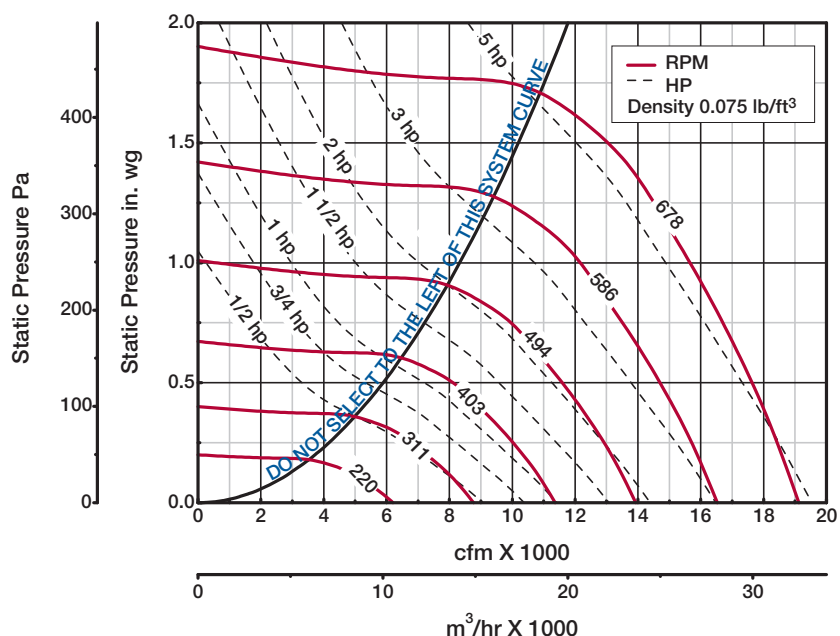
Model Number	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.25	0.375	0.5	0.625	0.75	1	1.25	1.5	1.75
LB-30-3	1/3	230	CFM	3910									
			BHP	0.076									
			Sones	8.0									
		366	CFM	6221	4729								
			BHP	0.31	0.37								
			Sones	8.7	5.9								
LB-30-5	1/2	394	CFM	6697	5354	4290							
			BHP	0.38	0.45	0.44							
			Sones	9.0	6.5	6.0							
		421	CFM	7156	5939	5076							
			BHP	0.47	0.54	0.55							
			Sones	9.7	7.4	6.7							
LB-30-7	3/4	483	CFM	8210	7196	6567	5777						
			BHP	0.7	0.8	0.83	0.83						
			Sones	12.0	10.7	9.7	8.8						
LB-30-10	1	529	CFM	8992	8079	7559	6946	6162					
			BHP	0.92	1.04	1.07	1.1	1.09					
			Sones	13.8	12.9	12.1	11.4	10.3					
LB-30-15	1 1/2	567	CFM	9638	8797	8334	7786	7174	6410				
			BHP	1.14	1.27	1.31	1.34	1.36	1.33				
			Sones	15.3	14.2	13.6	13.0	12.3	11.2				
		605	CFM	10284	9507	9073	8605	8068	7434				
			BHP	1.38	1.53	1.57	1.61	1.64	1.64				
			Sones	16.8	15.7	15.2	14.6	14.1	13.3				
LB-30-20	2	667	CFM	11338	10639	10257	9863	9419	8933	7737			
			BHP	1.85	2.02	2.07	2.12	2.16	2.19	2.17			
			Sones	19.8	18.6	17.9	17.5	17.1	16.6	14.9			
LB-30-30	3	703	CFM	11950	11287	10935	10562	10184	9722	8701	7032		
			BHP	2.17	2.34	2.41	2.46	2.51	2.54	2.57	2.41		
			Sones	22	20	19.5	19.1	18.7	18.3	17.0	14.2		
LB-30-50	5	835	CFM	14194	13635	13356	13062	12747	12432	11728	10951	9965	8478
			BHP	3.63	3.84	3.95	4.03	4.09	4.14	4.24	4.33	4.29	4.06
			Sones	27	26	25	25	24	24	23	22	21	18.2

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



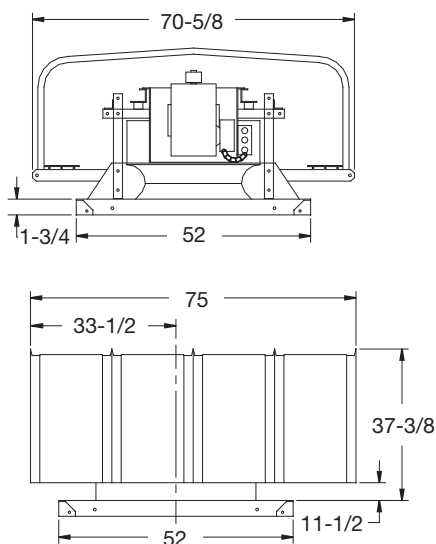
Hood Thickness = 22 ga
Curb Cap Thickness = 0.064
Damper Size = 36 x 36
Roof Opening = 38-1/2 x 38-1/2
Approximate Fan Weight* = 338

All dimensions in inches and weight is shown in pounds.
*Weight shown is the largest cataloged open drip proof motor.



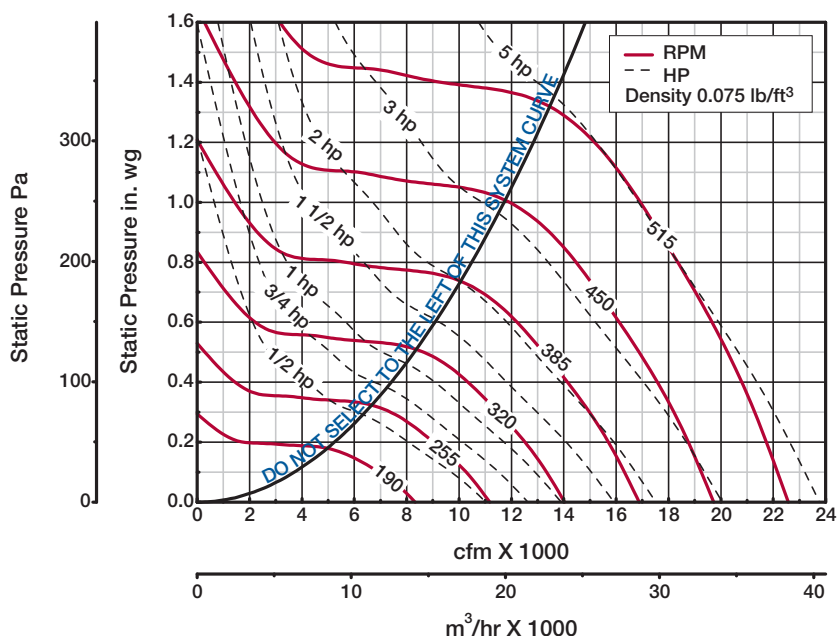
Model Number	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.25	0.375	0.5	0.625	0.75	0.875	1	1.25	1.5
LB-36-5	1/2	220	CFM	6204									
			BHP	0.16									
			Sones	4.9									
		315	CFM	8884	6937								
			BHP	0.47	0.55								
			Sones	8.2	6.3								
LB-36-7	3/4	360	CFM	10153	8570	7487							
			BHP	0.7	0.81	0.83							
			Sones	10.6	8.9	7.9							
LB-36-10	1	397	CFM	11196	9816	8911	7775						
			BHP	0.94	1.08	1.1	1.1						
			Sones	13.7	12.1	10.6	9.4						
LB-36-15	1 1/2	426	CFM	12014	10765	9964	9056	7716					
			BHP	1.16	1.32	1.35	1.37	1.34					
			Sones	14.8	14.0	12.7	11.6	10.1					
		454	CFM	12804	11668	10949	10127	9209	7552				
			BHP	1.41	1.58	1.63	1.65	1.66	1.57				
			Sones	16.0	15.4	14.5	13.7	12.5	11.0				
LB-36-20	2	499	CFM	14073	13064	12442	11760	11004	10173	8773			
			BHP	1.87	2.06	2.13	2.17	2.2	2.2	2.12			
			Sones	18.2	17.6	17.2	16.6	16.1	15.1	13.9			
LB-36-30	3	536	CFM	15116	14196	13646	13037	12361	11652	10837	9559		
			BHP	2.31	2.52	2.61	2.67	2.7	2.73	2.72	2.65		
			Sones	20	19.7	19.3	18.7	18.4	17.8	16.7	15.8		
		572	CFM	16132	15287	14790	14229	13649	12989	12313	11534		
			BHP	2.81	3.04	3.14	3.21	3.26	3.29	3.32	3.31		
			Sones	22	22	21	21	20	19.9	19.0	18.1		
LB-36-50	5	614	CFM	17316	16540	16087	15598	15066	14504	13890	13262	11584	
			BHP	3.48	3.72	3.84	3.93	3.99	4.05	4.08	4.1	4.04	
			Sones	25	24	24	24	23	23	22	21	19.2	
		678	CFM	19121	18419	18041	17621	17165	16683	16192	15636	14494	12970
			BHP	4.69	4.95	5.08	5.21	5.3	5.37	5.44	5.47	5.52	5.45
			Sones	30	29	29	29	28	27	27	26	24	22

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



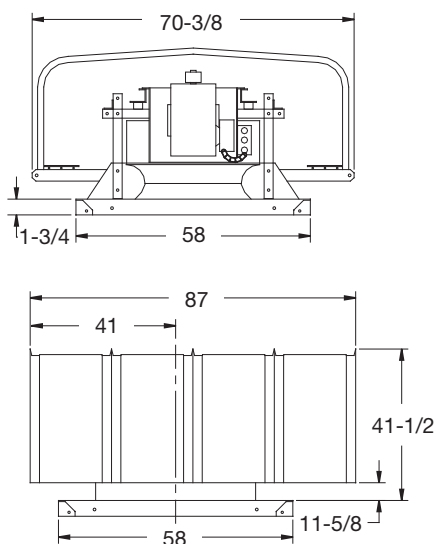
Hood Thickness = 22 ga
Curb Cap Thickness = 0.064
Damper Size = 42 x 42
Roof Opening = 44-1/2 x 44-1/2
Approximate Fan Weight* = 396

All dimensions in inches and weight is shown in pounds.
*Weight shown is the largest cataloged open drip proof motor.



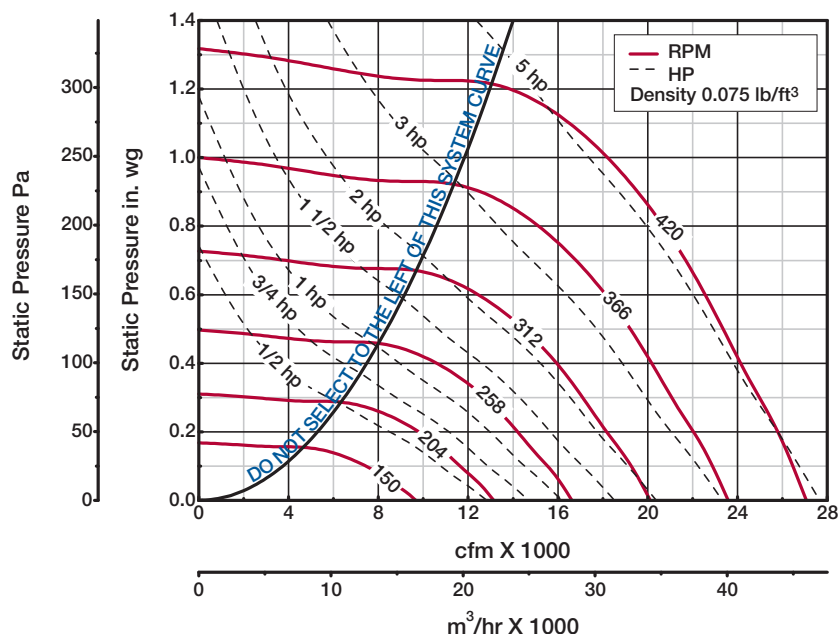
Model Number	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.25
LB-42-5	1/2	190	CFM	8328	6455								
			BHP	0.21	0.25								
			Sones	5.2	4.3								
		247	CFM	10827	9583	7772							
			BHP	0.47	0.53	0.55							
			Sones	6.9	6.0	5.5							
LB-42-7	3/4	283	CFM	12405	11362	9965	7932						
			BHP	0.71	0.78	0.83	0.81						
			Sones	8.3	7.6	7.1	6.5						
LB-42-10	1	311	CFM	13632	12718	11521	10057						
			BHP	0.94	1.02	1.08	1.1						
			Sones	9.8	9.3	8.7	8.3						
LB-42-15	1 1/2	334	CFM	14640	13812	12766	11480	9795					
			BHP	1.17	1.25	1.33	1.37	1.35					
			Sones	11.5	11.0	10.4	9.8	9.2					
		356	CFM	15605	14828	13887	12733	11417	9401				
			BHP	1.41	1.5	1.58	1.64	1.66	1.59				
			Sones	13.2	12.7	12.1	11.5	10.8	10.3				
LB-42-20	2	392	CFM	17183	16477	15667	14715	13626	12382	10481			
			BHP	1.89	1.98	2.08	2.16	2.21	2.21	2.13			
			Sones	16.1	15.5	14.9	14.3	13.7	13.2	12.9			
LB-42-30	3	420	CFM	18410	17751	17030	16205	15201	14135	12945	11013		
			BHP	2.32	2.42	2.52	2.62	2.68	2.72	2.72	2.61		
			Sones	18.6	18.0	17.3	16.6	16.1	15.4	15.3	15.2		
		448	CFM	19637	19020	18378	17605	16740	15786	14735	13494		
			BHP	2.82	2.93	3.04	3.14	3.22	3.28	3.3	3.28		
			Sones	22	21	20	19.4	18.8	18.1	17.5	17.6		
LB-42-50	5	482	CFM	21128	20554	19980	19281	18562	17683	16796	15798	14692	
			BHP	3.51	3.63	3.74	3.86	3.97	4.04	4.1	4.11	4.09	
			Sones	23	23	22	22	21	20	19.3	18.7	18.5	
		515	CFM	22574	22037	21500	20887	20214	19480	18651	17822	16871	14331
			BHP	4.28	4.41	4.53	4.65	4.77	4.87	4.94	5.01	5.01	4.88
			Sones	25	24	24	24	23	22	21	21	20	19.3

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



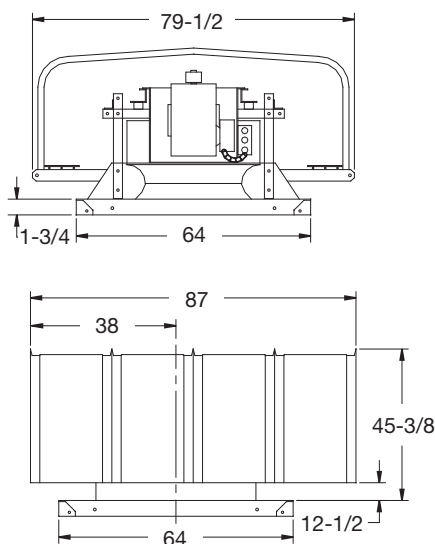
Hood Thickness = 22 ga
Curb Cap Thickness = 0.064
Damper Size = 48 x 48
Roof Opening = 50-1/2 x 50-1/2
Approximate Fan Weight* = 430

All dimensions in inches and weight is shown in pounds.
*Weight shown is the largest cataloged open drip proof motor.



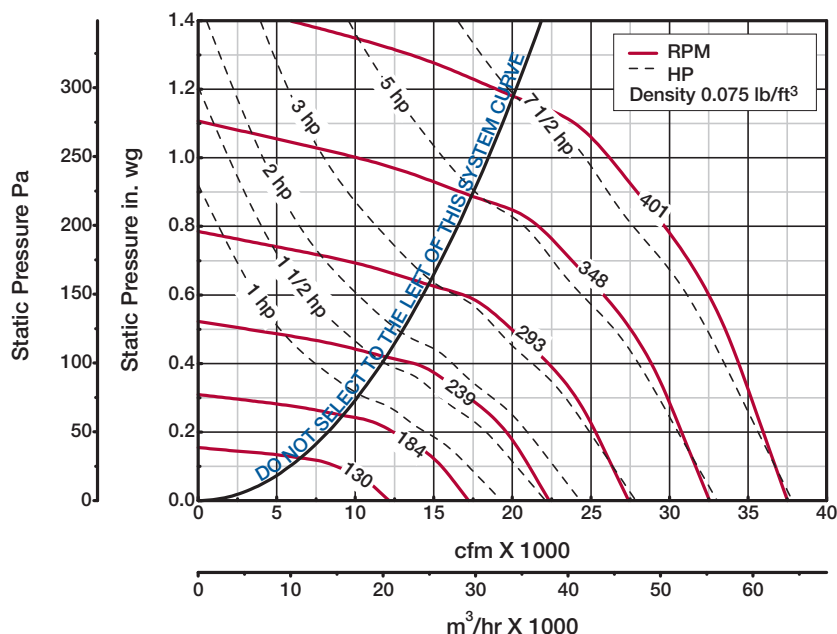
Model Number	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	0.9	1
LB-48-5	1/2	150	CFM	9666	6546								
			BHP	0.21	0.24								
			Sones	6.1	5.4								
		175	CFM	11277	8948								
			BHP	0.34	0.38								
			Sones	6.9	5.6								
		199	CFM	12824	10846	7629							
			BHP	0.5	0.56	0.54							
			Sones	7.6	6.8	7.0							
LB-48-7	3/4	226	CFM	14563	12863	10741							
			BHP	0.73	0.81	0.83							
			Sones	8.5	8.2	7.5							
LB-48-10	1	249	CFM	16046	14530	12787	10092						
			BHP	0.98	1.07	1.1	1.08						
			Sones	9.5	9.4	9.2	8.3						
LB-48-15	1 1/2	267	CFM	17205	15823	14222	12151						
			BHP	1.2	1.31	1.35	1.36						
			Sones	10.6	10.4	10.2	9.2						
		285	CFM	18365	17103	15612	13896	11357					
			BHP	1.46	1.58	1.63	1.66	1.61					
			Sones	12.3	11.7	11.1	10.5	9.6					
LB-48-20	2	314	CFM	20234	19141	17779	16397	14665	11934				
			BHP	1.96	2.1	2.17	2.2	2.22	2.1				
			Sones	15.4	14.5	13.4	12.5	12.2	11.5				
LB-48-30	3	359	CFM	23134	22214	21041	19878	18650	17134	15069	11596		
			BHP	2.93	3.1	3.21	3.25	3.29	3.31	3.25	2.84		
			Sones	18.4	17.8	17.2	16.5	15.9	15.5	14.8	13.4		
LB-48-50	5	381	CFM	24552	23685	22620	21512	20378	19104	17564	15491	15076	
			BHP	3.5	3.68	3.81	3.87	3.92	3.95	3.95	3.86	3.85	
			Sones	20	19.6	19.1	18.6	17.9	17.4	17.1	16.2	16.0	
		420	CFM	27065	26278	25383	24354	23363	22317	21159	19839	19534	18029
			BHP	4.69	4.89	5.05	5.15	5.21	5.25	5.29	5.31	5.3	5.23
			Sones	23	23	23	23	22	22	21	21	21	20

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



Hood Thickness = 22 ga
Curb Cap Thickness = 0.064
Damper Size = 54 x 54
Roof Opening = 56-1/2 x 56-1/2
Approximate Fan Weight* = 596

All dimensions in inches and weight is shown in pounds.
*Weight shown is the largest cataloged open drip proof motor.



Model Number	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.125
LB-54-10	1	130	CFM	12159									
			BHP	0.25									
			Sones	4.6									
		155	CFM	14497	11186								
			BHP	0.42	0.48								
			Sones	5.8	4.9								
		206	CFM	19267	17356	13895							
			BHP	0.99	1.1	1.12							
			Sones	8.7	8.5	8.7							
LB-54-15	1 1/2	235	CFM	21980	20319	17983	14194						
			BHP	1.47	1.6	1.66	1.6						
			Sones	11.2	11.2	11.3	11.7						
LB-54-20	2	258	CFM	24131	22628	20831	17904						
			BHP	1.95	2.09	2.18	2.21						
			Sones	12.1	12.5	13.0	13.3						
LB-54-30	3	277	CFM	25908	24517	22962	20554	17326					
			BHP	2.41	2.57	2.68	2.72	2.65					
			Sones	14.1	13.4	14.1	14.4	13.7					
		296	CFM	27685	26383	25030	23122	20394	16072				
			BHP	2.94	3.11	3.25	3.31	3.34	3.1				
			Sones	17.6	15.5	15.2	16.0	15.1	13.1				
LB-54-50	5	323	CFM	30210	29017	27789	26305	24165	21535	17215			
			BHP	3.82	4.01	4.17	4.27	4.31	4.29	4.01			
			Sones	19.3	17.8	17.3	18.4	18.3	16.8	14.7			
		350	CFM	32736	31634	30514	29312	27766	25487	22974	18944		
			BHP	4.87	5.06	5.25	5.39	5.46	5.5	5.43	5.13		
			Sones	18.9	19.5	20	21	22	21	19.0	17.8		
LB-54-75	7 1/2	376	CFM	35167	34142	33111	32039	30716	29030	26889	24483	20824	
			BHP	6.03	6.25	6.45	6.62	6.72	6.79	6.82	6.71	6.4	
			Sones	22	23	23	24	25	26	24	22	21	
		401	CFM	37506	36544	35583	34583	33500	32150	30332	28324	26018	22767
			BHP	7.32	7.54	7.77	7.96	8.11	8.19	8.24	8.29	8.13	7.81
			Sones	25	26	26	27	28	29	29	27	26	24

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



The LB exhaust fans shall be belt drive type. The fan wheel shall be centrifugal backward inclined, constructed of aluminum and shall include a wheel cone carefully matched to the fan's venturi for precise running tolerances.

Wheels shall be statically and dynamically balanced. The fan shall be constructed of heavy-gauge steel or aluminum with a rigid internal support structure and birdscreen.

Motors shall be heavy-duty ball bearing type, carefully matched to the fan load, and furnished at the specified voltage, phase and enclosure. Drive frame assembly shall be constructed of heavy-gauge steel. Motors and drives shall be mounted on vibration isolators. Motors and drives shall be readily accessible for maintenance.

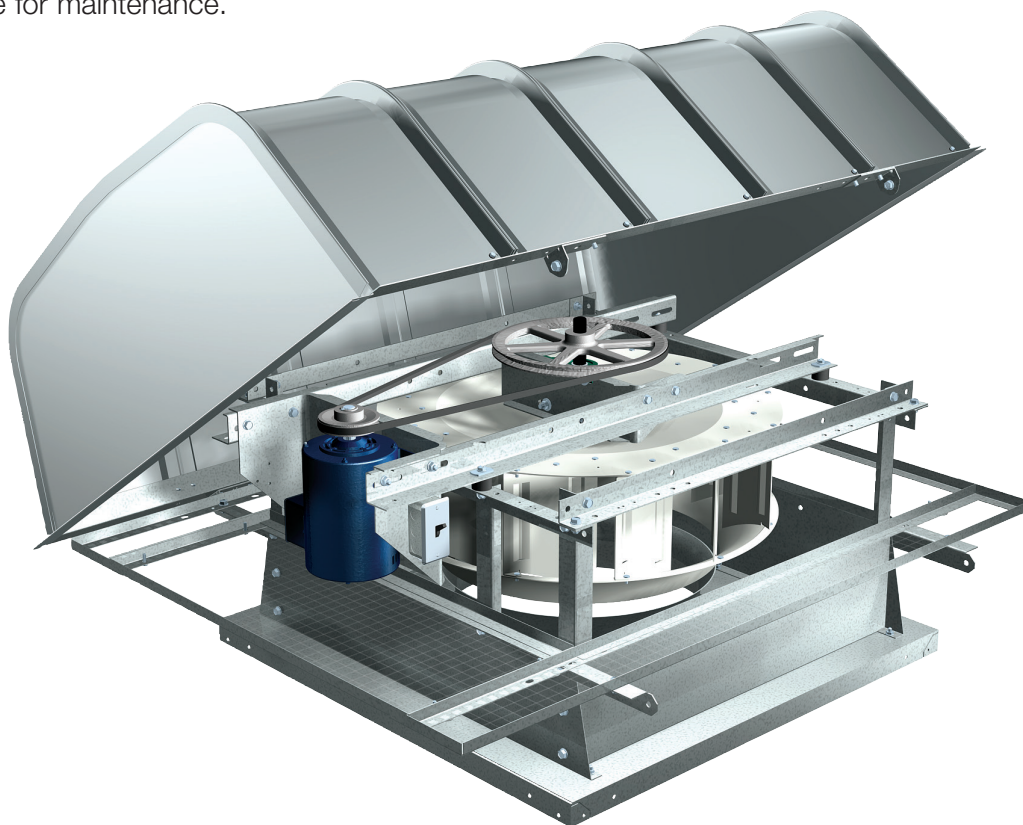
Precision ground and polished fan shafts shall be mounted in permanently sealed, lubricated pillow block ball bearings. Bearings shall be selected for a minimum L_{10} life in excess of 100,000 hours (L_{50} average of 500,000 hours) at maximum cataloged operating speed. Drives shall be sized for a minimum of 150% of driven horsepower. Pulleys shall be of the cast type, keyed and securely attached to the wheel and motor shafts.

Motor pulleys shall be adjustable for final system balancing. A disconnect switch shall be factory installed and wired from the fan motor to a junction box installed within the motor compartment. A conduit chase shall be provided through the base to the motor compartment for ease of electrical wiring.

All fans shall bear the AMCA Certified Ratings Seal for Sound and Air Performance.

Each fan shall bear a permanently affixed manufacturer's engraved aluminum nameplate containing the model number and individual serial number for future identification.

Fans shall be model LB as manufactured by Greenheck Fan Corporation in Schofield, Wisconsin, USA.



Extraordinary Service

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

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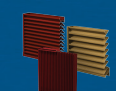
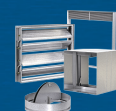
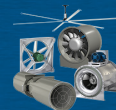
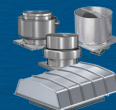
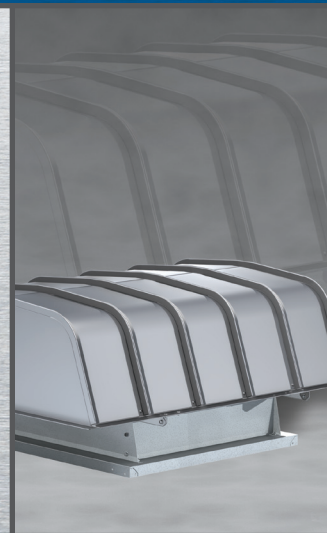


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