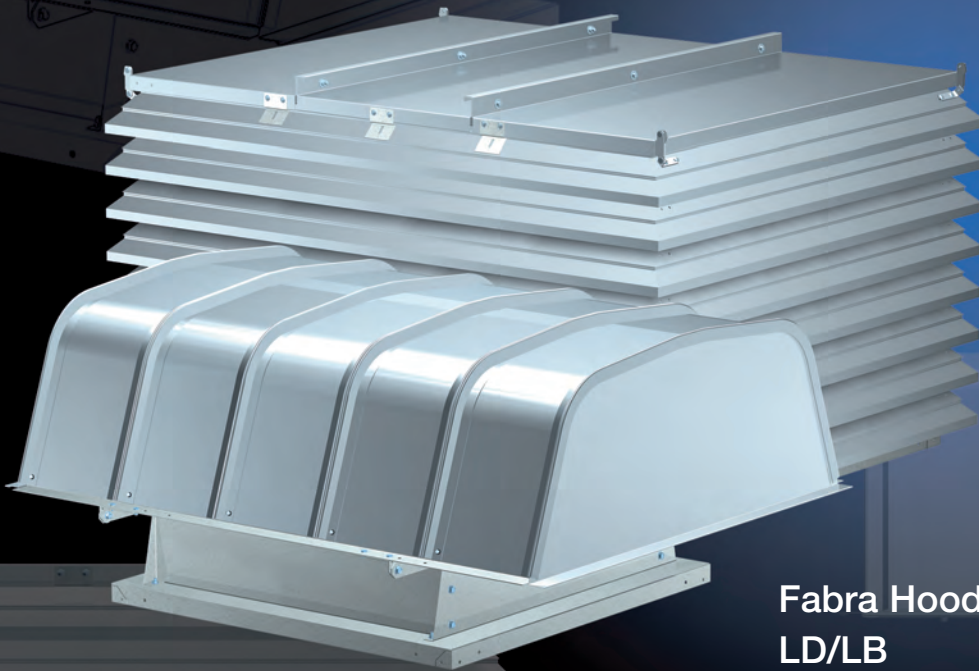
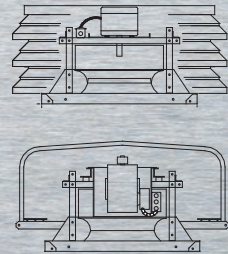


Centrifugal Roof Exhaust Fans Series L

Low Silhouette

Louvered Penthouse Style
LDP/LBP



Fabra Hood Style
LD/LB

 **GREENHECK**
Building Value in Air.

Series L Centrifugal Roof Exhaust Fans



Greenheck's Series L, low silhouette, models LD, LB, LDP, and LBP centrifugal roof exhaust fans provide the industry's best performance and durability for general clean air applications.

- Broadest performance in the industry, up to 1.25 in. wg (311 Pa) and 37,500 cfm (63,713 m³/hr).
- Performance as cataloged is assured. All fan sizes are tested in our AMCA Accredited Laboratory, and all models are licensed to bear the AMCA sound and air performance seals.
- UL Listed for electrical.*
- Greenheck subjects these products to extensive life testing, assuring you the fans will provide years of reliable performance.



Greenheck Fan Corporation certifies the models LD, LDP, LB, and LBP 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.



* UL is optional and must be specified. Models LD, LDP, LB, and LBP are listed for electrical (UL/cUL 705) File no. E40001.

Leading Edge Technical Support



When you need extensive product or installation and operating manual (IOM) information, our products are supported by the industry's best product literature, electronic media and computer aided product selection (CAPS) program. You'll also find this information on our website at www.greenheck.com

You can always count on personal service and expertise from our national and international representative organization. To locate your nearest Greenheck representative, call 715-359-6171 or visit our website at www.greenheck.com

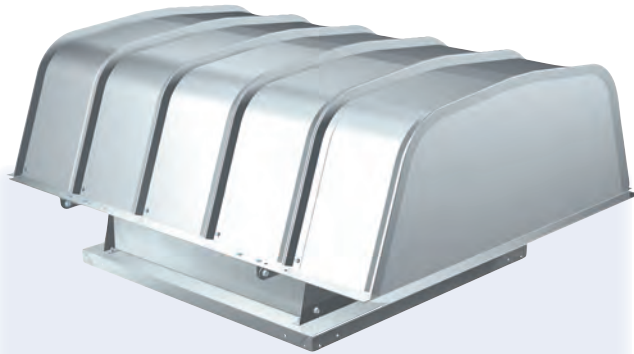
Quick Build Programs



Our Quick Build (QB) Program ensures rapid response time when your needs require a fast turnaround. Select from more than 40 configurations of the Series L, low silhouette model fan and we will manufacture and ship them within ten days. We have strategically located many warehouses across the United States and internationally to fill your request at a moments notice.

World Class Manufacturing

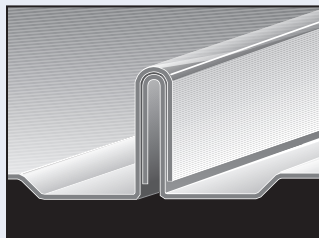
Greenheck's skilled production workers use cost-effective machines and unique dies designed and built by our own engineers to add innovative features and greater strength to our centrifugal roof exhaust fans. Our advanced manufacturing processes and quality control procedures always ensure the highest product quality. And just to be sure you get the peace-of-mind you expect when you specify Greenheck, our assembly inspectors test run and monitor every fan before it leaves the factory. Results of these tests are kept in permanent records for future reference.



Fabra Hood Style

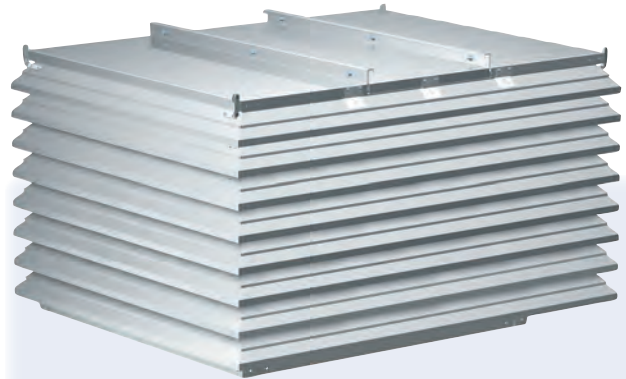
- **Hinged Hood** - All sizes feature a hood which may be hinged to provide quick access to the motor and drive assembly. Access may be gained by simply removing two of the four hood fasteners or all fasteners for complete removal.
- **Large Interior Dimensions** - All sizes allow complete accessibility. 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. The first hood was put into service over 30 years ago.

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.

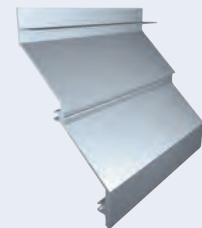
Hoods are available in galvanized steel, painted steel, or aluminum construction.



Louvered Penthouse Style

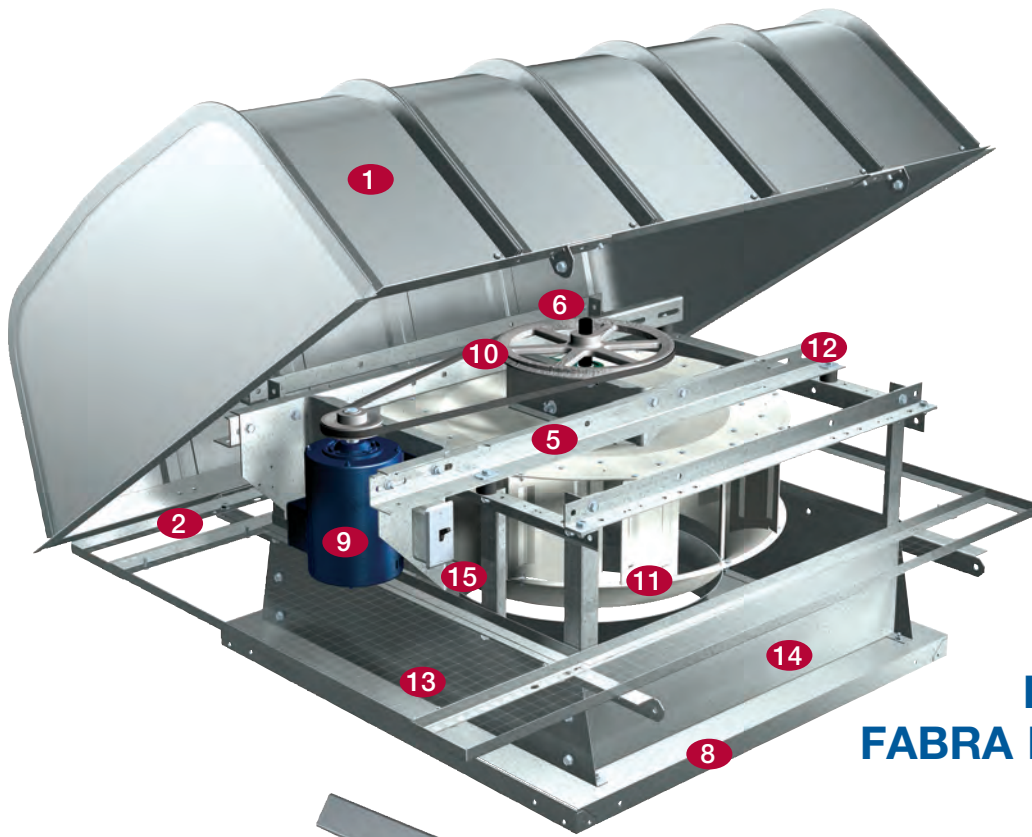
- **Hinged Cover** - All sizes feature an aluminum cover which may be hinged to provide quick access to the motor and drive assembly. Covers are fastened down with a quick release hood latch.
- **Large Interior Dimensions** - All sizes allow complete accessibility from above. Interior dimensions offer clearance for inspection, cleaning, or maintenance of the motor, wheel, belt(s), and drives.
- **Strength & Weather Resistant** - Each unit features storm resistant aluminum louver blades with mitered corners. For decades, our storm resistant blades have proven highly effective. Each sturdy extruded aluminum louver blade has a material thickness of 0.080 inches.

Greenheck's louvered penthouse hoods feature heavy gauge extruded aluminum louvers with mitered corners for a clean, finished appearance and weather resistant construction.

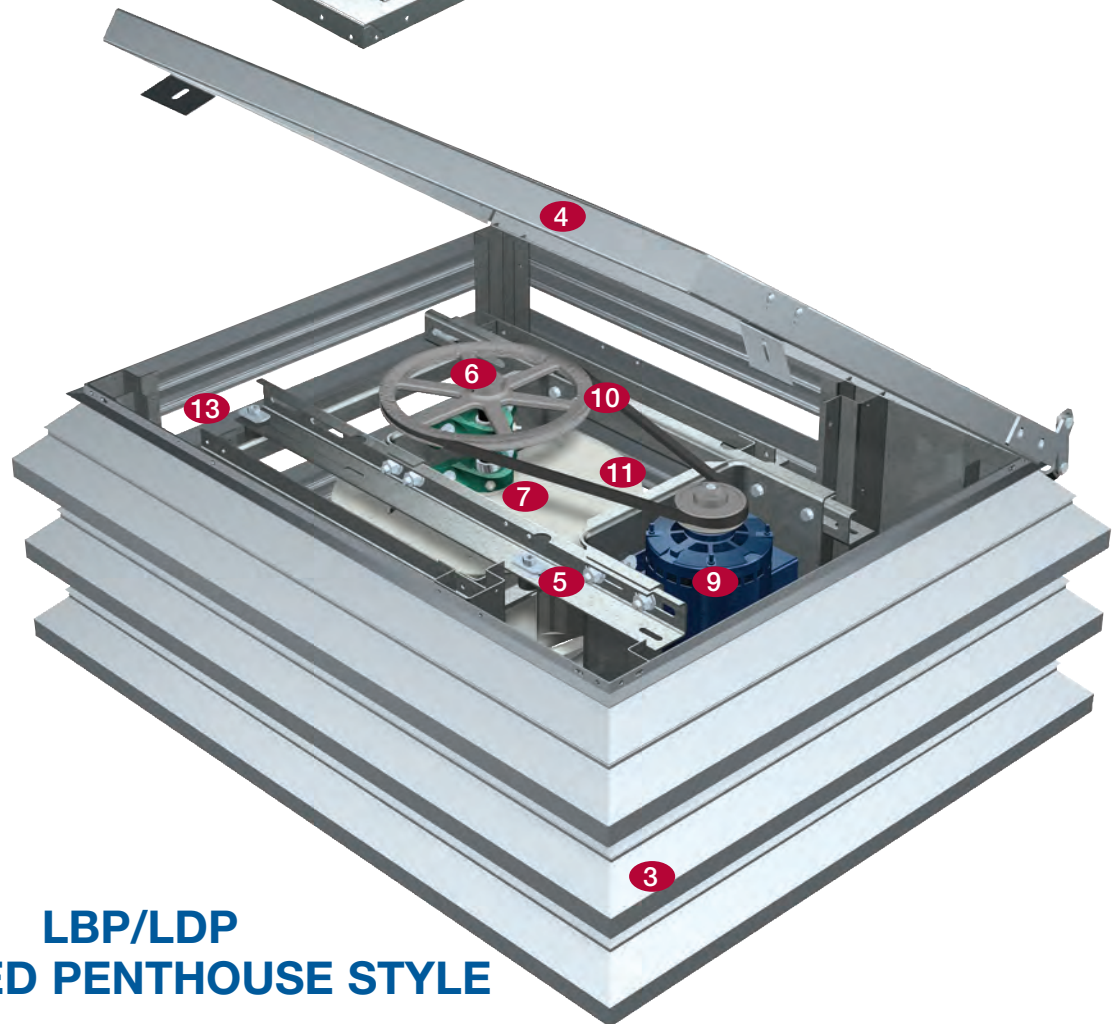


The interior vertical edge of the curb cap forms the throat and weathershield. Each corner is also shielded to prevent leakage.

Penthouses are available in aluminum for lasting durability and appearance.



**LB/LD
FABRA HOOD STYLE**



**LBP/LDP
LOUVERED PENTHOUSE STYLE**

Unique Construction Features



- 1 **FABRA HOOD STYLE** - Models LD and LB have a rib-lock aluminum housing. Hood panels are interlocked and attached to sturdy aluminum rails. (Galvanized housings are optional).
- 2 **HINGED ACCESS** - The entire hood assembly on models LD and LB can be hinged open for access to the internal fan components.
- 3 **LOUVERED PENTHOUSE** - Models LDP and LBP penthouse style housings are constructed of heavy extruded aluminum louvers with mitered and welded corners.
- 4 **HOOD COVER** - Models LDP and LBP aluminum hood covers are hinged and removable for access.
- 5 **DRIVE FRAME** - Constructed from heavy gauge galvanized steel. Belt adjustment is accomplished by loosening fasteners, sliding the motor plate, and retightening fasteners.
- 6 **FAN SHAFT** - Precisely sized, ground, and polished so the first critical speed is at least 25% over the maximum operating speed. Close tolerances between the shaft and bearing result in longer bearing life.
- 7 **BEARINGS** - 100% factory tested and designed specifically for air handling applications with a minimum L_{10} life in excess of 100,000 hours (L_{50} average life of 500,000 hours).
- 8 **CURB CAP** - Curb cap has prepunched mounting holes to ensure correct attachment to the curb.
- 9 **MOTOR** - Permanently lubricated, sealed ball bearing motors are selected to provide years of trouble-free operation.
- 10 **DRIVE ASSEMBLY** - Drives are oversized 150% of driven horsepower. Machined cast iron pulleys are factory set to the required RPM and are adjustable for final system balancing. Belts are static free and oil resistant.
- 11 **WHEEL** - An aluminum, backward inclined, non-overloading, centrifugal wheel is utilized to deliver maximum efficiency. Each wheel is statically and dynamically balanced.
- 12 **VIBRATION ISOLATORS** - Support the drive assembly and wheel without steel to steel contact providing long life and quiet operation.
- 13 **BIRDSCREEN** - Galvanized rigid wire protects the fan's discharge from birds or small objects. (Aluminum birdscreen is optional).
- 14 **WINDBAND** - Lower windband assembly ensures weathertight and rigid unit construction.
- 15 **DISCONNECT SWITCH** - NEMA-1 switch is factory mounted and wiring is provided from the motor to the disconnect enclosure as standard. All wiring and electrical components comply with the National Electric Codes (NEC) and are UL Listed or Recognized.
- 16 **CONDUIT CHASE** - A large diameter conduit for installing electrical wiring through the curb cap into the motor compartment. (Not shown)

STANDARD INSTALLATION

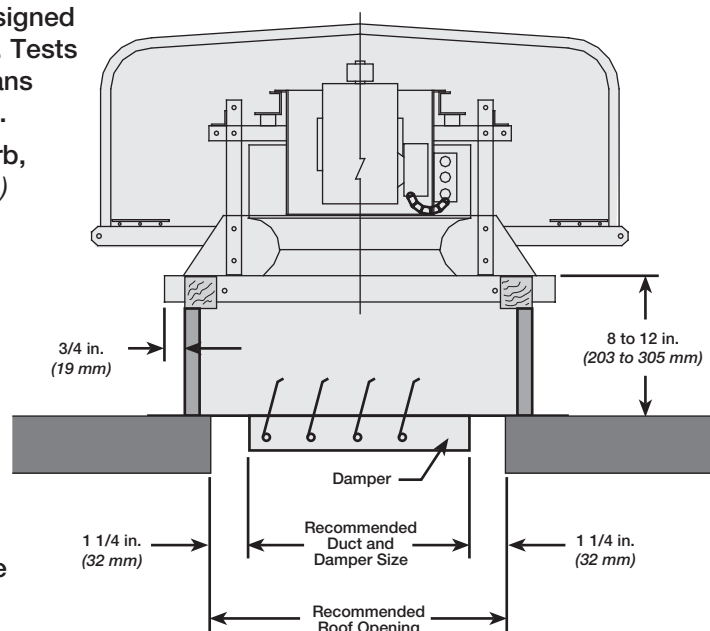
Models LB, LD, LBP, and LDP exhaust fans are designed to meet the needs of general clean air applications. Tests have been conducted to ensure safe and reliable fans capable of withstanding normal exhaust conditions.

When roofing materials extend to the top of the curb, roof curbs should be $1\frac{1}{2}$ in. (38 mm) ($\frac{3}{4}$ in. (19 mm) 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.



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.

COATINGS - All Greenheck coatings and resistance charts can be found in the performance coatings catalog. A wide variety of coatings and colors are available in two categories:

Decorative coatings – Sixteen standard colors are available.

Protective coatings – Five electrostatic applied powder coatings are available to protect against most environments.

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.



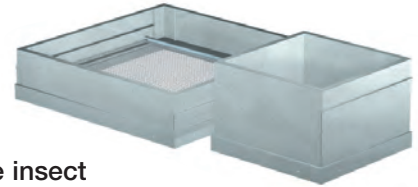
CURB SEAL - Rubber seal between fan and curb to ensure proper sealing when attached to a curb.

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.

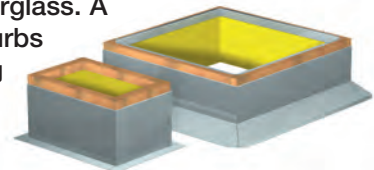


SPEED CONTROLLERS - Available for use with shaded pole and permanent split capacitor (PSC) open motors on models LD and LDP fans. They provide an economical means of system balancing with direct drive fans.

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. Curb extensions are not available with LDP and LBP severe duty construction models.



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.



Severe Duty Option



SEVERE DUTY - Specifically designed for applications with extremely high structural design load requirements. The severe duty models LDP and LBP are far superior to any centrifugal roof exhaust fan currently in the market. Designed with structural steel supports and ESD-603D louver blades, the severe duty louver enclosure (SDLE) may be used in any application which requires a fan to endure high winds with the potential of wind blown debris. The louvered housing has been tested in accordance with the following Miami-Dade test protocols:

- Large Missile Impact Test - TAS-201-94
- Uniform Static Air Pressure - TAS-202-94
- Uniform Cyclic Wind Loading - TAS-203-94

To meet the above protocols, the severe duty fan must be mounted on a severe duty roof curb, which is attached directly to the building structure. Maximum design load is 140 psf.

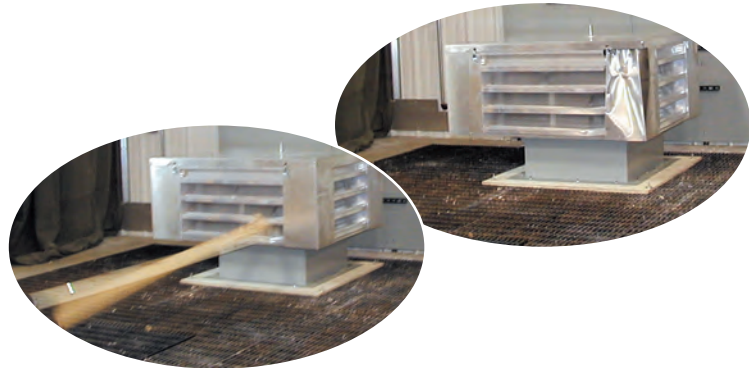
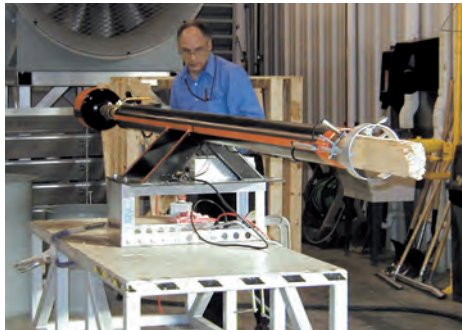
Available on sizes

- LDP - 60 through 120
- LBP - 10 through 30

Weights and dimensions will vary from standard LDP and LBP construction.



NOTICE OF ACCEPTANCE NUMBER 03-0422.05



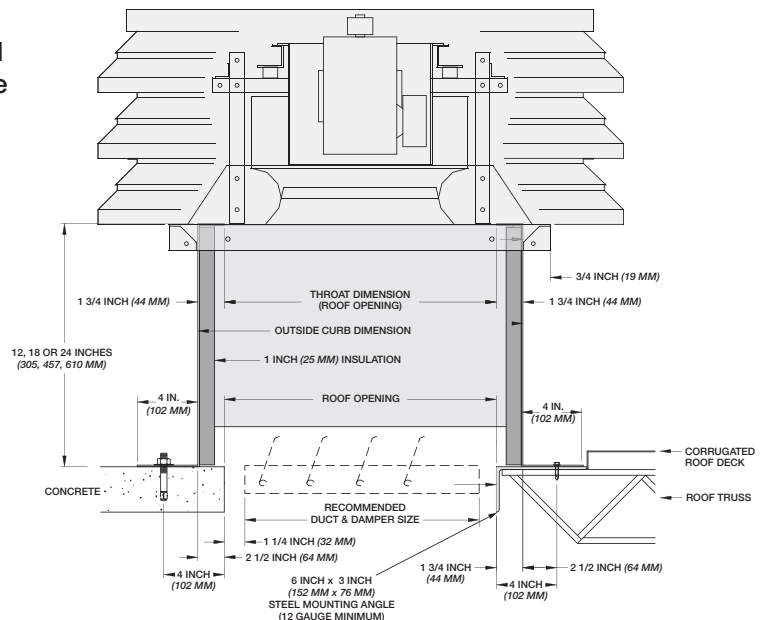
Severe Duty Installation

Models LDP and LBP severe duty exhaust fans are designed to meet the needs of general clean air applications. Tests have been conducted to ensure safe, rugged and reliable fans capable of withstanding severe exhaust conditions.

The severe duty roof curb model SD is supplied with this product and is designed with 12 gauge welded steel construction. Greenheck recommends the severe duty curb to be anchored to the structure of the building. Dependent upon roofing material it shall be bolted and welded. For recommended duct size, refer to CAPS or installation manual.

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

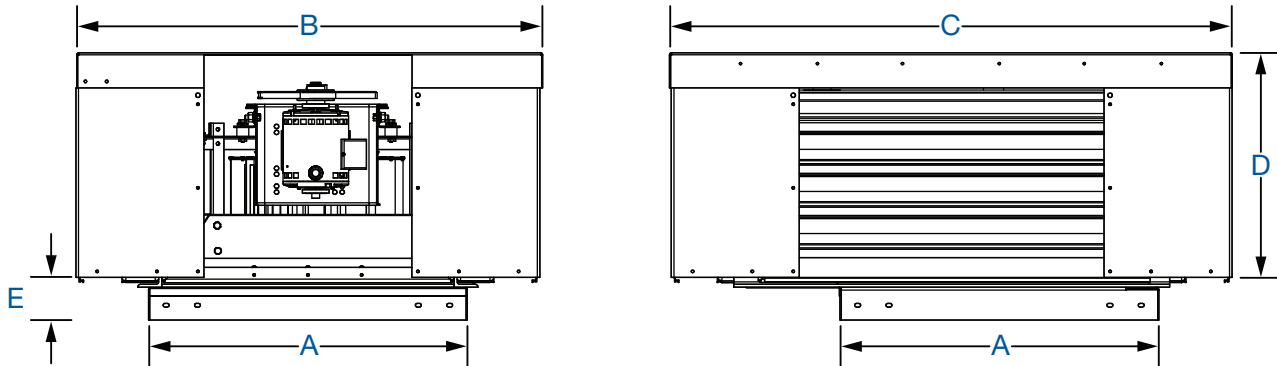
Due to the varying airstreams encountered in commercial ventilation, system designers must be aware of national, state, and local codes and guidelines governing these installations. Local code authorities should be consulted before proceeding with any ventilation project.



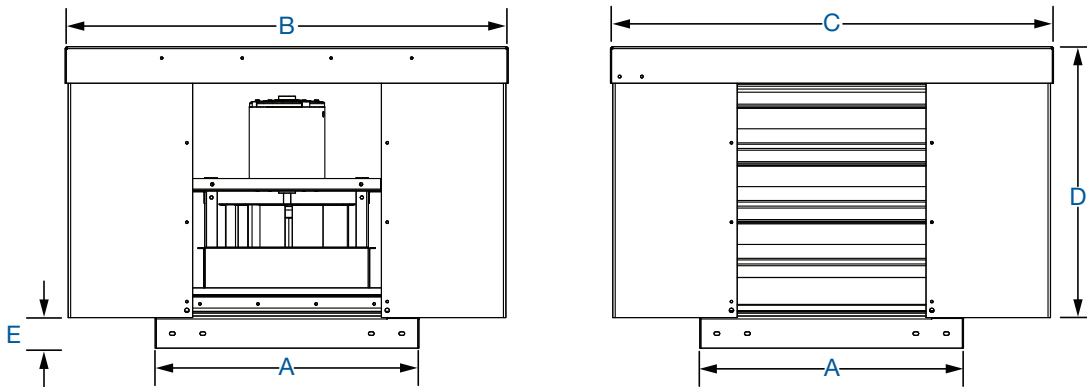
Severe Duty Dimensions



LDP - SEVERE DUTY DIMENSIONS



LBP - SEVERE DUTY DIMENSIONS

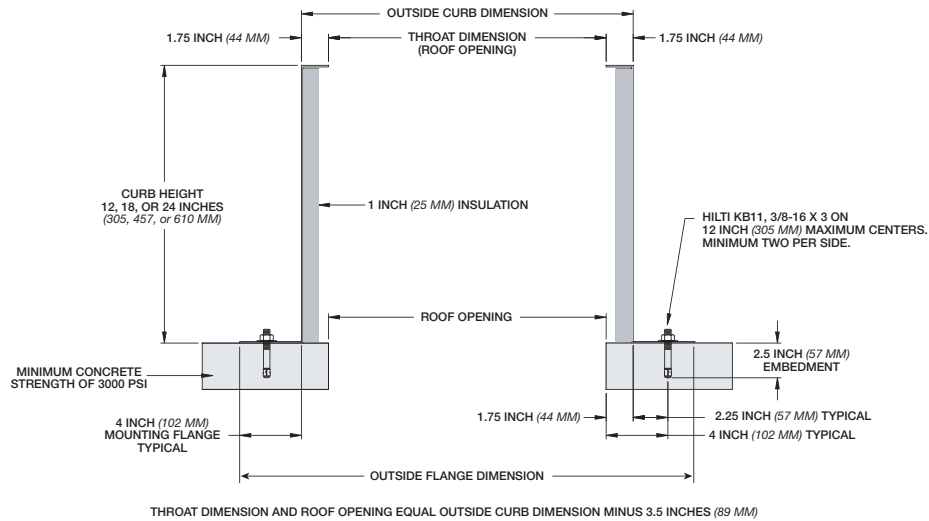


Model Number	A	B	C	D	E	Damper Size (square)	Roof Opening (square)	Weight*	Cover Thickness	Louver Thickness	Curb Cap Thickness	
LDP	60								0.100 (0.045) aluminum	0.125 (0.056) aluminum	0.25 (0.113) steel	
	65	17	34 ⁷ / ₈	34 ⁷ / ₈	17 ⁵ / ₈	1 ³ / ₄	8	10 ¹ / ₂				375
	70	(432)	(886)	(886)	(448)	(44)	(203)	(267)				(170)
	75											
	80											
	85	19	36 ⁷ / ₈	36 ⁷ / ₈	17 ⁵ / ₈	1 ³ / ₄	10	12 ¹ / ₂				400
	90	(483)	(934)	(934)	(448)	(44)	(254)	(318)				(181)
95												
100	22	39 ⁷ / ₈	39 ⁷ / ₈	19 ⁵ / ₈	1 ³ / ₄	12	14 ¹ / ₂	425				
120	(559)	(1013)	(1013)	(498)	(44)	(305)	(368)	(193)				
LBP	10	22	39 ⁷ / ₈	50 ⁷ / ₈	18 ¹ / ₈	1 ³ / ₄	12	10 ¹ / ₂	550	0.100 (0.045) aluminum	0.125 (0.056) aluminum	0.25 (0.113) steel
	14	26	43 ⁷ / ₈	51 ⁷ / ₈	18 ¹ / ₈	1 ³ / ₄	16	10 ¹ / ₂	550			
		(660)	(1114)	(1318)	(460)	(44)	(406)	(267)	(249)			
	18	30	47 ⁷ / ₈	57 ⁷ / ₈	24 ⁵ / ₈	1 ³ / ₄	18	10 ¹ / ₂	550			
		(762)	(1216)	(1470)	(625)	(44)	(457)	(267)	(249)			
	21	34	51 ⁷ / ₈	61 ⁷ / ₈	24 ⁵ / ₈	1 ³ / ₄	24	10 ¹ / ₂	700			
	(864)	(1318)	(1572)	(625)	(44)	(610)	(267)	(318)				
24	34	51 ⁷ / ₈	61 ⁷ / ₈	24 ⁵ / ₈	1 ³ / ₄	24	10 ¹ / ₂	800				
	(864)	(1318)	(1572)	(625)	(44)	(610)	(267)	(363)				
30	40	57 ⁷ / ₈	69 ⁷ / ₈	27 ¹ / ₄	1 ³ / ₄	30	10 ¹ / ₂	950				
	(1016)	(1470)	(1775)	(692)	(44)	(762)	(267)	(431)				

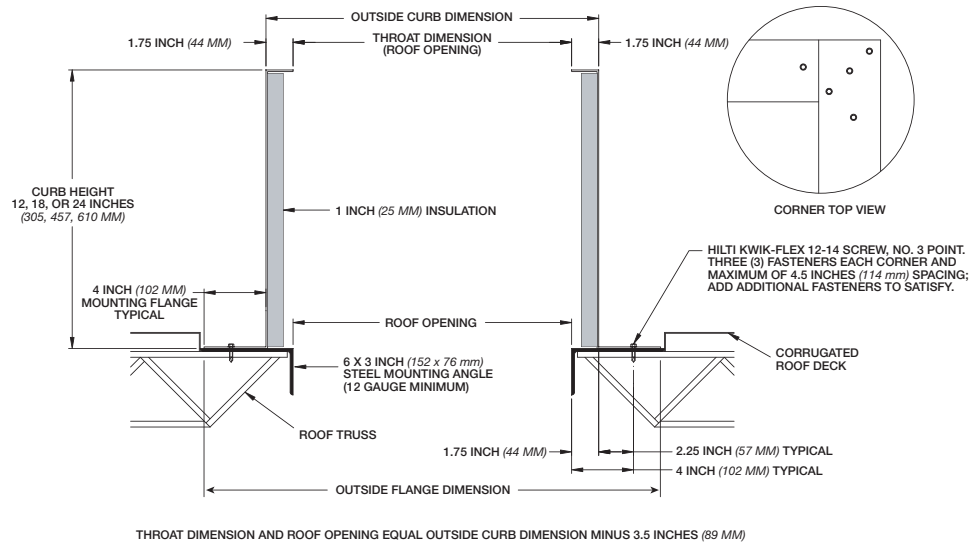
All dimensions are in inches (millimeters). Weight in pounds (kilograms). *Weight shown is the largest cataloged Open Drip Proof motor.

Severe Duty Curb Installation Options

Concrete



Steel



Model Number Code

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

LB - 30 - 7

Model

- LD - Fabra Hood Direct Drive
- LB - Fabra Hood Belt Drive
- LDP - Louvered Penthouse Direct Drive
- LBP - Louvered Penthouse Belt Drive

Fan Size

- LD/LDP 60 thru 120
- LB/LBP 10 thru 54

Motor hp (Belt Drive only)

- | | | |
|---------|---------|----------|
| 6 = 1/6 | 10 = 1 | 50 = 5 |
| 4 = 1/4 | 15 = 1½ | 75 = 7½ |
| 3 = 1/3 | 20 = 2 | 100 = 10 |
| 5 = 1/2 | 30 = 3 | 150 = 15 |
| 7 = 3/4 | | |

Motor RPM (Direct Drive only)

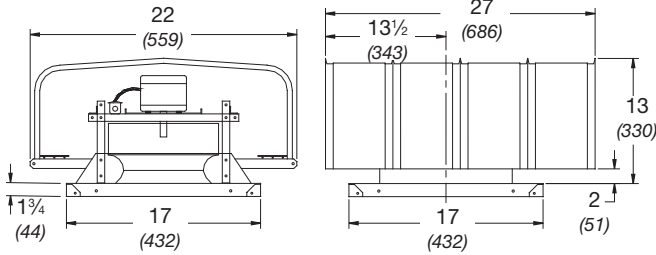
- A = 1725
- B = 1140
- C = 860

LD/LDP 60-75

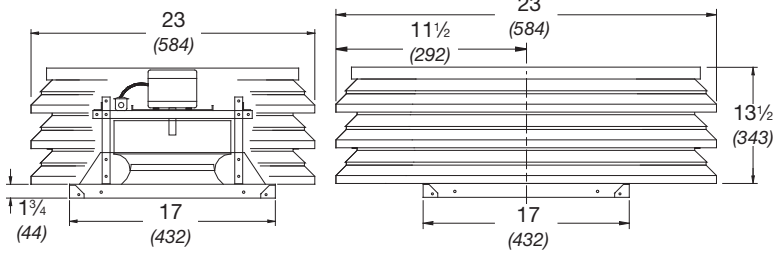
Direct Drive



LD Dimensions



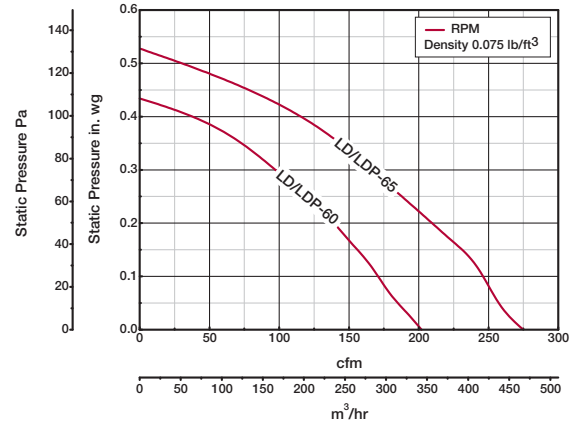
LDP Dimensions



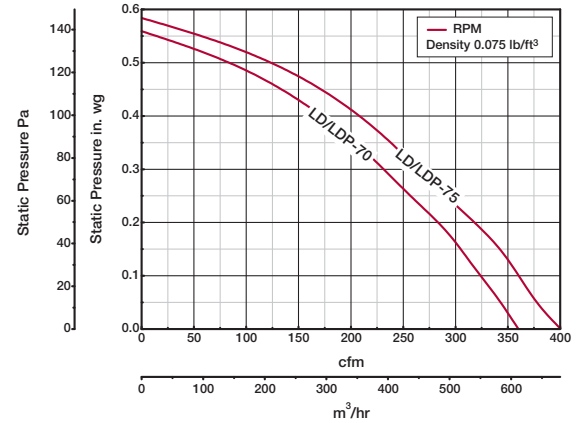
	LD 60 thru LD 75	LDP 60 thru LDP 75
Hood Thickness	24 ga	-
Cover Thickness	-	0.064 (0.029)
Louver Thickness	-	0.081 (0.036)
Curb Cap Thickness	0.064 (0.029)	0.064 (0.029)
Damper Size Square	8 (203)	8 (203)
Roof Opening Square	10 1/2 (267)	10 1/2 (267)
Weight*	Galvanized, 37 (17)	Aluminum, 49 (22)

All dimensions are in inches (millimeters). Weight in pounds (kilograms).
 *Weight shown is the largest cataloged Open Drip Proof motor. See page 8 for severe duty LDP dimensions.

Size 60 and 65



Size 70 and 75



Model Number	Motor HP	Fan RPM	Watts	CFM / Static Pressure in Inches wg										
				0	0.1	0.125	0.2	0.25	0.3	0.375	0.4	0.45	0.5	
LD/LDP-60	1/60	1590*	51 W	CFM	202	171	164	139	119	97				
				Sones	4.8	4.3	4.3	4.0	3.8	3.6				
LD/LDP-65	1/30	1680*	70 W	CFM	274	245	238	208	187	165	129	112		
				Sones	5.6	5.3	5.2	5.0	5.1	5.1	5.1	5.2		
LD/LDP-70	1/30	1665*	73 W	CFM	360	324	314	282	257	231	188	171	132	
				Sones	6.4	6.0	5.9	5.5	5.4	5.3	5.2	5.1	5.0	
LD/LDP-75	1/25	1620*	79 W	CFM	400	360	351	317	290	264	222	206	168	122
				Sones	5.8	5.2	5.1	4.9	4.7	4.5	4.2	4.1	4.0	3.8

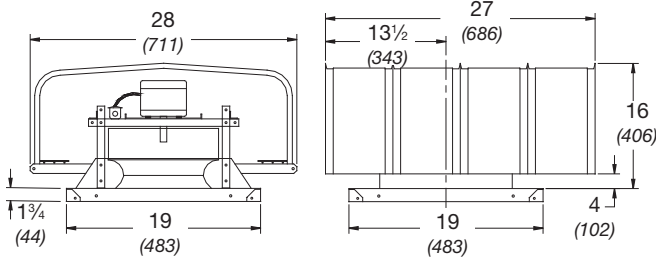
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (Bhp) does not include transmission losses. Performance ratings include the effects of a birdscreen in the airstream. The sound ratings shown are loudness values in fan sones at 5 feet (1.5 m) in a hemispherical free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

LD/LDP 80-95

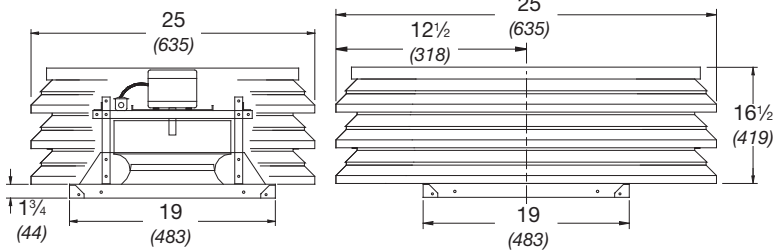
Direct Drive



LD Dimensions



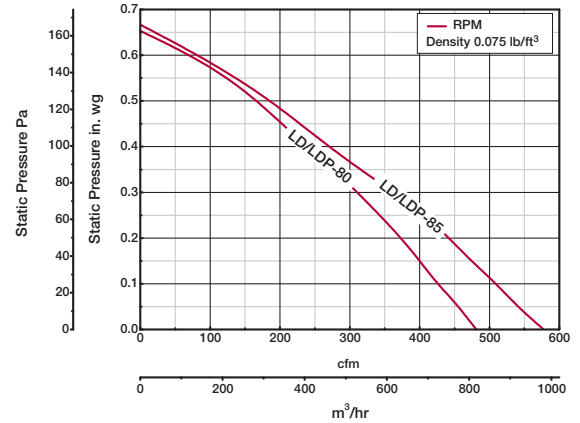
LDP Dimensions



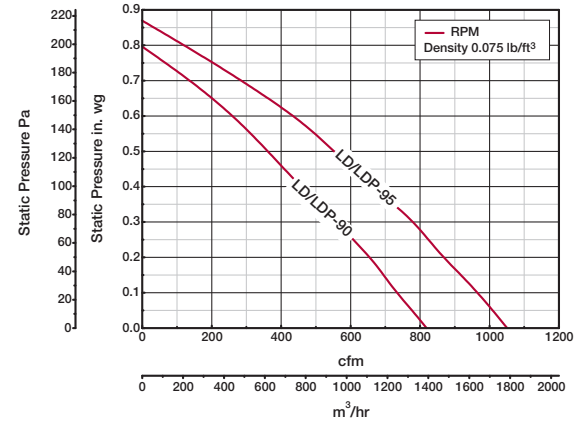
	LD 80 thru LD 95	LDP 80 thru LDP 95
Hood Thickness	24 ga	-
Cover Thickness	-	0.064 (0.029)
Louver Thickness	-	0.081 (0.036)
Curb Cap Thickness	0.064 (0.029)	0.064 (0.029)
Damper Size Square	10 (254)	10 (254)
Roof Opening Square	12 1/2 (318)	12 1/2 (318)
Weight*	Galvanized, 45 (20)	Aluminum, 63 (29)

All dimensions are in inches (millimeters). Weight in pounds (kilograms).
 *Weight shown is the largest cataloged Open Drip Proof motor. See page 8 for severe duty LDP dimensions.

Size 80 and 85



Size 90 and 95



Model Number	Motor HP	Fan RPM	Watts	CFM / Static Pressure in Inches wg										
				0	0.1	0.125	0.2	0.25	0.3	0.375	0.5	0.6	0.625	
LD/LDP-80	1/20	1550*	115 W	CFM	481	426	413	372	342	310	258	165		
				Sones	8.8	8.2	8.0	7.8	7.6	7.4	7.2	7.5		
LD/LDP-85	1/20	1500*	120 W	CFM	576	507	490	440	403	360	291	182		
				Sones	8.6	8.1	8.0	7.7	7.3	7.1	7.0	7.8		
LD/LDP-90	1/15	1550*	92 W	CFM	819	735	714	654	608	562	485	361		
				Sones	8.8	8.6	8.5	8.4	8.3	8.1	7.8	7.9		
LD/LDP-95	1/8	1550*	160 W	CFM	1052	965	942	870	825	780	695	552	430	396
				Sones	11.8	11.2	11.1	10.8	10.4	10.2	10.0	9.8	10.1	10.2

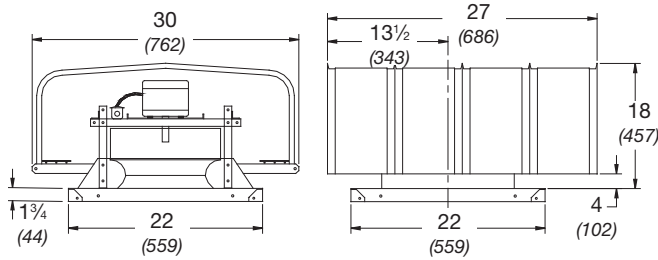
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (Bhp) does not include transmission losses. Performance ratings include the effects of a birdscreen in the airstream. The sound ratings shown are loudness values in fan sones at 5 feet (1.5 m) in a hemispherical free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

LD/LDP 100-120

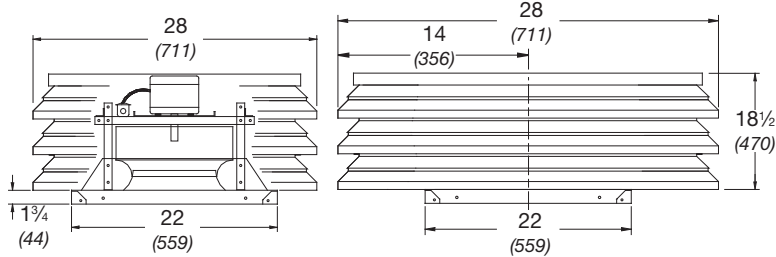
Direct Drive



LD Dimensions



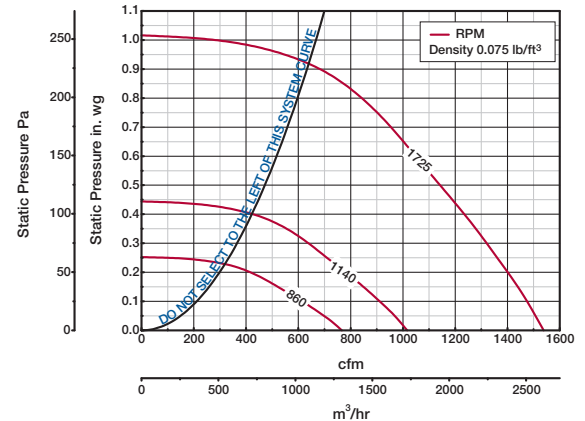
LDP Dimensions



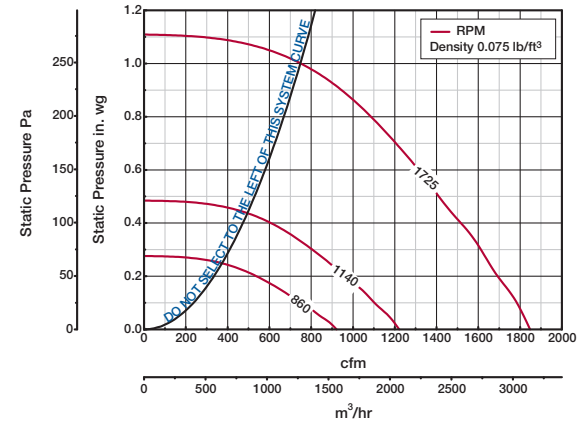
	LD 100 thru LD 120	LDP 100 thru LDP 120
Hood Thickness	24 ga	-
Cover Thickness	-	0.064 (0.029)
Louver Thickness	-	0.081 (0.036)
Curb Cap Thickness	0.064 (0.029)	0.064 (0.029)
Damper Size Square	12 (305)	12 (305)
Roof Opening Square	14 1/2 (368)	14 1/2 (368)
Weight*	Galvanized, 57 (26)	Aluminum, 82 (37)

All dimensions are in inches (millimeters). Weight in pounds (kilograms).
 *Weight shown is the largest cataloged Open Drip Proof motor. See page 8 for severe duty LDP dimensions.

Size 100



Size 120



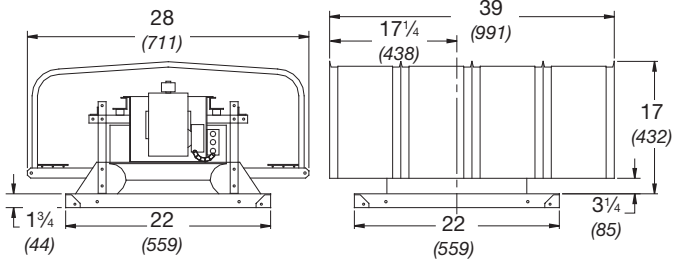
Model Number	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg											
				0	0.125	0.2	0.25	0.375	0.5	0.625	0.75	0.875	0.9		
LD/LDP-100-C	1/8	860	CFM	766	568	407									
			BHP	0.022	0.029	0.028									
			Sones	6.3	5.3	5.1									
LD/LDP-100-B	1/6	1140	CFM	1016	879	780	709	493							
			BHP	0.051	0.065	0.068	0.068	0.066							
			Sones	12.0	11.0	10.6	10.4	10.4							
LD/LDP-100-A	1/4	1725	CFM	1538	1457	1399	1360	1256	1142	1024	891	724	678		
			BHP	0.18	0.21	0.22	0.22	0.23	0.24	0.24	0.23	0.23	0.22		
			Sones	16.2	14.8	14.4	14.2	14.3	14.2	14.8	15.3	15.9	16.1		
LD/LDP-120-C	1/8	860	CFM	921	702	536									
			BHP	0.03	0.041	0.043									
			Sones	6.6	5.3	5.1									
LD/LDP-120-B	1/6	1140	CFM	1221	1072	960	886	664							
			BHP	0.071	0.086	0.094	0.096	0.099							
			Sones	11.9	10.9	10.3	10.0	9.2							
LD/LDP-120-A	1/4	1725	CFM	1848	1762	1693	1652	1540	1412	1286	1142	979	940		
			BHP	0.25	0.28	0.29	0.29	0.31	0.33	0.34	0.35	0.34	0.33		
			Sones	21	19.6	19.4	19.3	18.6	18.4	18.2	18.2	18.3	18.3		

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.

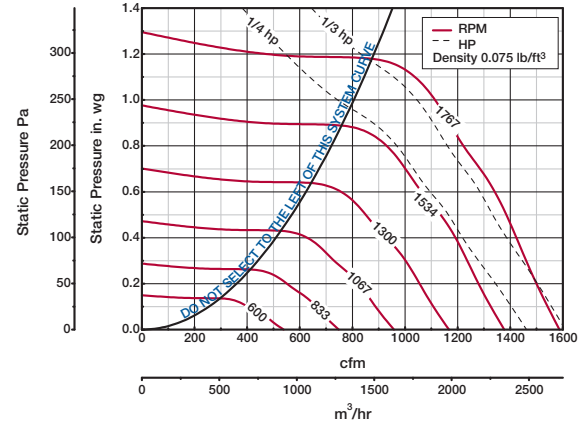
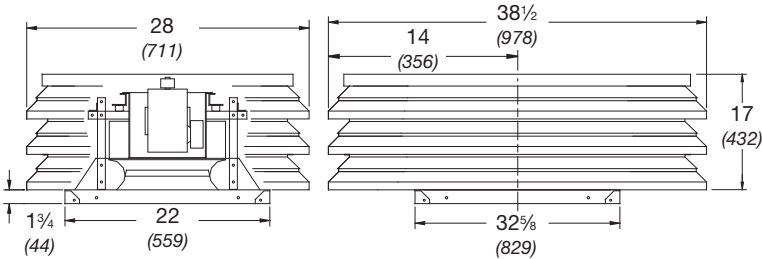
LB/LBP 10 Belt Drive



LB Dimensions



LBP Dimensions



	LB-10	LBP-10
Hood Thickness	22 ga	-
Cover Thickness	-	0.064 (0.029)
Louver Thickness	-	0.081 (0.036)
Curb Cap Thickness	0.064 (0.029)	0.064 (0.029)
Damper Size Square	12 (305)	12 (305)
Roof Opening Square	14 1/2 (368)	14 1/2 (368)
Weight*	Galvanized, 56 (25)	Aluminum, 99 (45)

All dimensions are in inches (millimeters). Weight in pounds (kilograms). *Weight shown is the largest cataloged Open Drip Proof motor. See page 8 for severe duty LBP dimensions.

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/LBP-10-4	1/4	600	CFM	539	351															
			BHP	0.013	0.014															
			Sones	3.0	1.6															
		712	CFM	639	500															
			BHP	0.021	0.024															
			Sones	3.6	2.3															
		937	CFM	841	746	623														
			BHP	0.048	0.053	0.054														
			Sones	5.1	4.3	3.6														
		1049	CFM	942	855	759	625													
			BHP	0.067	0.073	0.076	0.075													
			Sones	5.9	5.3	4.7	4.2													
		1162	CFM	1043	963	887	780	618												
			BHP	0.091	0.097	0.103	0.103	0.099												
			Sones	6.9	6.3	5.9	5.4	4.7												
		1274	CFM	1144	1070	1004	917	818												
			BHP	0.12	0.13	0.13	0.14	0.14												
			Sones	8.0	7.5	7.1	6.8	6.3												
1386	CFM	1244	1177	1114	1047	953	861													
	BHP	0.15	0.16	0.17	0.18	0.18	0.17													
	Sones	9.2	8.8	8.4	8.2	7.9	7.3													
1499	CFM	1346	1283	1224	1168	1093	1006	910												
	BHP	0.19	0.2	0.21	0.22	0.22	0.22	0.22												
	Sones	10.0	9.8	9.5	9.3	8.8	8.3	7.8												
1611	CFM	1446	1388	1331	1280	1220	1142	1064	970											
	BHP	0.24	0.25	0.26	0.27	0.28	0.28	0.28	0.27											
	Sones	11.2	10.9	10.7	10.4	10.1	9.5	9.0	8.5											
LB/LBP-10-3	1/3	1689	CFM	1516	1461	1406	1356	1304	1237	1158	1087	980								
			BHP	0.28	0.29	0.3	0.31	0.32	0.32	0.32	0.32	0.32	0.31							
			Sones	12.2	11.9	11.6	11.3	11.0	10.6	9.9	9.5	8.9	8.9							
		1767	CFM	1587	1533	1480	1432	1385	1327	1254	1182	1112	997							
			BHP	0.32	0.33	0.34	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36						
			Sones	13.5	13.0	12.6	12.2	11.9	11.7	11.0	10.5	10.1	9.5							

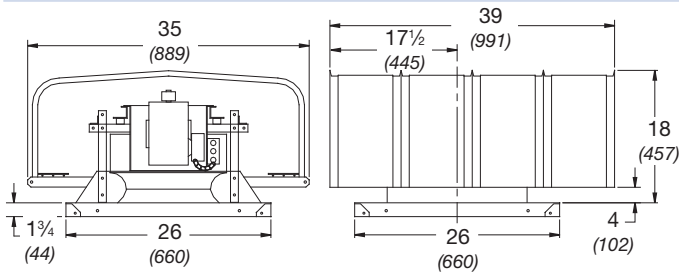
MAX. BHP AT A GIVEN RPM - (rpm/2476)³
 MAXIMUM FRPM = 1767
 TIP SPEED = rpm x 2.913
 MAX. MOTOR FRAME SIZE = 56

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.

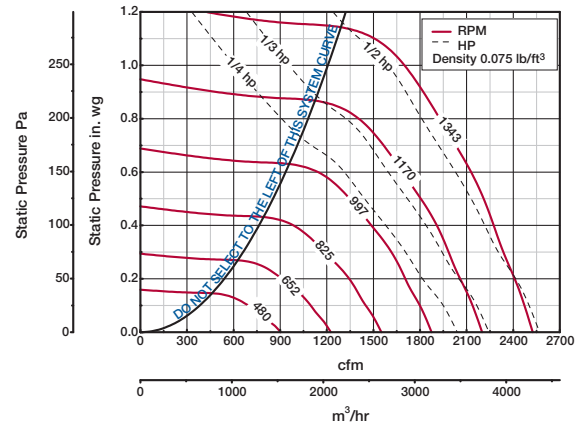
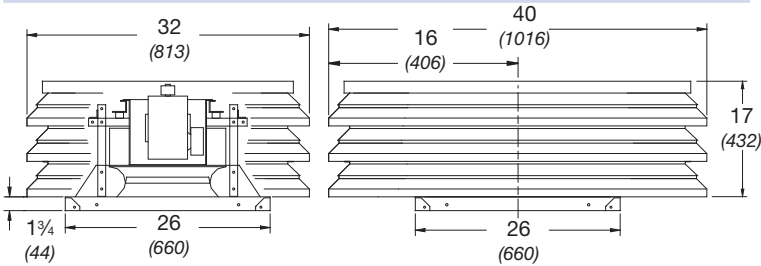
LB/LBP 14 Belt Drive



LB Dimensions



LBP Dimensions



	LB-14	LBP-14
Hood Thickness	22 ga	-
Cover Thickness	-	0.064 (0.029)
Louver Thickness	-	0.081 (0.036)
Curb Cap Thickness	0.064 (0.029)	0.064 (0.029)
Damper Size Square	16 (406)	16 (406)
Roof Opening Square	18 1/2 (470)	18 1/2 (470)
Weight*	Galvanized, 81 (37)	Aluminum, 116 (53)

All dimensions are in inches (millimeters). Weight in pounds (kilograms). *Weight shown is the largest cataloged Open Drip Proof motor. See page 8 for severe duty LBP dimensions.

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/LBP-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									
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									
LB/LBP-14-3	1/3	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						
		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						
LB/LBP-14-5	1/2	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			

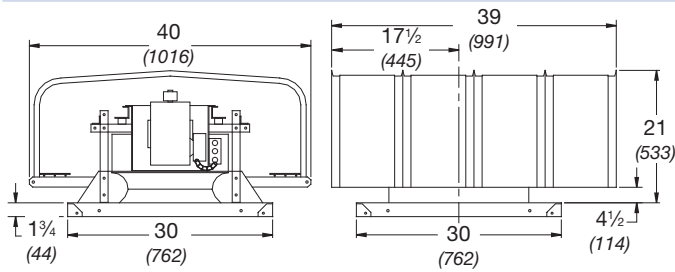
MAX. BHP AT A GIVEN RPM - (rpm/1639)³
 MAXIMUM FRPM = 1343
 TIP SPEED = rpm x 3.829
 MAX. MOTOR FRAME SIZE = 56

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.

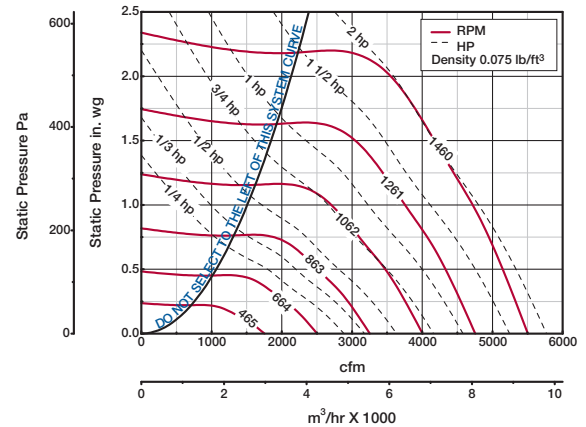
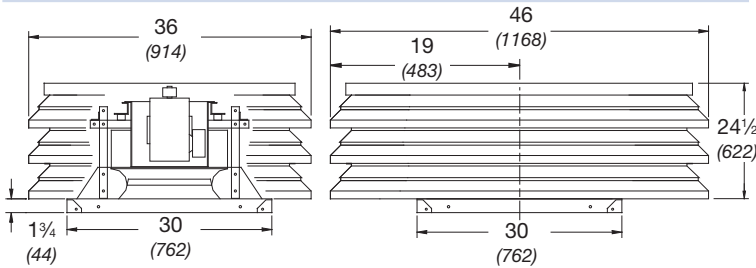
LB/LBP 18 Belt Drive



LB Dimensions



LBP Dimensions



	LB-18	LBP-18
Hood Thickness	22 ga	-
Cover Thickness	-	0.064 (0.029)
Louver Thickness	-	0.081 (0.036)
Curb Cap Thickness	0.064 (0.029)	0.064 (0.029)
Damper Size Square	18 (457)	18 (457)
Roof Opening Square	20 1/2 (521)	20 1/2 (521)
Weight*	Galvanized, 135 (61)	Aluminum, 179 (81)

All dimensions are in inches (millimeters). Weight in pounds (kilograms). *Weight shown is the largest cataloged Open Drip Proof motor. See page 8 for severe duty LBP dimensions.

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/LBP-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/LBP-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/LBP-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/LBP-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/LBP-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/LBP-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	21	20	19.9	19.6	19.5					
LB/LBP-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	22			

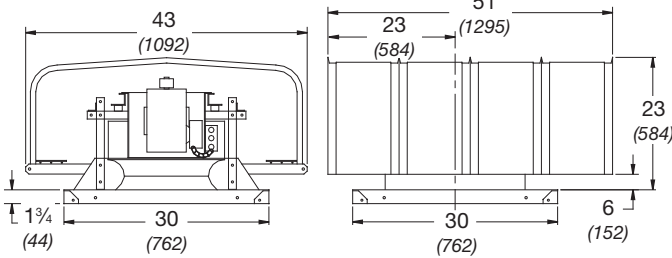
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (Bhp) does not include transmission losses. Performance ratings include the effects of a birdscreen in the airstream. The sound ratings shown are loudness values in fan sones at 5 feet (1.5 m) in a hemispherical free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

LB/LBP 21

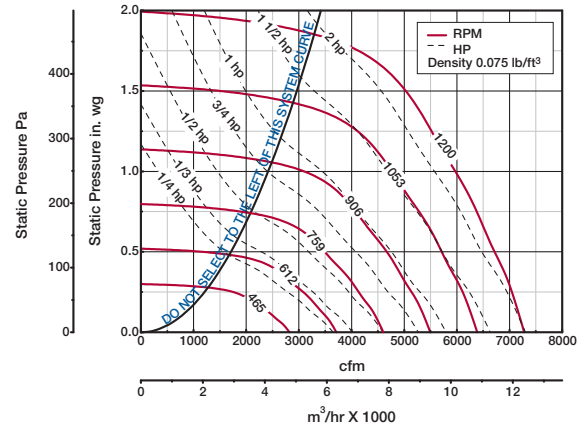
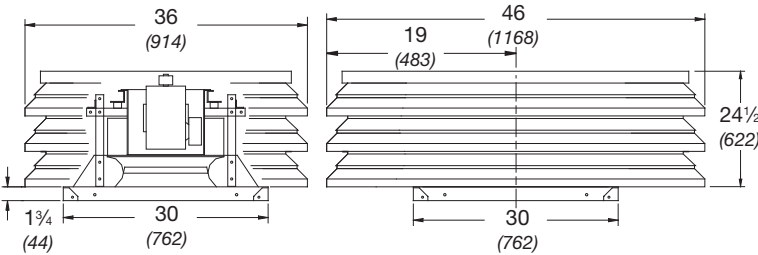
Belt Drive



LB Dimensions



LBP Dimensions



	LB-21	LBP-21
Hood Thickness	22 ga	-
Cover Thickness	-	0.064 (0.029)
Louver Thickness	-	0.081 (0.036)
Curb Cap Thickness	0.064 (0.029)	0.064 (0.029)
Damper Size Square	18 (457)	18 (457)
Roof Opening Square	20 1/2 (521)	20 1/2 (521)
Weight*	Galvanized, 145 (66)	Aluminum, 191 (86)

All dimensions are in inches (millimeters). Weight in pounds (kilograms). *Weight shown is the largest cataloged Open Drip Proof motor. See page 8 for severe duty LBP dimensions.

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/LBP-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/LBP-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											
		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										
LB/LBP-21-5	1/2	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										
		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									
LB/LBP-21-7	3/4	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									
		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/LBP-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/LBP-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					

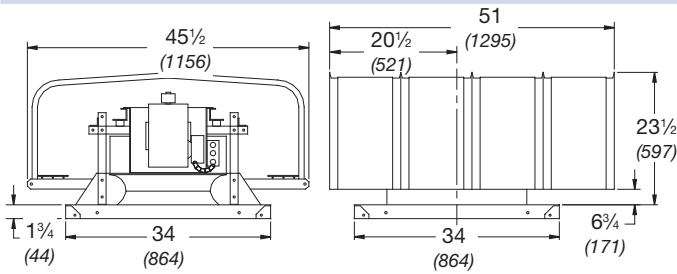
MAX. BHP AT A GIVEN RPM - (rpm/910)³
 MAXIMUM FRPM = 1200
 TIP SPEED = rpm x 5.596
 MAX. MOTOR FRAME SIZE = 145T

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.

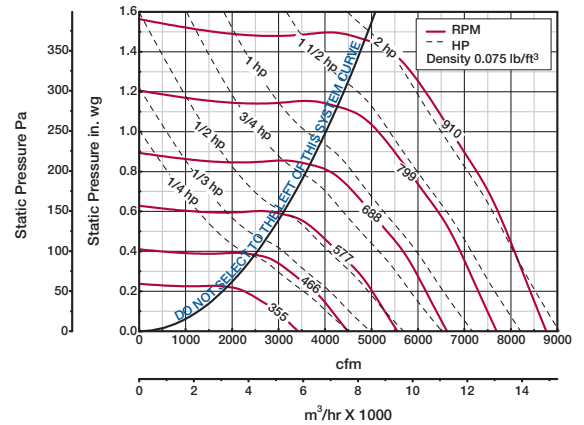
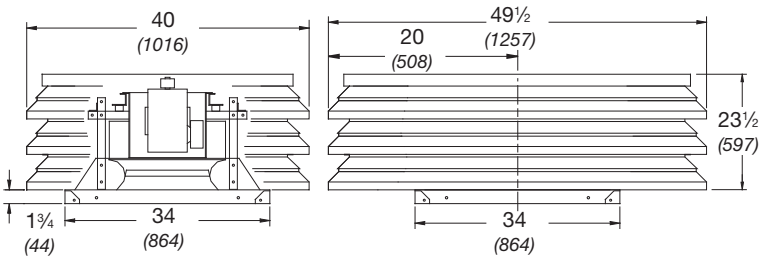
LB/LBP 24 Belt Drive



LB Dimensions



LBP Dimensions



	LB-24	LBP-24
Hood Thickness	22 ga	-
Cover Thickness	-	0.064 (0.029)
Louver Thickness	-	0.081 (0.036)
Curb Cap Thickness	0.064 (0.029)	0.064 (0.029)
Damper Size Square	24 (610)	24 (610)
Roof Opening Square	26 1/2 (673)	26 1/2 (673)
Weight*	Galvanized, 188 (85)	Aluminum, 239 (108)

All dimensions are in inches (millimeters). Weight in pounds (kilograms). *Weight shown is the largest cataloged Open Drip Proof motor. See page 8 for severe duty LBP dimensions.

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/LBP-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/LBP-24-3	1/3	508	CFM	4892	4043	3433										
			BHP	0.32	0.36	0.36										
			Sones	8.5	7.4	6.8										
LB/LBP-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/LBP-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/LBP-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/LBP-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/LBP-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	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			

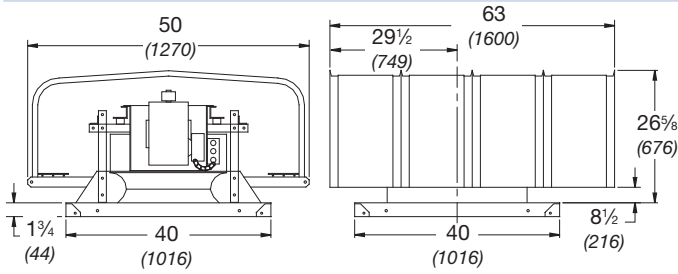
MAX. BHP AT A GIVEN RPM - (rpm/710)³
 MAXIMUM FRPM = 910
 TIP SPEED = rpm x 6.414
 MAX. MOTOR FRAME SIZE = 145T

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.

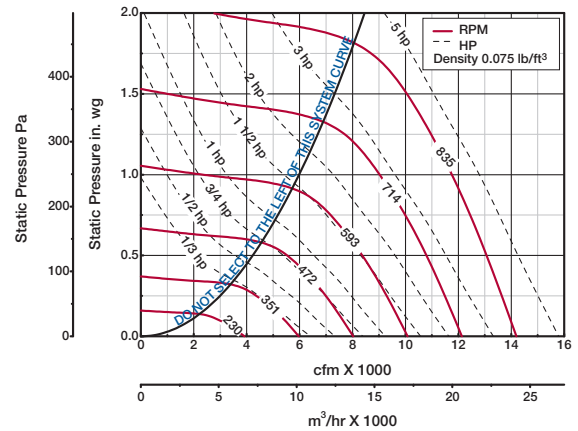
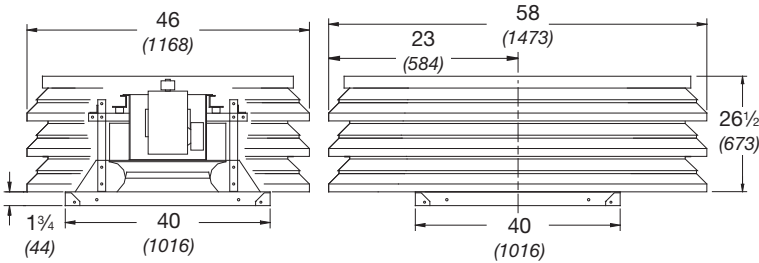
LB/LBP 30 Belt Drive



LB Dimensions



LBP Dimensions



	LB-30	LBP-30
Hood Thickness	22 ga	-
Cover Thickness	-	0.064 (0.029)
Louver Thickness	-	0.081 (0.036)
Curb Cap Thickness	0.064 (0.029)	0.064 (0.029)
Damper Size Square	30 (762)	30 (762)
Roof Opening Square	32 1/2 (826)	32 1/2 (826)
Weight*	Galvanized, 249 (113)	Aluminum, 318 (144)

All dimensions are in inches (millimeters). Weight in pounds (kilograms). *Weight shown is the largest cataloged Open Drip Proof motor. See page 8 for severe duty LBP dimensions.

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/LBP-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/LBP-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/LBP-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/LBP-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								
		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							
LB/LBP-30-15	1 1/2	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							
		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/LBP-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/LBP-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			

MAX. BHP AT A GIVEN RPM - (rpm/512)³
 MAXIMUM FRPM = 835
 TIP SPEED = rpm x 7.985
 MAX. MOTOR FRAME SIZE = 184T

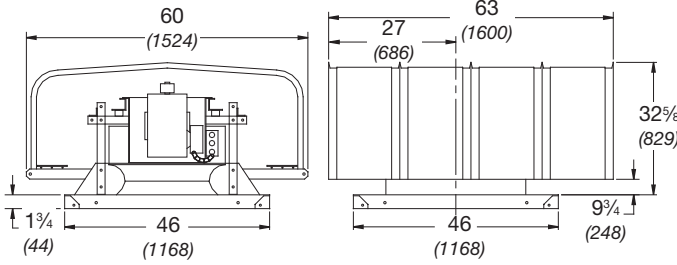
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (Bhp) does not include transmission losses. Performance ratings include the effects of a birdscreen in the airstream. The sound ratings shown are loudness values in fan sones at 5 feet (1.5 m) in a hemispherical free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

LB/LBP 36

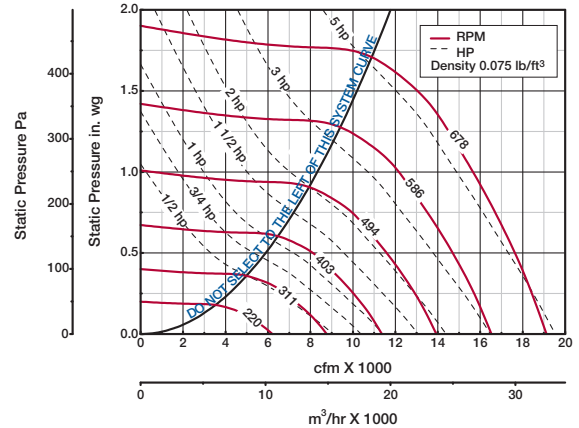
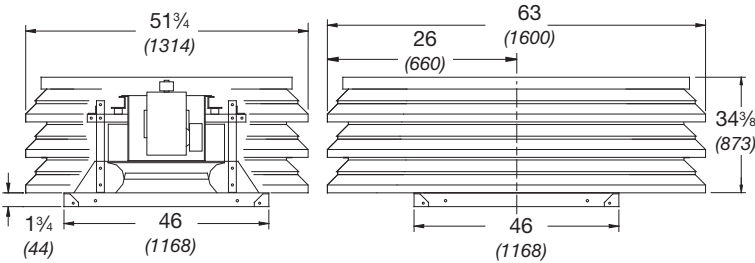
Belt Drive



LB Dimensions



LBP Dimensions



	LB-36	LBP-36
Hood Thickness	0.064 (0.029)	-
Cover Thickness	-	0.064 (0.029)
Louver Thickness	-	0.081 (0.036)
Curb Cap Thickness	0.064 (0.029)	0.064 (0.029)
Damper Size Square	36 (914)	36 (914)
Roof Opening Square	38 1/2 (978)	38 1/2 (978)
Weight*	Galvanized, 338 (153)	Aluminum, 444 (201)

All dimensions are in inches (millimeters). Weight in pounds (kilograms). *Weight shown is the largest cataloged Open Drip Proof motor. See page 8 for severe duty LBP dimensions.

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/LBP-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/LBP-36-7	3/4	360	CFM	10153	8570	7487											
			BHP	0.7	0.81	0.83											
			Sones	10.6	8.9	7.9											
LB/LBP-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/LBP-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/LBP-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/LBP-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/LBP-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				

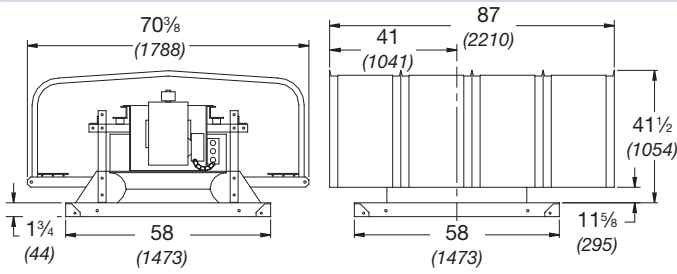
MAX. BHP AT A GIVEN RPM - (rpm/384)³
 MAXIMUM FRPM = 678
 TIP SPEED = rpm x 9.425
 MAX. MOTOR FRAME SIZE = 184T

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.

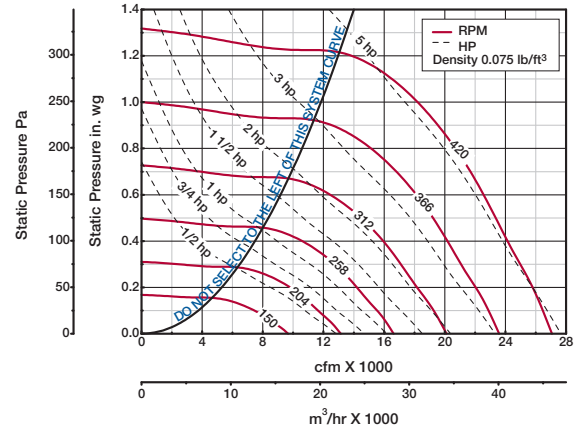
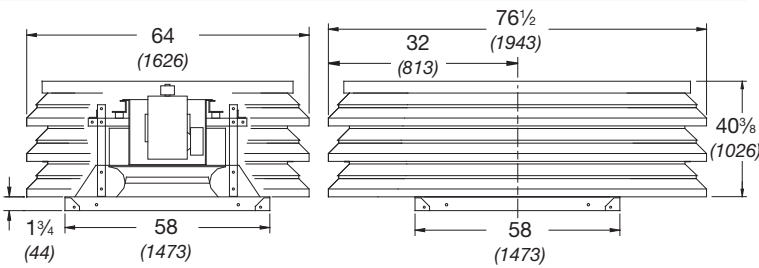
LB/LBP 48 Belt Drive



LB Dimensions



LBP Dimensions



	LB-48	LBP-48
Hood Thickness	0.064 (0.029)	-
Cover Thickness	-	0.064 (0.029)
Louver Thickness	-	0.081 (0.036)
Curb Cap Thickness	0.064 (0.029)	0.064 (0.029)
Damper Size Square	48 (1219)	48 (1219)
Roof Opening Square	50 1/2 (1283)	50 1/2 (1283)
Weight*	Galvanized, 430 (195)	Aluminum, 579 (263)

All dimensions are in inches (millimeters). Weight in pounds (kilograms). *Weight shown is the largest cataloged Open Drip Proof motor. See page 8 for severe duty LBP dimensions.

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/LBP-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/LBP-48-7	3/4	226	CFM	14563	12863	10741											
			BHP	0.73	0.81	0.83											
			Sones	8.5	8.2	7.5											
LB/LBP-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/LBP-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/LBP-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/LBP-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/LBP-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				

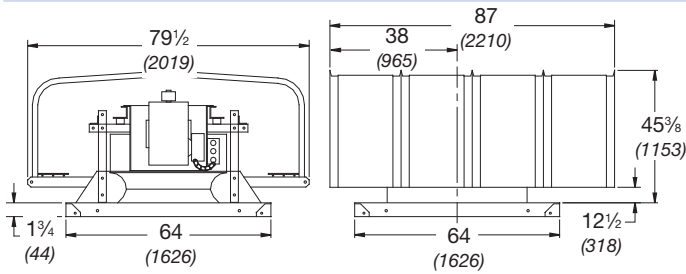
MAX. BHP AT A GIVEN RPM - (rpm/241)³
 MAXIMUM FRPM = 420
 TIP SPEED = rpm x 12.632
 MAX. MOTOR FRAME SIZE = 213T

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.

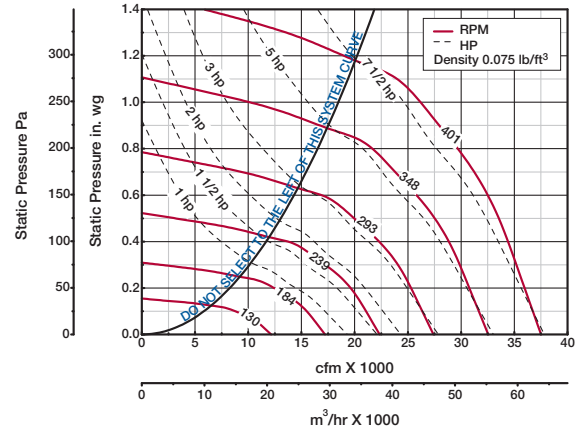
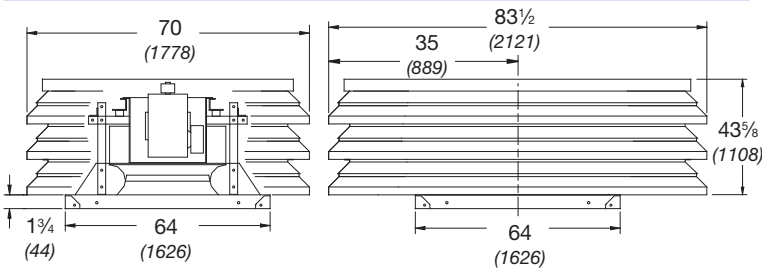
LB/LBP 54 Belt Drive



LB Dimensions



LBP Dimensions



	LB-54	LBP-54
Hood Thickness	0.064 (0.029)	-
Cover Thickness	-	0.064 (0.029)
Louver Thickness	-	0.081 (0.036)
Curb Cap Thickness	0.064 (0.029)	0.064 (0.029)
Damper Size Square	54 (1372)	54 (1372)
Roof Opening Square	56 1/2 (1435)	56 1/2 (1435)
Weight*	Galvanized, 596 (270)	Aluminum, 780 (354)

All dimensions are in inches (millimeters). Weight in pounds (kilograms). *Weight shown is the largest cataloged Open Drip Proof motor. See page 8 for severe duty LBP dimensions.

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/LBP-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/LBP-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/LBP-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/LBP-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/LBP-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/LBP-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			

MAX. BHP AT A GIVEN RPM - (rpm/198)³
 MAXIMUM FRPM = 401
 TIP SPEED = rpm x 14.137
 MAX. MOTOR FRAME SIZE = 213T

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.

Direct Drive Specifications

The LD and LDP exhaust fans shall be direct 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 a birdscreen.

Motors shall be mounted on vibration isolators. Motors shall be readily accessible for maintenance.

A disconnect switch shall be factory installed and wired from the fan motor to a junction box within the motor compartment. A conduit chase shall be provided through the curb cap 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 models LD or LDP as manufactured by Greenheck Fan Corporation in Schofield, Wisconsin, USA.

BELT DRIVE SPECIFICATIONS

The LB and LBP 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.

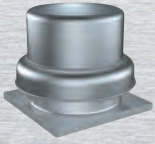
Motor pulleys shall be adjustable for final system balancing. A disconnect switch shall be factory installed and wired from the fan motor to a junction box installed within the motor compartment. A conduit chase shall be provided through the base to the motor compartment for ease of electrical wiring.

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 models LB or LBP as manufactured by Greenheck Fan Corporation in Schofield, Wisconsin, USA.

Other Exhaust Fans



Models G and GB, direct or belt drive, spun aluminum downblast centrifugal roof exhaust fans are an economical means of exhausting air. They utilize a backward inclined wheel and are available in 45 different sizes. Performance capacities range up to 3.25 in. wg (810 Pa) of static pressure and from 50 to 44,700 cfm (85 to 75,900 m³/hr).



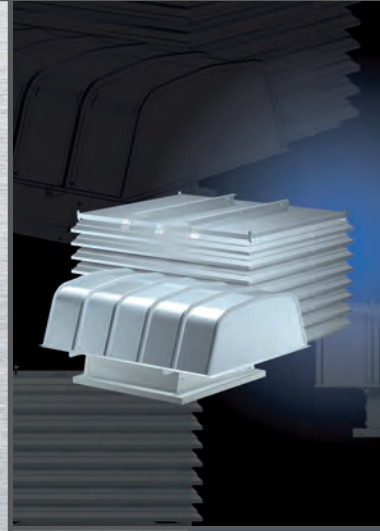
Series C models CUE, CUBE, CW and CWB, are commonly used for general clean air, mild grease and fume hood exhaust applications. Both roof upblast and sidewall configurations are specifically designed to discharge air directly away from the mounting surface. These models are constructed of aluminum and use an aluminum backward inclined wheel. They are UL/cUL Listed for electrical or grease. Performance capacities ranges up to 5 in. wg (1242 Pa) and up to 30,000 cfm (51,000 m³/hr).



Model SWB centrifugal backward inclined belt driven utility fans are designed for supply, exhaust and return air applications requiring higher discharge velocities and high static pressures. The SWB Series 100 is for general clean air applications. The SWB Series 200 fans are constructed with heavy gauge steel. Designed for light industrial duty and grease applications, it's capacities range from 70 to 27,000 cfm (120 to 45,900 m³/hr) and up to 5 in. wg (1,118 Pa) of static pressure. SWB fans can be mounted indoors or outdoors.



Models NYD and NYB, direct or belt drive, tamper resistant centrifugal roof exhaust fans are galvanized construction and prevent entry into the unit and/or building. They utilize a backward inclined wheel and are available in 10 different sizes. Performance capacities range from 170 to 8,080 cfm (290 to 13,700 m³/hr) and up to 1 in. wg (249 Pa) of static pressure.



Building Value in Air

Greenheck delivers value to mechanical engineers by helping them solve virtually any air quality challenges their clients face with a comprehensive selection of

top quality, innovative air-related equipment. We offer extra value to contractors by providing easy-to-install, competitively priced, reliable products that arrive on time.

And building owners and occupants value the energy efficiency, low maintenance and quiet dependable operation they experience long after the construction project ends.

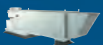
Our Warranty

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

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



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