

Centrifugal Roof Exhaust Fans Models H-G and H-GB

Downblast High Wind & Hurricane Fans, Miami-Dade NOA# 07-0503.07



BUILDING VALUE IN AIR.



November
2007

Models H-G and H-GB

The Greenheck Models H-G (direct drive) and H-GB (belt drive) are centrifugal roof exhaust fans designed specifically for high wind applications, such as hurricanes, tornadoes, and other high wind areas. The down blast design is ideal for general clean air applications where air is discharged directly onto the roof surfaces. Performance ranges up to 14,000 cfm (24,000 m³/hr) and up to 2.75 inches wg (700 Pa).

High winds can reach upwards of 150 mph in much of the world. At these elevated wind speeds roof top equipment can see a force of over 750 pounds (340 kg). High winds and extreme forces are the cause of most storm damage. In 2005, over \$125 billion dollars in damage is linked to high winds and storms.

Third Party Certified

- Miami-Dade NOA # 07-0503.07.
- Withstands wind loads up to 150 mph.
- P.E. (Professional Engineer) calculations available.
- Tested to ASTM and Florida Building Code standards.
- No tie downs to roof required.
- Installation details provided.

High Wind Resistance is Assured

- *Internal Bracing* - High strength internal support structure and bracing.
- *Shroud* - Drawn shroud with integral rolled bead for consistent material thickness and strength.
- *Drive assembly* - Motor and drive frame are mounted on true vibration isolators, and sized for 150% of maximum driven horsepower.
- *Roof Curb* - High wind roof curb is provided and tested as an assembly.



Remember that the H-G and H-GB are the only powered roof exhaust fans that are tested and certified to withstand 150 mph winds.

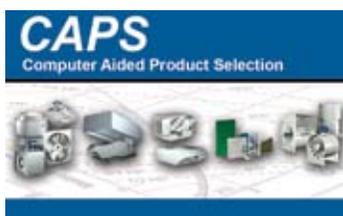


*UL/cUL is optional and must be specified.
H-G & H-GB models are listed for electrical
(UL/cUL 705) File no. E40001



Greenheck Fan Corporation certifies that Models H-G and H-GB fans 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 Publication 311 and comply with the requirements of the AMCA Certified Ratings Program. The certified ratings for Models H-G and H-GB are shown on pages 10 to 39.

Leading Edge Technical Support

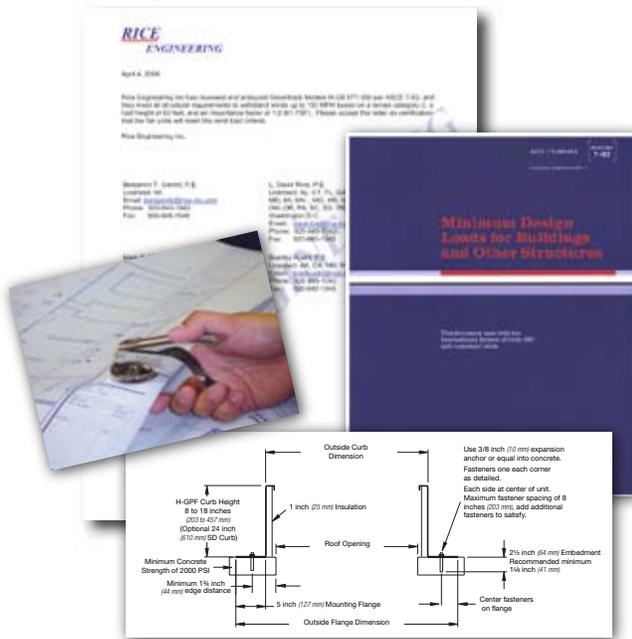


When you need extensive product and IOM (Installation, Operating and Maintenance Manual) information, our products are supported by the industry's best product literature, electronic media, and Computer Aided Product Selection (CAPS) program. You'll also find this information on our website at www.greenheck.com

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

High Wind Force Standards

Greenheck is leading the High Wind Standard for roof top fans and ventilators. By analyzing calculations, computer simulations, actual testing, and other standards Greenheck developed the High Wind Standard.



- Structural calculations performed by a state licensed Professional Engineer (P.E.) to verify the 150 mph (61 psf) capability of each fan and roof curb assembly. These calculations include Finite Element Analysis (FEA) and a stamped P.E. report of the fans compliance to ASCE 7-02 Minimum Design Loads for Buildings and Other Structures Standard and the Florida Building Code.
- Detailed report specifying appropriate size, number, and spacing of fasteners attaching the fan to roof curb and to affix roof curb to building, performed and stamped by a licensed P.E.
- Certified independent third party testing completed in accordance with ASTM Standard E330 and Miami-Dade Test Protocol TAS-202, Static Pressure Difference. The report includes one set of manufacturer's design drawings marked and verified by the certified testing laboratory. All tests are video taped for documentation of test method and results.

What you get from Greenheck – One Step Further

Government Certification

The H-G and H-GB Models are the only downblast aluminum fans in the industry that have received a Miami-Dade NOA for high wind (150 mph) and hurricane zones. (NOA # 07-0503.07).

State Licensed P.E. Calculations

The H-G and H-GB Models have been analyzed and stamped by a state licensed P.E. to the ASCE 7-02 Standard which meets the IBC, Florida and Miami-Dade codes. Both models have been proven to withstand winds in excess of 150 mph (61 psf).

Testing

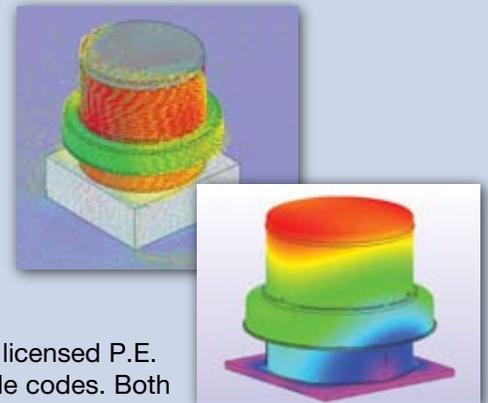
Each of the Greenheck models have been subjected to extensive testing procedures. The H-G and H-GB have been certified by an independent third party to the ASTM E330 Static Pressure Difference Standard and TAS-202 static pressure difference Florida Building Code Test Protocol.

Computational Fluid Dynamics (CFD)

All Greenheck high wind models have been analyzed using Computational Fluid Dynamics (CFD). CFD is computer software designed to simulate the flow of high speed (150 mph) winds over the surface of objects. The software records the force profile exerted on the fan, so it can be utilized in Finite Element Analysis (FEA).

Finite Element Analysis (FEA)

Utilizing the results from CFD analysis Greenheck can accurately predict the stress, strain, and deflection resulting from high wind loads. Greenheck high wind units have been proven to withstand 150 mph winds through Finite Element Analysis utilizing CFD results.



Roof Curb - High wind load fans are certified with one of two Greenheck high wind roof curbs. Standard 12 inch (305 mm) in height H-GPF curb has a 5 inch (127 mm) flashing flange. Roof curbs ship separate for field installation with attachment details provided.

Internal Supports - Heavy gauge supports and bracing are added for additional strength to withstand a wind of 150 mph.

Wheel - An aluminum, backward-inclined, non-overloading centrifugal wheel is utilized to generate high efficiency and minimal sound. Wheel cones are carefully matched to the venturi for maximum efficiency. Each wheel is robotically welded and statically and dynamically balanced for long life and quiet operation.

Disconnect Switch - NEMA-1 switch is factory mounted and wiring is provided from the motor as standard (other switches are available). All wiring and electrical components comply with the National Electric Codes (NEC) and are either UL listed or recognized.

Internal Conduit Chase - A large diameter conduit for installing electrical wiring through the curb cap into the motor compartment.

Fan Shaft - Is precisely sized, ground, and polished so the first critical speed is at least 25% over the maximum operating speed. Where the shaft makes contact with bearings, close tolerances result in longer bearing life.

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

Motor Cooling - Cooling fins located on top of fan wheel draw outside air through a large space between the fan shroud and the motor cover directly into the motor compartment. Positive motor cooling with fresh air results in maximum motor life.

Motor - Carefully matched to the fan load and is mounted out of airstream.

Motor Cover - Constructed of aluminum, machine punched, and attached with stainless steel hardware for easy removal and access to motor compartment and drive assembly.

Drive Assembly - Belts, pulleys, and keys are oversized 150% of driven horsepower. Machined cast pulleys are adjustable for final system balancing. Belts are static free and oil resistant.

Vibration Isolation - Vibration isolators support the drive assembly and wheel for long life and quiet operation.

Fan Shroud - One piece, heavy gauge aluminum with a rolled bead for extra strength directs exhaust air away from the mounting surface. The curb cap and integral deep spun venturi are attached to the windband and also constructed of aluminum to prevent corrosion.

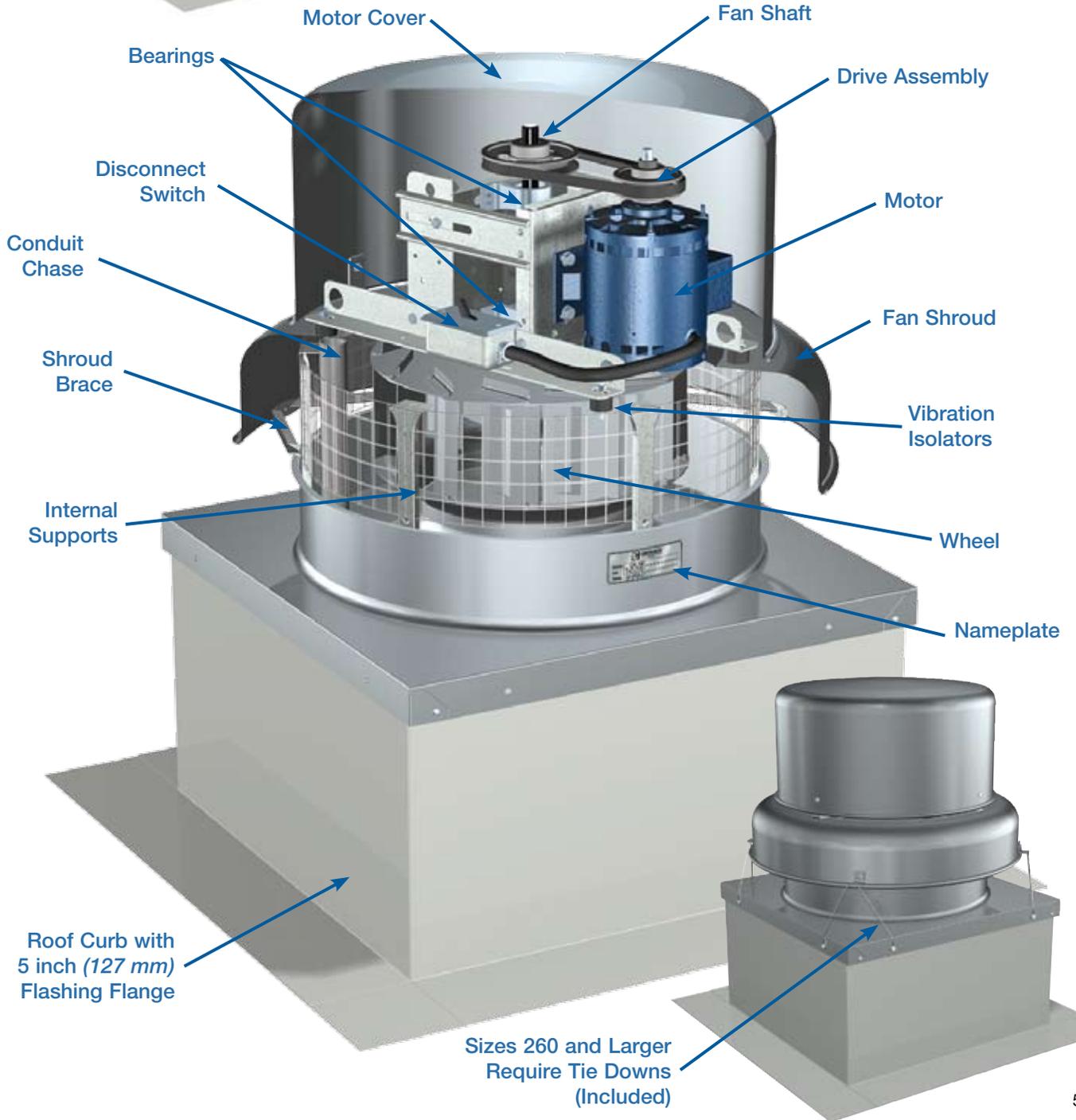
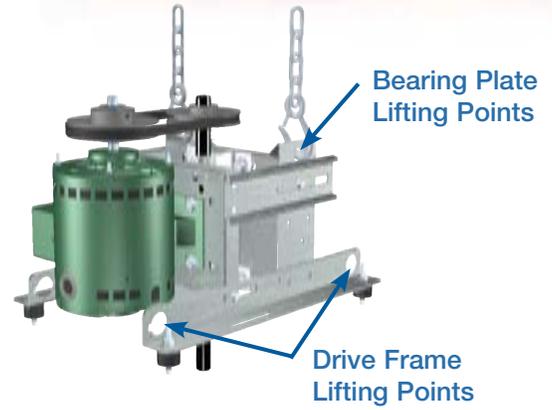
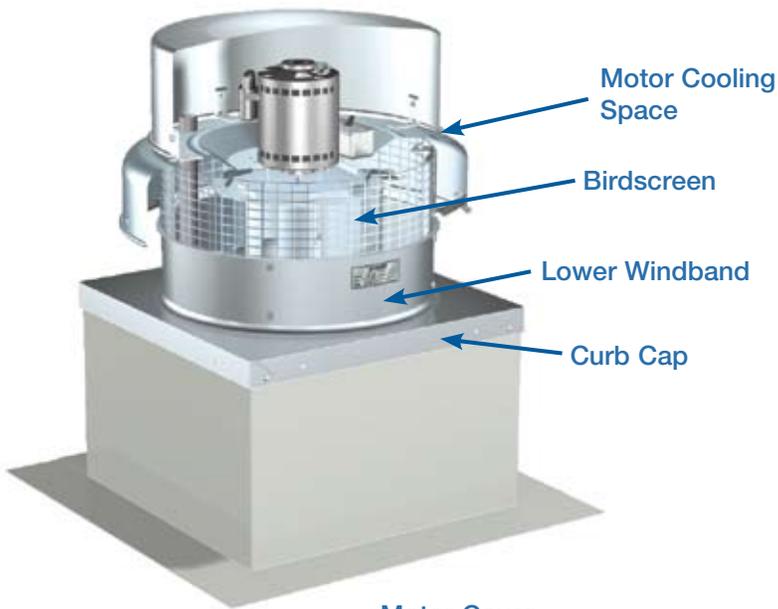
Nameplate - Permanent stamped aluminum plate for exact model and serial number identification.

Galvanized Birdscreen - Galvanized rigid wire protects the fan's discharge from birds or small objects.

Curb Cap - Curb cap (with integral deep spun venturi) is constructed of aluminum and is one piece for a weather-tight fit.

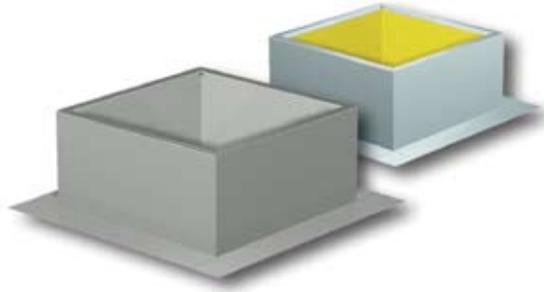
Lower Windband - Heavy gauge aluminum with formed edges for added strength and provide weather resistance.

Lifting Points - Select models have various lifting points located on the drive frame and bearing plates.



Options and Accessories

Roof curbs are provided as a standard with the H-G and H-GB. The roof curb ships separate to allow for finishing of the roof prior to the fan installation.



- H-GPF is standard at 12 inch (305 mm) in height for typical applications.
- H-GPF is available up to 18 inch (460 mm) in height to meet greater height requirements.
- SD (Severe Duty) curbs are available to meet 24 inch (610 mm) curb requirements.
- Mounting details for the roof curb to the roof substrate and the fan to the roof curb are included with each H-G and H-GB fan.

Birdscreen - Galvanized mesh is standard, optional aluminum or stainless steel rigid wire are also available.

Coatings - Wide variety of coatings and colors are available. Greenheck coatings and resistance charts can be found in the coatings bulletin.



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.

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



Tie Down Points - Four brackets located on the shroud for securing the fan in heavy wind applications. Cables and anchors by others.

Speed Controllers - Available for use with shaded pole and permanent split capacitor (PSC) open motors on Model H-G fans. They provide an economical means of system balancing with direct drive fans.



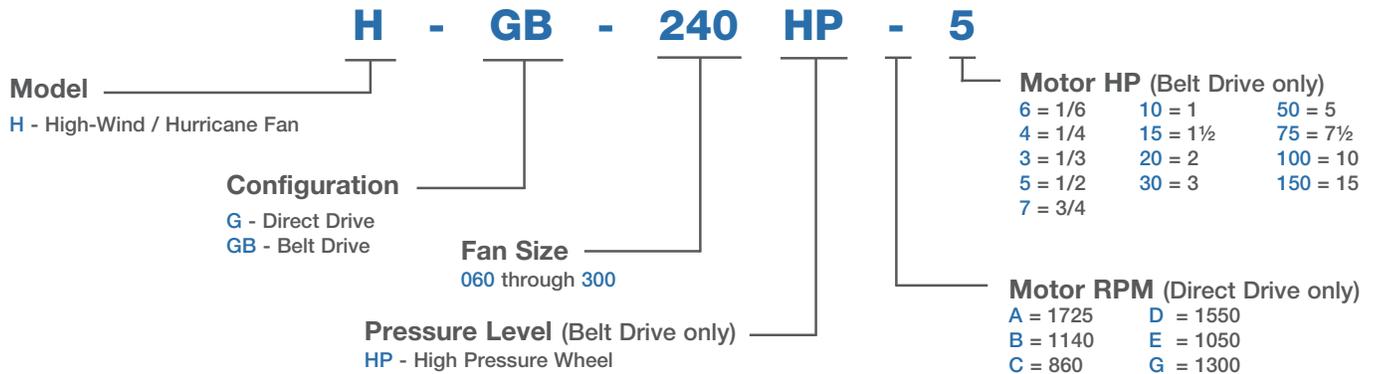
Curb Seal - Rubber seal between fan and curb to assure proper sealing when attached to a curb.



H-G and H-GB models are listed for electrical (UL/cUL 705) File no. E40001

Model Number Code

The Model Number Code 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.



Typical Installation

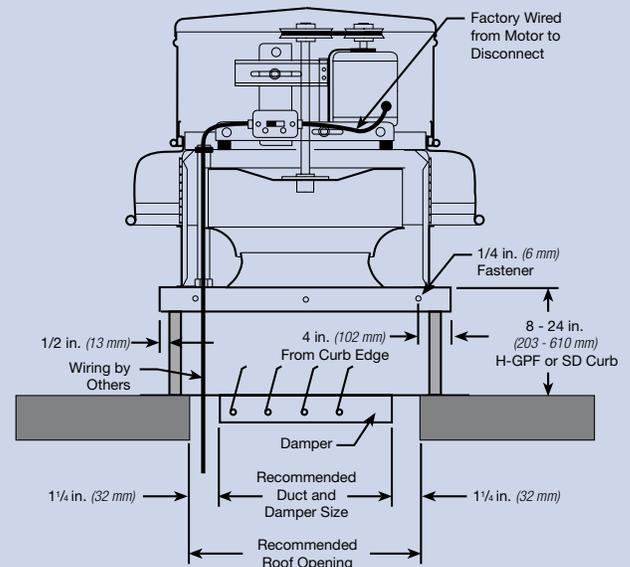
Models H-G and H-GB exhaust fans are designed to meet the needs of general clean air applications. Tests were conducted to assure safe, rugged and reliable fans.

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.

Roofing materials can extend to the top of the curb, roof curbs should be 1 inch (25 mm) total, or 1/2 inch (13 mm) on each side, less than the unit curb cap to allow for roofing and flashing.

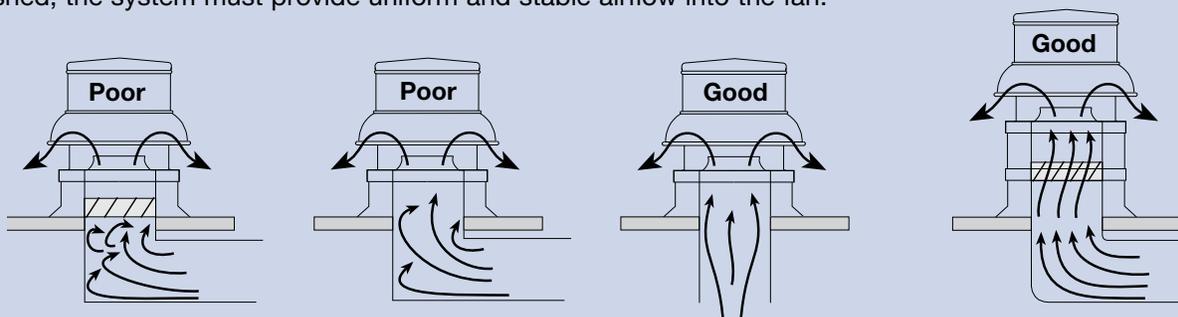
For recommended duct size, damper size, and roof opening dimensions, refer to the performance data pages.

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

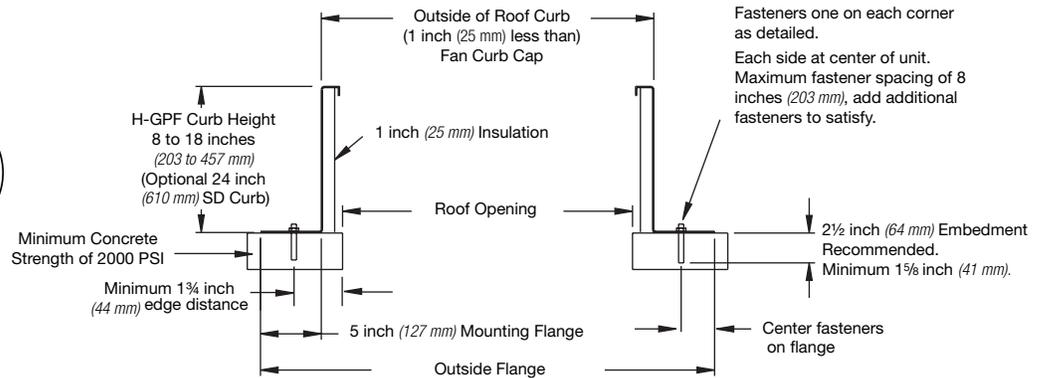
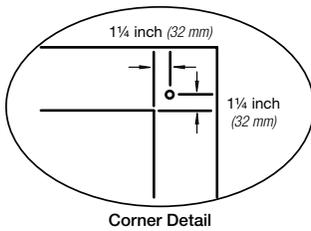


Fan Inlet Connections

In order to assure proper fan performance, caution must be exercised in fan placement and connection to the ventilation system. Obstructions, transitions, poorly designed elbows, improperly selected dampers, etc., can cause reduced performance, excessive noise, and increased mechanical stress. For performance to be as published, the system must provide uniform and stable airflow into the fan.



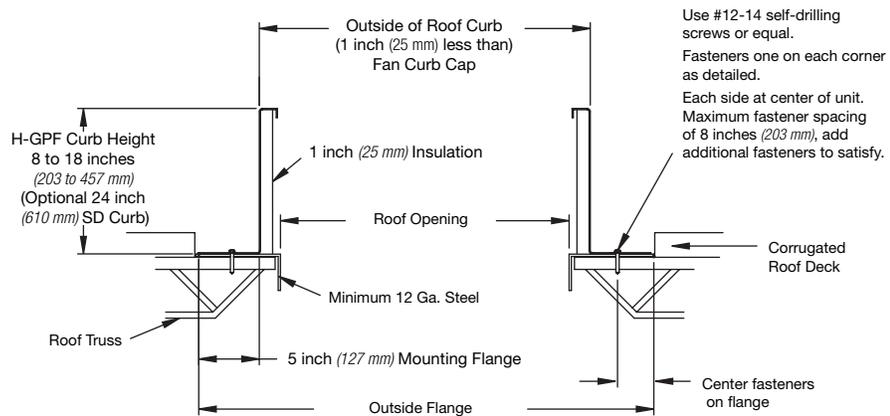
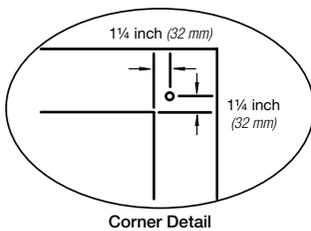
Concrete Deck Anchoring



H-G Size	H-GB Size	Fan Curb Cap	Roof Opening	Fasteners Per Side	Outside Flange
060 - 075	-	17 x 17 (432 x 432)	10 1/2 x 10 1/2 (267 x 267)	5	26 x 26 (660 x 660)
080 - 095	-	17 x 17 (432 x 432)	12 1/2 x 12 1/2 (318 x 318)	5	26 x 26 (660 x 660)
101 - 121	071 - 131	19 x 19 (483 x 483)	14 1/2 x 14 1/2 (368 x 368)	5	28 x 28 (711 x 711)
131 - 141	141 - 161	22 x 22 (559 x 559)	18 1/2 x 18 1/2 (470 x 470)	5	31 x 31 (787 x 787)
150	-	26 x 26 (660 x 660)	18 1/2 x 18 1/2 (470 x 470)	5	35 x 35 (889 x 889)
160 - 180	180 - 200	30 x 30 (762 x 762)	20 1/2 x 20 1/2 (521 x 521)	7	39 x 39 (991 x 991)
-	220 - 240	34 x 34 (864 x 864)	26 1/2 x 26 1/2 (673 x 673)	7	43 x 43 (1092 x 1092)
-	260 - 300	40 x 40 (1016 x 1016)	32 1/2 x 32 1/2 (826 x 826)	7	49 x 49 (1245 x 1245)

All dimensions in inches (millimeters).

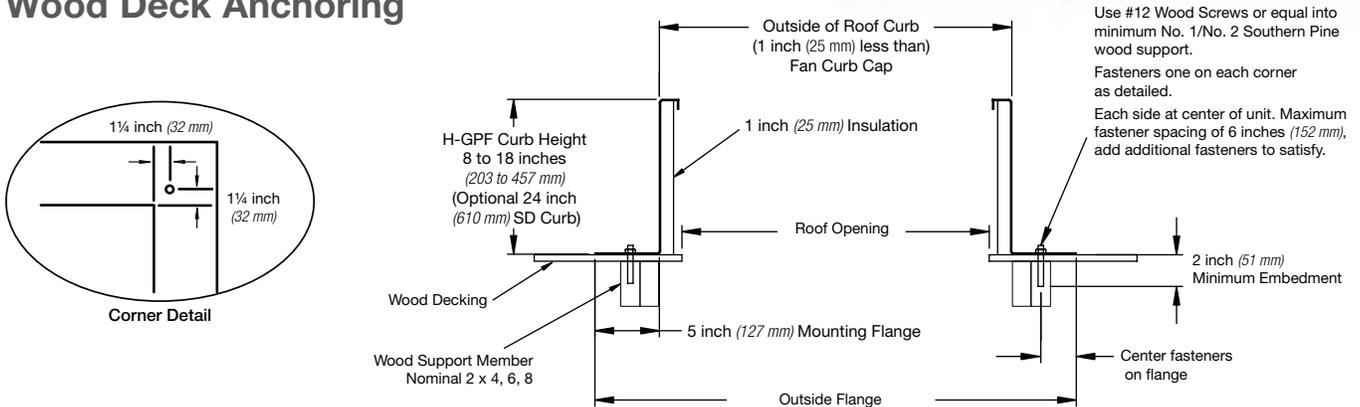
Metal Building/Steel Deck Anchoring



H-G Size	H-GB Size	Fan Curb Cap	Roof Opening	Fasteners Per Side	Outside Flange
060 - 075	-	17 x 17 (432 x 432)	10 1/2 x 10 1/2 (267 x 267)	5	26 x 26 (660 x 660)
080 - 095	-	17 x 17 (432 x 432)	12 1/2 x 12 1/2 (318 x 318)	5	26 x 26 (660 x 660)
101 - 121	071 - 131	19 x 19 (483 x 483)	14 1/2 x 14 1/2 (368 x 368)	5	28 x 28 (711 x 711)
131 - 141	141 - 161	22 x 22 (559 x 559)	18 1/2 x 18 1/2 (470 x 470)	5	31 x 31 (787 x 787)
150	-	26 x 26 (660 x 660)	18 1/2 x 18 1/2 (470 x 470)	5	35 x 35 (889 x 889)
160 - 180	180 - 200	30 x 30 (762 x 762)	20 1/2 x 20 1/2 (521 x 521)	7	39 x 39 (991 x 991)
-	220 - 240	34 x 34 (864 x 864)	26 1/2 x 26 1/2 (673 x 673)	7	43 x 43 (1092 x 1092)
-	260 - 300	40 x 40 (1016 x 1016)	32 1/2 x 32 1/2 (826 x 826)	7	49 x 49 (1245 x 1245)

All dimensions in inches (millimeters).

Wood Deck Anchoring

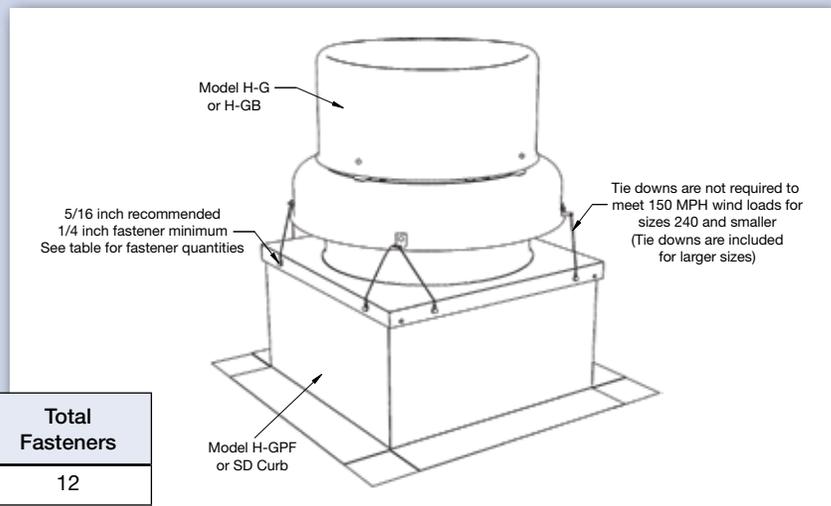


H-G Size	H-GB Size	Fan Curb Cap	Roof Opening	Fasteners Per Side	Outside Flange
060 - 075	-	17 x 17 (432 x 432)	10½ x 10½ (267 x 267)	5	26 x 26 (660 x 660)
080 - 095	-	17 x 17 (432 x 432)	12½ x 12½ (318 x 318)	5	26 x 26 (660 x 660)
101 - 121	071 - 131	19 x 19 (483 x 483)	14½ x 14½ (368 x 368)	5	28 x 28 (711 x 711)
131 - 141	141 - 161	22 x 22 (559 x 559)	18½ x 18½ (470 x 470)	5	31 x 31 (787 x 787)
150	-	26 x 26 (660 x 660)	18½ x 18½ (470 x 470)	7	35 x 35 (889 x 889)
160 - 180	180 - 200	30 x 30 (762 x 762)	20½ x 20½ (521 x 521)	7	39 x 39 (991 x 991)
-	220 - 240	34 x 34 (864 x 864)	26½ x 26½ (673 x 673)	7	43 x 43 (1092 x 1092)
-	260 - 300	40 x 40 (1016 x 1016)	32½ x 32½ (826 x 826)	9	49 x 49 (1245 x 1245)

All dimensions in inches (millimeters).

Typical Mounting

Fan to Curb

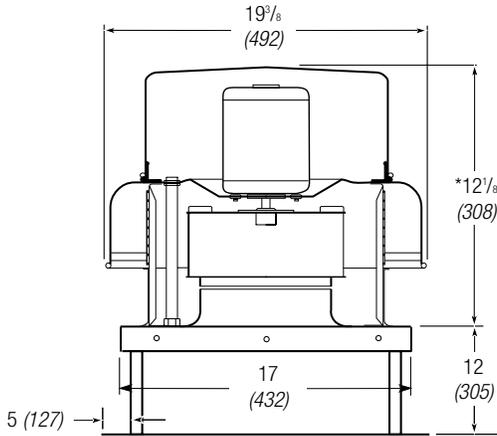


H-G Size	H-GB Size	Fasteners Per Side	Total Fasteners
060 - 141	071 - 161	3	12
150 - 180	180 - 300	5	20

Fasteners on each side of the fan are to be installed with one fastener 4 inches (102 mm) from each edge and one fastener centered. The remaining fasteners are to be equally spaced.

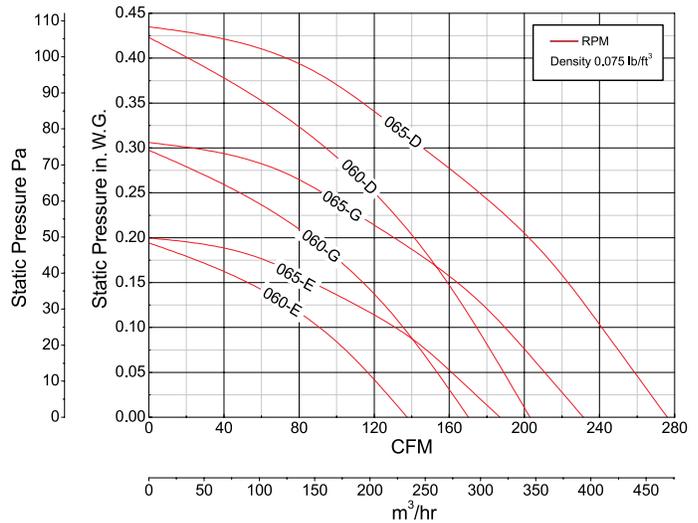
Fan to curb tie down is not required to meet 150 mph wind loads for sizes 240 and smaller.

H-G-060 and 065 - Direct Drive



Damper Size = 8 x 8 (203 x 203)
 Roof Opening = 10 1/2 x 10 1/2 (267 x 267)
 ^Approximate Unit Weight = 18 lb. (8 kg)

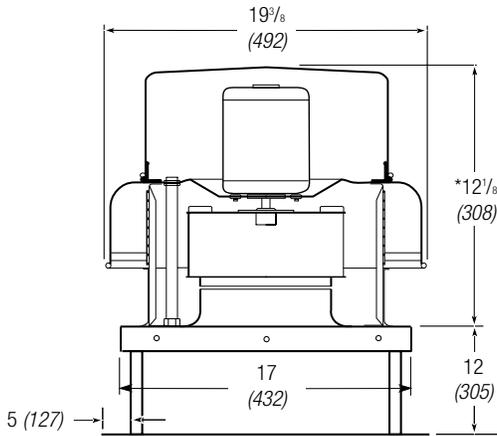
All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.



Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG											
			0	0.05	0.1	0.125	0.15	0.2	0.25	0.3	0.375	0.4		
H-G-060-E	1/200	1050	CFM	138	116	90	73	53						
			BHP	0.00	0.00	0.01	0.01	0.01						
			Sones	1.7	1.7	1.7	1.7	1.7						
H-G-060-G	1/100	1300	CFM	170	153	135	125	113	85					
			BHP	0.01	0.01	0.01	0.01	0.01	0.01					
			Sones	2.9	2.8	2.8	2.7	2.7	2.6					
H-G-060-D	1/60	1550	CFM	203	188	173	166	158	140	120	92			
			BHP	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.2			
			Sones	4.2	3.9	3.8	3.8	3.8	3.7	3.7	3.6			
H-G-065-E	1/100	1050	CFM	187	161	130	110	87						
			BHP	0.01	0.01	0.01	0.01	0.01						
			Sones	2.2	2.1	1.9	1.8	1.7						
H-G-065-G	1/60	1300	CFM	231	211	189	178	163	130	92				
			BHP	0.01	0.01	0.01	0.01	0.01	0.01	0.01				
			Sones	3.2	3.1	3.0	2.9	2.9	2.8	2.7				
H-G-065-D	1/30	1550	CFM	276	259	241	232	223	201	176	145	96		
			BHP	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02		
			Sones	4.9	4.6	4.5	4.5	4.4	4.3	4.3	4.1	4.0		

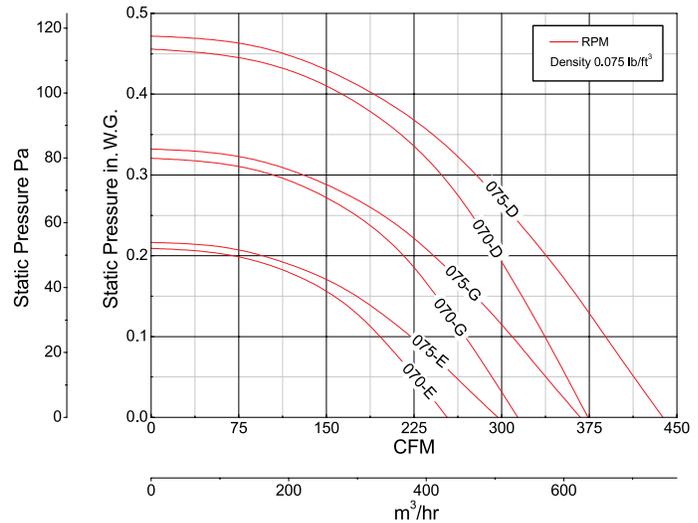
Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: Free inlet hemispherical fan sone levels.

H-G-070 and 075 - Direct Drive



Damper Size = 8 x 8 (203 x 203)
 Roof Opening = 10 1/2 x 10 1/2 (267 x 267)
 ^Approximate Unit Weight = 18 lb. (8 kg)

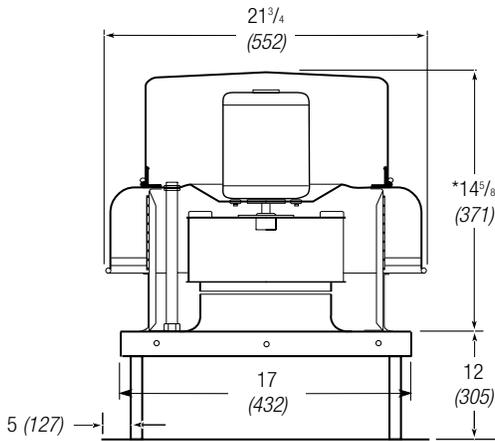
All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.



Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG											
			0	0.05	0.1	0.125	0.15	0.2	0.25	0.3	0.375	0.4		
H-G-070-E	1/100	1050	CFM	253	226	195	179	152						
			BHP	0.01	0.01	0.01	0.01	0.01						
			Sones	2.7	2.1	1.7	1.5	1.2						
H-G-070-G	1/60	1300	CFM	314	292	269	2557	244	214	171				
			BHP	0.01	0.1	0.02	0.02	0.02	0.02	0.02				
			Sones	4.1	3.7	3.4	3.3	3.2	2.9	2.6				
H-G-070-D	1/30	1550	CFM	374	356	337	327	317	297	274	244	190		
			BHP	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03		
			Sones	5.6	5.4	5.2	5.2	5.1	4.9	4.7	4.5	4.1		
H-G-075-E	1/80	1050	CFM	297	260	222	200	176						
			BHP	0.01	0.01	0.01	0.01	0.01						
			Sones	3.6	3.1	2.9	2.8	2.6						
H-G-075-G	1/50	1300	CFM	367	338	309	293	277	241	195				
			BHP	0.02	0.02	0.02	0.02	0.02	0.02	0.02				
			Sones	4.1	3.9	3.7	3.7	3.7	3.6	3.5				
H-G-075-D	1/25	1550	CFM	438	413	389	377	364	337	309	277	214		
			BHP	0.03	0.03	0.3	0.04	0.04	0.04	0.04	0.04	0.03		
			Sones	6.1	5.8	5.6	5.4	5.3	5.1	4.9	4.9	4.8		

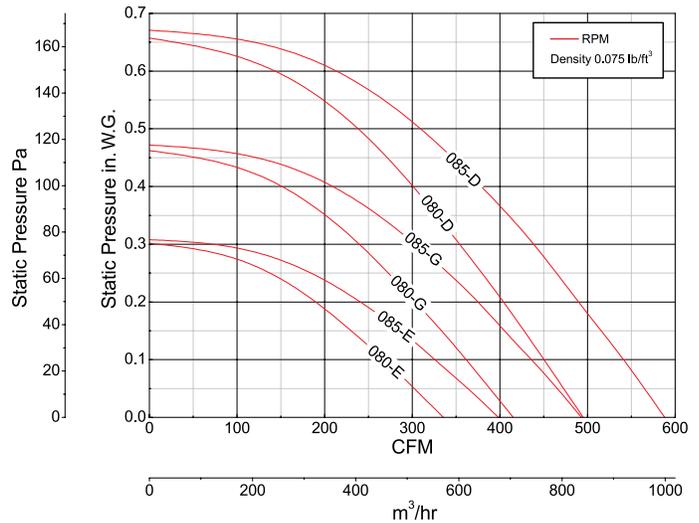
Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: Free inlet hemispherical fan sone levels.

H-G-080 and 085 - Direct Drive



Damper Size = 10 x 10 (254 x 254)
 Roof Opening = 12 1/2 x 12 1/2 (318 x 318)
 ^Approximate Unit Weight = 26 lb. (12 kg)

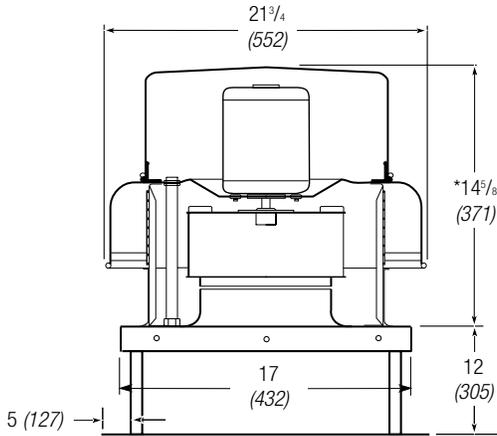
All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.



Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG										
			0	0.1	0.125	0.15	0.2	0.25	0.3	0.375	0.5	0.625	
H-G-080-E	1/40	1050	CFM	335	268	249	230	189	134				
			BHP	0.01	0.02	0.02	0.02	0.02	0.02				
			Sones	3.8	3.7	3.6	3.7	3.9	4.2				
H-G-080-G	1/30	1300	CFM	415	361	348	333	303	272	239	174		
			BHP	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
			Sones	5.4	5.4	5.4	5.4	5.4	5.5	5.6	5.9		
H-G-080-D	1/20	1550	CFM	495	450	439	427	404	379	354	314	237	
			BHP	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.6	
			Sones	7.3	7.3	7.3	7.3	7.3	7.2	7.3	7.3	7.6	
H-G-085-E	1/40	1050	CFM	398	326	307	286	240	179				
			BHP	0.01	0.02	0.02	0.02	0.02	0.02				
			Sones	4.0	3.9	3.9	3.9	4.1	4.3				
H-G-085-G	1/30	1300	CFM	493	436	420	405	375	340	302	233		
			BHP	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04		
			Sones	5.5	5.3	5.3	5.3	5.3	5.3	5.4	5.5		
H-G-085-D	1/20	1550	CFM	588	541	528	515	490	464	439	394	308	168
			BHP	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06
			Sones	7.6	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.6	8.1

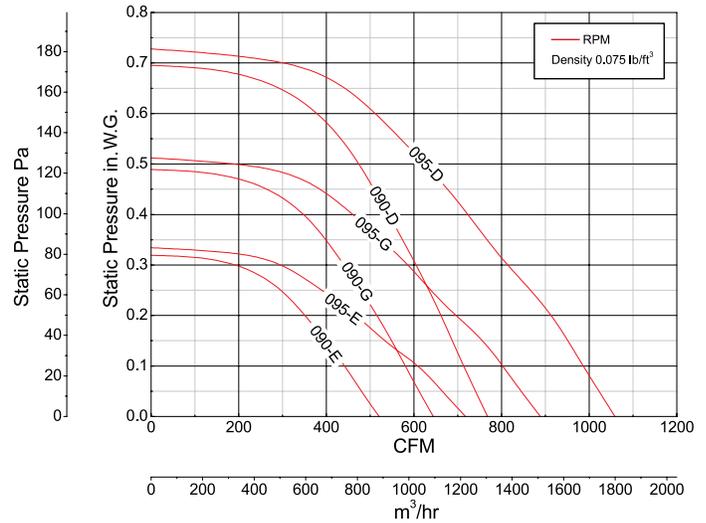
Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: Free inlet hemispherical fan sone levels.

H-G-090 and 095 - Direct Drive



Damper Size = 10 x 10 (254 x 254)
 Roof Opening = 12 1/2 x 12 1/2 (318 x 318)
 ^Approximate Unit Weight = 26 lb. (12 kg)

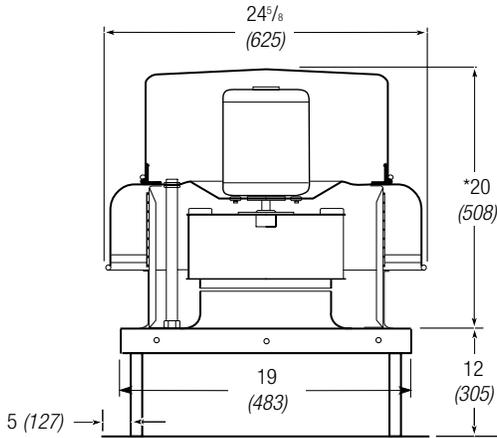
All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.



Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG										
			0	0.1	0.125	0.15	0.2	0.25	0.3	0.375	0.5	0.625	
H-G-090-E	1/40	1050	CFM	520	441	420	398	351	293				
			BHP	0.01	0.02	0.02	0.02	0.02	0.02				
			Sones	4.0	3.9	3.9	4.0	4.1	4.2				
H-G-090-G	1/25	1300	CFM	644	580	565	549	515	478	440	373		
			BHP	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.05		
			Sones	5.4	5.4	5.4	5.4	5.4	5.5	5.5	5.6		
H-G-090-D	1/15	1550	CFM	768	714	701	688	662	633	605	557	473	338
			BHP	0.05	0.05	0.06	0.06	0.06	0.06	0.07	0.07	0.08	0.07
			Sones	7.6	7.5	7.5	7.5	7.5	7.4	7.4	7.4	7.4	7.4
H-G-095-E	1/30	1050	CFM	717	606	570	534	468	389	290			
			BHP	0.03	0.03	0.04	0.04	0.04	0.04	0.03			
			Sones	5.4	4.5	4.5	4.5	4.4	4.5	4.6			
H-G-095-G	1/12	1300	CFM	888	802	780	754	695	640	586	493	184	
			BHP	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.07	0.05	
			Sones	7.6	6.8	6.7	6.6	6.5	6.4	6.4	6.4	6.8	
H-G-095-D	1/8	1550	CFM	1059	987	969	950	912	863	814	745	623	474
			BHP	0.10	0.10	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.11
			Sones	9.6	9.4	9.3	9.2	9.0	8.8	8.7	8.7	8.7	8.7

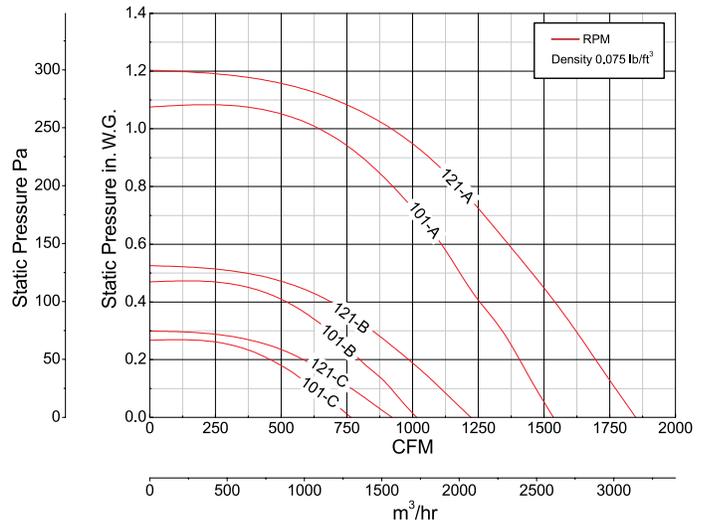
Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: Free inlet hemispherical fan sone levels.

H-G-101 and 121 - Direct Drive



Damper Size = 12 x 12 (304 x 304)
 Roof Opening = 14 1/2 x 14 1/2 (368 x 368)
 ^Approximate Unit Weight = 43 lb. (20 kg)

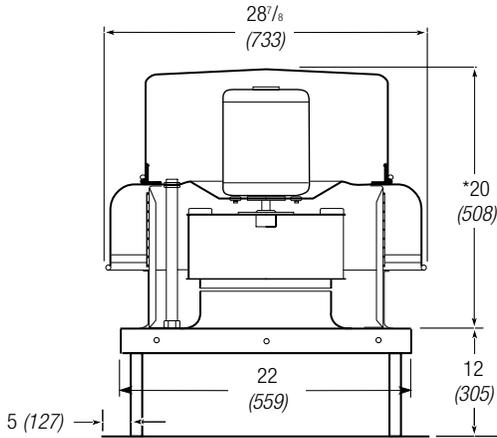
All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.



Model Number	HP (Size)	Fan RPM		CFM / Static Pressure in Inches WG											
				0	0.1	0.125	0.25	0.3	0.375	0.5	0.625	0.75	1		
H-G-101-C	1/8	860	CFM	766	625	588									
			BHP	0.02	0.03	0.03									
			Sones	4.3	4.2	4.2									
H-G-101-B	1/6	1140	CFM	1015	917	893	747	683	569						
			BHP	0.05	0.06	0.06	0.06	0.06	0.06						
			Sones	7.1	7.0	7.0	6.8	6.8	6.6						
H-G-101-A	1/4	1725	CFM	1536	1470	1454	1374	1340	1277	1181	1086	974			
			BHP	0.17	0.18	0.19	0.20	0.20	0.20	0.21	0.22	0.22			
			Sones	12.1	11.9	11.8	11.6	11.5	11.3	11.2	11.3	11.7			
H-G-121-C	1/8	860	CFM	922	767	723	450								
			BHP	0.03	0.03	0.04	0.04								
			Sones	5.6	5.2	5.2	5.2								
H-G-121-B	1/6	1140	CFM	1222	1107	1078	918	848	734	335					
			BHP	0.06	0.07	0.07	0.08	0.09	0.09	0.07					
			Sones	8.1	7.9	7.9	7.8	7.8	8.1	9.8					
H-G-121-A	1/4	1725	CFM	1849	1772	1753	1659	1621	1560	1453	1341	1223	911		
			BHP	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.3	0.29		
			Sones	14.1	14.0	13.9	13.8	13.6	13.4	13.4	13.4	13.4	13.4	14.1	

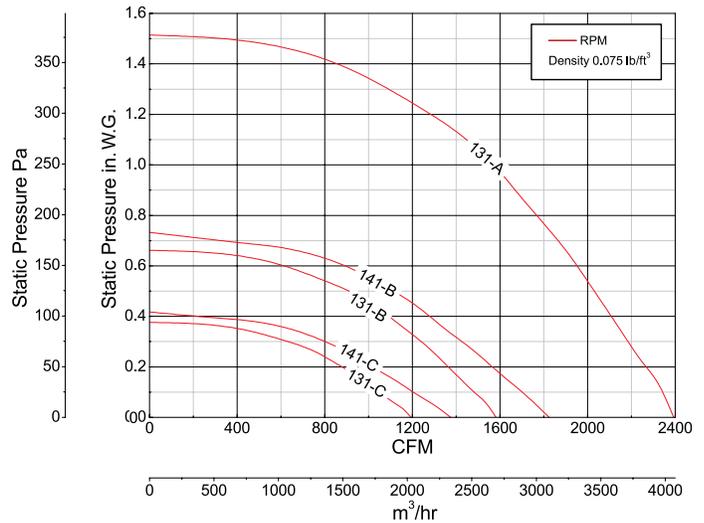
Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: Free inlet hemispherical fan sone levels.

H-G-131 and 141 - Direct Drive



Damper Size = 16 x 16 (406 x 406)
 Roof Opening = 18 1/2 x 18 1/2 (470 x 470)
 ^Approximate Unit Weight = 59 lb. (27 kg)

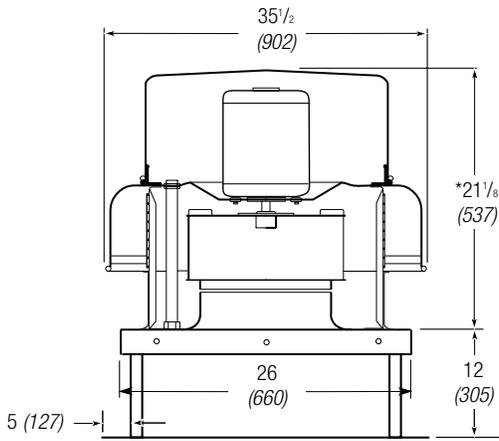
All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.



Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG											
			0	0.1	0.125	0.25	0.3	0.375	0.5	0.625	0.75	1		
H-G-131-C	1/8	860	CFM	1193	1050	1011	771	626						
			BHP	0.04	0.049	0.051	0.056	0.055						
			Sones	6.5	6.1	6.0	5.9	5.9						
H-G-131-B	1/6	1140	CFM	1581	1482	1452	1304	1239	1130	889				
			BHP	0.094	0.105	0.108	0.12	0.123	0.13	0.129				
			Sones	9.9	9.8	9.7	9.4	9.2	9.0	8.8				
H-G-131-A	1/2	1725	CFM	2393	2340	2327	2225	2186	2127	2030	1931	1817	1555	
			BHP	0.325	0.339	0.342	0.366	0.376	0.389	0.407	0.423	0.426	0.453	
			Sones	19.2	18.9	18.9	18.4	18.4	18.2	18.1	18.1	17.8	17.4	
H-G-141-C	1/8	860	CFM	1376	1205	1161	919	798	489					
			BHP	0.055	0.064	0.066	0.074	0.074	0.063					
			Sones	6.8	6.6	6.5	6.4	6.6	8.0					
H-G-141-B	1/6	1140	CFM	1824	1701	1667	1498	1425	1314	1113	794			
			BHP	0.129	0.141	0.144	0.158	0.163	0.17	0.175	0.158			
			Sones	10.4	10.4	10.3	9.8	9.5	9.1	8.7	8.4			

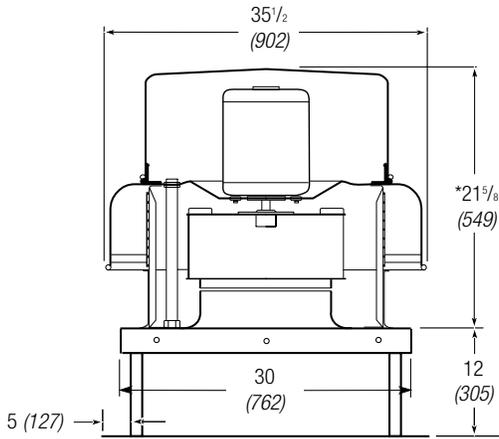
Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: Free inlet hemispherical fan sone levels.

H-G-150 and 160 - Direct Drive



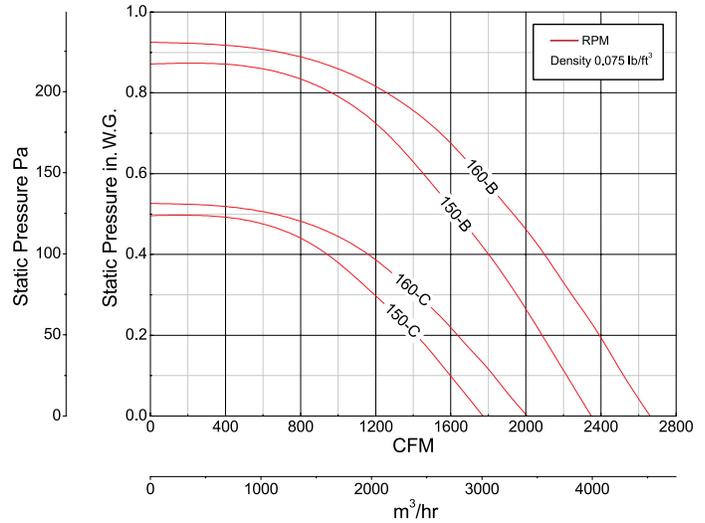
Model H-G-150

Damper Size = 16 x 16 (406 x 406)
Roof Opening = 18 1/2 x 18 1/2 (470 x 470)
^Approximate Unit Weight = 59 lb. (27 kg)



Models H-G-160

Damper Size = 18 x 18 (457 x 457)
Roof Opening = 20 1/2 x 20 1/2 (521 x 521)
^Approximate Unit Weight = 81 lb. (37 kg)

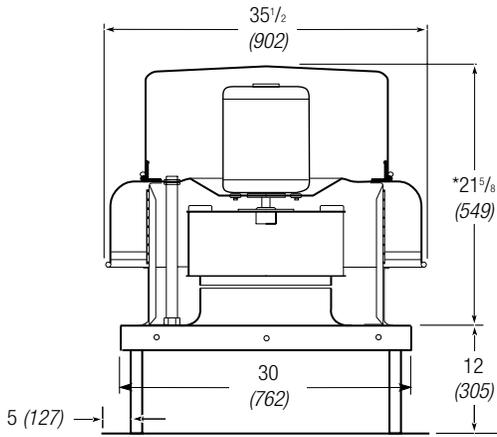


All dimensions in inches (millimeters). *May be greater depending on motor.
^Weight shown is largest cataloged Open Drip Proof motor.

Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG											
			0	0.1	0.125	0.2	0.25	0.3	0.375	.5	.625	.75		
H-G-150-C	1/8	860	CFM	1772	1598	1553	1415	1304	1194	1005				
			BHP	0.09	0.09	0.10	0.12	0.12	0.13	0.13				
			Sones	7.9	7.8	7.8	7.5	7.4	7.5	7.7				
H-G-150-B	1/4	1140	CFM	2349	2217	2185	2085	2017	1949	1836	1628	1397	1114	
			BHP	0.21	0.21	0.21	0.21	0.23	0.25	0.27	0.29	0.29	0.28	
			Sones	11.7	11.6	11.6	11.3	11.1	11.0	10.9	11.2	11.8	12.8	
H-G-160-C	1/8	860	CFM	2008	1828	1784	1637	1535	1421	1230				
			BHP	0.10	0.11	0.12	0.13	0.13	0.13	0.14				
			Sones	8.0	7.7	7.7	7.5	7.4	7.3	7.3				
H-G-160-B	1/3	1140	CFM	2662	2521	2489	2392	2319	2245	2135	1933	1697	1411	
			BHP	0.23	0.25	0.25	0.27	0.28	0.28	0.29	0.31	0.32	0.32	
			Sones	13.6	13.4	13.4	13.3	13.1	13.1	13.1	12.9	12.7	12.6	

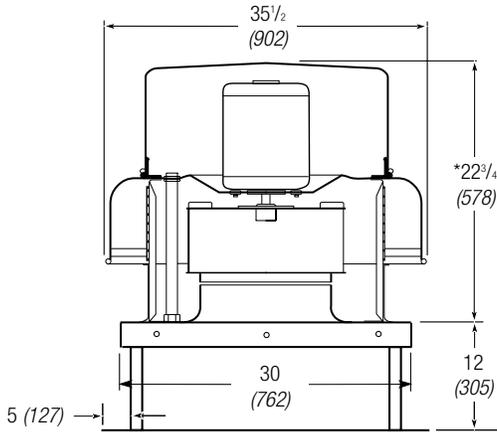
Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: Free inlet hemispherical fan sone levels.

H-G-170 and 180 - Direct Drive



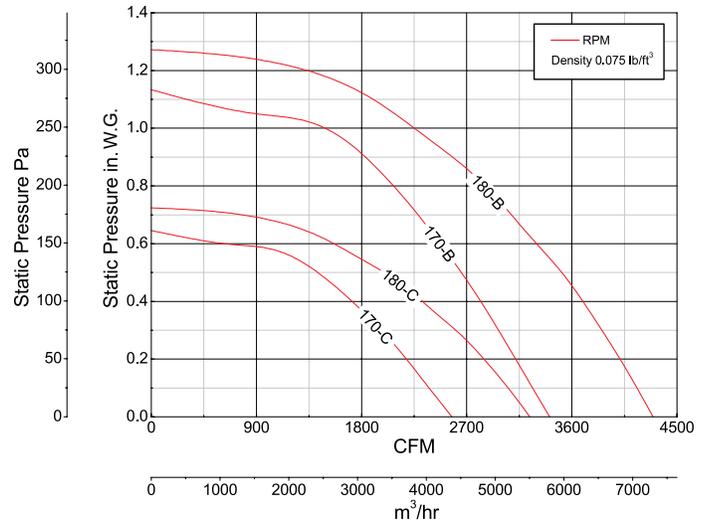
Models H-G-170

Damper Size = 18 x 18 (457 x 457)
 Roof Opening = 20 1/2 x 20 1/2 (521 x 521)
 ^Approximate Unit Weight = 81 lb. (37 kg)



Model H-G-180

Damper Size = 18 x 18 (457 x 457)
 Roof Opening = 20 1/2 x 20 1/2 (521 x 521)
 ^Approximate Unit Weight = 118 lb. (54 kg)

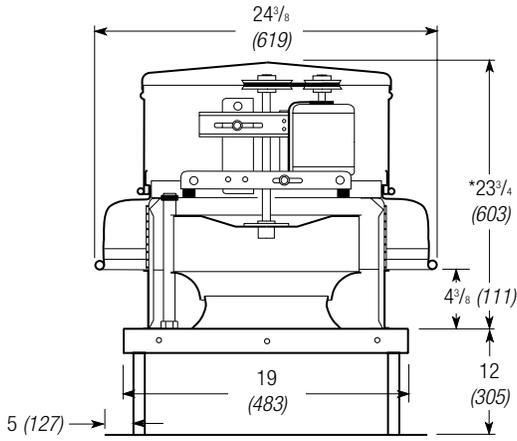


All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip Proof motor.

Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG										
			0	0.1	0.125	0.25	0.3	0.375	0.5	0.625	0.75	1	
H-G-170-C	1/4	860	CFM	2572	2379	2330	2077	1961	1782	1416			
			BHP	0.172	0.187	0.191	0.208	0.214	0.223	0.228			
			Sones	9.7	9.6	9.5	9.2	9.1	9.1	9.1			
H-G-170-B	1/2	1140	CFM	3409	3263	3227	3043	2969	2857	2647	2428	2181	1457
			BHP	0.4	0.421	0.426	0.45	0.46	0.473	0.494	0.514	0.532	0.488
			Sones	16.3	16.2	16.2	16.1	16.1	16.1	16.1	16.1	16.1	16.1
H-G-180-C	1/3	860	CFM	3240	3053	3002	2733	2603	2390	1978	1438		
			BHP	0.24	0.262	0.268	0.296	0.306	0.321	0.332	0.316		
			Sones	12.1	12.4	12.4	12.5	12.5	12.3	11.9	11.9		
H-G-180-B	3/4	1140	CFM	4295	4156	4121	3933	3855	3731	3509	3241	2971	2246
			BHP	0.559	0.589	0.596	0.634	0.649	0.671	0.707	0.74	0.771	0.759
			Sones	19.5	19.4	19.4	19.3	19.5	19.7	19.8	20	20	21

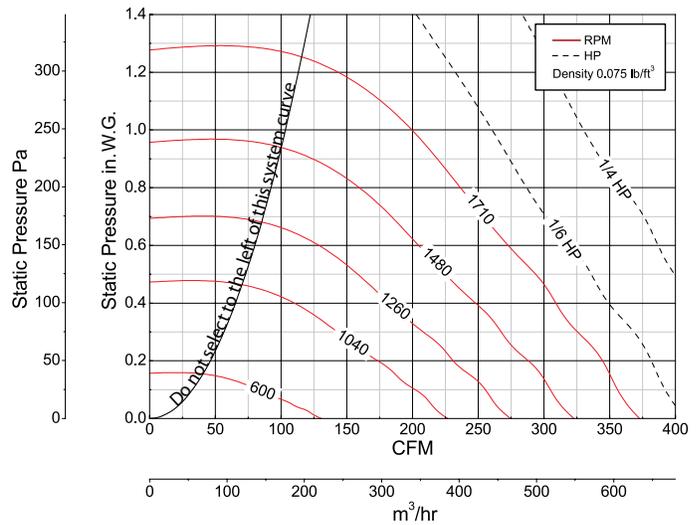
Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: Free inlet hemispherical fan sone levels.

H-GB-071 - Belt Drive



Damper Size = 12 x 12 (305 x 305)
 Roof Opening = 14 1/2 x 14 1/2 (368 x 368)
 Shroud Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 58 lb. (26 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

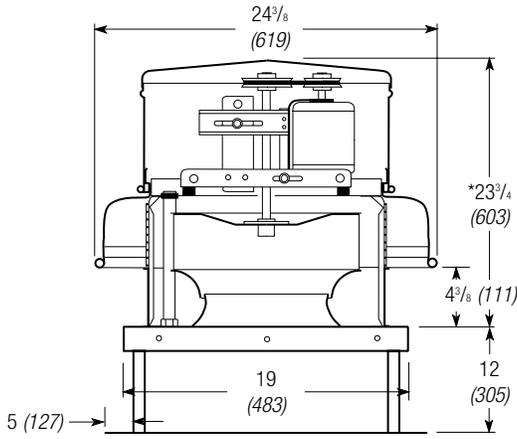


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG																	
			0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.125								
H-GB-071-6 or H-GB-071-4	1/6	630	CFM	137	79															
			BHP	0.01	0.01															
	1/4	738	CFM	161	112															
			BHP	0.01	0.01															
		846	CFM	184	144	95														
			BHP	0.02	0.02	0.01														
		954	CFM	208	172	132	76													
			BHP	0.02	0.02	0.02	0.02													
		1062	CFM	231	200	164	127													
			BHP	0.03	0.03	0.03	0.03													
		1170	CFM	255	227	196	162	123												
			BHP	0.04	0.04	0.04	0.04	0.04												
		1278	CFM	279	254	226	195	164	124											
			BHP	0.05	0.05	0.05	0.05	0.05	0.05	0.05										
		1386	CFM	302	280	253	226	197	169	129										
			BHP	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06									
		1494	CFM	326	305	280	257	230	203	177	138									
			BHP	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.07								
		1602	CFM	349	329	308	286	262	237	212	186	150								
			BHP	0.11	0.11	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.09							
		1710	CFM	373	353	335	312	292	269	246	223	198	164							
			BHP	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.11						
			Sones	11.1	11.0	11.0	10.6	10.3	10.0	9.8	9.5	9.3	9.1							

MAXIMUM BHP AT A GIVEN RPM = (RPM/3371)³
 MAXIMUM RPM = 1710
 TIP SPEED (ft/min.) = RPM x 2.929
 MAXIMUM MOTOR FRAME SIZE = 56

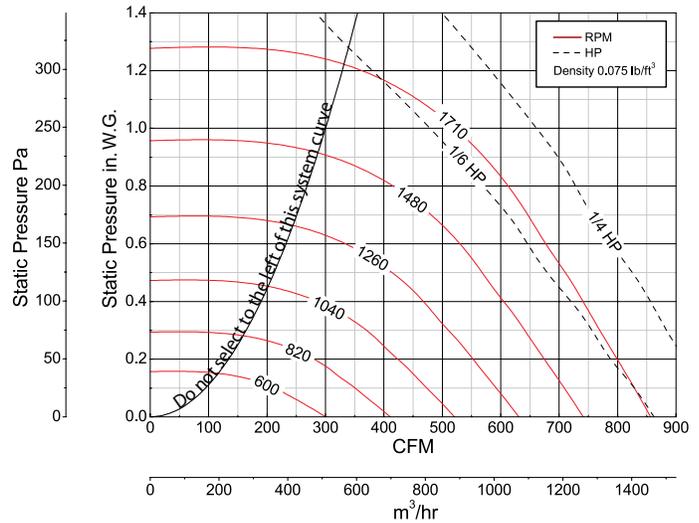
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-081 - Belt Drive



Damper Size = 12 x 12 (305 x 305)
 Roof Opening = 14 1/2 x 14 1/2 in. (368 x 368)
 Shroud Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 58 lb. (26 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

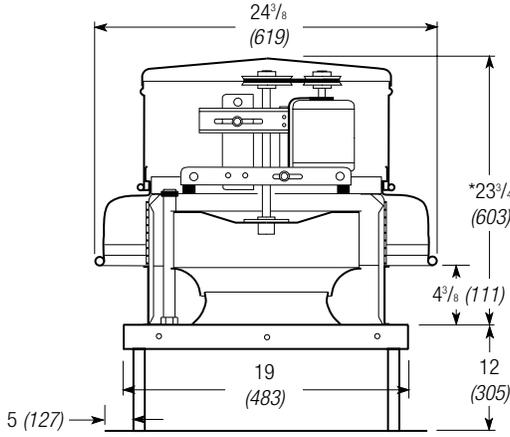


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG												
			0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.125			
H-GB-081-6 or H-GB-081-4	1/6	630	CFM	316	207										
			BHP	0.01	0.01										
	1/4	738	CFM	370	283										
BHP			0.01	0.02											
		864	CFM	433	361	265									
BHP	0.02		0.02	0.02											
		954	CFM	478	413	341									
BHP	0.03		0.03	0.03											
		1062	CFM	532	474	411	329								
BHP	0.04		0.04	0.05	0.04										
		1170	CFM	586	533	478	419	317							
BHP	0.05		0.06	0.06	0.06	0.06									
		1278	CFM	640	592	543	490	428	320						
BHP	0.07		0.07	0.08	0.08	0.08	0.07								
		1386	CFM	694	650	605	557	507	441	334					
BHP	0.09		0.09	0.10	0.10	0.10	0.10	0.09							
		1494	CFM	748	708	666	623	577	528	457	357				
BHP	0.11		0.12	0.12	0.12	0.12	0.13	0.12	0.11						
		1602	CFM	802	765	725	686	644	602	552	480	388			
BHP	0.14		0.14	0.15	0.15	0.15	0.15	0.16	0.15	0.14					
		1710	CFM	856	821	785	748	710	669	630	581	511	424		
BHP	0.17		0.17	0.18	0.18	0.19	0.19	0.19	0.19	0.18	0.17				
			Sones	12.5	12.3	12.1	11.9	11.5	11.2	10.9	10.6	10.5	10.3		

MAXIMUM BHP AT A GIVEN RPM = (RPM/2985)³
 MAXIMUM RPM = 1710
 TIP SPEED (ft/min.) = RPM x 2.929
 MAXIMUM MOTOR FRAME SIZE = 56

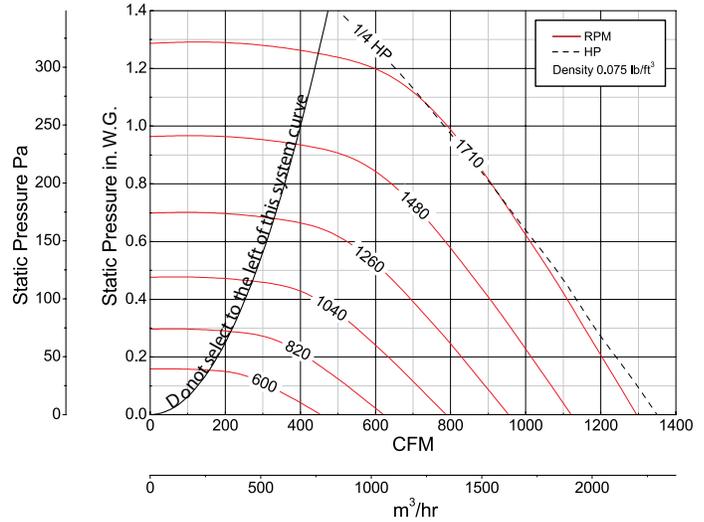
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-091 - Belt Drive



Damper Size = 12 x 12 (305 x 305)
 Roof Opening = 14¹/₂ x 14¹/₂ in. (368 x 368)
 Shroud Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 58 lb. (26 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

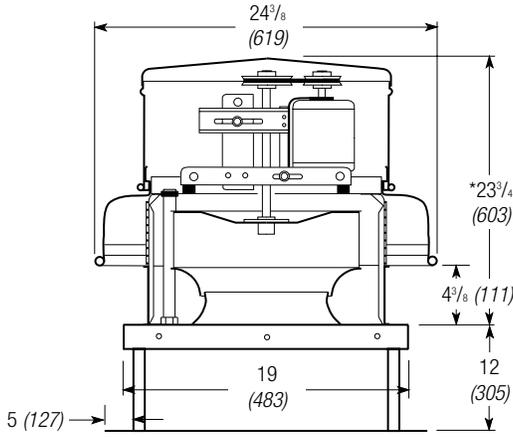


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG														
			0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.125					
H-GB-091-4	1/4	630	CFM	477	309												
			BHP	0.01	0.01												
			Sones	2.9	3.0												
		738	CFM	559	421												
			BHP	0.02	0.02												
			Sones	3.7	3.6												
		864	CFM	655	539	405											
			BHP	0.03	0.03	0.03											
			Sones	4.9	4.8	4.5											
		954	CFM	723	619	506	313										
			BHP	0.04	0.04	0.04	0.04										
			Sones	5.9	5.7	5.3	5.1										
1062	CFM	805	711	613	502												
	BHP	0.05	0.06	0.06	0.06												
	Sones	7.2	7.0	6.6	6.2												
1170	CFM	886	802	715	621	500											
	BHP	0.07	0.08	0.08	0.08	0.08											
	Sones	8.7	8.4	8.0	7.5	7.1											
1278	CFM	968	891	813	729	639	516										
	BHP	0.09	0.10	0.10	0.10	0.11	0.10										
	Sones	9.5	9.3	8.9	8.5	8.1	7.8										
1386	CFM	1050	979	907	832	752	666	545									
	BHP	0.12	0.12	0.13	0.13	0.13	0.14	0.13									
	Sones	10.3	10.1	9.9	9.5	9.1	8.8	8.5									
1494	CFM	1132	1066	999	932	860	785	698	584								
	BHP	0.15	0.15	0.16	0.16	0.17	0.17	0.17	0.16								
	Sones	11.2	11.1	10.9	10.6	10.2	9.9	9.6	9.3								
1602	CFM	1214	1152	1090	1028	962	894	823	738	631							
	BHP	0.18	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.20							
	Sones	12.3	12.1	12.0	11.8	11.4	11.1	10.8	10.5	10.2							
1710	CFM	1296	1238	1180	1122	1062	999	934	867	785	685						
	BHP	0.22	0.23	0.23	0.24	0.24	0.25	0.25	0.25	0.25	0.25						
	Sones	13.4	13.3	13.2	13.0	12.7	12.4	12.1	11.8	11.6	11.2						

MAXIMUM BHP AT A GIVEN RPM = (RPM/2703)³
 MAXIMUM RPM = 1710
 TIP SPEED (ft/min.) = RPM x 2.929
 MAXIMUM MOTOR FRAME SIZE = 56

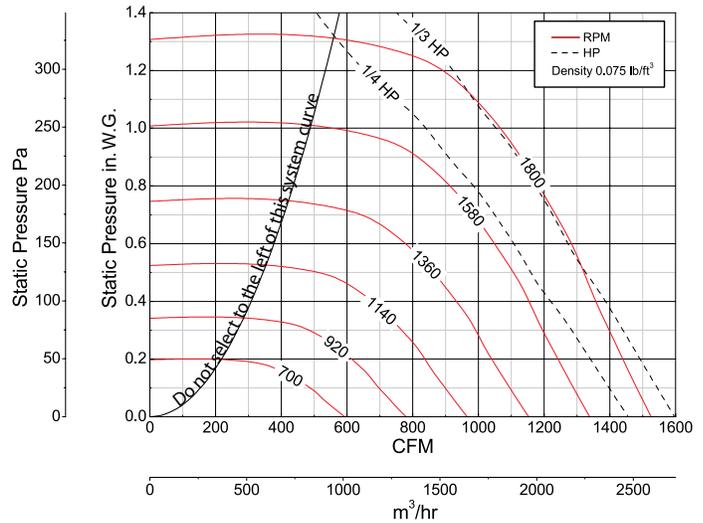
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-101 - Belt Drive



- Damper Size = 12 x 12 (305 x 305)
- Roof Opening = 14 1/2 x 14 1/2 (368 x 368)
- Shroud Thickness = 0.051 (1.3)
- Motor Cover Thickness = 0.040 (1.0)
- Curb Cap Thickness = 0.064 (1.6)
- ^Approximate Unit Weight = 63 lb. (29 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

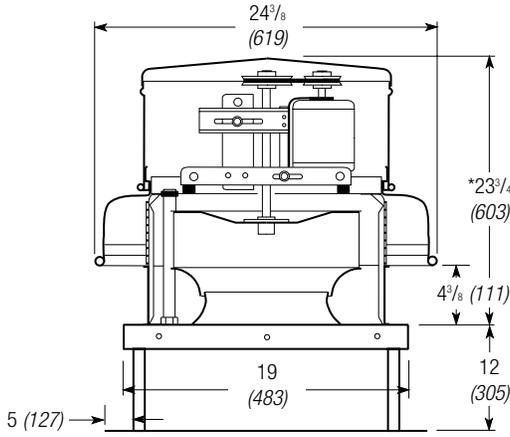


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG																	
			0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.25								
H-GB-101-4	1/4	830	CFM	703	594	420														
			BHP	0.03	0.03	0.03														
			Sones	4.5	3.5	2.6														
		930	CFM	788	688	572														
			BHP	0.04	0.04	0.05														
			Sones	5.1	4.3	3.7														
	1030	CFM	873	781	688	539														
		BHP	0.05	0.06	0.06	0.06														
		Sones	5.7	5.1	4.7	3.8														
	1130	CFM	958	873	795	690	420													
		BHP	0.07	0.08	0.08	0.08	0.07													
		Sones	6.5	5.9	5.6	5	3.6													
	1230	CFM	1042	965	894	807	693													
		BHP	0.09	0.10	0.11	0.11	0.11													
		Sones	7.3	6.8	6.5	6.2	5.5													
	1330	CFM	1127	1055	987	917	827	696												
		BHP	0.12	0.12	0.13	0.14	0.14	0.13												
		Sones	8.3	7.8	7.6	7.4	6.9	6.4												
1430	CFM	1212	1144	1080	1021	943	851	715												
	BHP	0.14	0.15	0.16	0.17	0.17	0.17	0.16												
	Sones	9.1	8.8	8.5	8.2	7.8	7.3	6.6												
1530	CFM	1297	1233	1173	1117	1053	975	883	744											
	BHP	0.18	0.18	0.19	0.20	0.21	0.21	0.21	0.19											
	Sones	10.0	9.7	9.5	9.1	8.6	8.2	7.8	7.1											
1635	CFM	1386	1326	1269	1215	1162	1095	1020	929	793										
	BHP	0.22	0.22	0.23	0.24	0.25	0.25	0.25	0.25	0.24										
	Sones	11.1	10.8	10.4	10.2	9.8	9.3	8.9	8.4	7.8										
H-GB-101-3	1/3	1718	CFM	1456	1399	1345	1291	1244	1185	1118	1043	943								
			BHP	0.25	0.26	0.27	0.28	0.29	0.29	0.29	0.29	0.29	0.29							
			Sones	12.1	11.7	11.3	11.1	10.8	10.2	9.8	9.4	8.9								
	1800	CFM	1526	1471	1419	1368	1321	1270	1209	1142	1065	793								
		BHP	0.29	0.30	0.30	0.31	0.33	0.34	0.34	0.34	0.34	0.34	0.34							
		Sones	13.2	12.8	12.5	12.3	12.2	11.3	10.8	10.6	10.1	9.3								

MAXIMUM BHP AT A GIVEN RPM = (RPM/2593)³
 MAXIMUM RPM = 1800
 TIP SPEED (ft/min.) = RPM x 2.913
 MAXIMUM MOTOR FRAME SIZE = 56

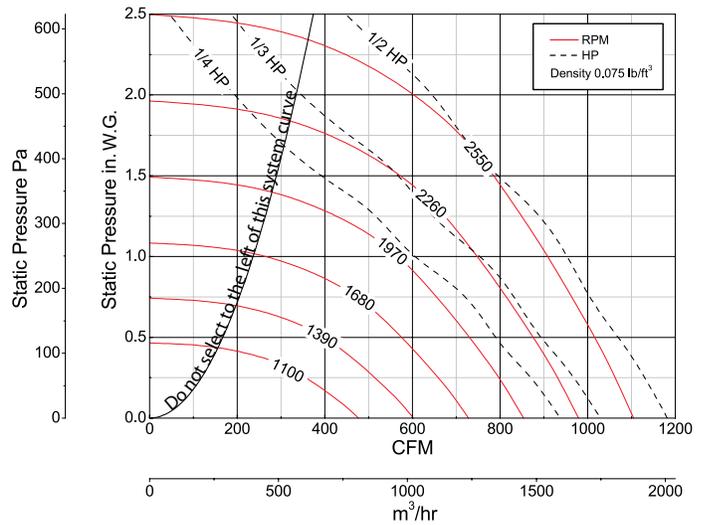
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-101HP - Belt Drive



Damper Size = 12 x 12 (305 x 305)
 Roof Opening = $14\frac{1}{2}$ x $14\frac{1}{2}$ (368 x 368)
 Shroud Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 63 lb. (29 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

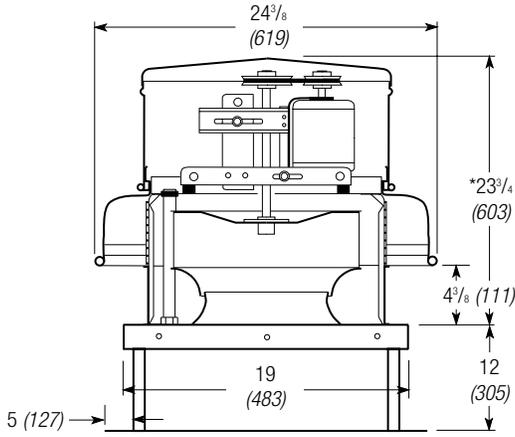


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG																			
			0	0.25	0.5	0.75	1	1.25	1.5	1.75	2	2.25										
H-GB-101HP-4	1/4	1300	CFM	571	477	342																
			BHP	0.06	0.06	0.07																
			Sones	6.6	5.7	5.3																
		1445	CFM	635	553	449	243															
			BHP	0.08	0.09	0.09	0.08															
			Sones	8.4	7.5	7.0	6.3															
		1590	CFM	699	626	537	417															
			BHP	0.10	0.11	0.12	0.12															
			Sones	10.4	9.5	9.1	8.3															
		1735	CFM	762	697	619	527	376														
			BHP	0.13	0.15	0.15	0.16	0.15														
			Sones	11.5	10.8	10.7	10.3	10.2														
		1880	CFM	826	767	697	618	518	337													
			BHP	0.17	0.18	0.20	0.20	0.21	0.18													
			Sones	12.7	12.2	11.9	12	11.4	11.9													
2025	CFM	890	836	772	702	622	515	313														
	BHP	0.21	0.23	0.24	0.24	0.26	0.25	0.22														
	Sones	14.2	13.6	13.3	13.2	12.6	12	11.4														
H-GB-101HP-3	1/3	2137	CFM	939	889	830	765	693	607	474												
			BHP	0.25	0.26	0.28	0.28	0.30	0.30	0.28												
			Sones	15.4	14.8	14.4	14.2	13.4	13.1	12.1												
		2229	CFM	979	931	875	814	748	674	574	406											
			BHP	0.29	0.30	0.31	0.32	0.33	0.35	0.33	0.31											
			Sones	15.8	15.4	14.8	14.5	14.1	13.7	13.2												
H-GB-101HP-5	1/2	2336	CFM	1026	981	928	871	809	742	661	543	358										
			BHP	0.33	0.34	0.36	0.37	0.37	0.39	0.40	0.38	0.34										
			Sones	16.4	16.0	15.4	14.9	14.7	14.0	14.1	13.5	13.6										
		2443	CFM	1073	1030	981	927	869	807	739	649	519										
			BHP	0.38	0.39	0.41	0.42	0.42	0.44	0.46	0.44	0.42										
			Sones	17.3	16.9	16.4	16.0		14.9	14.5	14.7	15.0										
2550	CFM	1120	1078	1032	982	928	869	807	735	639	497											
	BHP	0.43	0.44	0.46	0.48	0.48	0.49	0.51	0.52	0.50	0.47											
	Sones	18.2	17.9	17.4	17.2	16.3	16.1	15.1	15.6	16.2	17.2											

MAXIMUM BHP AT A GIVEN RPM = $(RPM/3165)^3$
 MAXIMUM RPM = 2550
 TIP SPEED (ft/min.) = RPM x 2.978
 MAXIMUM MOTOR FRAME SIZE = 56

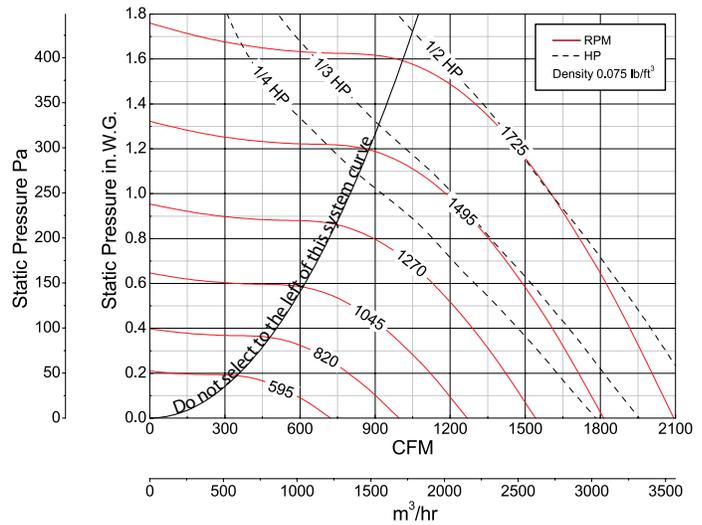
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-121 - Belt Drive



Damper Size = 12 x 12 (305 x 305)
 Roof Opening = 14 1/2 x 14 1/2 (368 x 368)
 Shroud Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 66 lb. (30 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

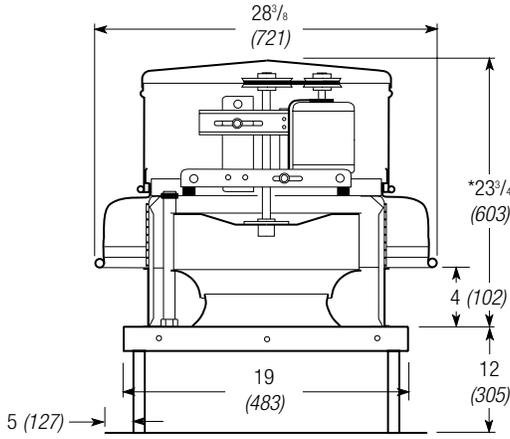


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG																
			0	0.125	0.25	0.375	0.5	0.625	0.75	1	1.25	1.5							
H-GB-121-4	1/4	595	CFM	722	542														
			BHP	0.02	0.02														
			Sones	3.3	3.4														
		728	CFM	883	747	543													
			BHP	0.03	0.04	0.04													
			Sones	4.2	4.3	4.2													
	861	CFM	1044	933	798	584													
		BHP	0.05	0.06	0.06	0.06													
		Sones	5.4	5.5	5.2	5.2													
	994	CFM	1206	1111	1004	872	673												
		BHP	0.08	0.09	0.09	0.10	0.09												
		Sones	6.7	6.7	6.6	6.4	6.3												
1127	CFM	1367	1284	1195	1092	969	799												
	BHP	0.11	0.12	0.13	0.14	0.14	0.13												
	Sones	8.2	8.2	8.2	7.9	7.8	7.7												
1260	CFM	1528	1454	1377	1292	1196	1084	938											
	BHP	0.16	0.17	0.18	0.19	0.19	0.19	0.19											
	Sones	10.1	10.1	10.0	9.9	9.6	9.5	9.3											
1395	CFM	1692	1625	1557	1484	1404	1315	1214	907										
	BHP	0.21	0.23	0.24	0.25	0.26	0.26	0.26	0.25										
	Sones	12.5	12.4	12.3	12.2	12.0	11.7	11.5	11.3										
H-GB-121-3	1/3	1473	CFM	1787	1723	1659	1591	1518	1438	1352	1127								
			BHP	0.25	0.27	0.28	0.29	0.30	0.31	0.31	0.30								
			Sones	13.5	13.4	13.3	13.1	12.9	12.7	12.4	12.0								
	1550	CFM	1880	1820	1759	1696	1629	1555	1475	1289	974								
		BHP	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.36	0.33								
		Sones	14.6	14.5	14.3	14.2	14.0	13.8	13.5	12.9	12.4								
H-GB-121-5	1/2	1638	CFM	1987	1930	1872	1814	1751	1684	1613	1452	1238							
			BHP	0.35	0.36	0.38	0.39	0.40	0.41	0.42	0.43	0.42							
			Sones	16.0	15.8	15.6	15.5	15.3	15.1	14.9	14.0	13.5							
	1725	CFM	2093	2038	1984	1928	1871	1810	1743	1600	1426	1180							
		BHP	0.40	0.42	0.44	0.45	0.46	0.47	0.48	0.50	0.50	0.48							
		Sones	17.4	17.2	17.0	16.8	16.7	16.4	16.2	15.5	14.9	14.0							

MAXIMUM BHP AT A GIVEN RPM = (RPM/2170)³
 MAXIMUM RPM = 1725
 TIP SPEED (ft/min.) = RPM x 3.420
 MAXIMUM MOTOR FRAME SIZE = 56

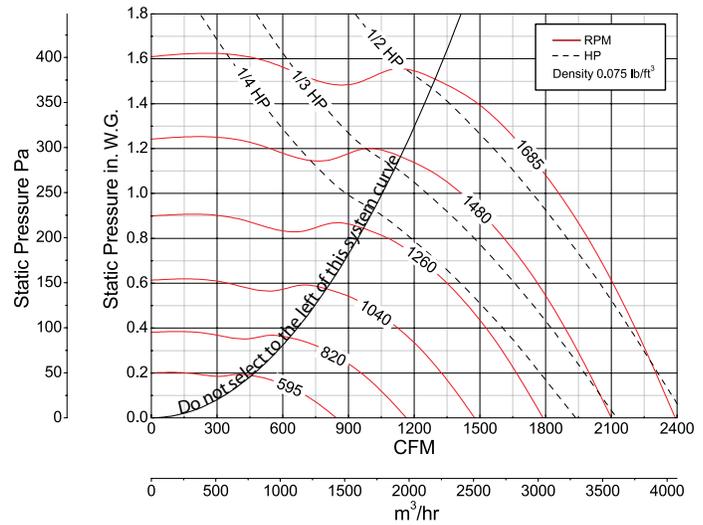
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-131 - Belt Drive



Damper Size = 12 x 12 (305 x 305)
 Roof Opening = 14 1/2 x 14 1/2 in. (368 x 368)
 Shroud Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 67 lb. (30 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

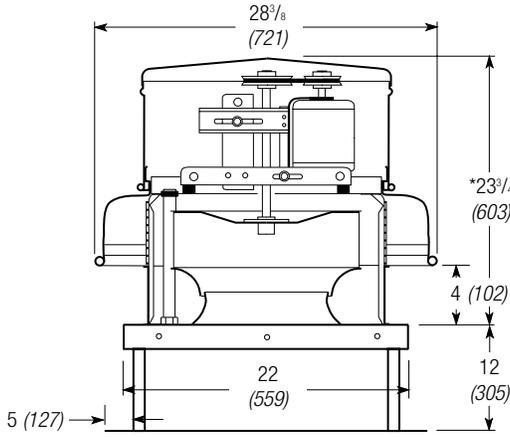


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG														
			0	0.125	0.25	0.375	0.5	0.625	0.75	1	1.25	1.5					
H-GB-131-4	1/4	595	CFM	844	655												
			BHP	0.02	0.02												
			Sones	4.5	4.6												
		700	CFM	993	845	585											
			BHP	0.03	0.04	0.04											
			Sones	5.2	5.2	5.0											
	800	CFM	1135	1012	843												
		BHP	0.05	0.06	0.06												
		Sones	6.0	6.0	5.7												
	900	CFM	1277	1169	1039	845											
		BHP	0.07	0.08	0.08	0.08											
		Sones	7.0	6.9	6.6	6.3											
1000	CFM	1419	1223	1213	1075	867											
	BHP	0.10	0.11	0.11	0.12	0.11											
	Sones	8.1	8.0	7.7	7.4	7.0											
1100	CFM	1516	1475	1381	1268	1124	898										
	BHP	0.13	0.14	0.15	0.15	0.16	0.15										
	Sones	9.5	9.2	9.0	8.6	8.3	7.9										
1200	CFM	1703	1624	1539	1443	1330	1191	964									
	BHP	0.17	0.18	0.19	0.20	0.20	0.20	0.19									
	Sones	11.1	10.8	10.5	10.1	9.7	9.4	8.8									
1315	CFM	1866	1794	1718	1637	1545	1435	1305									
	BHP	0.22	0.23	0.24	0.25	0.26	0.26	0.26									
	Sones	13.2	12.8	12.5	12.1	11.7	11.2	10.9									
H-GB-131-3	1/3	1440	CFM	2044	1978	1911	1838	1759	1674	1571	1299						
			BHP	0.294	0.306	0.318	0.327	0.336	0.344	0.347	0.342						
			Sones	15.0	15.0	15.1	15.1	14.5	13.9	13.4	12.5						
H-GB-131-5	1/2	1563	CFM	2218	2158	2097	2031	1964	1887	1807	1606	1300					
			BHP	0.375	0.389	0.402	0.413	0.424	0.432	0.44	0.445	0.427					
			Sones	16.0	15.8	15.6	15.5	15.2	14.8	14.3	13.6	12.8					
	1685	CFM	2391	2335	2279	2219	2158	2093	2020	1857	1654	1312					
		BHP	0.47	0.485	0.499	0.512	0.523	0.534	0.543	0.555	0.557	0.522					
		Sones	16.9	16.6	16.3	16.0	15.7	15.4	15.1	14.5	13.9	13.5					

MAXIMUM BHP AT A GIVEN RPM = (RPM/2047)³
 MAXIMUM RPM = 1685
 TIP SPEED (ft/min.) = RPM x 3.436
 MAXIMUM MOTOR FRAME SIZE = 56

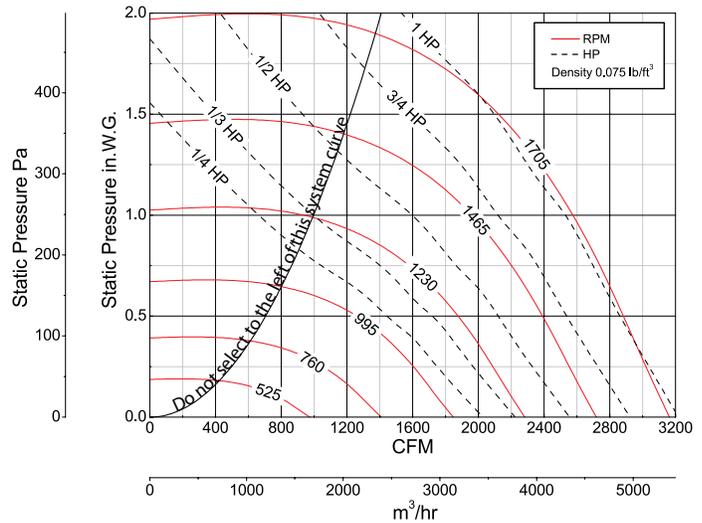
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-141 - Belt Drive



Damper Size = 16 x 16 (406 x 406)
 Roof Opening = 18 1/2 x 18 1/2 (470 x 470)
 Shroud Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 83 lb. (38 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

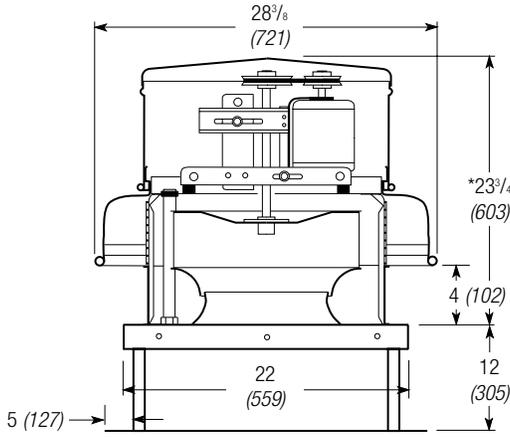


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG																			
			0	0.125	0.25	0.375	0.5	0.75	1	1.25	1.5	1.75										
H-GB-141-4	1/4	525	CFM	974	709																	
			BHP	0.03	0.03																	
			Sones	4.4	4.2																	
		663	CFM	1230	1046	732																
			BHP	0.06	0.06	0.06																
			Sones	5.3	5.5	4.4																
	801	CFM	1486	1337	1161	850																
		BHP	0.10	0.11	0.11	0.10																
		Sones	6.5	6.6	6.1	5.3																
	939	CFM	1742	1614	1482	1313	1040															
		BHP	0.16	0.17	0.17	0.18	0.16															
		Sones	7.9	7.8	7.5	7.0	6.4															
1075	CFM	1994	1882	1771	1647	1490																
	BHP	0.24	0.25	0.26	0.26	0.26																
	Sones	10.0	9.9	9.4	8.9	8.4																
H-GB-141-3	1/3	1170	CFM	2170	2067	1966	1859	1734	1356													
			BHP	0.31	0.32	0.33	0.33	0.34	0.32													
			Sones	11.4	11.3	10.8	10.3	9.9	8.7													
H-GB-141-5	1/2	1265	CFM	2347	2250	2158	2062	1955	1677	1048												
			BHP	0.39	0.40	0.41	0.42	0.42	0.42	0.35												
			Sones	12.9	12.7	12.3	11.9	11.4	10.4	8.8												
	1360	CFM	2523	2433	2347	2259	2166	1943	1602													
		BHP	0.48	0.50	0.51	0.52	0.52	0.53	0.51													
		Sones	14.6	14.3	13.9	13.5	13.1	12.2	11.0													
H-GB-141-7	3/4	1453	CFM	2695	2612	2530	2449	2365	2173	1914	1513											
			BHP	0.59	0.60	0.62	0.63	0.64	0.64	0.60												
			Sones	16.2	15.9	15.6	15.3	14.8	13.9	13.0	11.8											
	1545	CFM	2866	2787	2710	2634	2556	2384	2177	1890												
		BHP	0.71	0.72	0.74	0.75	0.76	0.77	0.78	0.75												
		Sones	17.6	18.0	17.4	17.1	16.8	14.9	14.7	14.7												
H-GB-141-10	1	1705	CFM	3163	3091	3020	2952	2883	2739	2574	2370	2120	1731									
			BHP	0.95	0.97	0.98	1.00	1.02	1.03	1.03	1.05	1.02	0.96									
			Sones	20	20	20	19.6	19.2	18.1	16.9	16.7	16.6	16.4									

MAXIMUM BHP AT A GIVEN RPM = (RPM/1676)³
 MAXIMUM RPM = 1705
 TIP SPEED (ft/min.) = RPM x 3.829
 MAXIMUM MOTOR FRAME SIZE = 145T

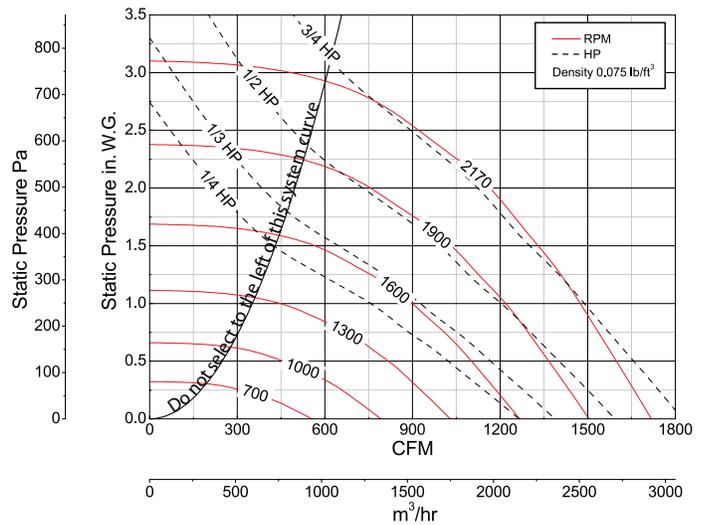
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-141HP - Belt Drive



- Damper Size = 16 x 16 (406 x 406)
- Roof Opening = 18 1/2 x 18 1/2 (470 x 470)
- Shroud Thickness = 0.051 (1.3)
- Motor Cover Thickness = 0.040 (1.0)
- Curb Cap Thickness = 0.064 (1.6)
- ^Approximate Unit Weight = 83 lb. (38 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

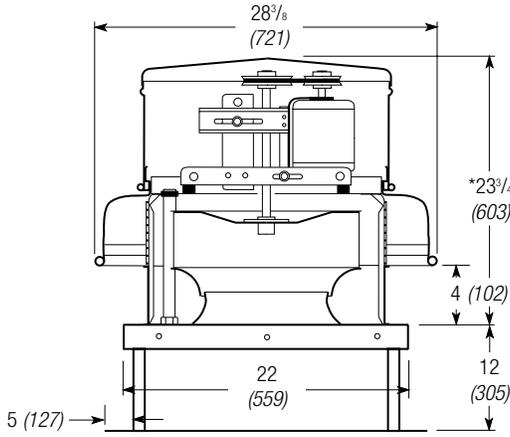


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG																				
			0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75											
H-GB-141HP-4	1/4	905	CFM	270																			
			BHP	0.05																			
			Sones	5.5																			
		1054		CFM	537																		
				BHP	0.09																		
				Sones	6.7																		
		1203		CFM	714	527																	
				BHP	0.13	0.13																	
				Sones	8.4	8.3																	
		1352		CFM	870	740	547																
				BHP	0.18	0.19	0.19																
				Sones	10.9	10.3	10.4																
	1500		CFM	1009	903	774	592																
			BHP	0.24	0.26	0.26	0.25																
			Sones	13.1	12.3	12.2	12.4																
H-GB-141HP-3	1/3	1655	CFM	1151	1064	959	833	668															
			BHP	0.32	0.34	0.35	0.35	0.34															
			Sones	15.0	14.1	13.3	13.1	13.6															
H-GB-141HP-5	1/2	1737	CFM	1224	1143	1048	946	802	619														
			BHP	0.37	0.38	0.40	0.40	0.40	0.38														
			Sones	16.4	15.6	14.9	14.4	14.4	15.0														
		1818		CFM	1295	1218	1133	1037	920	773	561												
				BHP	0.42	0.44	0.45	0.46	0.46	0.45	0.42												
				Sones	17.9	17.3	16.8	15.9	15.7	16.0	16.7												
	1900		CFM	1366	1294	1218	1127	1033	901	753													
			BHP	0.47	0.49	0.51	0.53	0.53	0.52	0.51													
			Sones	19.0	18.4	18.0	17.4	16.8	16.7	17.0													
H-GB-141HP-7	3/4	2035	CFM	1483	1417	1347	1269	1184	1095	969	832	633											
			BHP	0.57	0.60	0.62	0.63	0.65	0.65	0.64	0.63	0.59											
			Sones	21	20	19.6	19.1	18.6	18.4	18.1	18.2	18.5											
		2170		CFM	1598	1536	1472	1407	1328	1248	1163	1045	919	757									
				BHP	0.68	0.71	0.73	0.76	0.77	0.78	0.79	0.78	0.77	0.74									
				Sones	22	22	21	21	21	21	21	21	20	19.7	19.8								

MAXIMUM BHP AT A GIVEN RPM = (RPM/2351)³
 MAXIMUM RPM = 2170
 TIP SPEED (ft/min.) = RPM x 3.829
 MAXIMUM MOTOR FRAME SIZE = 145T

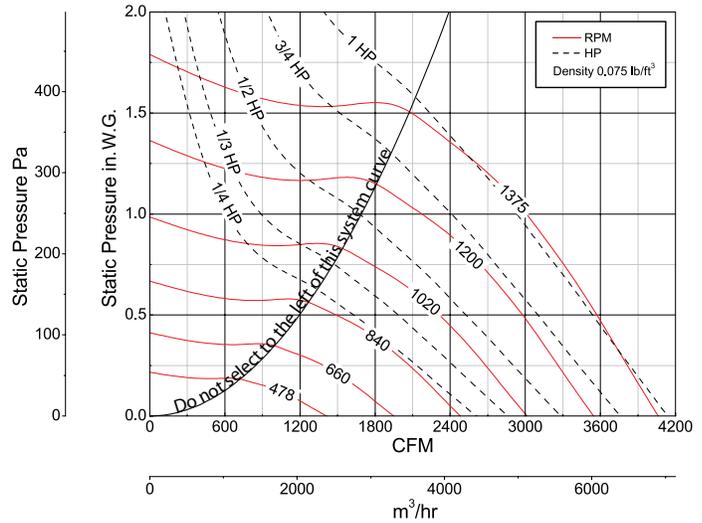
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-161 - Belt Drive



- Damper Size = 16 x 16 (406 x 406)
- Roof Opening = 18 1/2 x 18 1/2 (470 x 470)
- Shroud Thickness = 0.051 (1.3)
- Motor Cover Thickness = 0.040 (1.0)
- Curb Cap Thickness = 0.064 (1.6)
- ^Approximate Unit Weight = 89 lb. (40 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

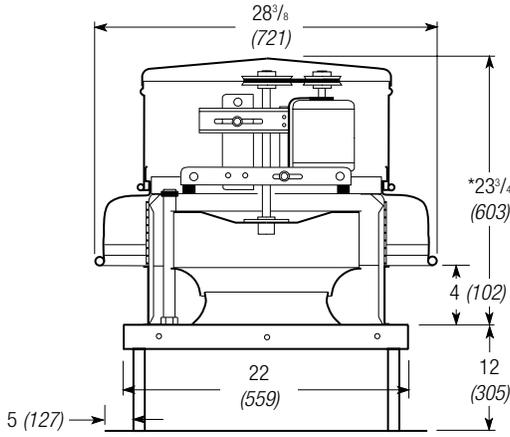


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG																		
			0	0.125	0.25	0.375	0.5	0.75	0.875	1	1.25	1.5									
H-GB-161-4	1/4	478	CFM	1412	1030																
			BHP	0.40	0.04																
			Sones	4.7	4.5																
		575	CFM	1698	1399	937															
				BHP	0.07	0.08	0.07														
				Sones	5.7	5.6	5.3														
		670	CFM	1979	1727	1429															
				BHP	0.11	0.12	0.12														
				Sones	7.0	6.7	6.5														
		765	CFM	2260	2040	1802	1494														
				BHP	0.16	0.17	0.18	0.18													
				Sones	8.6	8.2	8.0	7.5													
	865	CFM	2555	2360	2162	1933	1624														
			BHP	0.24	0.25	0.26	0.26	0.25													
			Sones	10.6	10.1	9.7	9.4	8.8													
H-GB-161-3	1/3	945	CFM	2791	2612	2434	2236	2010													
			BHP	0.31	0.32	0.33	0.34	0.34													
			Sones	12.6	12.0	11.5	11.2	10.7													
H-GB-161-5	1/2	1023	CFM	3022	2856	2693	2520	2327	1785												
			BHP	0.39	0.41	0.42	0.43	0.43	0.40												
			Sones	14.0	13.4	12.8	12.5	12.1	11.0												
		1100	CFM	3249	3095	2943	2787	2615	2198	1900											
				BHP	0.49	0.50	0.52	0.53	0.53	0.52	0.50										
				Sones	15.3	14.7	14.1	13.8	13.5	12.5	12.0										
H-GB-161-7	3/4	1175	CFM	3471	3326	3184	3040	2888	2541	2313	2025										
			BHP	0.59	0.61	0.62	0.64	0.65	0.65	0.64	0.61										
			Sones	16.5	16.0	15.5	15.1	14.8	14.0	13.6	13.0										
		1250	CFM	3692	3557	3422	3289	3149	2838	2658	2444										
				BHP	0.71	0.73	0.75	0.76	0.77	0.79	0.78	0.76									
				Sones	17.9	17.4	17.0	16.6	16.3	15.6	15.2	14.9									
H-GB-161-10	1	1375	CFM	4062	3938	3815	3694	3571	3304	3161	3007	2609	2073								
			BHP	0.95	0.97	0.99	1.01	1.02	1.04	1.05	1.04	1.01	0.93								
			Sones	21	20	19.6	19.2	18.9	18.4	18.0	17.6	17.2	15.4								

MAXIMUM BHP AT A GIVEN RPM = (RPM/1355)³
 MAXIMUM RPM = 1375
 TIP SPEED (ft/min.) = RPM x 4.352
 MAXIMUM MOTOR FRAME SIZE = 145T

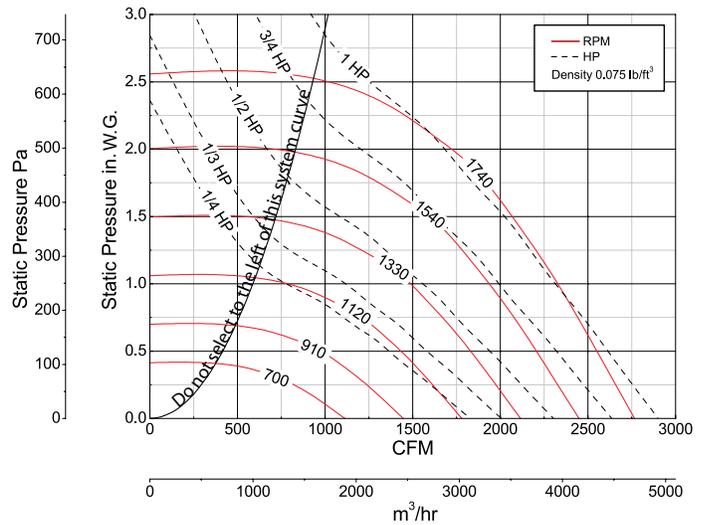
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-161HP - Belt Drive



Damper Size = 16 x 16 (406 x 406)
 Roof Opening = 18 1/2 x 18 1/2 (470 x 470)
 Shroud Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 89 lb. (40 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

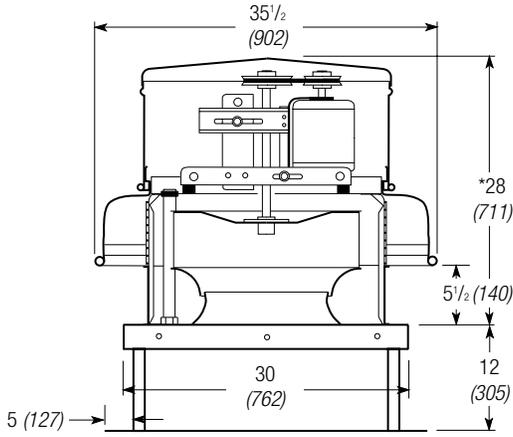


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG														
			0.5	0.625	0.75	1	1.25	1.5	1.75	2	2.25	2.5					
H-GB-161HP-4	1/4	825	CFM	702													
			BHP	0.11													
			Sones	6.5													
		960	CFM	1093	919	585											
			BHP	0.18	0.17	0.15											
			Sones	7.7	7.6	8.0											
1095	CFM	1380	1271	1139	589												
	BHP	0.26	0.26	0.26	0.21												
	Sones	9.0	9.0	8.9	9.5												
H-GB-161HP-3	1/3	1210	CFM	1606	1514	1416	1149										
			BHP	0.34	0.35	0.35	0.34										
			Sones	10.6	10.3	10.4	10.3										
H-GB-161HP-5	1/2	1270	CFM	1718	1636	1545	1333	949									
			BHP	0.39	0.40	0.40	0.41	0.37									
			Sones	11.4	11.2	11.1	11.1	11.4									
		1330	CFM	1829	1753	1668	1483	1204									
			BHP	0.44	0.45	0.46	0.47	0.45									
			Sones	12.3	12.1	11.9	12.1	12.0									
1390	CFM	1938	1865	1789	1619	1399	1032										
	BHP	0.50	0.51	0.52	0.53	0.53	0.48										
	Sones	13.3	13.0	12.8	12.7	12.7	13.1										
H-GB-161HP-7	3/4	1485	CFM	2109	2041	1973	1822	1654	1416	1012							
			BHP	0.60	0.61	0.63	0.64	0.65	0.63	0.57							
			Sones	14.9	14.7	14.4	13.8	13.7	14.0	14.7							
		1580	CFM	2275	2214	2150	2016	1868	1704	1447	1034						
			BHP	0.72	0.73	0.75	0.77	0.77	0.791	0.75	0.67						
			Sones	16.7	16.7	16.4	15.5	14.7	14.8	15.4	16.6						
H-GB-161HP-10	1	1660	CFM	2414	2357	2297	2175	2037	1887	1702	1441	996					
			BHP	0.82	0.84	0.85	0.89	0.89	0.91	0.90	0.86	0.75					
			Sones	18.3	18.8	18.3	16.7	16.2	15.8	15.8	17.1	20					
		1740	CFM	2551	2497	2442	2325	2200	2066	1917	1714	1452	987				
			BHP	0.94	0.96	0.97	1.01	1.03	1.03	1.05	1.03	0.98	0.85				
			Sones	20	21	21	18.4	17.5	17.2	16.8	17.2	19.2	28				

MAXIMUM BHP AT A GIVEN RPM = (RPM/1708)³
 MAXIMUM RPM = 1740
 TIP SPEED (ft/min.) = RPM x 4.352
 MAXIMUM MOTOR FRAME SIZE = 145T

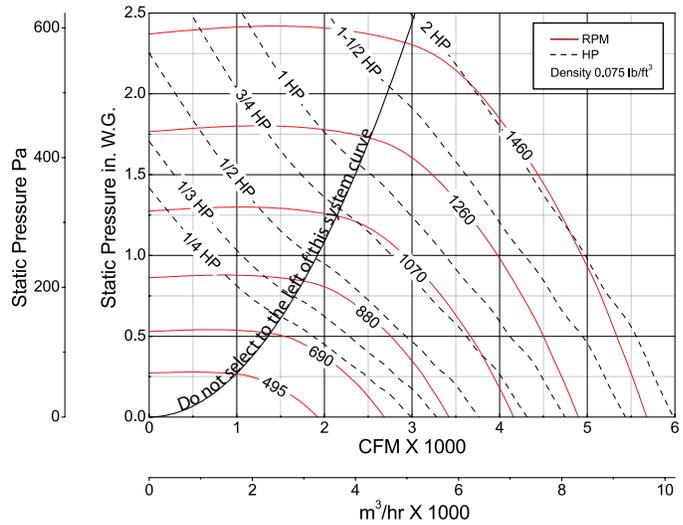
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-180 - Belt Drive



Damper Size = 18 x 18 (457 x 457)
 Roof Opening = 20 1/2 x 20 1/2 (521 x 521)
 Shroud Thickness = 0.064 (1.6)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 125 lb. (57 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

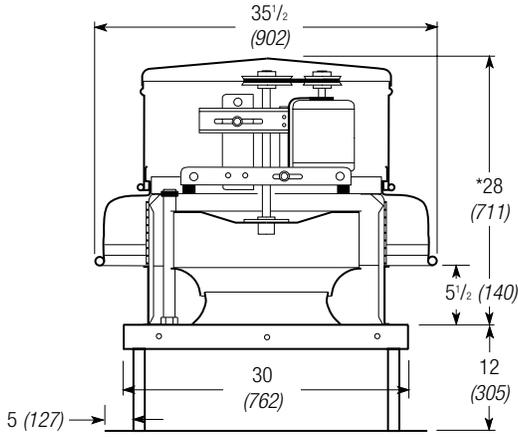


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG														
			0	0.125	0.25	0.5	0.75	1	1.25	1.5	1.75	2					
H-GB-180-4	1/4	495	CFM	1925	1646	1150											
			BHP	0.07	0.08	0.08											
			Sones	4.3	4.7	4.1											
		730	CFM	2839	2668	2469	1882										
			BHP	0.21	0.23	0.27	0.25										
			Sones	7.4	8.7	7.2	6.7										
H-GB-180-3	1/3	810	CFM	3150	2997	2832	2375										
			BHP	0.29	0.31	0.33	0.35										
			Sones	8.8	9.9	8.7	8.2										
		875	CFM	3402	3263	3113	2728	2144									
			BHP	0.37	0.38	0.41	0.44	0.43									
			Sones	10.5	11.1	10.2	9.4	8.5									
H-GB-180-5	1/2	940	CFM	3655	3527	3388	3052	2601									
			BHP	0.46	0.47	0.49	0.54	0.54									
			Sones	12.7	12.8	12.0	11.1	10.3									
		1055	CFM	4102	3990	3867	3596	3252	2811								
			BHP	0.65	0.67	0.68	0.74	0.77	0.77								
			Sones	16.2	15.7	14.9	14.0	12.9	12.4								
H-GB-180-10	1	1120	CFM	4355	4249	4134	3891	3587	3217	2686							
			BHP	0.77	0.79	0.81	0.88	0.92	0.93	0.89							
			Sones	17.5	16.9	16.4	15.5	14.5	13.8	13.0							
		1185	CFM	4608	4508	4401	4179	3900	3575	3178	2499						
			BHP	0.91	0.94	0.96	1.03	1.07	1.10	1.09	0.99						
			Sones	19.0	18.4	17.8	17.1	16.2	15.4	14.7	13.7						
H-GB-180-15	1 1/2	1260	CFM	4899	4805	4706	4498	4256	3977	3641	3223						
			BHP	1.10	1.12	1.15	1.21	1.27	1.32	1.32	1.29						
			Sones	21	19.9	19.3	18.8	18.0	17.3	16.8	16.1						
		1335	CFM	5191	5102	5010	4814	4599	4344	4052	3713	3262					
			BHP	1.31	1.33	1.36	1.41	1.49	1.54	1.57	1.56	1.51					
			Sones	22	22	21	21	19.9	19.2	18.7	18.2	17.6					
H-GB-180-20	2	1460	CFM	5677	5596	5514	5336	5155	4938	4699	4426	4123	3765				
			BHP	1.71	1.74	1.77	1.81	1.93	1.97	2.03	2.05	2.05	2.02				
			Sones	26	25	24	24	23	23	22	22	22	22	21			

MAXIMUM BHP AT A GIVEN RPM = (RPM/1149)³
 MAXIMUM RPM = 1460
 TIP SPEED (ft/min.) = RPM x 4.843
 MAXIMUM MOTOR FRAME SIZE = 184T

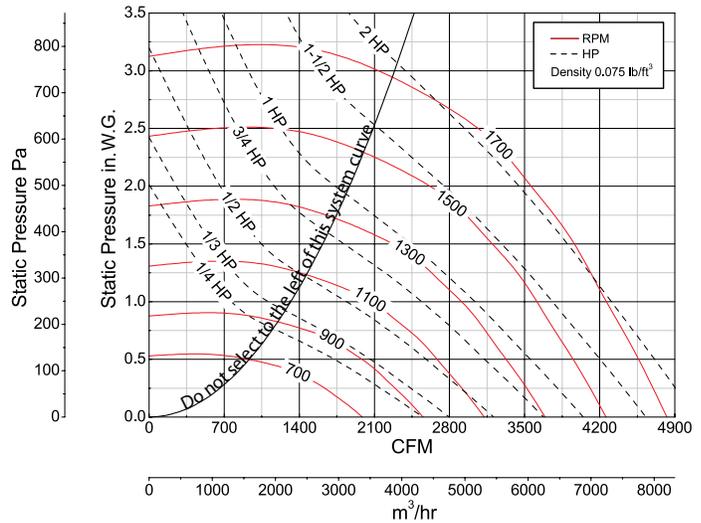
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-180HP - Belt Drive



Damper Size = 18 x 18 (457 x 457)
 Roof Opening = 20 1/2 x 20 1/2 (521 x 521)
 Shroud Thickness = 0.064 (1.6)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 125 lb. (57 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

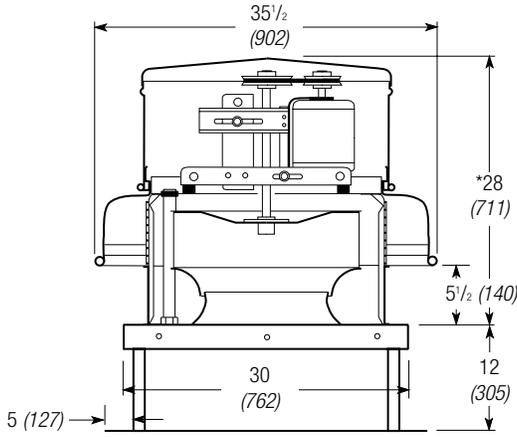


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG																	
			0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75								
H-GB-180HP-4	1/4	795	CFM	1547																
			BHP	0.22																
			Sones	8.6																
				845	CFM	1759														
			BHP	0.26																
			Sones	9.1																
H-GB-180HP-3	1/3	935	CFM	2114	1686															
			BHP	0.35	0.35															
			Sones	10.3	9.6															
H-GB-180HP-5	1/2	1075	CFM	2601	2316	1920														
			BHP	0.51	0.53	0.52														
			Sones	12.9	12.1	11.6														
H-GB-180HP-7	3/4	1150	CFM	2847	2607	2298	1811													
			BHP	0.61	0.64	0.65	0.62													
			Sones	14.6	13.1	12.6	12.3													
			1225	CFM	3088	2880	2610	2277	1711											
				BHP	0.73	0.77	0.78	0.78	0.72											
				Sones	16.3	14.7	13.9	13.3	13.2											
H-GB-180HP-10	1	1350	CFM	3485	3296	3095	2840	2540	2059											
			BHP	0.96	1.00	1.04	1.05	1.05	0.99											
			Sones	19.5	17.6	16.4	15.8	15.0	15.1											
H-GB-180HP-15	1 1/2	1445	CFM	3782	3604	3428	3213	2969	2670	2216										
			BHP	1.16	1.21	1.25	1.28	1.29	1.28	1.21										
			Sones	22	20	18.8	17.8	17.3	16.4	16.6										
			1540	CFM	4076	3909	3744	3576	3353	3119	2827	2407								
				BHP	1.39	1.44	1.49	1.53	1.55	1.56	1.55	1.48								
				Sones	25	22	21	20	19.6	18.9	18.1	18.3								
H-GB-180HP-20	2	1620	CFM	4319	4163	4005	3848	3663	3450	3223	2923	2512								
			BHP	1.60	1.66	1.71	1.76	1.79	1.81	1.82	1.80	1.72								
			Sones	27	25	24	23	22	21	20	19.7	19.8								
			1700	CFM	4560	4414	4263	4114	3964	3764	3560	3340	3037	2642						
				BHP	1.84	1.90	1.96	2.01	2.06	2.08	2.10	2.11	2.07	1.99						
				Sones	30	27	26	25	24	23	22	22	21	21						

MAXIMUM BHP AT A GIVEN RPM = (RPM/1325)³
 MAXIMUM RPM = 1700
 TIP SPEED (ft/min.) = RPM x 4.843
 MAXIMUM MOTOR FRAME SIZE = 184T

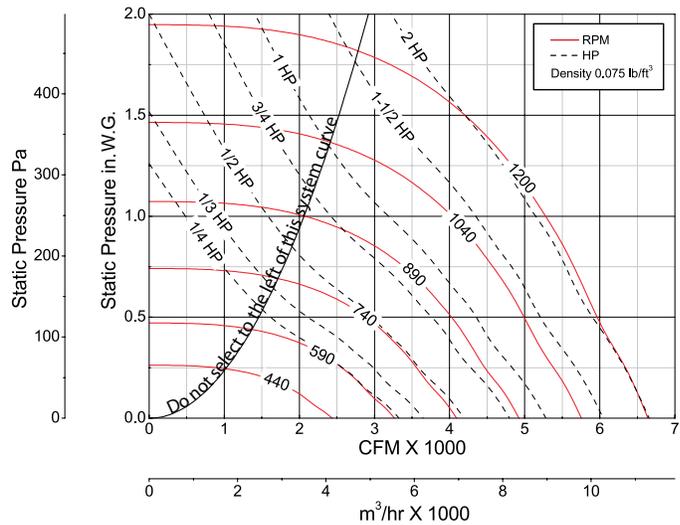
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-200 - Belt Drive



Damper Size = 18 x 18 (457 x 457)
 Roof Opening = 20 1/2 x 20 1/2 (521 x 521)
 Shroud Thickness = 0.064 (1.6)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 138 lb. (63 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

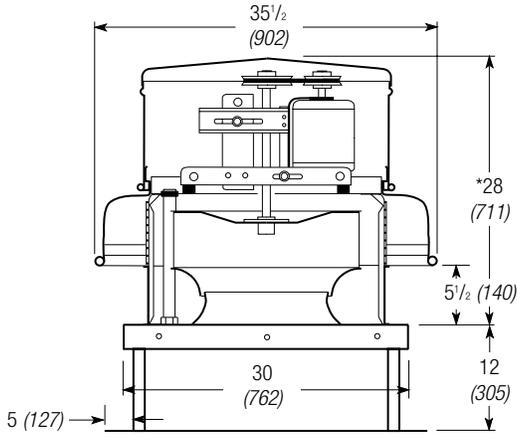


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG													
			0	0.125	0.25	0.375	0.5	0.75	1	1.25	1.5	1.75				
H-GB-200-4	1/4	440	CFM	2435	1976											
			BHP	0.10	0.10											
			Sones	6.5	5.8											
	600	CFM	3320	2984	2637	2089										
		BHP	0.25	0.26	0.26	0.25										
		Sones	8.5	7.9	7.3	6.1										
H-GB-200-3	1/3	665	CFM	3680	3378	3085	2706	2087								
			BHP	0.34	0.34	0.36	0.35	0.33								
			Sones	9.6	9.0	8.5	7.7	6.7								
H-GB-200-5	1/2	718	CFM	3973	3700	3422	3109	2684								
			BHP	0.43	0.43	0.45	0.45	0.44								
			Sones	10.8	10.0	9.6	9.0	8.3								
	770	CFM	4261	4013	3744	3477	3141									
		BHP	0.53	0.53	0.55	0.55	0.55									
		Sones	12.1	11.0	10.7	10.2	9.8									
H-GB-200-7	3/4	860	CFM	4759	4548	4289	4068	3811	3085							
			BHP	0.73	0.74	0.75	0.77	0.77	0.74							
			Sones	14.1	13.3	12.9	12.4	11.8	11.1							
H-GB-200-10	1	965	CFM	5340	5158	4927	4720	4520	4015	3240						
			BHP	1.03	1.04	1.05	1.08	1.09	1.08	1.02						
			Sones	16.7	16.0	15.4	15.0	14.5	13.7	13.0						
H-GB-200-15	1 1/2	1028	CFM	5689	5517	5309	5101	4918	4488	3911	2941					
			BHP	1.25	1.26	1.27	1.29	1.31	1.32	1.29	1.14					
			Sones	18.5	17.8	17.2	16.8	16.4	15.6	14.7	14.6					
	1090	CFM	6032	5870	5682	5473	5301	4925	4450	3751						
		BHP	1.49	1.50	1.51	1.52	1.56	1.56	1.56	1.48						
		Sones	20	19.6	18.9	18.4	18.1	17.5	16.8	15.8						
H-GB-200-20	2	1145	CFM	6336	6182	6010	5809	5637	5299	4870	4333	3517				
			BHP	1.73	1.74	1.75	1.76	1.79	1.81	1.82	1.77	1.64				
			Sones	22	21	21	20	19.8	19.2	18.7	17.7	16.6				
	1200	CFM	6640	6494	6336	6145	5969	5651	5274	4829	4177	3077				
		BHP	1.99	2.00	2.01	2.02	2.04	2.09	2.09	2.08	1.96	1.69				
		Sones	24	23	23	22	22	21	21	19.9	18.6	16.7				

MAXIMUM BHP AT A GIVEN RPM = (RPM/938)³
 MAXIMUM RPM = 1200
 TIP SPEED (ft/min.) = RPM x 5.596
 MAXIMUM MOTOR FRAME SIZE = 184T

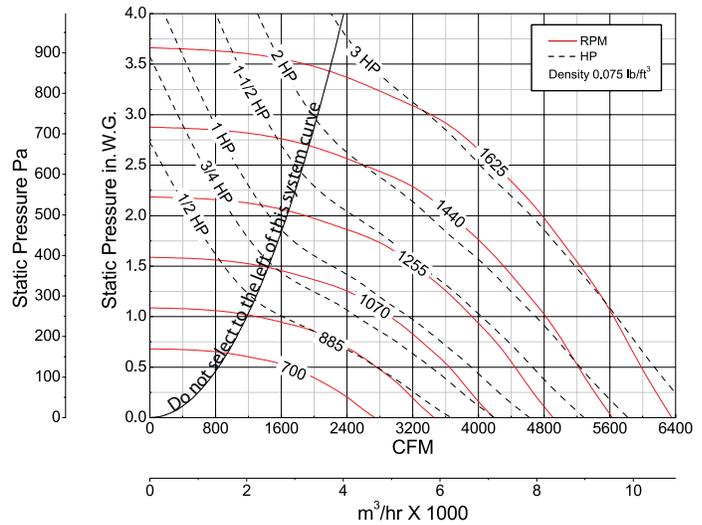
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-200HP - Belt Drive



Damper Size = 18 x 18 (457 x 457)
 Roof Opening = 20 1/2 x 20 1/2 (521 x 521)
 Shroud Thickness = 0.064 (1.6)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 138 lb. (63 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

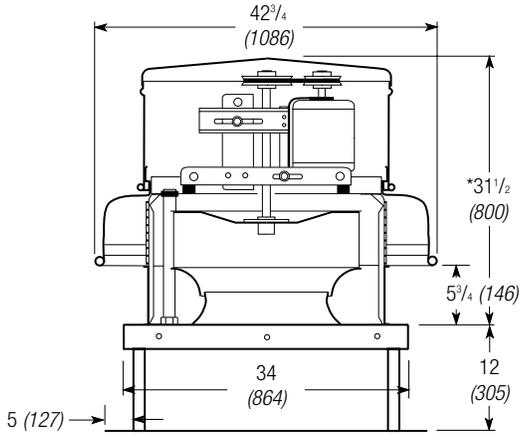


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG																	
			0.5	0.75	1	1.25	1.5	2	2.5	2.75	3	3.25								
H-GB-200HP-5	1/2	740	CFM	1961																
			BHP	0.30																
			Sones	8.7																
		895	CFM	2809	2331	1424														
			BHP	0.52	0.53	0.45														
			Sones	11.4	10.9	10.3														
H-GB-200HP-7	3/4	958	CFM	3116	2715	2153														
			BHP	0.63	0.65	0.63														
			Sones	12.8	12.1	11.6														
		1020	CFM	3409	3050	2602	1857													
			BHP	0.75	0.77	0.78	0.71													
			Sones	14.1	13.6	13.1	12.6													
H-GB-200HP-10	1	1125	CFM	3885	3584	3243	2804	2136												
			BHP	0.99	1.02	1.04	1.04	0.97												
			Sones	16.9	16.4	15.5	15.3	15.2												
H-GB-200HP-15	1 1/2	1205	CFM	4229	3967	3663	3314	2884												
			BHP	1.19	1.24	1.27	1.29	1.27												
			Sones	18.8	17.9	17.2	16.5	16.4												
		1285	CFM	4569	4343	4070	3770	3416	2278											
			BHP	1.43	1.49	1.52	1.55	1.57	1.40											
			Sones	21	20	19.1	18.1	17.8	18.9											
H-GB-200HP-20	2	1350	CFM	4843	4638	4384	4109	3811	2996											
			BHP	1.65	1.71	1.75	1.78	1.81	1.76											
			Sones	23	22	21	19.8	19.3	19.1											
		1415	CFM	5114	4919	4692	4442	4169	3492	2250										
			BHP	1.88	1.95	2.00	2.04	2.07	2.07	1.78										
			Sones	24	24	23	22	21	19.7	23										
H-GB-200HP-30	3	1520	CFM	5550	5368	5182	4952	4713	4166	3458	2850	2046								
			BHP	2.31	2.38	2.45	2.50	2.53	2.58	2.53	2.38	2.06								
			Sones	27	27	27	26	24	23	22	22	22								
		1625	CFM	5982	5812	5642	5448	5233	4767	4196	3859	3377	2725							
			BHP	2.80	2.88	2.95	3.02	3.06	3.13	3.16	3.12	3.01	2.76							
			Sones	32	31	31	29	28	27	25	24	23	22							

MAXIMUM BHP AT A GIVEN RPM = (RPM/1106)³
 MAXIMUM RPM = 1625
 TIP SPEED (ft/min.) = RPM x 5.596
 MAXIMUM MOTOR FRAME SIZE = 184T

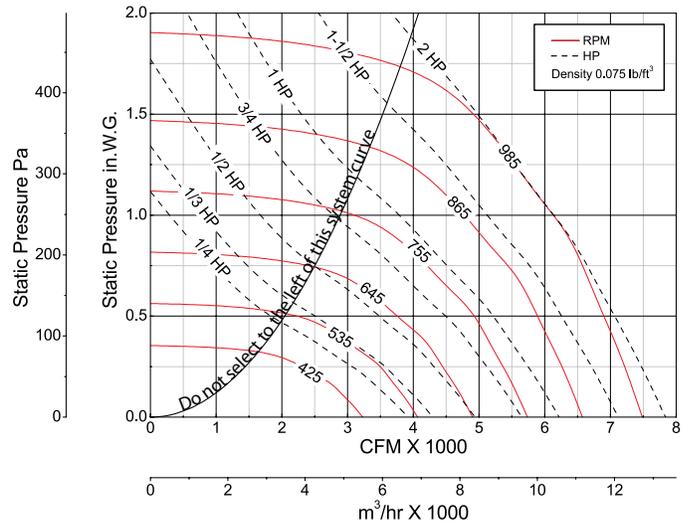
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-220 - Belt Drive



Damper Size = 24 x 24 (610 x 610)
 Roof Opening = 26½ x 26½ (673 x 673)
 Shroud Thickness = 0.064 (1.6)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 158 lb. (72 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

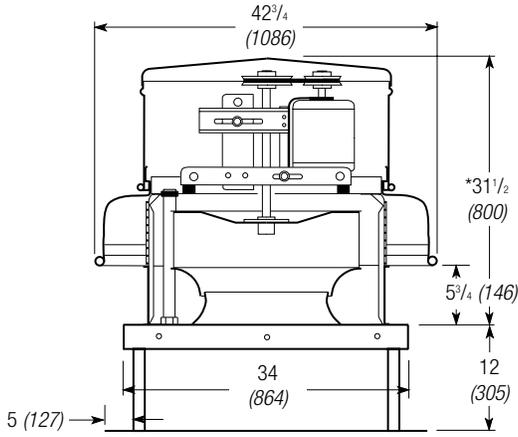


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG														
			0	0.125	0.25	0.375	0.5	0.625	0.75	1	1.25	1.5					
H-GB-220-4	1/4	425	CFM	3230	2879	2296											
			BHP	0.14	0.16	0.16											
			Sones	7.4	7.2	6.9											
	465	CFM	3533	3219	2758	1951											
		BHP	0.18	0.20	0.21	0.19											
		Sones	8.1	7.8	7.4	7.0											
500	CFM	3799	3512	3132	2542												
	BHP	0.23	0.25	0.26	0.26												
	Sones	8.8	8.4	7.9	7.5												
H-GB-220-3	1/3	550	CFM	4179	3924	3629	3158	2526									
			BHP	0.30	0.32	0.34	0.35	0.33									
			Sones	10.0	9.6	8.9	8.4	8.0									
H-GB-220-5	1/2	640	CFM	4863	4654	4403	4120	3702	3208								
			BHP	0.48	0.50	0.53	0.54	0.55	0.54								
			Sones	13.0	12.8	12.1	11.2	10.5	9.7								
H-GB-220-7	3/4	710	CFM	5395	5206	4990	4762	4459	4077	3633							
			BHP	0.65	0.68	0.71	0.73	0.74	0.75	0.74							
			Sones	15.0	14.9	14.4	13.6	12.8	12.1	11.2							
H-GB-220-10	1	755	CFM	5737	5559	5362	5148	4920	4579	4206	3095						
			BHP	0.79	0.82	0.84	0.87	0.89	0.90	0.90	0.82						
			Sones	15.7	15.6	15.2	14.6	14.0	13.4	12.7	11.2						
	800	CFM	6079	5911	5732	5530	5326	5049	4716	3929							
		BHP	0.93	0.97	1.00	1.02	1.05	1.06	1.07	1.05							
		Sones	16.6	16.4	16.1	15.6	15.2	14.6	14.2	12.5							
H-GB-220-15	1½	848	CFM	6444	6286	6122	5932	5741	5540	5236	4566	3542					
			BHP	1.11	1.15	1.18	1.21	1.23	1.26	1.27	1.27	1.17					
			Sones	17.8	17.5	17.2	16.9	16.5	16.2	15.7	14.5	13.4					
	895	CFM	6801	6651	6501	6323	6142	5960	5723	5122	4401						
		BHP	1.31	1.34	1.38	1.41	1.44	1.47	1.49	1.50	1.47						
		Sones	19.4	19.1	18.8	18.5	18.2	18.0	17.6	16.9	15.5						
H-GB-220-20	2	985	CFM	7485	7349	7212	7062	6898	6734	6568	6107	5548	4883				
			BHP	1.74	1.78	1.82	1.86	1.89	1.92	1.95	1.99	2.00	1.96				
			Sones	23	23	23	22	22	22	22	22	21	20	19.0			

MAXIMUM BHP AT A GIVEN RPM = $(RPM/782)^3$
 MAXIMUM RPM = 985
 TIP SPEED (ft/min.) = RPM x 6.283
 MAXIMUM MOTOR FRAME SIZE = 184T

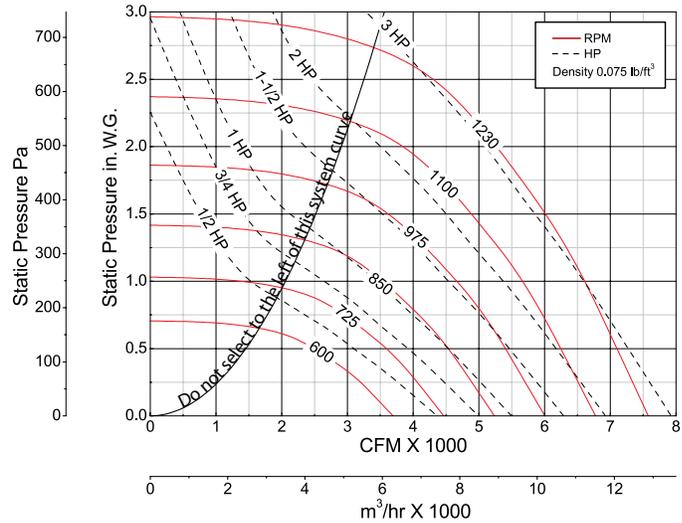
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-220HP - Belt Drive



Damper Size = 24 x 24 (610 x 610)
 Roof Opening = 26 1/2 x 26 1/2 (673 x 673)
 Shroud Thickness = 0.064 (1.6)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 158 lb. (72 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

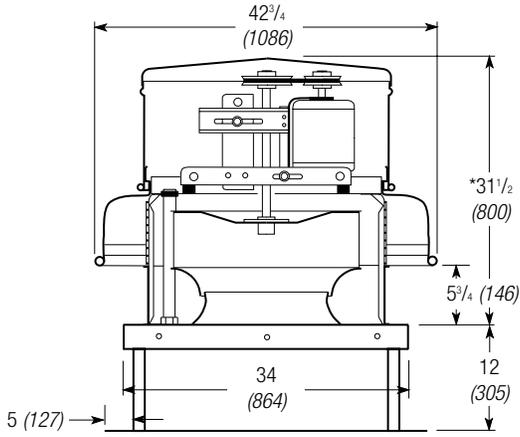


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG														
			0.5	0.625	0.75	1	1.25	1.5	1.75	2	2.25	2.5					
H-GB-220HP-5	1/2	650	CFM	2952	2555	1892											
			BHP	0.47	0.46	0.42											
			Sones	8.9	8.5	8.3											
		680	CFM	3215	2871	2440											
			BHP	0.53	0.53	0.52											
			Sones	9.4	9.2	8.9											
H-GB-220HP-7	3/4	728	CFM	3614	3312	2974											
			BHP	0.65	0.65	0.65											
			Sones	10.6	10.3	9.9											
		775	CFM	3973	3719	3424	2643										
			BHP	0.77	0.79	0.79	0.75										
			Sones	12.0	11.5	11.1	10.5										
H-GB-220HP-10	1	850	CFM	4532	4317	4083	3536	2648									
			BHP	1.00	1.02	1.04	1.03	0.95									
			Sones	15.0	13.8	13.5	12.7	12.0									
H-GB-220HP-15	1 1/2	913	CFM	4975	4791	4590	4119	3545	2557								
			BHP	1.22	1.25	1.27	1.29	1.27	1.13								
			Sones	16.7	16.0	15.3	14.4	13.5	13.0								
		975	CFM	5400	5245	5060	4660	4185	3602								
			BHP	1.46	1.50	1.53	1.57	1.56	1.53								
			Sones	18.7	18.2	17.5	16.3	15.4	14.8								
H-GB-220HP-20	2	1025	CFM	5740	5591	5432	5075	4643	4157	3492							
			BHP	1.68	1.72	1.76	1.81	1.82	1.804	1.74							
			Sones	21	20	19.4	18.2	17.1	16.4	15.6							
		1075	CFM	6076	5935	5794	5459	5082	4649	4136	3346						
			BHP	1.93	1.97	2.01	2.06	2.10	2.10	2.07	1.93						
			Sones	23	22	21	20	18.7	18.3	17.7	16.4						
H-GB-220HP-30	3	1127	CFM	6422	6289	6154	5852	5520	5124	4703	4173	3299					
			BHP	2.20	2.24	2.29	2.36	2.41	2.42	2.41	2.37	2.17					
			Sones	24	24	23	22	21	20	19.3	18.6	17.7					
		1230	CFM	7100	6981	6858	6611	6316	6009	5649	5263	4812	4265				
			BHP	2.82	2.87	2.92	3.01	3.08	3.14	3.15	3.14	3.10	3.02				
			Sones	28	27	27	27	25	25	23	22	22	22				

MAXIMUM BHP AT A GIVEN RPM = (RPM/838)³
 MAXIMUM RPM = 1230
 TIP SPEED (ft/min.) = RPM x 6.414
 MAXIMUM MOTOR FRAME SIZE = 184T

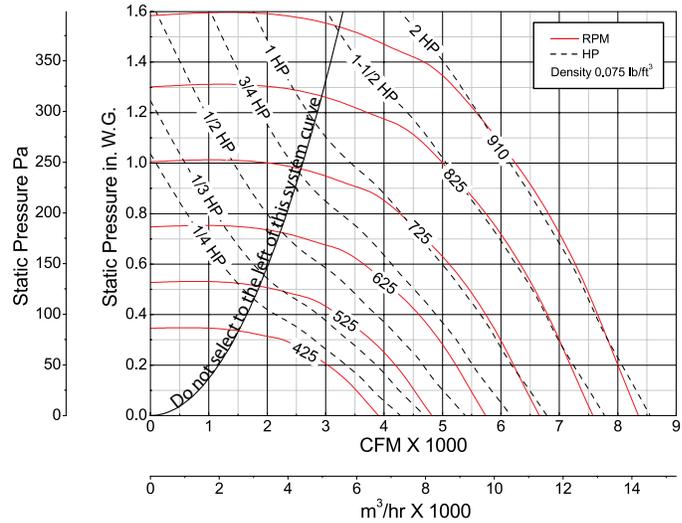
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-240 - Belt Drive



Damper Size = 24 x 24 (610 x 610)
 Roof Opening = 26¹/₂ x 26¹/₂ (673 x 673)
 Shroud Thickness = 0.064 (1.6)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 158 lb. (72 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

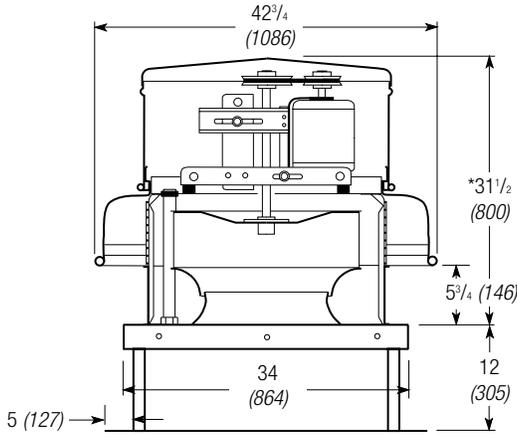


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG												
			0	0.125	0.25	0.375	0.5	0.625	0.75	1	1.25	1.5			
H-GB-240-4	1/4	425	CFM	3902	3422	2691									
			BHP	0.19	0.21	0.20									
			Sones	5.9	5.9	4.7									
	460	CFM	4223	3785	3188	2036									
		BHP	0.24	0.26	0.27	0.22									
		Sones	6.7	6.6	5.7	4.2									
H-GB-240-3	1/3	505	CFM	4637	4242	3761	3060								
			BHP	0.32	0.35	0.35	0.34								
			Sones	7.8	7.5	6.9	6.1								
H-GB-240-5	1/2	585	CFM	5371	5031	4666	4195	3562	2112						
			BHP	0.50	0.53	0.54	0.55	0.53	0.41						
			Sones	10.3	9.7	9.1	8.8	8.2	7.2						
H-GB-240-7	3/4	623	CFM	5720	5400	5069	4660	4131	3428						
			BHP	0.60	0.64	0.65	0.66	0.65	0.61						
			Sones	11.7	11.0	10.4	10.0	9.6	9.1						
	660	CFM	6060	5757	5449	5094	4636	4073	3217						
		BHP	0.71	0.75	0.78	0.79	0.78	0.76	0.69						
		Sones	13.1	12.4	11.8	11.3	11.0	10.6	10.4						
H-GB-240-10	1	730	CFM	6702	6428	6158	5861	5507	5077	4568					
			BHP	0.96	1.01	1.05	1.05	1.06	1.06	1.03					
			Sones	15.8	15.0	14.3	13.8	13.4	13.1	12.9					
H-GB-240-15	1 ¹ / ₂	778	CFM	7143	6886	6632	6363	6058	5700	5266	4145				
			BHP	1.16	1.21	1.26	1.27	1.28	1.29	1.28	1.18				
			Sones	17.7	16.6	15.9	15.4	15.0	14.7	14.4	13.2				
	825	CFM	7575	7332	7092	6844	6574	6261	5901	5002					
		BHP	1.39	1.44	1.49	1.51	1.52	1.54	1.53	1.48					
		Sones	19.7	18.6	17.7	17.2	16.8	16.4	16.2	14.8					
H-GB-240-20	2	870	CFM	7988	7757	7529	7300	7055	6775	6457	5680	7757			
			BHP	1.63	1.68	1.73	1.77	1.78	1.80	1.80	1.77	1.68			
			Sones	22	21	19.6	19.1	18.7	18.3	17.9	16.9	21			
	910	CFM	8355	8135	7916	7700	7467	7215	6933	6240	5388	3707			
		BHP	1.86	1.92	1.97	2.02	2.03	2.05	2.06	2.05	1.97	1.66			
		Sones	24	23	21	21	21	20	19.6	19.2	16.7	13.6			

MAXIMUM BHP AT A GIVEN RPM = (RPM/715)³
 MAXIMUM RPM = 910
 TIP SPEED (ft/min.) = RPM x 6.414
 MAXIMUM MOTOR FRAME SIZE = 184T

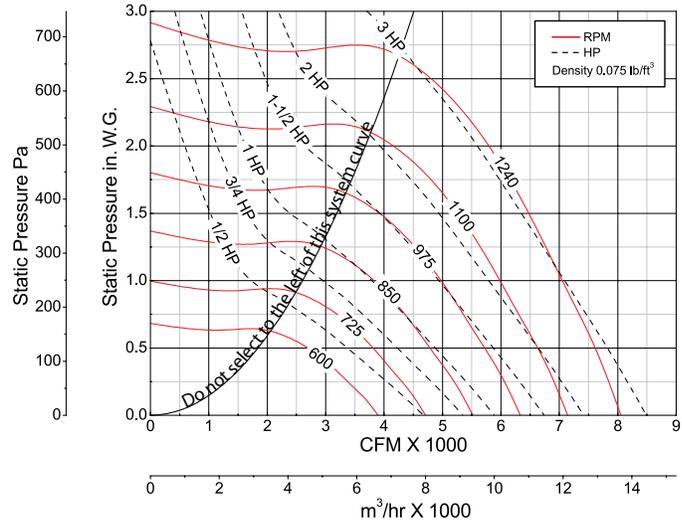
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-240HP - Belt Drive



Damper Size = 24 x 24 (610 x 610)
 Roof Opening = 26 1/2 x 26 1/2 (673 x 673)
 Shroud Thickness = 0.064 (1.6)
 Motor Cover Thickness = 0.040 (1.0)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 158 lb. (72 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

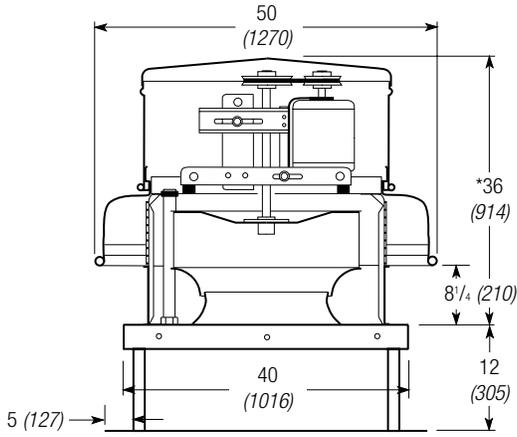


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG														
			0.5	0.625	0.75	1	1.25	1.5	1.75	2	2.25	2.5					
H-GB-240HP-5	1/2	635	CFM	3035	2586												
			BHP	0.42	0.41												
			Sones	8.0	7.6												
		685	CFM	3475	3147	2693											
			BHP	0.53	0.53	0.51											
			Sones	9.4	8.8	8.4											
H-GB-240HP-7	3/4	733	CFM	3877	3603	3272											
			BHP	0.64	0.65	0.65											
			Sones	11.0	10.3	9.7											
		780	CFM	4247	4005	3740	2964										
			BHP	0.76	0.77	0.78	0.75										
			Sones	12.7	11.9	11.3	10.3										
H-GB-240HP-10	1	860	CFM	4860	4654	4434	3915	3105									
			BHP	0.99	1.02	1.04	1.05	0.99									
			Sones	15.9	15.2	14.3	13.2	12.2									
H-GB-240HP-15	1 1/2	920	CFM	5310	5118	4925	4496	3944									
			BHP	1.20	1.23	1.25	1.29	1.27									
			Sones	18.5	17.4	16.6	15.0	13.8									
		980	CFM	5751	5574	5392	5010	4562	3958								
			BHP	1.43	1.47	1.49	1.54	1.55	1.52								
			Sones	22	19.9	19.1	17.2	15.6	14.8								
H-GB-240HP-20	2	1030	CFM	6114	5948	5776	5428	5039	4560	3896							
			BHP	1.65	1.69	1.72	1.77	1.80	1.80	1.73							
			Sones	24	23	21	19.6	17.6	16.3	15.7							
		1080	CFM	6474	6315	6154	5826	5468	5062	4555	3763						
			BHP	1.89	1.92	1.96	2.02	2.06	2.08	2.05	1.93						
			Sones	27	26	24	23	20	18.2	17.3	16.7						
H-GB-240HP-30	3	1133	CFM	6853	6702	6550	6237	5914	5560	5133	4588						
			BHP	2.16	2.20	2.24	2.31	2.36	2.40	2.39	2.35						
			Sones	29	27	26	24	22	21	19.3	18.7						
		1240	CFM	7610	7471	7333	7053	6767	6469	6146	5775	5364	4776				
			BHP	2.80	2.84	2.89	2.97	3.04	3.10	3.14	3.14	3.13	3.04				
			Sones	31	30	29	28	27	25	24	23	23	22				

MAXIMUM BHP AT A GIVEN RPM = (RPM/845)³
 MAXIMUM RPM = 1240
 TIP SPEED (ft/min.) = RPM x 6.414
 MAXIMUM MOTOR FRAME SIZE = 184T

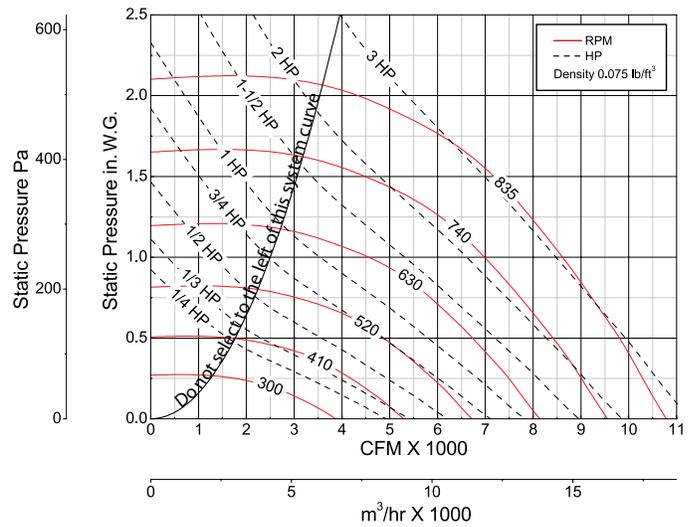
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-260 - Belt Drive



Damper Size = 30 x 30 (762 x 762)
 Roof Opening = 32 1/2 x 32 1/2 (826 x 826)
 Shroud Thickness = 0.064 (1.6)
 Motor Cover Thickness = 0.051 (1.3)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 305 lb. (138 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.

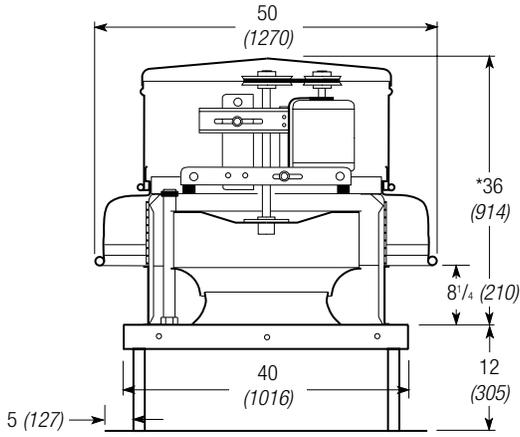


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG																			
			0	0.125	0.25	0.5	0.75	1	1.25	1.5	1.75	2										
H-GB-260-4	1/4	300	CFM	3875	3121	1727																
			BHP	0.12	0.14	0.12																
			Sones	8.0	7.1	7.4																
		365	CFM	4714	4130	3393																
			BHP	0.22	0.25	0.26																
			Sones	9.2	8.8	8.6																
H-GB-260-3	1/3	405	CFM	5231	4716	4095																
			BHP	0.30	0.33	0.35																
			Sones	10.4	10.3	10.3																
H-GB-260-5	1/2	465	CFM	6005	5570	5063	3745															
			BHP	0.45	0.50	0.52	0.53															
			Sones	11.4	10.9	10.4	9.6															
H-GB-260-7	3/4	520	CFM	6716	6324	5898	4869	3008														
			BHP	0.63	0.68	0.72	0.75	0.64														
			Sones	12.9	12.1	11.3	10.3	9.4														
H-GB-260-10	1	580	CFM	7491	7137	6775	5912	4826														
			BHP	0.88	0.93	0.98	1.04	1.03														
			Sones	14.4	13.7	13.0	12.2	11.0														
H-GB-260-15	1 1/2	665	CFM	8588	8278	7979	7274	6474	5465	3608												
			BHP	1.33	1.39	1.44	1.53	1.57	1.55	1.29												
			Sones	16.7	16.2	15.8	15.0	14.2	13.3	12.8												
H-GB-260-20	2	700	CFM	9041	8746	8460	7811	7068	6227	4912												
			BHP	1.55	1.61	1.67	1.77	1.82	1.83	1.71												
			Sones	17.8	17.4	17.0	16.2	15.5	14.8	13.8												
		735	CFM	9493	9212	8938	8335	7649	6878	5916	4236											
			BHP	1.79	1.86	1.92	2.03	2.10	2.13	2.09	1.80											
			Sones	18.9	18.6	18.3	17.6	16.8	16.2	15.6	14.9											
H-GB-260-30	3	785	CFM	10138	9875	9617	9069	8452	7769	7006	5949	4189										
			BHP	2.18	2.26	2.33	2.44	2.53	2.58	2.59	2.49	2.11										
			Sones	21	20	20	19.7	18.9	18.2	17.9	17.1	16.7										
		835	CFM	10784	10537	10292	9794	9225	8606	7932	7157	6024	4294									
			BHP	2.62	2.70	2.78	2.91	3.02	3.08	3.12	3.10	2.93	2.49									
			Sones	23	23	22	22	21	20	19.9	19.7	18.7	18.6									

MAXIMUM BHP AT A GIVEN RPM = (RPM/572)³
 MAXIMUM RPM = 1710
 TIP SPEED = RPM x 7.985
 MAXIMUM MOTOR FRAME SIZE = 184T

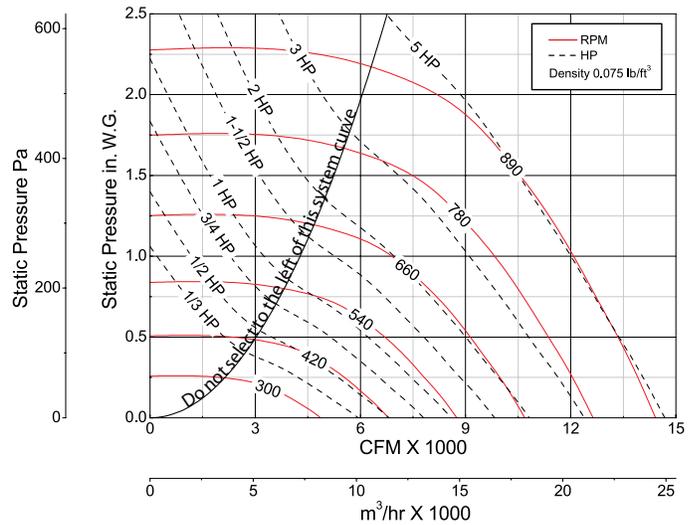
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-300 - Belt Drive



Damper Size = 30 x 30 (762 x 762)
Roof Opening = 32 1/2 x 32 1/2 (826 x 826)
Shroud Thickness = 0.064 (1.6)
Motor Cover Thickness = 0.051 (1.3)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 320 lb. (145 kg)

All dimensions in inches (millimeters).
*May be greater depending on motor.
^Weight shown is largest cataloged Open Drip Proof motor.

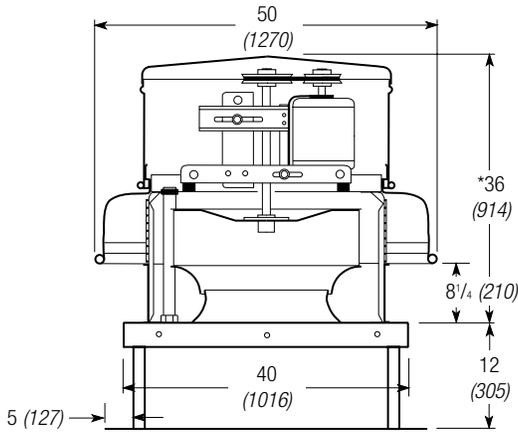


Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG														
			0	0.125	0.25	0.5	0.75	1	1.25	1.5	1.75	2					
H-GB-300-3	1/3	300	CFM	4859	3976												
			BHP	0.18	0.19												
			Sones	9.3	5.3												
		365	CFM	5912	5222	4340											
			BHP	0.33	0.35	0.35											
			Sones	9.2	6.2	5.7											
H-GB-300-5	1/2	420	CFM	6803	6222	5537											
			BHP	0.50	0.52	0.53											
			Sones	9.6	8.0	7.0											
H-GB-300-7	3/4	475	CFM	7694	7197	6616	5095										
			BHP	0.72	0.75	0.77	0.74										
			Sones	11.4	10.6	9.6	8.1										
H-GB-300-10	1	530	CFM	8585	8150	7640	6456	4195									
			BHP	1.00	1.04	1.06	1.07	0.91									
			Sones	13.4	12.9	12.2	10.7	9.4									
H-GB-300-15	1 1/2	600	CFM	9719	9334	8907	7952	6721									
			BHP	1.45	1.49	1.53	1.55	1.52									
			Sones	15.9	15.4	14.9	13.8	12.2									
H-GB-300-20	2	665	CFM	10772	10425	10060	9228	8269	7025								
			BHP	1.97	2.02	2.06	2.11	2.11	2.03								
			Sones	18.8	18.2	17.7	16.8	15.7	13.7								
H-GB-300-30	3	713	CFM	11549	11226	10901	10129	9297	8283	6691							
			BHP	2.43	2.48	2.53	2.59	2.61	2.57	2.38							
			Sones	21	20	19.6	18.9	18.0	16.4	13.7							
		760	CFM	12311	12007	11704	10997	10242	9369	8293	6437						
			BHP	2.94	3.00	3.05	3.13	3.16	3.15	3.06	2.76						
			Sones	23	22	21	21	19.8	18.6	16.8	14.0						
H-GB-300-50	5	825	CFM	13363	13084	12804	12175	11501	10770	9909	8885	7128					
			BHP	3.76	3.82	3.88	3.97	4.02	4.05	4.01	3.90	3.56					
			Sones	25	25	24	24	23	22	20	18.7	16.1					
		890	CFM	14416	14157	13898	13335	12716	12073	11379	10536	9568	7963				
			BHP	4.73	4.79	4.85	4.96	5.03	5.06	5.09	5.02	4.89	4.54				
			Sones	28	28	28	27	26	25	24	22	21	18.7				

MAXIMUM BHP AT A GIVEN RPM - (RPM/518)³
MAXIMUM RPM - 1710
TIP SPEED - RPM x 7.985
MAXIMUM MOTOR FRAME SIZE - 184T

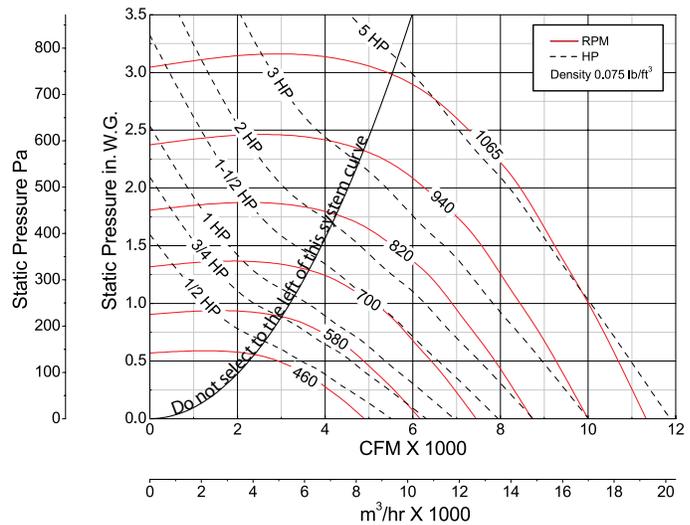
Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of a birdscreen. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated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

H-GB-300HP - Belt Drive



- Damper Size = 30 x 30 (762 x 762)
- Roof Opening = 32 1/2 x 32 1/2 (826 x 826)
- Shroud Thickness = 0.064 (1.6)
- Motor Cover Thickness = 0.051 (1.3)
- Curb Cap Thickness = 0.064 (1.6)
- ^Approximate Unit Weight = 320 lb. (145 kg)

All dimensions in inches (millimeters).
 *May be greater depending on motor.
 ^Weight shown is largest cataloged Open Drip Proof motor.



Model Number	HP (Size)	Fan RPM	CFM / Static Pressure in Inches WG												
			0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75			
H-GB-300HP-5	1/2	460	CFM	2912											
			BHP	0.41											
			Sones	9.7											
			495	CFM	3602										
			BHP	0.53											
			Sones	10.3											
H-GB-300HP-7	3/4	565	CFM	4662	3600										
			BHP	0.77	0.76										
			Sones	11.8	10.4										
H-GB-300HP-10	1	620	CFM	5398	4652	3309									
			BHP	1.01	1.04	0.94									
			Sones	13.4	12.3	10.6									
H-GB-300HP-15	1 1/2	710	CFM	6542	5954	5269	4221								
			BHP	1.48	1.53	1.55	1.47								
			Sones	17.2	16.0	15.3	13.4								
H-GB-300HP-20	2	748	CFM	7013	6462	5889	5027								
			BHP	1.71	1.78	1.81	1.78								
			Sones	18.8	17.5	17.0	15.7								
		785	CFM	7460	6943	6402	5737	4800							
			BHP	1.96	2.04	2.08	2.10	2.00							
			Sones	20	19.1	18.5	17.9	16.2							
H-GB-300HP-30	3	840	CFM	8107	7642	7146	6636	5922	4992						
			BHP	2.37	2.46	2.52	2.57	2.56	2.43						
			Sones	23	22	21	21	19.7	18.0						
		895	CFM	8746	8328	7870	7394	6892	6150	5245					
			BHP	2.84	2.95	3.03	3.07	3.11	3.08	2.92					
			Sones	25	24	23	23	23	22	19.8					
H-GB-300HP-50	5	980	CFM	9722	9356	8951	8531	8094	7657	7029	6264	5222			
			BHP	3.68	3.81	3.90	3.99	4.03	4.08	4.09	3.95	3.69			
			Sones	32	31	29	28	27	26	25	24	23			
		1065	CFM	10688	10351	10006	9621	9233	8831	8429	7903	7255	6543		
			BHP	4.67	4.81	4.94	5.04	5.12	5.17	5.23	5.24	5.17	5.01		
			Sones	44	42	37	37	36	35	33	31	30	29		

MAXIMUM BHP AT A GIVEN RPM = (RPM/613)³
 MAXIMUM RPM = 1065
 TIP SPEED (ft/min.) = RPM x 7.985
 MAXIMUM 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. The sound ratings shown are loudness values in fan sones at 5 ft (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A: Free hemispherical inlet fan sone levels.

Specifications

Direct Drive Specifications

Model H-G spun aluminum exhaust fans shall be centrifugal direct driven type. The fan wheel shall be centrifugal backward inclined, constructed of aluminum and shall include a wheel cone carefully matched to the inlet cone for precise running tolerances. Wheels shall be statically and dynamically balanced. The fan housing shall be drawn from high strength aluminum and connected to a heavy gauge steel internal frame with integral bracing and a birdscreen.

Motors shall be heavy duty ball bearing type, carefully matched to the fan load, and furnished mounted to the steel drive assembly at the specified voltage, phase, and enclosure. Motors or drive assembly shall be mounted on vibration isolators. Fresh air for motor cooling shall be drawn into the motor compartment through a large space between the fan shroud and motor cover. Motors shall be readily accessible for maintenance.

A disconnect shall be NEMA rated and factory installed with wiring included 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 nameplate constructed of aluminum and containing the model number and individual serial number for future identification

Fans shall meet all Greenheck wind load standards and shall contain the following third party certifications

- Miami-Dade NOA# 07-0503.07
- Licensed P.E. calculations shall be available for fan per ASCE 7-02 Minimum Design Loads for Buildings and Other Structures for exposure class C, 60 foot building height, and a type II building.
- Fan shall be tested in accordance with ASTM E330-02. Structural Performance of Exterior Windows, Doors, Skylights, and Curtain Walls by Uniform Static Air Pressure Difference and Florida Building Code Test Protocol TAS-202 at the ASCE 7-02 calculated design load.
- Licensed P.E. calculations for attachment of fan to curb shall be available for ASCE 7-02 determined design pressure.
- All calculations and testing shall be done by a state licensed P.E., and a certified test lab.

Fans shall be Greenheck model H-G manufactured by Greenheck Fan Corporation in Schofield Wisconsin.

Belt Drive Specifications

Model H-GB spun aluminum exhaust fans shall be centrifugal belt driven type. The fan wheel shall be centrifugal backward inclined, constructed of aluminum and shall include a wheel cone carefully matched to the inlet cone for precise running tolerances. Wheels shall be statically and dynamically balanced. The fan housing shall be drawn from high strength aluminum and connected to a heavy gauge steel internal frame with integral bracing and a birdscreen.

Motors shall be heavy-duty ball bearing type, carefully matched to the fan load, and furnished mounted to the steel drive frame at the specified voltage, phase, and enclosure. Drive frame assembly shall be constructed of heavy gauge steel with engineered forms for added strength. Motors and drives shall be mounted on vibration isolators with no metal to metal contact, out of the airstream. Fresh air for motor cooling shall be drawn into the motor compartment through a large space between the fan shroud and the motor cover. Motors and drives shall be readily accessible for maintenance.

Precision ground and polished fan shafts shall be mounted in pillow block ball bearings. Bearings shall be selected for a minimum (L10) life in excess of 100,000 hours (L50 average life of 500,000 hours) at maximum cataloged operating 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 NEMA rated and factory installed with wiring included 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 be third party tested and certified for sound and air performance.

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

Fans shall meet all Greenheck wind load standards and shall contain the following third party certifications

- Miami-Dade NOA# 07-0503.07
- Licensed P.E. calculations shall be available for fan per ASCE 7-02 Minimum Design Loads for Buildings and Other Structures for exposure class C, 60 foot building height, and a type II building.
- Fan shall be tested in accordance with ASTM E 330-02. Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference and Florida Building Code Test Protocol TAS-202 at the ASCE 7-02 calculated design pressure.
- Licensed P.E. calculations for attachment of fan to curb shall be available for ASCE 7-02 determined design pressure.
- All calculations and testing shall be done by a state licensed P.E., and a certified test lab.

Fans shall be Greenheck models H-GB and H-GB-HP, manufactured by Greenheck Fan Corporation in Schofield, Wisconsin.



Our Warranty

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

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

