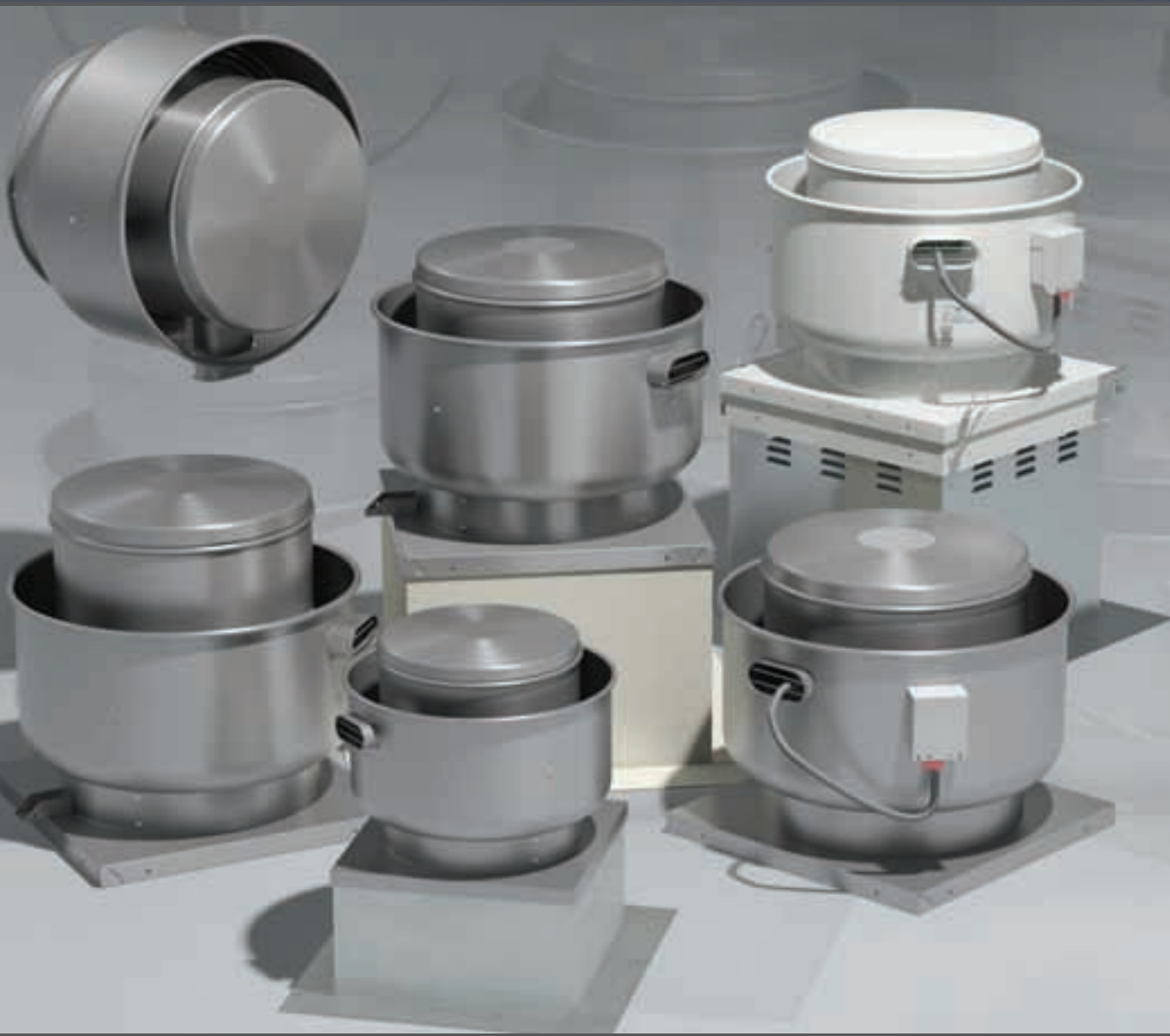


Centrifugal Upblast & Sidewall Exhaust

- General Clean Air • Restaurant Grease
- High Wind • Seismic • Smoke Control • Contaminants

Models CUBE, CUE, CWB, CW, S-CUBE and USGF



BUILDING VALUE IN AIR.

 **GREENHECK**
Building Value in Air.

May
2009

Centrifugal Exhaust Fans: Roof Upblast and Sidewall

When you buy a Greenheck roof upblast or sidewall exhaust fan, you'll receive a fan with the industry's best performance and durability for general clean air, restaurant grease, smoke control, light contaminants, seismic, high wind, and hurricane applications. Both roof upblast and sidewall configurations are specifically designed to discharge air directly away from the mounting surface.

- Performance as cataloged is assured. All fan sizes are tested in our AMCA Accredited Laboratory and all models are licensed to bear the AMCA Sound and Air Performance seal.
- UL/cUL Listed for electrical, grease and smoke control.
- Greenheck subjects these products to extensive life testing, assuring you the fans will provide many years of reliable performance.



- CUBE, CUE, CWB, CW, USGF, and S-CUBE models are listed for electrical (UL/cUL 705) File no. E40001
- CUBE, CUE, CWB, CW, and USGF models are listed for grease removal (UL/cUL 762) File no. MH11745
- S-CUBE and USGF models are listed for Emergency Smoke Control Systems (UL/cUL Listed for 500°F (260°C) for 4 hours and 1,000°F (538°C) for 15 minutes) File no. MH17511

****UL/cUL is optional and must be specified***





Greenheck Fan Corporation certifies that the Models CUBE, CUE, CWB, CW, USGF, and S-CUBE 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 CUBE, CUE, CWB, CW, USGF, and S-CUBE are shown on pages 18 to 81.

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Model Comparison

Model		Mounting		Application							Drive Type		Performance	
		Roof Curb	Wall	General/Clean Air	Contaminated Air	Spark-Resistant	Grease (UL 762)	Smoke Control (UL)	High Wind (150 mph)	High Temperature (above 200°F)	Belt	Direct	Volume Range cfm (<i>m</i> ³ /hr)	Maximum Static Pressure in. wg (Pascals)
	CUBE	✓		✓	✓	✓	✓		✓	✓	✓		200 - 30,000 (340-50,970)	5.0 (1245)
	CUE	✓		✓	✓	✓	✓		✓	✓		✓	70 - 6,400 (119-10,874)	3.0 (747)
	CWB		✓	✓	✓	✓	✓			✓	✓		200 - 12,500 (340-21,238)	2.75 (685)
	CW		✓	✓	✓	✓	✓			✓		✓	70 - 6,400 (119-10,874)	3.0 (747)
	USGF	✓					✓	✓	✓	✓	✓		330 - 6,800 (561-11,553)	2.0 (498)
	S-CUBE	✓						✓	✓	✓	✓		180 - 30,000 (306-50,970)	2.75 (685)

Codes and Certifications

UL 705 - Power Ventilators

Intended to assure the buyer of the safety of electrical components and connections within power ventilators and duct fans. Limited to fans connected to permanently installed wiring that meet NFPA 70 and the National Electric Code. Tests under this standard relate to extremes of current, temperature, fuses, motor windings, bearing temperatures, and water that a fan could be subject to.

UL Power Ventilators for Smoke Control Systems

Ventilators or duct fans have been investigated with respect to their operation during exposure to elevated temperatures. Installed as part of a smoke control system and in accordance NFPA 92A and 92B. Requirements also include UL 705 and if applicable UL 793. Meets the IRI and SBCCI "Standard Fire Prevention Code" requirements.

UL 762 - Power Ventilators for Restaurant Exhaust Appliances

UL 762 is for exhausting grease in the airstream as found in restaurant or kitchen applications. Basic testing is the same as for UL 705 and additional testing includes operating the fan in a high temperature airstream without warpage,

deterioration or damage that would cause the fan to operate unsafely plus grease flare-up tests. Greenheck products with UL 762 include most centrifugal roof upblast and centrifugal sidewall fans, utility fans and housed centrifugal fans.

AMCA Certified Ratings Program

Ensures that all data is accurate. The 211 seal for air performance certifies that the fan has been tested to the appropriate AMCA standards in a licensed test facility and that the air performance displayed in catalogues and selection software is accurate. The 311 seal for air and sound performance certifies that the fan has been tested to the appropriate AMCA sound standards in a licensed facility and that the sound performance displayed in catalogues and selection software is accurate. The AMCA Certified Ratings Program is designed to ensure that the products perform as stated and that a third-party organization has verified all published data for accuracy and consistency.

NFPA 96

Standard for Ventilation Control and Fire Protection of Cooking Operations. This standard outlines the appropriate installation methods and required equipment to ensure a safe and effective kitchen or cooking installation of HVAC equipment.

Clean Air Applications

Models CUBE, CUE, CWB, and CW

These spun aluminum fans are specifically designed for roof mounted or wall mounted applications. General clean or lightly contaminated exhaust air can be discharged directly upward, away from the roof surface or discharged out and away from building walls.

- Most advanced motor cooling of any fan in its class.
- Greenheck pioneered leakproof construction for the entire life of the fan utilizing a one-piece windband continuously welded to the curb cap.
- Performance as cataloged is assured. All fan sizes are tested in our AMCA Accredited Laboratory and all models are licensed to bear the AMCA Sound and Air Performance seal.
- Greenheck subjects these products to extensive life testing, assuring you the fans will provide many years of reliable performance.



Seismic Applications

Models CUBE, CUE, S-CUBE, USGF

The International Building Code has been adopted on the state and local level throughout most of the fifty states. The adoption of this code has resulted in the adherence of buildings, along with electrical and mechanical components to new provisions in the code. In particular, there is an emphasis on seismic compliance. As an industry leader, Greenheck introduces the first seismic compliant centrifugal roof exhaust fan available for general clean air applications.

Greenheck offers products certified for the worst plausible seismic event that would be found on the IBC Spectral Response Map. Models CUBE, CUE, S-CUBE, and USGF are rated for all soil site classes A-F, which allows Greenheck to provide a seismic ventilation solution regardless of the location.

Rigorous Testing

- Third-party FEA (Finite Element Analysis) by licensed Professional Engineers
- Tested in Accordance with ICC ES AC-156 acceptance criteria

State P.E. Calculations

Models have been reviewed by state licensed Professional Engineers to ensure they conform to



Seattle, WA, 03/05/01 -- Damage in Pioneer Square from the 02/28 earthquake. FEMA/Photo by: Liz Roll/FEMA News Photo

the requirements of ASCE 7-05 Minimum Design Loads for Buildings and Other Structures and the International Building Code.

How Can Greenheck Provide a Seismic Solution?

While adhering to rigorous testing standards, Greenheck Fan Corporation is striving to provide a comprehensive selection of equipment to address the HVAC industry's seismic needs. The offerings cover all soil site classes. For the simplification of the submittal process, the consulting engineer simply needs to specify seismic compliant equipment.

Vari-Green Motor Applications

Models CUE and CW Available in sizes thru 161

The Greenheck Vari-Green motor blends technology, controllability and energy-efficiency into a low maintenance package changing the way the industry designs, specifies and operates air movement equipment.

The Vari-Green motor is the industry's first fully controllable fractional horsepower (hp) motor available in 1/4 hp, 1/2 hp and 3/4 hp. The Vari-Green motor is cost-effective with less than one-year payback. The motor is available with a potentiometer speed control dial mounted right on the motor to make system balancing a breeze. It can also be provided with 0-10 volt control wire inputs for easy integration into a Building Automation System (BAS) or any controller that can output a 0-10 volt signal.

Greenheck is leading the charge in the LEED and Green Building initiative. Greenheck became one of the first manufacturers in the Air Movement and Control industry to join the LEED/green movement when

they joined the United States Green Building Council (USGBC) in 2005. Greenheck has been actively researching qualification requirements for our products to meet LEED credits and prerequisites. The Vari-Green motor significantly helps qualification efforts for the Energy & Atmosphere credits and prerequisites; specifically credit one, Optimize Energy Performance and prerequisite two, Minimum Energy Performance.



Emergency Smoke Control Applications

Models S-CUBE and USGF

When you buy a Greenheck model S-CUBE or USGF, you receive a fan with the industry's best performance and durability for Smoke Control Applications (as found in emergency smoke control systems).

- The first spun aluminum (steel for USGF model) UL/cUL Listed fan for Emergency Smoke Control Systems in the industry.
- UL/cUL Listed for 500°F (260°C) for 4 hours and 1,000°F (538°C) for 15 minutes.
- Half the weight of traditional smoke control fans, ideal choice for roof load concerns.
- Low profile, height is less than half of traditional smoke control fans, maximum of 48 inches (1200 mm) from curb cap to top of fan.
- Multiple applications, capable of exhausting general clean air and satisfying emergency smoke control regulations.



Restaurant and Grease Applications

Models CUBE, CUE, CWB, and CW

When you choose a Greenheck fan, you have selected a fan with the industry's best performance and durability for restaurant and grease applications (as stated in NFPA 96 Vapor Removal from Cooking Equipment). Models CUBE, CUE, CWB, and CW fans are specifically designed for use in restaurant applications to discharge air directly away from the mounting surface.

- Most advanced motor cooling of any fan in its class.
- Greenheck pioneered leakproof construction for the entire life of the fan utilizing a one-piece windband continuously welded to the curb cap.
- UL/cUL 762 Listed for exhausting grease.



Ultimate Steel Grease Fan for Heavy-Grease Applications

Model USGF

When you choose a Greenheck model USGF fan, you have selected a fan with the industry's best performance and durability for heavy-grease applications (as stated in NFPA 96 Vapor Removal from Cooking Equipment). The USGF fan is specifically designed for severe grease applications to remove high amounts of grease and/or solid fuels and to discharge air directly away from the mounting surface.

- Only spun steel fan in the industry.
- Withstands the most severe cleaning conditions.
- Most advanced motor cooling of any grease fan. Capable of continuously handling 400°F (204°C) airstream temperatures.
- UL/cUL 762 Listed for exhausting grease.
- Only kitchen specific exhaust fan to meet Miami-Dade Test protocols for Large Missile Impact Test



High Wind & Hurricane

Models CUBE, CUE and USGF



Greenheck is leading the High Wind Standard for roof top fans and ventilators. Forceful winds and wind-borne debris are the cause of most hurricane damage. Hurricane winds start at 75 mph. At speeds over 150 mph, wind can exert a force of 130 pounds per square foot pressure or over 900 pounds on a fan and curb. Forceful winds are not the only problem; wind-borne debris can also cause detrimental effects to objects and structures. High winds and extreme forces are the cause of most storm damage. By analyzing calculations, computer simulations, actual testing, and other standards — Greenheck developed the High Wind Standard.

Protocols designed to protect against wind-borne debris and severe wind loads:

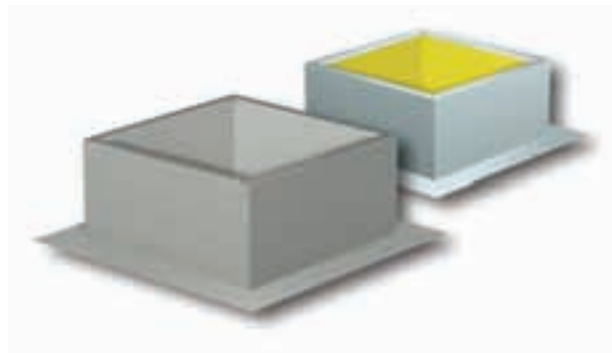
Structural Performance Load	A static load that is 1.5 times the design load (195 pounds per square foot pressure) is applied both positive and negative to simulate wind force loads in each direction. Structural Performance per Dade County Protocol TAS-202 (ASTM E-330).
Large Missile Impact Test	Large Missile Impact Testing is required when objects are located 30 feet or less from the ground. The test is per Dade County Protocol TAS-201. The test unit is impacted three times with a piece of lumber (2 in. x 4 in. x 6 ft.) weighing approximately nine pounds and traveling at 34 mph. This simulates wind-borne debris striking the fan.
Miami-Dade County Test Protocols	Greenheck has gone the extra mile and worked with Miami-Dade County to design a High Velocity Hurricane Zone standard for rooftop fans. The USGF has become the first rooftop fan certified and approved by the Miami-Dade Building Code Compliance office and Texas Department of Insurance for use in hurricane zones.
Miami-Dade NOA Numbers	The certifications can be viewed on the Miami-Dade County web site under the NOA numbers listed below. Models CUBE, CUE and USGF are the first upblast aluminum/steel fans in the industry that have received a Miami-Dade NOA for high wind (150 mph) and hurricane zones. CUBE: 08-0519.02, CUE: 08-0519.02 and USGF: 08-0519.01
Texas Department of Insurance	The certifications can be viewed on the Texas Department of Insurance Windstorm web site under TDI number RV-42.
State Licensed P.E. Calculations	Structural calculations performed by a state licensed Professional Engineer (P.E.) on models CUBE, CUE and USGF 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. The ASCE 7-02 Standard meets the IBC, Florida and Miami-Dade codes. The models have been proven to withstand winds in excess of 150 mph (61 psf).
Certified Independent Third-Party Testing	Each of the Greenheck models have been subjected to extensive testing procedures. The CUBE, CUE and USGF have been certified by an independent third party to the ASTM E-330 Static Pressure Difference Standard, Florida Building Code Test Protocols TAS-202 Static Pressure Difference and TAS-201 Large Missile Impact. All tests are video taped for documentation of test method and results.
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.

Applications: Severe-Duty Roof Curbs for High Wind and Hurricane

High wind and severe-duty roof curbs are available on CUBE, CUE and USGF models with high wind certification. The severe-duty roof curb models can ship separate to allow for final finishing of the roof prior to the fan arrival and installation.

Model GPF — This roof curb is specifically designed for high wind applications up to 150 mph, used on fan models CUBE and CUE. Standard height is 12 inches (305 mm), fully-welded straight sides with a 5-inch flashing flange. GPF is available up to 18-inches (460 mm) in height to meet greater height requirements.

Models SD and SDP — The severe-duty curbs are specifically designed for high wind applications up to 150 mph and used on models CUBE, CUE and USGF fans. Model SD is for use on flat roofs and model SDP for pitched roofs. They are attached directly to the building structure with extremely high structural design load requirements. Maximum design load is 140 psf. The severe-duty curbs are 12-gauge coated steel with a 1.75-inch lip on the top and a 4-inch flange on the bottom. SD curbs are available in heights of 12-24 inches. Heights greater than 18 inches are reinforced in the interior with 12-gauge by 2-inch angles. SDP curbs available in heights 14-18 inches and are reinforced in the interior with 12-gauge by 2-inch angles.



Large missile impact test on a model USGF fan.

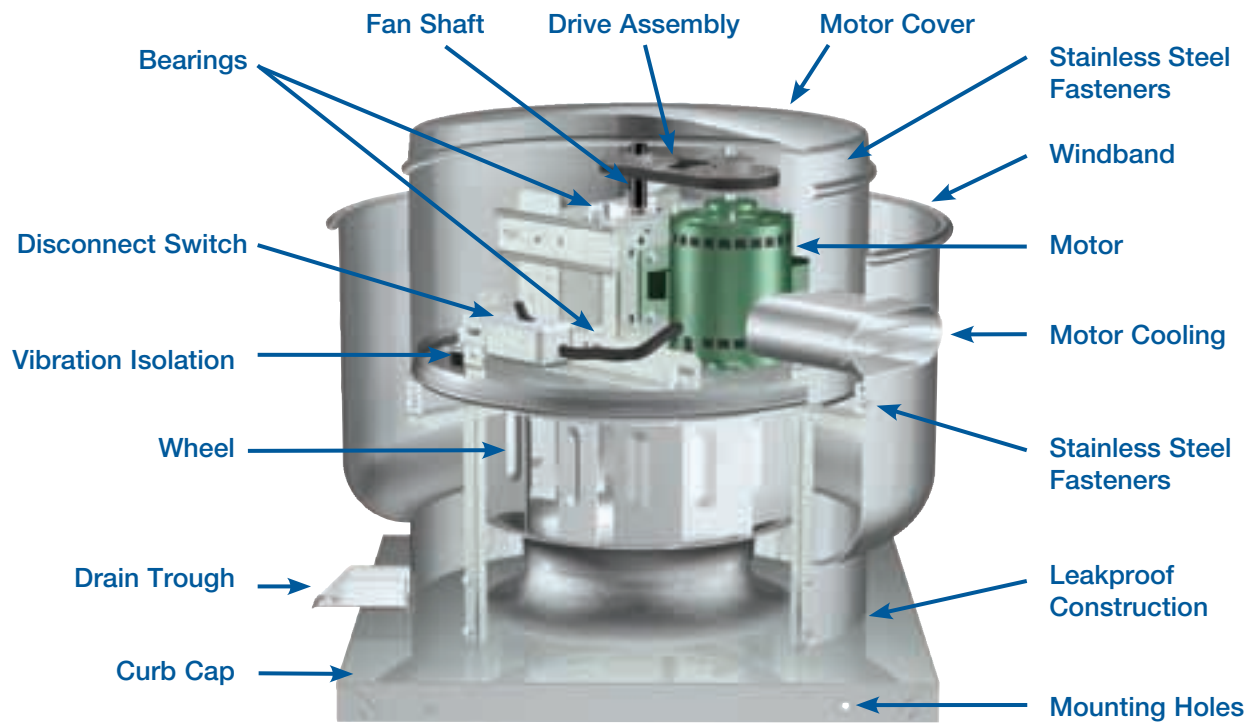


Standard Construction Features

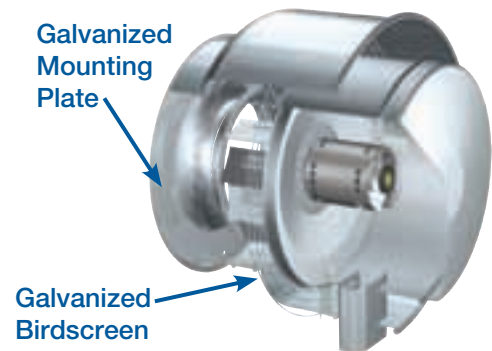
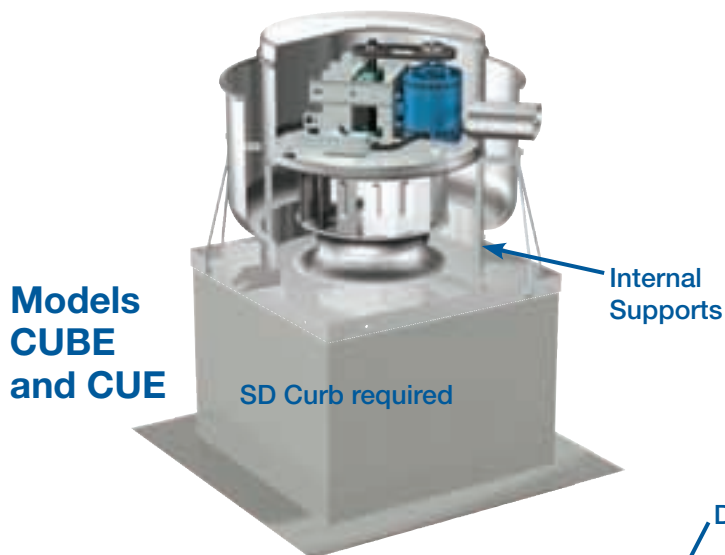
Standard Construction Features		CUE CUBE	CW CWB	USGF	S-CUBE
Wheel	An aluminum, backward-inclined, non-overloading centrifugal wheel is utilized to generate high-efficiency and minimal sound. Wheel cones are carefully matched to the venturi for maximum efficiency. Each wheel is statically and dynamically balanced for long life and quiet operation.	✓	✓	✓ *Non-Stick, Steel	✓ *Steel
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 Code (NEC) and are either UL/cUL Listed or Recognized.	✓	✓		
	NEMA-3R switch is factory mounted and wired as standard. All wiring and electrical components comply with the National Electric Code (NEC) and are either UL/cUL Listed or Recognized.			✓	✓
Fan Shaft	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 L ₁₀ life in excess of 100,000 hours (L ₅₀ life of 500,000 hours).	✓	✓	✓	✓
Motor	Carefully matched to the fan load and is mounted out of the airstream.	✓	✓	✓	✓
Motor Cover	Constructed of aluminum. Attached with stainless steel fasteners for easy removal and access to the motor compartment and drive assembly.	✓	✓	✓ *Steel	✓
Motor Cooling Tube	Cooling fins located on top of fan wheel draw outside air through a large breather tube directly into the motor compartment. Positive motor cooling with fresh air results in maximum motor life.	✓	✓	✓	✓
Stainless Steel Fasteners	Allow easy removal and access to the motor compartment and drive assembly.	✓	✓	✓	✓
Lifting Points	Various lifting points located on the drive frame and bearing plate.	✓	✓	✓	✓
Vibration Isolation	True vibration isolators consist of two independent studs separated by a neoprene (rubber) center. Reduces vibration and noise transfer between drive system and fan housing. (No steel to steel contact. Factory mounted ground wire used to ground system).	✓	✓	✓	✓
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.	✓	✓	✓	✓
Dual Drives	Oversized 150%, adjustable, static-free and oil-resistant.			✓	
Windband	One-piece, heavy-gauge aluminum with a rolled bead for extra strength directs exhaust air away from the mounting surface.	✓	✓	✓ *Steel	✓
Leakproof Construction	One-piece windband is continuously welded to the curb cap and drain trough for leakproof protection on models CUE, and CUBE sizes 98 through 300 and all sizes with UL/cUL 762.	✓	✓	✓	✓
Curb Cap with Mounting Holes	One-piece for a weather-tight fit. Constructed of aluminum with an integral deep spun venturi. Aluminum curb cap has pre-punched mounting holes to ensure correct attachment to the roof.	✓	✓	✓ *Steel	✓
Drain Trough	Allows for one-point drainage of water, grease and other residues.	✓		✓	✓
Internal Conduit Chase	For easy internal electrical wiring in applications, not subject to NFPA.	✓	✓		
Nameplate	Permanent stamped aluminum nameplate for exact model and serial number identification.	✓	✓	✓	✓
Galvanized Birdscreen	Rigid wire protects the fan discharge from birds and small objects. Standard on all sidewall fan models.		✓		
Galvanized Mounting Plate	Allows mounting and sealing to the wall prior to mounting the entire unit. The remainder of the unit is attached to the mounting plate without locating and fastening problems associated with mounting a heavy sidewall unit to a wall.		✓		
Heat Baffle	Extends motor life by reducing the amount of heat that penetrates through the bottom of the motor support pan.			✓	✓
Internal Supports	Heavy-gauge supports and bracing are added for additional strength to withstand winds of 150 mph.				
Hinged Curb Cap with Cables	Allows maintenance personnel to hinge the entire fan up to gain access to wheel and ductwork for regular inspection and cleaning.			✓	
Permatector™ Coating	Typically used for applications that require corrosion resistance in indoor and outdoor environments.			✓	

*Differences from the standard construction feature.

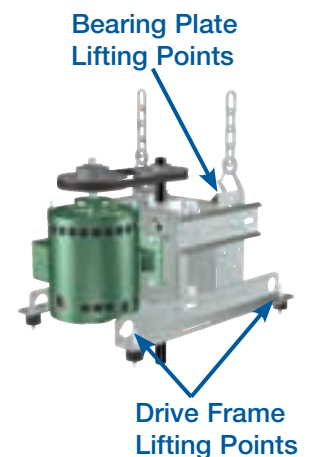
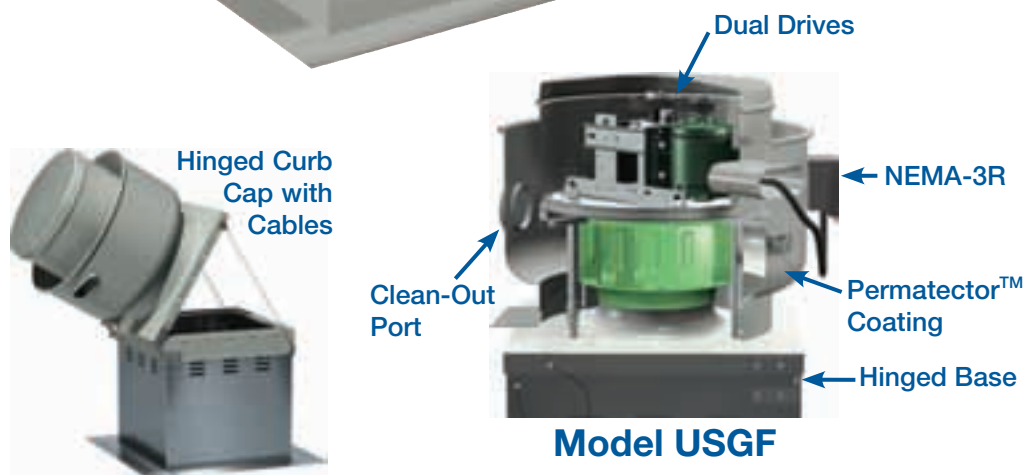
Standard Construction Features



Models CUBE and CUE



Models CWB & CW



Options and Accessories

Roof Curbs — Wide variety of roof curbs are available for mounting the fan to the roof, including: vented, flanged, pitched, and sound-absorbing. For more information on severe-duty curbs refer to the information on page 8.



Hinged Curb Cap Kit with Cables — The hinged curb cap allows the entire fan to swing open to allow maintenance personnel access to the wheel and ductwork for regular inspection and cleaning. Hinged curb cap kit with cables is an option on all upblast models. A factory mounted option is available on all upblast models size 220-480.



Hinged Base — Allows for easy maintenance. Hinge and restraining cables are factory mounted to a subbase attached directly to curb without additional height added. Mounted hinged base with cables standard on all USGF fans.

Drain Connection — Allows for single-point drainage of grease, water or other residues.



Grease Trap — Aluminum trap designed to collect grease residue to avoid drainage onto roof surface.

Grease Trap with Absorbent Material — Same as above with an absorbent material to collect grease residue for easy disposal.



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

Curb Extensions — Models GPE and GPEX are available for model S-CUBE. Mounts between roof curb and fan for additional height from roof top.

Vented Curb Extensions — Mounts between roof curb and roof mounted fan to meet NFPA requirements of 40-inch (1016 mm) minimum discharge above the roof when mounted on a minimum 8-inch (203 mm) high roof curb.



Non-Stick Aluminum Wheel — Patented coating helps prevent wheel imbalance in heavy-grease applications and allows buildup on wheel to be easily removed. Patent No. 5,809,993 standard non-stick steel wheel on model USGF.



Clean-Out Port — Patented removable plug allows for easy spray or steam cleaning of wheel through the windband. Available on select models. Patent No. 5,809,993



Disconnect Switches — Assorted NEMA rated switches are available for positive electrical shutoff and safety, including: dust-tight, rainproof and corrosion-resistant.



Windband Extension — Aluminum tube raising the fan discharge an additional 36-inch (914 mm) minimum for special code requirements.

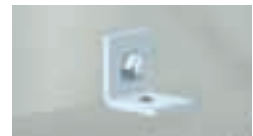


Birdscreen — Galvanized or aluminum rigid wire to protect the fan discharge from birds or small objects. Galvanized is standard on models CWB and CW models.

Dampers — Designed to prevent outside air from entering back into the building when fan is off. Includes backdraft and motorized dampers. (Not available with UL/cUL 762 or USGF fans)



Tie-Down Points — Four brackets located on the windband for securing the fan in heavy-wind applications.



Speed Controllers — Available for use with shaded pole and permanent split capacitor open motors on direct drive fans. They provide an economical means of system balancing.



UL/cUL 705 — Models CUBE, CUE, CWB, and CW, may be listed for electrical. Model S-CUBE comes standard with UL 705.

UL/cUL 762 — Models CUBE, CUE, CWB, and CW, may be listed for grease removal. Model USGF comes standard with UL 762.

UL/cUL Emergency Smoke Control — Models S-CUBE and USGF may be listed for emergency smoke control.

The following chart shows which options and accessories are available on Greenheck's roof upblast and sidewall exhaust fans.

Options and Accessories	CUBE	CUE	CWB	CW	S-CUBE	USGF
Roof Curbs	Option	Option			Option	Option
Hinged Curb Cap with Cables	Option	Option			Option	Standard
Hinged Base	Option	Option			Option	Standard
Drain Connection	Option	Option				Option
Grease Trap	Option	Option				Option
Grease Trap with Absorbent Material	Option	Option				Option
Curb Seal	Option	Option			Option	Option
Curb Extensions	Option	Option			Option	Option
Non-Stick Wheel	Option	Option	Option	Option		Standard
Clean-Out Port	Option	Option				Standard
Disconnect Switches	Standard	Standard	Standard	Standard	Standard	Standard
Windband Extension	Option	Option			Option	
Birdscreen	Option	Option	Standard	Standard	Option	
Dampers	Option	Option	Option	Option		
Tie-Down Points	Option	Option			Option	Option
Speed Controllers		Option		Option		
UL 705	Option	Option	Option	Option	Standard	
UL 762	Option	Option	Option	Option		Standard
UL Emergency Smoke Control Systems					Standard	Option
Coatings	Option	Option	Option	Option	Option	Standard

Coatings — Wide variety of coatings and colors are available for decorative to protective applications.



Primer is applied at the factory to allow for final finish in the field. Not available on model USGF.



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



Hi-Pro Polyester is resistant to salt water, chemical fumes and moisture in more corrosive atmospheres. Typically used for applications that require superior chemical resistance, excellent abrasion and outdoor UV protection. This coating exceeds protective qualities of Air Dried Heresite and Air Dry Phenolic.

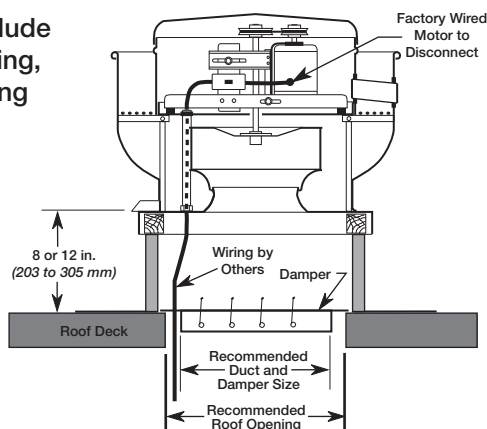


Baked Enamel Decorative Coatings are heat cured enamels applied either as wet paints or electrostatic powders. Customers can choose from 16 standard decorative colors or color match any color. *Note: colors are subject to change. See Performance Coatings for Commercial & Industrial Fans brochure for more details.*

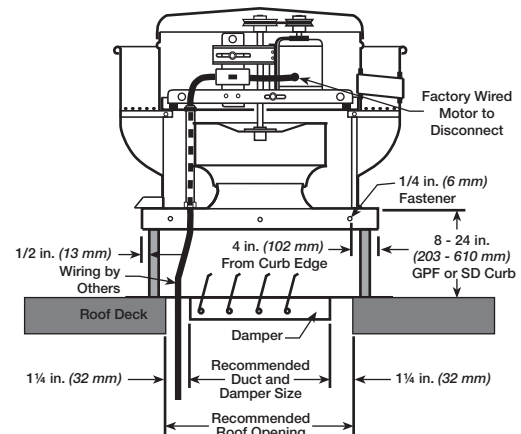
General Clean Air/Fume Hood (Non Grease)

All CUBE, CUE, CWB and CW, exhaust fans are designed for applications ranging from clean air to contaminated air. A typical installation is shown. Sizes 95 and smaller can handle temperatures up to 130°F (54°C).

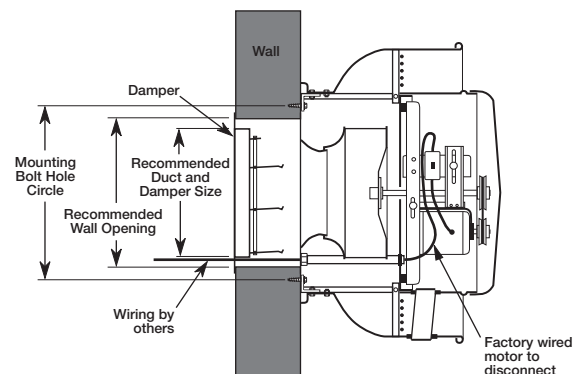
- When roofing materials extend to the top of the curb, roof curbs should be 1½-inches (¾-inch on a side) less than the unit curb cap to allow for roofing and flashing.
- For recommended duct size, damper size and roof opening dimensions, refer to the performance data pages.
- Installation must include a means for inspecting, cleaning and servicing the exhaust fan.



Models CUBE and CUE



Models CUBE and CUE

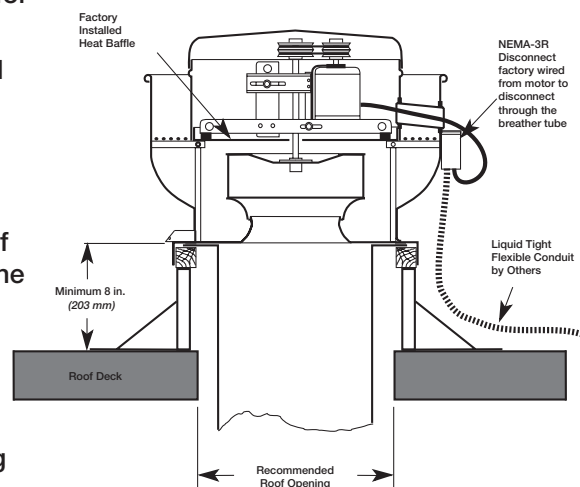


Models CWB and CW

Emergency Smoke Control

The S-CUBE is specifically designed for Emergency Smoke Control applications. These fans are UL/cUL Listed for Electrical and Power Ventilators for Smoke Control Systems for 500°F (260°C) for 4 hours and 1,000°F (538°C) for 15 minutes.

- 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.
- When roofing materials extend to the top of the curb, roof curbs should be 1.5-inches (¾-inch on a side) less than the unit curb cap to allow for roofing and flashing.
- For recommended duct size, damper size and roof opening dimensions, refer to the performance data pages.
- Installation must include a means for inspecting, cleaning and servicing the exhaust fan.
- Exhaust fans used in emergency smoke applications must have external wiring. (Wiring must not be installed in the airstream).

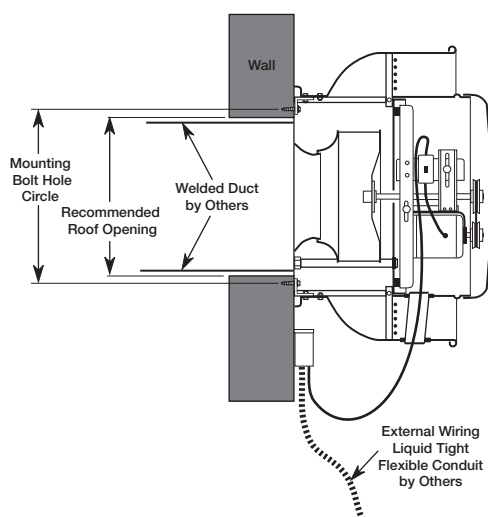


Models S-CUBE

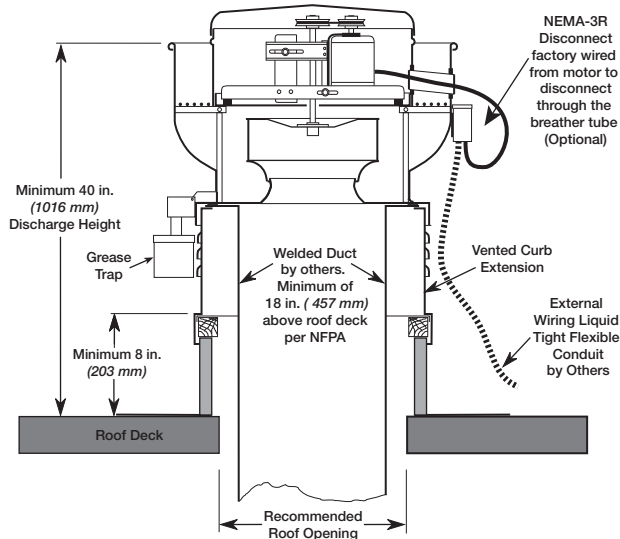
Commercial Kitchen (Grease)

Models CUBE, CUE, CWB and CW, and sizes 098 and larger and all USGF fans are designed to meet restaurant and food service applications. These fans are UL/cUL Listed for grease removal and have been tested under high temperature [400°F (204°C)] and abnormal flare-up [600°F (316°C)] conditions.

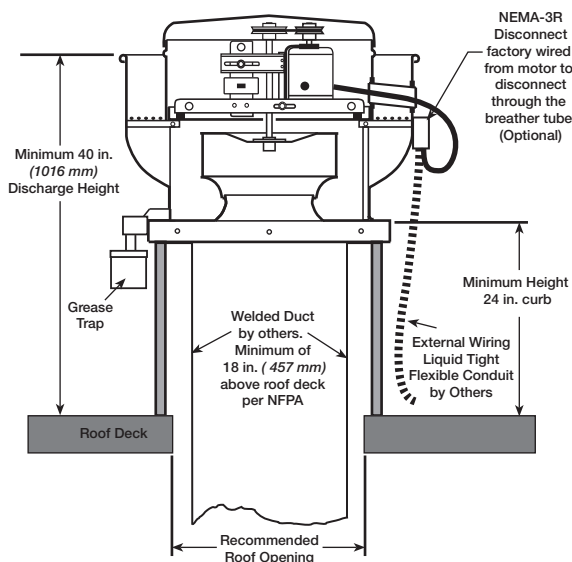
- Due to high temperatures and grease-laden airstreams in commercial kitchen ventilation, system designers must be aware of governing codes and guidelines. The National Fire Protection Association (NFPA) is the primary source which governs many codes for commercial kitchen ventilation. Selected information from NFPA 96 is shown below. Local code authorities should be consulted before proceeding with any kitchen ventilation project.
- Exhaust fans used in kitchen ventilation applications must have external wiring. (Wiring must not be installed in the airstream).
- Installation must include a means for inspecting, cleaning and servicing the exhaust fan. Greenheck offers a Hinged Curb Cap option for upblast exhaust fans and the Hinged Base is standard on model USGF.
- No dampers are to be installed in the system.



Models CWB & CW



**Models CUBE & CUE
Vented Installation**



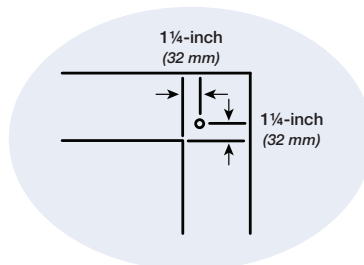
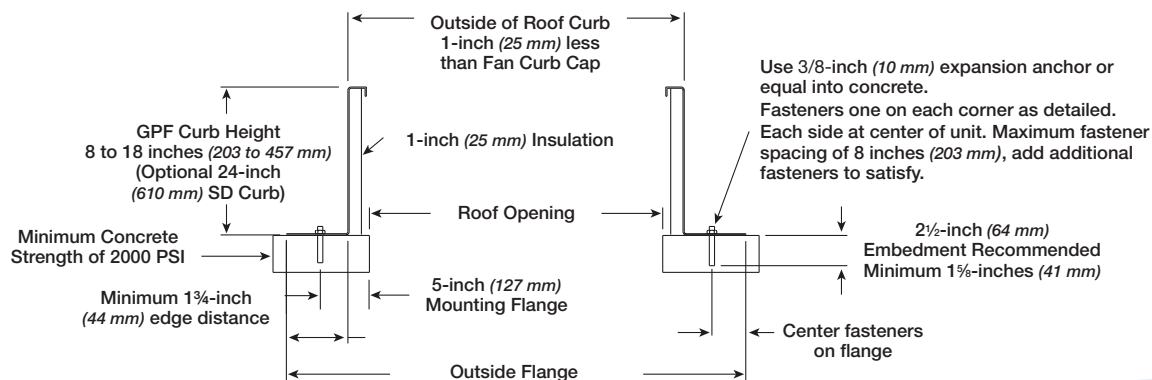
**Models CUBE & CUE
Fire Wrapped Installation**

Note: The typical installations shown on these two pages are recommendations based on national codes. Local authority may supersede these recommendations.



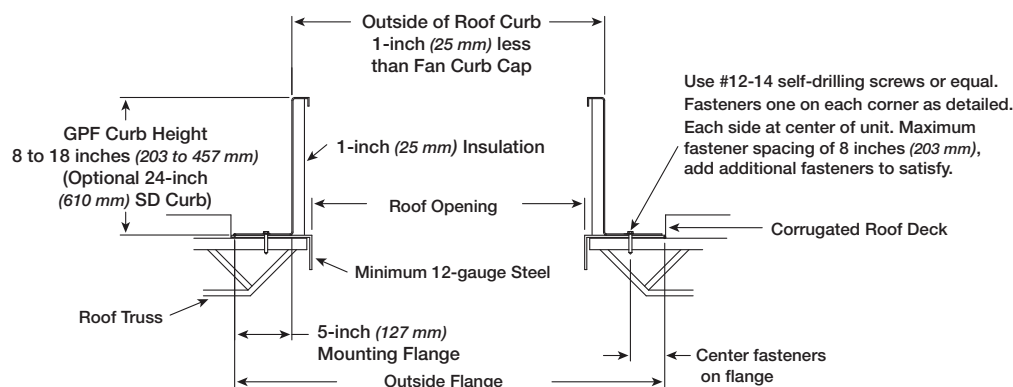
Severe-Duty Curbs Anchoring: for Hurricane and Seismic Fans

Concrete Deck Anchoring

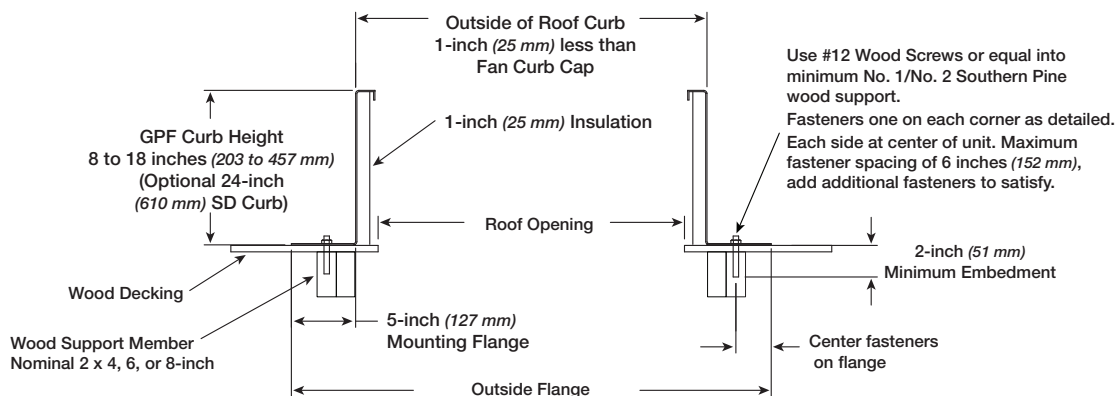


**Corner Detail for
all Severe-Duty
Deck Anchoring**

Metal Building/Steel Deck Anchoring



Wood Deck Anchoring



Severe-Duty Curbs Anchoring: for Hurricane and Seismic Fans

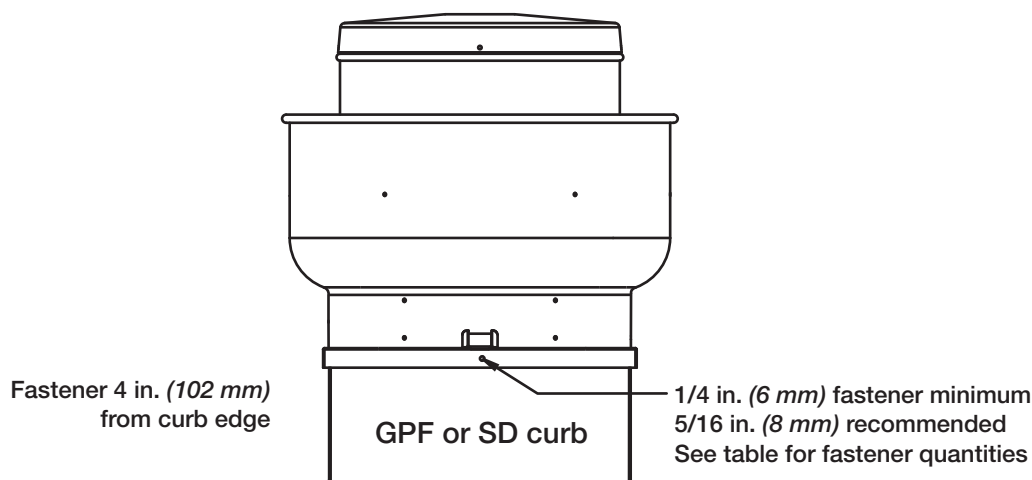
Required Severe-Duty Curb to Roof Anchoring

Seismic Models		Hurricane	Square Dimensions			Concrete	Metal/ Steel	Wood
CUE Size	CUBE Size	*USGF Size	Fan Curb Cap	Roof Opening	Outside Flange	Fasteners Per Side		
060 - 075			17 (432)	10½ (267)	26 (660)	5	5	5
080 - 095			19 (483)	12½ (318)	28 (711)	5	5	5
098 - 131	098 - 131		19 (483)	14½ (368)	28 (711)	5	5	5
141 - 161	141 - 161		22 (559)	18½ (470)	31 (787)	5	5	5
		140 - 160	26 (660)	18½ (470)	33 (838)	5	5	5
		180 - 200	30 (762)	20½ (521)	37 (940)	7	7	7
180 - 200	180 - 200		30 (762)	20½ (521)	39 (991)	7	7	7
	220 - 240		34 (864)	26½ (673)	43 (1092)	7	7	7
	300		40 (1016)	32½ (826)	49 (1245)	7	7	9
	360		46 (1168)	38½ (978)	55 (1397)	7	7	9
	420		52 (1321)	44½ (1130)	61 (1549)	7	7	9
	480		58 (1473)	50½ (1283)	67 (1702)	7	7	9

All dimensions in inches (millimeters). *The outside flange dimension shown above is for the GPF curbs. Subtract 2 inches (51mm) if the SD Curb is being used.

Required Severe-Duty Fan to Curb Mounting

Models CUBE, CUE and USGF

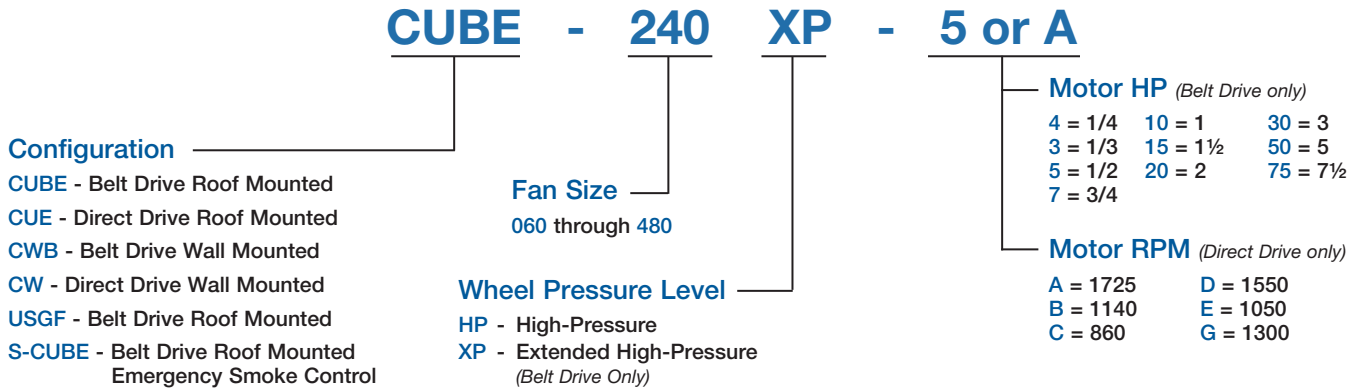


Seismic		Hurricane	Fasteners	
CUE Size	CUBE Size	USGF Size	Fasteners Per Side	Total Fasteners
060 - 161	098 - 161		3	12
180 - 200	180 - 240	140 - 200	5	20
			9	36
	300 - 480		5	20

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.

Model Number Code

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

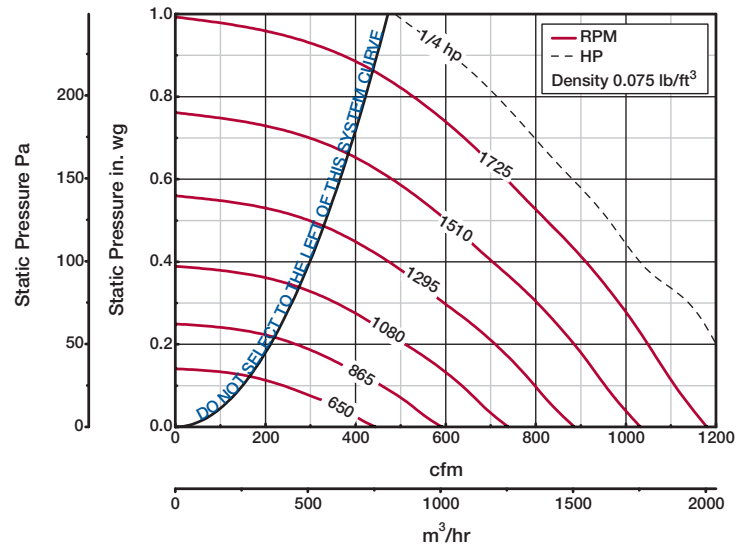
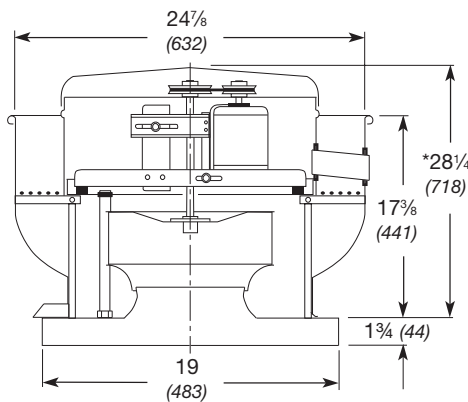


Performance & Dimension Page Number by Model Size

Size	Belt Drive				Size	Direct Drive	
	CUBE	S-CUBE	USGF	CWB		CUE	CW
098	p. 18			p. 54	060		
101	p. 19	p. 19		p. 55	065	p. 45	p. 73
101HP	p. 20	p. 20		p. 56	070		
121	p. 21	p. 21		p. 57	075	p. 46	p. 74
131	p. 22	p. 22		p. 58	080		
140			p. 23		085	p. 47	p. 75
140HP			p. 24		090	p. 48	p. 76
141	p. 23	p. 23		p. 59	095	p. 49	p. 77
141HP	p. 24	p. 24		p. 60	098		
160			p. 25		101	p. 50	p. 78
160HP			p. 26		121		
160XP			p. 27		131	p. 51	p. 79
161	p. 25	p. 25		p. 61	141		
161HP	p. 26	p. 26		p. 62	141HP		
161XP	p. 27				161	p. 52	p. 80
180	p. 28		p. 28	p. 63	161HP		
180HP	p. 29		p. 29	p. 64	180		
200	p. 30	p. 30	p. 30	p. 65	180HP	p. 53	p. 81
200HP	p. 31		p. 31	p. 66	200		
220	p. 32			p. 67			
220HP	p. 33			p. 68			
240	p. 34	p. 34		p. 69			
240HP	p. 35			p. 70			
240XP	p. 36						
300	p. 37	p. 37		p. 71			
300HP	p. 38			p. 72			
300XP	p. 39						
360	p. 40	p. 40					
360HP	p. 41						
360XP	p. 42						
420	p. 43	p. 43					
480	p. 44	p. 44					

Roof Upblast - Belt Drive

Size-098: CUBE



CUBE

Damper Size = 12 x 12 (305 x 305)
Roof Opening = 14 1/2 x 14 1/2 (368 x 368)
Windband 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)

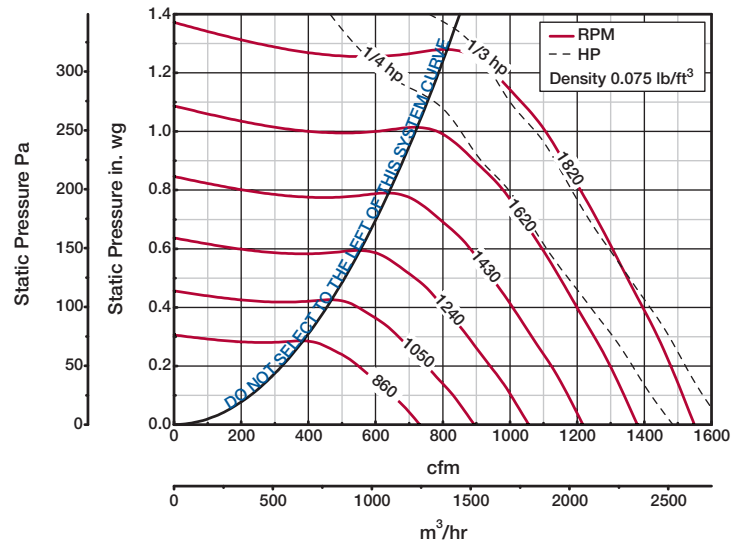
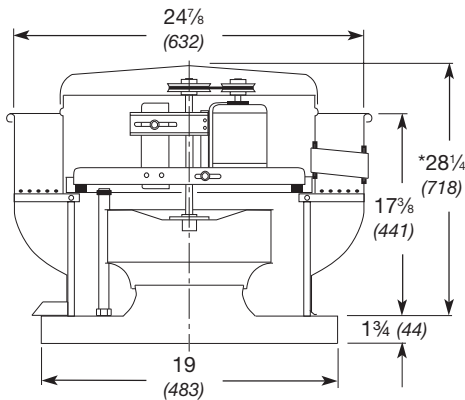
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	Fan RPM	CFM / Static Pressure in Inches wg										
				0	0.05	0.1	0.125	0.2	0.25	0.375	0.5	0.625	0.75
098-4	1/4	650	CFM	445	357	239							
			BHP	0.01	0.01	0.01							
			Sones	8.1	8.5	9.9							
		755	CFM	516	442	352	301						
			BHP	0.02	0.02	0.02	0.02						
			Sones	8.3	8.4	8.9	9.3						
		860	CFM	588	523	453	409	258					
			BHP	0.02	0.02	0.02	0.02	0.02					
			Sones	8.4	8.4	8.5	8.7	9.1					
		965	CFM	660	600	543	509	392	294				
			BHP	0.03	0.03	0.03	0.04	0.04	0.04				
			Sones	8.7	8.6	8.6	8.5	8.6	8.6				
		1070	CFM	732	677	627	600	500	428				
			BHP	0.04	0.04	0.04	0.05	0.05	0.05				
			Sones	8.9	8.8	8.6	8.6	8.4	8.4				
		1175	CFM	804	752	708	684	603	537	350			
			BHP	0.06	0.06	0.06	0.06	0.06	0.06	0.06			
			Sones	9.3	9.2	9.0	8.9	8.7	8.6	8.2			
		1280	CFM	875	828	787	766	696	642	488			
			BHP	0.07	0.07	0.07	0.07	0.08	0.08	0.08			
			Sones	10.2	10.1	9.9	9.8	9.7	9.5	9.3			
		1385	CFM	947	903	864	845	785	738	603	448		
			BHP	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10		
			Sones	11.2	11.1	10.9	10.8	10.7	10.6	10.4	10.3		
		1490	CFM	1019	978	940	923	868	829	710	578	409	
			BHP	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	
			Sones	12.3	12.2	11.9	12.0	11.8	11.8	11.5	11.5	11.6	
		1595	CFM	1091	1053	1016	1000	950	914	813	692	560	
			BHP	0.14	0.14	0.14	0.14	0.14	0.15	0.16	0.16	0.16	
			Sones	13.2	13.1	12.8	12.8	12.5	12.5	12.3	12.1	12.2	
		1725	CFM	1180	1144	1109	1094	1049	1017	929	824	712	586
			BHP	0.18	0.18	0.18	0.18	0.18	0.18	0.20	0.20	0.20	0.20
			Sones	13.8	13.6	13.5	13.4	13.1	13.0	12.7	12.2	12.1	12.3

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-101: CUBE • S-CUBE



CUBE • S-CUBE

Damper Size = 12 x 12 (305 x 305)
Roof Opening = 14 1/2 x 14 1/2 (368 x 368)
Windband 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)

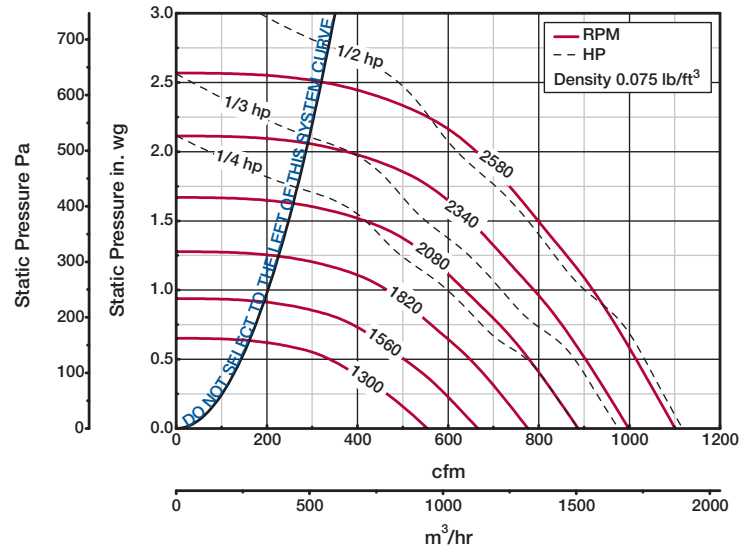
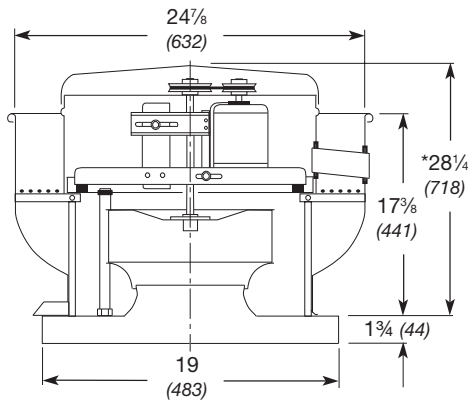
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg										
				0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.25	
101-4	1/4	860	CFM	732	625	481		MAXIMUM BHP AT A GIVEN RPM = (RPM/2591) ³ MAXIMUM RPM = 1820 TIP SPEED (ft/min) = RPM x 2.913 MAXIMUM MOTOR FRAME SIZE = 56 AVERAGE DISCHARGE VELOCITY (FPM) = CFM/1.28						
			BHP	0.03	0.04	0.04								
			Sones	4.6	2.4	0.6								
		958	CFM	815	722	609								
			BHP	0.04	0.05	0.05								
			Sones	5.5	4.5	3.3								
		1056	CFM	899	817	718	593							
			BHP	0.06	0.06	0.07	0.07							
			Sones	6.6	6.3	5.7	5.4							
		1154	CFM	982	910	821	724	574						
			BHP	0.07	0.08	0.09	0.09	0.08						
			Sones	7.3	7.1	6.6	6.1	5.8						
		1252	CFM	1066	1000	920	834	732						
			BHP	0.09	0.10	0.11	0.11	0.11						
			Sones	8.0	8.0	7.6	6.9	6.5						
		1350	CFM	1149	1089	1016	940	856	745					
			BHP	0.12	0.13	0.13	0.14	0.14	0.14					
			Sones	8.9	8.9	8.6	8.1	7.5	7.0					
		1448	CFM	1233	1176	1112	1040	966	886	763				
			BHP	0.14	0.15	0.16	0.17	0.17	0.17	0.17				
			Sones	10.3	10.2	9.9	9.5	9.0	8.3	8.0				
		1546	CFM	1316	1264	1206	1139	1072	999	915	820			
			BHP	0.17	0.19	0.20	0.20	0.21	0.21	0.21	0.21			
			Sones	11.8	11.5	11.3	10.9	10.5	9.8	9.3	9.0			
		1660	CFM	1413	1365	1313	1251	1189	1125	1056	974	861		
			BHP	0.22	0.23	0.24	0.25	0.26	0.26	0.26	0.26	0.25		
			Sones	12.7	12.3	12.0	11.6	11.3	10.8	10.2	9.6	9.4		
101-3	1/3	1740	CFM	1481	1435	1386	1329	1270	1210	1146	1093	991		
			BHP	0.25	0.26	0.27	0.28	0.29	0.30	0.30	0.30	0.30		
			Sones	13.4	13.0	12.6	12.1	11.8	11.4	10.9	10.5	9.7		
		1820	CFM	1549	1505	1459	1406	1350	1293	1234	1184	1106	900	
			BHP	0.28	0.30	0.31	0.32	0.33	0.34	0.35	0.35	0.35	0.33	
			Sones	14.3	13.7	13.4	12.7	12.4	12.0	11.6	11.3	10.6	10.1	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-101HP: CUBE • S-CUBE



CUBE • S-CUBE

Damper Size = 12 x 12 (305 x 305)
Roof Opening = 14 1/2 x 14 1/2 (368 x 368)
Windband 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)

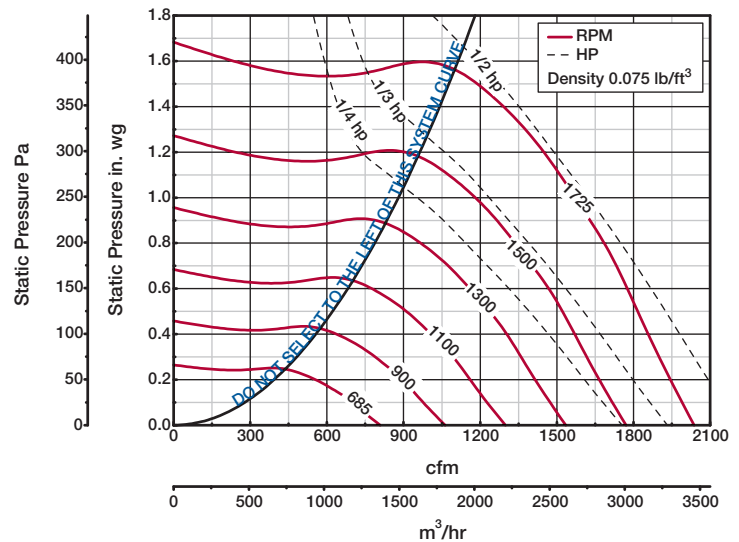
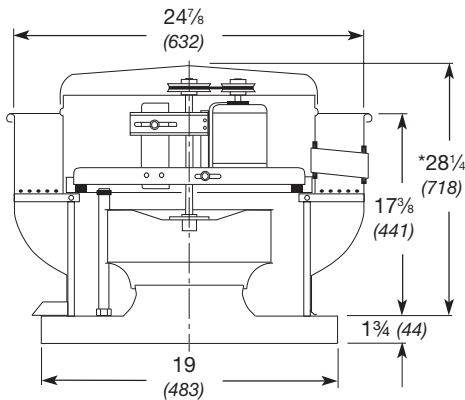
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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	
101HP-4	1/4	1300	CFM	335	182			MAXIMUM BHP AT A GIVEN RPM = (RPM/3195) ³ MAXIMUM RPM = 2580 TIP SPEED (ft/min) = RPM x 2.913 MAXIMUM MOTOR FRAME SIZE = 56 AVERAGE DISCHARGE VELOCITY (FPM) = CFM/1.28						
			BHP	0.07	0.06									
			Sones	6.0	6.3									
		1420	CFM	419	350	191								
			BHP	0.09	0.09	0.07								
			Sones	6.8	6.6	6.9								
		1540	CFM	491	438	371								
			BHP	0.11	0.11	0.11								
			Sones	7.8	7.5	7.3								
		1660	CFM	560	512	461	262							
			BHP	0.14	0.14	0.14	0.12							
			Sones	8.9	8.6	8.4	8.3							
		1780	CFM	627	583	538	430							
			BHP	0.17	0.17	0.17	0.17							
			Sones	10.3	9.9	9.6	9.1							
		1900	CFM	688	651	610	520	382						
			BHP	0.20	0.21	0.21	0.21	0.19						
			Sones	12.1	11.4	11.0	10.5	10.2						
		2045	CFM	761	729	693	615	522	346					
			BHP	0.24	0.26	0.26	0.26	0.26	0.23					
			Sones	13.9	13.5	12.7	12.1	11.5	11.4					
		101HP-3	1/3	2150	CFM	812	782	752	678	600	500			
					BHP	0.28	0.29	0.30	0.30	0.30	0.30			
					Sones	14.1	14.1	13.5	12.5	12.0	11.5			
2250	CFM			860	832	804	737	665	579	456				
	BHP			0.32	0.33	0.34	0.35	0.35	0.35	0.32				
	Sones			14.4	14.4	14.2	13.2	12.5	11.9	11.6				
101HP-5	1/2	2415	CFM	938	914	887	831	765	697	614	498			
			BHP	0.39	0.39	0.41	0.43	0.43	0.43	0.43	0.40			
			Sones	15.1	15.0	15.0	14.5	13.7	12.9	12.2	12.0			
		2580	CFM	1014	992	969	919	861	799	735	655	550	323	
			BHP	0.48	0.48	0.49	0.52	0.53	0.53	0.53	0.53	0.49	0.43	
			Sones	16.8	16.4	16.0	15.7	15.1	14.4	13.7	13.2	12.9	12.5	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-121: CUBE • S-CUBE



CUBE • S-CUBE

Damper Size = 12 x 12 (305 x 305)
Roof Opening = 14 1/2 x 14 1/2 (368 x 368)
Windband 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)

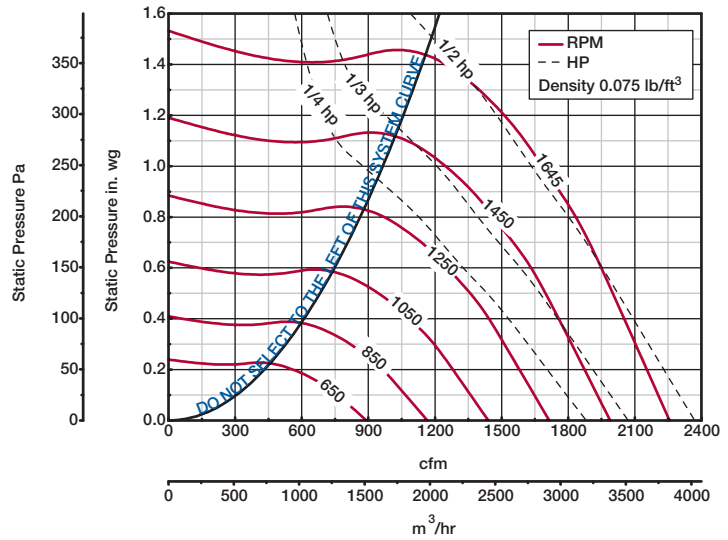
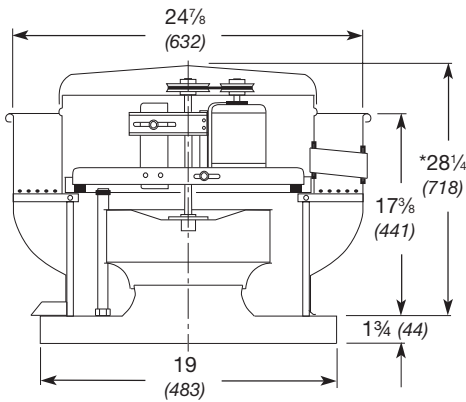
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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
121-4	1/4	685	CFM	809	670								
			BHP	0.02	0.03								
			Sones	4.4	4.4								
		798	CFM	942	824	680							
			BHP	0.04	0.04	0.05							
			Sones	5.0	5.2	5.2							
		911	CFM	1076	971	861	703						
			BHP	0.06	0.06	0.07	0.07						
			Sones	5.6	6.0	6.0	6.0						
		1024	CFM	1209	1115	1025	910	755					
			BHP	0.08	0.09	0.10	0.10	0.10					
			Sones	6.4	6.8	7.0	6.9	6.9					
		1137	CFM	1343	1257	1176	1087	976	825				
			BHP	0.11	0.12	0.13	0.13	0.14	0.13				
			Sones	7.3	7.8	8.1	8.2	8.0	8.1				
121-3	1/3	1250	CFM	1476	1397	1323	1250	1159	1053	916			
			BHP	0.15	0.16	0.17	0.17	0.18	0.18	0.18			
			Sones	8.8	9.3	9.9	9.9	10.0	9.8	9.8			
		1410	CFM	1665	1595	1528	1463	1398	1315	1224	965		
			BHP	0.21	0.22	0.23	0.24	0.25	0.26	0.26	0.25		
			Sones	11.1	11.6	12.2	12.5	12.6	12.7	12.7	12.3		
		1480	CFM	1748	1681	1617	1555	1493	1421	1338	1132		
			BHP	0.25	0.26	0.27	0.28	0.29	0.29	0.30	0.30		
			Sones	11.9	12.4	13.1	13.5	13.7	13.8	13.8	13.6		
		1545	CFM	1824	1760	1699	1639	1580	1518	1441	1262	990	
			BHP	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.34	0.33	
			Sones	12.8	13.4	14.0	14.5	14.7	14.8	14.9	14.9	14.6	
121-5	1/2	1635	CFM	1931	1870	1811	1755	1699	1643	1577	1424	1226	
			BHP	0.33	0.34	0.36	0.37	0.38	0.39	0.40	0.41	0.4	
			Sones	14.1	14.7	15.2	15.9	16.2	16.4	16.6	16.7	16.5	
		1725	CFM	2037	1979	1923	1869	1816	1763	1710	1571	1406	1176
			BHP	0.39	0.40	0.41	0.43	0.44	0.45	0.46	0.47	0.48	0.46
			Sones	15.6	16.1	16.7	17.3	17.9	18.2	18.4	18.7	18.6	18.4

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-131: CUBE • S-CUBE



CUBE • S-CUBE

Damper Size = 12 x 12 (305 x 305)
Roof Opening = 14 1/2 x 14 1/2 (368 x 368)
Windband 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. For specification information and image of each model, please see pages 82-87.

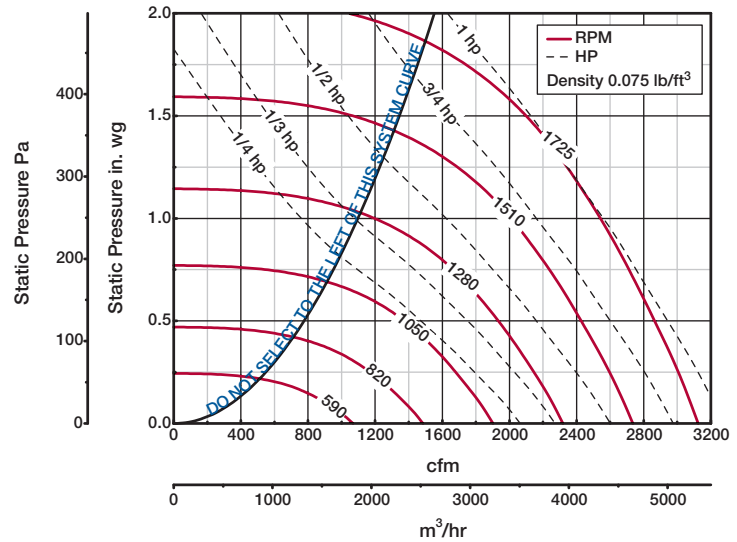
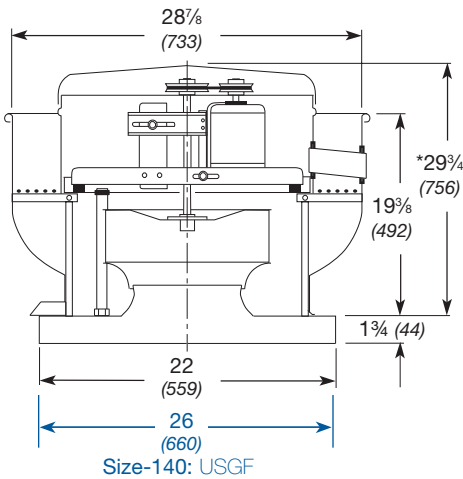
Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg										
				0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.25	
131-4	1/4	650	CFM	892	724			MAXIMUM BHP AT A GIVEN RPM = (RPM/2041) ³ MAXIMUM RPM = 1645 TIP SPEED (ft/mi.) = RPM x 3.420 MAXIMUM MOTOR FRAME SIZE = 56 AVERAGE DISCHARGE VELOCITY (FPM) = CFM/1.28						
			BHP	0.03	0.03									
			Sones	6.2	6.0									
		780	CFM	1070	935	756								
			BHP	0.05	0.05	0.06								
			Sones	7.5	7.3	6.6								
		910	CFM	1248	1133	1007	819							
			BHP	0.07	0.08	0.09	0.09							
			Sones	9.3	9.1	8.5	7.7							
		1040	CFM	1426	1325	1222	1094	919						
			BHP	0.11	0.12	0.13	0.13	0.13						
			Sones	11.3	11.0	10.5	9.8	9.0						
		1170	CFM	1605	1515	1425	1329	1204	1045					
			BHP	0.16	0.17	0.18	0.18	0.19	0.18					
			Sones	12.9	12.6	12.2	11.7	10.8	10.1					
		1305	CFM	1790	1709	1629	1547	1458	1340	1201	1003			
			BHP	0.22	0.23	0.24	0.25	0.26	0.26	0.26	0.24			
			Sones	14.6	14.3	13.9	13.5	13.0	12.0	11.5	10.8			
131-3	1/3	1435	CFM	1968	1895	1822	1749	1671	1586	1479	1358	1198		
			BHP	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.34	0.33		
			Sones	15.7	15.5	15.1	14.8	14.3	13.8	13.1	12.5	11.9		
131-5	1/2	1487	CFM	2039	1969	1898	1828	1754	1677	1579	1471	1339		
			BHP	0.32	0.33	0.34	0.36	0.37	0.38	0.38	0.39	0.38		
			Sones	16.2	15.9	15.7	15.4	14.9	14.5	13.9	13.2	12.7		
		1540	CFM	2112	2044	1976	1908	1838	1764	1678	1577	1465		
			BHP	0.35	0.37	0.38	0.39	0.41	0.42	0.42	0.43	0.43		
			Sones	16.7	16.5	16.2	16.0	15.6	15.2	14.6	14.0	13.4		
		1592	CFM	2183	2117	2052	1986	1920	1848	1774	1678	1578	1301	
			BHP	0.39	0.41	0.42	0.43	0.44	0.46	0.47	0.47	0.47	0.45	
			Sones	17.3	17.0	16.8	16.6	16.2	15.8	15.3	14.8	14.3	13.0	
		1645	CFM	2256	2192	2128	2065	2001	1933	1864	1778	1684	1455	
			BHP	0.43	0.45	0.46	0.47	0.49	0.50	0.51	0.52	0.52	0.51	
			Sones	17.9	17.6	17.4	17.2	16.9	16.5	16.1	15.6	15.1	13.9	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-140: USGF only

Size-141: CUBE • S-CUBE



CUBE • S-CUBE

Damper Size = 16 x 16 (406 x 406)
Roof Opening = 18½ x 18½ (470 x 470)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 84 lb (38 kg)

USGF

Roof Opening = 18½ x 18½ (470 x 470)
Windband Thickness = 0.051 (1.3)
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. For specification information and image of each model, please see pages 82-87.

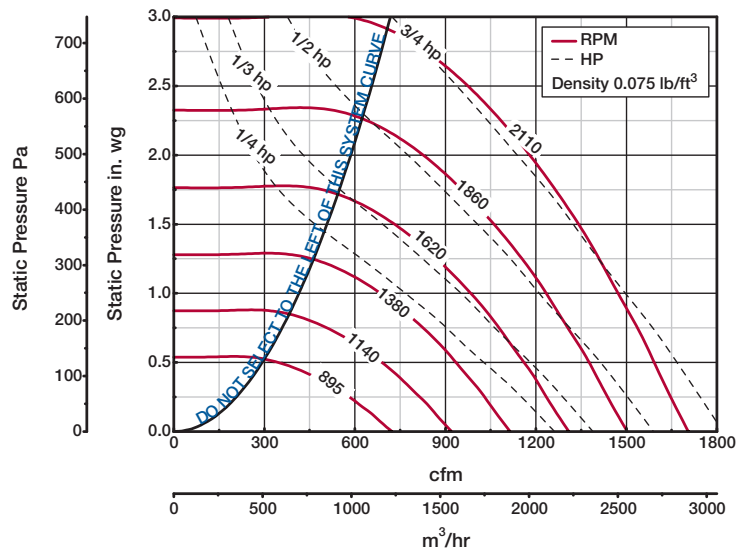
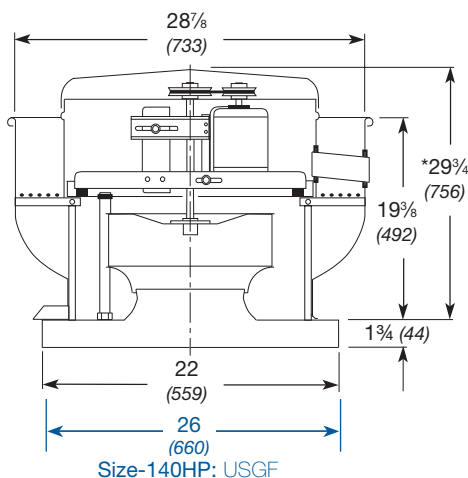
Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg										
				0	0.125	0.25	0.375	0.5	0.75	1	1.25	1.5	1.75	
141-4	1/4	590	CFM	1069	851			MAXIMUM BHP AT A GIVEN RPM = (RPM/1726) ³ MAXIMUM RPM = 1725 TIP SPEED (ft/min) = RPM x 3.829 MAXIMUM MOTOR FRAME SIZE = 145T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/1.72						
			BHP	0.04	0.04									
			Sones	5.0	4.5									
		715	CFM	1295	1130	885								
			BHP	0.06	0.07	0.07								
			Sones	6.0	6.0	5.1								
		840	CFM	1521	1387	1217	969							
			BHP	0.10	0.11	0.11	0.11							
			Sones	7.1	7.3	6.8	6.2							
		965	CFM	1748	1635	1499	1333	1103						
			BHP	0.15	0.16	0.17	0.17	0.17						
			Sones	8.6	8.7	8.5	8.1	7.7						
1105	CFM	2001	1906	1793	1667	1515	998							
	BHP	0.23	0.24	0.25	0.26	0.26	0.23							
	Sones	10.9	10.8	10.6	10.3	10.0	9.6							
141-3	1/3	1210	CFM	2192	2106	2006	1896	1773	1443					
			BHP	0.30	0.31	0.32	0.33	0.34	0.34					
			Sones	12.2	12.2	11.7	11.6	11.2	10.9					
141-5	1/2	1290	CFM	2337	2258	2166	2065	1957	1691	1221				
			BHP	0.36	0.38	0.39	0.40	0.41	0.42	0.37				
			Sones	13.2	13.3	12.7	12.6	12.3	12.0	11.3				
		1390	CFM	2518	2445	2362	2271	2174	1949	1643				
			BHP	0.45	0.47	0.48	0.50	0.51	0.52	0.51				
141-7	3/4	1495	Sones	14.9	14.7	14.2	13.2	12.9	12.1	11.0				
			CFM	2708	2640	2565	2483	2396	2202	1967	1617			
			BHP	0.56	0.58	0.60	0.61	0.62	0.64	0.65	0.61			
		1595	Sones	17.2	16.5	16.3	15.6	13.9	12.5	12.2	10.8			
			CFM	2889	2826	2757	2683	2602	2430	2225	1968	1568		
141-10	1	1725	BHP	0.69	0.70	0.72	0.74	0.75	0.77	0.79	0.78	0.72		
			Sones	20	19.0	18.5	19.5	16.1	13.3	12.3	12.6	11.6		
			CFM	3125	3066	3005	2936	2865	2711	2539	2339	2085	1704	
			BHP	0.87	0.88	0.90	0.92	0.94	0.97	0.99	1.00	0.98	0.91	
			Sones	26	23	22	24	24	15.1	13.4	14.3	13.8	13.8	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-140HP: USGF only

Size-141HP: CUBE • S-CUBE



CUBE • S-CUBE

Damper Size = 16 x 16 (406 x 406)
Roof Opening = 18½ x 18½ (470 x 470)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 84 lb (38 kg)

USGF

Roof Opening = 18½ x 18½ (470 x 470)
Windband Thickness = 0.051 (1.3)
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. For specification information and image of each model, please see pages 82-87.

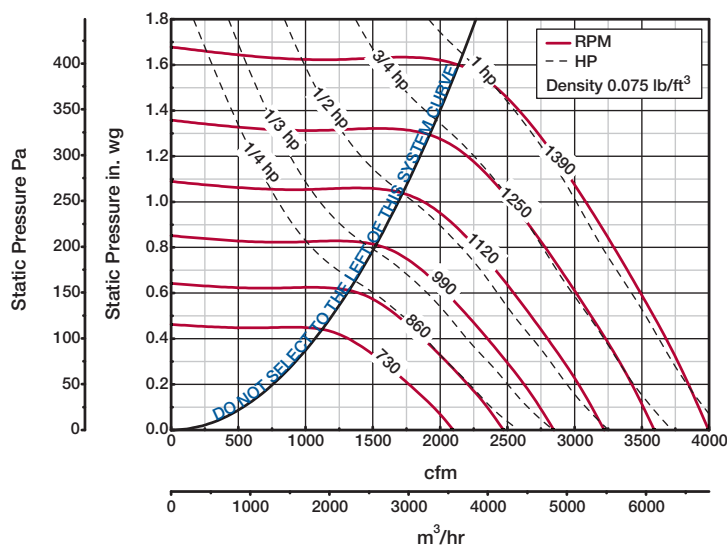
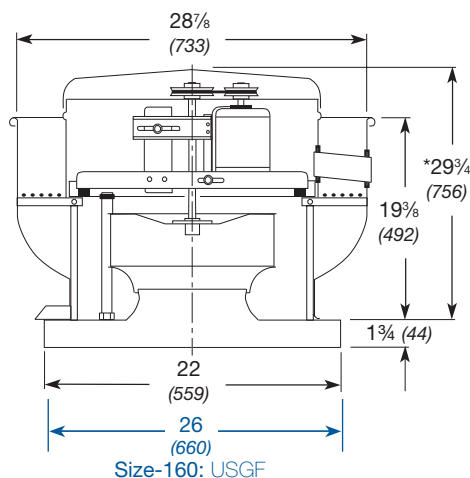
Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg										
				0.5	0.75	1	1.25	1.5	1.75	2	2.25	2.5	2.75	
141HP-4	1/4	895	CFM	331				MAXIMUM BHP AT A GIVEN RPM = (RPM/2285) ³ MAXIMUM RPM = 2110 TIP SPEED (ft/min) = RPM x 3.829 MAXIMUM MOTOR FRAME SIZE = 145T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/1.72						
			BHP	0.06										
			Sones	6.1										
		1037	CFM	566										
			BHP	0.10										
			Sones	6.7										
		1179	CFM	733	563									
			BHP	0.13	0.14									
			Sones	8.9	9.2									
		1321	CFM	878	756	591								
			BHP	0.18	0.19	0.19								
			Sones	12.1	11.6	13.6								
1465	CFM	1016	920	798	642									
	BHP	0.24	0.26	0.26	0.26									
	Sones	14.2	13.5	13.2	15.5									
141HP-3	1/3	1605	CFM	1146	1063	965	846	704						
			BHP	0.31	0.33	0.34	0.34	0.34						
			Sones	15.2	14.4	14.2	14.0	15.2						
141HP-5	1/2	1725	CFM	1256	1178	1098	999	879	747					
			BHP	0.38	0.40	0.42	0.43	0.43	0.42					
			Sones	16.1	15.4	15.0	14.9	14.7	15.7					
		1845	CFM	1363	1292	1219	1137	1042	924	800				
			BHP	0.46	0.48	0.50	0.52	0.52	0.52	0.51				
			Sones	17.0	16.6	16.2	16.0	15.9	15.6	16.1				
141HP-7	3/4	1960	CFM	1463	1399	1330	1260	1176	1086	970	854			
			BHP	0.54	0.57	0.59	0.61	0.62	0.63	0.62	0.62			
			Sones	18.1	17.7	17.4	17.2	17.1	17.0	16.8	16.9			
		2035	CFM	1528	1468	1402	1335	1261	1175	1077	965	826		
			BHP	0.60	0.63	0.66	0.68	0.69	0.70	0.70	0.69	0.67		
			Sones	18.9	18.5	18.2	18.0	18.0	17.8	17.7	17.5	17.8		
		2110	CFM	1592	1536	1473	1409	1341	1262	1178	1073	965	804	
			BHP	0.67	0.70	0.72	0.75	0.77	0.78	0.78	0.78	0.77	0.73	
			Sones	19.8	19.3	19.1	19.0	18.9	18.8	18.6	18.5	18.3	20	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-160: USGF only

Size-161: CUBE • S-CUBE



CUBE • S-CUBE

Damper Size = 16 x 16 (406 x 406)
Roof Opening = 18½ x 18½ (470 x 470)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 87 lb (39 kg)

USGF

Roof Opening = 18½ x 18½ (470 x 470)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 131 lb (59 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see page 82-87.

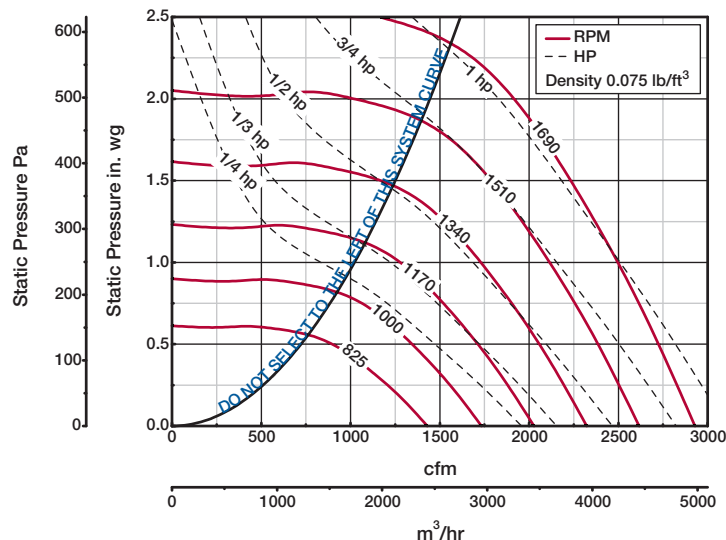
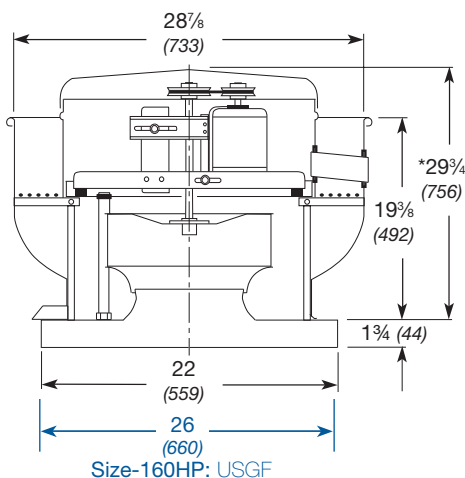
Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg										
				0	0.125	0.25	0.375	0.5	0.625	0.75	1	1.25	1.5	
161-4	1/4	730	CFM	2098	1905	1669	1389	MAXIMUM BHP AT A GIVEN RPM = (RPM/1365) ³ MAXIMUM RPM = 1390 TIP SPEED (ft/min) = RPM x 4.352 MAXIMUM MOTOR FRAME SIZE = 145T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/1.72						
			BHP	0.13	0.15	0.15	0.15							
			Sones	8.1	8.0	7.8	7.8							
		778	CFM	2236	2058	1843	1596							
			BHP	0.16	0.18	0.19	0.18							
			Sones	8.9	8.7	8.5	8.4							
		826	CFM	2374	2209	2010	1790	1512						
			BHP	0.20	0.22	0.22	0.22	0.21						
			Sones	9.9	9.6	9.3	9.1	9.0						
		875	CFM	2515	2362	2177	1974	1744	1365					
			BHP	0.23	0.26	0.26	0.26	0.26	0.24					
			Sones	11.0	10.6	10.1	9.9	9.7	9.7					
161-3	1/3	965	CFM	2774	2637	2477	2300	2109	1893	1584				
			BHP	0.31	0.34	0.35	0.35	0.35	0.34	0.33				
			Sones	12.4	12.0	11.5	11.2	10.8	10.6	10.5				
161-5	1/2	1038	CFM	2984	2857	2712	2552	2382	2199	1992				
			BHP	0.39	0.42	0.43	0.44	0.44	0.43	0.43				
			Sones	13.7	13.3	12.8	12.4	12.1	11.8	11.6				
		1110	CFM	3191	3072	2941	2796	2641	2475	2297	1770			
			BHP	0.47	0.51	0.53	0.53	0.54	0.53	0.52	0.49			
			Sones	15.0	14.6	14.2	13.8	13.5	13.1	12.9	12.2			
161-7	3/4	1188	CFM	3415	3304	3186	3053	2911	2764	2606	2246			
			BHP	0.58	0.62	0.64	0.65	0.65	0.66	0.65	0.64			
			Sones	16.7	16.3	15.8	15.4	15.0	14.7	14.5	14.0			
		1265	CFM	3636	3532	3426	3301	3172	3036	2894	2583	2163		
			BHP	0.70	0.74	0.77	0.78	0.79	0.79	0.79	0.78	0.75		
			Sones	18.5	18.1	17.7	17.2	16.8	16.5	16.3	15.8	15.2		
161-10	1	1328	CFM	3817	3718	3619	3502	3383	3253	3124	2843	2510		
			BHP	0.81	0.85	0.89	0.90	0.91	0.91	0.92	0.90	0.89		
			Sones	20	19.6	19.2	18.7	18.3	18.0	17.8	17.4	16.9		
		1390	CFM	3996	3901	3806	3698	3584	3464	3340	3078	2785	2394	
			BHP	0.93	0.97	1.01	1.03	1.04	1.04	1.05	1.04	1.03	1.00	
			Sones	22	21	21	20	19.9	19.6	19.4	19.0	18.6	18.0	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-160HP: USGF only

Size-161HP: CUBE • S-CUBE



CUBE • S-CUBE

Damper Size = 16 x 16 (406 x 406)
Roof Opening = 18½ x 18½ (470 x 470)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 87 lb (39 kg)

USGF

Roof Opening = 18½ x 18½ (470 x 470)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 131 lb (59 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

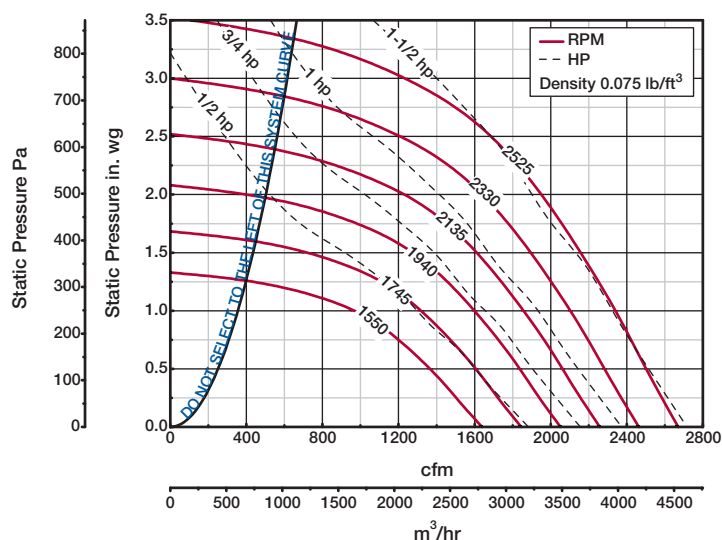
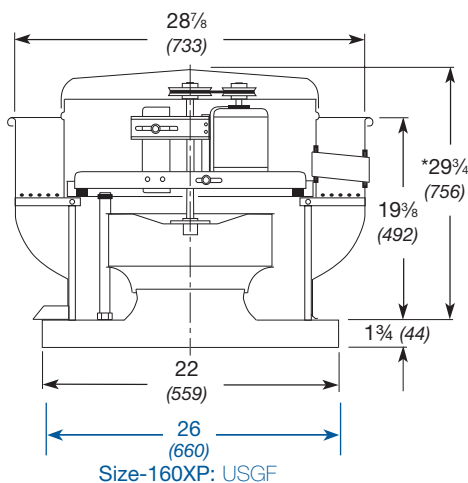
Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg										
				0.5	0.625	0.75	0.875	1	1.25	1.5	1.75	2	2.25	
161HP-4	1/4	825	CFM	889				MAXIMUM BHP AT A GIVEN RPM = (RPM/1660) ³ MAXIMUM RPM = 1690 TIP SPEED (ft/min) = RPM x 4.352 MAXIMUM MOTOR FRAME SIZE = 145T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/1.72						
			BHP	0.12										
			Sones	7.0										
		910	CFM	1129	956									
			BHP	0.16	0.16									
			Sones	8.3	7.8									
		995	CFM	1331	1208	1042								
			BHP	0.21	0.21	0.21								
			Sones	9.6	9.3	8.8								
		1065	CFM	1487	1377	1252	1093							
			BHP	0.25	0.26	0.26	0.26							
			Sones	11.0	10.6	10.2	9.8							
161HP-3	1/3	1165	CFM	1697	1608	1504	1395	1252						
			BHP	0.32	0.33	0.34	0.34	0.34						
			Sones	12.8	12.7	12.2	11.7	11.3						
161HP-5	1/2	1255	CFM	1882	1799	1715	1617	1519	1218					
			BHP	0.40	0.41	0.42	0.43	0.43	0.42					
			Sones	13.1	12.8	12.5	12.0	11.5	10.6					
		1340	CFM	2053	1975	1897	1816	1724	1513					
			BHP	0.48	0.49	0.50	0.51	0.52	0.52					
			Sones	14.4	13.8	13.3	12.8	12.3	11.3					
161HP-7	3/4	1441	CFM	2253	2180	2108	2036	1961	1790	1577				
			BHP	0.59	0.60	0.61	0.63	0.64	0.65	0.65				
			Sones	16.3	15.8	15.2	14.7	14.3	13.5	12.3				
		1535	CFM	2433	2368	2301	2233	2165	2015	1855	1638			
			BHP	0.70	0.72	0.73	0.74	0.76	0.78	0.79	0.78			
			Sones	18.1	17.7	17.2	16.8	16.4	15.7	14.9	13.5			
161HP-10	1	1610	CFM	2573	2516	2452	2387	2322	2190	2037	1863	1651		
			BHP	0.80	0.82	0.83	0.85	0.86	0.89	0.90	0.91	0.90		
			Sones	19.6	19.2	18.8	18.4	18.1	17.5	16.9	15.8	14.3		
		1690	CFM	2722	2671	2611	2550	2488	2365	2228	2082	1899	1664	
			BHP	0.92	0.94	0.95	0.97	0.98	1.01	1.03	1.05	1.05	1.03	
			Sones	21	21	21	20	20	19.5	19.1	18.6	16.9	15.0	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-160XP: USGF only

Size-161XP: CUBE



CUBE

Damper Size = 16 x 16 (406 x 406)
Roof Opening = 18 1/2 x 18 1/2 (470 x 470)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 87 lb (39 kg)

USGF

Roof Opening = 18 1/2 x 18 1/2 (470 x 470)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 131 lb (59 kg)

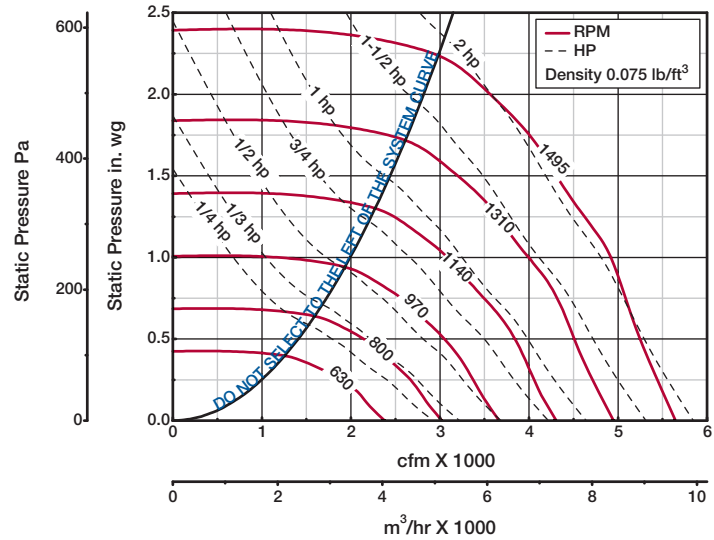
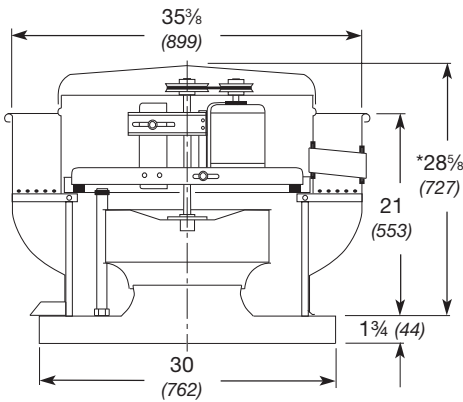
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg										
				1	1.25	1.5	1.75	2	2.25	2.5	2.75	3	3.25	
161XP-5	1/2	1550	CFM	968				MAXIMUM BHP AT A GIVEN RPM = (RPM/2170) ³ MAXIMUM RPM = 2525 TIP SPEED (ft/min) = RPM x 3.534 MAXIMUM MOTOR FRAME SIZE = 145T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/1.72						
			BHP	0.34										
			Sones	10.0										
		1648	CFM	1157	854									
			BHP	0.42	0.39									
			Sones	11.1	10.2									
		1750	CFM	1322	1116	726								
			BHP	0.52	0.49	0.43								
			Sones	12.1	11.4	10.9								
161XP-7	3/4	1880	CFM	1515	1359	1139	744							
			BHP	0.65	0.63	0.60	0.52							
			Sones	13.7	13.1	12.3	12.2							
		1942	CFM	1599	1456	1271	984							
			BHP	0.71	0.70	0.68	0.63							
			Sones	14.3	13.9	13.2	12.6							
		2005	CFM	1684	1552	1392	1161	777						
			BHP	0.77	0.78	0.76	0.72	0.63						
			Sones	15.0	14.7	14.1	13.4	13.6						
161XP-10	1	2138	CFM	1861	1743	1611	1451	1226	869					
			BHP	0.93	0.95	0.94	0.91	0.87	0.78					
			Sones	16.6	16.4	15.9	15.4	14.8	15.1					
		2205	CFM	1946	1834	1713	1578	1395	1127	634				
			BHP	1.01	1.03	1.04	1.01	0.99	0.92	0.73				
			Sones	17.5	17.3	17.0	16.4	15.9	15.5	16.7				
161XP-15	1½	2310	CFM	2076	1974	1865	1741	1597	1415	1134	644			
			BHP	1.17	1.18	1.20	1.18	1.16	1.12	1.04	0.83			
			Sones	19.0	18.7	18.5	18.1	17.5	17.1	16.8	18.4			
		2432	CFM	2226	2134	2031	1926	1804	1660	1483	1225	826		
			BHP	1.36	1.36	1.38	1.40	1.38	1.35	1.31	1.23	1.07		
			Sones	21	20	20	20	19.6	19.1	18.7	18.7	19.9		
		2525	CFM	2339	2250	2155	2056	1946	1828	1676	1487	1221	810	
			BHP	1.52	1.52	1.54	1.56	1.56	1.53	1.50	1.45	1.35	1.16	
			Sones	22	22	22	22	21	21	20	20	20	22	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-180: CUBE • USGF



CUBE

Damper Size = 18 x 18 (457 x 457)
Roof Opening = 20½ x 20½ (521 x 521)
Windband Thickness = 0.064 (1.6)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 126 lb (57 kg)

USGF

Roof Opening = 20½ x 20½ (521 x 521)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 190 lb (86 kg)

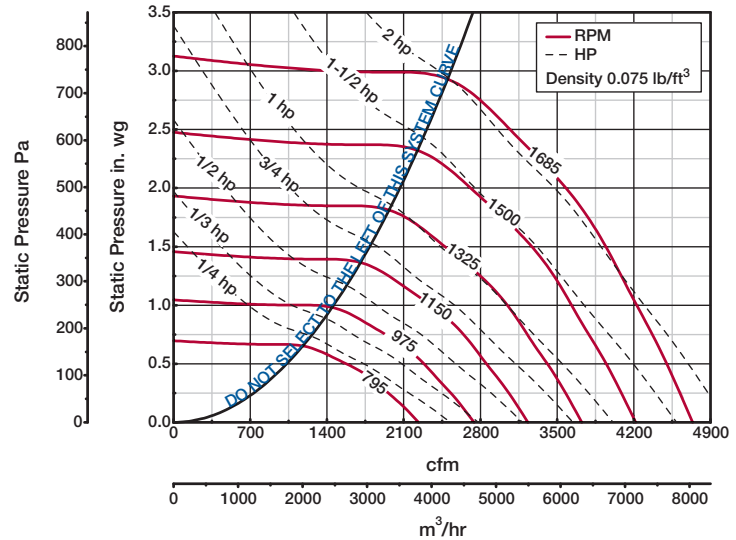
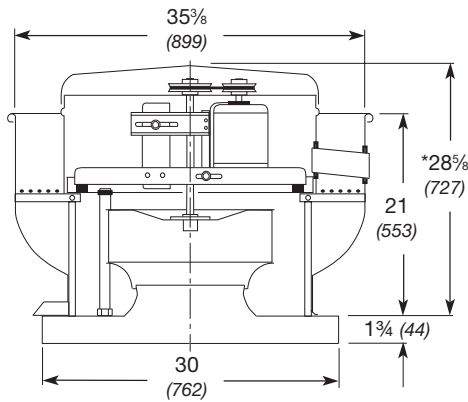
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg																
				0	0.125	0.25	0.5	0.75	1	1.25	1.5	1.75	2							
180-4	1/4	630	CFM	2380	2154	1861		MAXIMUM BHP AT A GIVEN RPM = (RPM/1167) ³ MAXIMUM RPM = 1495 TIP SPEED (ft/min) = RPM x 4.843 MAXIMUM MOTOR FRAME SIZE = 184T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/2.92												
			BHP	0.13	0.15	0.16														
			Sones	7.1	6.4	5.5														
		745	CFM	2815	2617	2448	1763													
			BHP	0.22	0.24	0.26	0.25													
			Sones	9.2	8.6	8.1	7.1													
180-3	1/3	820	CFM	3098	2916	2759	2257													
			BHP	0.30	0.32	0.34	0.34													
			Sones	11.2	10.4	10.0	9.0													
180-5	1/2	940	CFM	3551	3389	3243	2879	2363												
			BHP	0.45	0.47	0.49	0.52	0.50												
			Sones	13.8	13.5	13.1	12.4	11.2												
180-7	3/4	1010	CFM	3816	3664	3526	3242	2799	2105											
			BHP	0.56	0.58	0.61	0.65	0.64	0.58											
			Sones	15.4	15.2	14.9	14.7	13.7	11.8											
		1075	CFM	4061	3919	3786	3554	3141	2652											
			BHP	0.67	0.70	0.73	0.78	0.78	0.75											
			Sones	16.5	16.2	15.8	15.5	14.7	13.3											
180-10	1	1185	CFM	4477	4348	4224	4005	3703	3336	2841										
			BHP	0.90	0.93	0.96	1.01	1.04	1.04	0.99										
			Sones	18.5	17.9	17.1	16.5	16.0	15.2	14.4										
180-15	1½	1275	CFM	4817	4697	4578	4369	4163	3799	3437	2930									
			BHP	1.12	1.15	1.19	1.24	1.30	1.30	1.28	1.22									
			Sones	21	20	19.5	18.7	18.2	17.5	16.7	15.9									
		1360	CFM	5138	5026	4913	4710	4532	4232	3912	3537	3023								
			BHP	1.36	1.39	1.43	1.49	1.56	1.58	1.58	1.54	1.46								
			Sones	23	23	22	21	21	20	19.2	18.3	17.3								
180-20	2	1430	CFM	5402	5296	5189	4993	4819	4593	4270	3968	3567	3001							
			BHP	1.58	1.62	1.66	1.72	1.79	1.83	1.83	1.83	1.76	1.66							
			Sones	25	25	25	24	23	22	22	21	19.5	18.2							
		1495	CFM	5648	5546	5443	5254	5082	4921	4598	4313	3983	3564							
			BHP	1.80	1.84	1.89	1.96	2.02	2.10	2.10	2.10	2.06	1.99							
			Sones	28	27	27	26	25	25	24	23	22	21							

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-180HP: CUBE • USGF



CUBE

Damper Size = 18 x 18 (457 x 457)
Roof Opening = 20 1/2 x 20 1/2 (521 x 521)
Windband Thickness = 0.064 (1.6)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 126 lb (57 kg)

USGF

Roof Opening = 20 1/2 x 20 1/2 (521 x 521)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 190 lb (86 kg)

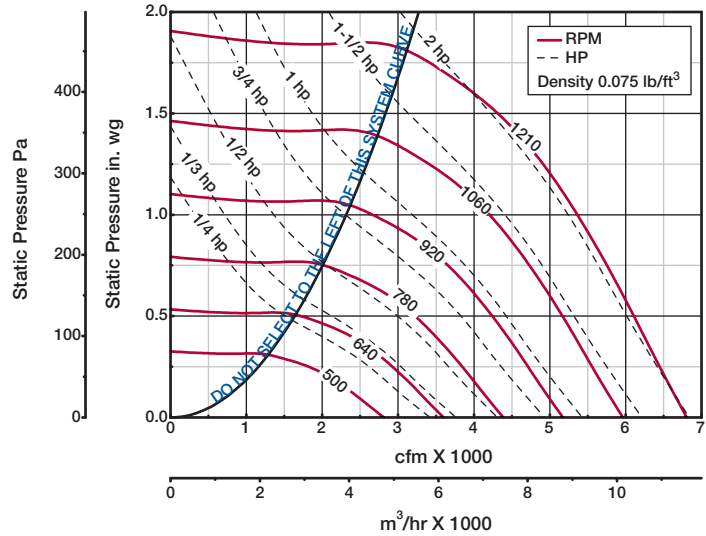
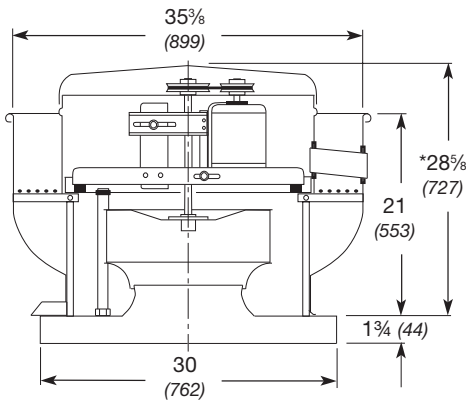
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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	
180HP-4	1/4	795	CFM	1570				MAXIMUM BHP AT A GIVEN RPM = (RPM/1315) ³ MAXIMUM RPM = 1685 TIP SPEED (ft/min) = RPM x 4.843 MAXIMUM MOTOR FRAME SIZE = 184T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/2.92						
			BHP	0.22										
			Sones	8.3										
		845	CFM	1799										
			BHP	0.26										
180HP-3	1/3	925	Sones	9.5										
			CFM	2104	1688									
			BHP	0.34	0.35									
180HP-5	1/2	1065	Sones	10.8	9.8									
			CFM	2581	2323	1933								
			BHP	0.50	0.52	0.53								
180HP-7	3/4	1215	Sones	13.8	12.5	12.4								
			CFM	3063	2868	2626	2286	1854						
			BHP	0.72	0.76	0.78	0.79	0.75						
180HP-10	1	1275	Sones	15.0	14.5	14.0	13.4	12.9						
			CFM	3253	3066	2853	2566	2209						
			BHP	0.82	0.87	0.89	0.91	0.89						
		1335	Sones	16.7	15.8	15.4	14.9	14.3						
			CFM	3441	3261	3075	2839	2523	2156					
			BHP	0.93	0.98	1.02	1.04	1.04	1.04					
180HP-15	1½	1430	Sones	18.7	17.4	17.0	16.6	16.1	15.6					
			CFM	3735	3566	3401	3206	2964	2669	2320				
			BHP	1.13	1.19	1.23	1.26	1.27	1.28	1.24				
		1530	Sones	22	21	19.7	19.3	18.9	18.4	17.9				
			CFM	4005	3853	3696	3538	3338	3089	2807	2479			
			BHP	1.34	1.40	1.46	1.50	1.52	1.53	1.54	1.49			
180HP-20	2	1610	Sones	23	22	21	21	20	19.7	19.1	18.4			
			CFM	4273	4136	3986	3840	3674	3485	3233	2965	2656		
			BHP	1.58	1.64	1.70	1.76	1.79	1.81	1.82	1.82	1.78		
		1685	Sones	25	24	23	23	22	21	21	20	19.2		
			CFM	4495	4369	4226	4085	3945	3768	3575	3325	3061	2766	
			BHP	1.79	1.86	1.93	1.99	2.04	2.07	2.08	2.09	2.08	2.04	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-200: CUBE • S-CUBE • USGF



CUBE • S-CUBE

Damper Size = 18 x 18 (457 x 457)
Roof Opening = 20½ x 20½ (521 x 521)
Windband Thickness = 0.064 (1.6)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 142 lb (64 kg)

USGF

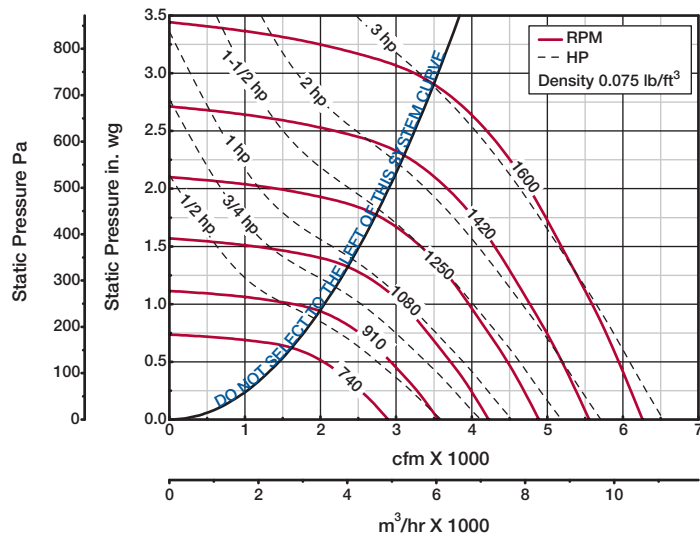
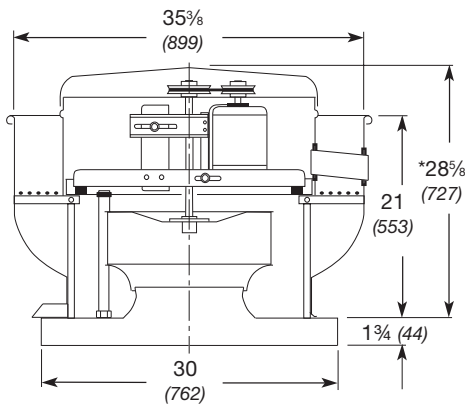
Roof Opening = 20½ x 20½ (521 x 521)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 213 lb (97 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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							
200-4	1/4	500	CFM	2812	2386	1822		MAXIMUM BHP AT A GIVEN RPM = (RPM/946) ³ MAXIMUM RPM = 1210 TIP SPEED (ft/min) = RPM x 5.595 MAXIMUM MOTOR FRAME SIZE = 184T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/2.92												
			BHP	0.14	0.15	0.15														
			Sones	6.2	5.4	4.6														
		605	CFM	3403	3054	2675	2144													
			BHP	0.25	0.26	0.26	0.25													
			Sones	8.1	7.4	6.7	6.1													
200-3	1/3	665	CFM	3740	3422	3096	2699	2073												
			BHP	0.33	0.34	0.35	0.35	0.33												
			Sones	9.4	8.8	8.1	7.5	7.0												
200-5	1/2	760	CFM	4275	3994	3718	3413	3048												
			BHP	0.49	0.51	0.52	0.52	0.51												
			Sones	12.1	11.7	10.9	10.1	9.4												
200-7	3/4	820	CFM	4612	4350	4098	3828	3523	2606											
			BHP	0.61	0.63	0.65	0.65	0.65	0.61											
			Sones	14.1	14.1	13.0	12.2	11.4	10.7											
		875	CFM	4922	4676	4439	4192	3922	3240											
			BHP	0.75	0.77	0.78	0.79	0.79	0.78											
			Sones	16.3	16.3	15.2	14.7	13.5	12.4											
200-10	1	960	CFM	5400	5176	4958	4742	4508	3985	3169										
			BHP	0.98	1.01	1.03	1.04	1.04	1.04	1.00										
			Sones	18.7	18.4	17.7	17.0	16.4	15.0	14.4										
200-15	1½	1030	CFM	5793	5585	5380	5179	4968	4503	3917	2972									
			BHP	1.22	1.24	1.26	1.28	1.29	1.29	1.27	1.18									
			Sones	21	21	20	19.2	18.7	17.5	16.4	16.8									
		1100	CFM	6187	5992	5798	5610	5421	5006	4529	3861									
			BHP	1.48	1.51	1.53	1.55	1.57	1.57	1.57	1.53									
			Sones	23	23	23	22	21	20	19.3	18.6									
200-20	2	1155	CFM	6496	6311	6125	5946	5767	5383	4948	4410	3629								
			BHP	1.72	1.74	1.77	1.79	1.81	1.81	1.81	1.80	1.71								
			Sones	24	24	23	23	22	21	20	19.2	19.9								
		1210	CFM	6806	6628	6451	6279	6108	5748	5350	4892	4289	3365							
			BHP	1.97	2.00	2.03	2.05	2.07	2.09	2.09	2.08	2.04	1.88							
			Sones	25	24	23	23	22	21	21	19.8	19.7	21							

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive Size-200HP: CUBE • USGF



CUBE

Damper Size = 18 x 18 (457 x 457)
Roof Opening = 20½ x 20½ (521 x 521)
Windband Thickness = 0.064 (1.6)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 142 lb (64 kg)

USGF

Roof Opening = 20½ x 20½ (521 x 521)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 213 lb (97 kg)

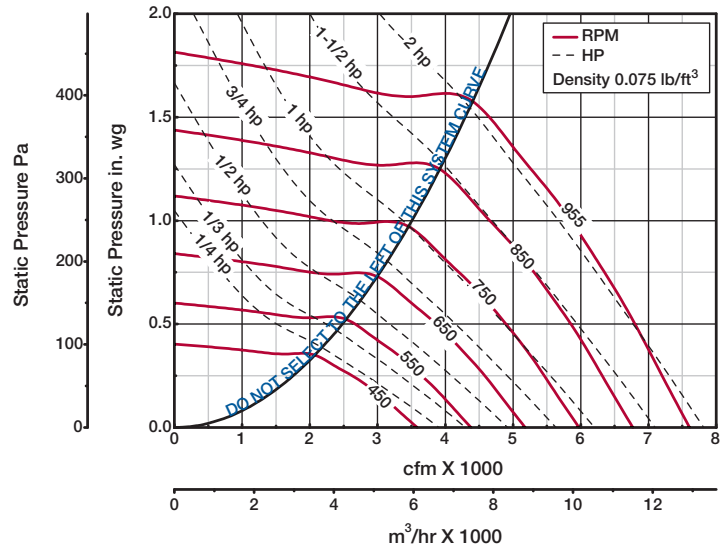
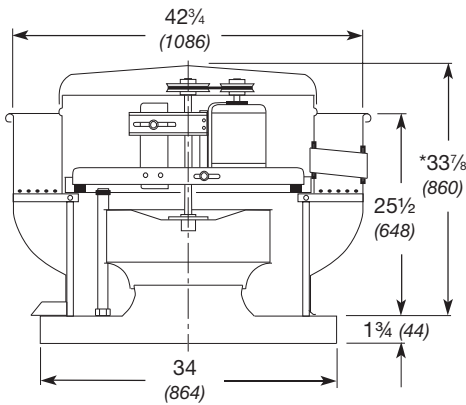
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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						
200HP-5	1/2	740	CFM	2024				<div>MAXIMUM BHP AT A GIVEN RPM = (RPM/1093)³ MAXIMUM RPM = 1600 TIP SPEED (ft/min) = RPM x 5.595 MAXIMUM MOTOR FRAME SIZE = 184T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/2.92</div>											
			BHP	0.31															
			Sones	8.1															
		880	CFM	2779	2317														
			BHP	0.51	0.52														
			Sones	10.5	9.5														
			200HP-7	3/4	945	CFM	3094	2711	2092										
						BHP	0.62	0.64	0.62										
		Sones				12.2	11.5	10.6											
		1010			CFM	3397	3067	2637											
BHP	0.75				0.78	0.79													
			Sones	14.5	13.7	13.2													
			200HP-10	1	1110	CFM	3851	3561	3242	2806									
						BHP	0.98	1.02	1.04	1.04									
		Sones				16.9	16.2	15.7	15.5										
					CFM	4207	3944	3661	3321	2850									
BHP	1.20				1.24	1.27	1.29	1.26											
Sones	19.0				18.1	17.5	17.3	17.5											
					CFM	4558	4312	4055	3789	3433	2944								
					BHP	1.44	1.49	1.53	1.56	1.56	1.53								
		Sones	22		21	20	19.7	19.3	19.8										
					CFM	4837	4606	4369	4116	3826	3482	2946							
					BHP	1.67	1.71	1.76	1.79	1.82	1.82	1.75							
Sones	23				23	22	21	21	21	22									
					CFM	5110	4898	4674	4436	4195	3880	3515							
					BHP	1.91	1.96	2.01	2.05	2.09	2.09	2.08							
		Sones	24		24	24	23	21	22	23									
					CFM	5382	5186	4972	4752	4521	4269	3956	3556						
					BHP	2.18	2.23	2.28	2.33	2.37	2.40	2.40	2.37						
Sones	26				25	25	25	23	23	24	25								
					CFM	5943	5775	5581	5385	5182	4971	4760	4476	4189	3760				
					BHP	2.81	2.88	2.93	2.99	3.03	3.08	3.13	3.13	3.13	3.06				
		Sones	29		28	29	30	29	26	24	26	28	31						

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-220: CUBE



CUBE

Damper Size = 24 x 24 (610 x 610)
Roof Opening = 26 1/2 x 26 1/2 (521 x 521)
Windband Thickness = 0.064 (1.6)
Motor Cover Thickness = 0.051 (1.3)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 174 lb (79 kg)

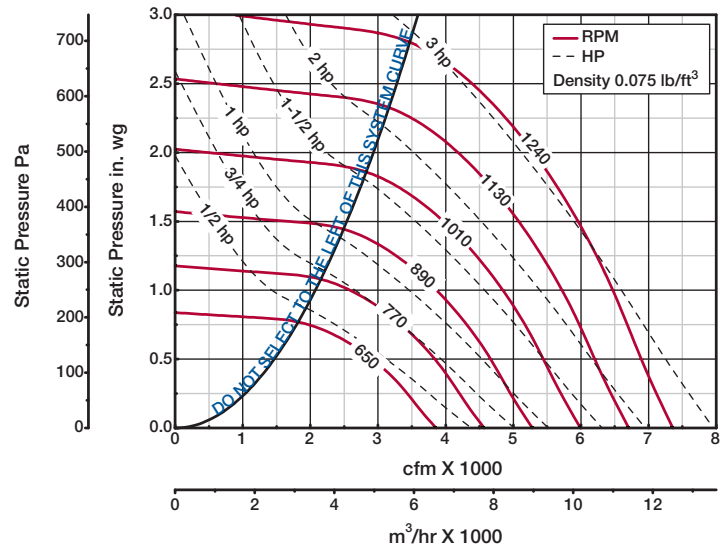
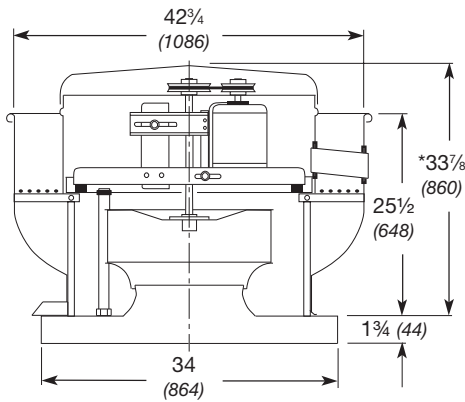
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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		
220-4	1/4	450	CFM	3585	3155	2624		MAXIMUM BHP AT A GIVEN RPM = (RPM/743) ³ MAXIMUM RPM = 955 TIP SPEED (ft/min) = RPM x 6.413 MAXIMUM MOTOR FRAME SIZE = 184T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/3.76							
			BHP	0.19	0.21	0.22									
			Sones	7.3	6.6	6.0									
		475	CFM	3784	3377	2896	2268								
			BHP	0.23	0.25	0.26	0.25								
			Sones	7.9	7.2	6.5	6.1								
220-3	1/3	520	CFM	4142	3771	3357	2845								
			BHP	0.30	0.32	0.34	0.34								
			Sones	9.3	8.4	7.6	7.1								
220-5	1/2	600	CFM	4779	4457	4124	3736	3279							
			BHP	0.46	0.48	0.51	0.52	0.52							
			Sones	12.0	11.0	10.0	9.3	8.8							
220-7	3/4	645	CFM	5138	4838	4539	4194	3811	3346						
			BHP	0.57	0.60	0.63	0.64	0.65	0.64						
			Sones	13.4	12.6	11.8	11.1	10.4	9.9						
		685	CFM	5457	5174	4893	4581	4234	3836	3383					
			BHP	0.68	0.71	0.74	0.76	0.78	0.78	0.77					
			Sones	14.8	14.0	13.4	12.9	12.1	11.6	11.1					
220-10	1	755	CFM	6014	5758	5502	5239	4944	4620	4258					
			BHP	0.91	0.94	0.98	1.01	1.03	1.04	1.04					
			Sones	17.3	16.7	16.3	16.0	15.5	14.8	14.3					
220-15	1½	810	CFM	6452	6213	5975	5737	5470	5185	4883	4156				
			BHP	1.13	1.16	1.20	1.24	1.26	1.28	1.29	1.27				
			Sones	18.7	18.1	17.7	17.3	16.9	16.2	15.6	14.7				
		865	CFM	6890	6667	6443	6220	5987	5729	5453	4835	4111			
			BHP	1.37	1.41	1.45	1.49	1.52	1.54	1.56	1.57	1.53			
			Sones	20	19.9	19.3	18.9	18.5	17.8	17.2	16.3	15.9			
220-20	2	910	CFM	7249	7036	6823	6612	6400	6158	5909	5365	4704			
			BHP	1.60	1.64	1.68	1.72	1.76	1.78	1.81	1.83	1.81			
			Sones	23	22	22	21	21	19.9	19.1	18.0	17.1			
		955	CFM	7607	7405	7202	7000	6799	6580	6347	5844	5261	4602		
			BHP	1.85	1.89	1.93	1.97	2.02	2.05	2.07	2.11	2.11	2.07		
			Sones	25	25	24	24	23	23	22	20	19.0	18.6		

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-220HP: CUBE



CUBE

Damper Size = 24 x 24 (610 x 610)
 Roof Opening = 26 1/2 x 26 1/2 (673 x 673)
 Windband Thickness = 0.064 (1.6)
 Motor Cover Thickness = 0.051 (1.3)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 174 lb (79 kg)

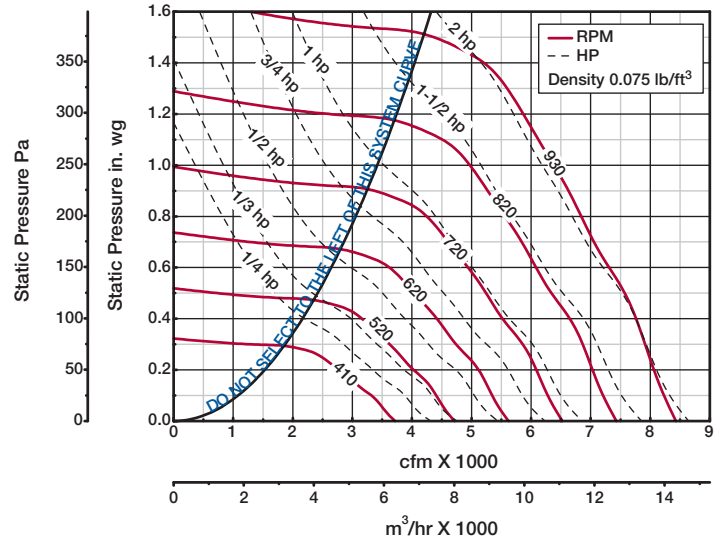
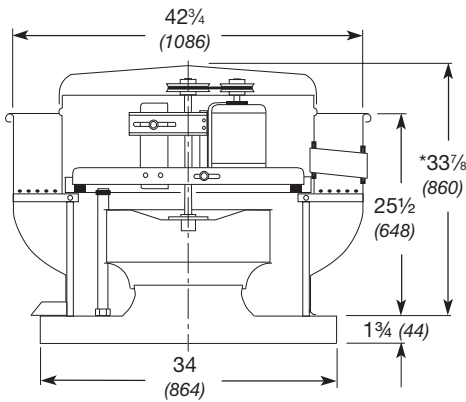
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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							
220HP-5	1/2	650	CFM	2909	1940			MAXIMUM BHP AT A GIVEN RPM = (RPM/847) ³ MAXIMUM RPM = 1240 TIP SPEED (ft/min) = RPM x 6.413 MAXIMUM MOTOR FRAME SIZE = 184T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/3.76												
			BHP	0.45	0.42															
			Sones	8.6	7.5															
		680	CFM	3151	2405															
			BHP	0.51	0.51															
			Sones	9.6	8.6															
220HP-7	3/4	735	CFM	3582	3006															
			BHP	0.63	0.65															
			Sones	11.7	10.8															
		780	CFM	3902	3427	2716														
			BHP	0.74	0.78	0.77														
			Sones	13.2	12.2	11.9														
220HP-10	1	860	CFM	4459	4075	3578	2863													
			BHP	0.96	1.02	1.05	1.01													
			Sones	14.8	14.1	13.7	12.9													
220HP-15	1½	985	CFM	5281	4988	4642	4220	3674	2825											
			BHP	1.39	1.48	1.54	1.57	1.56	1.46											
			Sones	18.8	17.6	17.2	16.9	16.2	14.6											
220HP-20	2	1035	CFM	5602	5335	5033	4659	4209	3630											
			BHP	1.60	1.69	1.77	1.81	1.82	1.79											
			Sones	21	19.5	18.6	18.5	18.1	17.0											
		1085	CFM	5920	5678	5390	5061	4679	4210	3573										
			BHP	1.82	1.92	2.00	2.06	2.10	2.09	2.03										
			Sones	23	21	20	20	19.8	19.3	17.8										
220HP-30	3	1135	CFM	6236	6006	5743	5456	5114	4708	4215	3518									
			BHP	2.06	2.17	2.26	2.34	2.39	2.40	2.38	2.28									
			Sones	24	23	22	21	21	21	20	19.4									
		1188	CFM	6570	6350	6111	5848	5540	5202	4792	4286	3563								
			BHP	2.34	2.46	2.56	2.65	2.71	2.75	2.76	2.72	2.59								
			Sones	25	24	24	23	23	22	22	22	22								
		1240	CFM	6895	6684	6469	6217	5950	5637	5283	4885	4374	3633							
			BHP	2.64	2.76	2.88	2.97	3.05	3.10	3.13	3.13	3.08	2.92							
			Sones	26	25	25	25	25	24	23	24	25	27							

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-240: CUBE • S-CUBE



CUBE • S-CUBE

Damper Size = 18 x 18 (457 x 457)
Roof Opening = 20 1/2 x 20 1/2 (521 x 521)
Windband Thickness = 0.064 (1.6)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 142 lb (64 kg)

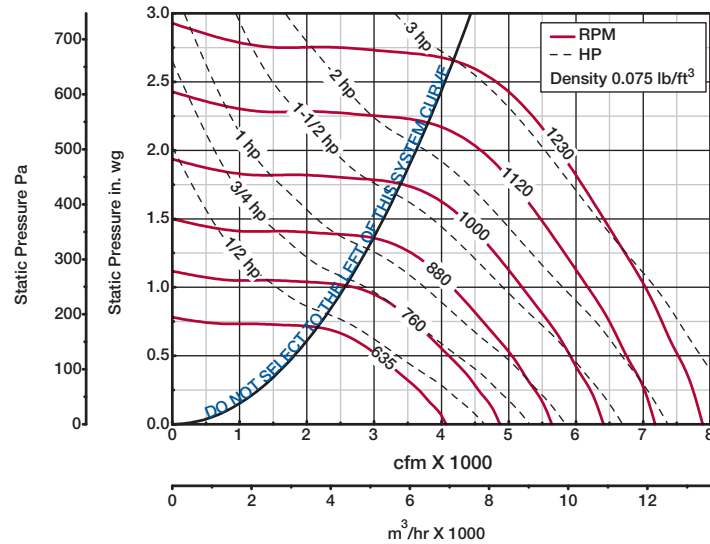
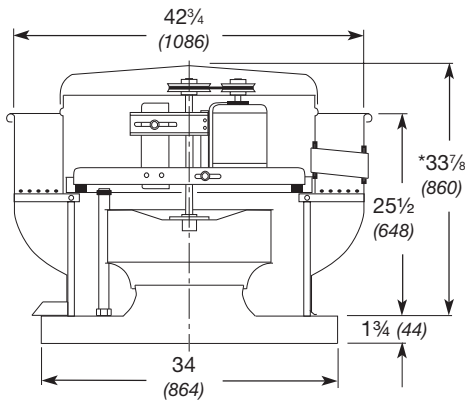
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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							
240-4	1/4	410	CFM	3717	3170	2471		MAXIMUM BHP AT A GIVEN RPM = (RPM/725) ³ MAXIMUM RPM = 930 TIP SPEED (ft/min) = RPM x 6.413 MAXIMUM MOTOR FRAME SIZE = 184T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/3.76												
			BHP	0.16	0.18	0.18														
			Sones	6.4	5.8	5.3														
		465	CFM	4216	3768	3188	2162													
			BHP	0.23	0.25	0.26	0.23													
			Sones	7.6	7.0	6.3	5.9													
240-3	1/3	510	CFM	4623	4243	3717	3134													
			BHP	0.31	0.33	0.34	0.34													
			Sones	8.9	8.1	7.3	6.9													
240-5	1/2	585	CFM	5303	4961	4540	4093	3565												
			BHP	0.46	0.49	0.51	0.52	0.51												
			Sones	11.5	10.5	9.5	8.8	8.4												
240-7	3/4	628	CFM	5693	5368	5010	4590	4141	3600											
			BHP	0.57	0.61	0.63	0.64	0.65	0.63											
			Sones	12.9	11.9	11.1	10.4	9.8	9.4											
		670	CFM	6074	5763	5461	5052	4659	4202	3524										
			BHP	0.69	0.74	0.76	0.78	0.79	0.78	0.73										
			Sones	14.3	13.4	12.8	12.2	11.5	11.0	10.6										
240-10	1	735	CFM	6663	6370	6133	5764	5409	5037	4618										
			BHP	0.92	0.97	0.99	1.01	1.03	1.04	1.03										
			Sones	16.6	15.9	15.5	15.1	14.6	13.9	13.4										
240-15	1½	790	CFM	7162	6883	6661	6361	6011	5693	5332	4453									
			BHP	1.14	1.20	1.22	1.25	1.27	1.28	1.29	1.24									
			Sones	18.2	17.5	17.2	16.8	16.3	15.7	15.0	14.3									
		845	CFM	7660	7400	7184	6947	6615	6304	6002	5282									
			BHP	1.39	1.46	1.49	1.51	1.54	1.56	1.57	1.56									
			Sones	19.6	19.0	18.6	18.2	17.6	17.0	16.4	15.4									
240-20	2	888	CFM	8050	7802	7590	7394	7083	6772	6489	5854	5088								
			BHP	1.62	1.69	1.72	1.75	1.78	1.81	1.82	1.83	1.77								
			Sones	21	21	21	20	19.5	18.7	18.0	17.0	16.4								
		930	CFM	8431	8194	7985	7798	7536	7233	6953	6375	5706	4324							
			BHP	1.86	1.93	1.98	2.00	2.03	2.06	2.08	2.10	2.07	1.83							
			Sones	24	23	23	22	22	21	19.9	18.7	17.8	17.9							

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-240HP: CUBE



CUBE

Damper Size = 24 x 24 (610 x 610)
Roof Opening = 26 1/2 x 26 1/2 (673 x 673)
Windband Thickness = 0.064 (1.6)
Motor Cover Thickness = 0.051 (1.3)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 175 lb (79 kg)

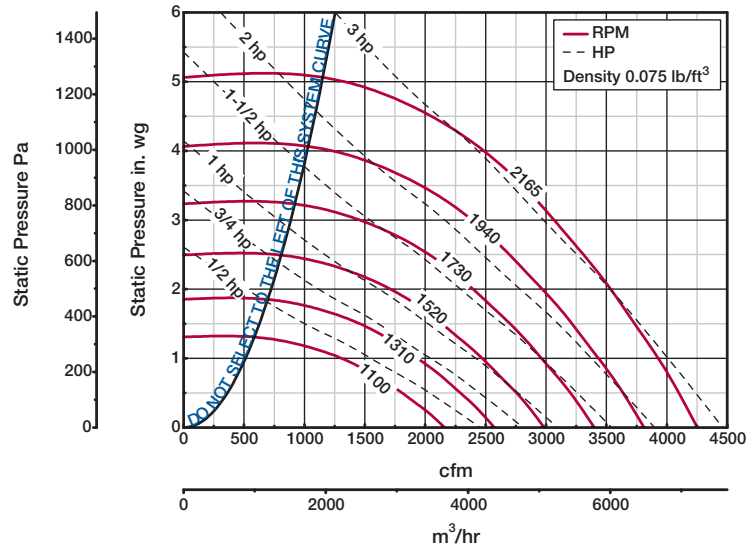
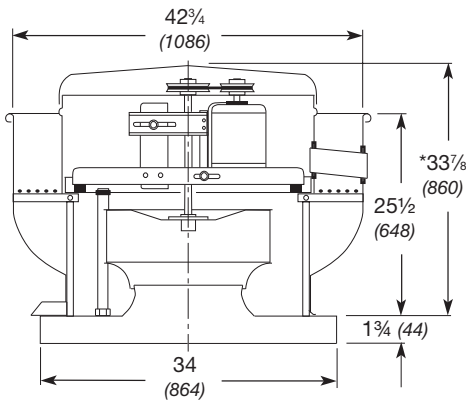
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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							
240HP-5	1/2	635	CFM	3046	2673			MAXIMUM BHP AT A GIVEN RPM = (RPM/837) ³ MAXIMUM RPM = 1230 TIP SPEED (ft/min) = RPM x 6.413 MAXIMUM MOTOR FRAME SIZE = 184T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/3.76												
			BHP	0.43	0.43															
			Sones	8.1	7.4															
		675	CFM	3405	3070	2607														
			BHP	0.51	0.52	0.51														
			Sones	9.4	8.8	8.4														
240HP-7	3/4	725	CFM	3824	3547	3222														
			BHP	0.62	0.64	0.65														
			Sones	11.3	10.7	10.3														
		775	CFM	4233	3979	3704	2940													
			BHP	0.75	0.77	0.78	0.77													
			Sones	13.1	12.5	12.1	11.8													
240HP-10	1	850	CFM	4812	4599	4367	3846	3025												
			BHP	0.96	0.99	1.01	1.04	1.00												
			Sones	14.5	14.0	13.8	13.4	12.6												
240HP-15	1½	913	CFM	5286	5094	4890	4448	3932												
			BHP	1.16	1.20	1.23	1.28	1.29												
			Sones	16.4	15.8	15.4	15.2	14.7												
		975	CFM	5737	5567	5387	4988	4539	4006											
			BHP	1.39	1.43	1.48	1.53	1.56	1.56											
			Sones	18.4	17.9	17.3	16.9	16.6	15.9											
240HP-20	2	1023	CFM	6075	5927	5756	5389	4995	4533	3854										
			BHP	1.59	1.63	1.68	1.75	1.80	1.81	1.77										
			Sones	20	19.6	19.0	18.3	18.1	17.7	16.4										
		1070	CFM	6404	6272	6112	5775	5407	4990	4550	3625									
			BHP	1.80	1.84	1.89	1.98	2.04	2.07	2.08	1.95									
			Sones	22	22	21	19.7	19.7	19.4	18.8	16.6									
240HP-30	3	1150	CFM	6960	6836	6711	6406	6077	5735	5335	4925	4212								
			BHP	2.21	2.26	2.30	2.40	2.48	2.55	2.57	2.58	2.49								
			Sones	24	24	23	22	22	22	21	21	20								
		1230	CFM	7513	7395	7280	7016	6730	6410	6090	5709	5326	4722							
			BHP	2.68	2.73	2.77	2.88	2.98	3.05	3.13	3.14	3.16	3.09							
			Sones	26	25	25	25	25	24	24	23	23	25							

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-240XP: CUBE



CUBE

Damper Size = 24 x 24 (610 x 610)
Roof Opening = 26 1/2 x 26 1/2 (673 x 673)
Windband Thickness = 0.064 (1.6)
Motor Cover Thickness = 0.051 (1.3)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 175 lb (79 kg)

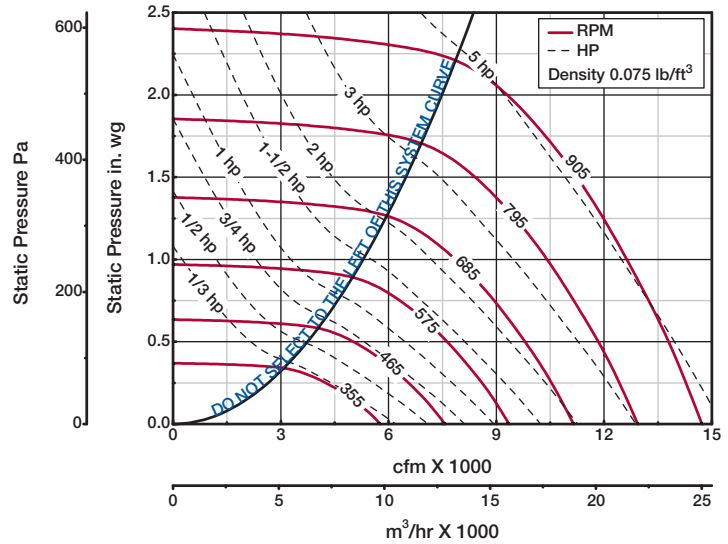
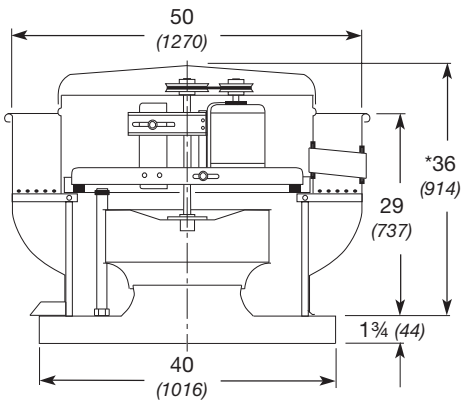
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg															
				1	1.25	1.5	2	2.5	3	3.5	4	4.5	5						
240XP-5	1/2	1100	CFM	1292	789			MAXIMUM BHP AT A GIVEN RPM = (RPM/1478) ³ MAXIMUM RPM = 2165 TIP SPEED (ft/min) = RPM x 4.778 MAXIMUM MOTOR FRAME SIZE = 184T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/3.76											
			BHP	0.40	0.34														
			Sones	10.9	11.9														
		1195	CFM	1613	1321	792													
			BHP	0.53	0.51	0.43													
			Sones	11.6	12.1	13.4													
240XP-7	3/4	1365	CFM	2079	1886	1645													
			BHP	0.77	0.78	0.77													
			Sones	13.6	13.4	13.7													
240XP-10	1	1421	CFM	2223	2042	1837	1209												
			BHP	0.86	0.88	0.88	0.79												
			Sones	14.4	14.2	14.2	15.3												
		1500	CFM	2424	2256	2079	1630												
			BHP	1.00	1.03	1.04	1.01												
			Sones	15.9	15.3	15.1	15.5												
240XP-15	1½	1635	CFM	2743	2604	2450	2101	1631											
			BHP	1.28	1.31	1.33	1.34	1.28											
			Sones	18.6	18.0	17.5	17.0	17.7											
		1720	CFM	2939	2815	2671	2366	1975	1336										
			BHP	1.48	1.51	1.53	1.57	1.53	1.35										
			Sones	21	19.8	19.2	18.4	18.4	20										
240XP-20	2	1895	CFM	3333	3222	3109	2847	2566	2202	1706									
			BHP	1.94	1.98	2.01	2.07	2.10	2.05	1.92									
			Sones	24	23	22	21	21	21	22									
240XP-30	3	1956	CFM	3469	3361	3252	3006	2739	2414	2032	1326								
			BHP	2.13	2.16	2.20	2.26	2.30	2.28	2.21	1.89								
			Sones	25	24	23	22	22	21	22	25								
		2030	CFM	3632	3529	3423	3197	2945	2667	2319	1852								
			BHP	2.37	2.40	2.44	2.51	2.56	2.58	2.51	2.38								
			Sones	26	25	25	24	23	23	23	25								
		2165	CFM	3927	3830	3733	3535	3305	3063	2787	2461	2048	1324						
			BHP	2.85	2.89	2.93	3.01	3.07	3.12	3.11	3.05	2.93	2.47						
			Sones	29	28	28	27	26	25	25	25	27	31						

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-300: CUBE • S-CUBE



CUBE • S-CUBE

Damper Size = 30 x 30 (762 x 762)
Roof Opening = 32 1/2 x 32 1/2 (826 x 826)
Windband Thickness = 0.080 (2.0)
Motor Cover Thickness = 0.051 (1.3)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 313 lb (142 kg)

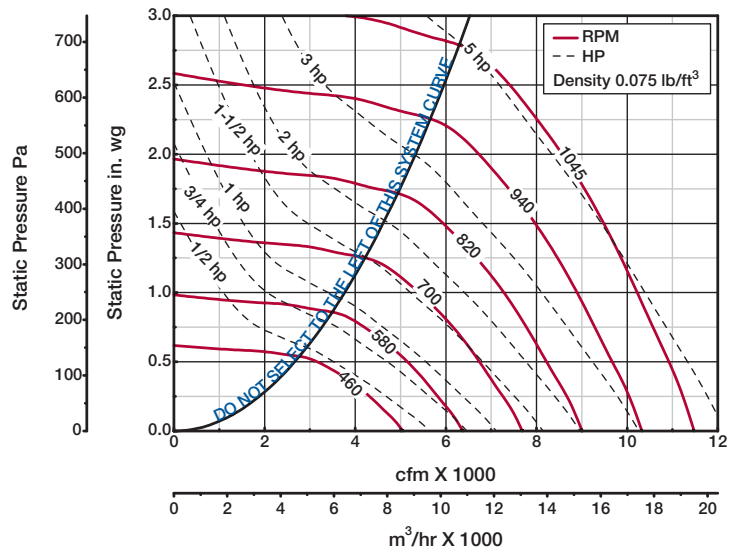
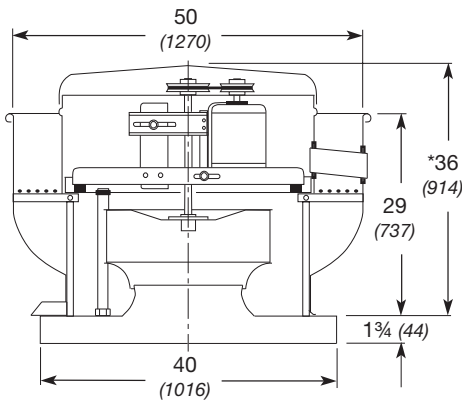
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.125	0.25	0.5	0.75	1	1.25	1.5	1.75	2
300-3	1/3	355	CFM	5777	5132	4227							
			BHP	0.27	0.30	0.31							
			Sones	6.9	6.3	5.3							
		365	CFM	5939	5316	4463							
			BHP	0.29	0.33	0.34							
			Sones	7.2	6.5	5.7							
300-5	1/2	420	CFM	6835	6314	5660							
			BHP	0.45	0.49	0.52							
			Sones	9.0	8.2	7.5							
300-7	3/4	480	CFM	7811	7377	6844	5440						
			BHP	0.67	0.72	0.76	0.77						
			Sones	11.0	10.5	9.9	8.5						
300-10	1	530	CFM	8625	8231	7772	6636						
			BHP	0.90	0.95	1.00	1.05						
			Sones	13.3	12.7	12.2	11.2						
300-15	1 1/2	605	CFM	9845	9501	9127	8226	7084					
			BHP	1.34	1.40	1.46	1.54	1.55					
			Sones	17.0	16.4	15.7	14.8	13.5					
300-20	2	665	CFM	10822	10508	10193	9411	8495	7271				
			BHP	1.77	1.85	1.92	2.02	2.07	2.04				
			Sones	20	19.7	18.6	17.5	16.7	15.1				
300-30	3	765	CFM	12449	12176	11904	11273	10554	9743	8756	7352		
			BHP	2.70	2.78	2.86	3.00	3.09	3.15	3.14	2.98		
			Sones	24	24	23	22	21	20	18.7	17.0		
300-50	5	795	CFM	12937	12675	12413	11818	11145	10404	9479	8302		
			BHP	3.03	3.12	3.20	3.35	3.46	3.53	3.53	3.43		
			Sones	26	25	24	23	22	22	21	18.5		
		850	CFM	13832	13587	13342	12808	12207	11521	10771	9883	8694	
			BHP	3.71	3.80	3.89	4.05	4.19	4.27	4.32	4.31	4.16	
			Sones	29	28	28	26	25	25	24	22	20	
	905	905	CFM	14727	14497	14266	13788	13223	12614	11963	11191	10357	9178
			BHP	4.47	4.57	4.67	4.85	5.00	5.11	5.19	5.21	5.20	5.01
			Sones	32	32	32	29	28	28	27	26	24	22

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-300HP: CUBE



CUBE

Damper Size = 30 x 30 (762 x 762)
Roof Opening = 32 1/2 x 32 1/2 (826 x 826)
Windband Thickness = 0.080 (2.0)
Motor Cover Thickness = 0.051 (1.3)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 313 lb (142 kg)

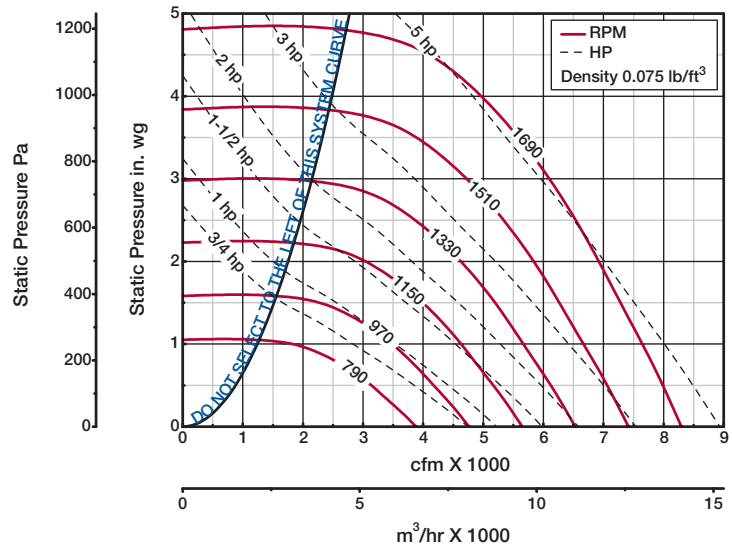
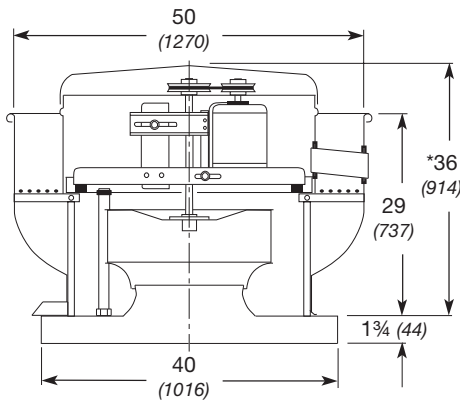
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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						
300HP-5	1/2	460	CFM	3125				MAXIMUM BHP AT A GIVEN RPM = (RPM/602) ³ MAXIMUM RPM = 1045 TIP SPEED (ft/min) = RPM x 7.983 MAXIMUM MOTOR FRAME SIZE = 213T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/5.50											
			BHP	0.44															
			Sones	7.3															
		485	CFM	3639															
			BHP	0.52															
		Sones	7.9																
300HP-7	3/4	555	CFM	4788	3651														
			BHP	0.77	0.76														
			Sones	10.4	9.9														
300HP-10	1	610	CFM	5549	4731														
			BHP	1.00	1.03														
			Sones	12.4	11.3														
300HP-15	1½	700	CFM	6741	6149	5390													
			BHP	1.47	1.53	1.57													
			Sones	16.0	15.2	14.0													
300HP-20	2	770	CFM	7613	7107	6535	5814	4684											
			BHP	1.91	2.00	2.06	2.09	1.99											
			Sones	18.6	18.1	17.4	16.2	16.0											
300HP-30	3	828	CFM	8324	7879	7373	6776	6059											
			BHP	2.34	2.45	2.52	2.57	2.58											
			Sones	21	21	20	19.1	18.3											
		885	CFM	9014	8603	8150	7678	7062	6353										
			BHP	2.83	2.94	3.03	3.12	3.15	3.14										
		Sones	23	23	23	22	21	21											
300HP-50	5	938	CFM	9649	9262	8859	8413	7923	7331	6624									
			BHP	3.34	3.46	3.57	3.66	3.73	3.76	3.73									
			Sones	26	26	26	25	24	23	23									
		991	CFM	10275	9913	9546	9133	8711	8201	7641	6946								
			BHP	3.90	4.03	4.16	4.26	4.35	4.41	4.44	4.39								
			Sones	30	29	29	28	28	27	26	25								
		1045	CFM	10909	10570	10222	9855	9455	9054	8533	8002	7330	6463						
			BHP	4.54	4.68	4.82	4.94	5.04	5.13	5.17	5.21	5.15	4.99						
			Sones	35	34	34	33	32	31	31	30	28	27						

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-300XP: CUBE



CUBE

Damper Size = 30 x 30 (762 x 762)
Roof Opening = 32½ x 32½ (826 x 826)
Windband Thickness = 0.080 (2.0)
Motor Cover Thickness = 0.051 (1.3)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 313 lb (142 kg)

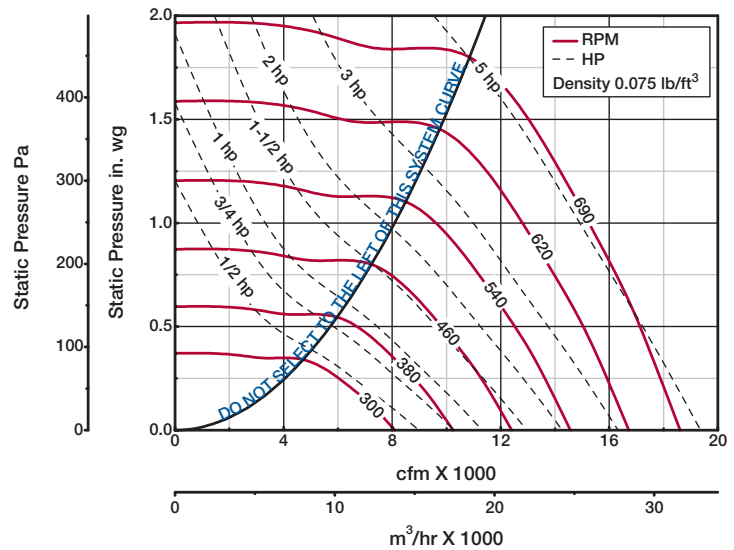
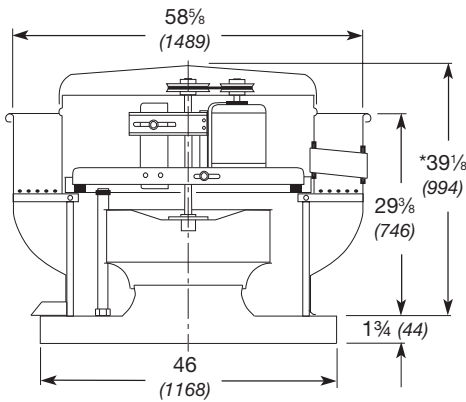
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg										
				1	1.25	1.5	2	2.5	3	3.5	4	4.5	4.75	
300XP-7	3/4	790	CFM	1776				MAXIMUM BHP AT A GIVEN RPM = (RPM/972) ³ MAXIMUM RPM = 1690 TIP SPEED (ft/min) = RPM x 5.825 MAXIMUM MOTOR FRAME SIZE = 213T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/5.50						
			BHP	0.48										
			Sones	9.4										
		900	CFM	2958	2273									
			BHP	0.79	0.75									
			Sones	12.2	11.3									
300XP-10	1	990	CFM	3619	3167	2538								
			BHP	1.04	1.05	1.00								
			Sones	14.6	13.4	12.8								
300XP-15	1½	1060	CFM	4073	3708	3255								
			BHP	1.25	1.28	1.28								
			Sones	16.5	15.3	14.4								
		1130	CFM	4511	4201	3833	2773							
			BHP	1.48	1.53	1.56	1.46							
			Sones	18.9	17.8	16.8	15.6							
300XP-20	2	1245	CFM	5182	4930	4648	3943	2705						
			BHP	1.92	1.99	2.04	2.08	1.86						
			Sones	22	21	20	18.6	17.9						
300XP-30	3	1335	CFM	5695	5465	5220	4648	3905						
			BHP	2.32	2.40	2.47	2.56	2.53						
			Sones	24	24	23	21	19.4						
		1425	CFM	6199	5983	5768	5286	4695	3886					
			BHP	2.78	2.86	2.95	3.07	3.14	3.03					
			Sones	27	26	25	24	22	21					
300XP-50	5	1493	CFM	6574	6369	6164	5722	5200	4550	3646				
			BHP	3.16	3.25	3.34	3.49	3.58	3.57	3.37				
			Sones	29	28	28	26	24	23	22				
		1560	CFM	6941	6746	6549	6143	5684	5134	4441	3049			
			BHP	3.57	3.67	3.76	3.93	4.05	4.12	4.02	3.50			
			Sones	31	30	30	28	27	25	24	24			
		1690	CFM	7643	7464	7284	6920	6528	6091	5587	4951	4100	3070	
			BHP	4.47	4.57	4.68	4.87	5.04	5.16	5.24	5.14	4.88	4.32	
			Sones	36	35	34	33	31	30	29	28	28	28	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-360: CUBE • S-CUBE



CUBE • S-CUBE

Damper Size = 36 x 36 (914 x 914)
Roof Opening = 38 1/2 x 38 1/2 (978 x 978)
Windband Thickness = 0.080 (2.0)
Motor Cover Thickness = 0.064 (1.6)
Curb Cap Thickness = 0.080 (2.0)
^Approximate Unit Weight = 440 lb (200 kg)

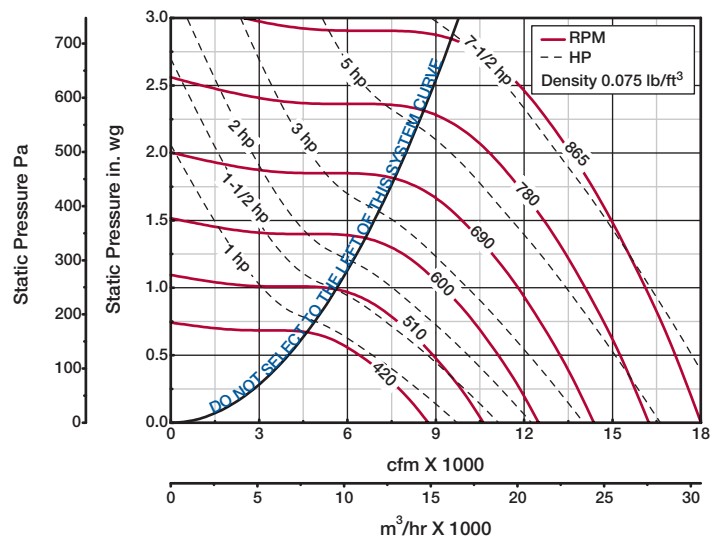
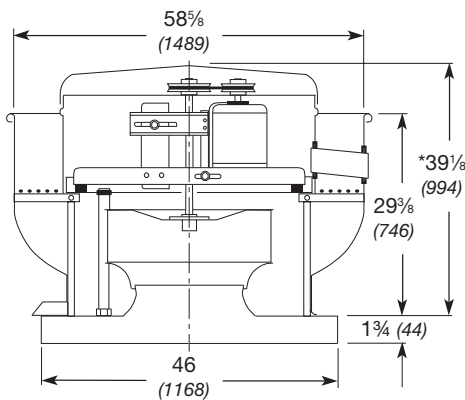
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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		
360-5	1/2	300	CFM	8092	7206	6023		MAXIMUM BHP AT A GIVEN RPM = (RPM/396) ³ MAXIMUM RPM = 690 TIP SPEED (ft/min) = RPM x 9.425 MAXIMUM MOTOR FRAME SIZE = 213T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/7.25							
			BHP	0.37	0.42	0.43									
			Sones	6.9	5.9	5.4									
		320	CFM	8631	7820	6755	5256								
			BHP	0.44	0.50	0.52	0.51								
			Sones	7.7	6.8	6.0	6.6								
360-7	3/4	365	CFM	9845	9142	8299	7286	5767							
			BHP	0.66	0.72	0.77	0.78	0.74							
			Sones	10.2	9.4	8.5	8.0	8.3							
360-10	1	400	CFM	10789	10153	9426	8556	7575							
			BHP	0.87	0.94	0.99	1.02	1.02							
			Sones	12.7	11.9	11.1	10.3	9.9							
360-15	1½	460	CFM	12408	11862	11281	10587	9814	7809						
			BHP	1.32	1.40	1.48	1.53	1.55	1.52						
			Sones	16.8	16.5	15.8	15.1	14.5	13.5						
360-20	2	505	CFM	13621	13125	12602	12022	11359	9878						
			BHP	1.74	1.83	1.92	1.99	2.04	2.06						
			Sones	20	20	19.8	19.0	18.6	17.9						
360-30	3	543	CFM	14646	14184	13705	13209	12606	11302	9606					
			BHP	2.17	2.26	2.36	2.45	2.50	2.56	2.52					
			Sones	22	22	21	21	20	19.3	18.2					
		580	CFM	15644	15212	14769	14306	13783	12597	11287	9381				
			BHP	2.64	2.74	2.84	2.94	3.02	3.10	3.13	3.02				
			Sones	23	23	23	22	22	21	20	18.4				
360-50	5	617	CFM	16642	16236	15826	15391	14942	13862	12684	11227				
			BHP	3.18	3.29	3.40	3.50	3.60	3.71	3.76	3.73				
			Sones	25	25	25	24	24	23	22	21				
		654	CFM	17640	17257	16873	16466	16056	15084	14000	12831	11217			
			BHP	3.78	3.90	4.02	4.13	4.24	4.39	4.46	4.48	4.38			
			Sones	27	27	27	26	26	25	23	22	21			
		690	CFM	18611	18248	17884	17504	17115	16236	15243	14187	12985	11290		
			BHP	4.44	4.57	4.69	4.81	4.93	5.11	5.21	5.26	5.25	5.09		
			Sones	30	29	28	28	28	27	25	24	23	22		

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-360HP: CUBE only



CUBE

Damper Size = 36 x 36 (914 x 914)
 Roof Opening = 38 1/2 x 38 1/2 (978 x 978)
 Windband Thickness = 0.080 (2.0)
 Motor Cover Thickness = 0.064 (1.6)
 Curb Cap Thickness = 0.080 (2.0)
 ^Approximate Unit Weight = 440 lb (200 kg)

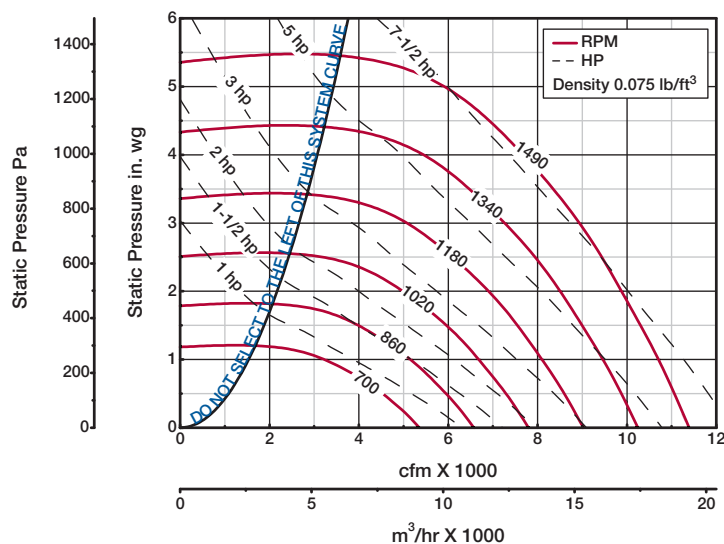
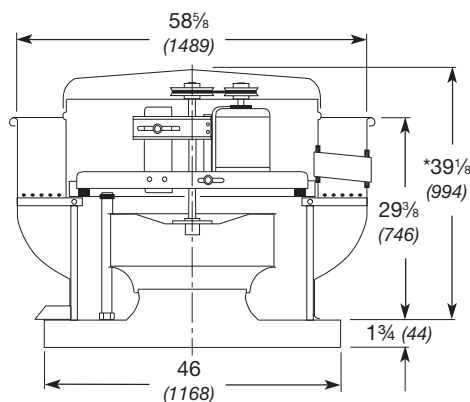
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see page 82-87.

Model Size	Motor HP	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						
360HP-10	1	420	CFM	6407				MAXIMUM BHP AT A GIVEN RPM = (RPM/434) ³ MAXIMUM RPM = 865 TIP SPEED (ft/min) = RPM x 9.425 MAXIMUM MOTOR FRAME SIZE = 213T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/7.25											
			BHP	0.90															
			Sones	9.6															
		440	CFM	7003															
			BHP	1.03															
		Sones	10.8																
360HP-15	1½	505	CFM	8765	7539														
			BHP	1.52	1.57														
			Sones	15.3	14.3														
360HP-20	2	555	CFM	10029	9046	7766													
			BHP	1.97	2.06	2.08													
			Sones	17.2	16.2	15.4													
360HP-30	3	595	CFM	10996	10129	9094	7488												
			BHP	2.40	2.50	2.57	2.49												
			Sones	18.9	17.7	16.8	16.1												
		635	CFM	11934	11157	10276	9171	7329											
			BHP	2.87	3.00	3.09	3.12	2.95											
			Sones	21	19.5	18.2	17.8	17.3											
360HP-50	5	695	CFM	13321	12662	11902	11053	10026	8393										
			BHP	3.70	3.86	3.98	4.07	4.09	3.92										
			Sones	24	23	22	20	20	19.6										
		755	CFM	14688	14086	13434	12734	11922	10973	9593									
			BHP	4.68	4.86	5.01	5.14	5.23	5.24	5.10									
			Sones	28	27	26	25	24	23	22									
360HP-75	7½	781	CFM	15275	14693	14086	13410	12681	11831	10852	9149								
			BHP	5.15	5.34	5.51	5.64	5.75	5.81	5.79	5.51								
			Sones	30	29	28	27	27	26	24	23								
		824	CFM	16232	15689	15137	14511	13869	13127	12290	11354	9683							
			BHP	6.00	6.20	6.40	6.54	6.69	6.78	6.82	6.79	6.48							
			Sones	31	29	27	28	29	28	26	25	24							
		865	CFM	17129	16631	16105	15544	14933	14315	13565	12738	11789	10197						
			BHP	6.89	7.11	7.32	7.50	7.64	7.79	7.87	7.89	7.83	7.50						
			Sones	33	32	30	29	29	29	28	27	25	23						

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-360XP: CUBE only



CUBE

Damper Size = 36 x 36 (914 x 914)
 Roof Opening = 38 1/2 x 38 1/2 (978 x 978)
 Windband Thickness = 0.080 (2.0)
 Motor Cover Thickness = 0.064 (1.6)
 Curb Cap Thickness = 0.080 (2.0)
 ^Approximate Unit Weight = 440 lb (200 kg)

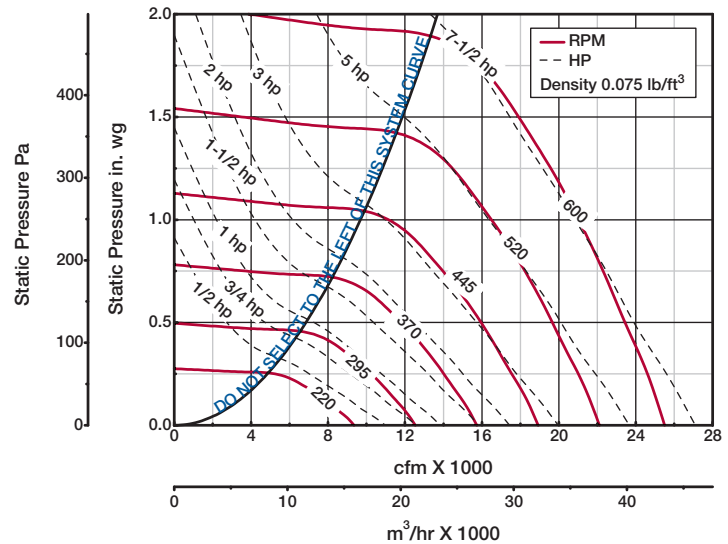
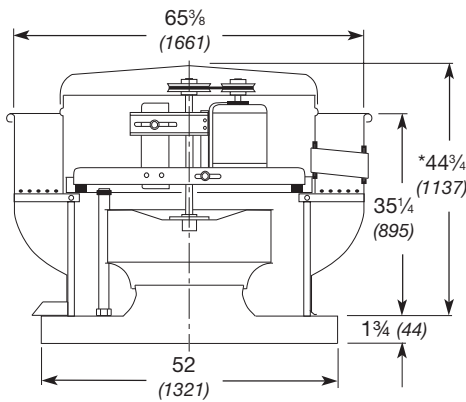
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see page 82-87.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg											
				1	1.25	1.5	2	2.5	3	3.5	4	4.5	5		
360XP-10	1	700	CFM	3210				MAXIMUM BHP AT A GIVEN RPM = (RPM/748) ³ MAXIMUM RPM = 1490 TIP SPEED (ft/min) = RPM x 7.069 MAXIMUM MOTOR FRAME SIZE = 213T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/7.25							
			BHP	0.81											
			Sones	10.5											
		760	CFM	4020	3225										
			BHP	1.05	1.01										
		Sones	11.1	11.1											
360XP-15	1½	870	CFM	5243	4740	4112									
			BHP	1.53	1.57	1.55									
			Sones	13.6	12.7	12.3									
360XP-20	2	955	CFM	6081	5679	5216	3949								
			BHP	1.97	2.04	2.08	1.98								
			Sones	15.4	15.4	14.2	13.0								
360XP-30	3	1025	CFM	6722	6396	6001	5035	3264							
			BHP	2.38	2.47	2.54	2.55	2.18							
			Sones	17.1	16.5	16.2	14.5	13.4							
		1095	CFM	7351	7050	6724	5930	4905							
			BHP	2.85	2.95	3.03	3.13	3.07							
			Sones	19.2	18.4	17.8	16.4	15.4							
360XP-50	5	1163	CFM	7945	7669	7386	6712	5867	4700						
			BHP	3.36	3.47	3.57	3.73	3.75	3.54						
			Sones	21	21	19.9	18.6	17.3	16.5						
		1231	CFM	8528	8278	8011	7422	6711	5824	4551					
			BHP	3.91	4.05	4.15	4.35	4.45	4.40	4.04					
			Sones	23	23	22	21	19.4	18.5	18.0					
		1300	CFM	9113	8881	8635	8125	7502	6764	5867	4286				
			BHP	4.54	4.69	4.82	5.04	5.21	5.24	5.15	4.52				
			Sones	26	25	24	23	22	21	20	20				
360XP-75	7½	1395	CFM	9910	9693	9477	9009	8490	7905	7193	6348	5143			
			BHP	5.50	5.67	5.83	6.08	6.30	6.48	6.48	6.37	5.87			
			Sones	29	28	27	26	25	24	23	23	23			
		1490	CFM	10699	10496	10294	9871	9429	8907	8340	7673	6881	5830		
			BHP	6.61	6.78	6.96	7.27	7.52	7.73	7.89	7.90	7.78	7.34		
			Sones	33	32	31	30	29	27	26	26	26	27		

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-420: CUBE • S-CUBE



CUBE • S-CUBE

Damper Size = 42 x 42 (1067 x 1067)
 Roof Opening = 44 1/2 x 44 1/2 (1130 x 1130)
 Windband Thickness = 0.080 (2.0)
 Motor Cover Thickness = 0.064 (1.6)
 Curb Cap Thickness = 0.100 (2.5)
 ^Approximate Unit Weight = 578 lb (262 kg)

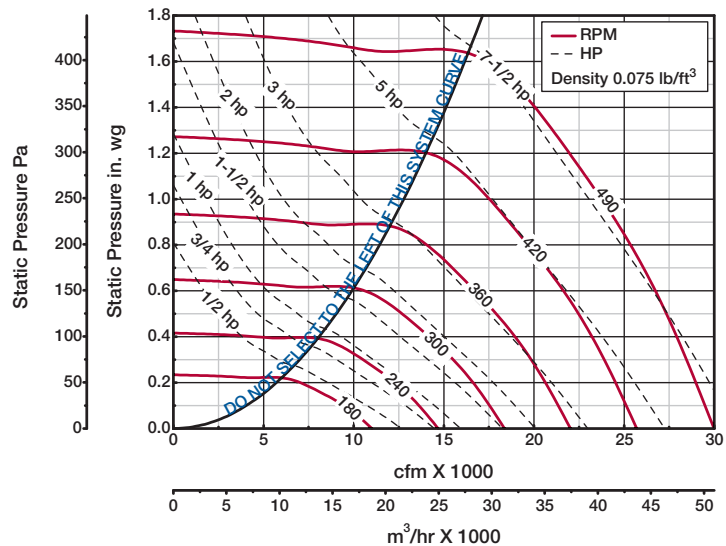
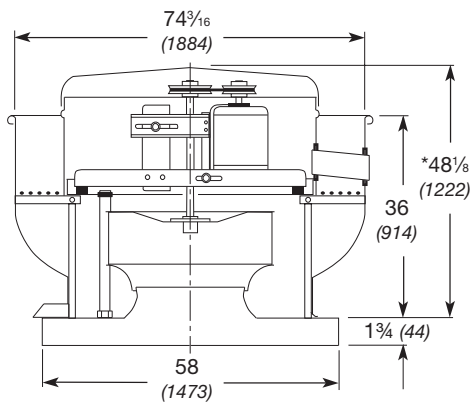
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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	
420-5	1/2	220	CFM	9353	7846	5075		MAXIMUM BHP AT A GIVEN RPM = (RPM/303) ³ MAXIMUM RPM = 600 TIP SPEED (ft/min) = RPM x 11.06 MAXIMUM MOTOR FRAME SIZE = 213T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/8.99						
			BHP	0.31	0.37	0.35								
			Sones	6.5	6.0	5.5								
		245	CFM	10416	9104	7304								
			BHP	0.43	0.50	0.53								
			Sones	7.2	6.7	6.1								
420-7	3/4	280	CFM	11904	10785	9418	7419							
			BHP	0.64	0.73	0.78	0.77							
			Sones	8.3	7.7	7.1	6.6							
420-10	1	305	CFM	12966	11959	10781	9272							
			BHP	0.82	0.94	1.00	1.02							
			Sones	9.4	8.8	8.0	7.3							
420-15	1½	350	CFM	14879	14037	13050	11925	10562						
			BHP	1.24	1.38	1.46	1.52	1.54						
			Sones	11.9	11.2	10.1	9.4	8.6						
420-20	2	385	CFM	16367	15629	14731	13791	12701	9246					
			BHP	1.65	1.81	1.91	1.99	2.05	1.92					
			Sones	14.4	13.5	12.4	11.7	10.7	8.5					
420-30	3	415	CFM	17643	16982	16148	15303	14363	12028					
			BHP	2.07	2.24	2.37	2.45	2.53	2.56					
			Sones	17.2	16.1	14.9	13.8	13.0	10.9					
		440	CFM	18706	18103	17316	16532	15691	13652	10151				
			BHP	2.47	2.65	2.81	2.89	2.98	3.07	2.82				
			Sones	17.7	17.1	16.0	14.7	14.6	12.8	10.6				
420-50	5	525	CFM	22319	21817	21220	20560	19904	18497	16795	14802			
			BHP	4.19	4.41	4.61	4.78	4.88	5.10	5.20	5.16			
			Sones	23	22	22	21	20	19.1	18.1	17.6			
420-75	7½	565	CFM	24020	23553	23030	22417	21806	20544	19112	17437	15398		
			BHP	5.23	5.46	5.68	5.88	6.02	6.25	6.43	6.5	6.38		
			Sones	26	25	25	25	24	23	21	21	21		
		600	CFM	25508	25069	24604	24027	23451	22295	21023	19561	17884	15479	
			BHP	6.26	6.51	6.75	6.96	7.15	7.38	7.63	7.75	7.77	7.47	
			Sones	29	29	29	28	28	27	25	24	24	26	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Belt Drive

Size-480: CUBE • S-CUBE



CUBE • S-CUBE

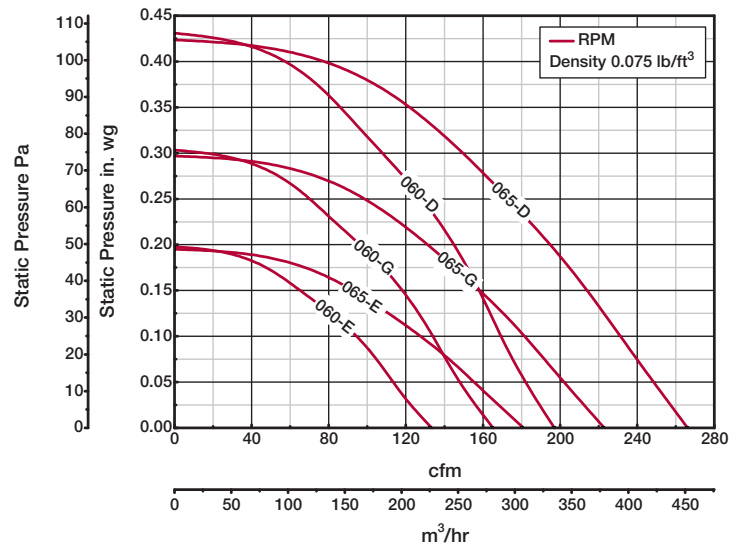
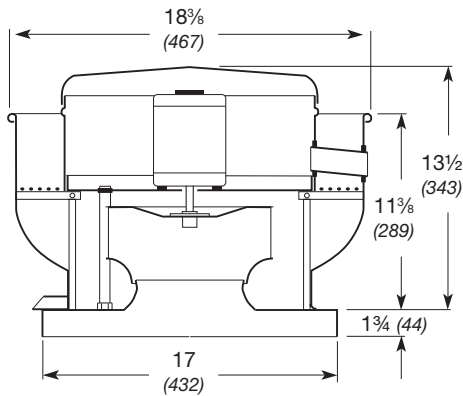
Damper Size = 48 x 48 (1219 x 1219)
Roof Opening = 50 1/2 x 50 1/2 (1283 x 1283)
Windband Thickness = 0.080 (2.0)
Motor Cover Thickness = 0.064 (1.6)
Curb Cap Thickness = 0.100 (2.5)
^Approximate Unit Weight = 675 lb (306 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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
480-5	1/2	180	CFM	11016	8924								
			BHP	0.33	0.39								
			Sones	5.5	4.9								
		200	CFM	12240	10490	7688							
			BHP	0.45	0.53	0.52							
			Sones	6.3	5.8	5.3							
480-7	3/4	225	CFM	13770	12261	10132							
			BHP	0.65	0.73	0.76							
			Sones	7.5	7.0	6.6							
480-10	1	250	CFM	15300	13988	12248	9988						
			BHP	0.88	0.98	1.04	1.03						
			Sones	9.0	8.5	8.2	7.9						
480-15	1 1/2	285	CFM	17442	16332	14991	13240	11154					
			BHP	1.31	1.43	1.52	1.55	1.52					
			Sones	11.1	10.6	10.0	9.6	9.2					
480-20	2	315	CFM	19278	18274	17116	15719	14033	11996				
			BHP	1.77	1.90	2.01	2.08	2.09	2.03				
			Sones	12.9	12.5	11.8	11.3	10.4	10.2				
480-30	3	360	CFM	22032	21153	20222	19142	17848	16410	14749			
			BHP	2.64	2.79	2.93	3.05	3.10	3.12	3.08			
			Sones	16.8	16.5	16.1	15.3	14.7	13.7	12.7			
480-50	5	395	CFM	24174	23373	22572	21605	20621	19343	18035	14722		
			BHP	3.49	3.65	3.81	3.94	4.07	4.11	4.13	3.97		
			Sones	21	20	20	19.2	18.5	17.6	16.6	14.9		
		425	CFM	26010	25266	24521	23679	22764	21766	20556	17922		
			BHP	4.35	4.52	4.69	4.85	4.98	5.09	5.12	5.09		
			Sones	22	21	21	20	19.4	18.7	17.7	15.6		
480-75	7 1/2	460	CFM	28152	27464	26776	26064	25219	24373	23399	21163	18582	
			BHP	5.51	5.70	5.89	6.07	6.22	6.37	6.46	6.52	6.42	
			Sones	25	24	24	23	22	22	21	18.5	18.7	
		490	CFM	29988	29342	28697	28051	27291	26497	25704	23674	21437	18846
			BHP	6.66	6.86	7.06	7.26	7.43	7.59	7.75	7.85	7.84	7.67
			Sones	28	27	27	26	25	25	24	22	20	24

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Direct Drive Sizes-060 and 065: CUE



CUE

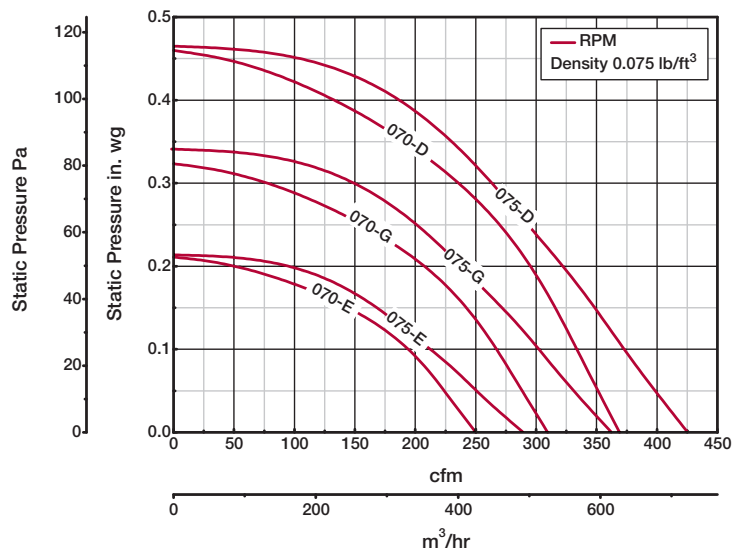
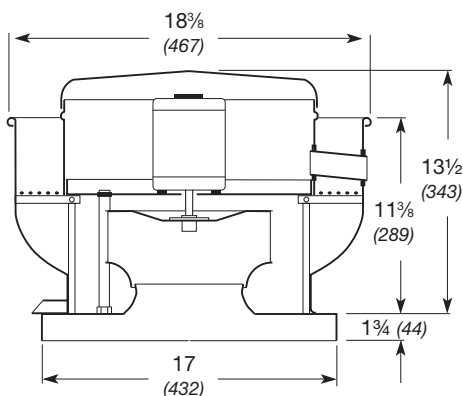
Damper Size = 8 x 8 (203 x 203)
Roof Opening = 10 1/2 x 10 1/2 (267 x 267)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.051 (1.3)
Curb Cap Thickness = 0.051 (1.3)
^Approximate Unit Weight = 29 lb (13 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.05	0.1	0.125	0.15	0.2	0.25	0.3	0.35	0.375
060-E	1/200	1050	CFM	133	113	94	81	65					
			BHP	0.01	0.01	0.01	0.01	0.01					
			Sones	1.7	1.7	1.7	1.7	1.7					
060-G	1/100	1300	CFM	165	148	134	126	117	96	70			
			BHP	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
			Sones	2.8	2.6	2.5	2.5	2.5	2.5	2.5			
060-D	1/60	1550	CFM	197	183	169	164	158	143	128	107	85	
			BHP	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
			Sones	4.2	3.9	3.9	3.9	3.9	4.0	4.0	4.0	4.0	
065-E	1/100	1050	CFM	180	154	126	109	89					
			BHP	0.01	0.01	0.01	0.01	0.01					
			Sones	2.2	2.0	1.9	2.0	2.2					
065-G	1/60	1300	CFM	223	202	181	170	158	129	97			
			BHP	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
			Sones	3.2	3.2	3.1	3.1	3.0	3.0	2.9			
065-D	1/30	1550	CFM	266	249	231	222	214	194	172	145	119	95
			BHP	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			Sones	4.7	4.2	4.2	4.2	4.2	4.1	4.1	4.0	4.0	3.9

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Direct Drive Sizes-070 and 075: CUE



CUE

Damper Size = 8 x 8 (203 x 203)

Roof Opening = 10 1/2 x 10 1/2 (267 x 267)

Windband Thickness = 0.051 (1.3)

Motor Cover Thickness = 0.051 (1.3)

Curb Cap Thickness = 0.051 (1.3)

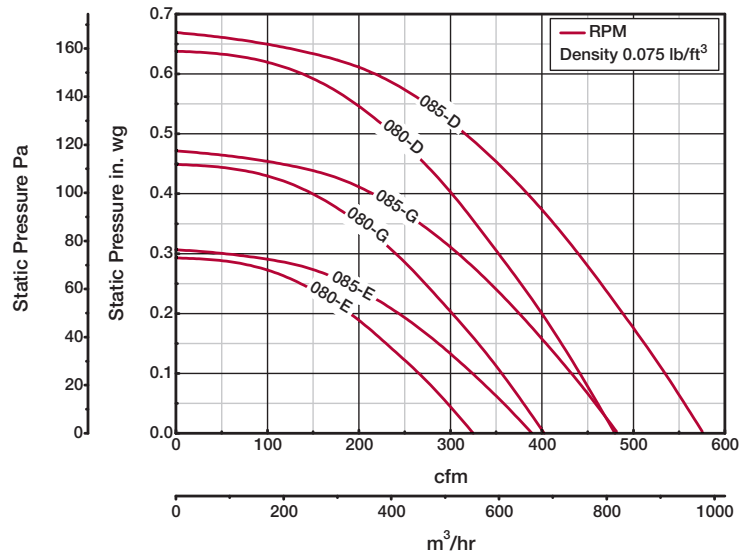
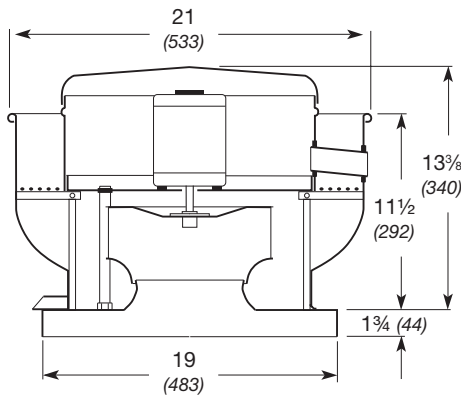
^Approximate Unit Weight = 29 lb (13 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.05	0.1	0.125	0.15	0.2	0.25	0.3	0.35	0.375
070-E	1/100	1050	CFM	250	224	193	171	143					
			BHP	0.01	0.01	0.01	0.01	0.01					
			Sones	2.6	2.1	1.6	1.4	1.2					
070-G	1/60	1300	CFM	309	288	267	255	241	205	152			
			BHP	0.01	0.01	0.02	0.02	0.02	0.02	0.01			
			Sones	4.0	3.7	3.4	3.3	3.1	2.8	2.4			
070-D	1/30	1550	CFM	369	351	333	325	316	293	269	234	187	160
			BHP	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02
			Sones	5.5	5.4	5.2	5.1	5.1	4.9	4.7	4.4	4.1	3.9
075-E	1/80	1050	CFM	287	249	210	188	165					
			BHP	0.01	0.01	0.01	0.01	0.01					
			Sones	3.4	3.0	2.8	2.7	2.6					
075-G	1/50	1300	CFM	356	324	294	279	262	227	185			
			BHP	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
			Sones	4.0	3.8	3.7	3.7	3.7	3.6	3.4			
075-D	1/25	1550	CFM	424	398	372	359	347	320	291	261	225	204
			BHP	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
			Sones	6.0	5.7	5.4	5.3	5.1	5.0	4.9	4.8	4.8	4.8

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Direct Drive Sizes-080 and 085: CUE



CUE

Damper Size = 10 x 10 (254 x 254)
Roof Opening = 12 1/2 x 12 1/2 (318 x 318)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.051 (1.3)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 40 lb (18 kg)

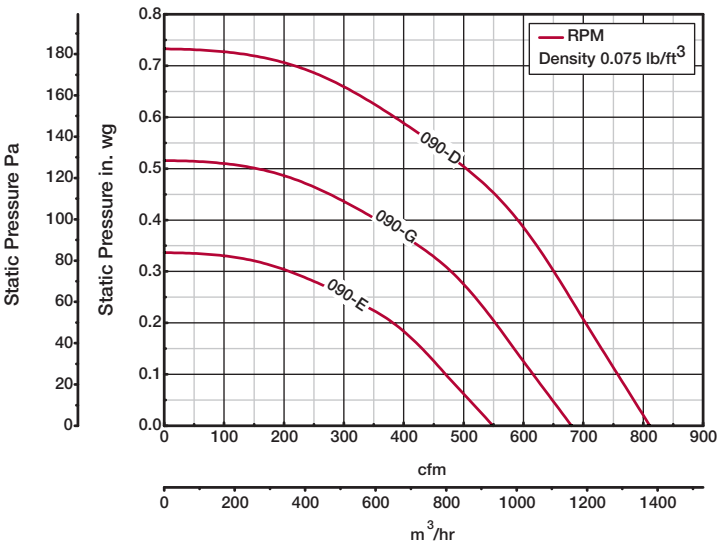
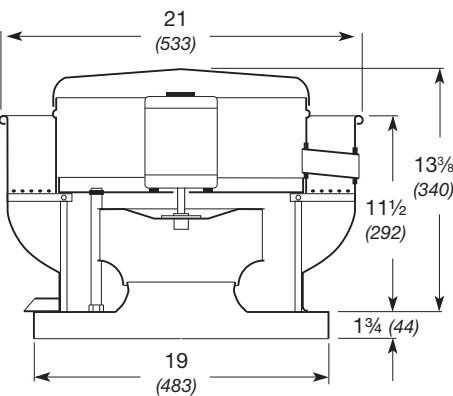
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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
080-E	1/40	1050	CFM	325	265	247	230	189	133				
			BHP	0.01	0.01	0.02	0.02	0.02	0.02				
			Sones	3.8	3.7	3.6	3.7	3.9	4.2				
080-G	1/30	1300	CFM	403	356	343	330	302	272	239	173		
			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		
080-D	1/20	1550	CFM	480	441	431	421	400	376	352	314	235	
			BHP	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	
			Sones	7.3	7.3	7.3	7.3	7.3	7.2	7.3	7.3	7.6	
085-E	1/40	1050	CFM	389	323	305	286	242	182				
			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				
085-G	1/30	1300	CFM	481	430	416	402	373	340	305	235		
			BHP	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04		
			Sones	5.4	5.3	5.3	5.3	5.3	5.3	5.4	5.5		
085-D	1/20	1550	CFM	574	532	520	509	486	461	437	395	312	161
			BHP	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.05
			Sones	7.5	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 do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Direct Drive

Size-090: CUE



CUE

Damper Size = 10 x 10 (254 x 254)
 Roof Opening = 12½ x 12½ (318 x 318)
 Windband Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.051 (1.3)
 Curb Cap Thickness = 0.064 (1.6)
 ^Approximate Unit Weight = 40 lb (18 kg)

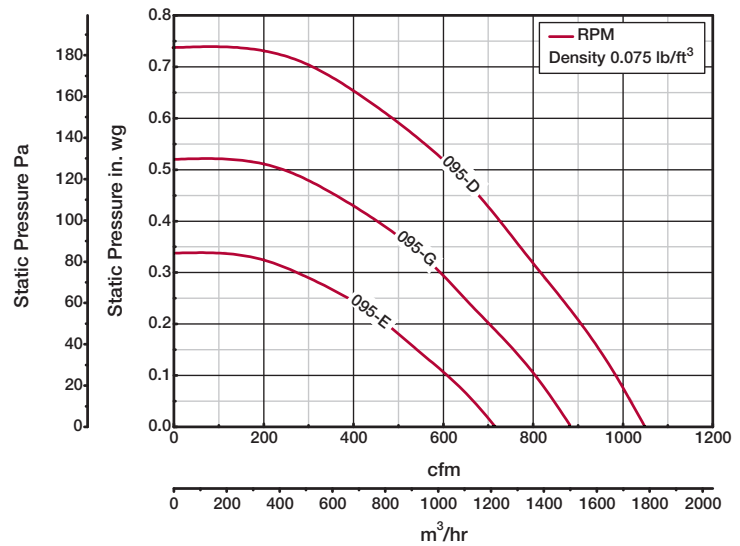
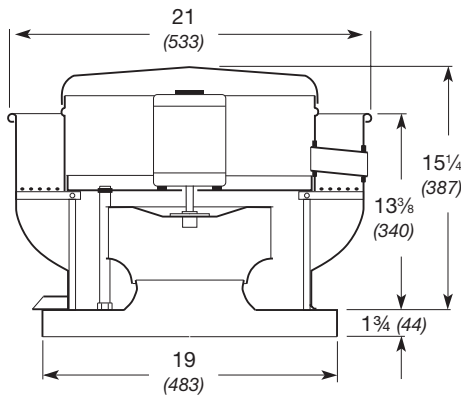
All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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
090-E	1/40	1050	CFM	549	470	451	429	381	306	204			
			BHP	0.02	0.02	0.02	0.03	0.03	0.03	0.03			
			Sones	4.1	3.9	3.9	3.9	4.0	4.2	4.5			
090-G	1/25	1300	CFM	680	616	600	584	553	517	479	391		
			BHP	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05		
			Sones	5.5	5.4	5.4	5.4	5.4	5.4	5.5	5.6		
090-D	1/15	1550	CFM	811	757	744	731	704	677	651	604	501	347
			BHP	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.08
			Sones	7.8	7.6	7.6	7.5	7.5	7.5	7.5	7.4	7.4	7.8

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Direct Drive

Size-095: CUE



CUE

Damper Size = 10 x 10 (254 x 254)

Roof Opening = 12½ x 12½ (318 x 318)

Windband Thickness = 0.051 (1.3)

Motor Cover Thickness = 0.051 (1.3)

Curb Cap Thickness = 0.064 (1.6)

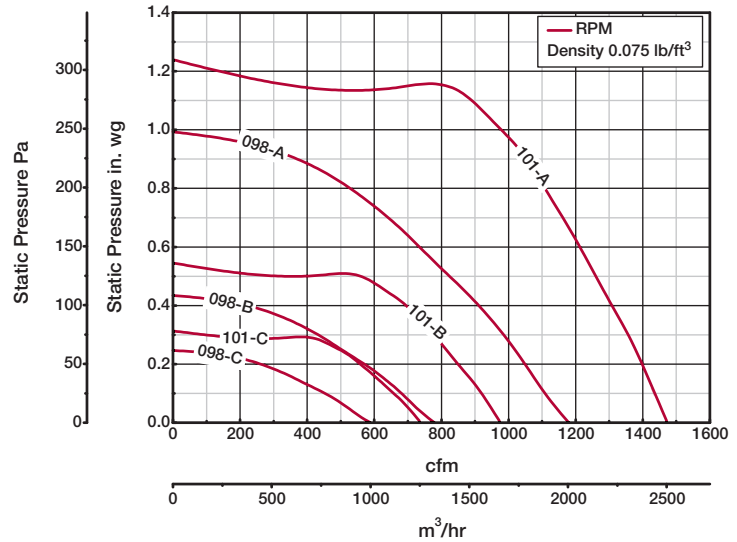
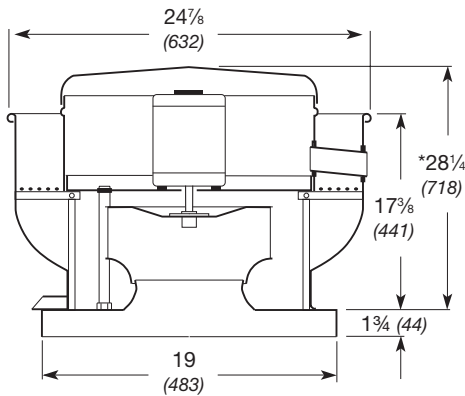
^Approximate Unit Weight = 40 lb (18 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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
095-E	1/30	1050	CFM	711	603	570	536	468	381	265			
			BHP	0.03	0.04	0.04	0.04	0.04	0.04	0.03			
			Sones	5.3	4.5	4.5	4.5	4.4	4.5	4.6			
095-G	1/12	1300	CFM	880	797	774	750	696	641	587	484	199	
			BHP	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.05	
			Sones	7.5	6.8	6.7	6.6	6.5	6.4	6.4	6.4	6.8	
095-D	1/8	1550	CFM	1049	983	964	944	905	861	816	747	616	442
			BHP	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.11
			Sones	9.6	9.3	9.3	9.2	8.8	8.5	8.4	8.3	8.1	7.8

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Direct Drive Size-098 and 101: CUE



CUE

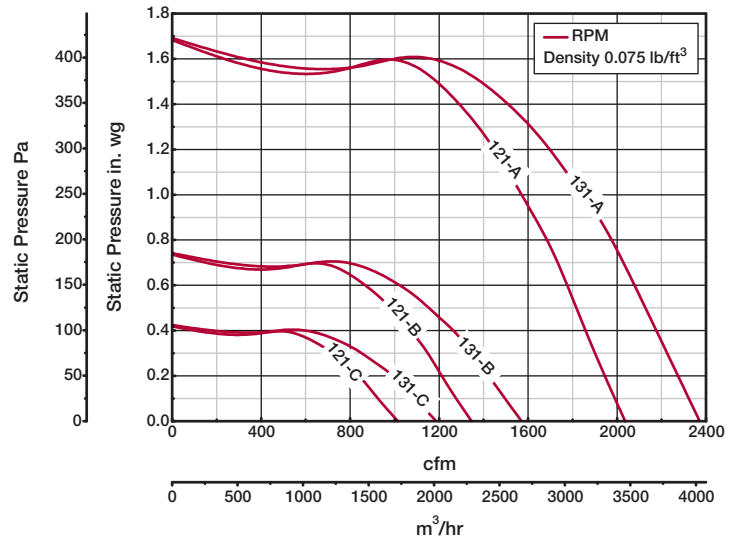
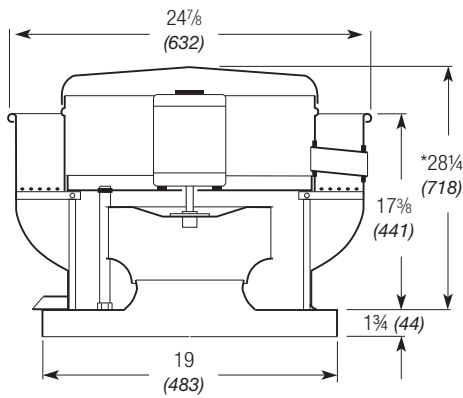
Damper Size = 12 x 12 (305 x 305)
Roof Opening = $14\frac{1}{2}$ x $14\frac{1}{2}$ (368 x 368)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 53 lb (24 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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
098-C	1/8	860	CFM	588	453	409							
			BHP	0.02	0.02	0.02							
			Sones	8.4	8.5	8.7							
098-B	1/6	1140	CFM	780	682	656	502	431	294				
			BHP	0.05	0.05	0.06	0.06	0.06	0.06				
			Sones	9.1	8.7	8.7	8.3	8.1	7.9				
098-A	1/4	1725	CFM	1180	1109	1094	1017	984	929	824	712	586	
			BHP	0.18	0.18	0.18	0.18	0.19	0.20	0.20	0.20	0.20	
			Sones	13.8	13.5	13.4	13.0	12.9	12.7	12.2	12.1	12.3	
101-C	1/8	860	CFM	732	649	625	481						
			BHP	0.03	0.03	0.04	0.04						
			Sones	4.6	8.5	11.7	11.1						
101-B	1/6	1140	CFM	970	913	897	806	768	707				
			BHP	0.07	0.08	0.08	0.08	0.09	0.09				
			Sones	7.2	7.0	7.0	6.5	6.2	6.0				
101-A	1/4	1725	CFM	1468	1431	1422	1373	1350	1315	1255	1195	1129	970
			BHP	0.24	0.25	0.26	0.27	0.27	0.28	0.29	0.29	0.29	0.29
			Sones	13.3	12.9	12.9	12.5	12.3	12.0	11.7	11.3	10.8	9.7

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Direct Drive Sizes-121 and 131: CUE



CUE

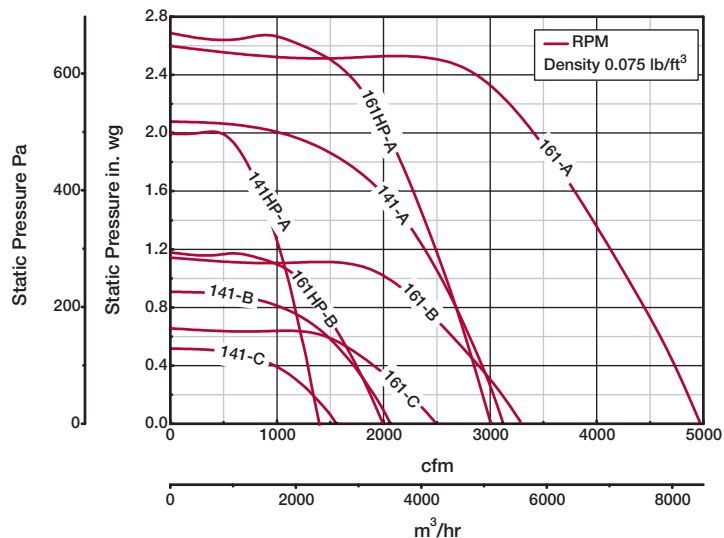
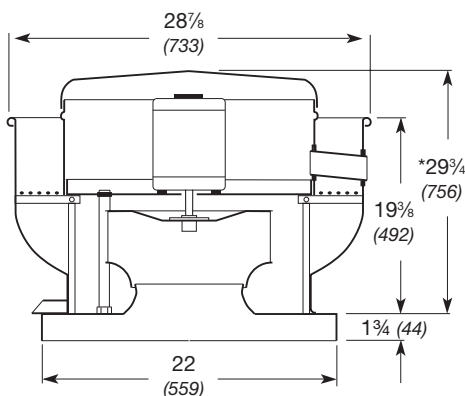
Damper Size = 12 x 12 (305 x 305)
Roof Opening = 14 1/2 x 14 1/2 (368 x 368)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 64 lb (29 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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
121-C	1/8	860	CFM	1015	905	781	581						
			BHP	0.05	0.05	0.06	0.06						
			Sones	5.3	5.7	5.6	5.7						
121-B	1/6	1140	CFM	1346	1261	1180	1091	981	833				
			BHP	0.11	0.12	0.13	0.13	0.14	0.14				
			Sones	7.4	7.9	8.2	8.2	8.0	8.1				
121-A	1/2	1725	CFM	2037	1979	1923	1869	1816	1763	1710	1571	1406	1176
			BHP	0.39	0.40	0.41	0.43	0.44	0.45	0.46	0.47	0.48	0.46
			Sones	15.6	16.1	16.7	17.3	17.9	18.2	18.4	18.7	18.6	18.4
131-C	1/8	860	CFM	1180	1057	914	675						
			BHP	0.06	0.07	0.07	0.07						
			Sones	8.5	8.3	7.7	6.9						
131-B	1/6	1140	CFM	1564	1471	1379	1280	1144	964				
			BHP	0.14	0.15	0.16	0.17	0.17	0.17				
			Sones	12.5	12.2	11.8	11.2	10.3	9.7				
131-A	3/4	1725	CFM	2366	2305	2244	2183	2122	2061	1994	1838	1646	1365
			BHP	0.50	0.51	0.53	0.54	0.56	0.57	0.58	0.60	0.60	0.57
			Sones	18.8	18.6	18.4	18.2	18.0	17.6	17.2	16.4	15.3	14.1

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Direct Drive Sizes-141, 141HP, 161 and 161HP: CUE



CUE

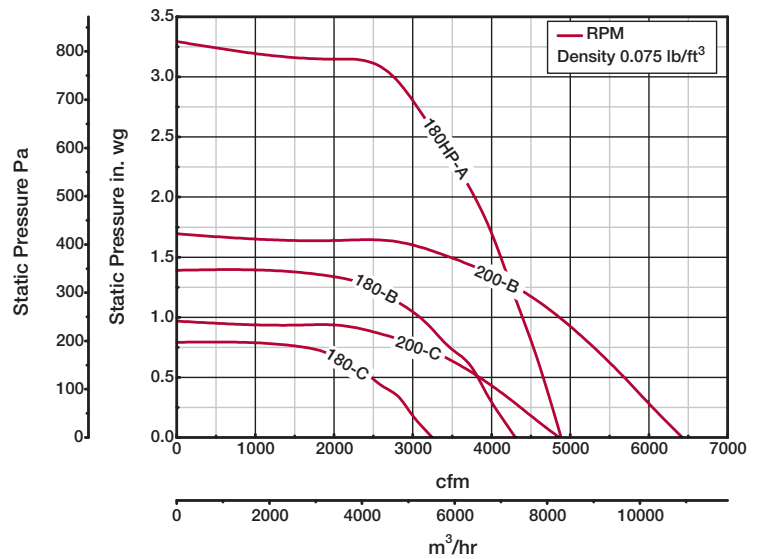
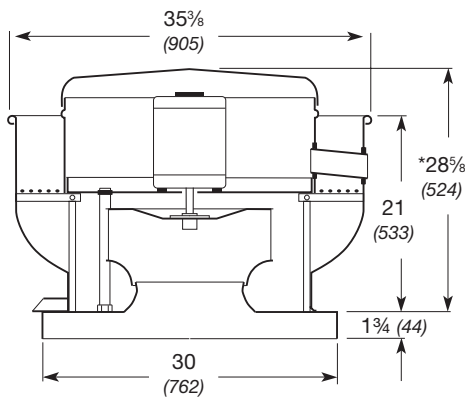
Damper Size = 16 x 16 (406 x 406)
Roof Opening = $18\frac{1}{2}$ x $18\frac{1}{2}$ (470 x 470)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 90 lb (41 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	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
141-C	1/8	860	CFM	1558	1264								
			BHP	0.11	0.12								
			Sones	7.3	7.1								
141-B	1/4	1140	CFM	2065	1864	1605	1167						
			BHP	0.25	0.27	0.29	0.27						
			Sones	11.3	11.0	10.3	10.0						
141-A	1	1725	CFM	3125	3005	2865	2711	2539	2339	2085	1704		
			BHP	0.87	0.90	0.94	0.97	0.99	1.00	0.98	0.91		
			Sones	26	22	24	15.1	13.4	14.3	13.8	13.8		
141HP-A	1/2	1725	CFM	1394	1324	1256	1178	1098	999	879	747		
			BHP	0.34	0.36	0.38	0.40	0.42	0.43	0.43	0.42		
			Sones	16.6	16.3	16.1	15.4	15.0	14.9	14.7	15.7		
161-C	1/4	860	CFM	2472	2126	1680							
			BHP	0.22	0.25	0.24							
			Sones	10.7	9.9	9.5							
161-B	1/2	1140	CFM	3277	3035	2745	2421	1983					
			BHP	0.51	0.57	0.58	0.57	0.55					
			Sones	15.7	14.8	14.1	13.5	13.2					
161-A	2	1725	CFM	4959	4806	4646	4463	4269	4070	3855	3631	3381	3057
			BHP	1.77	1.88	1.97	1.98	2.00	2.01	1.99	1.97	1.96	1.92
			Sones	30	29	28	27	27	27	26	26	25	25
161HP-B	1/3	1140	CFM	1976	1822	1645	1444	1175					
			BHP	0.26	0.28	0.31	0.32	0.32					
			Sones	13.5	12.8	12.5	11.9	11.1					
161HP-A	1½	1725	CFM	2990	2888	2787	2680	2560	2439	2310	2167	2003	1810
			BHP	0.89	0.93	0.97	1.01	1.04	1.07	1.10	1.11	1.12	1.11
			Sones	24	23	22	22	21	20	20	19.6	18.3	16.6

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Roof Upblast - Direct Drive Sizes-180, 180HP and 200: CUE



CUE

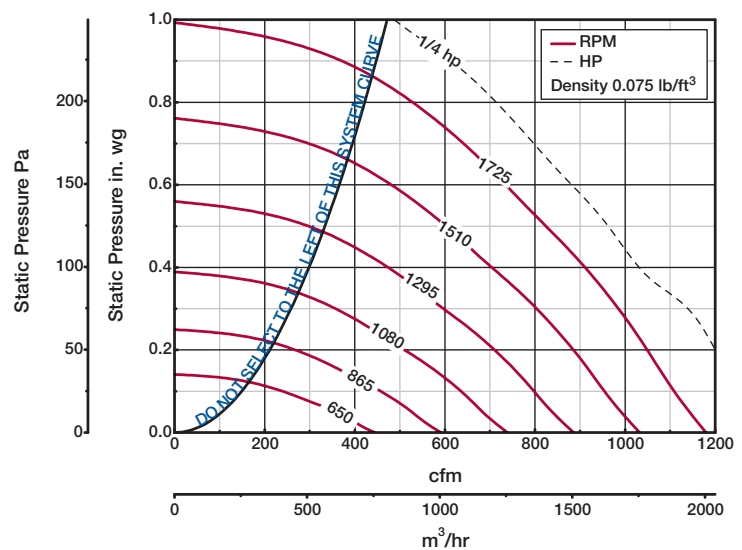
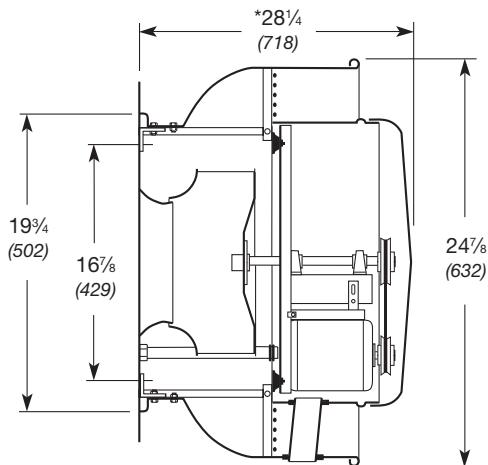
Damper Size = 18 x 18 (457 x 457)
Roof Opening = 20 1/2 x 20 1/2 (521 x 521)
Windband Thickness = 0.064 (1.6)
Motor Cover Thickness = 0.040 (1.0)
Curb Cap Thickness = 0.064 (1.6)
^Approximate Unit Weight = 142 lb (64 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of each model, please see pages 82-87.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.25	0.5	0.75	1	1.25	1.5	2	2.5	3
180-C	1/2	860	CFM	3249	2922	2474							
			BHP	0.34	0.39	0.40							
			Sones	12.3	11.1	10.2							
180-B	1	1140	CFM	4307	4045	3822	3470	3072	2477				
			BHP	0.80	0.86	0.91	0.93	0.92	0.85				
			Sones	17.6	16.5	16.1	15.4	14.6	13.6				
180HP-A	2	1725	CFM	4850	4732	4613	4493	4353	4215	4078	3740	3265	2695
			BHP	1.77	1.84	1.92	1.99	2.06	2.12	2.18	2.23	2.25	2.16
			Sones	30	29	28	27	26	26	25	24	23	21
200-C	3/4	860	CFM	4837	4346	3815	3084						
			BHP	0.71	0.74	0.75	0.73						
			Sones	15.7	14.6	12.9	11.9						
200-B	2	1140	CFM	6412	6036	5674	5283	4837	4276	3445			
			BHP	1.65	1.70	1.74	1.74	1.74	1.73	1.63			
			Sones	24	23	22	21	20	19.2	19.9			

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-098



CWB

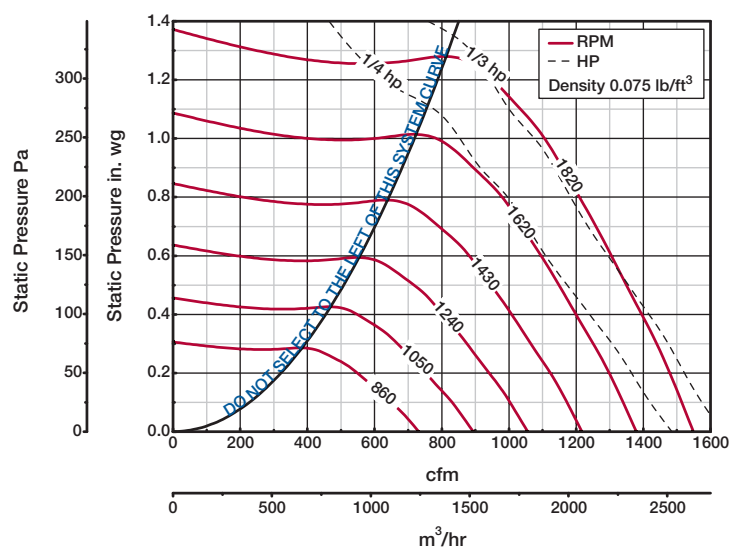
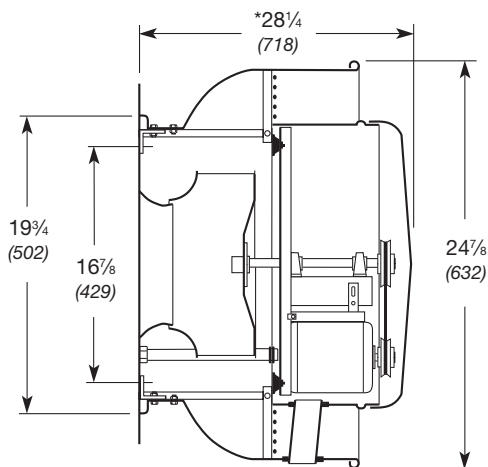
Damper Size = 12 x 12 (305 x 305)
 Damper Frame Size = 14 x 14 (356 x 356)
 Wall Opening = $12\frac{1}{2} \times 12\frac{1}{2}$ (318 x 318)
 Windband Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 ^Approximate Unit Weight = 58 lb (26 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	Fan RPM	CFM / Static Pressure in Inches wg										
				0	0.05	0.1	0.125	0.2	0.25	0.375	0.5	0.625	0.75
CWB- 098-4	1/4	650	CFM	445	357	239							
			BHP	0.01	0.01	0.01							
			Sones	8.1	8.5	9.9							
		755	CFM	516	442	352	301						
			BHP	0.02	0.02	0.02	0.02						
			Sones	8.3	8.4	8.9	9.3						
		860	CFM	588	523	453	409	258					
			BHP	0.02	0.02	0.02	0.02	0.02					
			Sones	8.4	8.4	8.5	8.7	9.1					
		965	CFM	660	600	543	509	392	294				
			BHP	0.03	0.03	0.03	0.04	0.04	0.04				
			Sones	8.7	8.6	8.6	8.5	8.6	8.6				
		1070	CFM	732	677	627	600	500	428				
			BHP	0.04	0.04	0.04	0.05	0.05	0.05				
			Sones	8.9	8.8	8.6	8.6	8.4	8.4				
		1175	CFM	804	752	708	684	603	537	350			
			BHP	0.06	0.06	0.06	0.06	0.06	0.06	0.06			
			Sones	9.3	9.2	9.0	8.9	8.7	8.6	8.2			
		1280	CFM	875	828	787	766	696	642	488			
			BHP	0.07	0.07	0.07	0.07	0.08	0.08	0.08			
			Sones	10.2	10.1	9.9	9.8	9.7	9.5	9.3			
		1385	CFM	947	903	864	845	785	738	603	448		
			BHP	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10		
			Sones	11.2	11.1	10.9	10.8	10.7	10.6	10.4	10.3		
		1490	CFM	1019	978	940	923	868	829	710	578	409	
			BHP	0.12	0.12	0.12	0.12	0.12	0.13	0.13	0.13	0.13	
			Sones	12.3	12.2	11.9	12.0	11.8	11.8	11.5	11.5	11.6	
		1595	CFM	1091	1053	1016	1000	950	914	813	692	560	
			BHP	0.14	0.14	0.14	0.14	0.14	0.15	0.16	0.16	0.16	
			Sones	13.2	13.1	12.8	12.8	12.5	12.5	12.3	12.1	12.2	
		1725	CFM	1180	1144	1109	1094	1049	1017	929	824	712	586
			BHP	0.18	0.18	0.18	0.18	0.18	0.18	0.20	0.20	0.20	0.20
			Sones	13.8	13.6	13.5	13.4	13.1	13.0	12.7	12.2	12.1	12.3

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-101



CWB

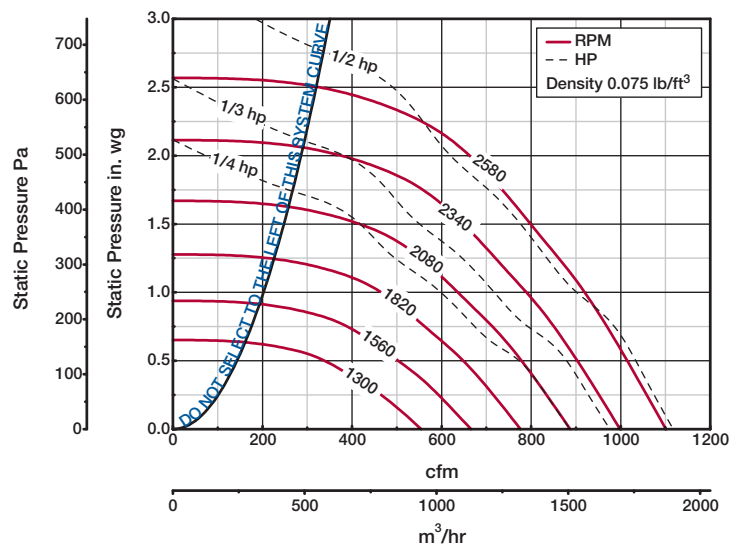
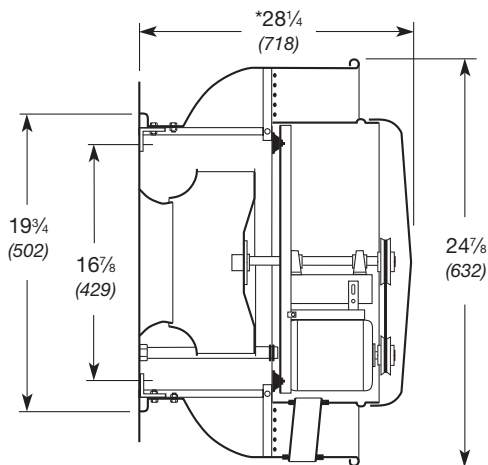
Damper Size = 12 x 12 (305 x 305)
 Damper Frame Size = 14 x 14 (356 x 356)
 Wall Opening = 12½ x 12½ (318 x 318)
 Windband Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 ^Approximate Unit Weight = 58 lb (26 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	Fan RPM	CFM / Static Pressure in Inches wg										
				0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.25
CWB- 101-4	1/4	860	CFM	732	625	481							
			BHP	0.03	0.04	0.04							
			Sones	4.6	2.4	0.6							
		958	CFM	815	722	609							
			BHP	0.04	0.05	0.05							
			Sones	5.5	4.5	3.3							
		1056	CFM	899	817	718	593						
			BHP	0.06	0.06	0.07	0.07						
			Sones	6.6	6.3	5.7	5.4						
		1154	CFM	982	910	821	724	574					
			BHP	0.07	0.08	0.09	0.09	0.08					
			Sones	7.3	7.1	6.6	6.1	5.8					
		1252	CFM	1066	1000	920	834	732					
			BHP	0.09	0.10	0.11	0.11	0.11					
			Sones	8.0	8.0	7.6	6.9	6.5					
		1350	CFM	1149	1089	1016	940	856	745				
			BHP	0.12	0.13	0.13	0.14	0.14	0.14				
			Sones	8.9	8.9	8.6	8.1	7.5	7.0				
		1448	CFM	1233	1176	1112	1040	966	886	763			
			BHP	0.14	0.15	0.16	0.17	0.17	0.17	0.17			
			Sones	10.3	10.2	9.9	9.5	9.0	8.3	8.0			
		1546	CFM	1316	1264	1206	1139	1072	999	915	820		
			BHP	0.17	0.19	0.20	0.20	0.21	0.21	0.21	0.21		
			Sones	11.8	11.5	11.3	10.9	10.5	9.8	9.3	9.0		
		1660	CFM	1413	1365	1313	1251	1189	1125	1056	974	861	
			BHP	0.22	0.23	0.24	0.25	0.26	0.26	0.26	0.26	0.25	
			Sones	12.7	12.3	12.0	11.6	11.3	10.8	10.2	9.6	9.4	
CWB- 101-3	1/3	1740	CFM	1481	1435	1386	1329	1270	1210	1146	1093	991	
			BHP	0.25	0.26	0.27	0.28	0.29	0.30	0.30	0.30	0.30	
			Sones	13.4	13.0	12.6	12.1	11.8	11.4	10.9	10.5	9.7	
		1820	CFM	1549	1505	1459	1406	1350	1293	1234	1184	1106	900
			BHP	0.28	0.30	0.31	0.32	0.33	0.34	0.35	0.35	0.35	0.33
			Sones	14.3	13.7	13.4	12.7	12.4	12.0	11.6	11.3	10.6	10.1

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-101HP



CWB

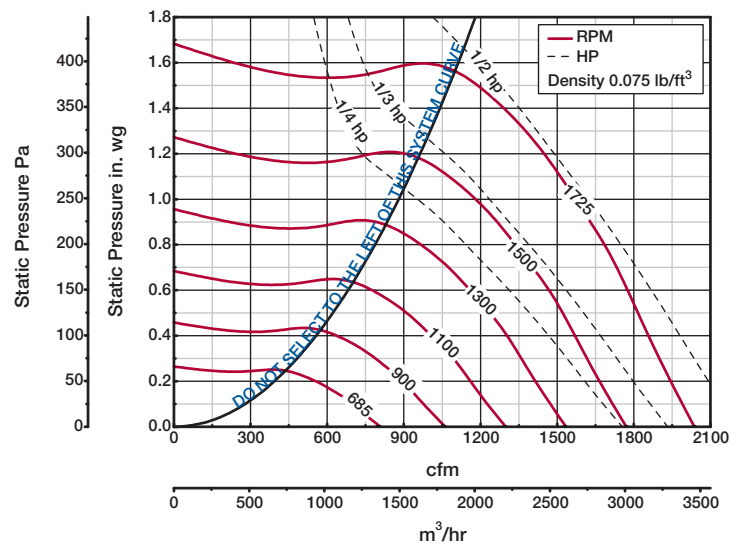
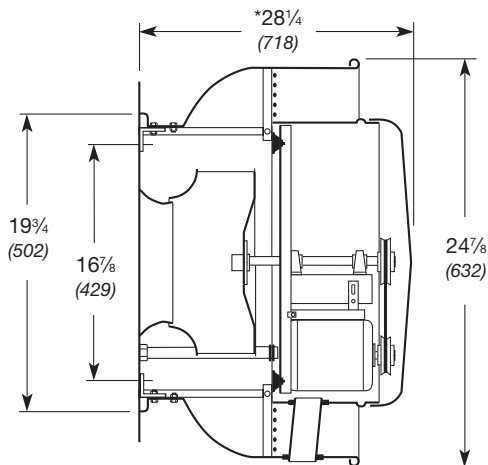
Damper Size = 12 x 12 (305 x 305)
 Damper Frame Size = 14 x 14 (356 x 356)
 Wall Opening = 12½ x 12½ (318 x 318)
 Windband Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 ^Approximate Unit Weight = 58 lb (26 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	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
CWB- 101HP-4	1/4	1300	CFM	335	182								
			BHP	0.07	0.06								
			Sones	6.0	6.3								
		1420	CFM	419	350	191							
			BHP	0.09	0.09	0.07							
			Sones	6.8	6.6	6.9							
		1540	CFM	491	438	371							
			BHP	0.11	0.11	0.11							
			Sones	7.8	7.5	7.3							
		1660	CFM	560	512	461	262						
			BHP	0.14	0.14	0.14	0.12						
			Sones	8.9	8.6	8.4	8.3						
CWB- 101HP-3	1/3	1780	CFM	627	583	538	430						
			BHP	0.17	0.17	0.17	0.17						
			Sones	10.3	9.9	9.6	9.1						
		1900	CFM	688	651	610	520	382					
			BHP	0.20	0.21	0.21	0.21	0.19					
			Sones	12.1	11.4	11.0	10.5	10.2					
		2045	CFM	761	729	693	615	522	346				
			BHP	0.24	0.26	0.26	0.26	0.26	0.23				
			Sones	13.9	13.5	12.7	12.1	11.5	11.4				
		2150	CFM	812	782	752	678	600	500				
			BHP	0.28	0.29	0.30	0.30	0.30	0.30				
			Sones	14.1	14.1	13.5	12.5	12.0	11.5				
CWB- 101HP-5	1/2	2250	CFM	860	832	804	737	665	579	456			
			BHP	0.32	0.33	0.34	0.35	0.35	0.35	0.32			
			Sones	14.4	14.4	14.2	13.2	12.5	11.9	11.6			
		2415	CFM	938	914	887	831	765	697	614	498		
			BHP	0.39	0.39	0.41	0.43	0.43	0.43	0.43	0.40		
			Sones	15.1	15.0	15.0	14.5	13.7	12.9	12.2	12.0		
		2580	CFM	1014	992	969	919	861	799	735	655	550	323
			BHP	0.48	0.48	0.49	0.52	0.53	0.53	0.53	0.53	0.49	0.43
			Sones	16.8	16.4	16.0	15.7	15.1	14.4	13.7	13.2	12.9	12.5

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-121



CWB

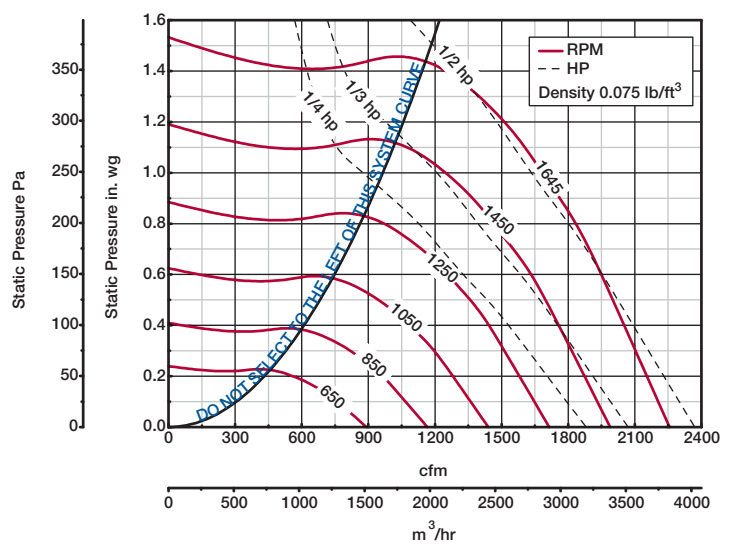
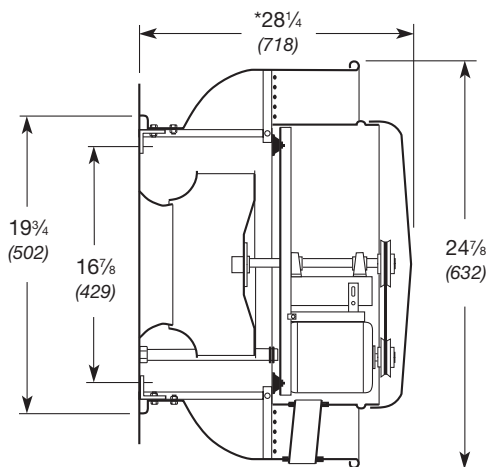
Damper Size = 12 x 12 (305 x 305)
Damper Frame Size = 14 x 14 (356 x 356)
Wall Opening = 12½ x 12½ (318 x 318)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
^Approximate Unit Weight = 66 lb (30 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	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
CWB- 121-4	1/4	685	CFM	809	670								
			BHP	0.02	0.03								
			Sones	4.4	4.4								
		798	CFM	942	824	680							
			BHP	0.04	0.04	0.05							
			Sones	5.0	5.2	5.2							
		911	CFM	1076	971	861	703						
			BHP	0.06	0.06	0.07	0.07						
			Sones	5.6	6.0	6.0	6.0						
		1024	CFM	1209	1115	1025	910	755					
			BHP	0.08	0.09	0.10	0.10	0.10					
			Sones	6.4	6.8	7.0	6.9	6.9					
CWB- 121-3	1/3	1137	CFM	1343	1257	1176	1087	976	825				
			BHP	0.11	0.12	0.13	0.13	0.14	0.13				
			Sones	7.3	7.8	8.1	8.2	8.0	8.1				
		1250	CFM	1476	1397	1323	1250	1159	1053	916			
			BHP	0.15	0.16	0.17	0.17	0.18	0.18	0.18			
			Sones	8.8	9.3	9.9	9.9	10.0	9.8	9.8			
		1410	CFM	1665	1595	1528	1463	1398	1315	1224	965		
			BHP	0.21	0.22	0.23	0.24	0.25	0.26	0.26	0.25		
			Sones	11.1	11.6	12.2	12.5	12.6	12.7	12.7	12.3		
		1480	CFM	1748	1681	1617	1555	1493	1421	1338	1132		
			BHP	0.25	0.26	0.27	0.28	0.29	0.29	0.30	0.30		
			Sones	11.9	12.4	13.1	13.5	13.7	13.8	13.8	13.6		
CWB- 121-5	1/2	1545	CFM	1824	1760	1699	1639	1580	1518	1441	1262	990	
			BHP	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.34	0.33	
			Sones	12.8	13.4	14.0	14.5	14.7	14.8	14.9	14.9	14.6	
		1635	CFM	1931	1870	1811	1755	1699	1643	1577	1424	1226	
			BHP	0.33	0.34	0.36	0.37	0.38	0.39	0.40	0.41	0.40	
			Sones	14.1	14.7	15.2	15.9	16.2	16.4	16.6	16.7	16.5	
		1725	CFM	2037	1979	1923	1869	1816	1763	1710	1571	1406	1176
			BHP	0.39	0.40	0.41	0.43	0.44	0.45	0.46	0.47	0.48	0.46
			Sones	15.6	16.1	16.7	17.3	17.9	18.2	18.4	18.7	18.6	18.4

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-131



CWB

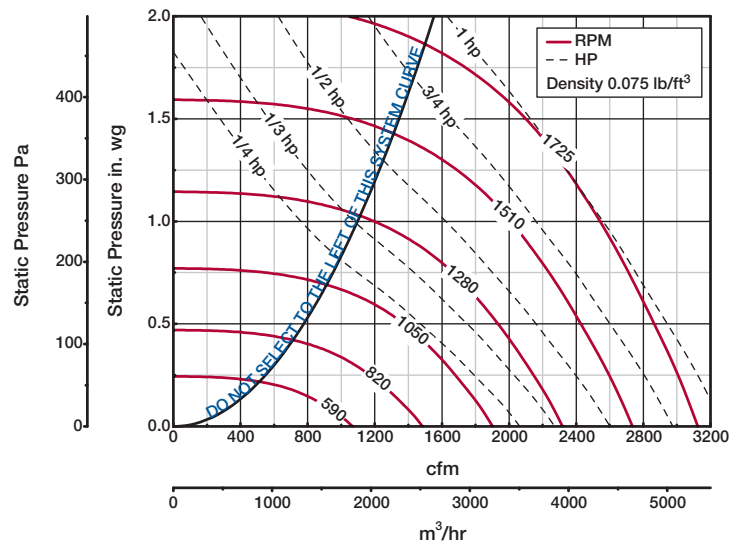
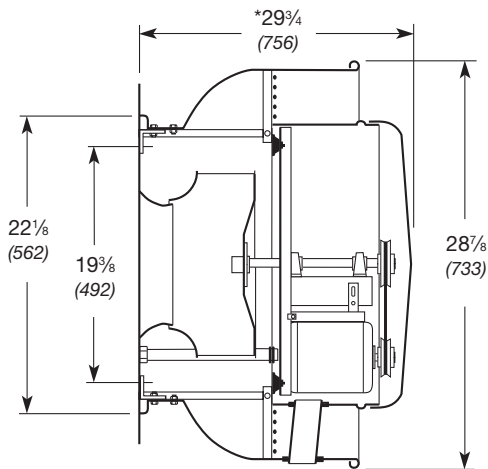
Damper Size = 12 x 12 (305 x 305)
 Damper Frame Size = 14 x 14 (356 x 356)
 Wall Opening = 12½ x 12½ (318 x 318)
 Windband Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 ^Approximate Unit Weight = 66 lb (30 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	Fan RPM	CFM / Static Pressure in Inches wg										
				0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.25
CWB- 131-4	1/4	650	CFM	892	724								
			BHP	0.03	0.03								
			Sones	6.2	6.0								
		780	CFM	1070	935	756							
			BHP	0.05	0.05	0.06							
			Sones	7.5	7.3	6.6							
		910	CFM	1248	1133	1007	819						
			BHP	0.07	0.08	0.09	0.09						
			Sones	9.3	9.1	8.5	7.7						
		1040	CFM	1426	1325	1222	1094	919					
			BHP	0.11	0.12	0.13	0.13	0.13					
			Sones	11.3	11.0	10.5	9.8	9.0					
		1170	CFM	1605	1515	1425	1329	1204	1045				
			BHP	0.16	0.17	0.18	0.18	0.19	0.18				
			Sones	12.9	12.6	12.2	11.7	10.8	10.1				
		1305	CFM	1790	1709	1629	1547	1458	1340	1201	1003		
			BHP	0.22	0.23	0.24	0.25	0.26	0.26	0.26	0.24		
			Sones	14.6	14.3	13.9	13.5	13.0	12.0	11.5	10.8		
CWB- 131-3	1/3	1435	CFM	1968	1895	1822	1749	1671	1586	1479	1358	1198	
			BHP	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.34	0.33	
			Sones	15.7	15.5	15.1	14.8	14.3	13.8	13.1	12.5	11.9	
		1487	CFM	2039	1969	1898	1828	1754	1677	1579	1471	1339	
			BHP	0.32	0.33	0.34	0.36	0.37	0.38	0.38	0.39	0.38	
			Sones	16.2	15.9	15.7	15.4	14.9	14.5	13.9	13.2	12.7	
CWB- 131-5	1/2	1540	CFM	2112	2044	1976	1908	1838	1764	1678	1577	1465	
			BHP	0.35	0.37	0.38	0.39	0.41	0.42	0.42	0.43	0.43	
			Sones	16.7	16.5	16.2	16.0	15.6	15.2	14.6	14.0	13.4	
		1592	CFM	2183	2117	2052	1986	1920	1848	1774	1678	1578	1301
			BHP	0.39	0.41	0.42	0.43	0.44	0.46	0.47	0.47	0.47	0.45
			Sones	17.3	17.0	16.8	16.6	16.2	15.8	15.3	14.8	14.3	13.0
		1645	CFM	2256	2192	2128	2065	2001	1933	1864	1778	1684	1455
			BHP	0.43	0.45	0.46	0.47	0.49	0.50	0.51	0.52	0.52	0.51
			Sones	17.9	17.6	17.4	17.2	16.9	16.5	16.1	15.6	15.1	13.9

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-141



CWB

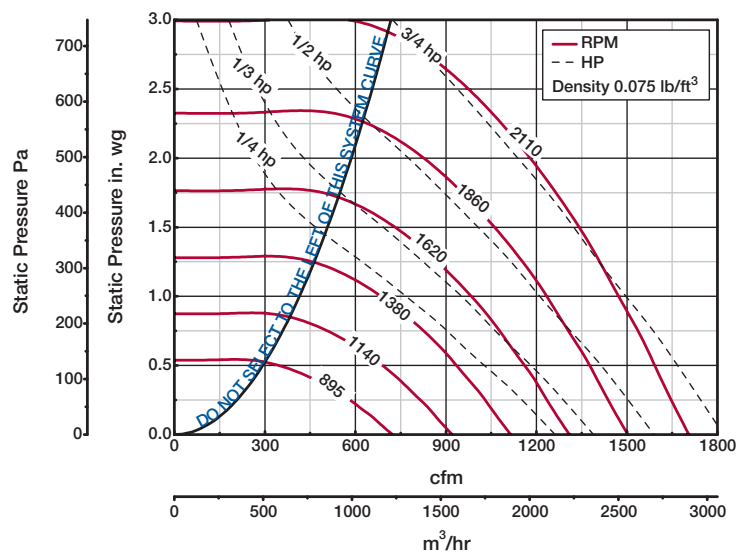
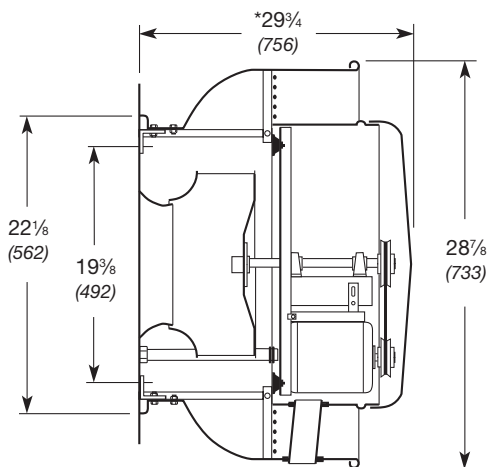
Damper Size = 15 x 15 (381 x 381)
 Damper Frame Size = 17 x 17 (432 x 432)
 Wall Opening = $15\frac{1}{2}$ x $15\frac{1}{2}$ (394 x 394)
 Windband Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 ^Approximate Unit Weight = 84 lb (38 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	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
CWB- 141-4	1/4	590	CFM	1069	851								
			BHP	0.04	0.04								
			Sones	5.0	4.5								
		715	CFM	1295	1130	885							
			BHP	0.06	0.07	0.07							
			Sones	6.0	6.0	5.1							
		840	CFM	1521	1387	1217	969						
			BHP	0.10	0.11	0.11	0.11						
			Sones	7.1	7.3	6.8	6.2						
		965	CFM	1748	1635	1499	1333	1103					
			BHP	0.15	0.16	0.17	0.17	0.17					
			Sones	8.6	8.7	8.5	8.1	7.7					
CWB- 141-3	1/3	1105	CFM	2001	1906	1793	1667	1515	998				
			BHP	0.23	0.24	0.25	0.26	0.26	0.23				
			Sones	10.9	10.8	10.6	10.3	10.0	9.6				
		1210	CFM	2192	2106	2006	1896	1773	1443				
			BHP	0.30	0.31	0.32	0.33	0.34	0.34				
			Sones	12.2	12.2	11.7	11.6	11.2	10.9				
		1290	CFM	2337	2258	2166	2065	1957	1691	1221			
			BHP	0.36	0.38	0.39	0.40	0.41	0.42	0.37			
			Sones	13.2	13.3	12.7	12.6	12.3	12.0	11.3			
		1390	CFM	2518	2445	2362	2271	2174	1949	1643			
			BHP	0.45	0.47	0.48	0.50	0.51	0.52	0.51			
			Sones	14.9	14.7	14.2	13.2	12.9	12.1	11.0			
CWB- 141-5	1/2	1495	CFM	2708	2640	2565	2483	2396	2202	1967	1617		
			BHP	0.56	0.58	0.60	0.61	0.62	0.64	0.65	0.61		
			Sones	17.2	16.5	16.3	15.6	13.9	12.5	12.2	10.8		
		1595	CFM	2889	2826	2757	2683	2602	2430	2225	1968	1568	
			BHP	0.69	0.70	0.72	0.74	0.75	0.77	0.79	0.78	0.72	
			Sones	20	19.0	18.5	19.5	16.1	13.3	12.3	12.6	11.6	
CWB- 141-7	3/4	1725	CFM	3125	3066	3005	2936	2865	2711	2539	2339	2085	1704
			BHP	0.87	0.88	0.90	0.92	0.94	0.97	0.99	1.00	0.98	0.91
			Sones	26	23	22	24	24	15.1	13.4	14.3	13.8	13.8

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-141HP



CWB

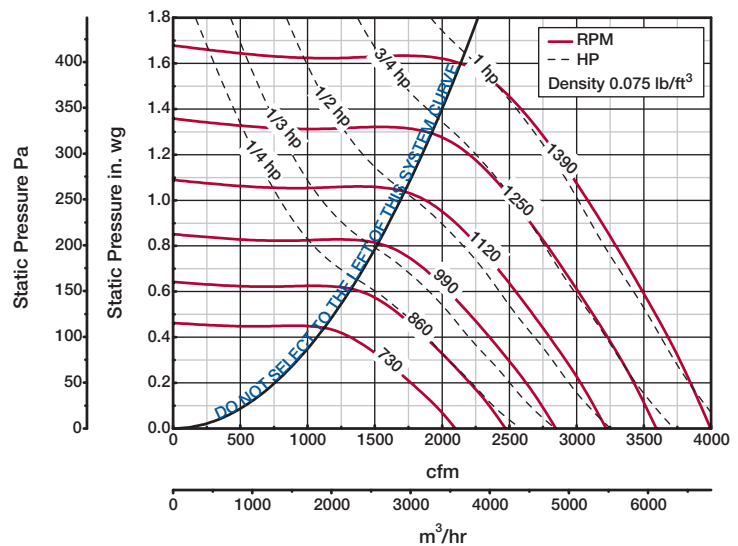
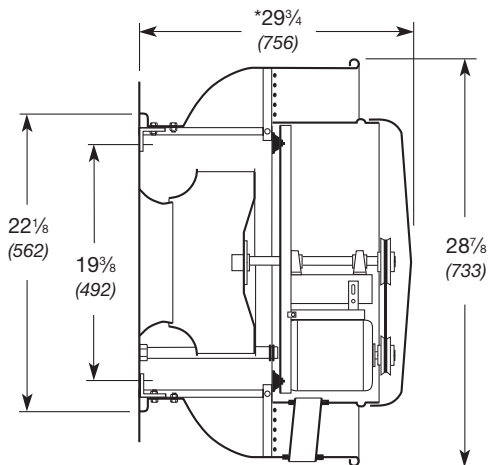
Damper Size = 15 x 15 (381 x 381)
 Damper Frame Size = 17 x 17 (432 x 432)
 Wall Opening = 15½ x 15½ (394 x 394)
 Windband Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 ^Approximate Unit Weight = 84 lb (38 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	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
CWB- 141HP-4	1/4	895	CFM	331									
			BHP	0.06									
			Sones	6.1									
		1037	CFM	566									
			BHP	0.10									
			Sones	6.7									
		1179	CFM	733	563								
			BHP	0.13	0.14								
			Sones	8.9	9.2								
		1321	CFM	878	756	591							
			BHP	0.18	0.19	0.19							
			Sones	12.1	11.6	13.6							
CWB- 141HP-3	1/3	1465	CFM	1016	920	798	642						
			BHP	0.24	0.26	0.26	0.26						
			Sones	14.2	13.5	13.2	15.5						
		1605	CFM	1146	1063	965	846	704					
			BHP	0.31	0.33	0.34	0.34	0.34					
			Sones	15.2	14.4	14.2	14.0	15.2					
CWB- 141HP-5	1/2	1725	CFM	1256	1178	1098	999	879	747				
			BHP	0.38	0.40	0.42	0.43	0.43	0.42				
			Sones	16.1	15.4	15.0	14.9	14.7	15.7				
		1845	CFM	1363	1292	1219	1137	1042	924	800			
			BHP	0.46	0.48	0.50	0.52	0.52	0.52	0.51			
			Sones	17.0	16.6	16.2	16.0	15.9	15.6	16.1			
CWB- 141HP-7	3/4	1960	CFM	1463	1399	1330	1260	1176	1086	970	854		
			BHP	0.54	0.57	0.59	0.61	0.62	0.63	0.62	0.62		
			Sones	18.1	17.7	17.4	17.2	17.1	17.0	16.8	16.9		
		2035	CFM	1528	1468	1402	1335	1261	1175	1077	965	826	
			BHP	0.60	0.63	0.66	0.68	0.69	0.70	0.70	0.69	0.67	
			Sones	18.9	18.5	18.2	18.0	18.0	17.8	17.7	17.5	17.8	
		2110	CFM	1592	1536	1473	1409	1341	1262	1178	1073	965	804
			BHP	0.67	0.70	0.72	0.75	0.77	0.78	0.78	0.78	0.77	0.73
			Sones	19.8	19.3	19.1	19.0	18.9	18.8	18.6	18.5	18.3	20

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-161



CWB

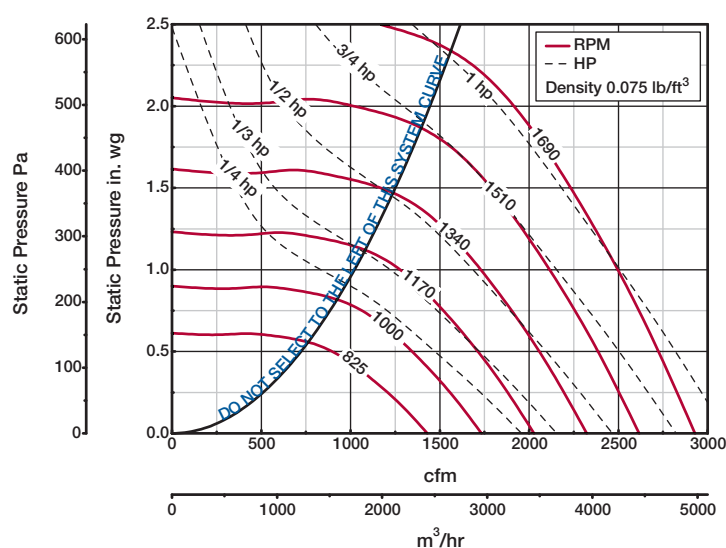
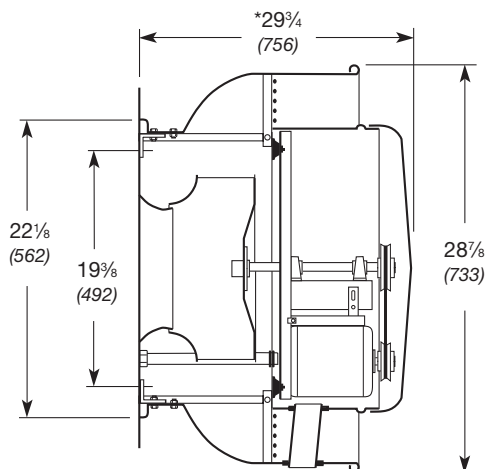
Damper Size = 15 x 15 (381 x 381)
Damper Frame Size = 17 x 17 (432 x 432)
Wall Opening = 15½ x 15½ (394 x 394)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
^Approximate Unit Weight = 87 lb (39 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	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	
CWB- 161-4	1/4	730	CFM	2098	1905	1669	1389	MAXIMUM BHP AT A GIVEN RPM = (RPM/1365) ³ MAXIMUM RPM = 1390 TIP SPEED (ft/min) = RPM x 4.352 MAXIMUM MOTOR FRAME SIZE = 145T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/1.72						
			BHP	0.13	0.15	0.15	0.15							
			Sones	8.1	8.0	7.8	7.8							
		778	CFM	2236	2058	1843	1596							
			BHP	0.16	0.18	0.19	0.18							
			Sones	8.9	8.7	8.5	8.4							
		826	CFM	2374	2209	2010	1790	1512						
			BHP	0.20	0.22	0.22	0.22	0.21						
			Sones	9.9	9.6	9.3	9.1	9.0						
		875	CFM	2515	2362	2177	1974	1744	1365					
			BHP	0.23	0.26	0.26	0.26	0.26	0.24					
			Sones	11.0	10.6	10.1	9.9	9.7	9.7					
CWB- 161-3	1/3	965	CFM	2774	2637	2477	2300	2109	1893	1584				
			BHP	0.31	0.34	0.35	0.35	0.35	0.34	0.33				
			Sones	12.4	12.0	11.5	11.2	10.8	10.6	10.5				
CWB- 161-5	1/2	1038	CFM	2984	2857	2712	2552	2382	2199	1992				
			BHP	0.39	0.42	0.43	0.44	0.44	0.43	0.43				
			Sones	13.7	13.3	12.8	12.4	12.1	11.8	11.6				
		1110	CFM	3191	3072	2941	2796	2641	2475	2297	1770			
			BHP	0.47	0.51	0.53	0.53	0.54	0.53	0.52	0.49			
			Sones	15.0	14.6	14.2	13.8	13.5	13.1	12.9	12.2			
CWB- 161-7	3/4	1188	CFM	3415	3304	3186	3053	2911	2764	2606	2246			
			BHP	0.58	0.62	0.64	0.65	0.65	0.66	0.65	0.64			
			Sones	16.7	16.3	15.8	15.4	15.0	14.7	14.5	14.0			
		1265	CFM	3636	3532	3426	3301	3172	3036	2894	2583	2163		
			BHP	0.70	0.74	0.77	0.78	0.79	0.79	0.79	0.78	0.75		
			Sones	18.5	18.1	17.7	17.2	16.8	16.5	16.3	15.8	15.2		
CWB- 161-10	1	1328	CFM	3817	3718	3619	3502	3383	3253	3124	2843	2510		
			BHP	0.81	0.85	0.89	0.90	0.91	0.91	0.92	0.90	0.89		
			Sones	20	19.6	19.2	18.7	18.3	18.0	17.8	17.4	16.9		
		1390	CFM	3996	3901	3806	3698	3584	3464	3340	3078	2785	2394	
			BHP	0.93	0.97	1.01	1.03	1.04	1.04	1.05	1.04	1.03	1.00	
			Sones	22	21	21	20	19.9	19.6	19.4	19.0	18.6	18.0	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-161HP



CWB

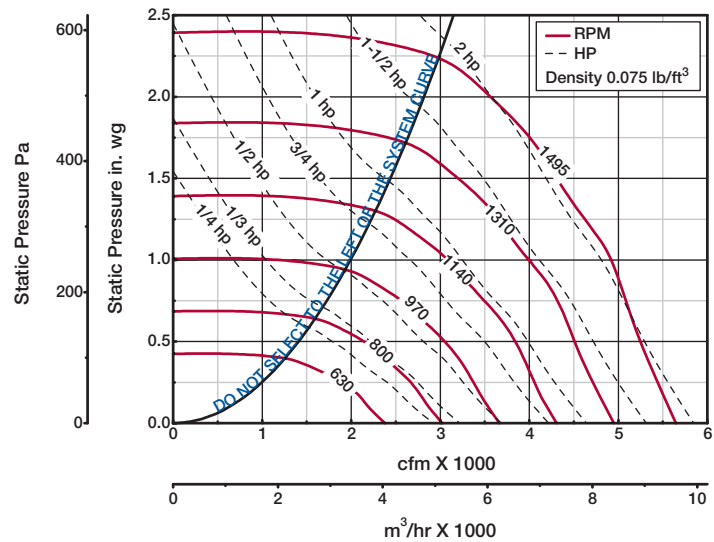
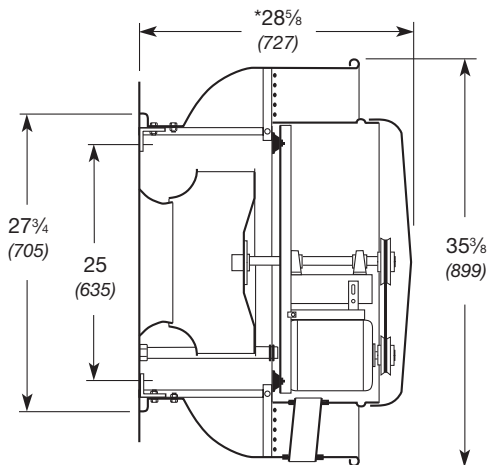
Damper Size = 15 x 15 (381 x 381)
 Damper Frame Size = 17 x 17 (432 x 432)
 Wall Opening = 15½ x 15½ (394 x 394)
 Windband Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 ^Approximate Unit Weight = 85 lb (39 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0.5	0.625	0.75	0.875	1	1.25	1.5	1.75	2	2.25
CWB- 161HP-4	1/4	825	CFM	889									
			BHP	0.12									
			Sones	7.0									
		910	CFM	1129	956								
			BHP	0.16	0.16								
			Sones	8.3	7.8								
		995	CFM	1331	1208	1042							
			BHP	0.21	0.21	0.21							
			Sones	9.6	9.3	8.8							
		1065	CFM	1487	1377	1252	1093						
			BHP	0.25	0.26	0.26	0.26						
			Sones	11.0	10.6	10.2	9.8						
CWB- 161HP-3	1/3	1165	CFM	1697	1608	1504	1395	1252					
			BHP	0.32	0.33	0.34	0.34	0.34					
			Sones	12.8	12.7	12.2	11.7	11.3					
CWB- 161HP-5	1/2	1255	CFM	1882	1799	1715	1617	1519	1218				
			BHP	0.40	0.41	0.42	0.43	0.43	0.42				
			Sones	13.1	12.8	12.5	12.0	11.5	10.6				
		1340	CFM	2053	1975	1897	1816	1724	1513				
			BHP	0.48	0.49	0.50	0.51	0.52	0.52				
			Sones	14.4	13.8	13.3	12.8	12.3	11.3				
CWB- 161HP-7	3/4	1441	CFM	2253	2180	2108	2036	1961	1790	1577			
			BHP	0.59	0.60	0.61	0.63	0.64	0.65	0.65			
			Sones	16.3	15.8	15.2	14.7	14.3	13.5	12.3			
		1535	CFM	2433	2368	2301	2233	2165	2015	1855	1638		
			BHP	0.70	0.72	0.73	0.74	0.76	0.78	0.79	0.78		
			Sones	18.1	17.7	17.2	16.8	16.4	15.7	14.9	13.5		
CWB- 161HP-10	1	1610	CFM	2573	2516	2452	2387	2322	2190	2037	1863	1651	
			BHP	0.80	0.82	0.83	0.85	0.86	0.89	0.90	0.91	0.90	
			Sones	19.6	19.2	18.8	18.4	18.1	17.5	16.9	15.8	14.3	
		1690	CFM	2722	2671	2611	2550	2488	2365	2228	2082	1899	1664
			BHP	0.92	0.94	0.95	0.97	0.98	1.01	1.03	1.05	1.05	1.03
			Sones	21	21	21	20	20	19.5	19.1	18.6	16.9	15.0

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-180



CWB

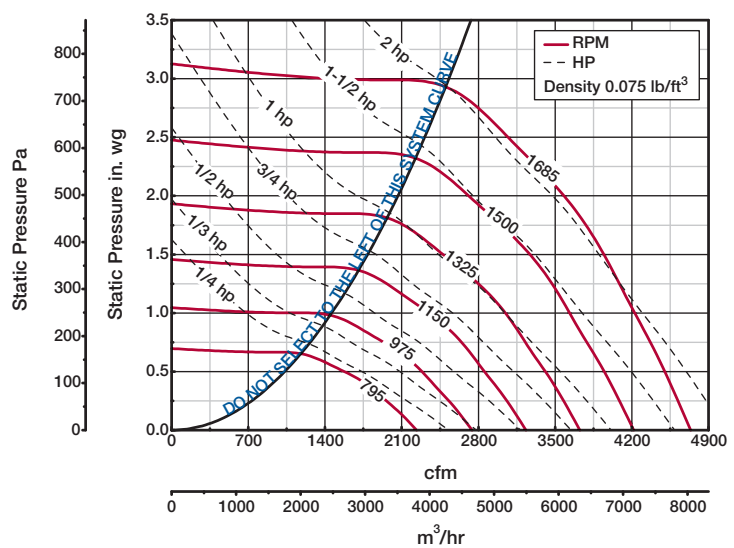
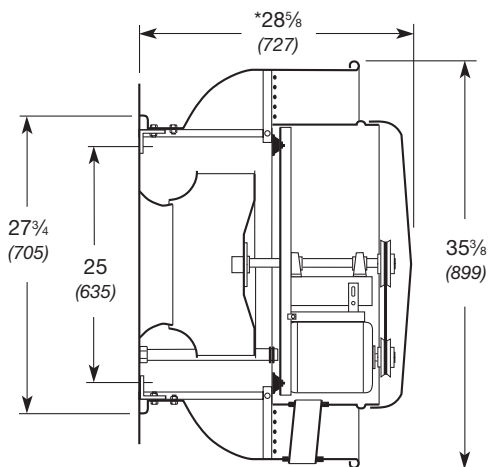
Damper Size = 17 x 17 (432 x 432)
Damper Frame Size = 19 x 19 (483 x 483)
Wall Opening = 17½ x 17½ (445 x 445)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
^Approximate Unit Weight = 126 lb (57 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.125	0.25	0.5	0.75	1	1.25	1.5	1.75	2
CWB- 180-4	1/4	630	CFM	2380	2154	1861							
			BHP	0.13	0.15	0.16							
			Sones	7.1	6.4	5.5							
		745	CFM	2815	2617	2448	1763						
			BHP	0.22	0.24	0.26	0.25						
			Sones	9.2	8.6	8.1	7.1						
CWB- 180-3	1/3	820	CFM	3098	2916	2759	2257						
			BHP	0.30	0.32	0.34	0.34						
			Sones	11.2	10.4	10.0	9.0						
CWB- 180-5	1/2	940	CFM	3551	3389	3243	2879	2363					
			BHP	0.45	0.47	0.49	0.52	0.50					
			Sones	13.8	13.5	13.1	12.4	11.2					
CWB- 180-7	3/4	1010	CFM	3816	3664	3526	3242	2799	2105				
			BHP	0.56	0.58	0.61	0.65	0.64	0.58				
			Sones	15.4	15.2	14.9	14.7	13.7	11.8				
		1075	CFM	4061	3919	3786	3554	3141	2652				
			BHP	0.67	0.70	0.73	0.78	0.78	0.75				
			Sones	16.5	16.2	15.8	15.5	14.7	13.3				
CWB- 180-10	1	1185	CFM	4477	4348	4224	4005	3703	3336	2841			
			BHP	0.90	0.93	0.96	1.01	1.04	1.04	0.99			
			Sones	18.5	17.9	17.1	16.5	16.0	15.2	14.4			
CWB- 180-15	1½	1275	CFM	4817	4697	4578	4369	4163	3799	3437	2930		
			BHP	1.12	1.15	1.19	1.24	1.30	1.30	1.28	1.22		
			Sones	21	20	19.5	18.7	18.2	17.5	16.7	15.9		
		1360	CFM	5138	5026	4913	4710	4532	4232	3912	3537	3023	
			BHP	1.36	1.39	1.43	1.49	1.56	1.58	1.58	1.54	1.46	
			Sones	23	23	22	21	21	20	19.2	18.3	17.3	
CWB- 180-20	2	1430	CFM	5402	5296	5189	4993	4819	4593	4270	3968	3567	3001
			BHP	1.58	1.62	1.66	1.72	1.79	1.83	1.83	1.83	1.76	1.66
			Sones	25	25	25	24	23	22	22	21	19.5	18.2
		1495	CFM	5648	5546	5443	5254	5082	4921	4598	4313	3983	3564
			BHP	1.80	1.84	1.89	1.96	2.02	2.10	2.10	2.10	2.06	1.99
			Sones	28	27	27	26	25	25	24	23	22	21

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-180HP



CWB

Damper Size = 17 x 17 (432 x 432)

Damper Frame Size = 19 x 19 (483 x 483)

Wall Opening = 17½ x 17½ (445 x 445)

Windband Thickness = 0.051 (1.3)

Motor Cover Thickness = 0.040 (1.0)

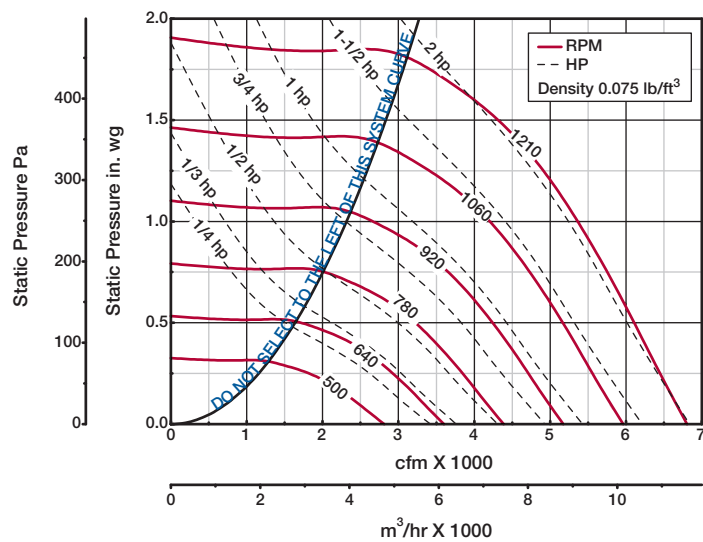
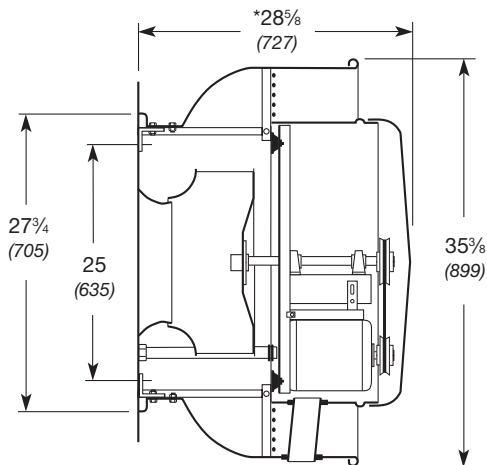
^Approximate Unit Weight = 126 lb (57 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	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
CWB- 180HP-4	1/4	795	CFM	1570									
			BHP	0.22									
			Sones	8.3									
		845	CFM	1799									
			BHP	0.26									
			Sones	9.5									
CWB- 180HP-3	1/3	925	CFM	2104	1688								
			BHP	0.34	0.35								
			Sones	10.8	9.8								
CWB- 180HP-5	1/2	1065	CFM	2581	2323	1933							
			BHP	0.50	0.52	0.53							
			Sones	13.8	12.5	12.4							
CWB- 180HP-7	3/4	1215	CFM	3063	2868	2626	2286	1854					
			BHP	0.72	0.76	0.78	0.79	0.75					
			Sones	15.0	14.5	14.0	13.4	12.9					
CWB- 180HP-10	1	1275	CFM	3253	3066	2853	2566	2209					
			BHP	0.82	0.87	0.89	0.91	0.89					
			Sones	16.7	15.8	15.4	14.9	14.3					
		1335	CFM	3441	3261	3075	2839	2523	2156				
			BHP	0.93	0.98	1.02	1.04	1.04	1.04				
			Sones	18.7	17.4	17.0	16.6	16.1	15.6				
CWB- 180HP-15	1½	1430	CFM	3735	3566	3401	3206	2964	2669	2320			
			BHP	1.13	1.19	1.23	1.26	1.27	1.28	1.24			
			Sones	22	21	19.7	19.3	18.9	18.4	17.9			
		1530	CFM	4005	3853	3696	3538	3338	3089	2807	2479		
			BHP	1.34	1.40	1.46	1.50	1.52	1.53	1.54	1.49		
			Sones	23	22	21	21	20	19.7	19.1	18.4		
CWB- 180HP-20	2	1610	CFM	4273	4136	3986	3840	3674	3485	3233	2965	2656	
			BHP	1.58	1.64	1.70	1.76	1.79	1.81	1.82	1.82	1.78	
			Sones	25	24	23	23	22	21	21	20	19.2	
		1685	CFM	4495	4369	4226	4085	3945	3768	3575	3325	3061	2766
			BHP	1.79	1.86	1.93	1.99	2.04	2.07	2.08	2.09	2.08	2.04
			Sones	27	26	25	26	24	23	22	21	21	20

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-200



CWB

Damper Size = 17 x 17 (432 x 432)

Damper Frame Size = 19 x 19 (483 x 483)

Wall Opening = 17 1/2 x 17 1/2 (445 x 445)

Windband Thickness = 0.051 (1.3)

Motor Cover Thickness = 0.040 (1.0)

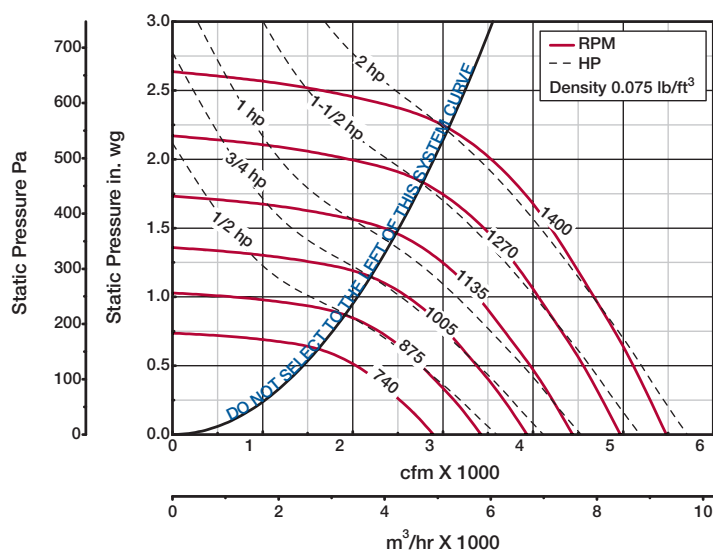
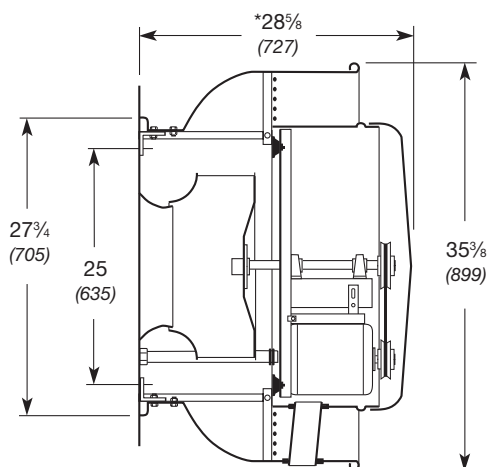
^Approximate Unit Weight = 142 lb (64 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	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	
CWB- 200-4	1/4	500	CFM	2812	2386	1822		MAXIMUM BHP AT A GIVEN RPM = (RPM/946) ³ MAXIMUM RPM = 1210 TIP SPEED (ft/min) = RPM x 5.595 MAXIMUM MOTOR FRAME SIZE = 184T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/2.92						
			BHP	0.14	0.15	0.15								
			Sones	6.2	5.4	4.6								
		605	CFM	3403	3054	2675	2144							
			BHP	0.25	0.26	0.26	0.25							
			Sones	8.1	7.4	6.7	6.1							
CWB- 200-3	1/3	665	CFM	3740	3422	3096	2699	2073						
			BHP	0.33	0.34	0.35	0.35	0.33						
			Sones	9.4	8.8	8.1	7.5	7.0						
CWB- 200-5	1/2	760	CFM	4275	3994	3718	3413	3048						
			BHP	0.49	0.51	0.52	0.52	0.51						
			Sones	12.1	11.7	10.9	10.1	9.4						
CWB- 200-7	3/4	820	CFM	4612	4350	4098	3828	3523	2606					
			BHP	0.61	0.63	0.65	0.65	0.65	0.61					
			Sones	14.1	14.1	13.0	12.2	11.4	10.7					
		875	CFM	4922	4676	4439	4192	3922	3240					
			BHP	0.75	0.77	0.78	0.79	0.79	0.78					
			Sones	16.3	16.3	15.2	14.7	13.5	12.4					
CWB- 200-10	1	960	CFM	5400	5176	4958	4742	4508	3985	3169				
			BHP	0.98	1.01	1.03	1.04	1.04	1.04	1.00				
			Sones	18.7	18.4	17.7	17.0	16.4	15.0	14.4				
CWB- 200-15	1½	1030	CFM	5793	5585	5380	5179	4968	4503	3917	2972			
			BHP	1.22	1.24	1.26	1.28	1.29	1.29	1.27	1.18			
			Sones	21	21	20	19.2	18.7	17.5	16.4	16.8			
		1100	CFM	6187	5992	5798	5610	5421	5006	4529	3861			
			BHP	1.48	1.51	1.53	1.55	1.57	1.57	1.57	1.53			
			Sones	23	23	23	22	21	20	19.3	18.6			
CWB- 200-20	2	1155	CFM	6496	6311	6125	5946	5767	5383	4948	4410	3629		
			BHP	1.72	1.74	1.77	1.79	1.81	1.81	1.81	1.80	1.71		
			Sones	24	24	23	23	22	21	20	19.2	19.9		
		1210	CFM	6806	6628	6451	6279	6108	5748	5350	4892	4289	3365	
			BHP	1.97	2.00	2.03	2.05	2.07	2.09	2.09	2.08	2.04	1.88	
			Sones	25	24	23	23	22	21	21	19.8	19.7	21	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-200HP



CWB

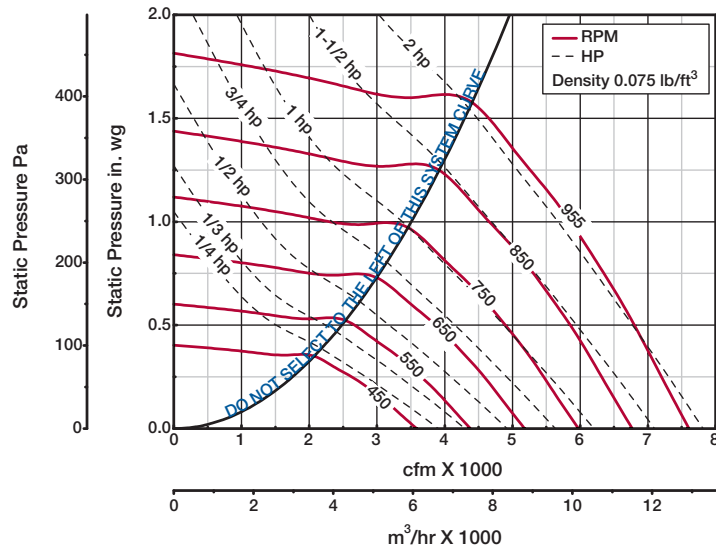
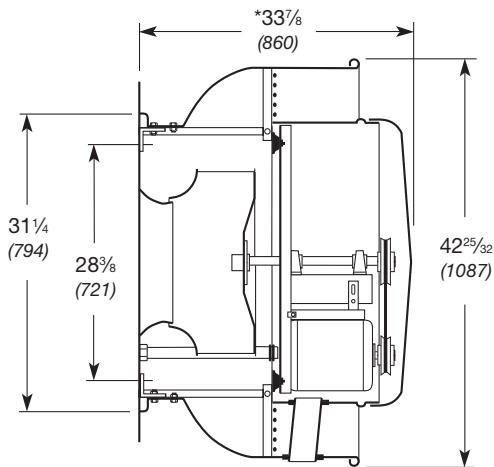
Damper Size = 17 x 17 (432 x 432)
 Damper Frame Size = 19 x 19 (483 x 483)
 Wall Opening = 17½ x 17½ (445 x 445)
 Windband Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 ^Approximate Unit Weight = 142 lb (64 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg										
				0.5	0.625	0.75	0.875	1	1.25	1.5	1.625	1.75	2	
CWB- 200HP-5	1/2	740	CFM	2024				MAXIMUM BHP AT A GIVEN RPM = (RPM/1093) ³ MAXIMUM RPM = 1400 TIP SPEED (ft/min) = RPM x 5.595 MAXIMUM MOTOR FRAME SIZE = 184T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/2.92						
			BHP	0.31										
			Sones	8.1										
		810	CFM	2431	2156									
			BHP	0.40	0.41									
			Sones	9.3	8.7									
		880	CFM	2779	2578	2317	1922							
			BHP	0.51	0.52	0.52	0.50							
			Sones	10.5	10.1	9.5	8.7							
CWB- 200HP-7	3/4	945	CFM	3094	2915	2711	2468	2092						
			BHP	0.62	0.64	0.64	0.64	0.62						
			Sones	12.2	11.8	11.5	11.1	10.6						
		1010	CFM	3397	3235	3067	2865	2637						
			BHP	0.75	0.77	0.78	0.79	0.79						
			Sones	14.5	14.1	13.7	13.5	13.2						
CWB- 200HP-10	1	1060	CFM	3625	3476	3316	3157	2944	2370					
			BHP	0.86	0.88	0.89	0.91	0.91	0.88					
			Sones	16.0	15.7	15.3	15.1	14.9	14.6					
		1110	CFM	3851	3710	3561	3409	3242	2806					
			BHP	0.98	1.00	1.02	1.03	1.04	1.04					
			Sones	16.9	16.5	16.2	15.9	15.7	15.5					
CWB- 200HP-15	1½	1190	CFM	4207	4075	3944	3803	3661	3321	2850				
			BHP	1.20	1.22	1.24	1.25	1.27	1.29	1.26				
			Sones	19.0	18.5	18.1	17.7	17.5	17.3	17.5				
		1270	CFM	4558	4435	4312	4188	4055	3789	3433	3237	2944		
			BHP	1.44	1.47	1.49	1.51	1.53	1.56	1.56	1.56	1.53		
			Sones	22	21	21	20	20	19.7	19.3	19.4	19.8		
CWB- 200HP-20	2	1335	CFM	4837	4724	4606	4489	4369	4116	3826	3654	3482	2946	
			BHP	1.67	1.69	1.71	1.74	1.76	1.79	1.82	1.82	1.82	1.75	
			Sones	23	23	23	22	22	21	21	21	21	22	
		1400	CFM	5110	5009	4898	4786	4674	4436	4195	4044	3880	3515	
			BHP	1.91	1.94	1.96	1.98	2.01	2.05	2.09	2.09	2.09	2.08	
			Sones	24	24	24	24	24	23	21	22	22	23	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-220



CWB

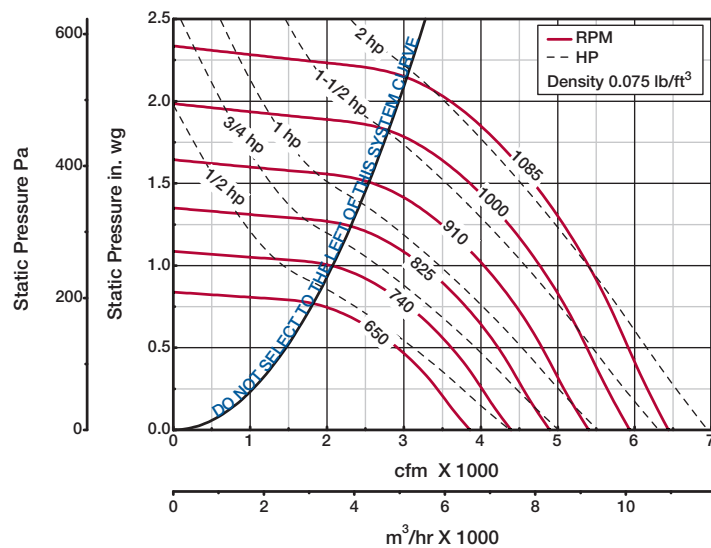
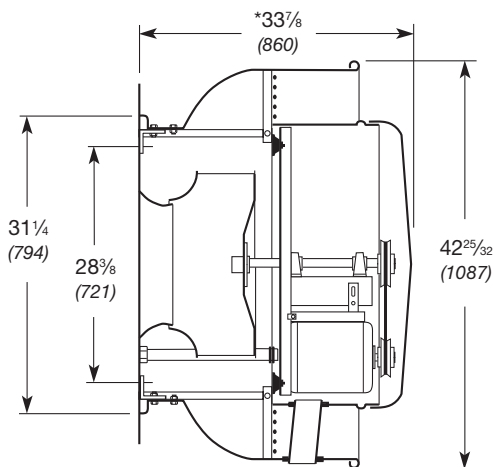
Damper Size = 20 x 20 (508 x 508)
Damper Frame Size = 22 x 22 (559 x 559)
Wall Opening = 20½ x 20½ (521 x 521)
Windband Thickness = 0.064 (1.6)
Motor Cover Thickness = 0.051 (1.3)
^Approximate Unit Weight = 174 lb (79 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	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
CWB- 220-4	1/4	450	CFM	3585	3155	2624							
			BHP	0.19	0.21	0.22							
			Sones	7.3	6.6	6.0							
		475	CFM	3784	3377	2896	2268						
			BHP	0.23	0.25	0.26	0.25						
			Sones	7.9	7.2	6.5	6.1						
CWB- 220-3	1/3	520	CFM	4142	3771	3357	2845						
			BHP	0.30	0.32	0.34	0.34						
			Sones	9.3	8.4	7.6	7.1						
CWB- 220-5	1/2	600	CFM	4779	4457	4124	3736	3279					
			BHP	0.46	0.48	0.51	0.52	0.52					
			Sones	12.0	11.0	10.0	9.3	8.8					
CWB- 220-7	3/4	645	CFM	5138	4838	4539	4194	3811	3346				
			BHP	0.57	0.60	0.63	0.64	0.65	0.64				
			Sones	13.4	12.6	11.8	11.1	10.4	9.9				
		685	CFM	5457	5174	4893	4581	4234	3836	3383			
			BHP	0.68	0.71	0.74	0.76	0.78	0.78	0.77			
			Sones	14.8	14.0	13.4	12.9	12.1	11.6	11.1			
CWB- 220-10	1	755	CFM	6014	5758	5502	5239	4944	4620	4258			
			BHP	0.91	0.94	0.98	1.01	1.03	1.04	1.04			
			Sones	17.3	16.7	16.3	16.0	15.5	14.8	14.3			
CWB- 220-15	1½	810	CFM	6452	6213	5975	5737	5470	5185	4883	4156		
			BHP	1.13	1.16	1.20	1.24	1.26	1.28	1.29	1.27		
			Sones	18.7	18.1	17.7	17.3	16.9	16.2	15.6	14.7		
		865	CFM	6890	6667	6443	6220	5987	5729	5453	4835	4111	
			BHP	1.37	1.41	1.45	1.49	1.52	1.54	1.56	1.57	1.53	
			Sones	20	19.9	19.3	18.9	18.5	17.8	17.2	16.3	15.9	
CWB- 220-20	2	910	CFM	7249	7036	6823	6612	6400	6158	5909	5365	4704	
			BHP	1.60	1.64	1.68	1.72	1.76	1.78	1.81	1.83	1.81	
			Sones	23	22	22	21	21	19.9	19.1	18.0	17.1	
		955	CFM	7607	7405	7202	7000	6799	6580	6347	5844	5261	4602
			BHP	1.85	1.89	1.93	1.97	2.02	2.05	2.07	2.11	2.11	2.07
			Sones	25	25	24	24	23	23	22	20	19.0	18.6

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-220HP



CWB

Damper Size = 20 x 20 (508 x 508)

Damper Frame Size = 22 x 22 (559 x 559)

Wall Opening = 20 1/2 x 20 1/2 (521 x 521)

Windband Thickness = 0.064 (1.6)

Motor Cover Thickness = 0.051 (1.3)

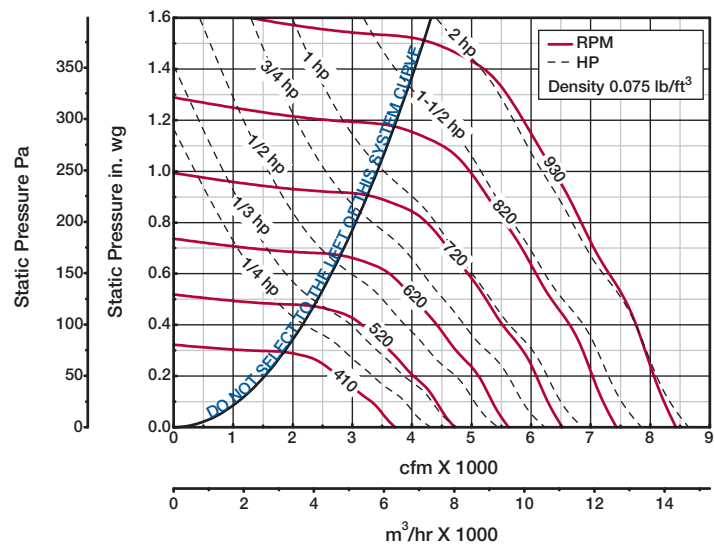
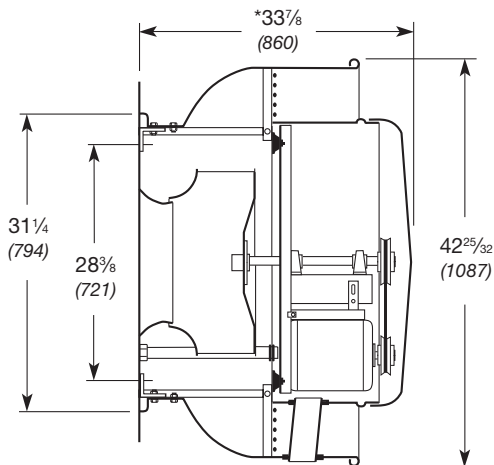
^Approximate Unit Weight = 174 lb (79 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg										
				0.5	0.625	0.75	0.875	1	1.25	1.5	1.625	1.75	2	
CWB- 220HP-5	1/2	650	CFM	2909	2534	1940		MAXIMUM BHP AT A GIVEN RPM = (RPM/847) ³ MAXIMUM RPM = 1085 TIP SPEED (ft/min) = RPM x 6.413 MAXIMUM MOTOR FRAME SIZE = 184T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/3.76						
			BHP	0.45	0.45	0.42								
			Sones	8.6	7.9	7.5								
		680	CFM	3151	2830	2405								
			BHP	0.51	0.52	0.51								
		Sones	9.6	9.0	8.6									
CWB- 220HP-7	3/4	730	CFM	3545	3279	2958	2545							
			BHP	0.62	0.64	0.64	0.63							
			Sones	11.5	10.9	10.6	10.3							
		780	CFM	3902	3680	3427	3114	2716						
			BHP	0.74	0.76	0.78	0.78	0.77						
			Sones	13.2	12.6	12.2	12.1	11.9						
CWB- 220HP-10	1	820	CFM	4182	3992	3757	3493	3181						
			BHP	0.85	0.88	0.90	0.91	0.90						
			Sones	13.8	13.4	13.1	12.9	12.7						
		860	CFM	4459	4277	4075	3850	3578	2863					
			BHP	0.96	1.00	1.02	1.04	1.05	1.01					
			Sones	14.8	14.2	14.1	13.9	13.7	12.9					
CWB- 220HP-15	1½	902	CFM	4743	4573	4400	4188	3969	3386					
			BHP	1.10	1.13	1.17	1.19	1.20	1.20					
			Sones	16.1	15.5	15.1	15.0	14.9	14.2					
		944	CFM	5016	4865	4699	4521	4315	3834	3169				
			BHP	1.24	1.28	1.32	1.35	1.37	1.38	1.34				
			Sones	17.4	16.8	16.2	16.2	16.1	15.6	14.6				
985	CFM	5281	5146	4988	4829	4642	4220	3674	3340	2825				
	BHP	1.39	1.44	1.48	1.51	1.54	1.57	1.56	1.53	1.46				
	Sones	18.8	18.3	17.6	17.3	17.2	16.9	16.2	15.5	14.6				
CWB- 220HP-20	2	1035	CFM	5602	5476	5335	5184	5033	4659	4209	3937	3630		
			BHP	1.60	1.65	1.69	1.73	1.77	1.81	1.82	1.81	1.79		
			Sones	21	20	19.5	18.7	18.6	18.5	18.1	17.7	17.0		
		1085	CFM	5920	5800	5678	5534	5390	5061	4679	4454	4210	3573	
			BHP	1.82	1.87	1.92	1.96	2.00	2.06	2.10	2.10	2.09	2.03	
			Sones	23	22	21	21	20	20	19.8	19.6	19.3	17.8	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-240



CWB

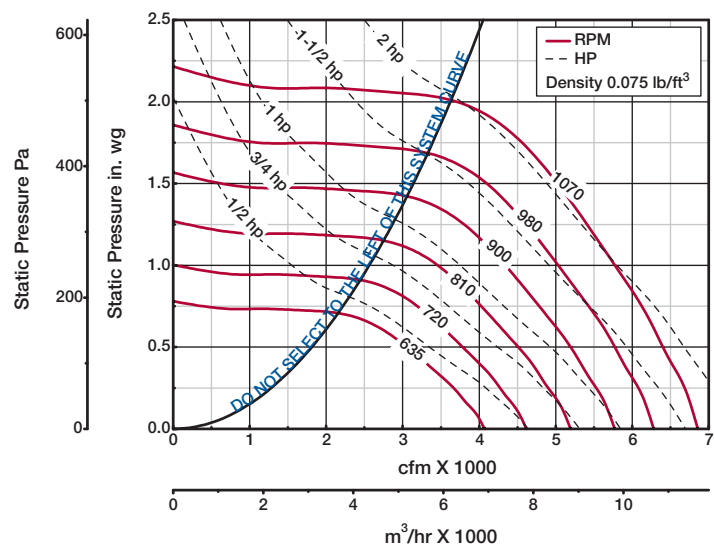
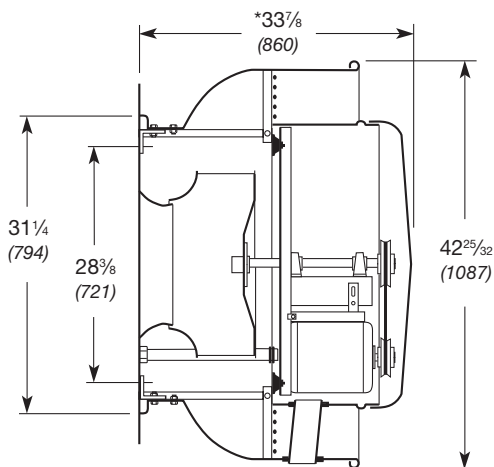
Damper Size = 20 x 20 (508 x 508)
Damper Frame Size = 22 x 22 (559 x 559)
Wall Opening = 20½ x 20½ (521 x 521)
Windband Thickness = 0.064 (1.6)
Motor Cover Thickness = 0.051 (1.3)
^Approximate Unit Weight = 175 lb (79 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	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	
CWB- 240-4	1/4	410	CFM	3717	3170	2471		MAXIMUM BHP AT A GIVEN RPM = (RPM/725) ³ MAXIMUM RPM = 930 TIP SPEED (ft/min) = RPM x 6.413 MAXIMUM MOTOR FRAME SIZE = 184T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/3.76						
			BHP	0.16	0.18	0.18								
			Sones	6.4	5.8	5.3								
		465	CFM	4216	3768	3188	2162							
			BHP	0.23	0.25	0.26	0.23							
			Sones	7.6	7.0	6.3	5.9							
CWB- 240-3	1/3	510	CFM	4623	4243	3717	3134							
			BHP	0.31	0.33	0.34	0.34							
			Sones	8.9	8.1	7.3	6.9							
CWB- 240-5	1/2	585	CFM	5303	4961	4540	4093	3565						
			BHP	0.46	0.49	0.51	0.52	0.51						
			Sones	11.5	10.5	9.5	8.8	8.4						
CWB- 240-7	3/4	628	CFM	5693	5368	5010	4590	4141	3600					
			BHP	0.57	0.61	0.63	0.64	0.65	0.63					
			Sones	12.9	11.9	11.1	10.4	9.8	9.4					
		670	CFM	6074	5763	5461	5052	4659	4202	3524				
			BHP	0.69	0.74	0.76	0.78	0.79	0.78	0.73				
			Sones	14.3	13.4	12.8	12.2	11.5	11.0	10.6				
CWB- 240-10	1	735	CFM	6663	6370	6133	5764	5409	5037	4618				
			BHP	0.92	0.97	0.99	1.01	1.03	1.04	1.03				
			Sones	16.6	15.9	15.5	15.1	14.6	13.9	13.4				
		790	CFM	7162	6883	6661	6361	6011	5693	5332	4453			
			BHP	1.14	1.20	1.22	1.25	1.27	1.28	1.29	1.24			
			Sones	18.2	17.5	17.2	16.8	16.3	15.7	15.0	14.3			
CWB- 240-15	1½	845	CFM	7660	7400	7184	6947	6615	6304	6002	5282			
			BHP	1.39	1.46	1.49	1.51	1.54	1.56	1.57	1.56			
			Sones	19.6	19.0	18.6	18.2	17.6	17.0	16.4	15.4			
CWB- 240-20	2	888	CFM	8050	7802	7590	7394	7083	6772	6489	5854	5088		
			BHP	1.62	1.69	1.72	1.75	1.78	1.81	1.82	1.83	1.77		
			Sones	21	21	21	20	19.5	18.7	18.0	17.0	16.4		
		930	CFM	8431	8194	7985	7798	7536	7233	6953	6375	5706	4324	
			BHP	1.86	1.93	1.98	2.00	2.03	2.06	2.08	2.10	2.07	1.83	
			Sones	24	23	23	22	22	21	19.9	18.7	17.8	17.9	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-240HP



CWB

Damper Size = 20 x 20 (508 x 508)

Damper Frame Size = 22 x 22 (559 x 559)

Wall Opening = 20½ x 20½ (521 x 521)

Windband Thickness = 0.064 (1.6)

Motor Cover Thickness = 0.051 (1.3)

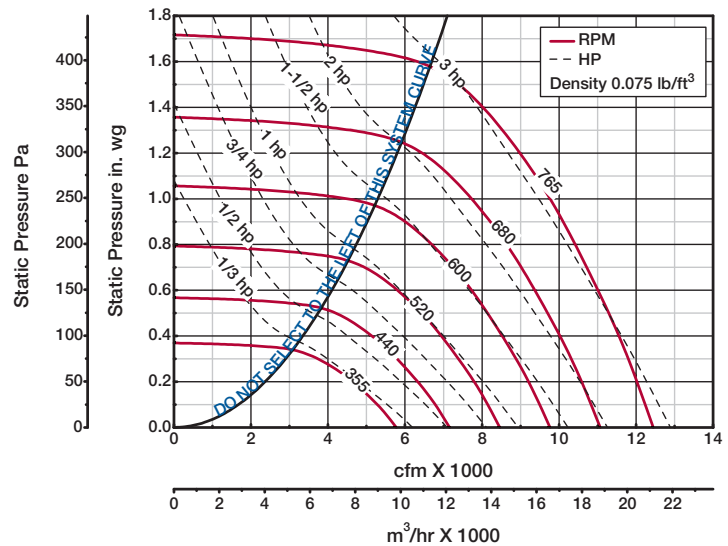
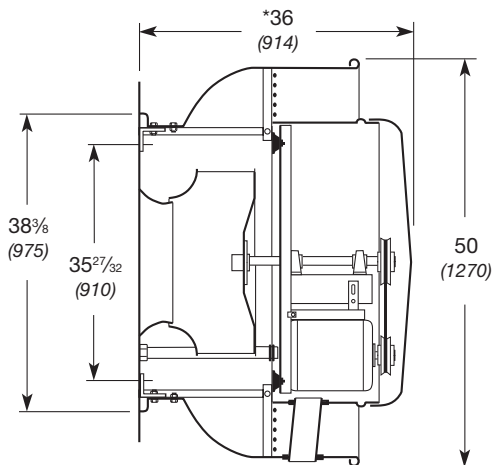
^Approximate Unit Weight = 175 lb (79 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0.5	0.625	0.75	0.875	1	1.25	1.5	1.625	1.75	2
CWB-240HP-5	1/2	635	CFM	3046	2673								
			BHP	0.43	0.43								
			Sones	8.1	7.4								
		675	CFM	3405	3070	2607							
			BHP	0.51	0.52	0.51							
			Sones	9.4	8.8	8.4							
CWB- 240HP-7	3/4	725	CFM	3824	3547	3222	2751						
			BHP	0.62	0.64	0.65	0.63						
			Sones	11.3	10.7	10.3	10.1						
		775	CFM	4233	3979	3704	3400	2940					
			BHP	0.75	0.77	0.78	0.79	0.77					
			Sones	13.1	12.5	12.1	12.0	11.8					
CWB- 240HP-10	1	813	CFM	4529	4295	4054	3771	3481					
			BHP	0.85	0.88	0.90	0.91	0.91					
			Sones	13.7	13.2	13.0	12.7	12.5					
		850	CFM	4812	4599	4367	4123	3846	3025				
			BHP	0.96	0.99	1.01	1.03	1.04	1.00				
			Sones	14.5	14.0	13.8	13.7	13.4	12.6				
CWB- 240HP-15	1½	892	CFM	5129	4932	4717	4497	4250	3687				
			BHP	1.09	1.13	1.16	1.18	1.20	1.20				
			Sones	15.7	15.1	14.9	14.8	14.6	14.0				
		934	CFM	5443	5255	5061	4850	4640	4140	3359			
			BHP	1.23	1.28	1.31	1.34	1.37	1.38	1.33			
			Sones	17.1	16.5	16.0	15.9	15.8	15.3	14.2			
CWB- 240HP-20	2	975	CFM	5737	5567	5387	5190	4988	4539	4006	3542		
			BHP	1.39	1.43	1.48	1.51	1.53	1.56	1.56	1.52		
			Sones	18.4	17.9	17.3	17.0	16.9	16.6	15.9	15.0		
		1023	CFM	6075	5927	5756	5581	5389	4995	4533	4296	3854	
			BHP	1.59	1.63	1.68	1.72	1.75	1.80	1.81	1.82	1.77	
			Sones	20	19.6	19.0	18.3	18.3	18.1	17.7	17.3	16.4	
		1070	CFM	6404	6272	6112	5949	5775	5407	4990	4770	4550	3625
			BHP	1.80	1.84	1.89	1.94	1.98	2.04	2.07	2.07	2.08	1.95
			Sones	22	22	21	20	19.7	19.7	19.4	19.1	18.8	16.6

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-300



CWB

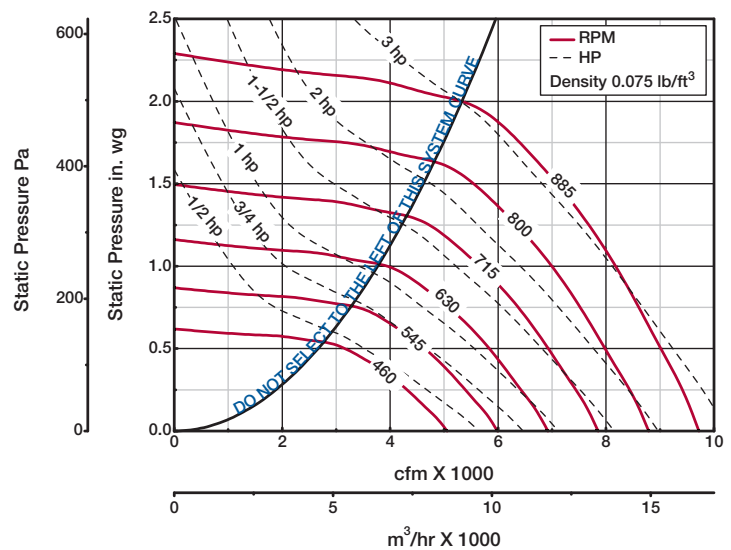
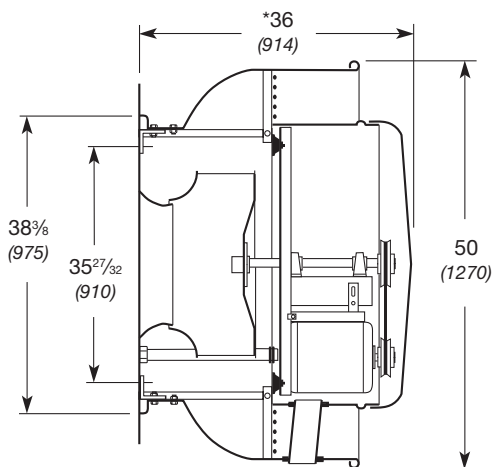
Damper Size = 25 x 25 (635 x 635)
Damper Frame Size = 27 x 27 (686 x 686)
Wall Opening = 25½ x 25½ (648 x 648)
Windband Thickness = 0.064 (1.6)
Motor Cover Thickness = 0.051 (1.3)
^Approximate Unit Weight = 313 lb (142 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	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	
CWB-300-3	1/3	355	CFM	5777	5132	4227		MAXIMUM BHP AT A GIVEN RPM = (RPM/522) ³ MAXIMUM RPM = 765 TIP SPEED (ft/min) = RPM x 7.983 MAXIMUM MOTOR FRAME SIZE = 213T AVERAGE DISCHARGE VELOCITY (FPM) = CFM/5.50						
			BHP	0.27	0.30	0.31								
			Sones	6.9	6.3	5.3								
		365	CFM	5940	5316	4464								
			BHP	0.29	0.33	0.34								
			Sones	7.2	6.5	5.7								
CWB-300-5	1/2	420	CFM	6835	6314	5660	4820							
			BHP	0.45	0.49	0.52	0.52							
			Sones	9.0	8.2	7.5	6.9							
CWB-300-7	3/4	480	CFM	7811	7377	6844	6231	5440						
			BHP	0.67	0.72	0.76	0.78	0.77						
			Sones	11.0	10.5	9.9	9.3	8.5						
CWB-300-10	1	530	CFM	8625	8231	7772	7245	6636	5879					
			BHP	0.90	0.95	1.00	1.03	1.05	1.04					
			Sones	13.3	12.7	12.2	11.7	11.2	10.2					
CWB-300-15	1½	568	CFM	9243	8876	8463	7996	7477	6842	6052				
			BHP	1.11	1.17	1.22	1.26	1.28	1.29	1.26				
			Sones	15.2	14.6	14.0	13.6	13.2	12.4	11.5				
		605	CFM	9845	9501	9127	8705	8226	7708	7084				
			BHP	1.34	1.40	1.46	1.51	1.54	1.56	1.55				
			Sones	17.0	16.4	15.7	15.2	14.8	14.3	13.5				
CWB-300-20	2	635	CFM	10334	10005	9662	9259	8823	8359	7798	6334			
			BHP	1.55	1.61	1.68	1.73	1.77	1.79	1.80	1.72			
			Sones	18.5	17.9	17.1	16.6	16.1	15.7	15.1	13.4			
		665	CFM	10822	10508	10193	9808	9411	8968	8495	7271			
			BHP	1.77	1.85	1.92	1.97	2.02	2.05	2.07	2.04			
			Sones	20	19.7	18.6	18.0	17.5	17.1	16.7	15.1			
CWB-300-30	3	715	CFM	11635	11344	11052	10713	10356	9963	9551	8572	7241		
			BHP	2.21	2.28	2.36	2.42	2.48	2.52	2.55	2.57	2.47		
			Sones	22	22	21	19.9	19.3	18.9	18.5	17.8	15.8		
		765	CFM	12449	12176	11904	11607	11273	10939	10554	9743	8756	7352	
			BHP	2.70	2.78	2.86	2.94	3.00	3.06	3.09	3.15	3.14	2.98	
			Sones	24	24	23	22	22	21	21	20	18.7	17.0	

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Belt Drive CWB-300HP



CWB

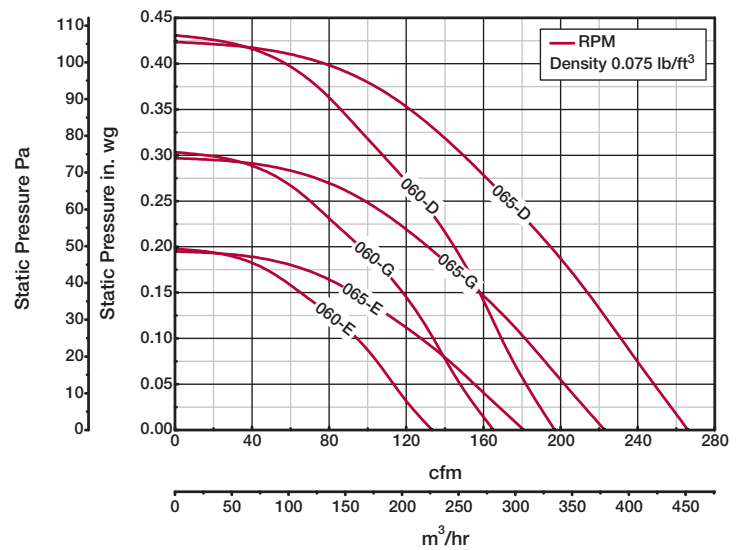
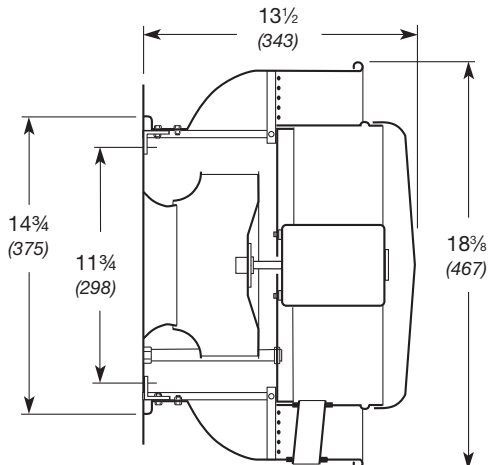
Damper Size = 25 x 25 (635 x 635)
 Damper Frame Size = 27 x 27 (686 x 686)
 Wall Opening = 25½ x 25½ (648 x 648)
 Windband Thickness = 0.064 (1.6)
 Motor Cover Thickness = 0.051 (1.3)
 ^Approximate Unit Weight = 313 lb (142 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0.5	0.625	0.75	0.875	1	1.125	1.25	1.5	1.625	1.75
CWB-300HP-5	1/2	460	CFM	3125									
			BHP	0.44									
			Sones	7.3									
		485	CFM	3639									
			BHP	0.52									
			Sones	7.9									
CWB-300HP-7	3/4	555	CFM	4788	4288	3651							
			BHP	0.77	0.78	0.76							
			Sones	10.4	9.8	9.9							
		583	CFM	5180	4751	4233							
			BHP	0.88	0.90	0.90							
			Sones	11.3	10.8	10.2							
CWB-300HP-10	1	610	CFM	5549	5187	4731	4165						
			BHP	1.00	1.02	1.03	1.02						
			Sones	12.4	11.9	11.3	10.9						
		655	CFM	6154	5835	5470	5046	4513					
			BHP	1.22	1.25	1.27	1.28	1.26					
			Sones	14.3	13.8	13.3	12.7	12.2					
CWB-300HP-15	1½	700	CFM	6741	6448	6149	5787	5390	4896				
			BHP	1.47	1.50	1.53	1.55	1.57	1.55				
			Sones	16.0	15.6	15.2	14.7	14.0	13.5				
		770	CFM	7613	7377	7107	6835	6535	6175	5814	4684		
			BHP	1.91	1.96	2.00	2.03	2.06	2.07	2.09	1.99		
			Sones	18.6	18.3	18.1	17.8	17.4	16.7	16.2	16.0		
CWB-300HP-30	3	809	CFM	8092	7867	7628	7369	7110	6808	6465	5668	5206	
			BHP	2.19	2.25	2.29	2.33	2.37	2.39	2.41	2.39	2.35	
			Sones	20	19.9	19.7	19.6	19.2	18.8	18.1	17.5	17.5	
		848	CFM	8567	8352	8138	7895	7648	7401	7100	6445	6023	5582
			BHP	2.50	2.56	2.61	2.66	2.70	2.74	2.76	2.79	2.76	2.72
			Sones	22	21	21	21	21	21	20	19.1	19.1	19.1
		885	CFM	9014	8808	8603	8387	8150	7914	7678	7062	6748	6353
			BHP	2.83	2.88	2.94	2.99	3.03	3.08	3.12	3.15	3.17	3.14
			Sones	23	23	23	23	23	23	22	21	21	21

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Direct Drive CW-060 and CW- 065



CW

Damper Size = 8 x 8 (203 x 203)

Damper Frame Size = 10 x 10 (254 x 254)

Wall Opening = 20 1/2 x 20 1/2 (521 x 521)

Windband Thickness = 0.051 (1.3)

Motor Cover Thickness = 0.051 (1.3)

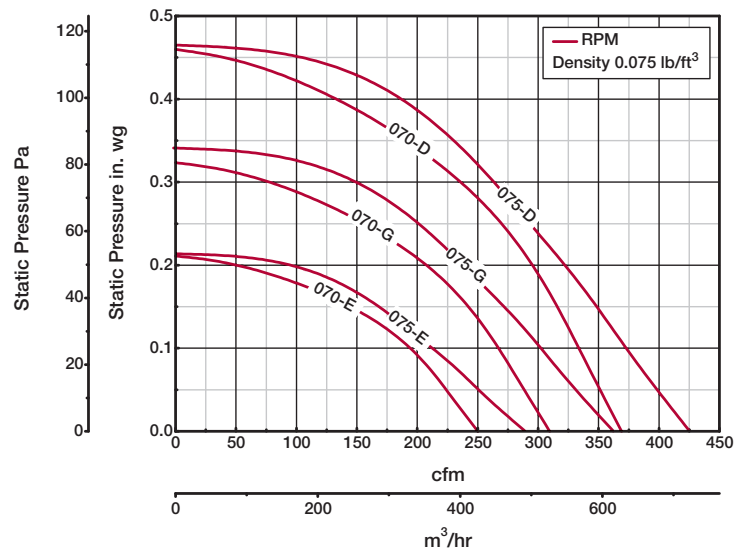
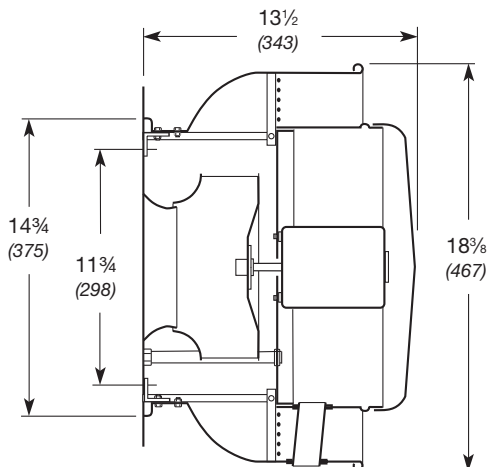
^Approximate Unit Weight = 26 lb (12kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 84.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.05	0.1	0.125	0.15	0.2	0.25	0.3	0.35	0.375
CW-060-E	1/200	1050	CFM	133	113	94	81	65					
			BHP	0.01	0.01	0.01	0.01	0.01					
			Sones	1.7	1.7	1.7	1.7	1.7					
CW-060-G	1/100	1300	CFM	165	148	134	126	117	96	70			
			BHP	0.01	0.01	0.01	0.01	0.01	0.01	0.01			
			Sones	2.8	2.6	2.5	2.5	2.5	2.5	2.5			
CW-060-D	1/60	1550	CFM	197	183	169	164	158	143	128	107	85	
			BHP	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
			Sones	4.2	3.9	3.9	3.9	3.9	4.0	4.0	4.0	4.0	
CW-065-E	1/100	1050	CFM	180	154	126	109	89					
			BHP	0.01	0.01	0.01	0.01	0.01					
			Sones	2.2	2.0	1.9	2.0	2.2					
CW-065-G	1/60	1300	CFM	223	202	181	170	158	129	97			
			BHP	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
			Sones	3.2	3.2	3.1	3.1	3.0	3.0	2.9			
CW-065-D	1/30	1550	CFM	266	249	231	222	214	194	172	145	119	95
			BHP	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
			Sones	4.7	4.2	4.2	4.2	4.2	4.1	4.1	4.0	4.0	3.9

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Direct Drive CW-070 and CW-075



CW

Damper Size = 8 x 8 (203 x 203)

Damper Frame Size = 10 x 10 (254 x 254)

Wall Opening = 8 1/2 x 8 1/2 (216 x 216)

Windband Thickness = 0.051 (1.3)

Motor Cover Thickness = 0.051 (1.3)

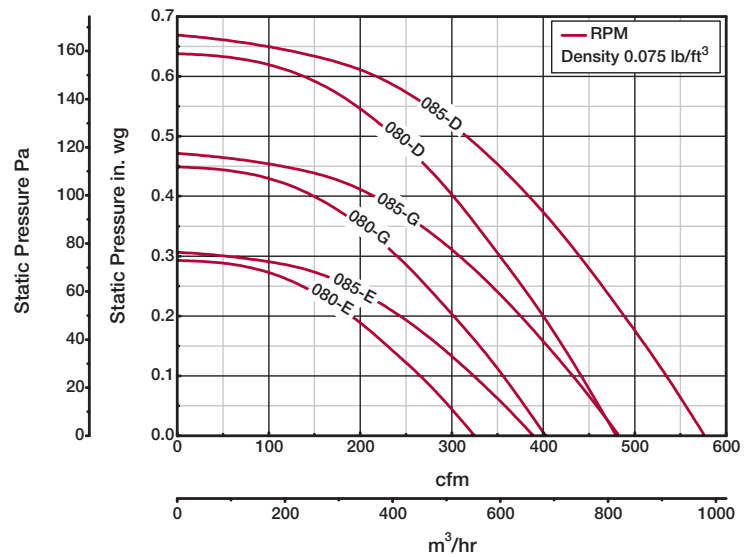
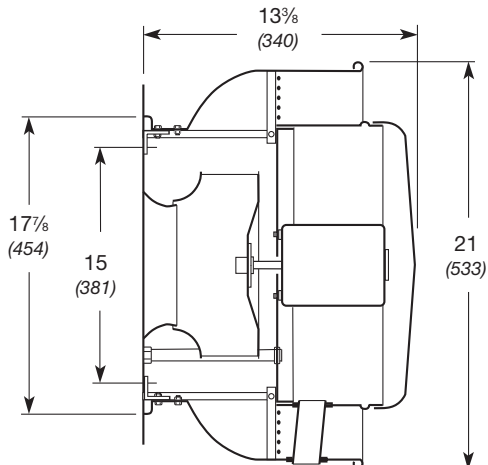
^Approximate Unit Weight = 26 lb (12 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 85.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.05	0.1	0.125	0.15	0.2	0.25	0.3	0.35	0.375
CW-070-E	1/100	1050	CFM	250	224	193	171	143					
			BHP	0.01	0.01	0.01	0.01	0.01					
			Sones	2.6	2.1	1.6	1.4	1.2					
CW-070-G	1/60	1300	CFM	309	288	267	255	241	205	152			
			BHP	0.01	0.01	0.02	0.02	0.02	0.02	0.01			
			Sones	4.0	3.7	3.4	3.3	3.1	2.8	2.4			
CW-070-D	1/30	1550	CFM	369	351	333	325	316	293	269	234	187	160
			BHP	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02
			Sones	5.5	5.4	5.2	5.1	5.1	4.9	4.7	4.4	4.1	3.9
CW-075-E	1/80	1050	CFM	287	249	210	188	165					
			BHP	0.01	0.01	0.01	0.01	0.01					
			Sones	3.4	3.0	2.8	2.7	2.6					
CW-075-G	1/50	1300	CFM	356	324	294	279	262	227	185			
			BHP	0.02	0.02	0.02	0.02	0.02	0.02	0.02			
			Sones	4.0	3.8	3.7	3.7	3.7	3.6	3.4			
CW-075-D	1/25	1550	CFM	424	398	372	359	347	320	291	261	225	204
			BHP	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
			Sones	6.0	5.7	5.4	5.3	5.1	5.0	4.9	4.8	4.8	4.8

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Direct Drive CW-080 and CW-085



CW

Damper Size = 10 x 10 (254 x 254)

Damper Frame Size = 12 x 12 (305 x 305)

Wall Opening = 10½ x 10½ (267 x 267)

Windband Thickness = 0.051 (1.3)

Motor Cover Thickness = 0.051 (1.3)

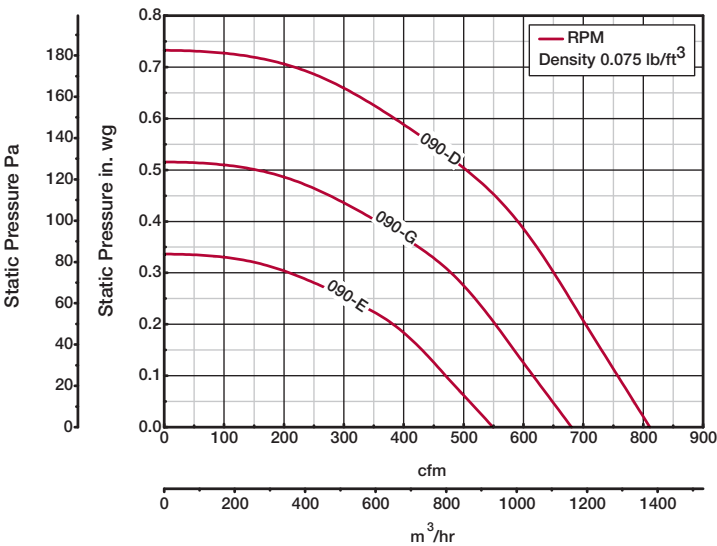
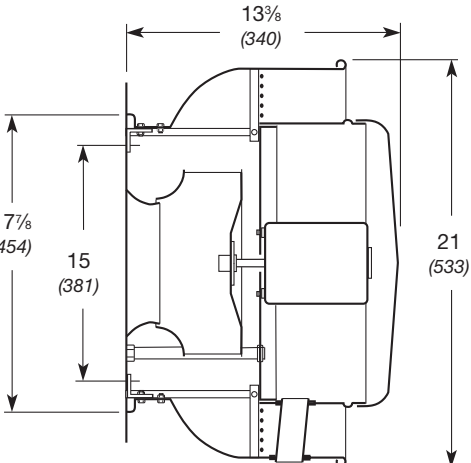
^Approximate Unit Weight = 40 lb (18 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 85.

Model Size	Motor HP	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
CW-080-E	1/40	1050	CFM	325	265	247	230	189	133				
			BHP	0.01	0.01	0.02	0.02	0.02	0.02				
			Sones	3.8	3.7	3.6	3.7	3.9	4.2				
CW-080-G	1/30	1300	CFM	403	356	343	330	302	272	239	173		
			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		
CW-080-D	1/20	1550	CFM	480	441	431	421	400	376	352	314	235	
			BHP	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	
			Sones	7.3	7.3	7.3	7.3	7.3	7.2	7.3	7.3	7.6	
CW-085-E	1/40	1050	CFM	389	323	305	286	242	182				
			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				
CW-085-G	1/30	1300	CFM	481	430	416	402	373	340	305	235		
			BHP	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04		
			Sones	5.4	5.3	5.3	5.3	5.3	5.3	5.4	5.5		
CW-085-D	1/20	1550	CFM	574	532	520	509	486	461	437	395	312	161
			BHP	0.04	0.04	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.05
			Sones	7.5	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 do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Direct Drive CW-090



CW

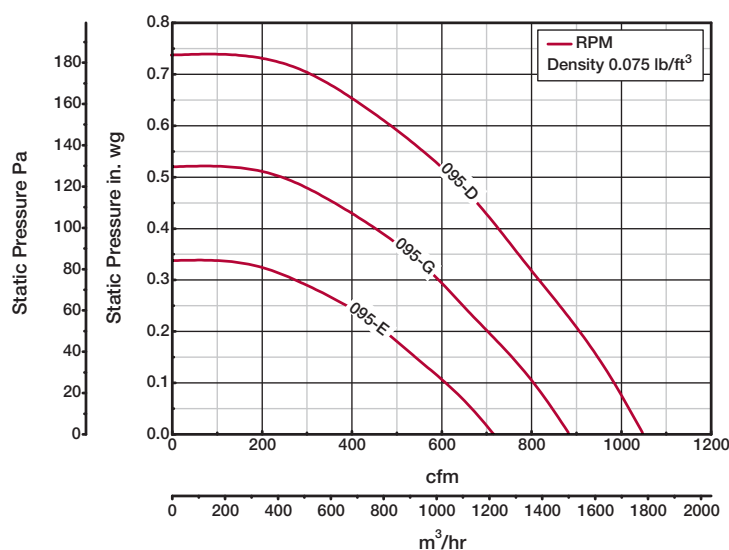
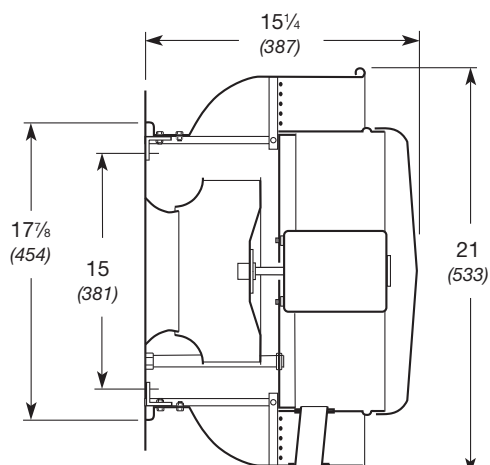
Damper Size = 10 x 10 (254 x 254)
 Damper Frame Size = 12 x 12 (305 x 305)
 Wall Opening = 10½ x 10½ (267 x 267)
 Windband Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.051 (1.3)
 ^Approximate Unit Weight = 40 lb (18 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 85.

Model Size	Motor HP	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
CW-090-E	1/40	1050	CFM	549	470	451	429	381	306	204			
			BHP	0.02	0.02	0.02	0.03	0.03	0.03	0.03			
			Sones	4.1	3.9	3.9	3.9	4.0	4.2	4.5			
CW-090-G	1/25	1300	CFM	680	616	600	584	553	517	479	391		
			BHP	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05		
			Sones	5.5	5.4	5.4	5.4	5.4	5.4	5.5	5.6		
CW-090-D	1/15	1550	CFM	811	757	744	731	704	677	651	604	501	347
			BHP	0.06	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.08
			Sones	7.8	7.6	7.6	7.5	7.5	7.5	7.5	7.4	7.4	7.8

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Direct Drive CW-095



CW

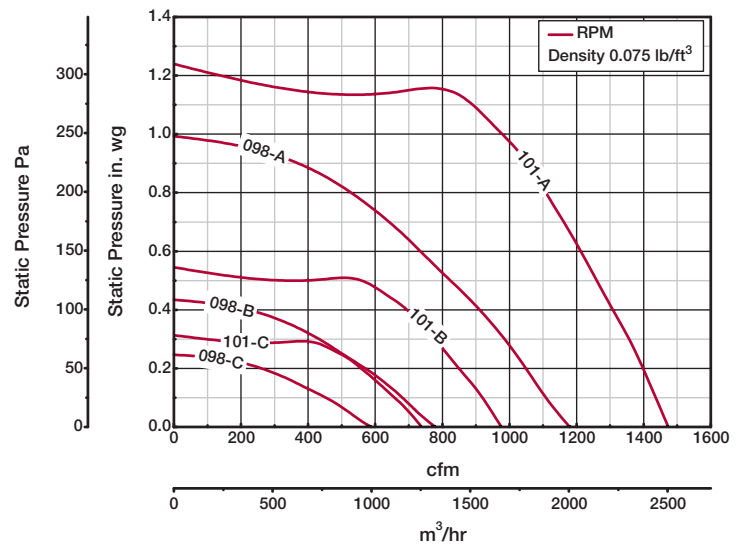
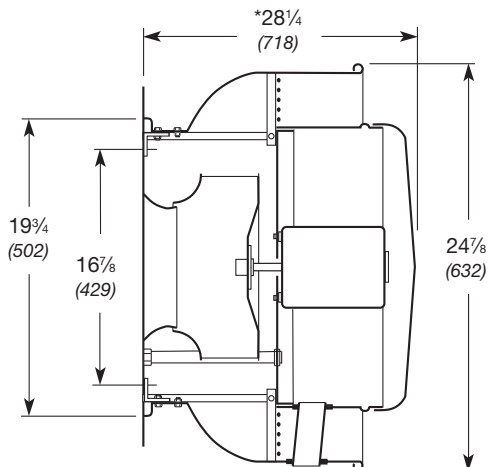
Damper Size = 10 x 10 (254 x 254)
 Damper Frame Size = 12 x 12 (305 x 305)
 Wall Opening = $10\frac{1}{2}$ x $10\frac{1}{2}$ (267 x 267)
 Windband Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.051 (1.3)
 ^Approximate Unit Weight = 40 lb (18 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 85.

Model Size	Motor HP	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
CW-095-E	1/30	1050	CFM	711	603	570	536	468	381	265			
			BHP	0.03	0.04	0.04	0.04	0.04	0.04	0.03			
			Sones	5.3	4.5	4.5	4.5	4.4	4.5	4.6			
CW-095-G	1/12	1300	CFM	880	797	774	750	696	641	587	484	199	
			BHP	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.05	
			Sones	7.5	6.8	6.7	6.6	6.5	6.4	6.4	6.4	6.8	
CW-095-D	1/8	1550	CFM	1049	983	964	944	905	861	816	747	616	442
			BHP	0.10	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.11
			Sones	9.6	9.3	9.3	9.2	8.8	8.5	8.4	8.3	8.1	7.8

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Direct Drive CW-098 and CW-101



CW

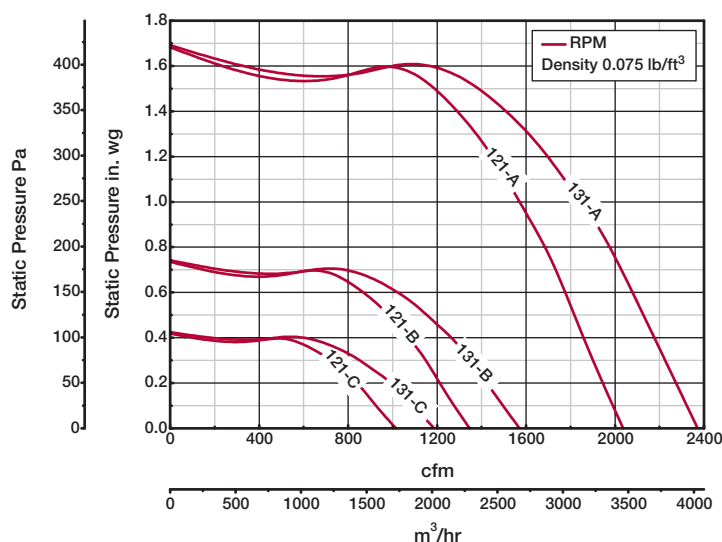
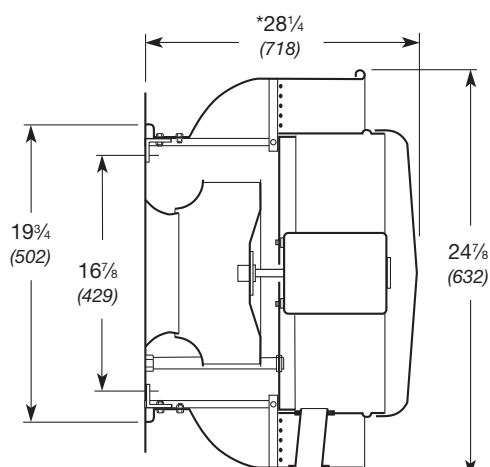
Damper Size = 12 x 12 (305 x 305)
 Damper Frame Size = 14 x 14 (356 x 356)
 Wall Opening = 12½ x 12½ (318 x 318)
 Windband Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 ^Approximate Unit Weight = 53 lb (24 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 85.

Model Size	Motor HP	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
CW-098-C	1/8	860	CFM	588	453	409							
			BHP	0.02	0.02	0.02							
			Sones	8.4	8.5	8.7							
CW-098-B	1/6	1140	CFM	780	682	656	502	431	294				
			BHP	0.05	0.05	0.06	0.06	0.06	0.06				
			Sones	9.1	8.7	8.7	8.3	8.1	7.9				
CW-098-A	1/4	1725	CFM	1180	1109	1094	1017	984	929	824	712	586	
			BHP	0.18	0.18	0.18	0.18	0.19	0.20	0.20	0.20	0.20	
			Sones	13.8	13.5	13.4	13.0	12.9	12.7	12.2	12.1	12.3	
CW-101-C	1/8	860	CFM	732	649	625	481						
			BHP	0.03	0.03	0.04	0.04						
			Sones	4.6	8.5	11.7	111						
CW-101-B	1/6	1140	CFM	970	913	897	806	768	707				
			BHP	0.07	0.08	0.08	0.08	0.09	0.09				
			Sones	7.2	7.0	7.0	6.5	6.2	6.0				
CW-101-A	1/4	1725	CFM	1468	1431	1422	1373	1350	1315	1255	1195	1129	970
			BHP	0.24	0.25	0.26	0.27	0.27	0.28	0.29	0.29	0.29	0.29
			Sones	13.3	12.9	12.9	12.5	12.3	12.0	11.7	11.3	10.8	9.7

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Direct Drive CW-121 and CW-131



CW

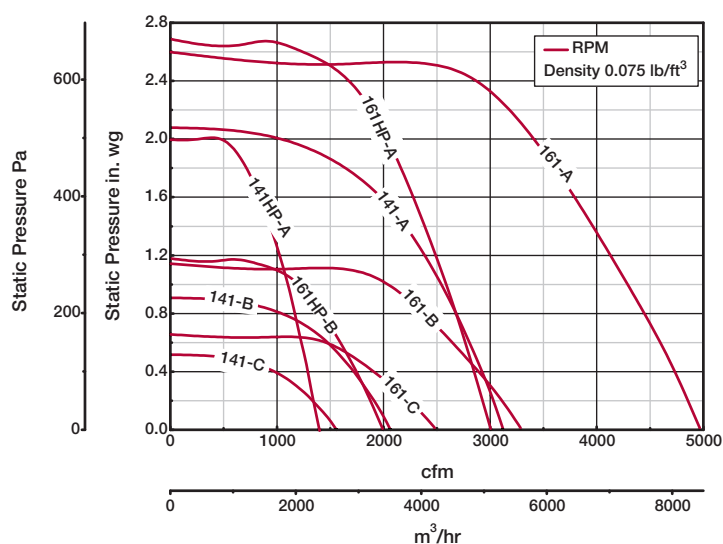
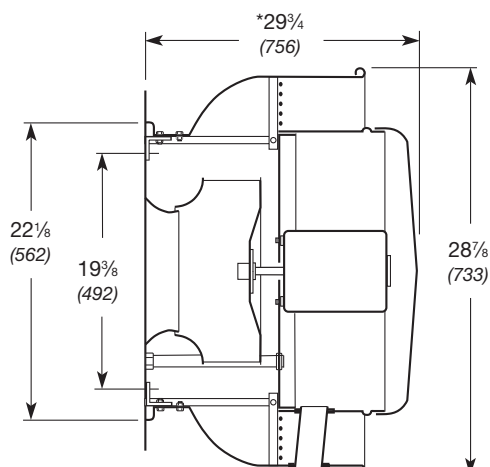
Damper Size = 12 x 12 (305 x 305)
Damper Frame Size = 14 x 14 (356 x 356)
Wall Opening = 12½ x 12½ (318 x 318)
Windband Thickness = 0.051 (1.3)
Motor Cover Thickness = 0.040 (1.0)
^Approximate Unit Weight = 53 lb (24 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 85.

Model Size	Motor HP	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
CW-121-C	1/8	860	CFM	1015	905	781	581						
			BHP	0.05	0.05	0.06	0.06						
			Sones	5.3	5.7	5.6	5.7						
CW-121-B	1/6	1140	CFM	1346	1261	1180	1091	981	833				
			BHP	0.11	0.12	0.13	0.13	0.14	0.14				
			Sones	7.4	7.9	8.2	8.2	8.0	8.1				
CW-121-A	1/2	1725	CFM	2037	1979	1923	1869	1816	1763	1710	1571	1406	1176
			BHP	0.39	0.40	0.41	0.43	0.44	0.45	0.46	0.47	0.48	0.46
			Sones	15.6	16.1	16.7	17.3	17.9	18.2	18.4	18.7	18.6	18.4
CW-131-C	1/8	860	CFM	1180	1057	914	675						
			BHP	0.06	0.07	0.07	0.07						
			Sones	8.5	8.3	7.7	6.9						
CW-131-B	1/6	1140	CFM	1564	1471	1379	1280	1144	964				
			BHP	0.14	0.15	0.16	0.17	0.17	0.17				
			Sones	12.5	12.2	11.8	11.2	10.3	9.7				
CW-131-A	3/4	1725	CFM	2366	2305	2244	2183	2122	2061	1994	1838	1646	1365
			BHP	0.50	0.51	0.53	0.54	0.56	0.57	0.58	0.60	0.60	0.57
			Sones	18.8	18.6	18.4	18.2	18.0	17.6	17.2	16.4	15.3	14.1

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Direct Drive CW-141, CW-141HP, CW-161 and CW-161HP



CW

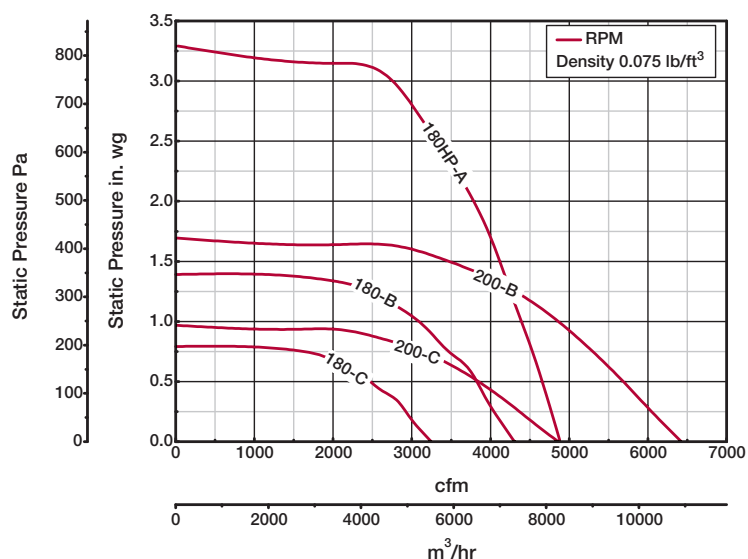
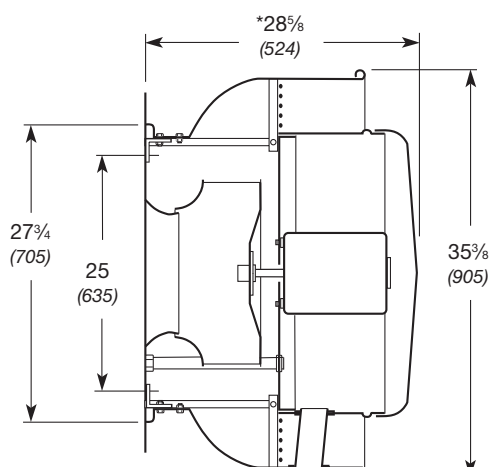
Damper Size = 15 x 15 (381 x 381)
 Damper Frame Size = 17 x 17 (432 x 432)
 Wall Opening = $15\frac{1}{2}$ x $15\frac{1}{2}$ (394 x 394)
 Windband Thickness = 0.051 (1.3)
 Motor Cover Thickness = 0.040 (1.0)
 ^Approximate Unit Weight = 90 lb (41 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 85.

Model Size	Motor HP	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
CW-141-C	1/8	860	CFM	1558	1264								
			BHP	0.11	0.12								
			Sones	7.3	7.1								
CW-141-B	1/4	1140	CFM	2065	1864	1605	1167						
			BHP	0.25	0.27	0.29	0.27						
			Sones	11.3	11.0	10.3	10.0						
CW-141-A	1	1725	CFM	3125	3005	2865	2711	2539	2339	2085	1704		
			BHP	0.87	0.90	0.94	0.97	0.99	1.00	0.98	0.91		
			Sones	26	22	24	15.1	13.4	14.3	13.8	13.8		
CW-141HP-A	1/2	1725	CFM	1394	1324	1256	1178	1098	999	879	747		
			BHP	0.34	0.36	0.38	0.40	0.42	0.43	0.43	0.42		
			Sones	16.6	16.3	16.1	15.4	15.0	14.9	14.7	15.7		
CW-161-C	1/4	860	CFM	2472	2126	1680							
			BHP	0.22	0.25	0.24							
			Sones	10.7	9.9	9.5							
CW-161-B	1/2	1140	CFM	3277	3035	2745	2421	1983					
			BHP	0.51	0.57	0.58	0.57	0.55					
			Sones	15.7	14.8	14.1	13.5	13.2					
CW-161-A	2	1725	CFM	4959	4806	4646	4463	4269	4070	3855	3631	3381	3057
			BHP	1.77	1.88	1.97	1.98	2.00	2.01	1.99	1.97	1.96	1.92
			Sones	30	29	28	27	27	27	26	26	25	25
CW-161HP-B	1/3	1140	CFM	1976	1822	1645	1444	1175					
			BHP	0.26	0.28	0.31	0.32	0.32					
			Sones	13.5	12.8	12.5	11.9	11.1					
CW-161HP-A	1½	1725	CFM	2990	2888	2787	2680	2560	2439	2310	2167	2003	1810
			BHP	0.89	0.93	0.97	1.01	1.04	1.07	1.10	1.11	1.12	1.11
			Sones	24	23	22	22	21	20	20	19.6	18.3	16.6

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Sidewall - Direct Drive CW-180, CW-180HP and CW-200



CW

Damper Size = 17 x 17 (432 x 432)

Damper Frame Size = 19 x 19 (483 x 483)

Wall Opening = 17 1/2 x 17 1/2 (445 x 445)

Windband Thickness = 0.064 (1.6)

Motor Cover Thickness = 0.040 (1.0)

^Approximate Unit Weight = 142 lb (64 kg)

All dimensions in inches (millimeters). *May be greater depending on motor. ^Weight shown is largest cataloged Open Drip-Proof motor. For specification information and image of model, please see page 85.

Model Size	Motor HP	Fan RPM		CFM / Static Pressure in Inches wg									
				0	0.25	0.5	0.75	1	1.25	1.5	2	2.5	3
CW-180-C	1/2	860	CFM	3249	2922	2474							
			BHP	0.34	0.39	0.40							
			Sones	12.3	11.1	10.2							
CW-180-B	1	1140	CFM	4307	4045	3822	3470	3072	2477				
			BHP	0.80	0.86	0.91	0.93	0.92	0.85				
			Sones	17.6	16.5	16.1	15.4	14.6	13.6				
CW-180HP-A	2	1725	CFM	4850	4732	4613	4493	4353	4215	4078	3740	3265	2695
			BHP	1.77	1.84	1.92	1.99	2.06	2.12	2.18	2.23	2.25	2.16
			Sones	30	29	28	27	26	26	25	24	23	21
CW-200-C	3/4	860	CFM	4837	4346	3815	3084						
			BHP	0.71	0.74	0.75	0.73						
			Sones	15.7	14.6	12.9	11.9						
CW-200-B	2	1140	CFM	6412	6036	5674	5283	4837	4276	3445			
			BHP	1.65	1.70	1.74	1.74	1.74	1.73	1.63			
			Sones	24	23	22	21	20	19.2	19.9			

Performance certified is for installation type A: Free inlet, Free outlet. Performance ratings do not include the effects of appurtenances (accessories). 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 sone levels.

Belt Drive Specifications

Model CUBE



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 constructed of heavy-gauge aluminum with a rigid internal support structure. The windband shall be welded to the one-piece curb cap and on all sizes with UL/cUL 762.

Motors shall be heavy-duty ball bearing type, carefully matched to the fan load, and furnished at the specified voltage, phase and enclosure. Drive frame assembly shall be constructed of heavy-gauge steel.

Motors and drives shall be mounted on vibration isolators, out of the airstream where no steel-to-steel contact between rotating components and the base shall occur. Fresh air for motor cooling shall be drawn into the motor compartment through a ten-square-inch tube free of discharge contaminants. Motors and drives shall be readily accessible for maintenance.

Precision ground and polished fan shafts shall be mounted in permanently sealed, lubricated pillow block ball bearings. Bearings shall be selected for a minimum L_{10} life in excess of 100,000 hours (L_{50} 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 factory installed and wired from the fan motor to a junction box installed within the motor compartment. A conduit chase shall be provided through the base to the motor compartment for ease of electrical wiring.

All fans shall bear the AMCA Sound and Air Performance seal.

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

A leakproof fan housing shall be constructed with a one-piece windband with an integral rolled bead for added strength and shall be joined to the curb cap with a continuously welded seam.

Fans shall be model CUBE, CUBE-HP or CUBE-XP as manufactured by Greenheck Fan Corporation in Schofield, Wisconsin, USA.

Options and Accessories For Belt Drives

UL/cUL Listed

- Fans shall be Listed by Underwriters Laboratory for UL/cUL 705 for all electrical components.
- Fans shall be Listed by Underwriters Laboratory for UL/cUL 762 for all electrical components and grease removal.

Curb Extensions

- Shall be mounted between roof curb and roof mounted fans to meet NFPA requirements of 40 inches (1016 mm) minimum discharge above the roof when mounted on a minimum 8-inch (203 mm) high roof curb.

Grease Containers

- Drain connection shall be constructed of aluminum and allow for single-point drainage of grease, water or other residues.
- Grease trap shall include the drain connection and shall be constructed from aluminum. The unit shall collect grease and water from the fan and extract the grease from the water for ease of grease disposal.

Easy Clean Options

- Hinge kit shall be constructed of heavy-gauge aluminum hinges and shall include hold-open cables for field installation.
- Non-stick wheel shall be constructed of aluminum with a non-stick coating similar to Teflon® as manufactured by DuPont™.
- Clean-Out Port shall have a hole on the outside of the windband and a grease repellent compression rubber fit, allowing access to entire wheel for cleaning.

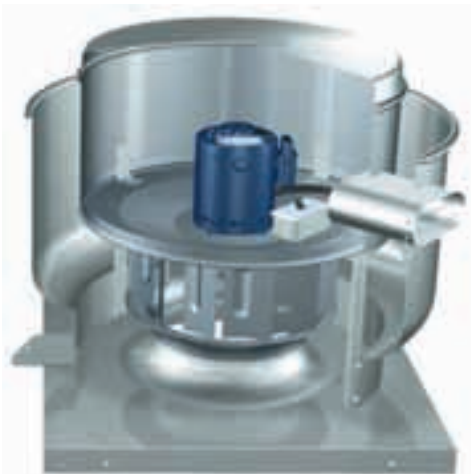


Windband Extension

- Shall be constructed from heavy-gauge aluminum tube that raises the discharge an additional 36 inches (914 mm).

Direct Drive Specifications

Model CUE



Spun aluminum exhaust fans shall be upblast centrifugal direct drive 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 constructed of heavy-gauge aluminum with a rigid internal support structure. The windband shall be one-piece and 100% continuously robotically welded to the one-piece aluminum curb cap.

Motors shall be mounted out of the airstream on vibration isolators. Fresh air for motor cooling shall be drawn into the motor compartment through a ten-square-inch tube free of discharge contaminants. Motors and drives shall be readily accessible for maintenance.

A disconnect switch shall be factory installed and wired from the fan motor to a junction box within the motor compartment. A conduit chase shall be provided through the curb cap to the motor compartment for ease of electrical wiring.

All fans shall bear the AMCA Sound and Air Performance seal.

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

A leakproof fan housing shall be constructed with a one-piece windband with an integral rolled bead for added strength.

Fans shall be model CUE or CUE-HP as manufactured by Greenheck Fan Corporation in Schofield, Wisconsin, USA.

Options and Accessories For Direct Drives

UL/cUL Listed

- Fans shall be Listed by Underwriters Laboratory for UL/cUL 705 for all electrical components.
- Fans shall be Listed by Underwriters Laboratory for UL/cUL 762 for all electrical components and grease removal.

Curb Extensions

- Shall be mounted between roof curb and roof mounted fans to meet NFPA requirements of 40 inches (1016 mm) minimum discharge above the roof when mounted on a minimum 8-inch (203 mm) high roof curb.

Grease Containers

- Drain connection shall be constructed of aluminum and allow for single-point drainage of grease, water or other residues.
- Grease trap shall include the drain connection and shall be constructed from aluminum. The unit shall collect grease and water from the fan and extract the grease from the water for ease of grease disposal.

Easy Clean Options

- Hinge kit shall be constructed of heavy-gauge aluminum hinges and shall include hold-open cables for field installation.
- Non-stick wheel shall be constructed of aluminum with a non-stick coating similar to Teflon® as manufactured by DuPont™.
- Clean-Out Port shall have a hole on the outside of the windband and a grease repellent compression rubber fit, allowing access to entire wheel for cleaning.

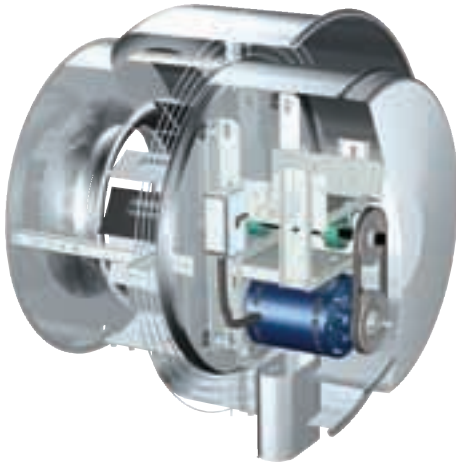


Windband Extension

- Shall be constructed from heavy-gauge aluminum tube that raises the discharge an additional 36 inches (914 mm).

Belt Drive Specifications

Model CWB



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 constructed of heavy-gauge aluminum with a rigid internal support structure. The windband shall be welded to the one-piece curb cap and on all sizes with UL/cUL 762.

Motors shall be heavy-duty ball bearing type, carefully matched to the fan load, and furnished at the specified voltage, phase and enclosure. Drive frame assembly shall be constructed of heavy-gauge steel. Motors and drives shall be mounted on vibration isolators, out of the airstream where no steel-to-steel contact between rotating components and the base shall occur. Fresh air for motor cooling shall be drawn into the motor compartment through a ten-square-inch tube free of discharge contaminants. Motors and drives shall be readily accessible for maintenance.

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

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

All fans shall bear the AMCA Sound and Air Performance seal.

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

A leakproof fan housing shall be constructed with a one-piece windband with an integral rolled bead for added strength. Fan shall be provided with a mounting plate, which is attached and sealed to the wall prior to locating the entire unit.

Fans shall be model CWB or CWB-HP as manufactured by Greenheck Fan Corporation in Schofield, Wisconsin, USA.

Options and Accessories For Belt Drives

UL/cUL Listed

- Fans shall be Listed by Underwriters Laboratory for UL/cUL 705 for all electrical components.
- Fans shall be Listed by Underwriters Laboratory for UL/cUL 762 for all electrical components and grease removal.

Easy Clean Options

- Non-stick wheel shall be constructed of aluminum with a non-stick coating similar to Teflon® as manufactured by DuPont™.

Direct Drive Specifications

Model CW



Spun aluminum exhaust fans shall be upblast centrifugal direct drive 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 constructed of heavy-gauge aluminum with a rigid internal support structure.

Motors shall be mounted out of the airstream on vibration isolators. Fresh air for motor cooling shall be drawn into the motor compartment through a ten-square-inch tube free of discharge contaminants. Motors and drives shall be readily accessible for maintenance.

A disconnect switch shall be factory installed and wired from the fan motor to a junction box within the motor compartment. A conduit chase shall be provided through the curb cap to the motor compartment for ease of electrical wiring.

All fans shall bear the AMCA Sound and Air Performance seal.

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

A leakproof fan housing shall be constructed with a one-piece windband with an integral rolled bead for added strength. Fan shall be provided with a mounting plate, which is to be attached and sealed to the wall prior to locating the entire unit.

Fans shall be model CW or CW-HP as manufactured by Greenheck Fan Corporation in Schofield, Wisconsin, USA.

Options and Accessories For Direct Drives

UL/cUL Listed

- Fans shall be Listed by Underwriters Laboratory for UL/cUL 705 for all electrical components.
- Fans shall be Listed by Underwriters Laboratory for UL/cUL 762 for all electrical components and grease removal.

Easy Clean Options

- Non-stick wheel shall be constructed of aluminum with a non-stick coating similar to Teflon® as manufactured by DuPont™.

Belt Drive Specifications

Model USGF

Ultimate Steel Grease Fan



Spun steel exhaust fans shall be centrifugal belt-driven type. Fan wheel shall be centrifugal backward-inclined type. The wheel shall be constructed of steel and coated with a non-stick coating similar to Teflon® as manufactured by DuPont™. Wheel 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 constructed of 16-gauge galvaneal steel with a rigid internal support structure and shall be leakproof. The fan housing shall be constructed with a one-piece windband with an integral rolled bead for added strength and shall be joined to the curb cap with a continuously welded seam.

The fan windband shall have a Clean-Out Port, a 4-inch diameter hole on the outside of the fan's windband with a grease repellent compression rubber fit, allowing access to entire wheel for cleaning.

Motors shall be heavy-duty ball bearing type, carefully matched to the fan load, and furnished at the specified voltage, phase and enclosure. Drive frame assembly shall be constructed of heavy-gauge galvanized steel. Motors and drives shall be mounted on heavy-duty true vibration isolators, out of the airstream. Fresh air for motor cooling shall be drawn into the motor compartment through a ten-square-inch tube free of discharge contaminants. Motors and drives shall be readily accessible for maintenance.

Precision ground and polished 1-inch minimum diameter fan shafts shall be mounted in cast pillow block lubricatable ball bearings. Bearings shall be selected for a minimum L_{10} life in excess of 100,000 hours (L_{50} life of 500,000 hours) at maximum cataloged operating speed. Dual 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. All fans shall have a dual belt and pulley system. A NEMA-3R disconnect switch shall be factory installed and wired from the fan motor to a junction box installed outside the motor compartment.

All fans shall bear the AMCA Sound and Air Performance seal.

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 be Listed by Underwriters Laboratory for UL/cUL 762 Listed for all electrical components and grease removal.

Hinged base shall be constructed of heavy-gauge hinges and shall include hold-open cables for field installation.

Grease trap shall include the drain connection. The unit shall collect grease and water from the fan and extract the grease from the water for ease of grease disposal.

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

Belt Drive Specifications

Model S-CUBE

Emergency Smoke Control



Spun aluminum exhaust fans shall be centrifugal belt-driven type. The fan wheel shall be centrifugal backward-inclined, constructed of steel 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 constructed of heavy-gauge aluminum with a rolled bead and a rigid internal support structure. A leakproof fan housing shall be constructed with a one-piece windband with an integral rolled bead for added strength and shall be joined to the curb cap with a continuously welded seam.

Motors shall be heavy-duty ball bearing type, carefully matched to the fan load, and furnished at the specified voltage, phase and enclosure. Drive frame assembly shall be constructed of heavy-gauge steel. Motors and drives shall be mounted on safety flange vibration isolators, out of the airstream. Fresh air for positive motor cooling shall be drawn into the motor compartment through a ten-square-inch tube free of discharge contaminants. Motors and drives shall be readily accessible for maintenance.

Precision ground and polished fan shafts shall be mounted in permanently sealed, lubricated pillow block ball bearings. Bearings shall be selected for a minimum L_{10} life in excess of 100,000 hours (L_{50} life of 500,000 hours) at maximum cataloged operating speed.

Dual 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 NEMA-3R disconnect switch shall be factory installed and wired from the fan motor to a junction box installed outside the motor compartment.

All fans shall bear the AMCA Sound and Air Performance seal.

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 be Listed by Underwriters Laboratory for UL/cUL 705 for electrical components and UL/cUL Listed for Emergency Smoke Control Systems [500°F (260°C) for 4 hours and 1,000°F (538°C) for 15 minutes].

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

Quick Delivery and Quick Build Programs



Greenheck Fan Corporation offers an extensive selection of Quick Delivery (QD) and Quick Build (QB) offerings. The QD program is Greenheck's stock program and the QB program offers configurable fans in one, three, five, or ten days.

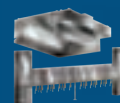
Hundreds of in-stock ventilation products and accessories are available for shipment to your jobsite in less than 24 hours from our strategically located warehouses throughout the world.

Please see the chart below for model size and availability for QD and QB programs. The Greenheck Stock & Quick Build Catalog is a great resource for specific options and accessories available with QD and QB fans.

Quick Delivery & Quick Build Availability by Model Size

SIZE	CUBE	CUE	CWB	CW	USGF
060 – 095		1-3-10		QD-1-3-10	
098	QD-1-3-10	1-3-10	1-3-10	QD-1-3-10	
101	QD-1-3-10	QD-1-3-10	1-3-10	QD-1-3-10	
101HP	1-3-10		1-3-10		
121	QD-1-3-10	QD-1-3-10	1-3-10	QD-1-3-10	
131	1-3-10	1-3-10	1-3-10	1-3-10	
140					10
140HP					10
141	QD-1-3-10	1-3-10	QD-1-3-10	1-3-10	
141HP	QD-1-3-10	1-3-10	1-3-10	1-3-10	
160					10
160HP					10
160XP					10
161	QD-1-3-10	QD-1-3-10	QD-1-3-10	1-3-10	
161HP	QD-1-3-10	1-3-10	1-3-10	1-3-10	
161XP	1-3-10				
180	QD-1-3-10	1-3-10	QD-1-3-10	1-3-10	10
180HP	QD-1-3-10	1-3-10	1-3-10	1-3-10	10
200	QD-1-3-10	1-3-10	1-3-10	1-3-10	10
200HP	1-3-10		1-3-10		10
220	QD-1-3-10		1-3-10		
220HP	1-3-10		1-3-10		
240	QD-1-3-10		1-3-10		
240HP	QD-1-3-10		1-3-10		
240XP	1-3-10				
300	QD-1-3-10		1-3-10		
300HP	1-3-10		1-3-10		
300XP	1-3-10				
360	1-3-10				
360HP	1-3-10				
360XP	1-3-10				
420	1-3-10				
480	1-3-10				

Model S-CUBE fans are not available on a Quick Delivery or Quick Build Program.



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.



Prepared to Support
Green Building Efforts

