PENNBARRY™

Moving Your Way

DOMEX

Centrifugal Roof Exhausters

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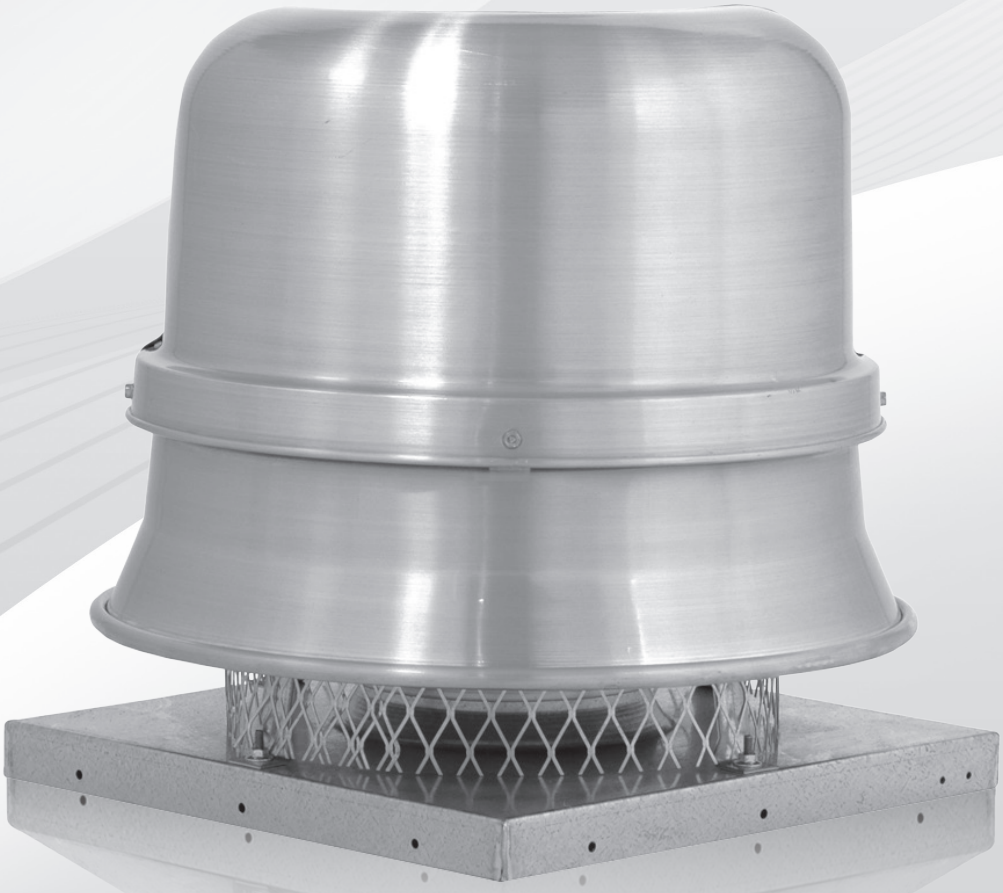


BULLETIN DX14

Belt Drive Domex

Direct Drive Domex

INTRODUCTION

Domex Series of Centrifugal Fans

Domex fans are ideal for general purpose exhaust applications including: bathrooms, garages, general kitchen areas, offices, churches, dormitories, factories, large warehouses and other relatively clean air applications.

They feature a weather-resistant, seamless spun aluminum housing which works in conjunction with a patented wheel design and deeply spun inlets to provide smooth quiet air flow through the ventilator. The centrifugal wheels are aluminum, nonoverloading, backward inclined, robotically welded, and dynamically balanced. The optional high wind construction makes Domex fans particularly suited for high wind hurricane zones.

Domex Direct Drive Series

Model: DX (V/S/R/Q/Q1/Q2)

- Static pressure up to 1.25 in. wg.
- Flow capacity up to 4,561 CFM.
- High wind construction (-HW) option available.

Domex Standard Duty Belt Drive Series

Model: DX (B)

- Static pressure up to 1.5 in. wg.
- Flow capacity up to 19,442 CFM
- High wind construction (-HW) option available.

Domex High Capacity Belt Drive Series

Model: KB, JB, MB

- Static pressure up to 1.5 in. wg.
- Flow capacity up to 46,640 CFM

CERTIFICATIONS & LISTINGS

Domex Direct & Belt Drive Fans

PennBarry certifies that the Domex direct drive and belt drive models shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and AMCA publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Domex High Capacity Belt Drive Fans

PennBarry certifies that the Domex high capacity models shown on pages 25 - 27 are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

cUL Certification

Domex fans carry the UL label, UL 705, (ZACT), File #E28413.

High Velocity Hurricane Zone (HVHZ)

Miami-Dade NOA # 14-0311.03
Florida Product Approval #12339
Texas Department of Insurance #RV-48

FEATURES & BENEFITS

Motor Selection

Both direct drive and belt drive models are available with a wide range of voltages and enclosures (see Motor Selection for a complete listing). Standard belt drive Open Drip Proof (ODP) ball bearing motors are selected using a conservative portion of the NEMA service factor. Standard direct drive ODP motors have Class B insulation and internal thermal overload protection. Each size is carefully engineered to match the motor to the wheel capacity.

Internal Wiring

All direct drive models with ODP motors feature a polarized disconnect plug between the motor and junction box. This provides a positive method of electric shut-off. Belt drive units with ODP motors are factory-wired between the motor and junction box. For either direct drive or belt drive models, an electric disconnect is available.

Sound Performance

Units deliver outstanding air performance with minimal noise.

Curb Caps (Base)

Curb caps for direct drive and standard duty belt drive models are available in galvanized steel (standard) or aluminum (optional). Curb caps for high capacity belt drive models are available only in aluminum. All curb caps have fully welded corners and are pre-punched to ensure both a leak-tight and easy installation.

Forced Motor Cooling

Breather slots between the motor dome and discharge apron enable fresh air to be drawn into the motor housing during fan operation. This positive cooling promotes longer life for motor and drive components.

Easy Maintenance Access

By removing the fasteners, the motor dome lifts off for complete access to all the drive train components.

Structural Integrity

Durable housings of spun aluminum have a high strength-to-weight ratio and incorporate a rolled bead for additional strength. There are no welds to break or seams to leak. The heavy-gauge motor mounting platform provides positive rigidity between all components of the power train assembly.

Solid Steel Shafts

Sized so the first critical speed is a minimum of 130% of maximum cataloged operating speed, shafts are precision ground and polished.

Internal Bracing

Tri-Strut™ supports transfer the weight of the motor mounting platform directly to the curb mounting surface. The aluminum spun housing, therefore, is not used to support any weight.

Self-Aligning Bearings

Heavy-duty bearings are sized for a minimum L50 life in excess of 200,000 hours of operation. 100% factory tested, they are designed for air handling applications.

Drives and Belts

Pulleys are pre-set to the specified RPM. Cast iron variable pitch pulleys are adjustable, allowing for field balancing based on actual field conditions. All pulleys are sized for at least 150% of the driven horsepower.

Vibration Isolators

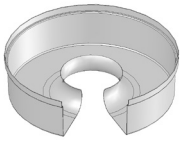
Multidirectional, rubber-in-shear vibration isolators mitigate residual vibration transmission from the unit to the building.

Conduit

Both direct and belt drive units include a large 1” nominal conduit chase for easy installation of wiring from the motor dome to below the curb cap.

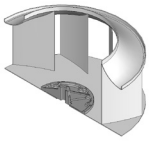
Reverse Venturi

Reverse venturi reduces turbulence and improves distribution of the air as it enters the wheel inlet and is “captured” by the blades.



Aluminum Wheels

Domex fans offer patented wheel designs. Carefully matched highly-tooled venturis enhance the performance of these backward inclined and non-overloading centrifugal wheels. Made of advanced alloys, the various wheel components provide superior strength and durability.



Silent Wheel (Direct Drive)

- Blades’ highly curved leading edge provide unsurpassed low sound numbers with excellent air performance.
- Back plate and inlet are stamped for consistency, plus dynamic balancing assure smooth, vibration-free operation.
- Riveted and/or welded construction ensure superior dependability over other wheel designs.

Standard Duty, All Welded Wheel

(Standard Duty Belt Drive)

- Blades are curved for improved air performance while increasing their strength and rigidity.
- Back plate and inlet are stamped for consistency. They include a perimeter rim which enhances strength and improves balancing.
- Wheel assembly is robotically welded to provide extremely durable and consistent performance.
- Wheel is dynamically balanced. Balancing weights are mechanically attached to the inside of the rims of both the back plate and wheel inlet. This allows a precise placement of the weights anywhere within a full 360º range on two separate planes, without the possibility of detachment.

OPTIONS & ACCESSORIES

Finishes

Coatings such as Polyester Powder Coat, Epoxy Powder Coat, Phenolic Epoxy Powder Coat, and others are available. See the coatings brochure for details.

Mounting Pedestal

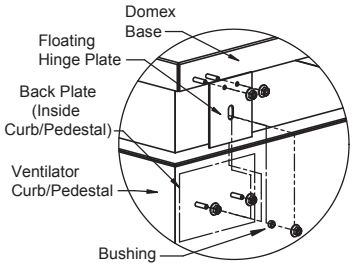
The 12" high mounting pedestal, available in aluminum or galvanized steel, incorporates a removable access panel for easy inspection and service of motor operated backdraft dampers. It provides solid ventilator support and a weather resistant seal that does not injure or disturb flashing.

Hinged Sub-Base

Hinged sub-bases provide access to the curb well for damper service or to clean out. Constructed with a rustproof hinge arrangement and low height (3 ½") the assembly is easily manipulated and reduces the impact on overall installation height. This accessory is available for use with most all models for either factory built or existing roof curbs.

Floating Hinge Kit

A floating hinge kit is available for field installation. This assembly connects the exhauster directly to the roof curb and provides the same level of access as the hinged sub-base.



Aluminum Bird and Insect Screen

Bird screens are available for all direct and belt drive models. An aluminum insect screen with a smaller mesh than the standard bird screen is also available.

Backdraft Dampers

Backdraft dampers are available for either gravity or motorized operation (motor kit optional). Dampers feature square galvanized steel frame, multi-leaf, roll formed aluminum blades with nylon bearings.

Safety Disconnect Switch

Safety disconnect switches are available to allow positive electrical shut-off and safety. NEMA 1 switches are factory mounted when factory wiring is requested, others will be shipped loose. Wiring is only run from the motor to the junction box. (Factory wiring of explosion proof applications is not available.) A wide range of NEMA rated enclosures with disconnect switches are available for indoor, outdoor, and explosion proof installations. Disconnects are to be field wired by a licensed electrician.

Firestat Switch

Firestat switch automatically disconnects the unit when the temperature of the air being exhausted exceeds a preset rating.

Time-Delay Switch

(Selected direct drive models only.) The Airminder Model AM12 switch is a UL recognized and CSA certified time-delay relay that operates both the fan and room light to ventilate an area even after the occupants depart. In the "On" position, the Airminder turns the light and fan on immediately. In the "Off" position, the light goes off immediately and the fan is in operation for a period of time as preset from 1 to 60 minutes. Suitable only for 1/3 HP maximum at 120/1/60.

Speed Controllers

The Lektrol™ controller allows adjustment in speed to a maximum of 50% reduction, which results in a very cost effective means for system balancing. The device can be located under the fan dome to prevent unauthorized tampering or on the wall for ease of operation by the building occupants. (Available on direct drive units with ODP motors and some select TE motors. See reference table under Motor Availability)

Automatic Belt Tensioner

The factory mounted Automatic Belt Tensioner accessory eliminates the need for re-tensioning the belt after start-up. It is constructed from 10 gage galvanized steel and incorporates five torsion springs to automatically position the motor and maintain proper belt tension. Additional benefits include reduced belt and pulley wear and simplified belt replacement without tools. The Automatic Belt Tensioner is available for Domex models DX11B, DX12B, and DX14B with 1/4, 1/2, 3/4 and 1 HP ODP motors. It can also be used with 1.5 HP, 3-phase ODP motors.

Internal Wiring

NEMA 3R wiring is available for both direct and belt drive models.

Spark Resistant Construction

AMCA 'B' construction is available as standard construction on direct drive units and as an option on belt drive units. If required, an explosion proof motor and disconnect may be selected as options.

Prefabricated Curb

A variety of sizes of prefabricated roof curbs are available. Galvanized steel unibeam curbs are the most popular. For a complete listing of all curb types and sizes available, please consult the latest PennBarry Curb brochure.

OPTIONS & ACCESSORIES

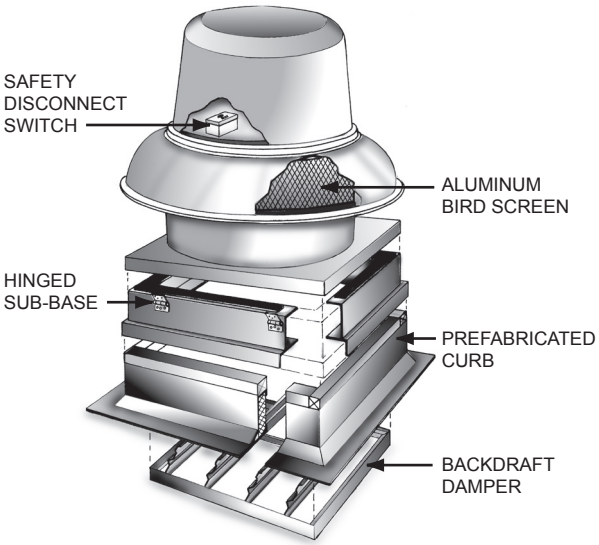
High Wind Construction

High wind construction Domex fans are specifically designed for high velocity hurricane zones (HVHZ). The Domex models are designed to withstand 150 MPH winds in accordance with Miami-Dade and Florida Building Code standards. The units are 3rd party tested and certified through a 3rd party Professional Engineer (P.E.) to meet these strict standards. Installation details are provided and since there are no tie downs or external braces required for attaching the unit to the roof or curb this makes installation simple and easy. A wide range is offered to meet all of your ventilation needs which includes all belt and direct drive sizes 36 and under.

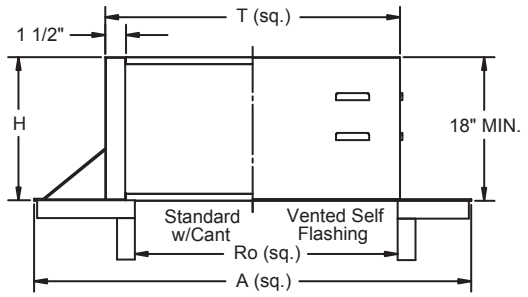
Product Certifications:

- Miami-Dade NOA # 14-0311.03
- Florida Product Approval #12339
- Texas Department of Insurance #RV-48

Domex Exploded View



Domex Curb Dimensions



All dimensions in inches.
(1)Standard heights "H" are 8", 12", and 18" including wood nailer.
(2)"T" dimension of curb is 1 1/2" less than the dimension of inside base of fan ("E").
(3)"Ro" refers to Roof Opening. (4)"E" dimension is inside base of fan.

Model	E(4) SQ	T(2) SQ	A SQ	Ro(3) SQ	Damper Size SQ	Galv. Steel Gauge
DX06R	18.5	17	25	9	8.75	18
DX08S/R	18.5	17	25	9	8.75	18
DX10S/R	18.5	17	25	11.5	11.25	18
DX11V/S/R/Q	18.5	17	25	11.5	11.25	18
DX13V/S/R/Q	18.5	17	25	11.5	11.25	18
DX16V/S/R/Q1/Q2	20.5	19	27	16	15.75	18
DX18V	28.5	27	35	20	19.75	18
DX06B/DX08B	18.5	17	25	11.5	11.25	18
DX11B	20.5	19	27	16	15.75	18
DX12B/DX14B	24.75	23.25	31.25	16	15.75	18
DX16B/DX18B	28.5	27	35	20	19.75	18
DX24B	33.5	32	40	25	24.75	18
DX27B/DX30B	36.5	35	43	28	27.75	18
DX36B	44.5	43	51	36	35.5	18
KB420	52.5	51	59	44	43.5	18
JB48	59	57.5	65.5	50	49.5	18
MB542	63.5	62	70	55	54.5	18

MOTOR AVAILABILITY

NEMA Motor

This chart summarizes the largest allowable NEMA frame sizes for motors used on belt drive models.

Largest Available NEMA Frame Size per Model

Model	Max. Frame Size
DX06B	42*
DX08B	42*
DX11B	56
DX12B	56
DX14B	56
DX16B	145T
DX18B	145T
DX24B	184T
DX27B/DX30B	184T
DX36B	213T
KB420	213T
JB48	215T
MB542	254T

Only available as 1/4 ODP, 115V.* ***At PennBarry's option, large frame motors may be removed after testing and shipped separately**. Contact the factory for special application motor availability.*

Fixed Speed Motor Control

Two-speed motors, used in conjunction with external switches or sensors (gas concentration, odor, temperature), are used to quickly adjust the airflow through the ventilator by changing from one fixed speed to another. Normally, 2-speed motors operate at 1800 and 1200 RPM (2-speed, 2-windings). However, 1800/900 RPM (2-speed, 1 winding) motors are available for 3-phase power only. A single operating voltage must be specified because dual-voltage versions are not available in a 2-speed motor.

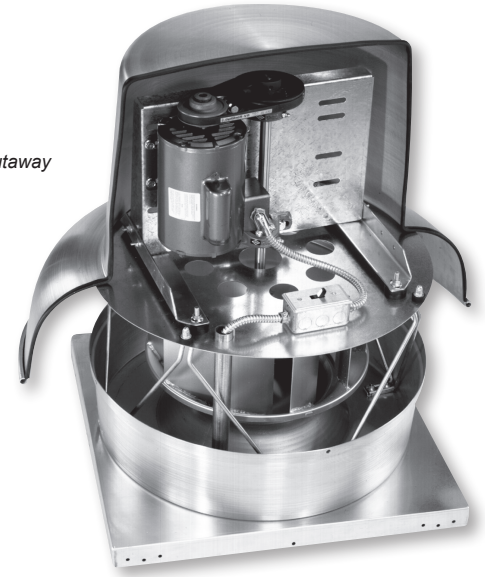
Variable Speed Motor Control

PennBarry offers Lek-Trol™ solid state controllers to reduce the high speed of most direct drive motors by as much as 50%. If variable speed is required, check the Lek-Trol™ availability table below to verify that controllers exist for the fan model selected. Remember, Lek-Trol™ controllers are currently only available for direct drive motors including all standard Open Drip Proof (ODP) 60 Hz motors. Not all totally enclosed motors are currently available with variable speed control. Inverter rated motors suitable for use with variable frequency drives can be supplied for belt drive models. Contact your local PennBarry representative for availability.

Available Lek-Trol™ Speed Controls

Model	60 Hz					50 Hz		
	ODP	Totally Enclosed				Totally Enclosed		
	115V	115V	200V	208V	230V	110V	220V	240V
DX06R	LT25	-	-	-	-	-	-	-
DX08S	-	-	-	-	-	-	-	-
DX08R	LT25	-	-	-	-	-	-	-
DX10S	-	-	-	-	-	-	-	-
DX10R	LT30	LT30	LT35	LT35	LT35	LT30	LT35	LT35
DX11V	-	-	-	-	-	-	-	-
DX11S	-	-	-	-	-	-	-	-
DX11R	LT30	-	-	-	-	-	-	-
DX11Q	LT50	-	-	-	-	-	-	-
DX13V	LT55	-	-	-	-	-	-	-
DX13S	LT30	-	-	-	-	-	-	-
DX13R	LT30	LT30	LT35	LT35	LT35	LT50	LT35	LT35
DX13Q	LT45	LT50	LT35	LT35	LT35	LT50	LT35	LT35
DX16V	LT55	-	-	-	-	-	-	-
DX16S	LT50	-	-	-	-	-	-	-
DX16R	LT50	-	-	-	-	-	-	-
DX16Q1	LT40	-	-	-	-	-	-	-
DX16Q2	LT75	-	-	-	-	-	-	-
DX18V	LT60	-	-	-	-	-	-	-

Belt Drive
Domex Cutaway



Direct Drive
Domex Cutaway

MOTOR AVAILABILITY

Green Plus Electronically Commutated Motor

The Green Plus (GP) option utilizes EC motors to provide significantly greater efficiency, flexibility, and controllability over standard direct drive permanent split capacitor (PSC) motors. Using the included potentiometer, the Green Plus motors can be turned down to as low as 80% the max operating speed while maintaining 90% efficiency through the operating range. Additionally, the Green Plus can accept 0-10V input to tie to building management systems, allowing for savings in not only direct fan energy consumption but reducing the exhaust of conditioned air during off peak hours as well. All Green Plus motors come in open enclosure for usage with 115-208/230V, single phase, 60 Hz applications.

Model	Size	Tap	ECM HP
DX	08	S	0.33
	08	R	0.33
	10	S	0.33
	10	R	0.33
	11	V	0.33
	11	S	0.33
	11	R	0.33
	11	Q	0.33
	13	V	0.33
	13	S	0.33
	13	R	0.33
	13	Q	0.33
	16	V	0.33
	16	S	0.50
	16	R	0.50
	16	Q1	0.50
	16	Q2	0.75
	18	V	0.75

Belt Drive Motor Availability

The chart below lists horsepowers, voltages, and enclosure types. After selecting a model and horsepower that meets performance requirements, an engineer should verify that the desired voltage and enclosure are the same (or smaller) as the maximum NEMA motor frame shown for each model (see NEMA Motor Frame Size chart).

Model	1 Phase					200V, 230V, 460V OR 575V 3 Phase				
	ODP		Totally Enclosed	Explosion Proof	2 Speed 2 Winding	ODP	Totally Enclosed	Explosion Proof	2 Speed 2 Winding	2 Speed 2 Winding
	115V	230V	115V/230V							
1/4	48	48	48	48/56	48	48	48	48	56	-
1/3	48/56	48/56	56	56	56	56	56	56	56	-
1/2	48/56	48/56	56	56	56	56	56	56	143T	56
3/4	56	56	56	56	56	56	56	56	143T	56
1	56	56	56	56	56	56	56	56	143T	145T
1 1/2	56	56	145T	184T	-	56	56	56	145T	182T
2	145T	145T	182T	182T	-	56/145T	145T	145T	145T	182T
3	184T	184T	184T	215T	-	145T	182T	182T	184T	184T
5	-	-	-	-	-	184T	184T	184T	184T	215T
7 1/2	-	-	-	-	-	213T	213T	213T	-	215T
10	-	-	-	-	-	215T	215T	215T	-	256T
15	-	-	-	-	-	254T	254T	254T	-	284T

On horsepowers less than 1 1/2, motor frame sizes may change due to variations in voltage, special features and motor manufacturer. Motors shown are ball bearing, continuous duty and 1750 RPM or 1750/1140 RPM for two speed - two winding motors.

MOTOR AVAILABILITY

Direct Drive Motor Availability

The following chart lists the various motor options available for each of the direct drive fan models. Once a fan model is selected, this chart can be used to determine if a suitable motor is available. (If not, another selection may have to be made from the fan performance charts). Look under the nominal RPM heading to determine which fans have 2-speed and 3-speed motors.

Model	Nominal RPM				1 Phase							
					115 Volts			200 - 240 Volts				
	1050 V	1300 S	1550 R	1725 Q	Open Drip Proof	Totally Enclosed	Explosion Proof	Open Drip Proof	Totally Enclosed	50 hz	50 C Ambient	Explosion Proof (4)
DX06R	-	-	x	-	yes	-	-	Use TE Motors	-	-	-	-
DX08S/R	-	x	x	-	yes	yes (1)	-		yes (1)	yes (1)	yes (1)	-
DX10S/R	-	x	x	-	yes	yes (1)	-		yes (1)	yes (1)	yes (1)	-
DX11V/S/R	x	x	x	-	yes	yes (1)	-		yes (1)	yes (1)	yes (1)	-
DX11Q	-	-	-	x	yes	yes	yes		yes	yes	-	yes (5)
DX13V/S/R	x	x	x	-	yes	yes (1)	-		yes (1)	yes (1)	-	-
DX13Q	-	-	-	x	yes	yes	yes		yes	yes	yes	yes (5)
DX16V/S/R	x	x	x	-	yes	yes (1)	-		yes (1)	yes (1)	yes (1)	-
DX16Q1	-	-	-	x (3)	yes	-	-		-	-	-	-
DX16Q2	-	-	-	x	yes	yes	yes		yes	yes	yes	yes (5)
DX18V	x	-	-	-	yes	-	-		-	-	-	-

Model	Nominal RPM				3 Phase				
					200 - 460 Volts (2)				
	1050 V	1300 S	1550 R	1725 Q	Open Drip Proof	Totally Enclosed	50 hz	50 C Ambient	Explosion Proof (4)
DX06R	-	-	x	-	Use TE Motors	-	-	-	-
DX08S/R	-	x	x	-		-	-	-	-
DX10S/R	-	x	x	-		-	-	-	-
DX11V/S/R	x	x	x	-		-	-	-	-
DX11Q	-	-	-	x		-	-	-	yes (6)
DX13V/S/R	x	x	x	-		-	-	-	-
DX13Q	-	-	-	x		yes	yes	yes	yes (6)
DX16V/S/R	x	x	x	-		-	-	-	-
DX16Q1	-	-	-	x (3)		-	-	-	-
DX16Q2	-	-	-	x		-	-	-	yes (6)
DX18V	x	-	-	-		-	-	-	-

(1) High speed only.
(2) 200 - 240, 380, 415, 460V.
(3) Nominal 1650 RPM.
(4) Cls.I, Grp.D, Div. I / Cls. II, Grp.F & G, Div.I., Not available with 50 Hz.
(5) 208-230V only. Not available in 200V.
(6) 230V and 460V only.

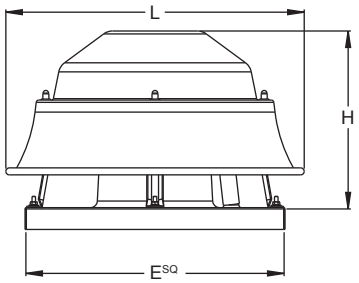
DX06, DX08, DX10, & DX11 | DIRECT DRIVE

Performance Data Overview

Domex direct drive models are available with single and multi-speed motors. Multi-speed motors are designated V (1050 RPM), S (1300 RPM), and R (1550 RPM). DX06R and DX18V are exceptions being single speed motors. Q, Q1, Q2 (1725/1760 RPM) are single speed motors. A single Domex fan may be suitable for several requirements by a simple wiring change. This feature provides flexibility for a variety of reasons, including energy savings, off-hours requirements, future expansion, or unexpected field variations. Domex direct drive models are available in seven sizes (6, 8, 10, 11, 13, 16 and 18). Capacities range from below 150 CFM to above 4500 CFM, with static pressures beyond 1 1/4".

By using Lek-Trol™ variable speed controllers, the high speed flow rate of most models can be reduced by as much as 50%. Do not use Lek-Trol™ on medium or low speed for multispeed models, unless a specific Lek-trol™ is shown to be available (see Lek-Trol™ Speed Controller Availability). When compared to belt drive models, Domex direct drive fans require less maintenance, have a simpler construction, cost less, and are lighter in weight. Performances in 50 Hz applications will be less than shown below; consult with local PennBarry representative.

Model	Material Gages			Dimensions				Est. Ship Wt.
	Alum. Base	Galv. Base	Hood/ Apron	L (Dia.)	H	E*	Ro	
DX06R	0.064"	16 ga.	0.050"	18 ⅞	12 ⅝	18 ½ x 18 ½	9 x 9	22 lbs
DX08S/R	0.064"	16 ga.	0.064"	20 ⅞	13 ⅜	18 ½ x 18 ½	9 x 9	26 lbs
DX10S/R	0.064"	16 ga.	0.064"	20 ⅞	13 ⅜	18 ½ x 18 ½	11 ½ x 11 ½	29 lbs
DX11V/S/R	0.064"	16 ga.	0.064"	20 ⅞	13 ⅜	18 ½ x 18 ½	11 ½ x 11 ½	38 lbs
DX11Q	0.064"	16 ga.	0.064"	20 ⅞	13 ⅜	18 ½ x 18 ½	11 ½ x 11 ½	40 lbs



*All dimensions are in inches. *Outside dimension of curb should be 1 ½" less than "E" dimension.*

Model	Nominal			Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP	
	HP	Max Watts	RPM		CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
DX06R	1/100	52	1550	2841	146	4.3	100	3.6	69	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DX08S	1/50	44	1300	3361	237	1.5	161	2.2	114	3	69	3.8	-	-	-	-	-	-	-	-	-	-	-	-
DX08R	1/30	55	1550	4007	285	2.4	100	2.8	141	3.5	94	4.1	58	4.9	-	-	-	-	-	-	-	-	-	-
DX10S	1/25	82	1300	3361	385	3.9	316	3.5	257	4.8	207	5.1	168	5.2	129	5.6	82	6.1	-	-	-	-	-	-
DX10R	1/12(1)	121	1550	4007	559	6.1	501	5.9	446	6.1	394	6.5	338	6.8	267	7	187	7.2	100	7.4	-	-	-	
DX11V	1/25	111	1050	3058	388	1.8	223	2.2	148	3.1	112	3.7	80	4.5	49	5.3	-	-	-	-	-	-	-	-
DX11S	1/11	142	1300	3786	503	3.4	397	3.6	320	4.3	262	5	201	5.5	149	6	104	6.5	-	-	-	-	-	-
DX11R	1/6(2)	201	1550	4514	736	6.7	659	6.4	577	6.6	502	6.9	432	7.6	356	7.9	274	7.9	188	7.9	100	7.9	-	-
DX11Q	1/5(3)	268	1725	5024	997	10.2	921	9.7	850	9.5	768	9.5	685	9.4	598	9.2	511	9	409	8.7	294	8.9	100	8.9

(1) TE motor is 1/6 Hp.
(2) TE motor is 1/7 Hp.
(3) EXP motor is 1/4 Hp.

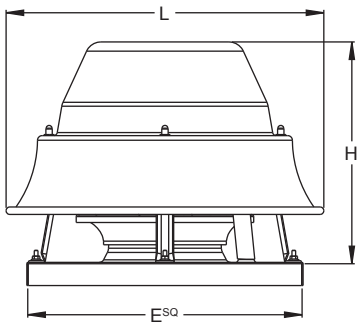
Performance shown is for installation Type A: Free Inlet, Free Outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the air stream.

Domex fans are only one component of a total system. As such, fan performance is directly affected by the system. It is critical that system designers determine the actual system loss to ensure that the actual flow is specified in the system design.

DX13 | DIRECT DRIVE

Model	Material Gages			Dimensions				Est. Ship Wt.
	Alum. Base	Galv. Base	Hood/ Apron	L (Dia.)	H	E*	Ro	
DX13V/S/R	0.064"	16 ga.	0.064"	21 7/16	14 ¾	18 ½ x 18 ½	11 ½ x11 ½	36 lbs
DX13Q	0.064"	16 ga.	0.064"	21 7/16	14 ¾	18 ½ x 18 ½	11 ½ x11 ½	43 lbs

*All dimensions are in inches. *Outside dimension of curb should be 1 ½" less than "E" dimension.*



Model	Nominal			Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP	
	HP	Max Watts	RPM		CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
DX13V	1/20	92	1050	3221	661	4.4	479	3.1	341	2.8	262	3.6	207	4.3	161	5.1	115	5.9	79	6.6	44	7.4	-	-
DX13S	1/12	120	1300	3988	869	8	749	6.4	632	5.3	510	5.4	418	6	349	6.4	290	6.7	226	7	158	7.4	-	-
DX13R	1/6	201	1550	4755	1054	10.5	988	9.9	917	9.2	839	8.9	736	8.5	651	8.2	579	7.9	510	7.9	428	8	191	8.5
DX13Q	1/4	314	1725	5292	1280	16	1226	15.3	1170	14.6	1112	14	1053	13.4	995	13	936	12.5	868	12	796	11.5	630	11

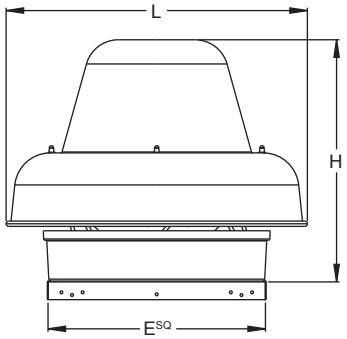
Performance shown is for installation Type A: Free Inlet, Free Outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the air stream.

Domex fans are only one component of a total system. As such, fan performance is directly affected by the system. It is critical that system designers determine the actual system loss to ensure that the actual flow is specified in the system design.

DX16 & DX18 | DIRECT DRIVE

Model	Material Gages			Dimensions				Est. Ship Wt.
	Alum. Base	Galv. Base	Hood/ Apron	L (Dia.)	H	E*	Ro	
DX16V/S/R, Q1 & Q2	0.064"	16 ga.	0.064"	28 ½	22 ½	20 ½ x 20 ½	16 x 16	56 lbs
DX18V	0.080"	14 ga.	0.064"	39	31	28 ½	20	78 lbs

*All dimensions are in inches. *Outside dimension of curb should be 1 ½" less than "E" dimension.*



Model	Nominal			Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP	
	HP	Max Watts	RPM		CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
DX16V	1/6	453	1050	3788	1738	9.9	1489	8	1256	6.6	1032	6.1	884	6.6	772	7.1	682	7.9	598	9.9	529	10.1	392	10.2
DX16S	1/3	510	1300	4690	2021	12	1822	10.6	1637	9.5	1428	8.7	1256	8.4	1094	8.5	943	9.3	850	10.2	775	11	606	12.3
DX16R	1/3(1)	574	1550	5592	2346	13.8	2176	12.8	2014	12	1853	11.3	1685	10.7	1532	10.4	1384	10.1	1247	10	1115	10.4	881	12.4
DX16Q1	1/2	688	1650	5953	2701	16.9	2576	16.4	2465	15.9	2352	15.5	2228	15	2096	14.4	1966	14	1839	13.6	1700	13.5	1401	13.5
DX16Q2	3/4	866	1725	6223	3016	17.7	2921	17.1	2829	16.7	2747	16.3	2665	15.9	2575	15.5	2484	15	2371	14.6	2256	14.2	2005	13.3
DX18V	3/4	964	1075	6029	4561	21	4395	19.8	4230	19.1	4053	18.5	3865	17.9	3671	16.9	3454	16.4	3237	16.4	2995	16.4	2405	16.4

(1) TE motor is 1/2 Hp.

Performance shown is for installation Type A: Free Inlet, Free Outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are for loudness values in fan sones at 5'0" (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the air stream.

Domex fans are only one component of a total system. As such, fan performance is directly affected by the system. It is critical that system designers determine the actual system loss to ensure that the actual flow is specified in the system design.

DIRECT DRIVE PERFORMANCE DATA

Domex Fan Curves

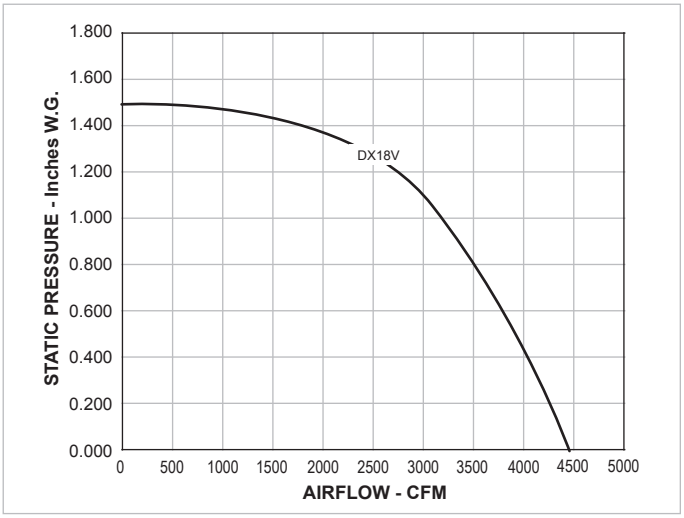
The fan curves illustrated here show the range of capacities available for direct drive units. Each graph shows the performance of several models at one particular nominal speed. Fan curves provide a quick method for selecting a fan unit based on design point requirements.

The direct drive performance chart on the previous page provides the tabular data (CFM and static pressure) used to plot the fan curves. In addition, the horsepower, tip speed and sones are tabulated. Since sound is normally an important factor in the selection of a fan, an engineer will usually want to select the “slowest” unit which meets CFM and SP requirements.

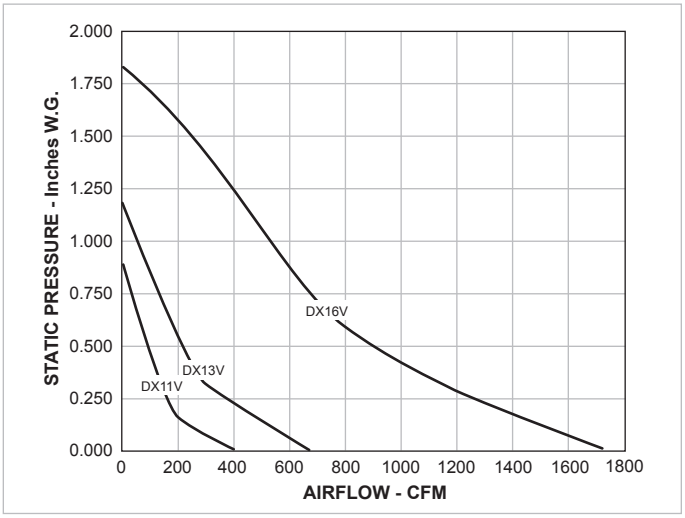
Please refer to the Motor Selection section to make sure the motor you select meets your electrical requirements.

Domex fans are only one component of a total system. As such, fan performance is directly affected by the system. It is critical that system designers determine the actual system loss to ensure that the actual flow is specified in the system design.

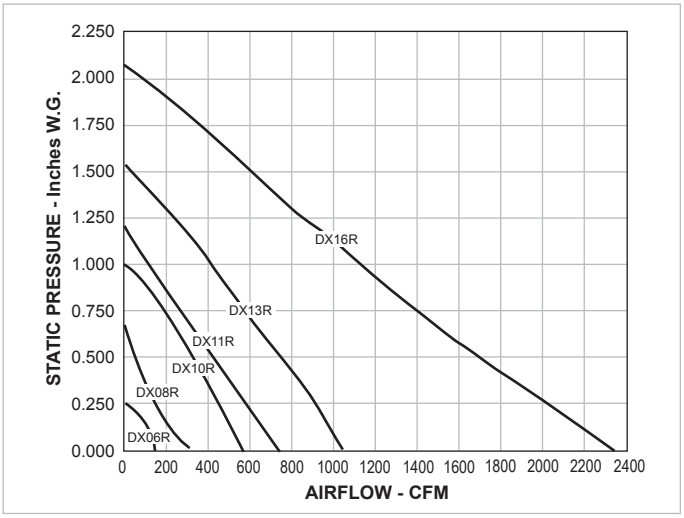
Nominal 1075 RPM



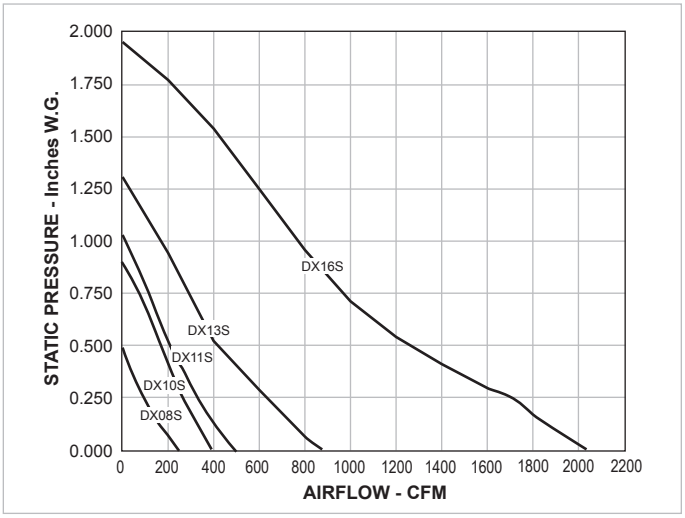
Nominal 1050 RPM



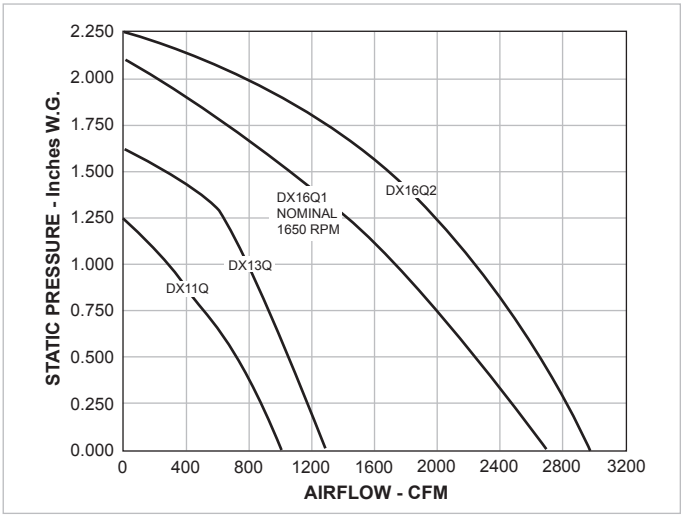
Nominal 1550 RPM



Nominal 1300 RPM



Nominal 1725 RPM



BELT DRIVE PERFORMANCE DATA

Performance Data

The belt drive models shown on the following pages have sizes and capacities ranging from below 300 CFM to above 46,000 CFM, with static pressures from 0" to above 1 ½". All models are available with a wide range of horsepower sizes and RPM's. Two-speed motors are commonly used to enhance this flexibility.

The data provided for each belt drive model includes:

- Elevation Drawing Showing Overall Dimensions
- Fan Curve Graph
- Performance Chart

Each curve graphically displays the range of capacities available for each model, in most cases beyond the specifics shown in the tabular data. The maximum performance afforded by each horsepower is indicated by dashed lines and the RPM is indicated by solid lines.

Some models have graphs that show both shaded and unshaded areas. Selection should be made from the unshaded area only. Shaded areas reflect unstable performance ("surge"), a characteristic typical of backward inclined wheels, and should be avoided. These unstable regions are not shown in the tabular data.

The highest RPM shown for a specific horsepower in the tabular data is the maximum speed that for any point along the performance curve, the BHP will not exceed the available horsepower.

It is important to note that while it is common industry-wide practice to exceed a "nominal" horsepower by using a motor's service factor, PennBarry uses a conservative portion of the service factor, allowing half to remain a true "safety" factor.

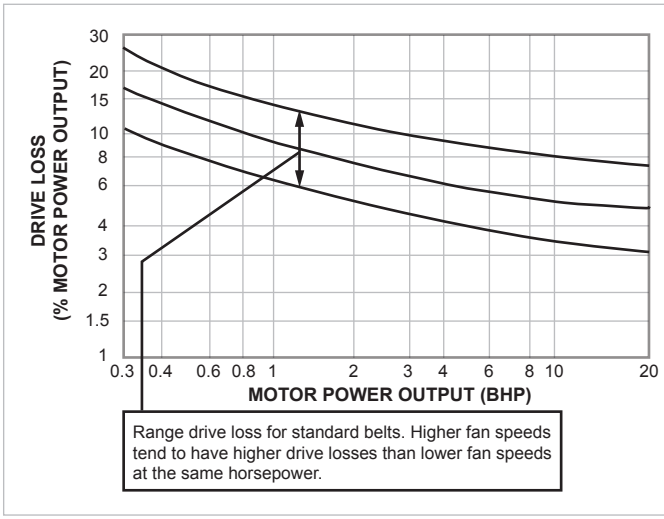
Use the Motor Availability chart (see Motor Selection) to select motor enclosures and voltages which can be installed in the fans.

Note: Domex fans are only one component of a total system. As such, performance is directly affected by the system. It is critical that system designers determine actual system losses to ensure that the actual flow is specified in the system range.

Belt Drive Losses

The AMCA Review Committee has developed the chart shown below for the purpose of estimating belt drive losses. To calculate total BHP (including drive losses): Find the BHP of your operating point on the x-axis on the graph below. Follow the vertical line to the curves indicating the range of drive losses. Look at the y-axis on the left and find the drive loss percentage. Calculate the total BHP by adding the drive loss to the operating point BHP. For BHP's below 0.3, use 30%.

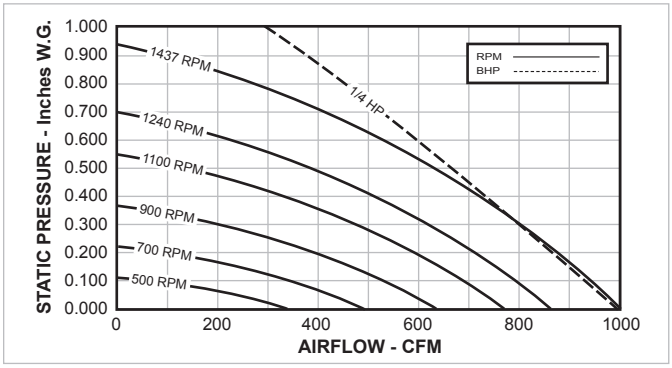
Drive Loss Reference Chart



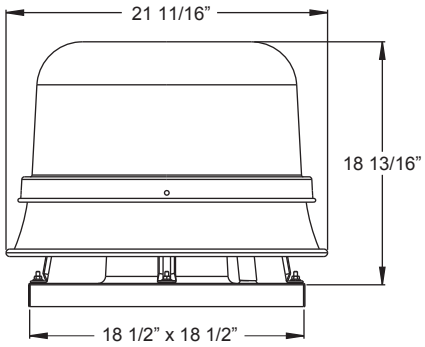
For totally enclosed, explosion proof, multi-speed and all 1.0 Service Factor motors, fan BHP plus drive losses should not exceed motor rated HP.

Graph reprinted from AMCA publication 203, with the express written permission from the Air Movement and Control Association, Inc., 30 West University Drive, Arlington Heights, IL 60004-1983.

DX06B | BELT DRIVE



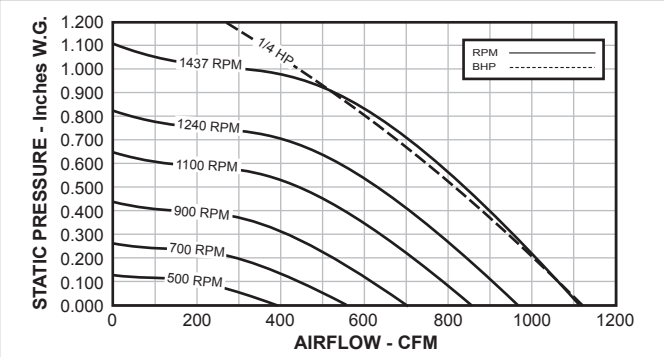
Galv. Steel Base = 16 Gage
Aluminum Base = 0.064"
Discharge Apron = 0.05"
Hood = 0.064"
Roof/Wall Opening = 11 ½" SQ.
Damper Size = 11 ¼" SQ.
Max. Motor Frame Size = 42
Peak BHP = $(RPM/2232)^3$
Max. RPM = 1437 (1/4 HP)
Est. Ship Weight = 35 lbs.



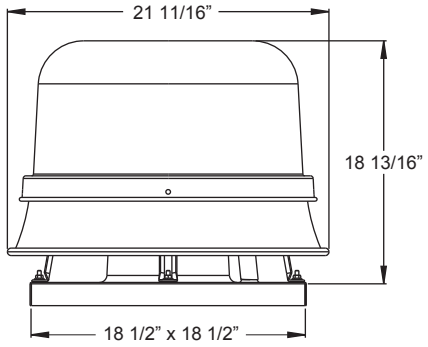
HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	375	1092	264		-		-		-		-		-	
			1.6	0.01	-		-		-		-		-	
	430	1252	302		-		-		-		-		-	
			1.8	0.01	-		-		-		-		-	
	475	1383	334		-		-		-		-		-	
			2.1	0.01	-		-		-		-		-	
	520	1515	366		-		-		-		-		-	
			2.2	0.01	-		-		-		-		-	
	565	1646	397		-		-		-		-		-	
			2.4	0.02	-		-		-		-		-	
	610	1777	429		179		-		-		-		-	
			2.9	0.02	2.5	0.02	-		-		-		-	
	655	1908	461		244		-		-		-		-	
			3.1	0.02	2.6	0.02	-		-		-		-	
	700	2039	492		298		-		-		-		-	
			3.4	0.03	2.9	0.03	-		-		-		-	
	745	2170	524		347		-		-		-		-	
			3.7	0.04	3.2	0.03	-		-		-		-	
	790	2301	556		394		114		-		-		-	
			4.0	0.04	3.5	0.04	3.1	0.04	-		-		-	
	835	2432	587		438		209		-		-		-	
			4.4	0.05	3.8	0.05	3.5	0.04	-		-		-	
	880	2563	619		480		279		-		-		-	
			4.8	0.06	4.3	0.06	3.7	0.05	-		-		-	
	925	2694	651		519		344		-		-		-	
			5.2	0.07	4.7	0.07	4.1	0.06	-		-		-	
	970	2825	683		558		398		146		-		-	
			5.9	0.08	5.3	0.08	4.6	0.07	4.4	0.05	-		-	
	1015	2956	714		597		450		243		-		-	
			6.4	0.09	5.8	0.09	5.2	0.08	4.8	0.07	-		-	
	1060	3087	746		635		498		315		-		-	
			6.5	0.11	6.0	0.10	5.3	0.10	4.9	0.08	-		-	
	1105	3218	778		674		544		382		131		-	
			6.8	0.12	6.3	0.12	5.7	0.11	5.1	0.10	4.9	0.07	-	
	1150	3349	809		712		590		442		241		-	
			7.2	0.13	6.7	0.13	6.1	0.13	5.5	0.12	5.1	0.10	-	
	1195	3480	841		749		634		496		318		-	
			7.7	0.15	7.2	0.15	6.5	0.14	5.9	0.13	5.4	0.12	-	
	1240	3612	873		783		675		547		389		158	
			8.2	0.17	7.6	0.17	6.9	0.16	6.4	0.15	5.8	0.14	5.3	0.11
	1280	3728	901		814		710		590		447		256	
			8.4	0.19	7.9	0.18	7.3	0.18	6.7	0.17	6.3	0.16	5.9	0.13
	1320	3845	929		845		745		633		501		330	
			8.8	0.20	8.2	0.20	7.6	0.20	7.1	0.19	6.7	0.18	6.4	0.15
	1350	3932	950		868		771		664		537		378	
			9.1	0.22	8.5	0.22	8.0	0.21	7.4	0.20	7.0	0.19	6.8	0.17
	1390	4048	978		898		805		704		585		440	
			9.5	0.24	9.1	0.24	8.4	0.23	7.9	0.22	7.5	0.21	7.3	0.19
	1420	4136	999		921		830		734		619		484	
			9.9	0.25	9.4	0.25	8.8	0.25	8.3	0.24	7.8	0.23	7.8	0.21
	1437	4185	1011		933		845		750		638		509	
			10.1	0.26	9.5	0.26	9.1	0.25	8.5	0.25	8.0	0.24	7.9	0.22

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5'0' (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

DX08B | BELT DRIVE



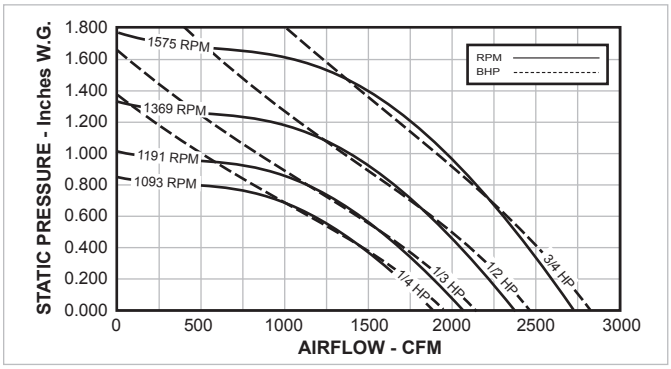
Galv. Steel Base = 16 Gage
Aluminum Base = 0.064"
Discharge Apron = 0.064"
Hood = 0.064"
Roof/Wall Opening = 11 ½" SQ.
Damper Size = 11 ¼" SQ.
Max. Motor Frame Size = 42
Peak BHP = $(RPM/2232)^3$
Max. RPM = 1437 (1/4 HP)
Est. Ship Weight = 35 lbs.



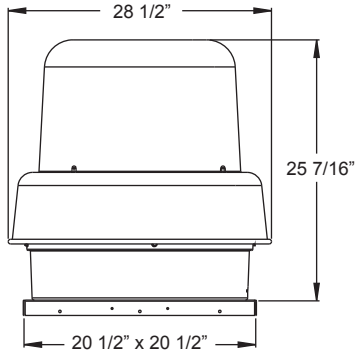
HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	375	1150	289	1.4 0.01	-	-	-	-	-	-	-	-	-	-	-	-
	430	1319	331	1.7 0.01	-	-	-	-	-	-	-	-	-	-	-	-
	475	1457	366	2.0 0.01	-	-	-	-	-	-	-	-	-	-	-	-
	520	1595	401	2.2 0.01	155	1.7 0.01	-	-	-	-	-	-	-	-	-	-
	565	1733	435	2.5 0.02	242	1.9 0.02	-	-	-	-	-	-	-	-	-	-
	610	1871	470	3.1 0.02	301	2.4 0.02	-	-	-	-	-	-	-	-	-	-
	655	2009	505	3.4 0.02	351	2.7 0.02	-	-	-	-	-	-	-	-	-	-
	700	2147	540	3.8 0.03	399	3.1 0.03	-	-	-	-	-	-	-	-	-	-
	745	2285	574	4.3 0.03	444	3.5 0.04	247	3.0 0.03	-	-	-	-	-	-	-	-
	790	2424	609	4.6 0.04	487	3.9 0.04	330	3.3 0.04	-	-	-	-	-	-	-	-
	835	2562	644	5.0 0.05	530	4.2 0.05	393	3.6 0.05	-	-	-	-	-	-	-	-
	880	2700	678	5.5 0.06	571	4.7 0.06	446	4.0 0.06	207	3.6 0.05	-	-	-	-	-	-
	925	2838	713	6.0 0.07	611	5.2 0.07	496	4.5 0.07	329	4.0 0.07	-	-	-	-	-	-
	970	2976	748	6.7 0.08	651	5.9 0.08	543	5.2 0.08	408	4.5 0.08	-	-	-	-	-	-
	1015	3114	783	7.2 0.09	691	6.5 0.09	590	5.8 0.09	471	5.1 0.09	236	4.8 0.08	-	-	-	-
	1060	3252	817	7.5 0.10	730	6.8 0.10	635	6.2 0.11	526	5.6 0.11	364	5.2 0.10	-	-	-	-
	1105	3390	852	8.0 0.11	769	7.2 0.12	678	6.6 0.12	577	6.0 0.12	449	5.5 0.12	-	-	-	-
	1150	3258	887	8.8 0.13	808	7.9 0.13	720	7.3 0.13	626	6.7 0.13	514	6.2 0.13	309	5.8 0.12	-	-
	1195	3666	921	9.8 0.14	846	8.8 0.15	762	8.1 0.15	673	7.6 0.15	575	7.1 0.15	426	6.7 0.14	-	-
	1240	3804	956	10.4 0.16	885	9.4 0.16	803	8.6 0.17	719	8.1 0.17	626	7.7 0.17	509	7.4 0.16	279	6.8 0.14
	1280	3927	687	10.5 0.17	918	9.6 0.18	840	8.9 0.18	760	8.3 0.19	670	7.9 0.19	566	7.6 0.18	398	7.3 0.17
	1320	4049	1018	10.8 0.19	952	10.0 0.20	875	9.3 0.20	798	8.7 0.20	714	8.3 0.20	622	8.0 0.20	488	7.9 0.19
	1350	4141	1041	11.1 0.21	977	10.4 0.21	902	9.7 0.21	827	9.0 0.22	746	8.7 0.22	658	8.5 0.22	544	8.3 0.21
	1390	4264	1072	11.7 0.22	1010	11.1 0.23	937	10.3 0.23	865	9.7 0.23	787	9.1 0.24	704	9.1 0.24	603	9.0 0.23
	1420	4356	1095	12.3 0.24	1035	11.6 0.24	964	10.9 0.25	893	10.3 0.25	818	9.6 0.25	737	9.6 0.25	645	9.6 0.25
	1437	4408	1108	12.5 0.25	1049	11.8 0.25	979	11.1 0.26	909	10.5 0.26	836	9.9 0.26	756	9.8 0.26	669	9.8 0.26

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5'0' (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

DX11B | BELT DRIVE



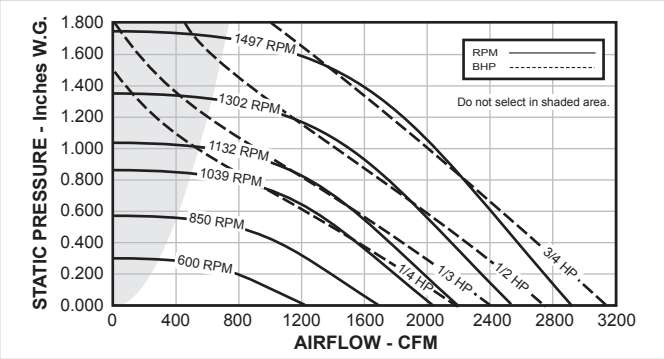
Galv. Steel Base = 16 Gage
Aluminum Base = 0.064”
Hood / Apron = 0.08”
Roof/Wall Opening = 16” SQ.
Damper Size = 15 ¾” SQ.
Max. Motor Frame Size = 56
Peak BHP = (RPM/1700)^3
Max. RPM = 1810 (3/4 HP)
Est. Ship Weight = 55 lbs.



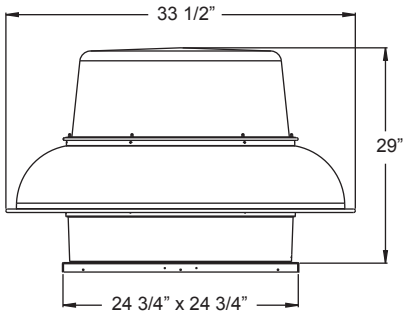
HP	RPM	Tip Speed FPM	0.000” SP		0.125” SP		0.250” SP		0.375” SP		0.500” SP		0.625” SP		0.750” SP		0.875” SP		1.000” SP		1.125” SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	650	2345	1120		905		535		-		-		-		-		-		-		-	
			4.7	0.05	4.1	0.05	3.4	0.05	-		-		-		-		-		-		-	
	675	2435	1164		959		638		-		-		-		-		-		-		-	
			4.9	0.05	4.3	0.06	3.6	0.06	-		-		-		-		-		-		-	
	700	2526	1207		1011		737		-		-		-		-		-		-		-	
			5.1	0.06	4.6	0.07	3.9	0.07	-		-		-		-		-		-		-	
	725	2616	1250		1062		813		-		-		-		-		-		-		-	
			5.5	0.07	4.9	0.07	4.3	0.08	-		-		-		-		-		-		-	
	750	2706	1293		1113		880		252		-		-		-		-		-		-	
			5.8	0.07	5.3	0.08	4.7	0.09	4.1	0.05	-		-		-		-		-		-	
	800	2886	1379		1213		1007		672		-		-		-		-		-		-	
			6.6	0.09	6.1	0.10	5.5	0.10	5.0	0.10	-		-		-		-		-		-	
	825	2976	1422		1263		1067		775		-		-		-		-		-		-	
			6.8	0.10	6.3	0.10	5.7	0.11	5.2	0.11	-		-		-		-		-		-	
	850	3067	1465		1312		1126		874		-		-		-		-		-		-	
			7.0	0.11	6.5	0.11	5.9	0.12	5.4	0.12	-		-		-		-		-		-	
	900	3247	1552		1407		1238		1028		665		-		-		-		-		-	
			7.8	0.13	7.2	0.13	6.5	0.14	6.0	0.15	5.7	0.13	-		-		-		-		-	
	950	3427	1638		1502		1347		1159		884		-		-		-		-		-	
			8.5	0.15	7.9	0.16	7.3	0.16	6.7	0.17	6.3	0.17	-		-		-		-		-	
	1000	3608	1724		1596		1451		1282		1080		706		-		-		-		-	
			9.2	0.17	8.7	0.18	8.0	0.19	7.3	0.20	7.0	0.20	6.8	0.18	-		-		-		-	
	1050	3788	1810		1689		1553		1400		1217		939		-		-		-		-	
			9.7	0.20	9.2	0.21	8.5	0.22	7.8	0.23	7.4	0.23	7.1	0.22	-		-		-		-	
	1075	3878	1853		1735		1603		1456		1284		1040		647		-		-		-	
			10.0	0.21	9.4	0.23	8.8	0.23	8.1	0.24	7.7	0.25	7.4	0.25	7.5	0.21	-		-		-	
	1093	3943	1884		1768		1639		1496		1329		1111		758		-		-		-	
			10.2	0.23	9.6	0.24	9.1	0.24	8.3	0.26	7.9	0.26	7.7	0.26	7.7	0.23	-		-		-	
1/3	1125	4059	1940		1827		1703		1566		1408		1227		924		-		-		-	
			10.6	0.25	10.0	0.26	9.5	0.27	8.8	0.27	8.2	0.29	8.0	0.29	8.1	0.27	-		-		-	
	1150	4149	1983		1873		1753		1621		1469		1296		1028		489		-		-	
			11.0	0.26	10.4	0.27	9.8	0.28	9.1	0.29	8.5	0.31	8.3	0.31	8.3	0.29	8.4	0.21	-		-	
	1191	4297	2053		1948		1834		1708		1568		1406		1193		883		-		-	
			11.5	0.29	11.0	0.30	10.5	0.31	9.8	0.32	9.0	0.34	8.8	0.34	8.6	0.34	8.6	0.31	-		-	
1/2	1220	4402	2103		2001		1889		1767		1634		1481		1306		1019		-		-	
			11.9	0.31	11.4	0.33	10.9	0.34	10.2	0.34	9.6	0.36	9.2	0.37	9.0	0.37	8.9	0.34	-		-	
	1250	4510	2155		2056		1947		1829		1700		1555		1393		1142		801		-	
			12.4	0.34	11.9	0.35	11.4	0.36	10.8	0.37	10.0	0.38	9.6	0.39	9.4	0.39	9.3	0.38	9.3	0.33	-	
	1300	4690	2241		2147		2042		1930		1811		1677		1528		1342		1071		-	
			13.0	0.38	12.6	0.39	12.2	0.40	11.6	0.41	10.9	0.42	10.2	0.44	10.1	0.44	9.9	0.44	9.9	0.42	-	
	1369	4939	2360		2271		2172		2069		1959		1838		1703		1556		1352		1095	
			14.0	0.44	13.6	0.46	13.2	0.47	12.8	0.48	12.1	0.49	11.4	0.51	11.0	0.52	10.8	0.52	10.9	0.51	10.9	0.48
3/4	1380	4979	2379		2290		2193		2091		1982		1862		1730		1585		1396		1141	
			14.1	0.45	13.8	0.47	13.4	0.48	13.0	0.49	12.3	0.50	11.6	0.52	11.1	0.53	10.9	0.53	11.0	0.52	11.1	0.50
	1410	5087	2431		2344		2249		2150		2044		1929		1803		1666		1513		1265	
			14.6	0.48	14.2	0.50	13.8	0.51	13.5	0.52	12.8	0.53	12.1	0.55	11.5	0.56	11.4	0.56	11.4	0.57	11.5	0.54
	1470	5304	2535		2451		2361		2268		2166		2061		1946		1818		1681		1505	
			15.6	0.55	15.2	0.56	14.8	0.58	14.5	0.58	13.9	0.60	13.2	0.61	12.6	0.64	12.3	0.64	12.2	0.64	12.3	0.63
	1500	5412	2586		2504		2416		2325		2227		2126		2014		1892		1761		1620	
			16.1	0.58	15.8	0.60	15.4	0.61	15.1	0.62	14.5	0.63	13.9	0.64	13.2	0.67	12.8	0.68	12.7	0.68	12.8	0.68
	1575	5682	2716		2638		2555		2468		2377		2282		2180		2073		1952		1825	
			17.4	0.67	17.2	0.69	16.9	0.71	16.6	0.72	16.3	0.73	15.6	0.74	15.0	0.76	14.4	0.78	14.3	0.79	14.3	0.79

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5’0’ (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

DX12B | BELT DRIVE



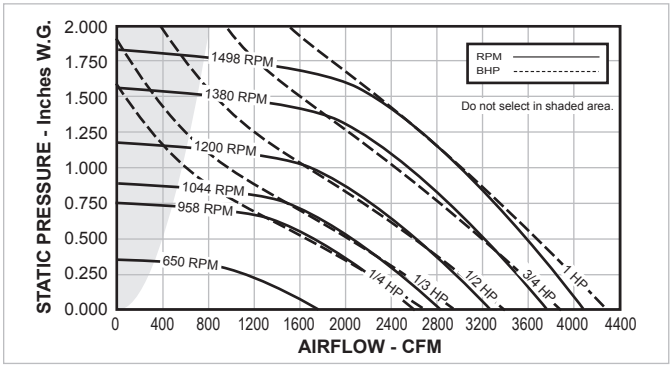
Galv. Steel Base = 16 Gage
Aluminum Base = 0.064”
Hood / Apron = 0.09”
Roof/Wall Opening = 16” SQ.
Damper Size = 15 ¾” SQ.
Max. Motor Frame Size = 56
Peak BHP = (RPM/1617)^3
Max. RPM = 2000 (1 ½ HP)
Est. Ship Weight = 98 lbs.



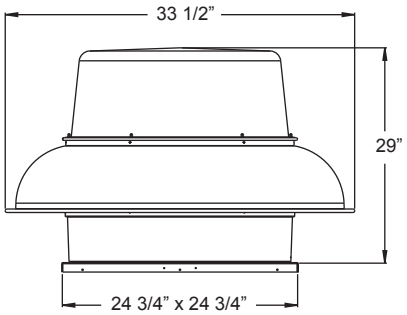
HP	RPM	Tip Speed FPM	0.000” SP		0.125” SP		0.250” SP		0.375” SP		0.500” SP		0.625” SP		0.750” SP		0.875” SP		1.000” SP		1.250” SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	400	1662	780		-		-		-		-		-		-		-		-		-	
			2.9	0.01	-		-		-		-		-		-		-		-		-	
	500	2078	975		654		-		-		-		-		-		-		-		-	
			4.9	0.02	4.2	0.03	-		-		-		-		-		-		-		-	
	600	2494	1170		922		538		-		-		-		-		-		-		-	
			7.1	0.04	6.6	0.05	6.1	0.05	-		-		-		-		-		-		-	
	700	2909	1365		1151		903		-		-		-		-		-		-		-	
			9.4	0.06	8.7	0.07	8.5	0.08	-		-		-		-		-		-		-	
	800	3325	1561		1375		1182		929		-		-		-		-		-		-	
			11.0	0.09	10.2	0.11	10.0	0.12	9.6	0.12	-		-		-		-		-		-	
	850	3533	1658		1485		1308		1084		769		-		-		-		-		-	
			11.5	0.11	10.8	0.13	10.4	0.14	10.2	0.14	9.6	0.12	-		-		-		-		-	
	900	3740	1756		1595		1425		1232		985		-		-		-		-		-	
			12.2	0.13	11.5	0.15	11.0	0.16	10.8	0.17	10.3	0.17	-		-		-		-		-	
	950	3948	1853		1703		1538		1371		1155		858		-		-		-		-	
			12.9	0.16	12.3	0.17	11.6	0.18	11.4	0.19	11.0	0.20	10.4	0.19	-		-		-		-	
	1000	4156	1951		1811		1650		1499		1308		1076		553		-		-		-	
			13.3	0.18	12.8	0.20	12.1	0.21	11.7	0.22	11.4	0.23	11.1	0.23	10.1	0.19	-		-		-	
	1039	4318	2027		1894		1737		1597		1422		1219		930		-		-		-	
			13.7	0.21	13.2	0.22	12.6	0.24	12.2	0.25	11.7	0.26	11.6	0.26	11.2	0.25	-		-		-	
1/3	1055	4385	2058		1928		1774		1636		1468		1269		1011		-		-		-	
			13.8	0.21	13.4	0.23	12.8	0.25	12.4	0.26	11.9	0.27	11.7	0.28	11.5	0.27	-		-		-	
	1075	4468	2097		1970		1819		1683		1525		1331		1094		524		-		-	
			14.1	0.23	13.6	0.24	13.1	0.26	12.6	0.27	12.2	0.28	12.0	0.29	11.8	0.29	10.8	0.23	-		-	
	1100	4572	2146		2023		1875		1740		1591		1408		1197		855		-		-	
			14.5	0.24	13.9	0.26	13.4	0.28	12.9	0.29	12.5	0.30	12.3	0.31	12.2	0.31	11.7	0.29	-		-	
	1132	4705	2208		2091		1946		1813		1673		1503		1316		1058		-		-	
			15.0	0.27	14.4	0.28	13.9	0.30	13.4	0.31	13.0	0.33	12.7	0.34	12.6	0.34	12.5	0.33	-		-	
1/2	1150	4779	2244		2128		1986		1854		1719		1556		1373		1136		572		-	
			15.3	0.28	14.7	0.29	14.2	0.31	13.7	0.33	13.3	0.34	12.9	0.35	12.9	0.36	12.9	0.35	12.0	0.28	-	
	1175	4883	2292		2180		2041		1910		1782		1629		1451		1239		906		-	
			15.7	0.30	15.2	0.31	14.6	0.33	14.2	0.35	13.7	0.36	13.3	0.37	13.2	0.38	13.3	0.38	12.9	0.35	-	
	1200	4987	2341		2231		2096		1966		1844		1700		1527		1341		1076		-	
			16.3	0.32	15.8	0.33	15.2	0.35	14.7	0.37	14.3	0.38	13.8	0.39	13.7	0.40	13.7	0.41	13.6	0.39	-	
	1250	5195	2439		2333		2206		2077		1963		1831		1676		1507		1300		-	
			17.2	0.36	16.8	0.37	16.2	0.40	15.7	0.42	15.1	0.43	14.7	0.44	14.4	0.45	14.4	0.46	14.5	0.45	-	
	1275	5299	2488		2384		2260		2134		2021		1895		1749		1585		1402		-	
			17.7	0.38	17.2	0.39	16.7	0.42	16.1	0.44	15.5	0.45	14.9	0.47	14.5	0.48	14.6	0.48	14.7	0.48	-	
	1302	5411	2540		2439		2319		2195		2082		1963		1827		1668		1503		869	
			18.1	0.40	17.6	0.42	17.1	0.44	16.6	0.46	16.0	0.48	15.4	0.49	14.7	0.51	14.7	0.52	14.9	0.52	14.5	0.45
3/4	1325	5507	2585		2486		2369		2247		2134		2021		1891		1736		1576		1106	
			18.5	0.43	18.0	0.44	17.5	0.46	17.0	0.49	16.4	0.50	15.8	0.52	15.2	0.53	14.8	0.54	15.0	0.55	15.1	0.51
	1350	5611	2634		2536		2423		2303		2190		2083		1956		1810		1654		1248	
			18.9	0.45	18.4	0.47	17.9	0.49	17.4	0.51	16.8	0.53	16.3	0.54	15.7	0.56	15.2	0.57	15.1	0.58	15.6	0.56
	1400	5818	2731		2637		2530		2414		2302		2201		2084		1955		1807		1463	
			19.9	0.50	19.4	0.52	18.8	0.54	18.3	0.57	17.7	0.59	17.2	0.60	16.7	0.62	16.1	0.63	15.9	0.64	16.2	0.64
	1425	5922	2780		2688		2584		2469		2357		2258		2147		2026		1882		1566	
			20.0	0.53	19.9	0.55	19.3	0.57	18.7	0.60	18.2	0.62	17.7	0.63	17.2	0.65	16.6	0.66	16.2	0.67	16.3	0.68
	1450	6026	2829		2738		2637		2524		2413		2315		2210		2092		1955		1663	
			21.0	0.56	20.0	0.58	19.9	0.60	19.3	0.62	18.7	0.65	18.2	0.66	17.6	0.68	17.1	0.69	16.6	0.70	16.6	0.72
	1497	6222	2921		2833		2737		2627		2520		2421		2327		2212		2091		1811	
			22.0	0.61	21.0	0.63	21.0	0.65	20.0	0.68	19.7	0.71	19.2	0.72	18.7	0.74	18.1	0.75	17.5	0.77	17.3	0.79

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5'0' (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

DX14B | BELT DRIVE



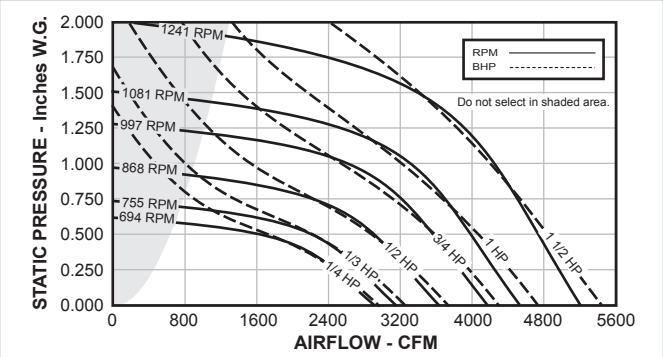
Galv. Steel Base = 16 Gage
Aluminum Base = 0.064”
Hood / Apron = 0.09”
Roof/Wall Opening = 16” SQ.
Damper Size = 15 ¾” SQ.
Max. Motor Frame Size = 56
Peak BHP = (RPM/1493)^3
Max. RPM = 1793 (1 ½ HP)
Est. Ship Weight = 98 lbs.



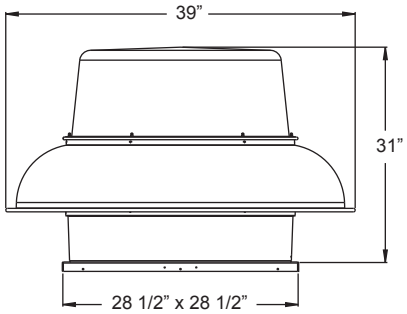
HP	RPM	Tip Speed FPM	0.000” SP		0.125” SP		0.250” SP		0.375” SP		0.500” SP		0.625” SP		0.750” SP		1.000” SP		1.250” SP		1.500” SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	350	1455	952		-		-		-		-		-		-		-		-		-	
			1.6	0.01	-		-		-		-		-		-		-		-		-	
	400	1662	1088		221		-		-		-		-		-		-		-		-	
			2.5	0.02	3.0	0.01	-		-		-		-		-		-		-		-	
	515	2140	1401		994		-		-		-		-		-		-		-		-	
			4.8	0.04	4.5	0.04	-		-		-		-		-		-		-		-	
	680	2826	1849		1582		1212		-		-		-		-		-		-		-	
			7.3	0.08	6.7	0.09	6.0	0.09	-		-		-		-		-		-		-	
	842	3499	2290		2077		1835		1522		1104		-		-		-		-		-	
			9.7	0.15	9.0	0.17	8.3	0.18	7.4	0.18	6.3	0.17	-		-		-		-		-	
	910	3782	2475		2276		2070		1793		1495		831		-		-		-		-	
			10.7	0.19	10.1	0.21	9.5	0.22	8.8	0.23	7.6	0.22	6.9	0.18	-		-		-		-	
	958	3982	2606		2415		2226		1977		1699		1355		-		-		-		-	
			11.8	0.23	11.2	0.24	10.6	0.26	10.0	0.26	8.8	0.26	7.6	0.25	-		-		-		-	
1/3	1000	4156	2720		2536		2360		2135		1870		1588		1033		-		-		-	
			12.6	0.26	12.0	0.27	11.4	0.29	10.8	0.30	9.8	0.30	8.5	0.29	7.9	0.25	-		-		-	
	1020	4239	2774		2593		2424		2208		1949		1684		1250		-		-		-	
			12.9	0.27	12.3	0.29	11.8	0.30	11.1	0.32	10.2	0.32	8.9	0.31	8.1	0.29	-		-		-	
	1044	4339	2840		2662		2499		2292		2044		1788		1445		-		-		-	
			13.1	0.29	12.6	0.31	12.1	0.33	11.4	0.34	10.7	0.34	9.4	0.34	8.4	0.32	-		-		-	
1/2	1060	4405	2883		2708		2549		2348		2106		1854		1561		-		-		-	
			13.4	0.31	12.8	0.32	12.4	0.34	11.7	0.35	11.0	0.36	9.8	0.35	8.7	0.34	-		-		-	
	1095	4551	2978		2809		2654		2469		2240		1998		1738		-		-		-	
			14.2	0.34	13.7	0.35	13.2	0.37	12.6	0.39	11.9	0.39	10.7	0.39	9.5	0.38	-		-		-	
	1130	4696	3074		2909		2758		2586		2373		2138		1901		610		-		-	
			15.2	0.37	14.6	0.39	14.1	0.41	13.6	0.42	12.8	0.43	11.9	0.43	10.5	0.43	9.3	0.25	-		-	
	1160	4821	3155		2995		2847		2683		2484		2257		2027		1251		-		-	
			16.0	0.40	15.5	0.42	15.1	0.44	14.5	0.46	13.8	0.47	12.9	0.47	11.5	0.46	9.8	0.40	-		-	
	1190	4946	3237		3081		2936		2780		2592		2373		2150		1556		-		-	
			17.0	0.44	16.4	0.45	16.0	0.47	15.5	0.49	14.8	0.50	14.0	0.51	12.6	0.50	10.4	0.47	-		-	
	1200	4987	3264		3109		2965		2812		2627		2412		2191		1629		-		-	
			17.3	0.45	16.8	0.46	16.3	0.48	15.8	0.50	15.1	0.52	14.4	0.52	12.9	0.52	10.6	0.49	-		-	
3/4	1218	5062	3313		3160		3018		2869		2690		2481		2263		1759		-		-	
			17.7	0.47	17.2	0.48	16.7	0.50	16.2	0.52	15.6	0.54	14.8	0.54	13.5	0.54	11.0	0.52	-		-	
	1285	5341	3495		3351		3213		3081		2921		2733		2528		2105		1072		-	
			18.5	0.55	18.0	0.56	17.5	0.58	17.1	0.61	16.5	0.63	15.8	0.64	15.1	0.40	12.6	0.62	11.8	0.47	-	
	1315	5465	3577		3435		3300		3173		3019		2844		2644		2238		1594		-	
			18.7	0.59	18.2	0.60	17.7	0.62	17.3	0.65	16.8	0.67	16.2	0.68	15.5	0.68	13.3	0.67	12.2	0.62	-	
	1345	5590	3659		3520		3387		3262		3116		2949		2759		2363		1845		-	
			19.0	0.63	18.5	0.65	18.1	0.67	17.7	0.69	17.2	0.71	16.6	0.73	16.0	0.73	14.0	0.72	12.5	0.69	-	
	1380	5735	3754		3619		3488		3367		3229		3071		2891		2507		2080		699	
			19.5	0.68	19.1	0.70	18.6	0.72	18.2	0.74	17.8	0.76	17.2	0.78	16.6	0.79	14.9	0.79	13.1	0.76	12.9	0.45
1	1400	5818	3808		3675		3546		3426		3293		3140		2966		2587		2178		939	
			19.9	0.71	19.4	0.73	19.0	0.75	18.6	0.77	18.2	0.79	17.6	0.81	17.0	0.82	15.5	0.82	13.6	0.80	13.2	0.53
	1425	5922	3876		3746		3617		3500		3372		3226		3059		2687		2298		1579	
			20.0	0.75	20.0	0.77	19.5	0.79	19.2	0.81	18.8	0.83	18.2	0.86	17.6	0.87	16.2	0.87	14.3	0.85	13.6	0.76
	1450	6026	3944		3816		3689		3574		3451		3309		3149		3786		2417		1848	
			21.0	0.79	21.0	0.81	20.0	0.83	19.7	0.85	19.3	0.87	18.8	0.90	18.2	0.91	16.8	0.91	15.0	0.90	14.0	0.85
	1475	6130	4012		3886		3761		3647		3530		3391		3236		2885		2523		2033	
			22.0	0.83	21.0	0.85	21.0	0.87	20.0	0.89	19.8	0.92	19.3	0.94	18.8	0.96	17.5	0.96	15.7	0.95	14.2	0.91
	1498	6226	4075		3951		3826		3714		3602		3465		3317		2974		2618		2200	
			22.0	0.87	22.0	0.89	21.0	0.91	21.0	0.93	20.0	0.96	19.8	0.98	19.3	1.00	18.1	1.01	16.3	1.00	14.6	0.97

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5’0’ (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

DX16B | BELT DRIVE



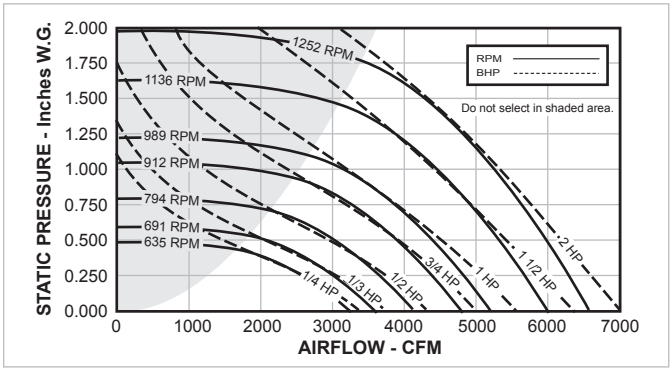
Galv. Steel Base = 14 Gage
Aluminum Base = 0.08”
Discharge Apron = 0.064”
Hood = 0.08”
Roof/Wall Opening = 20” SQ.
Damper Size = 19 ¾” SQ.
Max. Motor Frame Size = 145T
Peak BHP = (RPM/1078)^3
Max. RPM = 1631 (3 HP)
Est. Ship Weight = 131 lbs.



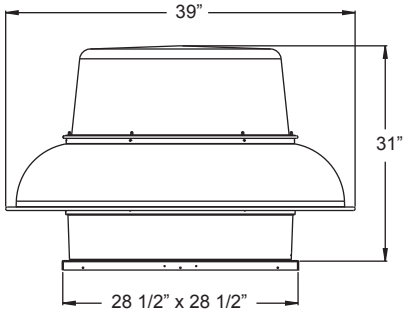
HP	RPM	Tip Speed FPM	0.000” SP		0.125” SP		0.250” SP		0.375” SP		0.500” SP		0.625” SP		0.750” SP		1.000” SP		1.250” SP		1.500” SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	300	1468	1248		-		-		-		-		-		-		-		-		-	
			3.1	0.02	-		-		-		-		-		-		-		-		-	
	450	2202	1873		1531		511		-		-		-		-		-		-		-	
			5.2	0.06	4.5	0.07	4.4	0.05	-		-		-		-		-		-		-	
	600	2936	2497		2250		1980		1465		-		-		-		-		-		-	
			8.8	0.15	8.3	0.16	7.9	0.17	7.4	0.16	-		-		-		-		-		-	
	650	3180	2705		2478		2233		1935		1029		-		-		-		-		-	
			9.7	0.19	9.1	0.20	8.8	0.21	8.5	0.22	7.8	0.17	-		-		-		-		-	
	694	3395	2889		2677		2450		2212		1707		-		-		-		-		-	
			10.4	0.23	10.0	0.24	9.7	0.26	9.3	0.27	8.8	0.25	-		-		-		-		-	
1/3	715	3498	2976		2772		2552		2323		1948		907		-		-		-		-	
			10.9	0.25	10.5	0.27	10.1	0.28	9.8	0.29	9.2	0.29	8.9	0.20	-		-		-		-	
	735	3596	3059		2861		2648		2426		2120		1302		-		-		-		-	
			11.5	0.27	11.0	0.29	10.6	0.30	10.2	0.31	9.7	0.32	9.2	0.26	-		-		-		-	
	755	3694	3142		2950		2744		2528		2266		1620		-		-		-		-	
			11.9	0.30	11.6	0.31	11.1	0.33	10.7	0.34	10.3	0.34	9.7	0.31	-		-		-		-	
1/2	775	3792	3226		3039		2839		2629		2397		1897		766		-		-		-	
			12.3	0.32	11.9	0.34	11.6	0.35	11.2	0.36	10.7	0.37	10.1	0.35	9.9	0.22	-		-		-	
	800	3914	3330		3150		2957		2755		2546		2183		1334		-		-		-	
			12.8	0.35	12.4	0.37	12.0	0.38	11.7	0.40	11.3	0.41	10.6	0.40	10.3	0.40	-		-		-	
	825	4036	3434		3259		3073		2878		2679		2396		1744		-		-		-	
			13.3	0.39	12.9	0.40	12.5	0.42	12.2	0.43	11.8	0.45	11.2	0.45	10.7	0.40	-		-		-	
	850	4159	3538		3368		3188		3001		2808		2575		2091		-		-		-	
			13.8	0.42	13.5	0.44	13.1	0.46	12.7	0.47	12.3	0.49	11.9	0.49	11.2	0.46	-		-		-	
	868	4247	3613		3447		3271		3088		2900		2690		2314		-		-		-	
			14.3	0.45	13.9	0.47	13.5	0.49	13.2	0.50	12.8	0.51	12.3	0.52	11.6	0.51	-		-		-	
3/4	895	4379	3725		3564		3395		3218		3037		2850		2556		887		-		-	
			15.0	0.49	14.6	0.51	14.2	0.53	13.9	0.55	13.5	0.56	13.0	0.57	12.4	0.57	11.9	0.35	-		-	
	925	4526	3850		3694		3531		3362		3187		3009		2778		1563		-		-	
			15.8	0.54	15.4	0.56	15.0	0.58	14.7	0.60	14.3	0.62	13.9	0.63	13.3	0.63	12.5	0.50	-		-	
	950	4648	3954		3803		3644		3481		3311		3138		2941		1974		-		-	
			16.5	0.59	16.1	0.61	15.8	0.63	15.4	0.65	15.0	0.66	15.0	0.68	14.2	0.69	13.1	0.60	-		-	
	975	4770	4058		3911		3757		3599		3433		3266		3090		2331		-		-	
			17.1	0.64	16.7	0.66	16.4	0.68	16.0	0.70	15.7	0.71	15.3	0.73	14.8	0.74	13.6	0.69	-		-	
	997	4878	4150		4005		3856		3701		3540		3377		3212		2608		-		-	
			17.4	0.68	17.1	0.70	16.7	0.72	16.4	0.74	16.0	0.76	15.7	0.78	15.2	0.79	13.9	0.77	-		-	
1	1025	5015	4266		4126		3982		3831		3676		3518		3357		2880		1573		-	
			17.9	0.74	17.6	0.76	17.2	0.78	16.9	0.80	16.5	0.82	16.2	0.84	15.8	0.85	14.6	0.86	14.1	0.65	-	
	1055	5162	4391		4255		4116		3969		3820		3667		3511		3115		2100		-	
			18.5	0.81	18.1	0.83	17.8	0.85	17.4	0.87	17.1	0.89	16.7	0.91	16.3	0.93	15.4	0.94	14.4	0.81	-	
	1081	5289	4500		4366		4231		4088		3943		3794		3643		3299		2484		-	
			18.9	0.87	18.6	0.89	18.3	0.92	17.9	0.94	17.6	0.96	17.2	0.97	16.8	0.99	15.9	1.01	14.7	0.93	-	
1 1/2	1115	5455	4641		4512		4382		4244		4104		3960		3814		3504		2920		1562	
			19.8	0.95	19.4	0.98	19.1	1.00	18.7	1.02	18.4	1.04	18.1	1.06	17.6	1.08	16.7	1.11	15.3	1.08	15.1	0.80
	1150	5626	4787		4662		4536		4403		4268		4129		3989		3703		3256		2209	
			21.0	1.04	20.0	1.07	20.0	1.10	19.7	1.12	19.3	1.14	19.0	1.16	18.6	1.18	17.7	1.21	16.5	1.21	15.6	1.03
	1180	5773	4912		4790		4668		4538		4407		4273		4136		3858		3486		2664	
			22.0	1.13	21.0	1.16	21.0	1.18	21.0	1.21	20.0	1.23	19.8	1.25	19.4	1.27	18.6	1.30	17.5	1.32	16.2	1.19
	1210	5920	5037		4918		4798		4673		4546		4416		4282		4012		3698		3056	
			22.0	1.22	22.0	1.24	22.0	1.27	21.0	1.30	21.0	1.32	21.0	1.34	20.0	1.36	19.3	1.40	18.4	1.42	16.8	1.36
	1241	6072	5166		5050		4933		4812		4688		4563		4432		4170		3884		3398	
			23.0	1.31	23.0	1.34	22.0	1.37	22.0	1.39	22.0	1.42	21.0	1.44	21.0	1.46	20.0	1.50	19.1	1.53	17.8	1.51

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5’0’ (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

DX18B | BELT DRIVE



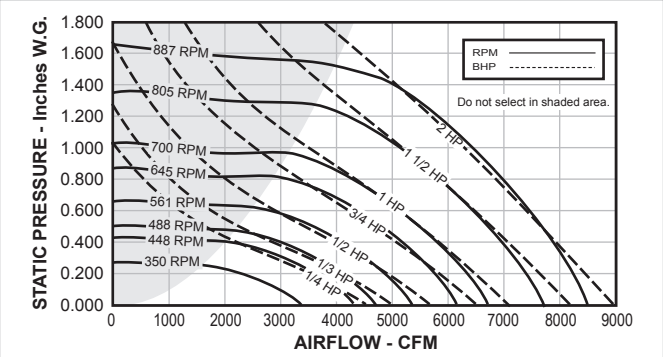
Galv. Steel Base = 14 Gage
Aluminum Base = 0.08"
Discharge Apron = 0.064"
Hood = 0.08"
Roof/Wall Opening = 20" SQ.
Damper Size = 19 ¾" SQ.
Max. Motor Frame Size = 145T
Peak BHP = $(RPM/986)^3$
Max. RPM = 1326 (2 HP)
Est. Ship Weight = 132 lbs.



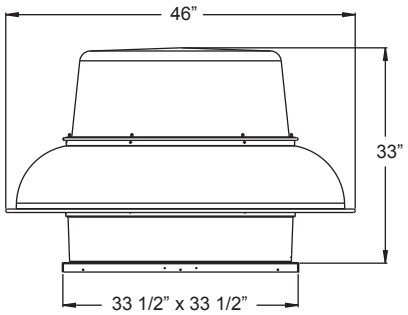
HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	375	1988	1975		1402		-		-		-		-		-		-		-		-	
			3.9	0.04	3.6	0.05	-		-		-		-		-		-		-		-	
	549	2910	2892		2531		2138		-		-		-		-		-		-		-	
			8.0	0.14	7.7	0.16	7.1	0.17	-		-		-		-		-		-		-	
	590	3128	3108		2774		2417		1746		-		-		-		-		-		-	
			8.9	0.18	8.5	0.20	7.9	0.21	7.4	0.20	-		-		-		-		-		-	
	635	3366	3345		3037		2711		2291		-		-		-		-		-		-	
			10.1	0.22	9.7	0.24	9.1	0.26	8.3	0.26	-		-		-		-		-		-	
1/3	655	3472	3450		3153		2838		2478		1493		-		-		-		-		-	
			10.4	0.24	10.0	0.26	9.4	0.28	8.7	0.29	8.2	0.24	-		-		-		-		-	
	675	3578	3555		3268		2963		2638		1913		-		-		-		-		-	
			10.7	0.26	10.3	0.29	9.8	0.31	9.1	0.32	8.4	0.30	-		-		-		-		-	
	691	3663	3640		3360		3062		2751		2162		-		-		-		-		-	
			10.9	0.28	10.5	0.31	10.1	0.33	9.3	0.34	8.5	0.34	-		-		-		-		-	
1/2	715	3791	3766		3497		3209		2911		2456		-		-		-		-		-	
			11.4	0.31	11.0	0.34	10.5	0.36	9.8	0.38	9.0	0.37	-		-		-		-		-	
	740	3923	3898		3639		3361		3075		2712		1852		-		-		-		-	
			12.1	0.35	11.7	0.37	11.2	0.39	10.4	0.41	9.7	0.42	9.1	0.37	-		-		-		-	
	770	4082	4056		3808		3542		3271		2974		2383		-		-		-		-	
			13.1	0.39	12.7	0.42	12.2	0.44	11.5	0.46	10.6	0.48	9.7	0.46	-		-		-		-	
	794	4209	4182		3943		3685		3424		3150		2684		1604		-		-		-	
			14.2	0.43	13.7	0.46	13.2	0.48	12.5	0.50	11.6	0.52	10.6	0.51	10.3	0.41	-		-		-	
3/4	825	4374	4345		4115		3868		3618		3357		3010		2313		-		-		-	
			15.2	0.48	14.8	0.51	14.2	0.53	13.7	0.56	12.6	0.58	11.6	0.58	10.8	0.54	-		-		-	
	855	4533	4503		4281		4045		3804		3555		3278		2763		-		-		-	
			15.5	0.53	15.1	0.57	14.6	0.59	14.1	0.62	13.2	0.64	12.2	0.65	11.2	0.64	-		-		-	
	885	4692	4662		4447		4220		3987		3750		3504		3107		-		-		-	
			16.3	0.59	15.9	0.63	15.4	0.65	14.9	0.68	14.1	0.70	13.3	0.72	12.3	0.71	-		-		-	
	912	4835	4804		4595		4376		4151		3923		3684		3376		1675		-		-	
			17.1	0.65	16.8	0.68	16.3	0.71	15.8	0.74	15.1	0.76	14.3	0.78	13.4	0.78	12.3	0.59	-		-	
1	930	4930	4899		4694		4480		4259		4036		3803		3536		2206		-		-	
			17.8	0.69	17.4	0.72	17.0	0.75	16.5	0.78	15.9	0.81	15.0	0.83	14.1	0.84	12.8	0.72	-		-	
	965	5116	5083		4886		4682		4469		4255		4034		3806		2875		-		-	
			18.9	0.77	18.7	0.81	18.3	0.84	17.8	0.86	17.3	0.89	16.5	0.92	15.7	0.94	13.8	0.90	-		-	
	989	5243	5209		5017		4819		4612		4403		4190		3969		3213		-		-	
			19.9	0.82	19.6	0.87	19.2	0.90	18.7	0.92	18.2	0.95	17.5	0.98	16.7	1.00	14.9	0.99	-		-	
1 1/2	1030	5460	5425		5241		5053		4853		4653		4451		4240		3671		2215		-	
			21.0	0.93	21.0	0.97	20.0	1.01	19.9	1.04	19.5	1.07	18.9	1.10	18.0	1.12	16.5	1.12	15.5	0.92	-	
	1065	5646	5610		5431		5251		5058		4865		4671		4470		4006		2984		-	
			22.0	1.03	21.0	1.07	21.0	1.12	21.0	1.14	20.0	1.17	19.5	1.20	18.7	1.23	17.3	1.25	15.9	1.17	-	
	1100	5832	5794		5621		5448		5262		5075		4887		4697		4291		3517		-	
			22.0	1.13	22.0	1.18	22.0	1.23	21.0	1.25	21.0	1.28	20.0	1.31	19.5	1.34	18.1	1.39	16.5	1.36	-	
	1136	6022	5984		5816		5649		5470		5289		5108		4925		4543		3945		2625	
			23.0	1.25	23.0	1.30	22.0	1.34	22.0	1.34	22.0	1.37	21.0	1.44	21.0	1.47	19.2	1.52	17.7	1.49	16.8	1.29
2	1175	6229	6189		6027		5865		5694		5520		5345		5169		4802		4336		3414	
			24.0	1.38	24.0	1.43	24.0	1.48	23.0	1.51	23.0	1.54	22.0	1.57	22.0	1.61	20.0	1.67	19.1	1.67	17.6	1.60
	1200	6362	6321		6162		6004		5838		5667		5495		5323		4967		4560		3786	
			25.0	1.47	25.0	1.52	24.0	1.57	24.0	1.61	23.0	1.64	23.0	1.67	23.0	1.71	21.0	1.77	20.0	1.80	18.3	1.77
	1225	6494	6453		6297		6142		5980		5813		5645		5477		5153		4763		4100	
			25.0	1.57	25.0	1.62	25.0	1.67	25.0	1.71	24.0	1.74	24.0	1.77	23.0	1.81	22.0	1.87	21.0	1.93	19.6	1.88
	1252	6637	6595		6443		6291		6134		5970		5806		5641		5307		4958		4399	
			26.0	1.67	26.0	1.73	26.0	1.78	26.0	1.82	25.0	1.85	25.0	1.88	24.0	1.92	23.0	1.99	22.0	2.05	21.0	2.00

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5'0' (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

DX24B | BELT DRIVE



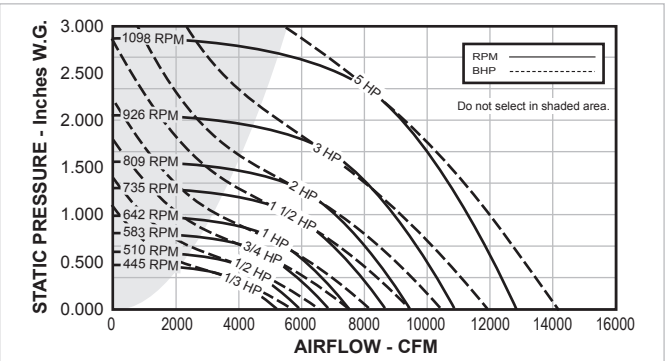
Galv. Steel Base = 14 Gage
Aluminum Base = 0.08”
Discharge Apron = 0.064”
Hood = 0.08”
Roof/Wall Opening = 25” SQ.
Damper Size = 24 ¾” SQ.
Max. Motor Frame Size = 184T
Peak BHP = (RPM/700)³
Max. RPM = 1275 (5 HP)
Est. Ship Weight = 183 lbs.



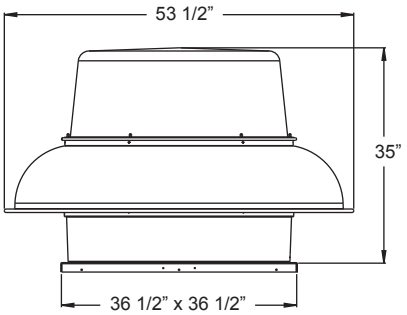
HP	RPM	Tip Speed FPM	0.000” SP		0.125” SP		0.250” SP		0.375” SP		0.500” SP		0.625” SP		0.750” SP		1.000” SP		1.250” SP		1.500” SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/4	265	1719	2547		1450		-		-		-		-		-		-		-		-	
			3.1	0.05	1.4	0.05	-		-		-		-		-		-		-		-	
	399	2589	3835		3315		2531		-		-		-		-		-		-		-	
			7.6	0.15	7.0	0.18	5.5	0.18	-		-		-		-		-		-		-	
	430	2790	4133		3675		2998		-		-		-		-		-		-		-	
			8.2	0.19	7.6	0.22	6.9	0.23	-		-		-		-		-		-		-	
	448	2906	4306		3873		3251		2278		-		-		-		-		-		-	
			8.6	0.22	7.9	0.25	7.3	0.26	4.7	0.24	-		-		-		-		-		-	
1/3	460	2984	4421		4003		3407		2534		-		-		-		-		-		-	
			8.9	0.24	8.2	0.27	7.6	0.28	5.2	0.27	-		-		-		-		-		-	
	475	3082	4565		4164		3600		2837		-		-		-		-		-		-	
			9.3	0.26	8.7	0.29	8.0	0.31	6.1	0.30	-		-		-		-		-		-	
	488	3166	4690		4303		3766		3087		-		-		-		-		-		-	
			9.7	0.28	9.1	0.32	8.4	0.34	6.9	0.33	-		-		-		-		-		-	
1/2	520	3374	4998		4643		4163		3575		2688		-		-		-		-		-	
			10.6	0.34	10.0	0.38	9.3	0.40	8.4	0.41	5.9	0.38	-		-		-		-		-	
	530	3438	5094		4749		4283		3721		2901		-		-		-		-		-	
			10.8	0.36	10.2	0.40	9.5	0.42	8.8	0.43	6.5	0.41	-		-		-		-		-	
	540	3503	5190		4854		4402		3865		3107		-		-		-		-		-	
			11.0	0.38	10.5	0.42	9.7	0.45	9.0	0.46	7.0	0.43	-		-		-		-		-	
	561	3640	5392		5075		4650		4142		3517		-		-		-		-		-	
			11.6	0.43	11.0	0.47	10.4	0.49	9.6	0.51	8.2	0.50	-		-		-		-		-	
3/4	600	3893	5767		5473		5104		4642		4122		3399		-		-		-		-	
			13.1	0.52	12.6	0.57	11.9	0.59	11.2	0.62	10.3	0.62	8.2	0.59	-		-		-		-	
	625	4055	6007		5726		5384		4955		4484		3890		2988		-		-		-	
			14.3	0.59	13.7	0.64	13.0	0.67	12.3	0.70	11.6	0.71	9.9	0.69	8.2	0.64	-		-		-	
	645	4185	6200		5926		5601		5196		4747		4226		3466		-		-		-	
			14.5	0.65	14.0	0.71	13.4	0.73	12.6	0.76	11.9	0.78	10.8	0.76	8.8	0.73	-		-		-	
1	663	4301	6373		6107		5795		5411		4980		4493		3838		-		-		-	
			14.7	0.71	14.2	0.76	13.7	0.79	13.0	0.82	12.3	0.85	11.4	0.84	9.7	0.80	-		-		-	
	675	4379	6488		6227		5924		5553		5134		4669		4075		-		-		-	
			15.0	0.75	14.5	0.80	13.9	0.84	13.1	0.86	12.6	0.89	11.8	0.89	10.3	0.86	-		-		-	
	685	4444	6584		6327		6031		5671		5261		4815		4268		-		-		-	
			15.2	0.78	14.7	0.84	14.1	0.87	13.5	0.90	12.8	0.93	12.1	0.93	10.8	0.90	-		-		-	
	700	4541	6728		6477		6191		5847		5450		5031		4531		-		-		-	
			15.5	0.83	15.0	0.89	14.5	0.93	13.9	0.96	13.3	0.99	12.6	1.00	11.5	0.97	-		-		-	
1 1/2	750	4866	7209		6974		6721		6425		6063		5680		5269		4113		-		-	
			17.0	1.02	16.6	1.09	16.1	1.14	15.5	1.16	14.9	1.20	14.3	1.22	13.7	1.22	11.1	1.15	-		-	
	775	5028	7449		7222		6984		6697		6360		5998		5619		4619		-		-	
			17.9	1.13	17.5	1.19	17.1	1.25	16.5	1.27	16.0	1.31	15.4	1.34	14.8	1.36	12.4	1.30	-		-	
	790	5125	7593		7370		7141		6860		6537		6186		5815		4910		-		-	
			18.6	1.20	18.2	1.26	17.7	1.32	17.2	1.34	16.6	1.38	16.0	1.42	15.5	1.43	13.4	1.39	-		-	
	805	5223	7738		7519		7298		7022		6713		6374		6009		5182		3788		-	
			19.1	1.27	18.6	1.33	18.1	1.40	17.6	1.42	17.0	1.45	16.5	1.50	15.9	1.51	14.1	1.48	12.0	1.35	-	
2	820	5320	7882		7667		7452		7183		6888		6556		6202		5407		4203		-	
			19.2	1.34	18.8	1.41	18.3	1.48	17.8	1.50	17.3	1.53	16.7	1.58	16.1	1.60	14.6	1.57	12.3	1.48	-	
	850	5515	8170		7963		7756		7505		7235		6915		6583		5851		4836		-	
			19.6	1.49	19.2	1.56	18.8	1.63	18.3	1.66	17.8	1.69	17.2	1.74	16.7	1.77	15.5	1.77	13.5	1.69	-	
	870	5644	8362		8160		7957		7718		7462		7152		6834		6142		5234		-	
			20.0	1.60	20.0	1.67	19.5	1.74	19.0	1.78	18.5	1.80	17.9	1.85	17.4	1.89	16.3	1.91	14.3	1.84	-	
	887	5755	8526		8327		8129		7898		7648		7352		7046		6384		5561		4317	
			21.0	1.69	21.0	1.77	20.0	1.84	19.7	1.89	19.2	1.91	18.6	1.95	18.1	2.00	17.0	2.04	15.3	1.97	13.9	1.83

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5’0’ (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

DX27B | BELT DRIVE



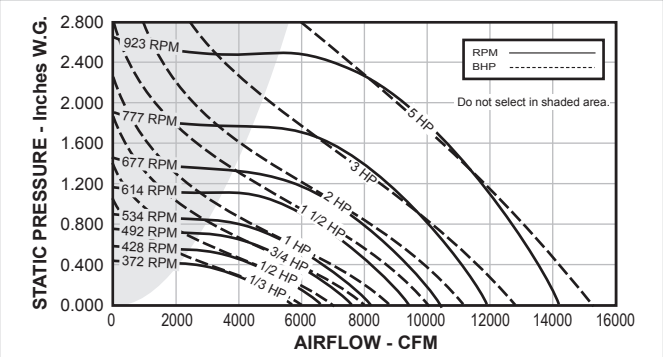
Galv. Steel Base = 14 Gage
Aluminum Base = 0.102”
Discharge Apron = 0.08”
Hood = 0.08”
Roof/Wall Opening = 28” SQ.
Damper Size = 27 ¾” SQ.
Max. Motor Frame Size = 184T
Peak BHP = (RPM/642)^3
Max. RPM = 1210 (5 HP)
Est. Ship Weight = 210 lbs.



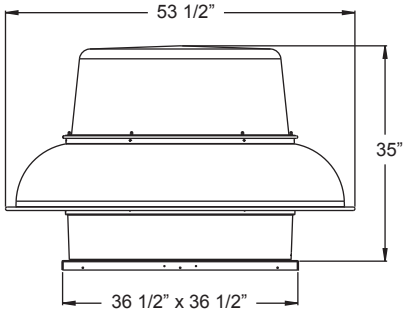
HP	RPM	Tip Speed FPM	0.125” SP		0.250” SP		0.375” SP		0.500” SP		0.750” SP		1.000” SP		1.250” SP		1.500” SP		2.000” SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/3	445	3234	4748		4165		3314		-		-		-		-		-		-	
			8.1	0.29	7.3	0.32	6.8	0.33	-		-		-		-		-		-	
1/2	475	3451	5124		4604		3947		-		-		-		-		-		-	
			9.2	0.34	8.4	0.38	7.7	0.40	-		-		-		-		-		-	
	510	3703	5557		5102		4545		3731		-		-		-		-		-	
			10.3	0.42	9.5	0.46	8.8	0.46	8.4	0.50	-		-		-		-		-	
3/4	530	3850	5808		5386		4866		4180		-		-		-		-		-	
			10.9	0.47	10.2	0.51	9.5	0.54	9.0	0.56	-		-		-		-		-	
	560	4068	6178		5801		5321		4773		-		-		-		-		-	
			12.1	0.55	11.4	0.59	10.6	0.63	10.0	0.66	-		-		-		-		-	
	583	4239	6466		6121		5664		5166		-		-		-		-		-	
			13.3	0.62	12.5	0.66	11.6	0.70	10.9	0.73	-		-		-		-		-	
1	600	4359	6670		6345		5915		5430		3890		-		-		-		-	
			13.8	0.67	13.1	0.71	12.2	0.76	11.4	0.79	10.8	0.79	-		-		-		-	
	620	4504	6912		6593		6188		5744		4473		-		-		-		-	
			14.4	0.73	13.9	0.78	13.0	0.83	12.1	0.87	11.3	0.90	-		-		-		-	
	642	4666	7182		6875		6501		6079		4967		-		-		-		-	
			15.0	0.81	14.5	0.86	13.8	0.91	12.9	0.95	11.9	1.00	-		-		-		-	
1 1/2	660	4795	7398		7099		6748		6340		5356		-		-		-		-	
			15.4	0.87	15.0	0.93	14.3	0.98	13.5	1.02	12.4	1.09	-		-		-		-	
	685	4976	7701		7412		7093		6702		5830		4186		-		-		-	
			16.2	0.97	15.9	1.03	15.3	1.08	14.5	1.13	13.1	1.20	13.1	1.15	-		-		-	
	710	5158	8003		7724		7434		7061		6253		5029		-		-		-	
			17.2	1.08	16.9	1.14	16.4	1.19	15.7	1.24	14.2	1.33	13.7	1.21	-		-		-	
	735	5341	8306		8036		7775		7417		6654		5594		-		-		-	
			18.3	1.19	18.1	1.25	17.7	1.31	17.0	1.37	15.6	1.46	14.7	1.50	-		-		-	
2	750	5449	8484		8220		7975		7624		6888		5921		-		-		-	
			18.9	1.26	18.7	1.33	18.4	1.38	17.7	1.44	16.3	1.54	15.2	1.64	-		-		-	
	770	5594	8724		8467		8210		7901		7201		6339		4824		-		-	
			19.7	1.36	19.5	1.43	19.0	1.49	18.5	1.55	17.2	1.65	15.9	1.72	15.8	1.65	-		-	
	790	5739	8964		8713		8463		8177		7497		6714		5514		-		-	
			20.0	1.47	20.0	1.54	19.9	1.60	19.4	1.66	18.0	1.77	16.7	1.85	16.3	1.99	-		-	
	809	5877	9192		8947		8702		8437		7775		7046		5967		-		-	
			21.0	1.57	21.0	1.64	20.0	1.71	20.0	1.77	18.7	1.88	17.4	1.97	16.9	1.99	-		-	
3	840	6102	9562		9326		9091		8856		8224		7543		6652		5163		-	
			22.0	1.75	22.0	1.83	22.0	1.90	21.0	1.96	20.0	2.08	18.9	2.18	17.9	2.24	18.1	2.13	-	
	870	6320	9920		9692		9465		9238		8654		8016		7259		6171		-	
			24.0	1.94	23.0	2.02	23.0	2.09	23.0	2.16	22.0	2.29	21.0	2.40	19.0	2.47	19.0	2.49	-	
	900	6538	10278		10057		9838		9618		9078		8476		7805		6843		-	
			25.0	2.15	25.0	2.23	25.0	2.30	24.0	2.37	24.0	2.51	22.0	2.63	21.0	2.72	20.0	2.75	-	
	926	6727	10587		10373		10159		9946		9441		8858		8224		7414		-	
			27.0	2.33	27.0	2.42	26.0	2.49	26.0	2.56	25.0	2.71	24.0	2.84	23.0	2.93	21.0	2.99	-	
5	960	6974	10992		10785		10579		10373		9910		9353		8763		8082		5611	
			29.0	2.59	29.0	2.68	28.0	2.76	28.0	2.84	27.0	2.98	26 .0	3.12	25.0	3.24	23.0	3.27	23.0	3.14
	1000	7265	11467		11268		11078		10872		10458		9927		9385		8778		7000	
			31.0	2.92	30.0	3.02	30.0	3.10	30.0	3.18	29.0	3.33	28.0	3.48	27.0	3.62	25.0	3.71	24.0	3.75
	1040	7555	11941		11750		11559		11369		10889		10493		9973		9416		7919	
			32.0	3.28	31.0	3.38	31.0	3.47	31.0	3.55	30.0	3.71	29.0	3.87	28.0	4.01	27.0	4.13	25.0	4.24
	1098	7977	12627		12447		12266		12086		11726		11299		10812		10318		9135	
			34.0	3.84	34.0	3.95	34.0	4.05	33.0	4.14	33.0	4.61	32 .0	4.48	31.0	4.63	30.0	4.78	27.0	4.98

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5’0’ (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

DX30B | BELT DRIVE



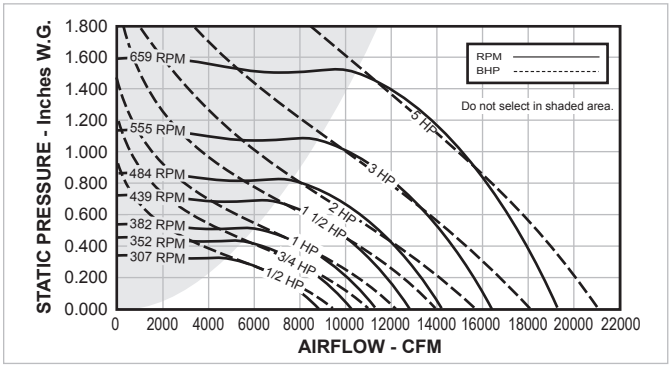
Galv. Steel Base = 14 Gage
Aluminum Base = 0.102”
Discharge Apron = 0.08”
Hood = 0.08”
Roof Opening = 28” SQ.
Damper Size = 27 ¾” SQ.
Max. Motor Frame Size = 184T
Peak BHP = (RPM/534)^3
Max. RPM = 999 (5 HP)
Est. Ship Weight = 210 lbs.



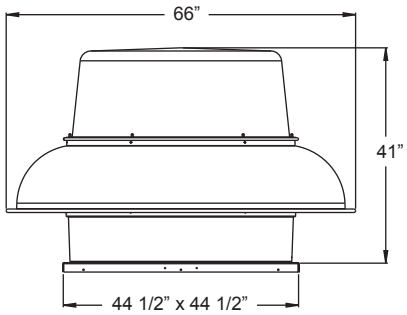
HP	RPM	Tip Speed FPM	0.000” SP		0.125” SP		0.250” SP		0.375” SP		0.500” SP		0.625” SP		0.750” SP		1.000” SP		1.250” SP		1.500” SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/3	225	1804	3480	2.9 0.06	2165	2.0 0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	300	2405	4640	5.8 0.14	3849	5.1 0.17	2423	4.3 0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	372	2983	5753	8.7 0.27	5164	8.0 0.30	4386	7.4 0.33	3184	6.6 0.32	-	-	-	-	-	-	-	-	-	-	-	-
1/2	405	3247	6264	9.7 0.35	5732	8.9 0.38	5073	8.2 0.42	4186	7.5 0.43	-	-	-	-	-	-	-	-	-	-	-	-
	428	3432	6619	10.4 0.41	6120	9.7 0.45	5514	9.0 0.49	4747	8.3 0.51	3627	7.4 0.49	-	-	-	-	-	-	-	-	-	-
3/4	460	3688	7114	11.7 0.51	6653	10.8 0.55	6114	10.0 0.59	5468	9.3 0.63	4618	8.5 0.63	-	-	-	-	-	-	-	-	-	-
	480	3848	7424	12.6 0.57	6985	11.5 0.62	6478	10.5 0.66	5897	9.9 0.71	5147	9.0 0.72	4103	8.4 0.70	-	-	-	-	-	-	-	-
	492	3945	7609	13.1 0.62	7183	12.1 0.67	6695	11.0 0.71	6136	10.3 0.76	5430	9.4 0.78	4490	8.7 0.76	-	-	-	-	-	-	-	-
1	520	4169	8042	14.1 0.73	7642	13.3 0.79	7195	12.4 0.83	6674	11.6 0.87	6071	10.8 0.91	5324	9.9 0.92	4225	8.9 0.87	-	-	-	-	-	-
	534	4281	8259	14.7 0.79	7871	13.9 0.85	7443	13.2 0.89	6939	12.4 0.94	6375	11.6 0.98	5691	10.6 1.00	4760	9.5 0.97	-	-	-	-	-	-
1 1/2	560	4490	8661	15.4 0.91	8295	14.8 0.98	7890	14.2 1.02	7427	13.4 1.06	6927	12.7 1.12	6303	11.8 1.14	5559	10.7 1.14	-	-	-	-	-	-
	580	4650	8971	16.1 1.01	8617	15.5 1.08	8229	14.9 1.13	7792	14.2 1.17	7315	13.5 1.23	6757	12.7 1.26	6115	11.7 1.28	-	-	-	-	-	-
	600	4811	9280	16.8 1.12	8938	16.2 1.19	8566	15.6 1.24	8153	15.0 1.29	7698	14.3 1.34	7192	13.5 1.39	6590	12.5 1.41	4847	10.4 1.33	-	-	-	-
	614	4923	9496	17.4 1.20	9162	16.9 1.27	8801	16.2 1.32	8405	15.6 1.37	7964	14.9 1.43	7493	14.2 1.49	6917	13.2 1.50	5412	10.9 1.47	-	-	-	-
2	640	5131	9899	18.4 1.36	9578	17.9 1.44	9234	17.3 1.49	8868	16.8 1.54	8452	16.1 1.59	8015	15.3 1.66	7504	14.5 1.69	6230	12.3 1.69	-	-	-	-
	660	5292	10208	19.1 1.49	9897	18.6 1.57	9567	18.1 1.63	9222	17.6 1.68	8820	17.0 1.73	8400	16.2 1.80	7937	15.4 1.85	6798	13.4 1.88	4544	11.5 1.62	-	-
	677	5428	10471	19.5 1.61	10168	19.0 1.69	9848	18.6 1.75	9513	18.2 1.80	9129	17.7 1.86	8724	16.9 1.92	8302	16.1 1.99	7235	14.2 2.03	5744	12.5 1.96	-	-
3	710	5693	10981	20.0 1.86	10692	19.9 1.94	10392	19.5 2.01	10073	19.1 2.06	9723	18.7 2.12	9346	18.1 2.18	8952	17.3 2.26	8011	15.6 2.32	6801	14.0 2.30	-	-
	735	5893	11368	21.0 2.06	11089	21.0 2.15	10802	20.0 2.22	10494	20.0 2.28	10169	19.6 2.33	9808	19.1 2.39	9431	18.3 2.47	8577	16.8 2.56	7519	15.0 2.59	5947	13.8 2.45
	760	6093	11755	22.0 2.28	11485	22.0 2.37	11210	21.0 2.45	10912	21.0 2.51	10611	21.0 2.56	10263	20.0 2.63	9905	19.4 2.70	9120	17.9 2.83	8163	16.3 2.87	6886	14.8 2.79
	777	6230	12018	23.0 2.44	11754	22.0 2.53	11488	22.0 2.61	11196	22.0 2.67	10905	21.0 2.73	10569	21.0 2.79	10224	20.0 2.86	9485	18.7 3.01	8564	17.1 3.06	7426	15.5 3.01
5	815	6534	12605	24.0 2.81	12354	24.0 2.91	12102	23.0 3.00	11827	23.0 3.06	11549	23.0 3.12	11249	23.0 3.19	10924	22.0 3.25	10244	21.0 3.42	9441	18.8 3.50	8513	17.2 3.55
	845	6775	13069	25.0 3.14	12827	25.0 3.23	12584	25.0 3.33	12323	25.0 3.40	12055	25.0 3.46	11781	24.0 3.53	11467	24.0 3.60	10819	23.0 3.76	10095	21.0 3.89	9237	18.5 3.94
	875	7015	13533	26.0 3.48	13299	26.0 3.58	13065	26.0 3.68	12817	26.0 3.76	12558	26.0 3.83	12299	26.0 3.89	12006	26.0 3.96	11389	24.0 4.12	10739	23.0 4.30	9937	20.0 4.34
	905	7256	13997	28.0 3.85	13771	28.0 3.96	13544	28.0 4.06	13308	27.0 4.15	13058	27.0 4.22	12808	27.0 4.28	12540	27.0 4.35	11952	26.0 4.50	11333	24.0 4.70	10610	22.0 4.79
	923	7400	14276	29.0 4.09	14054	29.0 4.19	13831	29.0 4.30	13603	28.0 4.39	13357	28.0 4.46	13112	28.0 4.53	12859	28.0 4.60	12284	27.0 4.75	11680	25.0 4.95	11001	23.0 5.07

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5'0' (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

DX36B | BELT DRIVE



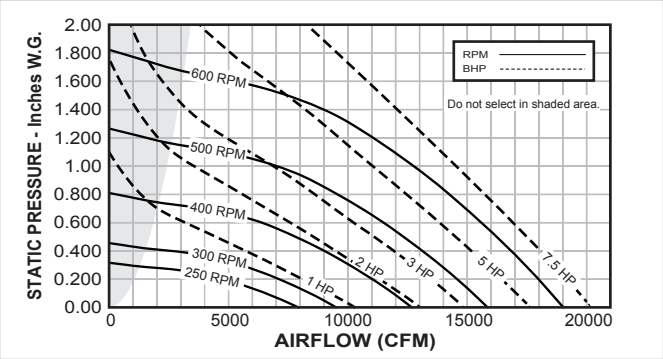
Galv. Steel Base = 12 Gage
Aluminum Base = 0.102”
Discharge Apron = 0.08”
Hood = 0.08”
Roof Opening = 36” SQ.
Damper Size = 35 ½” SQ.
Max. Motor Frame Size = 213T
Peak BHP = (RPM/381)^3
Max. RPM = 810 (7 ½ HP)
Est. Ship Weight = 420 lbs.



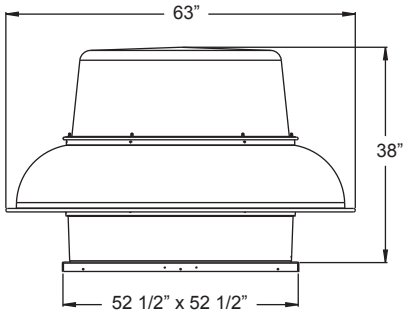
HP	RPM	Tip Speed FPM	0.000” SP		0.125” SP		0.250” SP		0.375” SP		0.500” SP		0.625” SP		0.750” SP		1.000” SP		1.250” SP		1.500” SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1/2	215	2093	6343		4855		-		-		-		-		-		-		-		-	
			3.9	0.13	3.7	0.18	-		-		-		-		-		-		-		-	
	261	2541	7700		6555		4707		-		-		-		-		-		-		-	
			5.9	0.24	5.6	0.30	5.6	0.31	-		-		-		-		-		-		-	
	307	2989	9057		8105		6994		-		-		-		-		-		-		-	
			8.0	0.39	7.7	0.46	7.6	0.51	-		-		-		-		-		-		-	
3/4	325	3164	9588		8714		7701		6101		-		-		-		-		-		-	
			9.0	0.46	8.6	0.53	8.3	0.60	7.9	0.61	-		-		-		-		-		-	
	340	3310	10031		9216		8248		6922		-		-		-		-		-		-	
			9.9	0.53	9.4	0.59	8.9	0.68	8.5	0.71	-		-		-		-		-		-	
	352	3427	10385		9613		8675		7497		-		-		-		-		-		-	
			10.6	0.58	10.2	0.65	9.5	0.74	9.1	0.79	-		-		-		-		-		-	
1	365	3553	10768		10037		9130		8086		6338		-		-		-		-		-	
			11.4	0.65	11.1	0.72	10.2	0.82	9.7	0.87	9.3	0.85	-		-		-		-		-	
	375	3651	11063		10362		9469		8523		7027		-		-		-		-		-	
			12.0	0.71	11.6	0.78	10.8	0.88	10.1	0.94	9.6	0.93	-		-		-		-		-	
	382	3719	11270		10589		9705		8809		7438		-		-		-		-		-	
			12.4	0.75	12.1	0.82	11.3	0.92	10.6	0.99	9.9	1.00	-		-		-		-		-	
1 1/2	400	3894	11801		11169		10314		9503		8351		-		-		-		-		-	
			13.5	0.86	13.3	0.93	12.5	1.04	11.7	1.11	10.9	1.16	-		-		-		-		-	
	415	4040	12243		11643		10821		10050		9052		7592		-		-		-		-	
			14.6	0.96	14.4	1.04	13.6	1.14	12.8	1.23	12.0	1.29	11.2	1.26	-		-		-		-	
	430	4186	12686		12115		11324		10586		9711		8478		-		-		-		-	
			15.5	1.06	15.4	1.15	14.8	1.26	14.0	1.35	13.2	1.42	12.3	1.42	-		-		-		-	
	439	4274	12951		12397		11627		10904		10089		8939		-		-		-		-	
			16.1	1.13	16.1	1.23	15.4	1.33	14.7	1.43	14.0	1.50	13.1	1.53	-		-		-		-	
2	455	4430	13423		12896		12168		11453		10719		9706		8341		-		-		-	
			17.0	1.26	17.0	1.36	16.5	1.46	15.7	1.57	15.0	1.65	14.3	1.71	13.2	1.66	-		-		-	
	470	4576	13866		13364		12671		11959		11271		10386		9229		-		-		-	
			17.9	1.39	17.9	1.50	17.5	1.58	16.8	1.71	16.0	1.80	15.4	1.87	14.5	1.86	-		-		-	
	484	4712	14279		13798		13139		12432		11778		10998		9945		-		-		-	
			18.8	1.52	18.8	1.63	18.6	1.71	18.0	1.85	17.2	1.95	16.5	2.02	15.8	2.06	-		-		-	
3	505	4916	14899		14449		13830		13143		12523		11839		10942		-		-		-	
			21.0	1.72	21.0	1.85	21.0	1.92	20.0	2.07	19.4	2.18	18.6	2.26	17.9	2.34	-		-		-	
	525	5111	15489		15061		14481		13814		13212		12584		11822		9607		-		-	
			22.0	1.94	22.0	2.07	22.0	2.14	21.0	2.29	20.0	2.42	19.6	2.51	19.0	2.58	17.1	2.55	-		-	
	540	5257	15931		15515		14968		14319		13718		13128		12449		10507		-		-	
			22.0	2.11	22.0	2.24	22.0	2.32	22.0	2.46	21.0	2.60	20.0	2.71	19.6	2.78	18.0	2.81	-		-	
	555	5403	16374		15969		15452		14826		14223		13662		13039		11292		-		-	
			23.0	2.29	23.0	2.43	23.0	2.50	22.0	2.65	22.0	2.80	21.0	2.91	20.0	3.00	18.9	3.09	-		-	
5	575	5598	16964		16573		16091		15498		14902		14364		13781		12252		9844		-	
			24.0	2.55	24.0	2.69	24.0	2.77	23.0	2.90	23.0	3.07	22.0	3.20	21.0	3.30	20.0	3.45	18.5	3.30	-	
	595	5793	17554		17177		16721		16166		15575		15043		14505		13160		11240		-	
			25.0	2.82	25.0	2.97	25.0	3.06	25.0	3.17	24.0	3.36	24.0	3.36	24.0	3.62	22.0	3.79	19.8	3.74	-	
	615	5987	18144		17779		17349		16824		16245		15715		15214		14033		12346		-	
			27.0	3.12	27.0	3.27	27.0	3.37	26.0	3.48	26.0	3.66	25.0	3.82	25.0	3.95	23.0	4.13	22.0	4.19	-	
	630	6133	18586		18230		17818		17314		16753		16225		15740		14630		13087		10793	
			28.0	3.35	28.0	3.51	28.0	3.62	28.0	3.72	27.0	3.90	27.0	4.07	26.0	4.21	24.0	4.41	23.0	4.53	21.0	4.34
	645	6279	19029		18681		18286		17801		17260		16733		16249		15218		13799		11892	
			29.0	3.59	29.0	3.75	29.0	3.87	28.0	3.97	28.0	4.14	27.0	4.32	27.0	4.48	25.0	4.69	24.0	4.87	22.0	4.74
	659	6416	19442		19101		18722		18255		17730		17205		16722		15732		14438		12737	
			29.0	3.83	29.0	4.00	29.0	4.13	29.0	4.22	28.0	4.38	28.0	4.57	27.0	4.74	26.0	4.97	24.0	5.17	23.0	5.10

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5'0' (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

KB420 | BELT DRIVE



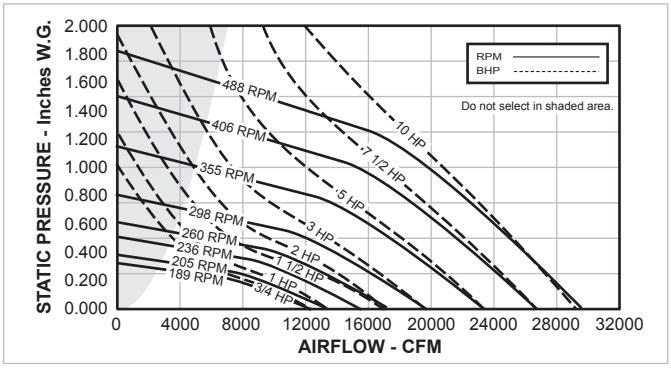
Galv. Steel Base = N/A
Aluminum Base = 0.125”
Discharge Apron = 0.09”
Hood = 0.08”
Roof Opening = 44” SQ.
Damper Size = 43 ½” SQ.
Max. Motor Frame Size = 213T
Peak BHP = (RPM/315)^3
Max. RPM = 600 (7 ½ HP)
Est. Ship Weight = 600 lbs.



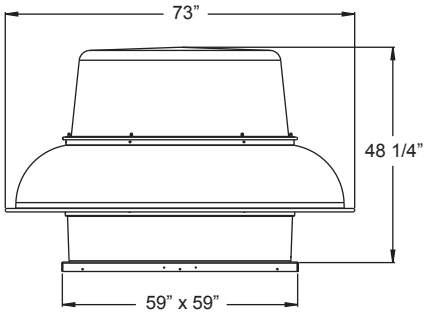
HP	RPM	Tip Speed FPM	0.000”		0.125”		0.250”		0.375”		0.500”		0.625”		0.750”		1.000”		1.250”		1.500”	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
3/4	240	2748	7613		5746		2471		-		-		-		-		-		-		-	
			6.4	0.401	6.3	0.402	6.0	0.298	-		-		-		-		-		-		-	
	260	2977	8248		6568		4237		-		-		-		-		-		-		-	
			7.2	0.510	7.1	0.516	6.9	0.458	-		-		-		-		-		-		-	
	283	3240	8977		7467		5526		-		-		-		-		-		-		-	
			8.2	0.657	8.0	0.665	7.8	0.628	-		-		-		-		-		-		-	
	295	3377	9358		7926		6131		3166		-		-		-		-		-		-	
			8.6	0.745	8.5	0.754	8.2	0.724	7.8	0.563	-		-		-		-		-		-	
1	300	3435	9517		8116		6371		3713		-		-		-		-		-		-	
			8.8	0.783	8.6	0.793	8.3	0.765	8.0	0.626	-		-		-		-		-		-	
	308	3526	9770		8414		6748		4432		-		-		-		-		-		-	
			9.1	0.848	8.9	0.858	8.6	0.834	8.3	0.722	-		-		-		-		-		-	
	330	3778	10468		9213		7728		5878		2008		-		-		-		-		-	
			9.8	1.042	9.6	1.053	9.2	1.041	8.8	0.968	8.6	0.642	-		-		-		-		-	
1 1/2	345	3950	10944		9752		8361		6685		4146		-		-		-		-		-	
			10.2	1.191	10	1.203	9.6	1.198	8.9	1.136	8.8	0.941	-		-		-		-		-	
	354	4053	11230		10072		8735		7151		4987		-		-		-		-		-	
			10.4	1.287	10.2	1.299	9.7	1.299	9.0	1.242	8.8	1.086	-		-		-		-		-	
	365	4179	11579		10462		9181		7687		5830		-		-		-		-		-	
			10.8	1.411	10.4	1.423	10	1.427	9.2	1.376	8.9	1.257	-		-		-		-		-	
2	380	4350	12054		10989		9773		8395		6725		3977		-		-		-		-	
			11.4	1.592	11.1	1.604	10.7	1.610	10	1.570	9.4	1.475	9.4	1.192	-		-		-		-	
	390	4465	12372		11339		10164		8857		7279		5063		-		-		-		-	
			11.9	1.721	11.5	1.734	11.1	1.741	10.5	1.708	9.7	1.623	9.7	1.403	-		-		-		-	
3	420	4808	13323		12379		11316		10134		8806		7232		4822		-		-		-	
			13.2	2.149	12.9	2.164	12.4	2.175	11.9	2.159	11.2	2.094	10.8	1.970	10.8	1.669	-		-		-	
	430	4923	13640		12718		11694		10551		9281		7818		5821		-		-		-	
			13.7	2.306	13.3	2.321	12.8	2.334	12.3	2.325	11.7	2.262	11.2	2.159	11.2	1.914	-		-		-	
	440	5037	13958		13056		12061		10964		9751		8347		6613		-		-		-	
			14.1	2.471	13.7	2.486	13.3	2.499	12.8	2.499	12.2	2.438	11.5	2.342	11.5	2.144	-		-		-	
	447	5117	14180		13292		12316		11243		10076		8714		7138		-		-		-	
			14.4	2.591	14	2.606	13.5	2.620	13	2.620	12.6	2.567	11.8	2.475	11.8	2.308	-		-		-	
	460	5266	14592		13730		12788		11757		10643		9384		7917		-		-		-	
			15	2.824	14.6	2.839	14.1	2.853	13.5	2.856	13.1	2.812	12.5	2.734	12.2	2.588	-		-		-	
5	480	5495	15227		14400		13508		12539		11493		10341		9039		4943		-		-	
			15.7	3.208	15.3	3.225	14.7	3.240	14.1	3.246	13.8	3.217	13.3	3.145	12.8	3.034	12.8	2.387	-		-	
	500	5724	15861		15068		14222		13310		12327		11276		10080		7004		-		-	
			16.5	3.626	16	3.643	15.4	3.659	14.8	3.669	14.3	3.659	14	3.593	13.5	3.499	13.3	3.052	-		-	
	520	5953	16495		15733		14929		14072		13135		12144		11052		8475		2897		-	
			17.3	4.079	16.7	4.097	16.1	4.113	15.3	4.128	14.7	4.125	14.5	4.070	14.2	3.986	13.8	3.662	13.8	2.437	-	
	532	6091	16876		16130		15352		14519		13609		12653		11620		9192		4913		-	
			17.7	4.368	17.1	4.386	16.4	4.403	15.7	4.419	14.9	4.418	14.7	4.375	14.4	4.295	14.1	4.009	14.1	3.124	-	
	555	6354	17606		16891		16156		15358		14508		13616		12675		10477		7502		-	
			18.5	4.959	17.8	4.978	17.1	4.996	16.2	5.013	15.2	5.017	14.9	4.999	14.8	4.927	14.5	4.693	14.5	4.113	-	
7 1/2	570	6526	18082		17386		16678		15901		15087		14233		13318		11260		8691		3231	
			18.9	5.372	18.2	5.392	17.4	5.411	16.5	5.428	15.4	5.435	14.9	5.433	14.8	5.361	14.7	5.152	14.7	4.691	14.7	3.229
	585	6697	18557		17879		17198		16441		15662		14829		13954		12022		9693		5676	
			19.6	5.807	18.9	5.827	18.1	5.847	17.1	5.865	16.1	5.877	15.2	5.874	15.2	5.820	15.2	5.633	15.2	5.246	15.2	4.227
	599	6858	19001		18339		17677		16942		16194		15381		14542		12693		10526		7325	
			20.3	6.234	19.6	6.255	18.8	6.276	17.9	6.294	16.9	6.309	15.9	6.307	15.9	6.271	15.9	6.089	15.9	5.760	15.9	4.961

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5’0’ (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

JB48 | BELT DRIVE



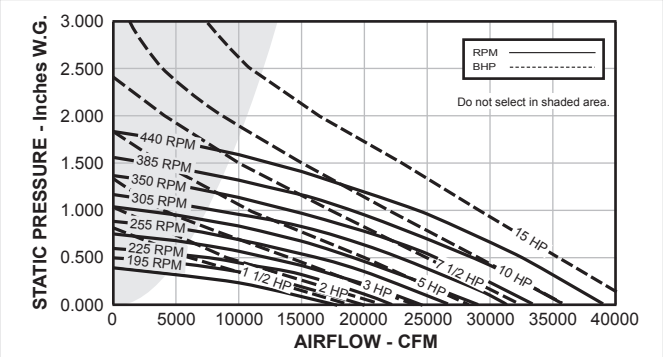
Galv. Steel Base = N/A
Aluminum Base = 0.125”
Discharge Apron = 0.102”
Hood = 0.08”
Roof Opening = 50” SQ.
Damper Size = 49 ½” SQ.
Max. Motor Frame Size = 215T
Peak BHP = (RPM/206)^3
Max. RPM = 449 (10 HP)
Est. Ship Weight = 775 lbs.



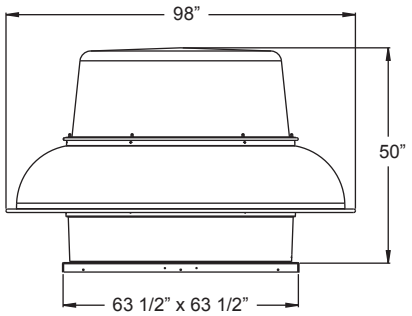
HP	RPM	Tip Speed FPM	0.000” SP		0.125” SP		0.250” SP		0.375” SP		0.500” SP		0.625” SP		0.750” SP		1.000” SP		1.250” SP		1.500” SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
3/4	160	2105	11842		7937		-		-		-		-		-		-		-		-	
			4.6	0.47	4.4	0.42	-		-		-		-		-		-		-		-	
	175	2302	12953		9473		-		-		-		-		-		-		-		-	
			5.4	0.62	5.2	0.57	-		-		-		-		-		-		-		-	
	189	2486	13989		10828		5936		-		-		-		-		-		-		-	
			6.0	0.78	5.7	0.73	5.7	0.55	-		-		-		-		-		-		-	
1	195	2565	14433		11397		7183		-		-		-		-		-		-		-	
			6.3	0.85	6.0	0.81	5.9	0.66	-		-		-		-		-		-		-	
	200	2631	14803		11865		8089		-		-		-		-		-		-		-	
			6.5	0.92	6.2	0.88	6.0	0.75	-		-		-		-		-		-		-	
	205	2697	15173		12308		8799		-		-		-		-		-		-		-	
			6.8	0.99	6.4	0.95	6.2	0.83	-		-		-		-		-		-		-	
1 1/2	215	2828	15913		13183		9999		-		-		-		-		-		-		-	
			7.2	1.14	6.8	1.10	6.6	0.99	-		-		-		-		-		-		-	
	225	2960	16654		14046		11088		5724		-		-		-		-		-		-	
			7.6	1.31	7.2	1.26	6.9	1.16	6.8	0.80	-		-		-		-		-		-	
	236	3105	17468		14983		12267		8231		-		-		-		-		-		-	
			8.1	1.51	7.7	1.47	7.3	1.37	7.1	1.14	-		-		-		-		-		-	
2	245	3223	18134		15742		13155		9914		-		-		-		-		-		-	
			8.5	1.69	8.0	1.65	7.7	1.56	7.3	1.38	-		-		-		-		-		-	
	255	3355	18874		16577		14131		11319		5416		-		-		-		-		-	
			8.9	1.90	8.4	1.86	8.0	1.78	7.6	1.63	7.6	1.01	-		-		-		-		-	
	260	3420	19244		16992		14615		11878		6656		-		-		-		-		-	
			9.1	2.02	8.6	1.98	8.2	1.89	7.8	1.74	7.7	1.24	-		-		-		-		-	
3	270	3552	19984		17817		15572		12978		8983		-		-		-		-		-	
			9.5	2.26	9.0	2.22	8.6	2.14	8.1	1.99	7.9	1.66	-		-		-		-		-	
	280	3684	20725		18637		16515		14055		11032		4757		-		-		-		-	
			9.9	2.52	9.5	2.48	9.0	2.40	8.5	2.26	8.1	2.04	8.1	1.10	-		-		-		-	
	290	3815	21465		19457		17414		15124		12455		7271		-		-		-		-	
			10.5	2.80	10.0	2.77	9.6	2.68	9.2	2.55	8.6	2.36	8.6	1.70	-		-		-		-	
	298	3920	22057		20091		18116		15911		13468		9191		-		-		-		-	
			11.0	3.04	10.4	3.00	9.9	2.92	9.5	2.79	9.0	2.61	8.9	2.13	-		-		-		-	
5	315	4144	23315		21458		19589		17568		15336		12614		7315		-		-		-	
			11.8	3.59	11.3	3.55	10.8	3.47	10.2	3.36	9.8	3.18	9.5	2.93	9.5	2.06	-		-		-	
	330	4341	24425		22655		20871		19007		16935		14702		10848		-		-		-	
			12.6	4.13	12.0	4.09	11.4	4.00	10.9	3.90	10.5	3.73	10.1	3.53	10.0	3.00	-		-		-	
	345	4539	25536		23842		22138		20420		18461		16365		13809		-		-		-	
			13.4	4.72	12.7	4.68	12.1	4.59	11.6	4.49	11.1	4.33	10.8	4.13	10.6	3.84	-		-		-	
	355	4670	26276		24629		22975		21312		19437		17450		15230		6228		-		-	
			13.9	5.14	13.3	5.10	12.6	5.01	12.0	4.91	11.4	4.78	11.2	4.57	11.0	4.32	11.0	2.31	-		-	
7 1/2	370	4868	27386		25805		24222		22626		20891		19045		17054		9969		-		-	
			14.7	5.82	14.0	5.77	13.3	5.70	12.7	5.59	12.0	5.46	11.7	5.26	11.6	5.04	11.5	3.71	-		-	
	385	5065	28496		26976		25458		23923		22322		20569		18696		13361		-		-	
			15.3	6.56	14.7	6.51	14.0	6.44	13.4	6.33	12.7	6.20	12.2	6.01	12.1	5.80	11.9	4.94	-		-	
	395	5196	29237		27756		26276		24781		23263		21544		19772		15418		6502		-	
			15.8	7.08	15.1	7.03	14.5	6.96	13.8	6.85	13.1	6.73	12.5	6.57	12.4	6.34	12.3	5.70	12.3	3.00	-	
	406	5341	30051		28611		27181		25718		24263		22617		20941		17033		9283		-	
			16.3	7.69	15.6	7.64	14.9	7.59	14.3	7.46	13.6	7.34	12.9	7.18	12.8	6.95	12.6	6.39	12.6	4.36	-	
10	425	5591	31457		30084		28700		27320		25931		24440		22849		19444		13785		-	
			17.3	8.82	16.5	8.76	15.8	8.71	15.1	8.59	14.4	8.47	13.8	8.32	13.3	8.12	13.2	7.61	13.2	6.37	-	
	448	5894	33160		31860		30548		29239		27920		26602		25090		21961		18201		10947	
			18.5	10.33	17.8	10.27	17.2	10.22	16.7	10.10	16.1	9.98	15.6	9.85	15.1	9.67	14.9	9.17	14.9	8.47	14.9	6.18

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5’0’ (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

MB542 | BELT DRIVE



Galv. Steel Base = N/A
Aluminum Base = 0.125
Discharge Apron = 0.150"
Hood = 0.125"
Roof Opening = 55" SQ.
Damper Size = 54 ½" SQ.
Max. Motor Frame Size = 254T
Peak BHP = (RPM/182)^3
Max. RPM = 440 (15 HP)
Est. Ship Weight = 1500 lbs.



HP	RPM	Tip Speed FPM	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP	
			Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP	Sones	BHP
1 1/2	165	2505	17490		12624		3878		-		-		-		-		-		-		-	
			6.0	0.77	5.8	0.72	5.4	0.49	-		-		-		-		-		-		-	
	175	2657	18550		14026		6748		-		-		-		-		-		-		-	
			6.6	0.92	6.3	0.89	5.9	0.68	-		-		-		-		-		-		-	
	185	2809	19610		15355		9323		-		-		-		-		-		-		-	
			7.1	1.08	6.8	1.07	6.4	0.87	-		-		-		-		-		-		-	
	195	2961	20670		16635		11589		-		-		-		-		-		-		-	
			7.6	1.27	7.3	1.26	6.9	1.11	-		-		-		-		-		-		-	
2	215	3265	22790		19135		15017		8447		-		-		-		-		-		-	
			8.6	1.70	8.2	1.71	7.8	1.54	7.5	1.23	-		-		-		-		-		-	
	220	3341	23320		19749		15820		9760		-		-		-		-		-		-	
			8.9	1.82	8.5	1.84	8.1	1.67	7.6	1.38	-		-		-		-		-		-	
	225	3416	23849		20359		16614		11025		-		-		-		-		-		-	
			9.1	1.95	8.7	1.97	8.3	1.80	7.8	1.55	-		-		-		-		-		-	
3	235	3568	24909		21569		18094		13452		6014		-		-		-		-		-	
			9.6	2.22	9.2	2.25	8.8	2.10	8.2	1.92	8.1	1.44	-		-		-		-		-	
	240	3644	25440		22170		18810		14419		7452		-		-		-		-		-	
			9.8	2.36	9.4	2.40	9.0	2.26	8.5	2.07	8.2	1.60	-		-		-		-		-	
	245	3720	25970		22768		19496		15357		8861		-		-		-		-		-	
			10.1	2.51	9.6	2.55	9.2	2.43	8.7	2.23	8.4	1.77	-		-		-		-		-	
	255	3872	27030		23958		20852		17032		11516		-		-		-		-		-	
			10.6	2.83	10.1	2.89	9.7	2.79	9.2	2.53	8.7	2.17	-		-		-		-		-	
5	265	4024	28090		25139		22150		18663		14018		7387		-		-		-		-	
			11.3	3.18	10.8	3.25	10.3	3.15	9.8	2.89	9.2	2.63	9.2	2.10	-		-		-		-	
	275	4176	29150		26311		23428		20259		16240		10205		-		-		-		-	
			11.8	3.55	11.3	3.63	10.8	3.54	10.3	3.29	9.8	3.10	9.6	2.52	-		-		-		-	
	295	4479	31270		28630		25940		23184		19758		15358		9427		-		-		-	
			13.0	4.39	12.4	4.49	11.8	4.40	11.3	4.21	10.9	3.92	10.4	3.60	10.4	2.98	-		-		-	
	305	4631	32330		29777		27177		24551		21390		17681		12202		-		-		-	
			13.6	4.85	13.0	4.96	12.3	4.88	11.7	4.72	11.4	4.40	11.1	4.20	10.9	3.53	-		-		-	
7 1/2	320	4859	33920		31488		29011		26541		23780		20452		16042		-		-		-	
			14.6	5.60	13.8	5.72	13.1	5.66	12.5	5.54	12.1	5.21	11.8	4.98	11.5	4.51	-		-		-	
	330	5011	34980		32623		30222		27827		25249		22120		18478		7756		-		-	
			15.2	6.14	14.4	6.26	13.7	6.22	13.0	6.10	12.6	5.80	12.3	5.49	12.0	5.24	11.9	3.92	-		-	
	340	5163	36040		33753		31423		29099		26683		23753		20505		10704		-		-	
			15.7	6.72	15.0	6.85	14.2	6.82	13.5	6.69	13.0	4.43	12.8	6.09	12.6	5.89	12.4	4.55	-		-	
	350	5315	37100		34879		32620		30360		28052		25357		22313		13496		-		-	
			16.3	7.33	15.6	7.46	14.8	7.45	14.0	7.33	13.4	7.12	13.3	6.74	13.1	6.51	12.8	5.27	-		-	
10	365	5542	38690		36561		34400		32230		30063		27653		24807		17395		-		-	
			17.2	8.31	16.4	8.46	15.5	8.47	14.8	8.35	14.0	8.20	13.8	7.80	13.7	7.46	13.4	6.53	-		-	
	375	5694	39750		37679		35579		33464		31355		29105		26431		19883		10514		-	
			17.8	9.01	16.9	9.16	16.0	9.20	15.3	9.08	14.5	8.93	14.2	8.58	14.1	8.20	13.8	7.47	13.8	5.95	-	
	385	5846	40810		38793		36752		34669		32636		30501		28031		22210		13344		-	
			18.4	9.75	17.5	9.91	16.6	9.96	15.7	9.84	15.0	9.69	14.5	9.40	14.4	8.99	14.2	8.44	14.1	6.79	-	
15	410	6226	43460		41568		39661		37716		35789		33860		31769		26747		19931		11292	
			19.8	11.78	18.9	11.95	17.9	12.06	17.0	11.95	16.1	11.80	15.3	11.63	15.1	11.20	15.1	10.50	15.0	9.34	15.0	7.75
	420	6377	44520		42674		40812		38916		37034		33860		31769		26747		19931		11292	
			20.0	12.66	19.4	12.85	18.5	12.96	17.5	12.86	16.6	12.72	15.7	12.55	15.4	12.18	15.4	11.34	15.4	10.53	15.4	8.74
	430	6529	45580		43778		41959		40110		38270		36431		34539		30034		24745		16894	
			21.0	13.58	20.0	13.78	19.2	13.90	18.3	13.82	17.4	13.68	16.5	13.51	15.9	13.22	15.9	12.32	15.9	11.76	15.9	9.84
	440	6681	46640		44879		43102		41299		39498		37701		35893		31641		26675		19521	
			22.0	14.55	21.0	14.75	20.0	14.88	19.1	14.82	18.2	14.68	17.3	14.51	16.5	14.31	16.5	13.35	16.5	12.80	16.5	11.05

Performance shown is for installation type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. For further information on estimating belt drive losses and motor service factors see page 13. The sound ratings shown are for loudness values in fan sones at 5'0' (1.5m) in a hemispherical free field per AMCA Standard 301. Values shown are for installation Type A: free inlet hemispherical sone levels. Performance ratings do not include the effects of appurtenances in the airstream.

ENGINEERING SPECIFICATIONS

Model
DX = Downblast Roof Exhauster
KB = Downblast Roof Exhauster
JB = Downblast Roof Exhauster
MB = Downblast Roof Exhauster

Unit Size
06, 08, 10, 11, 12, 14, 16, 18,
24, 27, 30, 36, 420, 48, 542

Drive Type
D = Direct Drive
B = Belt Drive

Motor Tap
Q = 1725 RPM
R = 1550 RPM
S = 1300 RPM
V = 1050 RPM
Q1 = 1650 RPM
Q2 = 1725 RPM

Motor Speed
1 = Single Speed
2 = 2S2W Single & Three Phase
3 = 2S1W Three Phase

Horse Power

1/100	1/50	1/30	1/25	1/20
1/12	1/11	1/7	1/6	1/5
1/4	1/3	1/2	3/4	1
1 1/2	2	3	5	7 1/2
10	15			

Enclosure
O = Open Drip Proof
T = Totally Enclosed
E = Explosion Proof
X = Special

Voltage

A = 110V	G = 230V	N = 440V
B = 115V	H = 240V	P = 460V
C = 120V	J = 277V	Q = 480V
D = 200V	K = 380V	R = 575V
E = 208V	L = 400V	S = 600V
F = 220V	M = 415V	X = Special

Phase
1 = Single
3 = Three

Cycle
5 = 50 Hz
6 = 60 Hz

Efficiency
S = Standard
H = High Efficiency

Paint / Coating
0 = None
F = Epoxy Powder Coat*
G = Epoxy Powder Coat with UV*
H = Hi-Temp Powder Coat*
J = Non-stick Powder Coat*
K = Phenolic Powder Coat*
L = Phenolic Powder Coat with UV*
N = Polyester Powder Coat
X = Special
** Not available with choice of color.*

Color
0 = None
50 = Chrome Green
53 = Williamsburg Blue
55 = Pale Green
56 = Dove Gray
61 = White
63 = Oxford Beige
65 = Dover White
66 = Desert Tan
70 = Black
73 = Smoke Gray
77 = Brick Red
79 = Peppercorn
81 = Pale Brown
83 = Chocolate Brown
85 = Timeless Bronze
94 = Charcoal
X = Special

AMCA Spark Rating
0 = None
C = Standard
B = Optional

Damper
0 = None
BDD = Gravity Backdraft Damper
MD1 = Gravity Backdraft Damper 115V
MD2 = Gravity Backdraft Damper 230V
MD4 = Gravity Backdraft Damper 460V
ED1 = Explosion Proof Motor Operated Damper 115V

Screen
0 = None
B = Bird Screen (Standard)
S = Insect/Bird Screen

Roof Curb

0 = None	K = UCA18	V = UG18
A = UCG8	L = UG12	W = URA12
B = UCG12	M = SA16	Y = URA18
C = UCG18	N = SFG12	1 = URG12
D = UCA8	P = SFG18	10 = SFA8
E = UCA12	Q = SG16	11 = USCG
F = SFA12	R = SRA16	12 = USCA
G = SFA18	S = SRG16	2 = URG18
H = SCG16	T = UA12	4 = UVA18
J = SCA16	U = UA18	5 = UVG18

Slope
0 = None
S = Single
D = Double

Metal Liner
0 = None
L = Metal Liner

Damper Holding Plate
0 = None
P = Damper Holding Plate

Neoprene Gasket
0 = None
G = Gasket

No Wooden Nailer
0 = None
N = No Wooden Nailer

Curb Paint/Coating
0 = None
B = Air Dried Epoxy
Q = Enamel

Hinged Sub-base
0 = None
H = Hinged Sub-base

Mounting Pedestal
0 = None
P = Mounting Pedestal

Aluminum Base
0 = None
A = Aluminum Base

Thermal Overload Protection
0 = None
P = Thermal Overload Protection

Continued, next page.

ENGINEERING SPECIFICATIONS

Disconnect Switch
0 = None
1 = NEMA 1 Disconnect Switch
3R = NEMA 3R Disconnect Switch
4 = NEMA 4 Disconnect Switch
7 = NEMA 7 Disconnect Switch
9 = NEMA 9 Disconnect Switch

Internal Wiring
0 = None
1 = NEMA 1 Internal Wiring
3R = NEMA 3R Internal Wiring

Transformer
0 = None
T = Transformer

Speed Controller
0 = None
L = Loose
M = Mounted

Firestat Switch
0 = None
F = Firestat Switch

Wall Mount
0 = None
W = Wall Mount

High Pressure Wheel
0 = None
H = High Pressure Wheel

High Wind Construction
0 = None
M = Miami Dade Approved

Domex - Belt Drive Units

Belt driven centrifugal roof exhaust fan shall be Domex DX, KB, JB, MB, manufactured by PennBarry, Plano, TX 75074.

The housing shall be weatherproof, utilize heavy gauge spun aluminum construction with a large rolled bead for strength, with galvanized (aluminum optional) base, and with rigid galvanized steel internal support structures. Housing shall not provide any of the internal structural support. Units shall be equipped with an oversized electrical conduit chase through the curb cap and into the motor compartment for ease of wiring (except Explosion Proof). Units shall be pre-wired to a junction box mounted in the motor compartment & equipped with an electrical disconnect device (except Explosion Proof).

Statically and dynamically balanced backward inclined, centrifugal wheels shall be aluminum, spark-resistant, non-overloading, and matched to deeply spun venturis. Motors shall be continuous duty, ball bearing design, permanently lubricated, mounted out of the main airstream, and furnished at the specified voltage, phase, and enclosure.

Shafts shall be turned, ground, polished, and rust protected. Heavy duty ball bearings are rated for a minimum L50 life exceeding 200,000 hours. Pulleys shall be adjustable, cast iron, machined, keyed, securely attached, and sized for 150% of the horsepower at its rated maximum speed.

Each fan shall bear the AMCA Licensed Ratings Seal for Air and Sound Performance (DX) or for Air performance (KB, JB, MB), and shall be UL and CSA listed.

Domex - Direct Drive Units

Direct drive centrifugal roof exhaust fan shall be Domex DX, manufactured by PennBarry, Plano, TX 75074.

The housing shall be weatherproof, utilize heavy-gauge spun aluminum construction with a large rolled bead for strength, with galvanized (aluminum optional) base, and with rigid galvanized steel internal support structures. Housing shall not provide any of the internal structural support. Units shall be equipped with an oversized electrical conduit chase through the curb cap and into the motor compartment for ease of wiring (except Explosion Proof). Units shall be pre-wired to a junction box mounted in the motor compartment & equipped with an electrical disconnect device (except Explosion Proof).

Statically and dynamically balanced backward inclined, centrifugal wheels shall be aluminum, spark-resistant, non-overloading, and matched to deeply spun venturis. Motors shall be continuous duty, permanently lubricated, multi-speed (for applicable models), have thermal overload protection, mounted out of the main airstream, be easily accessible for service, and furnished at the specified voltage, phase.

Each fan shall bear the AMCA Licensed Ratings Seal for Air and Sound Performance, and shall be UL and CSA listed.

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Square & Round Centrifugal Fans

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Gravity Ventilators

Roof Curbs

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Tubular Centrifugal Inline Fans

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Plug & Plenum Fans

Wall Mounted Propeller Fans

Tube Axial Fans

Vane Axial Fans

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