

S&P: A Global Strategy - A Local Policy

S&P was founded in the locality of Ripoll (Spain) in 1951 by the engineers Eduard Soler and Josep Palau. From the beginning they had the clear vision that the future would depend on the expansion abroad, at first towards Europe, then to continue in the rest of the world markets.



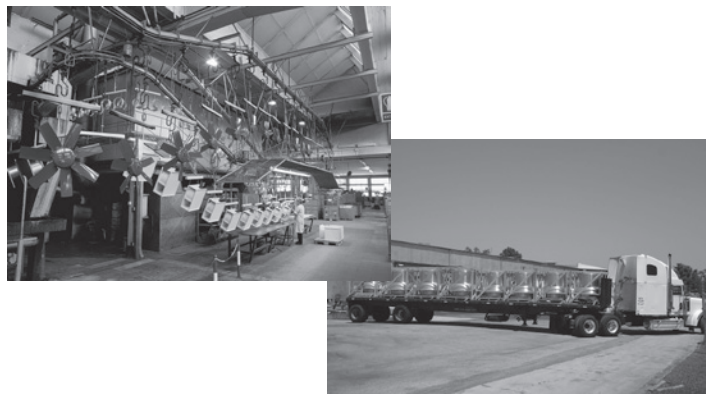
philosophy

The principle philosophy on which S&P was based on and continues to base its projects are:

Own technology: Key to any S&P projects, the concept has to be strong and consolidated over time. It is necessary that it is based on creativity and innovation to provide products, that offer benefits to the market. S&P has registered, throughout its history, over 140 patents, on more than 20 industrial models and some 120 on utility models.

Internationalization and Growth: It was clear that the guarantee of the future of the company was to open up to the world and to enter into new markets with high levels of competitiveness. This requires both a constant improvement of the existing products and development of new innovative designs. At present S&P is a world leader in ventilation, with production centers in Europe, America and Asia. A powerful distribution structure, through subsidiaries and exclusive distributors, allows S&P to be present in all the world markets, giving coverage and excellent service.

Self-financing: One of the strengths of S&P has been the constant growth and the policy of reinvestment of profits in a continuous technology improvement in the field of research & development, production and commercialization. This has allowed S&P to be a self-financed company with total independence in the decision making.



basic pillars

On the philosophical principles of the project of S&P, there are some basic pillars on which the company is sustained:

Personal development: At S&P we promote the human factor encouraging teamwork, the contribution of ideas, internal promotion and training. We encourage the delegation of responsibilities, giving confidence and full respect of the individual with the aim of ensuring that people feel part of a common project and are reflected by the Company's values.

Excellence in the management: Factors we consider fundamental are dedication, honesty, self demand, and determination to do all things well, to achieve the levels of quality and service required by our customers.

Research: In the R+D+I department, more than 60 engineers and technicians, equipped with the most modern design systems, work to obtain products with the best features. Sophisticated software allows the simulation of the behavior of the equipment already in the process of design. The goal is clear: A commitment to our customers to achieve the quality levels they expect from us.

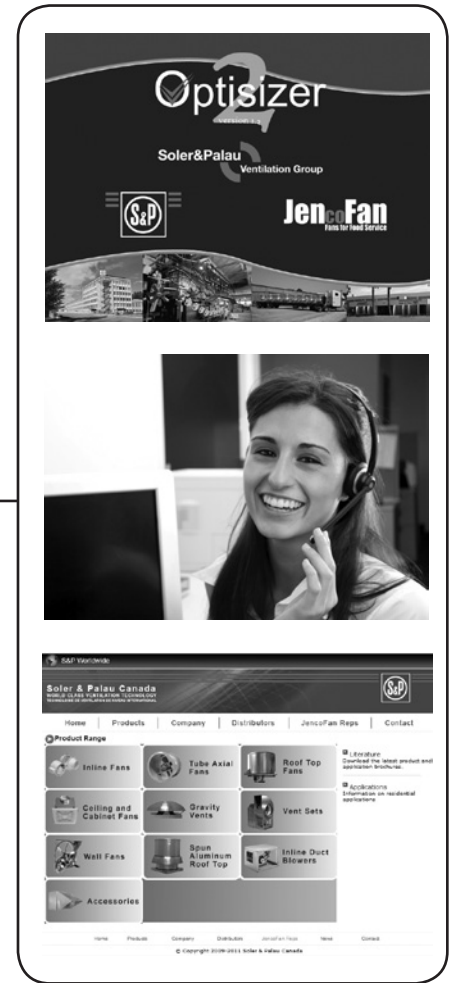
Product: Today the S&P catalog offers a range of ventilation products, both commercial and residential, with solutions for every need. With constant development work to ensure our customers and end users, not only the choice of the best model, but also the required design for ease of installation, and a full guarantee.

Quality: At S&P the contribution to the final quality begins in the design of the products. From that point on, quality remains at the center of the development throughout the company, finishing in the after-sales service. For this reason, our company is recognized all over the world for its high level of reliability of all the products offered in our catalog.

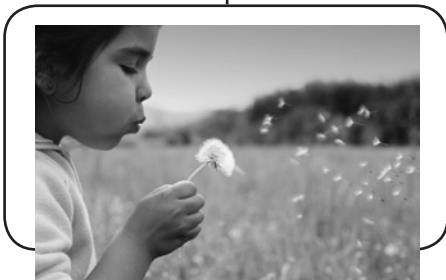


Customer service: In a market as competitive as the current one it is simply not enough to produce excellent quality. A company should offer products and a wide range of services for its customers and consultants. At S&P this principle is very clear. Thus, our customers know that they have at disposal:

- Salesmen with high technical skills
- Technical Support Service and a software designed by S&P to help professionals to choose the most suitable product for every case and a complete website on which S&P, besides showing its catalog, puts much of the knowledge accumulated throughout more than 60 years of experience of the company at the professional's disposal.



Respect for the environment: A policy that was not respectful with the environment would be incompatible with the S&P philosophy. Our actions today implicate us deeply in the legacy that we are going to leave our children.



Model	Mounting Location				Airflow		Application							Drives			Impeller Type		Warranty			
	Roof Curb	Floor/Base	Hanging	Wall	Ceiling	Exhaust	Supply	General/Clean Air	Contaminated Air	Spark Resistant	Grease/Restaurant (UL762)	Smoke Control (UL)	High Wind Load (Certified)	High Temp above 200° F	Energy Recovery	Belt	Direct	Centrifugal	Propeller	Mixed Flow	Fan (years)	Motor (years)
Propeller Sidewall Fans																						
LC/L2/L3			X			X	X	X		X						X			X		2	1
G/DD/DF			X			X	X	X									X		X		5	1
WA			X			X	X	X									X		X		5	-
Propeller Roof Ventilators																						
HRSB/HRSD	X						X	X								X	X		X		2	1
HREB-C/HRED-C	X					X		X								X	X		X		2	1
UBS	X					X		X	X							X			X		2	1
UBSRD	X					X		X	X							X			X		2	1
UBSRD-HT/HT-1	X					X		X	X		X					X			X		1	1
UBB/UBX	X					X		X	X							X	X		X		2	1
UBRD	X					X		X	X							X			X		2	1
TUB	X					X		X	X							X			X		2	1
TUB-HT	X					X		X	X		X					X			X		1	1
Inline Tubeaxial																						
TDB		X	X		X	X	X	X	X	X						X			X		2	1
TDD		X	X		X	X	X	X	X	X							X		X		2	1
DA		X	X		X	X	X	X	X	X							X		X		5	-

See Warranty Statement on Page 6



Limited Warranty

Soler & Palau Canada, 5600 Ambler RD., Mississauga ON., warrants equipment of its manufacture to be free from defects in design, materials and workmanship (exclusive of abrasion, corrosion or erosion) for one (1) , two (2) or five (5) year(s) as noted from the date of shipment to the original purchaser or the date of notification of readiness to ship. Motor warranty is one (1) or three (3) year(s) as noted. In order to claim the benefit of this warranty, buyer must notify manufacturer in writing of the claimed defect within ten (10) days after discovering it and return this equipment or parts to the manufacturer with transportation prepaid. In the event of on-site repair, no service technician will be dispatched until manufacturer receives your written purchase order. If any of the following conditions exist, the warranty will be null and void: (1) Buyer has permitted other persons not approved or authorized by manufacturer to alter, adjust, replace or repair the equipment or any part thereof. (2) Buyer has not followed instructions or other directions given in the contract documents or our maintenance manual. (3) When breakage or other loss or damage is the result of any negligence, misuse or fault on the part of any operator or other person not under our supervision or control. (4) The defect is the result of designs or drawings made, furnished or specified by others. (5) In the case of goods not manufactured but supplied by the manufacturer as part of a contract, manufacturer shall only be liable to the same extent that our supplier is to manufacturer, not to exceed any liability manufacturer would have for warranty on our own equipment. (6) Buyer has not paid in full invoices submitted to the buyer which are due for payment. (7) Unusual wear and tear of the equipment.

Statements relating to the product, its use or installation made prior to the execution of the agreement, are not warranties except to the extent that the contrary is expressly set forth herein. It is understood that such statements were not intended to, and did not, form a part of the agreement; they were merely made in the course of negotiations of the parties.

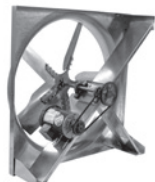
THIS WARRANTY IS IN LIEU OF ANY OTHER EXPRESSED OF IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. OUR SOLE AND EXCLUSIVE OBLIGATION UNDER THIS WARRANTY IS TO REPAIR OR REPLACE DEFECTIVE EQUIPMENT OR PARTS OR, AT OUR OPTION, TO PAY THE REASONABLE COST OF REPAIR OR REPLACEMENT. BUYER AGREES THAT NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES, DAMAGE FOR LOST PROFITS OR SALES, OR DAMAGES FOR INJURIES TO PERSON OR PROPERTY) SHALL BE AVAILABLE. NOTWITHSTANDING THE ABOVE, THE TOTAL AMOUNT THAT MAY IN ANY EVENT BE PAYABLE IN SETTLEMENT OR LIABILITY, HOWEVER INCURRED, SHALL NOT EXCEED THE CONTRACT PRICE.

Product Catalog Index

Propeller Sidewall Fans (Exhaust or Supply)

BELT DRIVE MODELS LOW PRESSURE

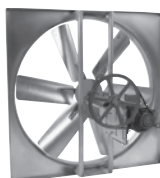
MODEL LC



23

BELT DRIVE MODELS MEDIUM PRESSURE

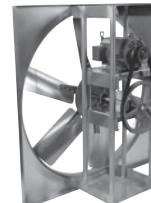
MODEL L2



24

BELT DRIVE MODELS HIGH PRESSURE

MODEL L3



25

DIRECT DRIVE MODELS LOW PRESSURE

MODEL GED/GSD



47

DIRECT DRIVE MODELS MEDIUM PRESSURE

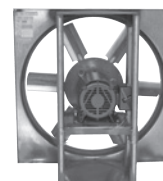
MODEL DFE/DFS



49

DIRECT DRIVE MODELS HIGH PRESSURE

MODEL DDE/DDS



51

MODEL WA



54

MODEL S



57

Propeller Roof Ventilators (Exhaust or Supply)

DIRECT DRIVE MODELS

MODEL HRED-C (EXHAUST)



69

MODEL HRSD (SUPPLY)



60

MODEL UBX (EXHAUST)



88

SPECIAL APPLICATION MODELS

MODEL UBSRD-HT/HT1
(EXHAUST, LIGHT DUTY, REMOTE DRIVE)



84

MODEL TUB-HT
(EXHAUST, HEAVY DUTY, REMOTE DRIVE)



105

Product Catalog Index

Propeller Roof Ventilators (Exhaust or Supply)

BELT DRIVE MODELS

MODEL HREB-C (EXHAUST)



MODEL HRSB (SUPPLY)



MODEL UBS (EXHAUST, LIGHT DUTY)



MODEL UBSRD (EXHAUST, LIGHT DUTY,
REMOTE DRIVE)



MODEL UBB (EXHAUST, LIGHT DUTY)



MODEL UBRD (EXHAUST, LIGHT DUTY,
REMOTE DRIVE)



MODEL TUB (EXHAUST, HEAVY DUTY,
REMOTE DRIVE)



Inline Tubeaxial

BELT DRIVE MODELS

MODEL TDB



MODEL DA



DIRECT DRIVE MODELS

MODEL TDD



Propeller Sidewall Fan Index

BELT DRIVE FANS 11

MODEL LC (Low Pressure) 23

MODEL L2 (Medium Pressure) 24

MODEL L3 (High Pressure) 25

DIRECT DRIVE FANS 35

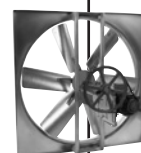
GED/GSD (Low Pressure) 47

DFE/DFS (Medium Pressure) 49

DDE/DDS (High Pressure) 51

WA (Low Pressure) 54

S FAN 57



MODELS LCE/LCS, L2E/L2S, L3E/L3S




BELT DRIVE SIDEWALL PROPELLER FANS

LINE OVERVIEW

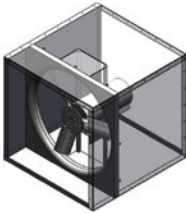
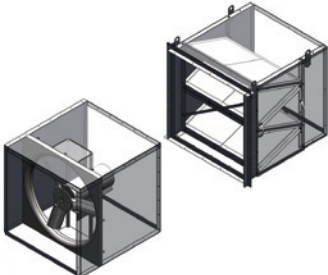
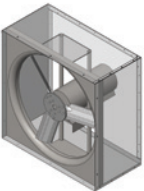
S&P's Belt Drive Sidewall Propeller Fan line is designed to exhaust or supply large volumes of air at relatively low static pressures. With 3 levels of construction, the belt drive models are for use in a variety of applications for commercial, industrial and agricultural buildings such as manufacturing and assembly plants, warehouses, parking garages, gymnasiums, equipment rooms, distribution centers, foundries, boiler rooms, greenhouses and OEM applications. The direct drive models provide general ventilation for a wide variety of buildings and enclosed areas within buildings. Examples include factories, assembly plants, warehouses, gymnasiums, garages, jails, machine rooms and many others.

These Sidewall Propeller Fans are rated from 3,000 to 85,000 CFM with static pressures to 1" w.g. Models range from 20 to 72". A wide range of accessories are available to meet any need or specification. See the below Model Comparison to find the right Belt Drive Sidewall Propeller Fan for your application.

MODEL COMPARISON

Construction Level		Model	Size Range	Performance	Model Overview On Page
1	 G90 galvanized steel blades bolted to an epoxy coated hub	LCE LCS	20 to 60"	3,000 to 40,000 CFM up to .625" w.g.	23
2	 G90 galvanized steel blade bolted to a welded, structural steel hub plate	L2E L2S	24 to 60"	5,000 to 47,000 CFM up to .75" w.g.	24
3	 G90 galvanized steel with double 16 gauge laminations bolted to a welded, structural steel hub plate	L3E L3S	42 to 72"	35,000 to 85,000 CFM up to 1" w.g..	25

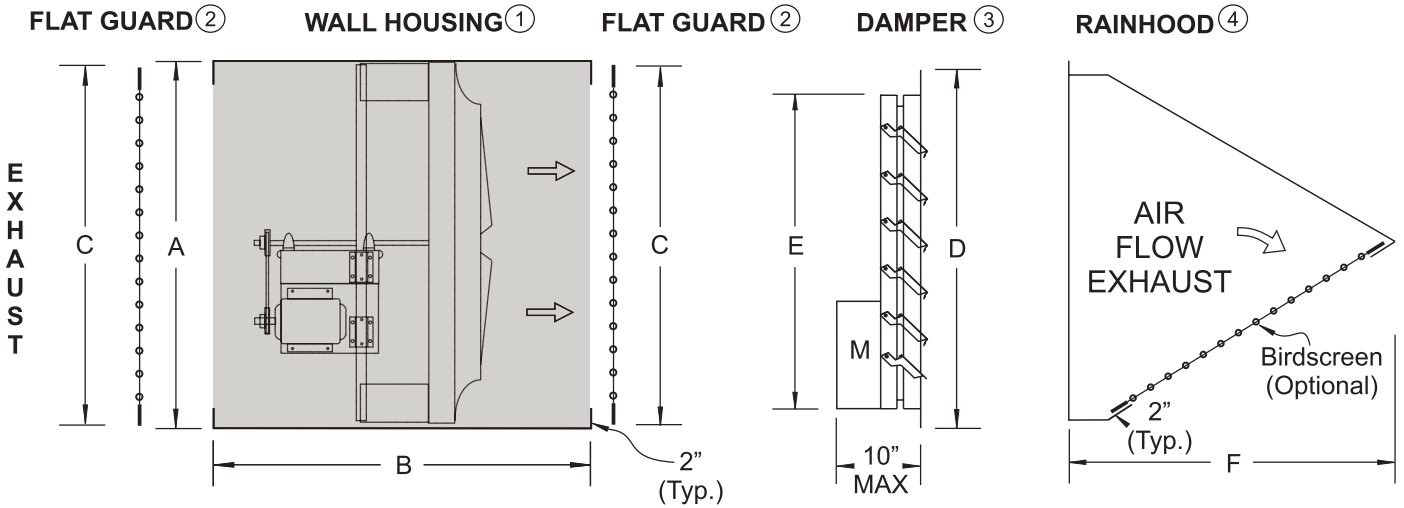
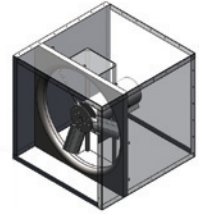
MOUNTING ARRANGEMENT OPTIONS

Page	Mounting Arrangement	Description
12-13	Wall Housing 	Heavy-gauge, all galvanized G-90 steel housing provides a simple solution to installing a fan and all required accessories in a rough wall opening. It can be used in exhaust or supply applications and in fan sizes 20 through 72 inch.
14-15	Filtered Wall Housing 	For installations where filtering is required. Heavy-gauge, all galvanized G-90 steel filtered wall housings are available in both supply and exhaust configurations. They are available in eight (8) sizes for fans ranging from size 20 to 60 inches. They are designed with the draw-thru concept to achieve the highest filter and fan efficiencies.
16	Wall Collar 	Heavy-gauge, all G-90 galvanized mounting collar provides a simple solution to installing a fan in a rough wall opening when a rear safety guard is NOT required.

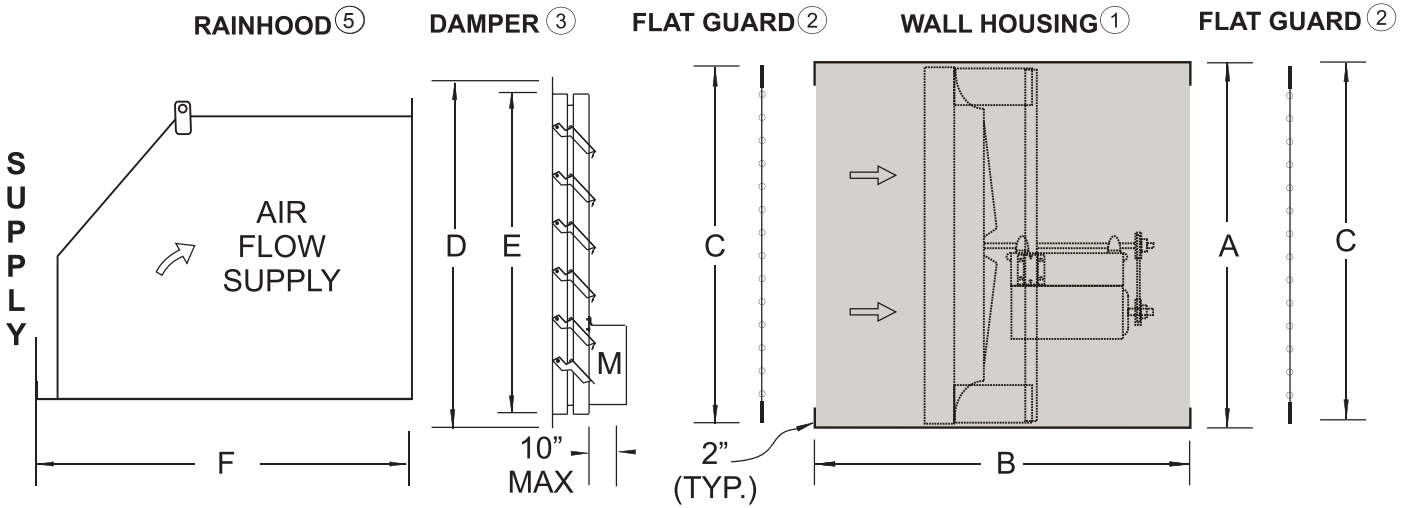


WALL HOUSING MOUNTING OPTIONS

This heavy-gauge, all galvanized G-90 steel housing provides a simple solution to installing a fan and all required accessories in a rough wall opening. It can be used in exhaust or supply applications and in fan sizes 20 through 72 inch. Depending on space and maintenance requirements, the wall housing may be installed inward or outwards of the building. All housings ship assembled with the fan to lessen job site installation costs. Wire guards, shutters and/or rainhoods may be attached to the prepunched flange. We strongly recommend rainhoods and motorized shutters for all supply applications and whenever additional weather protection is desired.



Fan Size	Wall Housing ①		Minimum Wall Opening	Flat Guard ②	Damper ③		Exhaust	Supply
	A (Sq. O.D)	B Length			Optional Rainhood 45 Deg. ④	Required Rainhood 90 Deg. ⑤		
		Exh/Sup						
LC, L2 & L3	(Sq)	C (Sq)	D (O.D)	E	F	F		
20	25	44 or 32	25 1/2	24	22 1/2	20	24 1/4	27 3/4
24	31	44 or 32	31 1/2	30	28 1/2	26	28 1/2	38 1/2
30	37	44 or 32	37 1/2	36	34 1/2	32	34 1/2	44 1/2
36	43	44 or 32	43 1/2	42	40 1/2	38	40 1/2	49
42	49	44 or 32	49 1/2	48	46 1/2	44	44 1/2	56 1/2
48	55	44 or 32	55 1/2	54	52 1/2	50	49 1/2	62 1/2
54	61	44	61 1/2	60	58 1/2	56	55	73
60	67	44	67 1/2	66	64 1/2	62	69	73
72	81	44	81 1/2	80	78 1/2	76	75 1/2	73

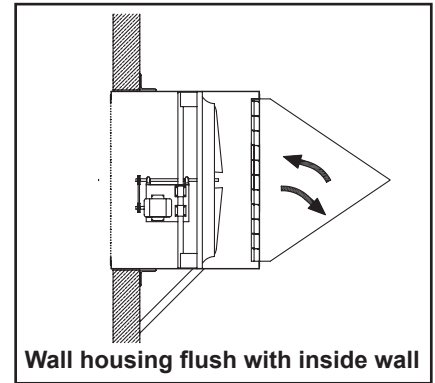
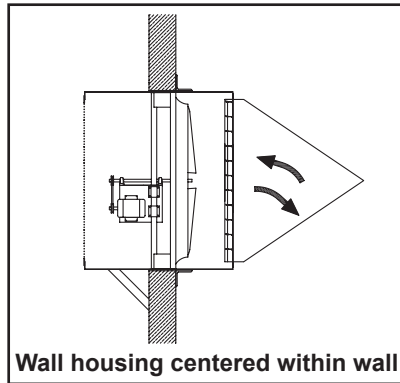
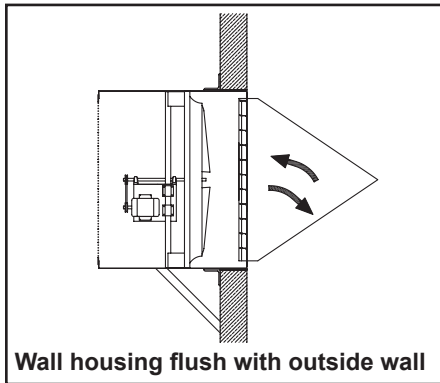


Rainhood recommended for supply applications.



WALL HOUSING STANDARD MOUNTING ARRANGEMENTS

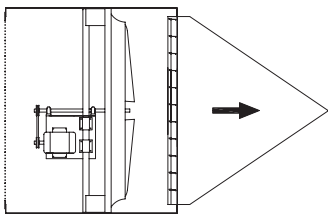
The most common mounting arrangement (below left) leaves a clean building exterior and allows access to the fan, motor and drives from inside the building. Additional bracing angle, rod or cable (field provided) should be used in addition to the mounting angles to support the fan and wall housing assembly.



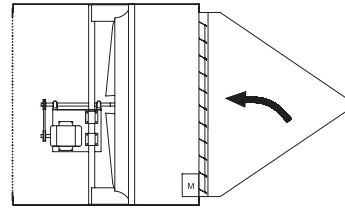
NOTE: Supply applications have the fan venturi spun on the opposite side of the fans shown above. The fans shown are exhaust. Rainhoods are required on supply applications and recommended on exhaust applications where additional weather protection is desired. Exhaust and/or supply fans installed as shown should be serviced from the interior of the building. Where service is required from the exterior of the building, consult the factory or representative for recommendations. All bracing shown is field provided. Field flashing and caulking of wall housing seams and unused mounting holes, will ensure a weather resistant installation.

PRESSURE LOSS GUIDE FOR WALL HOUSING ACCESSORIES

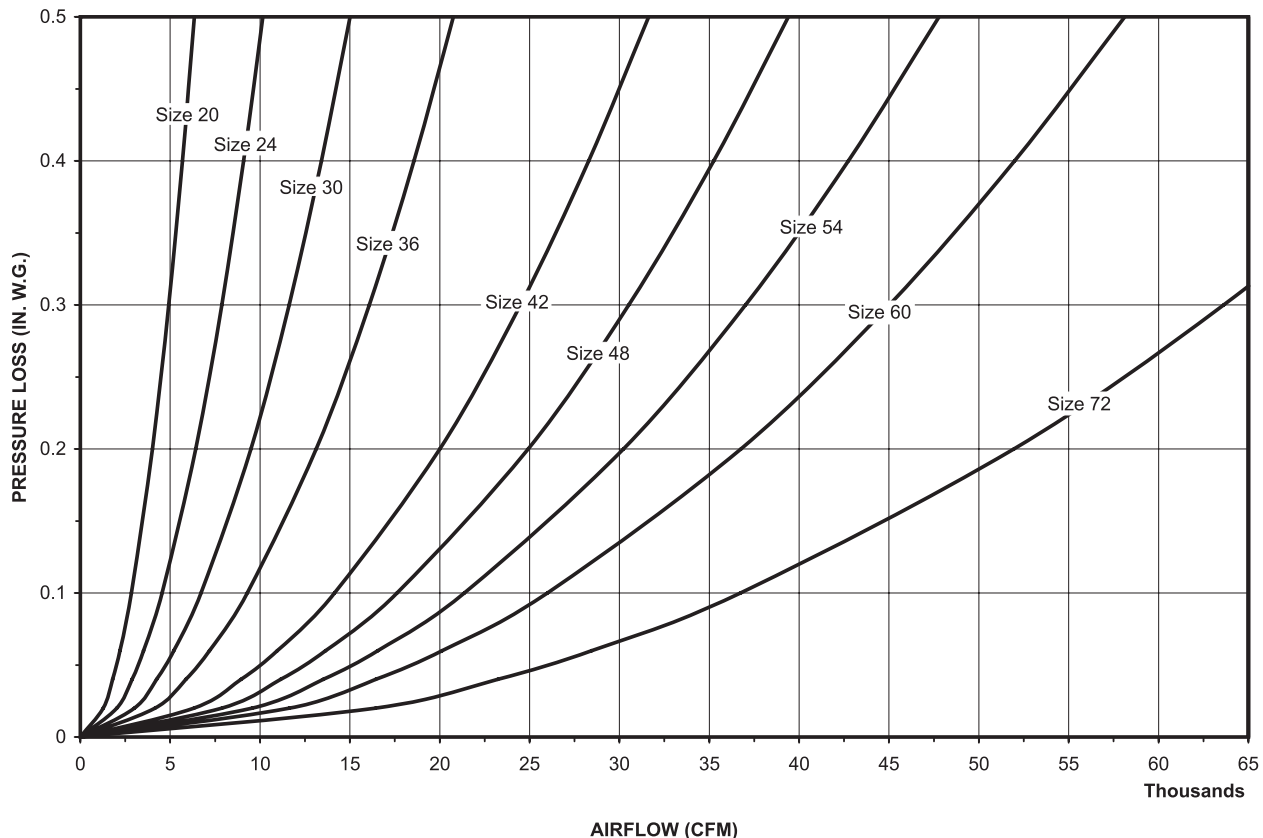
Use the estimated pressure drop graphs to help select the proper exhaust or supply fan package that will deliver the desired airflow. Enter the graph from the bottom at the specified CFM and move vertically upward to the fan curve for the desired fan size, then horizontally to the left and read the estimated static pressure drop resulting from these typical accessory packages. Add the accessory pressure loss to the system (or building) design static pressure loss to obtain the total static pressure loss to be used for the proper fan selection.

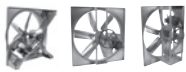


Exhaust Airflow
 with Wall Housing
 Gravity Damper
 Rainhood
 Motorside Guard



Supply Airflow
 with Wall Housing
 Gravity Damper
 Rainhood
 Motorside Guard

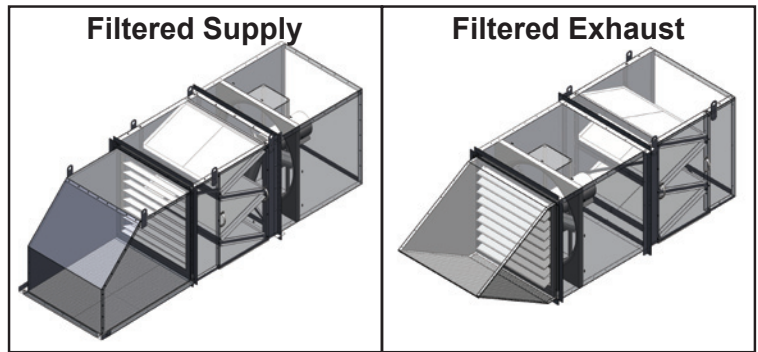




FILTERED WALL HOUSING MOUNTING OPTIONS

Filtered wall housings are available in both supply and exhaust configurations. They are available in eight (8) sizes for fans ranging from size 20 to 60 inches. They are designed with the draw-thru concept to achieve the highest filter and fan efficiencies.

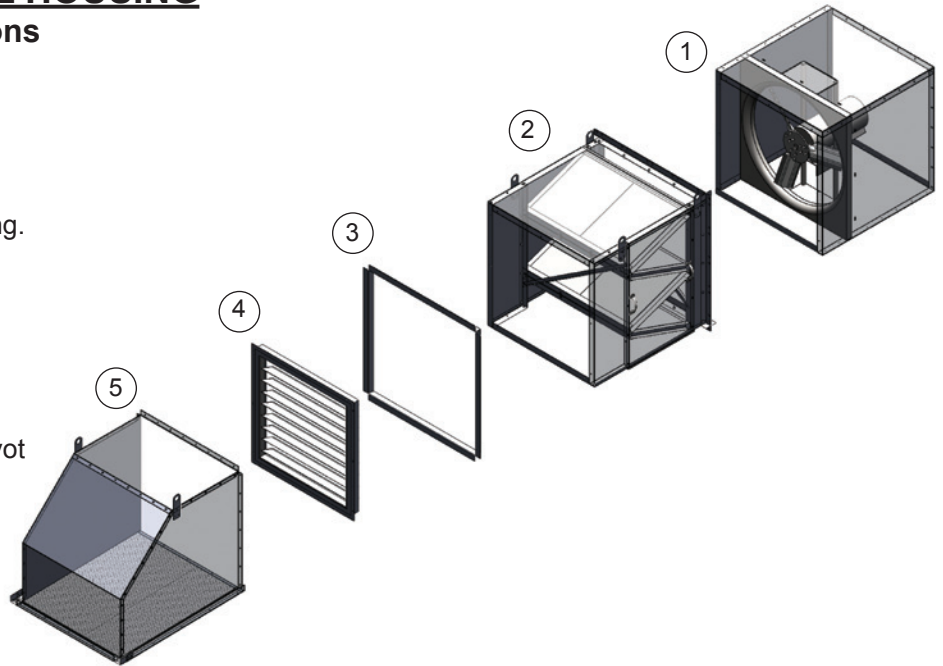
Standard construction is galvanized steel. Mounting flanges are factory installed for either flush exterior or flush interior. Permanent 2-inch (51 mm) washable filters are accessed through a bolted or hinged panel and can be easily removed for cleaning.



FILTERED SUPPLY WALL HOUSING

Standard Features and Options

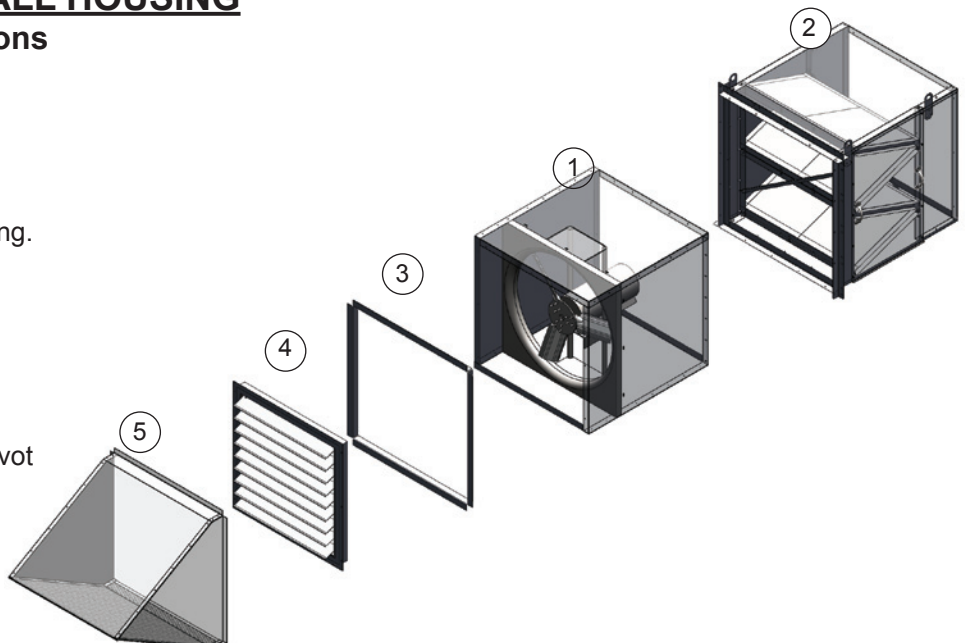
1. **Wall Housing Box (Standard)**
2. **Filter Box (Standard)**
 - Bolted or Hinged Door
 - Includes 2 sets of flanges for mounting filter box to wall housing.
3. **Wall Mount Flanges (Standard)**
 - Set of 4 - shipped loose
4. **Damper ()**
 - Supply Type
 - Gravity, Motorized, or Center Pivot
5. **Rain Hood (Optional)**
 - 90 Degree - Supply Type



FILTERED EXHAUST WALL HOUSING

Standard Features and Options

1. **Wall Housing Box (Standard)**
2. **Filter Box (Standard)**
 - Bolted or Hinged Door
 - Includes 2 sets of flanges for mounting filter box to wall housing.
3. **Wall Mount Flanges (Standard)**
 - 1 set of 4 - shipped loose
4. **Damper (Optional)**
 - Exhaust Type
 - Gravity, Motorized, or Center Pivot
5. **Rain Hood (Optional)**
 - 45 Degree - Exhaust Type

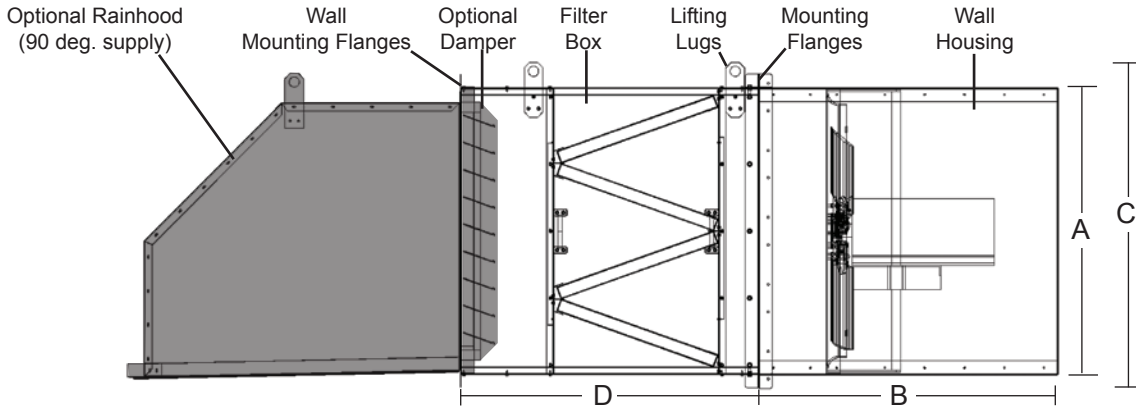




FILTERED WALL HOUSING MOUNTING OPTIONS Cont.

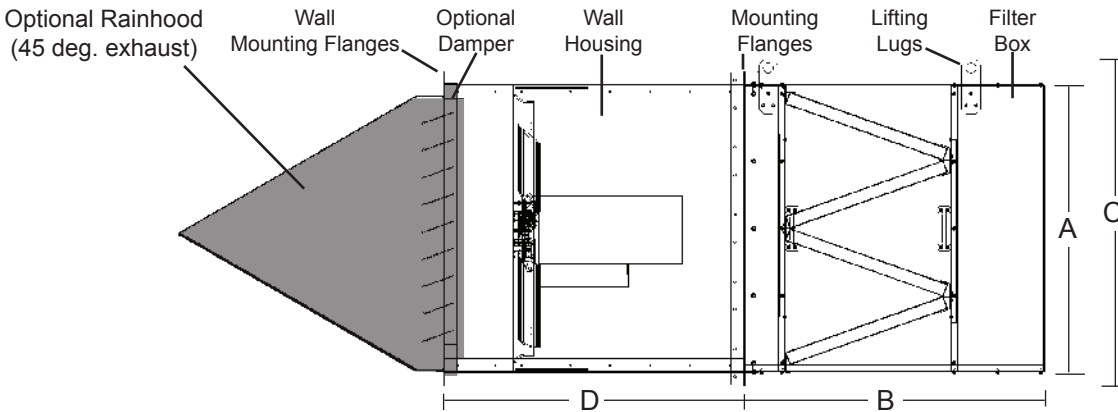
Filtered Wall Housing Dimensions

Filtered Supply



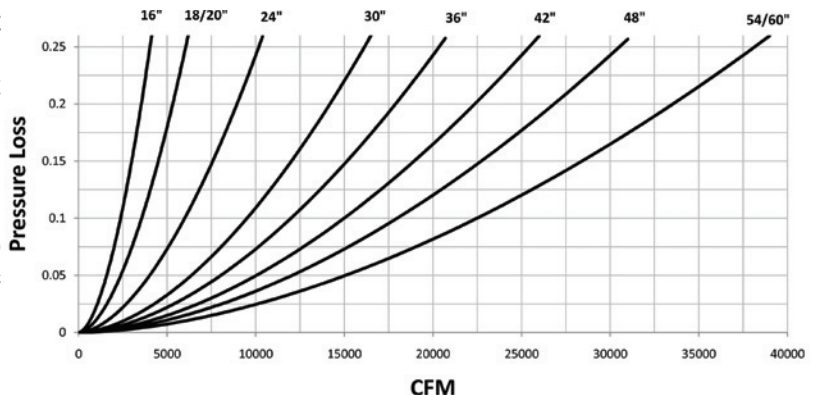
Fan Size	Wall Housing		Minimum Wall Opening Sq	Filter Box			
	A	B Length LC & L2		C	D	# of Filters	Filter Actual Dimensions
20	25	44-32	25 1/2	25	44 1/8	3	19 5/8 x 24 5/8 x 1 7/8
24	31	44-32	31 1/2	31	41 1/8	4	19 5/8 x 24 5/8 x 1 7/8
30	37	44-32	37 1/2	37	44 1/8	8	15 5/8 x 24 5/8 x 1 7/8
36	43	44-32	43 1/2	43	44 1/8	8	19 5/8 x 24 5/8 x 1 7/8
42	49	44-32	49 1/2	49	44 1/8	10	19 5/8 x 24 5/8 x 1 7/8
48	55	44-32	55 1/2	55	40 1/2	12	19 5/8 x 24 5/8 x 1 7/8
54	61	44	61 1/2	61	44 1/8	15	19 5/8 x 24 5/8 x 1 7/8
60	67	44	67 1/2	67	44 1/8	15	19 5/8 x 24 5/8 x 1 7/8

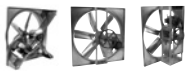
Filtered Exhaust



PRESSURE LOSS GUIDE FOR FILTER BOX

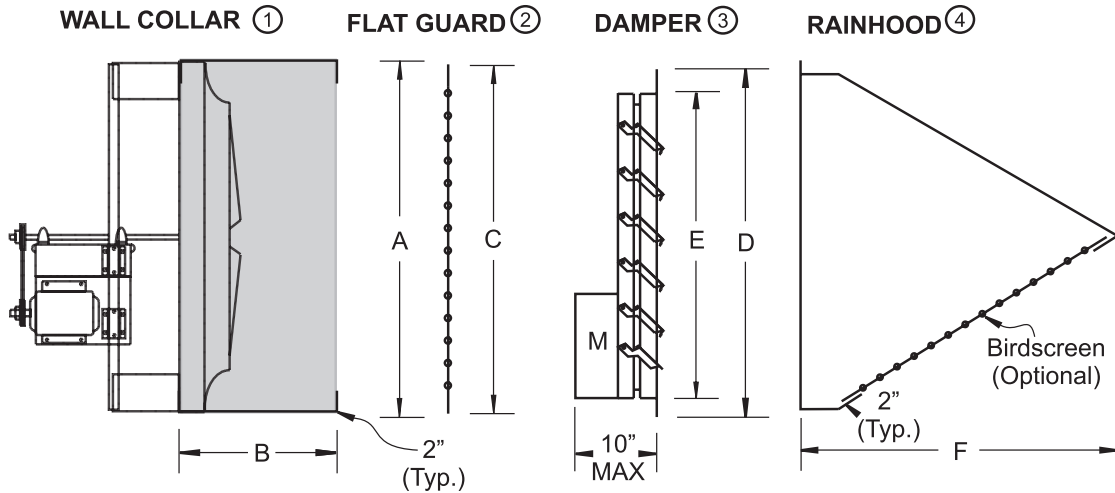
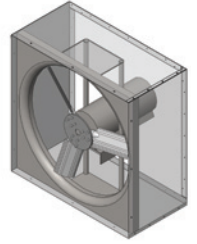
Use the estimated pressure drop graphs to help select the proper exhaust or supply fan that will deliver the desired airflow. Enter the graph from the bottom at the specified CFM and move vertically upward to the fan curve for the desired size, then horizontally to the left and read the estimated static pressure drop resulting from these typical accessory packages. Add the accessory pressure loss to the system (or building) design static pressure loss to obtain the total static pressure loss to be used for the proper fan selection.





WALL COLLAR MOUNTING OPTION

The heavy-gauge, all G-90 galvanized mounting collar provides a simple solution to installing a fan in a rough wall opening when a rear safety guard is **NOT** required. A front wire guard, shutter, and/or rainhood can be attached to the front prepunched flanges. The wall collar can be used in exhaust or supply applications for all fan sizes. The wall collar is mounted with the fan on the interior side of the building. All collars ship fully assembled with the fan to lessen jobsite installation costs. We strongly recommend rainhoods and motorized shutter for all supply applications as well as for exhaust applications where additional weather protection is desired.



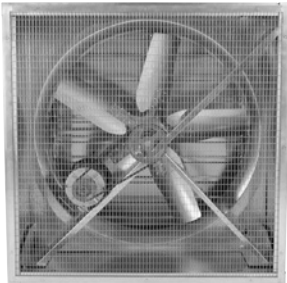
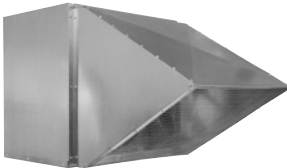

Dimensions

Fan Size	Wall Collar ①		Minimum Wall Opening	Flat Guard ②	Damper ③		Rainhood ④
	A	B	Sq	C	D (O.D)	E	F
20	24 1/4	21	25 1/2	24	22 1/2	20	24 1/4
24	30 1/4	21	31 1/2	30	28 1/2	26	28 1/2
30	36 1/4	21	37 1/2	36	34 1/2	32	34 1/2
36	42 1/4	21	43 1/2	42	40 1/2	38	40 1/2
42	48 1/8	21	49 1/2	48	46 1/2	44	44 1/2
48	54 1/8	21	55 1/2	54	52 1/2	50	49 1/2
54	60 1/8	21	61 1/2	60	58 1/2	56	55
60	66 1/8	21	67 1/2	66	64 1/2	62	69
72	80 1/8	26	81 1/2	80	78 1/2	76	75 1/2

(a) Level 3 Construction requires a deeper motorside guard as shown.
 Unless shown otherwise supply and exhaust dimensions are similar.



ACCESSORIES & OPTIONS FOR MOUNTING ARRANGEMENTS

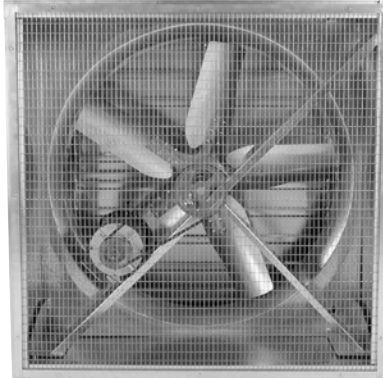
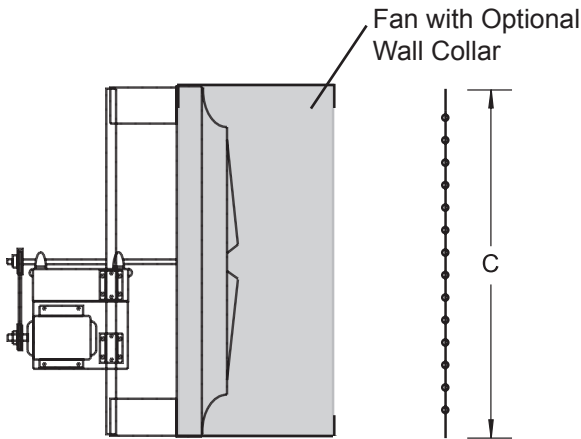
Accessory or Option	
	<p>Safety Guards Safety Guards (Standard or Heavy-Duty Flat Guards) are strongly recommended to protect personnel from accidental injury and to prevent debris from entering the fan. OSHA approved guards are required in many installations including when the fans are within 7 feet of the floor or work/access area.</p>
	<p>Rainhoods or Weatherhoods Designed to provide additional weather protection by partially shielding the wall opening and should be used for all supply applications and whenever additional weather resistance is desired. The galvanized (aluminum optional) hood attaches to the wall housing or wall collar flanges. Field flashing and caulking will reduce moisture penetration. Shown with optional birdscreen.</p>
	<p>Dampers Used alone or in conjunction with the wall housing or wall collar, a complete line of dampers are available for exhaust or supply configurations.</p>



ACCESSORIES & OPTIONS FOR MOUNTING ARRANGEMENTS Cont.

Safety Guards

Safety guards are strongly recommended to protect personnel from accidental injury and to prevent debris from entering the fan. OSHA approved guards are required in many installations including when the fans are within 7 feet of the floor or work/access area.

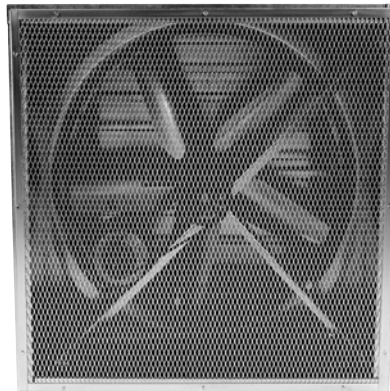


Standard Duty Flat Wire Guard

The removable safety guard satisfies OSHA requirements when used with the optional wall housing as a motor-side (rear) guard. The 16 ga. 1/2" X 1" welded wire mesh is mounted in a galvanized frame and attaches to the inward flanges of the wall housing.

Dimensions

Fan Size	C
20	24
24	30
30	36
36	42
42	48
48	54
54	60
60	66
72	80



Heavy-Duty Flat Wire Guard

The removable safety guard satisfies OSHA requirements when used with the optional wall housing as a motor-side (rear) guard. The H.D. expanded aluminum mesh is mounted in a galvanized frame and attaches to the inward flanges of the wall housing.



ACCESSORIES & OPTIONS

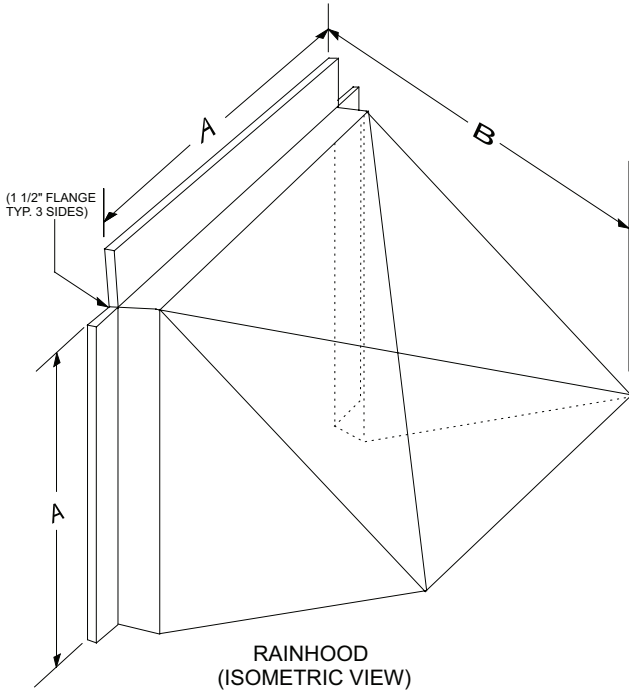
FOR MOUNTING ARRANGEMENTS Cont.

Rainhoods or Weatherhoods

Designed to provide additional weather protection by partially shielding the wall opening and should be used for all supply applications and whenever additional weather resistance is desired. The galvanized (aluminum optional) hood attaches to the wall housing or wall collar flanges. Field flashing and caulking will reduce moisture penetration. Shown with optional birdscreen.

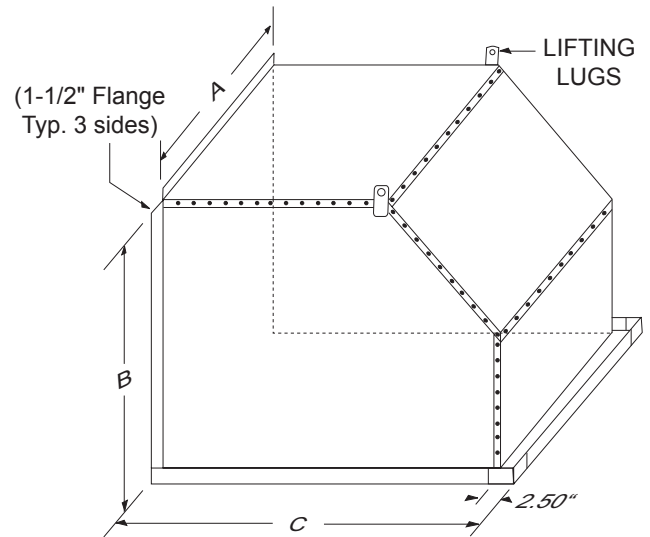


45 Degree Exhaust

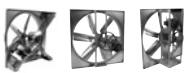


Fan Size	A	B	GAUGE (2)	AVG. WT.
20	22	24-1/4	18	25
24	28	28-1/2	18	30
30	34	34-1/2	18	40
36	40	40-1/2	18	50
42	46	46-1/2	18	60
48	52	49-1/2	16	70
54	58	58-1/2	16	120
60	64	64-1/2	16	175
72	78	64-1/2	16	200

90 Degree Supply



Fan Size	A	B	C	GAUGE (2)	AVG. WT.
20	22	22	27-3/4	18	25
24	27-1/4	26-1/2	38-1/2	18	30
30	32-1/2	33-1/2	44-1/2	18	40
36	38-1/2	39-1/4	49	18	50
42	44-1/2	45-1/4	56-1/2	18	60
48	50-1/2	51-1/2	62-1/2	18	70
54	56-3/4	57	73	18	120
60	62-3/4	63	73	18	175
72	76-3/4	76-3/4	73	18	200



ACCESSORIES & OPTIONS **FOR MOUNTING ARRANGEMENTS Cont.**

Damper Types (Shutters)

Heavy-Duty Galvanized Exhaust Motorized Shutter



This damper has a flanged frame and is designed to fit the inside flanges of the optional wall housing or wall mounting collar. The frame and blades are constructed of galvanized steel and are rated to 3000 FPM with proper clearance as provided by all factory accessories. The damper body recesses into the opening for a flush appearance.

Standard Duty Aluminum Exhaust Gravity Shutter



This damper can greatly reduce the infiltration of outside air and although not completely watertight, will provide weather protection in an economical fashion. Constructed with a galvanized frame and aluminum blades this damper is rated to 2000 FPM with the proper clearance as provided by all factory accessories. The damper body is recessed into the opening for a flush appearance.

Heavy-Duty Galvanized Supply Motorized Shutter



The motorized option improves weather protection by providing a tighter closure seal and is recommended for all supply applications. Heavy-duty dampers are constructed with galvanized frames and blades and are rated to 3000 FPM. The damper body is not recessed providing extra clearance between the fan and damper blades.

Standard Duty Aluminum Supply Motorized Shutter



The motorized option improves weather protection by providing a tighter closure seal and is recommended for all supply applications. Standard duty dampers are constructed with galvanized frames and aluminum blades and are rated to 2000 FPM. The damper body is not recessed providing extra clearance between the fan and damper blades.

Center Pivot Motorized Damper - Supply or Exhaust



The flanged frame damper is designed to recess inside the flanges of the optional wall housing or wall mounting collar. The center pivot style damper provides superior weather resistance. Galvanized (optional aluminum) construction is rated to 3500 FPM with proper clearance as provided by all factory accessories.

Electric Damper Operators

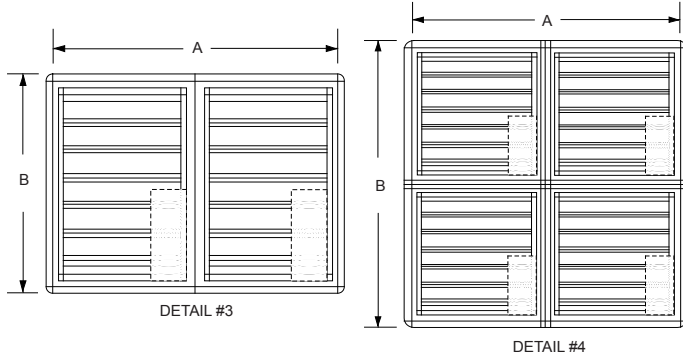
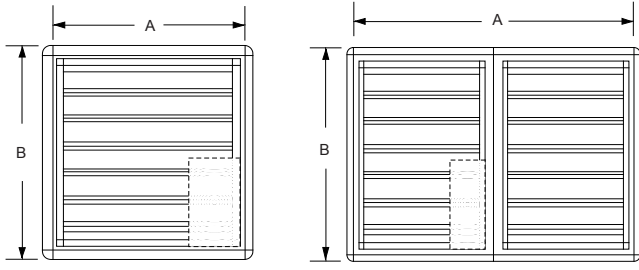
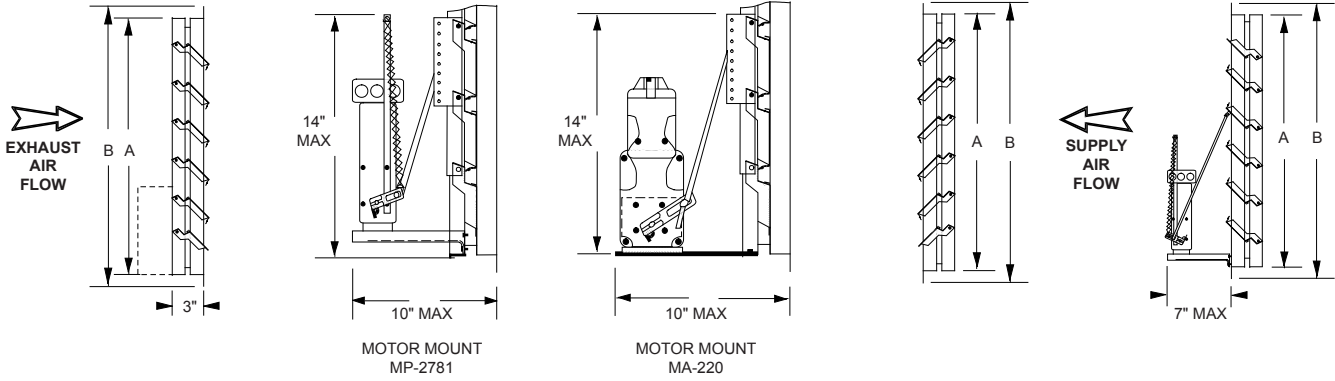
Electric damper operators provide more positive open and closed damper positions which helps increase weather resistance. Power open - spring close (POSC) motor and linkage kits are field installed (except for center pivot style) and are available in 24, 120/240, or 460 volts (single phase) and require approximately 0.5 amps at 120/1/60 power supply. Transformers are available for voltage reduction. For fan motors 5HP and larger, we recommend a factory tilt switch or "delay-on" timer in the control circuit (by others) to allow the damper to open prior to allowing fan operation, which will protect the damper blades and fan from damage when the fan is first energized.



ACCESSORIES & OPTIONS

FOR MOUNTING ARRANGEMENTS Cont.

Dimensions (Standard and Heavy-Duty Dampers)



Fan Size	A Sq. Size	B Sq. OD Flange	Panels (Detail)	Motor Type			
				Exhaust		Supply	
				Type	Qty	Type	Qty
20	20	22 1/2	1	MP-2781	1	MP-2781-S	1
24	26	28 1/2	1	MP-2781	1	MP-2781-S	1
30	32	34 1/2	1	MP-2781	1	MA-220-S	1
36	38	40 1/2	1	MA-220	1	MA-220-S	1
42	44	46 1/2	2	MA-220	1	MA-220-S	2
48	50	52 1/2	2	MA-220	1	MA-220-S	2
54	56	58 1/2	3	MA-220	2	MA-220-S	2
60	62	64 1/2	3	MA-220	2	MA-220-S	2
72	77	79 1/2	4	MA-220	4	MA-220-S	4

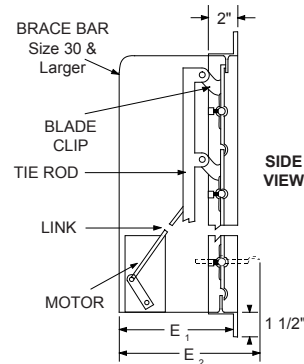
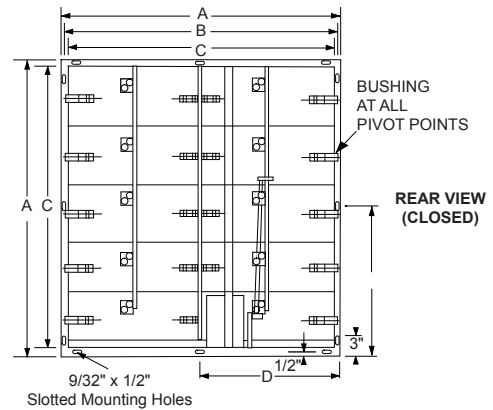
Heavy Duty Dampers required on all units with 7 1/2HP motors and above.

Dimensions (Center Pivot Motorized Damper)

Fan Size	Opening Required	A O.D.	B (1)	C "Size"	D (Center of Holes)	# of Panels	G	
							Closed (E-1)	Open (E-2)
24	27	29	24-1/2	26	-	1 x 1	7-1/4	8-1/2
30	33	35	30-1/2	32	-	1 x 1	10-1/4	13-3/4
36	39	41	36-1/2	38	19-1/2	1 x 1	10-1/4	13-3/4
42	45	47	42-1/2	44	22-1/2	1 x 1	10-1/4	13-3/4
48	51	53	48-1/2	50	25-1/2	2 x 1	10-1/4	13-3/4
54	57	59	54-1/2	56	28-1/2	2 x 1	10-1/4	12-3/4
60	63	65	60-1/2	62	31-1/2	2 x 1	10-1/4	12-3/4
72	77	79	76-1/2	76	39-1/2	2 x 1	10-1/4	12-3/4

Fan Size	Motor (2)		
	Power Supply	Max Amps	Stall Torque (in. lbs)
24-48	120-240V 60Hz	0.3/0.6	25
54-60	240V 60Hz	0.5	60

(1) Minimum opening to clear pins.
 (2) Motor is 60 Hz, single phase continuous duty with 104°F (40°C), maximum ambient temperature





ACCESSORIES & OPTIONS

Electrical Accessories are available to simplify the installation and reduce the total project cost.

Disconnect Switches can be shipped loose or factory mounted and wired (except explosion proof and two speed) in NEMA 1, 3R, 4X, or other enclosures. Two-speed and explosion proof disconnects are available but may be subject to more stringent code requirements. It is the responsibility of the buyer and the installer to comply with all local and national codes.

Aluminum Construction is available for most models and typically includes propeller blades, fan panel, motor and drive support (large frame motors may have steel reinforcement) and accessories. When an explosion proof motor is specified, aluminum fan construction must be used for additional spark resistance.

cULus705 or UL705 Listing is available for sidewall propeller fans with most motors and should be specified for electrical safety and reliability.

Extended Lube Lines provide convenient access for routine bearing lubrication. Lubrication lines are installed from the fan shaft bearings to the exterior of the wall housing or sheet metal motorside guard and are provided with zerk fittings.

Paints and Coatings for protective and decorative purposes. Available coatings include: Epoxy, Synthetic Resin, and Heresite (air-dried phenolic). Contact your Soler & Palau representative or the factory for more information on available coatings and colors.

Mounting Angles facilitate the installation and a secure attachment of the wall housing or wall collar into the framed wall opening. Galvanized or aluminum angles are available and are pre-cut to the proper length. Additional bracing, mounting hardware, flashing and caulking are typically provided by the installer.

Factory Wiring can simplify jobsite installation and reduce the overall project cost. Optional services include wiring of motor, disconnect switch, damper actuator, and other custom controls. Please note that some wiring options may not be available in conjunction with the cULus705 and UL705 listing option (for example explosion proof, two speed and special motors).



MODEL LC - CONSTRUCTION LEVEL 1

Application

Model LCE (exhaust) and LCS (supply) are high capacity belt driven propeller fans rated from 3,000 to 40,000 cfm to .625" w.g. static pressure. Their primary application is the exhaust or supply of large volumes of air at relatively low static pressures from commercial, light industrial and agricultural buildings such as manufacturing and assembly plants, warehouses, parking garages, gymnasiums, equipment rooms, distribution centers, poultry and greenhouses.

Wall mounting provides an easy, economical installation. Belt driven fans provide large volumes of air at low fan speeds and low noise levels and afford quick, easy performance adjustments. All necessary accessories are available to meet any need or specification.

When suspended from the ceiling, thus keeping floor spaces open, model LC can be installed to direct large volumes of air downward toward work centers improving employee comfort and productivity.

When mounted in portable housings with OSHA guards, Model LC-P can be used as a mancooler and rolled to hot spots to provide needed employee relief from heat or fumes and help increase productivity.

Construction/Specification Checklist

Belt Drive, Wall Exhaust (or Supply) Propeller Fan shall be provided as follows:

CERTIFICATIONS: Fans shall be AMCA Licensed for air and sound performance. Fans shall be UL and CUL 705 listed for electrical safety and reliability (Optional).

PANEL ASSEMBLY: Panels shall be heavy-gauge G90 galvanized (optional aluminum) with spun one piece venturi. Motor and bearing plate shall be a minimum of 12 gauge galvanized steel except size 20. Panel end support frame assembly shall be of welded, not bolted, construction with prepunched mounting holes for easy installation.

PROPELLER: Blades shall be die formed galvanized G90 steel of minimum 16 gauge. Blades shall be bolted to an epoxy coated hub which is keyed to the fan shaft. Propeller assembly shall be statically balanced.

DRIVES: All sheaves shall be sized to a minimum 150% of driven horsepower, machined cast iron adjustable pitch through 3 horsepower, keyed to both the motor and fan shaft. Fan shaft shall be precision turned, ground and polished steel. Belts shall be nonstatic oil and heat resistant V-belts.

BEARINGS: All bearings shall be self-aligning cast iron pillow block type with relube fitting and of the air handling design. Bearing design shall be for a minimum of L-50 200,000 hour average life.

MOTORS: Permanently sealed ball bearing type furnished to the specified voltage, phase and enclosure. All motors shall be mounted and factory run tested.



Standard 705

Fan Size	Material (Ga. or inches)					Shaft Diameter (in.)	Max Motor Frame Size	Avg. Weight (lbs.)
	Fan Panel	Drive Frame	Motor & Bearing Supports	Propeller				
				Spider Steel	Blade Steel			
20	18	16	16	14	18	3/4	56H	85
24	16	12	12	10	16	1	145T	90
30	16	12	12	10	16	1	145T	100
36	16	12	12	7	16	1	145T	105
42	16	12	12	7	14	1	145T	110
48	16	12	12	7	14	1	145T	125
54	14	12	12	1/4	12	1 3/16	182T	240
60	14	12	12	1/4	12	1 3/16	182T	285

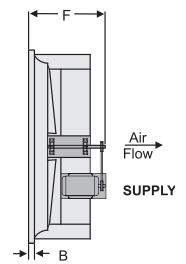
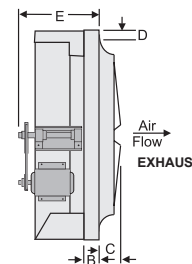
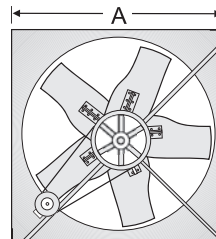
Motor Service Factor

Motor service factors are utilized in some performance selections shown. This is a safe and common industry practice that provides more performance for the investment. BHP is shown at the maximum catalog performance point. BHP at all other static pressures listed is less than that shown, in most cases substantially less. Because the motors are in the air stream there are no negative effects on motor life. 2 speed motor applications are recommended at or below their nominal BHP levels. If desired, pick the next higher horsepower to eliminate this service factor usage. Refer to the Optimizer Fan Selection Program for actual BHP at any performance point.

DIMENSIONS

Fan Size	A Sq	B	C	D	E	F	Damper O.D. Sq Flange
20	24	2	5	1 1/4	15	23	22 1/2
24	30	2	7 1/2	1 1/4	15	23	28 1/2
30	36	2	7 1/2	1 1/4	15	24	34 1/2
36	42	2	7 1/2	1 1/4	15	24	40 1/2
42	48	2	7 1/2	1 1/4	16	24	46 1/2
48	54	2	7 1/2	1 1/4	16	24	52 1/2
54	60	2	7 1/2	1 1/4	20	26	58 1/2
60	66	2	7 1/2	1 1/4	20	26	64 1/2

Dimensions shown in inches.



1 year fan housing warranty, 1 year motor warranty



MODEL L2 - CONSTRUCTION LEVEL 2

Application

Models L2E (exhaust) and L2S (supply) are high capacity wall mounted belt driven propeller fans rated from 5000 to 47,000 CFM and to .75" w.g. static pressure. Their primary application is the exhaust of large volumes of ventilation air from commercial and light industrial buildings such as manufacturing and assembly plants, warehouses, parking garages, gymnasiums, equipment rooms, distribution centers and OEM applications.

Wall mounting provides an easy and economical installation. All necessary accessories are available. Belt driven fans provide large volumes of air at low fan speed and low noise levels and afford quick, easy performance adjustments.

See Model L - Construction level 3 for higher static pressures and heavier construction designs or models LC for your lighter duty ventilation requirements.

Construction/Specification Checklist

Belt Drive, Wall Exhaust (or Supply) Propeller Fan shall be provided as follows:

CERTIFICATIONS: Fans shall be AMCA Licensed for air and sound performance. Fans shall be UL and cUL 705 listed for electrical safety and reliability (Optional).

PANEL ASSEMBLY: Panels shall be heavy-gauge G90 galvanized (optional aluminum) with spun one piece venturi. Motor and bearing plate shall be a minimum of 10 gauge G90 galvanized steel. Panel end support frame assembly shall be of welded, not bolted, construction with pre-punched mounting holes for easy installation.

PROPELLER: Propellers shall be six-bladed, die-formed, minimum 16 gauge, G90 galvanized steel bolted to a welded, structural steel hub plate and keyed to the fan shaft. Blades shall incorporate multiple laminations for 3 horsepower motors and larger. Propeller assembly shall be statically balanced.

DRIVES: All sheaves shall be sized to a minimum 150% of driven horsepower, machined cast iron adjustable pitch (through 3HP), keyed to both the motor and fan shaft. Fan shaft shall be precision turned, ground and polished steel. Belts shall be nonstatic oil and heat resistant V-belts.

BEARINGS: All bearings shall be self-aligning cast iron pillow block type with relube fitting and of the air handling design. Bearing design shall be for a minimum of L-50 200,000 hour average life.

MOTORS: Permanently sealed ball bearing type furnished to the specified voltage, phase and enclosure. All motors shall be mounted and factory run tested.

Fan Size	Material (Ga. or inches th.)							Max Shaft Diameter (in.)	Max Motor Frame Size	Avg. Weight (lbs.)
	Fan Panel	Drive Frame	Motor & Bearing Supports		Propeller					
			Galv	Alum	Spider	Blade				
					Steel	Steel	Alum			
24	18	10	10	1/4	1/4	16	.080	1	182T	180
30	16	10	10	1/4	1/4	16	.080	1	182T	180
36	16	10	10	1/4	1/4	16	.080	1 3/16	184T	215
42	16	10	10	1/4	3/8	16	.080	1 3/16	184T	235
48	16	10	10	1/4	3/8	16	.080	1 3/16	184T	300
54	14	10	10	1/4	3/8	16	.080	1 3/16	184T	400
60	14	10	10	1/4	3/8	16	.080	1 3/16	184T	490



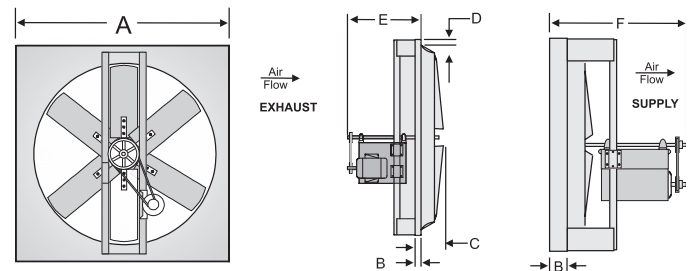
DIMENSIONS

Fan Size	A Sq	B	C	D	E	F	Damper O.D. Sq Flange
24	30	2	7 1/2	1 1/4	22	26	28 1/2
30	36	2	7 1/2	1 1/4	22	26	34 1/2
36	42	2	7 1/2	1 1/4	22	26	40 1/2
42	48	2	7 1/2	1 1/4	22	26	46 1/2
48	54	2	7 1/2	1 1/4	22	26	52 1/2
54	60	2	7 1/2	1 1/4	22	26	58 1/2
60	66	2	7 1/2	1 1/4	24	28	64 1/2

Dimensions shown in inches.

Motor Service Factor

Motor service factors are utilized in some performance selections shown. This is a safe and common industry practice that provides more performance for the investment. BHP is shown at the maximum catalog performance point. BHP at all other static pressures listed is less than that shown, in most cases substantially less. Because the motors are in the air stream there are no negative effects on motor life. Explosion proof and 2 speed motor applications are recommended at or below their nominal BHP levels. If desired, pick the next higher horsepower to eliminate this service factor usage. Refer to the Optisizer Fan Selection Program for actual BHP at any performance point.



1 year fan housing warranty, 1 year motor warranty



MODEL L3 - CONSTRUCTION LEVEL 3

Application

Models L3E (exhaust) and L3S (supply) are high capacity wall mounted belt driven propeller fans rated from 35,000 to 85,000 and to 1.0" w.g. static pressure. Their primary application is the exhaust of large volumes of air at relatively moderate static pressure from commercial, industrial and agricultural buildings such as manufacturing and assembly plants, warehouses, foundries, mills, boiler rooms and equipment rooms.

Wall mounting provides an easy and economical installation. Belt driven fans provide large volumes of air at low fan speed and low noise levels and afford quick, easy performance adjustments. All required accessories are available with Model L.

See Models LC and L - level 2 construction, for lower static pressures and lighter duty requirements which are generally more economical.

Construction/Specification Checklist

Belt Drive, Wall Exhaust (or Supply) Propeller Fan shall be provided as follows:

CERTIFICATIONS: Fans shall be AMCA Licensed for air and sound performance. Fans shall be UL and CUL 705 listed for electrical safety and reliability (optional).

PANEL ASSEMBLY: Panels shall be heavy-gauge G-90 galvanized (optional aluminum) with spun one piece venturi. Motor and bearing plate shall be a minimum of 10 gauge G90 galvanized steel structurally secured to minimum 1.25 inch schedule 40 galvanized steel pipe by means of 12 gauge galvanized steel pipe brackets. Panel end support frame assembly shall be of welded, not bolted, construction with pre-punched mounting holes for easy installation.

PROPELLER: Propellers shall be six-bladed, die-formed, minimum 16 gauge, G90 galvanized steel with double 16 gauge laminations bolted to a welded, structural steel hub plate and keyed to the fan shaft. Fan shaft shall be precision turned, ground and polished steel. Props shall be statically balanced.

DRIVES: All sheaves shall be sized to a minimum 150% of drive horsepower, machined cast iron adjustable pitch through 3 horsepower, keyed to both the motor and fan shaft. Fan shaft shall be precision turned, ground and polished steel. Belts shall be non-static oil and heat resistant V-belts.

BEARINGS: All bearing shall be self-aligning cast iron pillow block type with relube fitting and of the air handling style. Bearing design shall be for a minimum of L-50 200,000 hour average life.

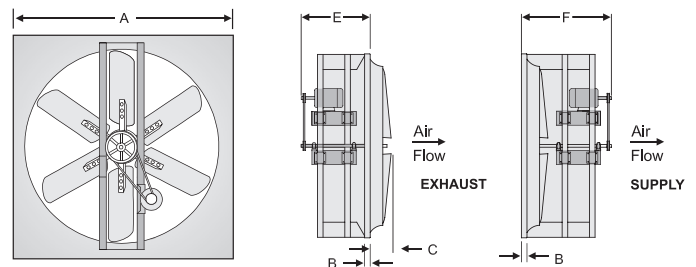
MOTORS: Permanently sealed ball bearing type furnished to the specified voltage, phase and enclosure. All motors shall be mounted and factory run tested.

Fan Size	Material (Ga. or inches th.)						Max Shaft Diameter (in.)	Max Motor Frame Size	Avg. Weight (lbs.)
	Fan Panel	Drive Frame	Motor & Bearing Supports	Propeller					
				Spider	Blade				
				Steel	Alum				
42	16	10	10	3/8	16	0.080	1 7/16	213T	260
48	16	10	10	3/8	16	0.080	1 7/16	215T	330
54	14	10	10	3/8	16	0.080	2 3/16	256T	500
60	14	10	10	3/8	16	0.080	2 3/16	256T	530
72	12	10	10	3/8	16	0.080	2 3/16	256T	600



DIMENSIONS

Fan Size	A Sq	B	C	D	E	F	Damper O.D. Sq Flange
42	48	2	7 1/2	1 1/4	24	28	46 1/2
48	54	2	7 1/2	1 1/4	24	28	52 1/2
54	60	2	7 1/2	1 1/4	24	28	58 1/2
60	66	2	7 1/2	1 1/4	24	28	64 1/2
72	80	2	8	1 1/4	24	28	78 1/2



Dimensions shown in inches.

Motor Service Factor

Motor service factors are utilized in some performance selections shown. This is a safe and common industry practice that provides more performance for the investment. BHP is shown at the maximum catalog performance point. BHP at all other static pressures listed is less than that shown, in most cases substantially less. Because the motors are in the air stream there are no negative effects on motor life. Explosion proof and 2 speed motor applications are recommended at or below their nominal BHP levels. If desired, pick the next higher horsepower to eliminate this service factor usage. Refer to the Optimizer Fan Selection Program for actual BHP at any performance point.

1 year fan housing warranty, 1 year motor warranty



PERFORMANCE

Model LC Size 20

Limits			Panel OD Square	Min. Wall Opening	Damper OD	Approx. Wt
Model	RPM	Motor Frame				
LC	1350	56H	24	25 1/2	22 1/2	85

	Size	Motor HP	Max BHP	Fan RPM	Sones (0.00" SP)	Static Pressure (Inches W.G)								
						.000	.100	.125	.150	.200	.250	.300	.375	.500
Level 1 Construction	Model LC 20	1/4	0.25	905	10.5	3774	3364	3247	3113	-	-	-	-	-
			0.27	920	10.8	3837	3435	3321	3193	2829	-	-	-	-
			0.28	930	11.0	3879	3482	3370	3246	2900	-	-	-	-
			0.29	945	11.3	3941	3553	3442	3324	3002	-	-	-	-
			0.30	955	11.5	3983	3600	3491	3375	3067	-	-	-	-
		1/3	0.33	990	12.2	4129	3762	3658	3550	3283	-	-	-	-
			0.34	1000	12.5	4171	3809	3706	3599	3341	-	-	-	-
			0.36	1015	12.8	4233	3878	3776	3673	3428	-	-	-	-
			0.38	1030	13.1	4296	3947	3847	3746	3512	3173	-	-	-
			0.40	1050	13.5	4379	4038	3941	3842	3621	3312	-	-	-
	1/2	0.47	1110	14.8	4629	4311	4221	4128	3933	3689	-	-	-	
		0.50	1125	15.1	4692	4378	4291	4199	4009	3776	3452	-	-	
		0.55	1145	15.5	4775	4468	4383	4293	4108	3890	3593	2783	-	
		0.57	1160	15.9	4838	4536	4451	4364	4182	3973	3694	2959	-	
		0.60	1180	16.4	4921	4625	4543	4457	4280	4081	3822	3182	-	
	3/4	0.70	1260	18.3	5255	4981	4905	4827	4664	4493	4293	3875	-	
		0.75	1295	19.1	5401	5135	5062	4987	4829	4666	4484	4117	-	
		0.79	1320	19.7	5505	5245	5174	5101	4947	4788	4616	4278	-	
		0.82	1335	20	5568	5311	5241	5169	5018	4861	4693	4371	-	
		0.90	1350	20	5630	5377	5308	5237	5088	4934	4770	4462	3538	

Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses.

Performance certified is for installation type A-free inlet, free outlet.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A-Free inlet fan sone levels.

Due to air stream cooling, the motor loading into the service factor shown does not overheat the motor and is within NEMA recommended limits. BHP at most static pressure points is less than the maximum power shown - in many cases substantially less. Use Optimizer to see the exact BHP for your selection.



S&P, Div. of Soler & Palau Ventilation Group, certifies that the models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



Standard 705



MODELS LCE/LCS, L2E/L2S, L3E/L3S
BELT DRIVE SIDEWALL PROPELLER FANS



Model LC and Model L2

Size 24



S&P, Div. of Soler & Palau Ventilation Group, certifies that the models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

Limits			Panel OD Square	Min. Wall Opening	Damper OD	Approx. Wt.
Model	RPM	Motor Frame				
LC	1100	145T	30	31 1/2	28 1/2	90
L2	1145	145T	30	31 1/2	28 1/2	120



Size	Motor HP	Max BHP	Fan RPM	Sones (0.00" SP)	Static Pressure (Inches W.G)										
					.000	.100	.125	.150	.200	.250	.300	.375	.500	.625	
Level 1 Construction	Model LC 24	1/4	0.25	555	9.0	4931	4168	3905	3574	2256	-	-	-	-	-
			0.27	570	9.4	5065	4332	4085	3787	2460	-	-	-	-	-
			0.30	600	10.2	5331	4652	4431	4180	3501	2269	-	-	-	-
		1/3	0.33	625	10.9	5553	4912	4709	4482	3891	-	-	-	-	-
			0.36	645	11.6	5731	5117	4926	4715	4187	-	-	-	-	-
			0.41	660	12.1	5864	5268	5086	4885	4398	3702	-	-	-	-
		1/2	0.50	715	14.0	6353	5815	5658	5487	5097	4592	-	-	-	-
			0.54	735	14.7	6531	6011	5861	5699	5332	4877	-	-	-	-
			0.58	750	15.3	6664	6157	6012	5856	5504	5081	4535	-	-	-
	3/4	0.60	760	15.7	6753	6254	6112	5959	5617	5212	4686	-	-	-	
		0.75	820	17.9	7286	6831	6704	6570	6276	5941	5577	-	-	-	
		0.80	840	18.6	7464	7021	6898	6770	6489	6170	5804	-	-	-	
	1	0.85	855	19.1	7597	7163	7044	6918	6646	6340	5991	5316	-	-	
		0.90	875	19.8	7775	7352	7237	7116	6855	6562	6234	5600	-	-	
		1.00	905	21	8041	7635	7524	7409	7163	6890	6586	6040	-	-	
	1 1/2	1.10	935	22	8308	7916	7810	7700	7467	7211	6927	6437	-	-	
		1.20	950	22	8441	8057	7953	7845	7618	7369	7094	6625	5559	-	
		1.50	1035	25	9196	8847	8754	8658	8458	8244	8013	7628	6836	-	
Level 2 Construction	Model L2 24	1/4	1.65	1070	27	9507	9170	9081	8989	8798	8595	8378	8019	7308	-
			1.82	1100	28	9774	9447	9361	9272	9088	8894	8687	8347	7688	6808
			0.25	540	9.9	5317	4075	3362	2733	-	-	-	-	-	-
		1/3	0.27	555	10.9	5464	4290	3707	2948	-	-	-	-	-	-
			0.30	575	12.2	5661	4559	4098	3307	-	-	-	-	-	-
			0.33	590	13.2	5809	4753	4346	3647	-	-	-	-	-	-
		1/2	0.36	605	14.3	5957	4943	4574	3995	2908	-	-	-	-	-
			0.40	630	16.3	6203	5255	4926	4491	3247	-	-	-	-	-
			0.50	670	17.9	6597	5740	5446	5116	3951	3168	-	-	-	-
	3/4	0.57	685	18.5	6744	5917	5634	5326	4299	3364	2859	-	-	-	
		0.60	700	19.0	6892	6090	5822	5528	4645	3568	3043	-	-	-	
		0.75	740	21	7286	6543	6310	6042	5396	4220	3549	2883	-	-	
	1	0.80	765	22	7532	6816	6605	6354	5782	4786	3882	3186	-	-	
		0.86	795	23	7827	7138	6951	6724	6205	5455	4325	3555	-	-	
		0.90	815	24	8024	7350	7177	6964	6471	5827	4716	3807	-	-	
	1 1/2	1.00	855	26	8418	7772	7618	7432	6983	6460	5636	4337	-	-	
		1.05	870	27	8566	7930	7779	7604	7170	6677	5958	4551	-	-	
		1.11	890	28	8763	8139	7933	7831	7420	6953	6335	4853	-	-	
2	1.20	910	29	8960	8347	8205	8055	7667	7220	6668	5246	-	-		
	1.50	975	33	9600	9021	8890	8756	8440	8045	7618	6707	4842	-		
	1.66	1015	35	9994	9434	9308	9180	8899	8542	8145	7416	5409	-		
	1.80	1045	38	10289	9742	9620	9496	9236	8905	8526	7880	5900	-		
	2.00	1075	41	10584	10050	9930	9811	9566	9260	8900	8300	6600	-		
	2.20	1115	46	10978	10459	10343	10229	9995	9724	9396	8848	7521	5700		
	2.37	1145	51	11273	10766	10652	10540	10315	10065	9758	9237	8108	6204		

Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses.

Performance certified is for installation type A-free inlet, free outlet.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A-Free inlet fan sone levels.

Due to air stream cooling, the motor loading into the service factor shown does not overheat the motor and is within NEMA recommended limits. BHP at most static pressure points is less than the maximum power shown - in many cases substantially less. Use Optimizer to see the exact BHP for your selection.



MODELS LCE/LCS, L2E/L2S, L3E/L3S
BELT DRIVE SIDEWALL PROPELLER FANS



Model LC and Model L2

Size 30



S&P, Div. of Soler & Palau Ventilation Group, certifies that the models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



Standard 705



Standard 705

Model	Limits		Panel OD Square	Min. Wall Opening	Damper OD	Approx. Wt
	RPM	Motor Frame				
LC	815	145T	36	37 1/2	34 1/2	100
L2	1070	182T	36	37 1/2	34 1/2	180

Size	Motor HP	Max BHP	Fan RPM	Sones (0.00" SP)	Static Pressure (Inches W.G)								
					.000	.100	.125	.150	.200	.250	.300	.375	.500
Level 1 Construction Model LC 30	1/4	0.25	425	8.3	6956	5509	4962	4215	-	-	-	-	-
		0.27	435	8.6	7119	5735	5212	4608	-	-	-	-	-
		0.30	450	9.0	7365	6062	5572	5034	-	-	-	-	-
	1/3	0.33	465	9.5	7610	6370	5922	5422	-	-	-	-	-
		0.36	480	9.9	7856	6665	6270	5794	-	-	-	-	-
		0.40	495	10.5	8101	6954	6603	6152	5073	-	-	-	-
	1/2	0.50	535	12.0	8756	7709	7419	7074	6211	-	-	-	-
		0.55	550	12.7	9001	7988	7709	7400	6586	5511	-	-	-
		0.59	565	13.3	9247	8271	7995	7712	6949	6052	-	-	-
	3/4	0.75	610	15.3	9983	9117	8839	8589	7995	7242	6351	-	-
		0.82	630	16.2	10311	9487	9216	8968	8436	7728	6945	-	-
		0.90	650	17.1	10638	9853	9594	9343	8857	8198	7473	-	-
	1	1.00	670	18.0	10965	10216	9969	9716	9253	8665	7978	6549	-
		1.11	695	19.3	11375	10665	10434	10188	9738	9228	8581	7501	-
		1.20	715	20	11702	11021	10802	10565	10120	9659	9098	8052	-
	1 1/2	1.50	770	23	12602	11990	11798	11589	11151	10752	10298	9427	-
		1.63	790	23	12929	12339	12156	11956	11526	11135	10723	9899	8281
		1.78	815	24	13339	12773	12599	12411	12000	11609	11223	10482	9013
Level 2 Construction Model L2 30	1/3	0.33	480	9.7	7675	6417	5879	5284	-	-	-	-	-
		0.36	495	10.3	7915	6706	6243	5678	-	-	-	-	-
		0.40	505	10.7	8075	6895	6481	5932	4378	-	-	-	-
	1/2	0.50	550	12.6	8794	7720	7432	7025	5986	-	-	-	-
		0.56	570	13.6	9114	8078	7809	7479	6516	-	-	-	-
		0.60	585	14.4	9354	8345	8087	7799	6896	-	-	-	-
	3/4	0.75	630	17.6	10073	9146	8902	8659	7991	7096	-	-	-
		0.83	650	18.4	10393	9499	9258	9026	8455	7609	6642	-	-
		0.90	670	19.2	10713	9850	9614	9390	8890	8101	7200	-	-
	1	1.00	685	19.9	10953	10112	9882	9659	9194	8460	7638	5700	-
		1.10	710	21	11352	10546	10325	10106	9672	9068	8284	6802	-
		1.20	735	22	11752	10978	10766	10550	10137	9637	8900	7679	-
	1 1/2	1.50	795	25	12711	12004	11812	11615	11226	10836	10331	9292	-
		1.65	820	26	13111	12428	12243	12054	11672	11302	10876	9908	-
		1.80	845	27	13511	12851	12673	12490	12116	11760	11378	10510	-
	2	2.00	875	29	13991	13356	13185	13010	12651	12303	11948	11233	9600
		2.22	905	31	14470	13859	13696	13528	13183	12840	12504	11907	10399
		2.40	930	32	14870	14278	14119	13957	13623	13284	12961	12435	11029
3	3.00	1005	37	16069	15525	15381	15234	14930	14618	14308	13855	12846	
	3.30	1040	41	16629	16105	15967	15825	15534	15235	14930	14495	13600	
	3.60	1070	44	17109	16601	16467	16330	16049	15761	15465	15038	14279	

Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses.

Performance certified is for installation type A-free inlet, free outlet.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A-Free inlet fan sone levels.

Due to air stream cooling, the motor loading into the service factor shown does not overheat the motor and is within NEMA recommended limits. BHP at most static pressure points is less than the maximum power shown - in many cases substantially less. Use Optimizer to see the exact BHP for your selection.



Model LC and Model L2

Size 36



S&P, Div. of Soler & Palau Ventilation Group, certifies that the models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

Limits			Panel OD Square	Min. Wall Opening	Damper OD	Approx. Wt
Model	RPM	Motor Frame				
LC	695	145T	42	43 1/2	40 1/2	105
L2	845	184T	42	43 1/2	40 1/2	215



Size	Motor HP	Max BHP	Fan RPM	Sones (0.00" SP)	Static Pressure (Inches W.G)										
					.000	.100	.125	.150	.200	.250	.300	.375	.500	.625	.750
Level 1 Construction Model LC 36	1/3	0.33	360	8.5	9927	7580	6735	5537	-	-	-	-	-	-	-
		0.35	370	8.9	10203	7973	7153	6222	-	-	-	-	-	-	-
		0.41	390	9.7	10755	8745	7976	7190	-	-	-	-	-	-	-
	1/2	0.50	415	10.8	11444	9631	8967	8237	6333	-	-	-	-	-	-
		0.55	430	11.5	11858	10126	9550	8849	7340	-	-	-	-	-	-
		0.59	440	11.9	12133	10449	9923	9248	7840	-	-	-	-	-	-
	3/4	0.75	475	13.7	13098	11556	11133	10611	9337	7872	-	-	-	-	-
		0.82	490	14.5	13512	12022	11620	11162	9954	8675	-	-	-	-	-
		0.90	505	15.3	13926	12485	12100	11686	10557	9348	7384	-	-	-	-
	1	1.00	525	16.4	14477	13103	12731	12348	11345	10187	8897	-	-	-	-
		1.09	540	17.3	14891	13562	13199	12834	11930	10809	9653	-	-	-	-
		1.19	555	18.1	15305	14018	13663	13312	12495	11419	10317	-	-	-	-
	1 1/2	1.50	600	20	16545	15373	15048	14720	14055	13195	12186	10619	-	-	-
		1.58	610	21	16821	15671	15353	15029	14381	13577	12590	11076	-	-	-
		1.79	635	22	17511	16413	16111	15801	15186	14497	13578	12146	-	-	-
	2	2.00	655	23	18062	17003	16713	16415	15819	15189	14366	12975	9909	-	-
		2.22	680	24	18751	17737	17461	17177	16600	16014	15313	13996	11612	-	-
		2.37	695	25	19165	18176	17907	17631	17065	16499	15859	14594	12363	-	-
	Level 2 Construction Model L2 36	1/2	0.49	410	11.5	10401	9012	8530	7939	6101	3751	2429	-	-	-
			0.52	420	11.9	10655	9315	8862	8318	6704	4304	2801	-	-	-
0.56			430	12.4	10908	9615	9187	8682	7248	4924	3207	-	-	-	
3/4		0.74	470	14.5	11923	10781	10428	10030	9033	7519	5326	3148	-	-	
		0.83	490	15.6	12430	11349	11024	10663	9790	8565	6673	3997	-	-	
		0.88	500	16.1	12684	11631	11317	10971	10148	9030	7335	4483	-	-	
1		1.02	520	17.3	13191	12189	11896	11578	10836	9880	8524	5609	2815	-	
		1.12	540	18.5	13699	12742	12467	12171	11495	10656	9537	6926	3530	-	
		1.17	550	19.1	13952	13017	12750	12464	11815	11024	9994	7606	3926	-	
1.5		1.48	590	22	14967	14106	13867	13613	13054	12403	11615	9987	5858	3443	
		1.60	610	23	15474	14646	14418	14178	13654	13053	12345	10952	7086	4191	
		1.83	630	24	15982	15183	14966	14738	14243	13685	13040	11820	8438	5041	
2		1.97	650	25	16489	15718	15510	15292	14824	14302	13708	12619	9756	6021	
		2.12	670	27	16997	16251	16051	15843	15399	14907	14356	13370	10932	7161	
		2.30	690	28	17504	16782	16590	16391	15967	15502	14987	14084	11969	8455	
3		2.84	740	31	18772	18102	17927	17746	17366	16956	16511	15758	14158	11709	
		3.14	765	33	19407	18759	18592	18419	18057	17669	17251	16554	15119	13062	
		3.53	795	35	20168	19546	19386	19222	18879	18514	18125	17483	16202	14476	
5		4.86	890	43	22578	22023	21883	21741	21447	21139	20816	20298	19323	18155	
		5.33	920	46	23339	22801	22667	22531	22249	21955	21648	21158	20249	19182	
	5.66	940	48	23846	23320	23189	23056	22782	22497	22199	21727	20856	19845		

Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses.

Performance certified for installation type A-free inlet, free outlet.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A-Free inlet fan sone levels.

Due to air stream cooling, the motor loading into the service factor shown does not overheat the motor and is within NEMA recommended limits. BHP at most static pressure points is less than the maximum power shown - in many cases substantially less. Use Optimizer to see the exact BHP for your selection.



MODELS LCE/LCS, L2E/L2S, L3E/L3S
BELT DRIVE SIDEWALL PROPELLER FANS



Model LC, Model L2 and Model L3

Size 42

Model	Limits		Panel OD Square	Min. Wall Opening	Damper OD	Approx. Wt
	RPM	Motor Frame				
LC	550	145T	48	49 1/2	46 1/2	110
L2	745	184T	48	49 1/2	46 1/2	235
L3	850	213T	48	49 1/2	46 1/2	260



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Size	Motor HP	Max BHP	Fan RPM	Sones (0.10" SP)	Static Pressure (Inches W.G)											
					.000	.100	.125	.150	.200	.250	.300	.375	.500	.625	.750	
Level 1 Construction Model LC 42	1/3	0.33	285	8.3	12309	8342	6281	-	-	-	-	-	-	-	-	-
		0.37	295	8.3	12741	8967	7579	-	-	-	-	-	-	-	-	-
		0.41	305	8.4	13173	9658	8439	5438	-	-	-	-	-	-	-	-
	1/2	0.50	325	8.8	14037	10969	9725	8483	-	-	-	-	-	-	-	-
		0.54	335	9.3	14469	11549	10380	9305	-	-	-	-	-	-	-	-
		0.60	345	9.8	14901	12109	11073	9960	-	-	-	-	-	-	-	-
	3/4	0.75	375	11.4	16197	13705	12938	11928	9768	-	-	-	-	-	-	-
		0.83	385	12.0	16629	14218	13498	12606	10619	-	-	-	-	-	-	-
		0.90	395	12.6	17060	14724	14044	13252	11285	7292	-	-	-	-	-	-
	1	1.00	410	13.4	17708	15474	14842	14128	12233	9895	-	-	-	-	-	-
		1.11	425	14.3	18356	16214	15618	14966	13217	11433	6467	-	-	-	-	-
		1.20	435	14.9	18788	16703	16128	15508	13911	12182	8485	-	-	-	-	-
	1 1/2	1.50	470	16.9	20300	18400	17874	17336	16118	14419	12885	-	-	-	-	-
		1.65	485	17.9	20948	19119	18609	18095	16964	15460	13900	9198	-	-	-	-
		1.81	500	18.8	21596	19833	19339	18845	17784	16470	14848	11827	-	-	-	-
	2	2.00	515	19.8	22243	20543	20067	19587	18583	17410	15805	13517	-	-	-	-
		2.22	535	21	23107	21482	21029	20566	19623	18561	17190	15068	-	-	-	-
		2.40	550	22	23755	22182	21746	21295	20388	19393	18190	16034	-	-	-	-
	Level 2 Construction Model L2 42	1/3	0.33	285	7.8	10509	7477	5671	3612	-	-	-	-	-	-	-
			0.36	290	8.0	10694	7789	6342	4014	-	-	-	-	-	-	-
0.40			300	8.1	11062	8381	7206	4906	-	-	-	-	-	-	-	
1/2		0.50	325	8.9	11984	9671	8755	7643	-	-	-	-	-	-	-	
		0.55	335	9.4	12353	10149	9347	8304	-	-	-	-	-	-	-	
		0.60	345	10.0	12722	10621	9901	8910	-	-	-	-	-	-	-	
3/4		0.75	370	11.5	13644	11823	11131	10411	8367	-	-	-	-	-	-	
		0.84	385	12.4	14197	12521	11841	11206	9474	6112	-	-	-	-	-	
		0.90	395	13.0	14566	12972	12316	11697	10087	7124	-	-	-	-	-	
1		1.00	405	13.7	14934	13406	12803	12178	10697	8279	-	-	-	-	-	
		1.10	420	14.6	15487	14041	13516	12889	11606	9898	6533	-	-	-	-	
		1.20	435	15.7	16041	14664	14206	13604	12449	10877	8053	-	-	-	-	
1 1/2		1.50	470	18.0	17331	16089	15716	15265	14174	13001	11506	7343	-	-	-	
		1.66	485	19.0	17884	16689	16339	15942	14884	13846	12428	8858	-	-	-	
		1.81	495	19.6	18253	17088	16750	16375	15354	14366	13037	9983	-	-	-	
2		2.00	515	21	18990	17880	17564	17222	16325	15345	14250	12166	-	-	-	
		2.24	535	22	19728	18666	18369	18052	17271	16299	15368	13458	-	-	-	
		2.42	550	23	20281	19253	18969	18666	17959	17006	16121	14360	9183	-	-	
3		3.00	590	26	21756	20806	20549	20280	19690	18928	18041	16738	13692	8037	-	
		3.33	610	27	22494	21578	21333	21077	20524	19855	18985	17781	15060	9786	6188	
	3.60	625	28	23047	22156	21918	21671	21141	20531	19717	18517	15977	11312	7195		
	5.00	700	34	25812	25024	24818	24606	24164	23687	23156	22103	20314	17936	14112		
	5.52	720	36	26550	25785	25586	25382	24957	24503	24005	23060	21299	19163	16540		
	6.07	745	38	27472	26734	26542	26347	25942	25513	25049	24222	22500	20666	18311		
Level 3 Model L3 42	7 1/2	7.50	800	43	29500	28816	28639	28460	28091	27705	27298	26628	25120	23570	21683	
		8.17	825	46	30422	29759	29589	29416	29061	28692	28305	27676	26325	24778	23147	
		8.93	850	48	31344	30701	30537	30369	30027	29673	29304	28710	27497	25965	24512	

Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses.

Performance certified is for installation type A-free inlet, free outlet.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A-Free inlet fan sone levels.

Due to air stream cooling, the motor loading into the service factor shown does not overheat the motor and is within NEMA recommended limits. BHP at most static pressure points is less than the maximum power shown - in many cases substantially less. Use Optimizer to see the exact BHP for your selection.



MODELS LCE/LCS, L2E/L2S, L3E/L3S
BELT DRIVE SIDEWALL PROPELLER FANS



Model LC, Model L2 and Model L3

Size 48



S&P, Div. of Soler & Palau Ventilation Group, certifies that the models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

Model	Limits		Panel OD Square	Min. Wall Opening	Damper OD	Approx. Wt
	RPM	Motor Frame				
LC	455	145T	54	55 1/2	52 1/2	125
L2	605	184T	54	55 1/2	52 1/2	300
L3	765	215T	54	55 1/2	52 1/2	330



Construction	Size	Motor HP	Max BHP	Fan RPM	Sones (0.10" SP)	Static Pressure (Inches W.G)														
						.000	.100	.125	.150	.200	.250	.300	.375	.500	.625	.750				
Level 1 Construction	Model LC 48	1/2	0.50	270	9.5	16739	11961	9933	-	-	-	-	-	-	-	-	-	-		
			0.56	280	9.7	17359	12936	11133	6659	-	-	-	-	-	-	-	-	-	-	
			0.62	290	10.0	17979	13841	12199	10077	-	-	-	-	-	-	-	-	-	-	
		3/4	0.69	300	10.4	18599	14684	13193	11413	-	-	-	-	-	-	-	-	-	-	
			0.75	310	10.9	19219	15459	14171	12556	-	-	-	-	-	-	-	-	-	-	
			0.83	320	11.6	19839	16210	15101	13600	-	-	-	-	-	-	-	-	-	-	
		1	0.91	330	12.1	20459	16949	15969	14584	10759	-	-	-	-	-	-	-	-	-	
			1.00	340	12.7	21079	17678	16778	15563	12363	-	-	-	-	-	-	-	-	-	
			1.09	350	13.4	21699	18411	17542	16493	13606	-	-	-	-	-	-	-	-	-	
	1 1/2	1.14	355	13.7	22009	18777	17917	16936	14174	-	-	-	-	-	-	-	-	-		
		1.23	365	14.3	22629	19504	18659	17784	15243	10868	-	-	-	-	-	-	-	-		
		1.50	390	15.9	24179	21296	20488	19711	17720	15058	-	-	-	-	-	-	-	-		
	2	1.63	400	16.7	24799	22004	21219	20452	18668	16187	11973	-	-	-	-	-	-	-		
		1.82	415	17.8	25729	23054	22306	21548	19994	17746	14950	-	-	-	-	-	-	-		
		2.00	430	18.9	26659	24093	23381	22647	21217	19215	16819	-	-	-	-	-	-	-		
	Level 2 Construction	Model L2 48	1/2	0.51	265	8.9	14897	11015	9603	7178	-	-	-	-	-	-	-	-	-	
				0.55	270	9.1	15178	11448	10050	8090	-	-	-	-	-	-	-	-	-	-
				0.60	280	9.3	15740	12285	10907	9442	-	-	-	-	-	-	-	-	-	-
3/4			0.69	295	10.1	16584	13462	12204	10941	-	-	-	-	-	-	-	-	-	-	
			0.75	300	10.4	16865	13840	12639	11376	7002	-	-	-	-	-	-	-	-	-	
			0.82	310	11.2	17427	14578	13485	12223	9041	-	-	-	-	-	-	-	-	-	
1			0.90	320	11.9	17989	15300	14290	13092	10504	-	-	-	-	-	-	-	-	-	
			0.93	325	12.2	18270	15656	14681	13530	11096	-	-	-	-	-	-	-	-	-	
			1.00	335	13.0	18832	16352	15443	14388	12128	7739	-	-	-	-	-	-	-	-	
1 1/2		1.13	345	13.8	19394	17033	16183	15213	13014	9825	-	-	-	-	-	-	-	-		
		1.23	355	14.6	19957	17701	16908	16003	13866	11386	-	-	-	-	-	-	-	-		
		1.50	380	16.4	21362	19320	18656	17879	16032	14051	11129	-	-	-	-	-	-	-		
2		1.68	395	17.5	22205	20262	19664	18958	17294	15342	13239	-	-	-	-	-	-	-		
		1.80	405	18.2	22767	20884	20322	19661	18094	16184	14339	-	-	-	-	-	-	-		
		2.00	420	19.4	23611	21808	21293	20689	19252	17504	15719	-	-	-	-	-	-	-		
3		2.20	430	20	24173	22419	21926	21361	20000	18365	16577	13276	-	-	-	-	-	-		
		2.40	445	21	25016	23331	22864	22350	21095	19608	17847	15192	-	-	-	-	-	-		
		3.00	480	24	26983	25436	25020	24580	23553	22305	20871	18470	12309	-	-	-	-	-		
5	3.36	495	25	27827	26331	25932	25514	24564	23402	22080	19734	15092	-	-	-	-	-			
	3.62	510	27	28670	27222	26838	26439	25556	24479	23245	21054	17098	-	-	-	-	-			
	5.00	565	31	31762	30464	30127	29781	29053	28231	27262	25589	22235	18481	-	-	-	-			
Level 3 Construction	Model L3 48	7 1/2	5.44	585	33	32886	31635	31311	30980	30290	29535	28650	27105	23969	20741	-	-	-		
			6.13	605	35	34010	32802	32491	32174	31516	30811	30001	28571	25707	22582	14450	-	-	-	
			7.50	650	40	36540	35419	35132	34841	34243	33616	32945	31753	29362	26441	23603	-	-	-	
		10	8.11	670	42	37664	36578	36300	36020	35444	34844	34209	33113	30886	28190	25367	-	-	-	
			9.05	695	45	39070	38023	37757	37487	36937	36367	35770	34774	32730	30306	27485	-	-	-	
			10.00	720	48	40475	39466	39210	38951	38423	37880	37314	36401	34530	32304	29666	-	-	-	
		12	10.88	740	50	41600	40618	40369	40118	39607	39083	38540	37674	35937	33846	31401	-	-	-	
			12.00	765	52	43005	42056	41816	41574	41083	40580	40061	39243	37651	35714	33496	-	-	-	

Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses.

Performance certified is for installation type A-free inlet, free outlet.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A-Free inlet fan sone levels.

Due to air stream cooling, the motor loading into the service factor shown does not overheat the motor and is within NEMA recommended limits. BHP at most static pressure points is less than the maximum power shown - in many cases substantially less. Use Optimizer to see the exact BHP for your selection.



MODELS LCE/LCS, L2E/L2S, L3E/L3S
BELT DRIVE SIDEWALL PROPELLER FANS



Model LC, Model L2 and Model L3

Size 54



S&P, Div. of Soler & Palau Ventilation Group, certifies that the models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

Model	Limits		Panel OD Square	Min. Wall Opening	Damper OD	Approx. Wt
	RPM	Motor Frame				
LC	425	182T	60	61 1/2	58 1/2	240
L2	515	184T	60	61 1/2	58 1/2	400
L3	740	256T	60	61 1/2	58 1/2	500



Construction	Size	Motor HP	Max BHP	Fan RPM	Sones (0.15" SP)	Static Pressure (Inches W.G)									
						.000	.125	.150	.200	.250	.300	.375	.500	.625	.750
Level 1 Construction	Model LC 54	3/4	0.75	250	9.8	21652	14977	10311	-	-	-	-	-	-	-
			0.82	260	10.4	22518	16507	13479	-	-	-	-	-	-	-
			0.92	270	11.0	23384	17932	15352	10232	-	-	-	-	-	-
		1	1.00	275	11.4	23817	18559	16095	11620	-	-	-	-	-	-
			1.09	285	12.3	24683	19720	17561	14816	-	-	-	-	-	-
			1.20	295	13.1	25550	20825	19097	16699	-	-	-	-	-	-
		1 1/2	1.50	315	14.8	27282	22932	21633	19683	12699	-	-	-	-	-
			1.61	325	15.5	28148	23950	22757	21183	15785	-	-	-	-	-
			1.84	340	16.8	29447	25449	24372	23109	19183	-	-	-	-	-
		2	2.00	350	17.7	30313	26434	25414	24259	20671	13599	-	-	-	-
			2.19	360	18.5	31179	27408	26437	25365	22133	16456	-	-	-	-
			2.38	370	19.4	32045	28375	27445	26439	23692	19651	-	-	-	-
		3	3.00	400	22	34643	31236	30401	29530	27543	24351	20039	-	-	-
			3.35	415	23	35943	32648	31852	31029	29213	26686	23274	-	-	-
			3.60	425	24	36809	33585	32812	32015	30290	28100	24785	15677	-	-
Level 2 Construction	Model L2 54	1	1.00	280	12.9	22680	17068	15430	10747	-	-	-	-	-	
			1.08	290	12.8	23490	18289	16585	13352	-	-	-	-	-	
			1.20	300	13.3	24300	19435	17847	14940	-	-	-	-	-	
		1 1/2	1.50	325	14.7	26325	22071	20881	18012	15063	-	-	-	-	
			1.66	335	15.3	27135	23051	21991	19167	16645	-	-	-	-	
			1.82	345	15.9	27945	24009	23055	20429	17977	13943	-	-	-	
		2	2.00	355	16.5	28755	24951	24076	21693	19167	16320	-	-	-	
			2.14	370	17.4	29970	26337	25543	23506	20904	18665	-	-	-	
			2.42	380	18.1	30780	27250	26496	24642	22110	19943	12875	-	-	
		3	3.00	405	19.8	32805	29495	28822	27307	25251	22863	19592	-	-	
			3.26	420	21	34020	30816	30188	28793	27006	24696	21705	-	-	
			3.63	435	22	35235	32123	31538	30237	28662	26595	23500	-	-	
		5	5.00	485	27	39285	36430	35924	34861	33677	32300	29567	25066	-	
			5.35	495	28	40095	37284	36789	35763	34624	33339	30803	26276	19008	
			6.04	515	29	41715	38988	38510	37550	36487	35323	33144	28610	24012	
Level 3 Construction	Model L3 54	7 1/2	6.94	540	31	43740	41110	40651	39742	38772	37717	35876	31600	27746	19763
			7.50	555	33	44955	42378	41930	41046	40126	39121	37436	33508	29564	24604
			8.60	580	35	46980	44488	44055	43206	42356	41424	39902	36579	32473	28797
		10	10.00	610	38	49410	47011	46594	45782	44978	44138	42758	39973	36128	32626
			11.06	630	40	51030	48690	48283	47491	46713	45923	44619	42105	38653	34954
			12.15	650	42	52650	50364	49967	49195	48439	47682	46454	44142	41077	37264
		15	15.00	700	48	56700	54541	54164	53434	52725	52024	50955	48962	46617	43558
			16.45	720	51	58320	56207	55837	55123	54430	53747	52721	50830	48684	45923
			17.85	740	53	59940	57872	57509	56809	56130	55464	54469	52675	50659	48179

Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses.

Performance certified is for installation type A-free inlet, free outlet.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A-Free inlet fan sone levels.

Due to air stream cooling, the motor loading into the service factor shown does not overheat the motor and is within NEMA recommended limits. BHP at most static pressure points is less than the maximum power shown - in many cases substantially less. Use Optimizer to see the exact BHP for your selection.



MODELS LCE/LCS, L2E/L2S, L3E/L3S
BELT DRIVE SIDEWALL PROPELLER FANS



Model LC, Model L2 and Model L3

Size 60



S&P, Div. of Soler & Palau Ventilation Group, certifies that the models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

Model	Limits		Panel OD Square	Min. Wall Opening	Damper OD	Approx. Wt
	RPM	Motor Frame				
LC	380	182T	66	67 1/2	64 1/2	285
L2	460	184T	66	67 1/2	64 1/2	490
L3	700	256T	66	67 1/2	64 1/2	530



Construction	Size	Motor HP	Max BHP	Fan RPM	Sones (0.00" SP)	Static Pressure (Inches W.G)									
						.000	.125	.150	.200	.250	.375	.500	.625	.750	1.000
Level 1 Construction	Model LC 60	1	1.00	250	10.3	26878	20089	16672	-	-	-	-	-	-	-
			1.08	255	10.7	27416	20835	18009	-	-	-	-	-	-	-
			1.21	265	11.5	28491	22275	20109	-	-	-	-	-	-	-
		1 1/2	1.50	285	13.0	30641	25041	23280	20999	-	-	-	-	-	-
			1.69	295	13.9	31717	26369	24721	22844	-	-	-	-	-	-
			1.75	300	14.3	32254	27023	25433	23649	-	-	-	-	-	-
	2	2.00	310	15.1	33329	28317	26824	25176	18811	-	-	-	-	-	
		2.23	325	16.3	34942	30222	28846	27344	23361	-	-	-	-	-	
		2.44	335	17.1	36017	31464	30159	28751	25399	-	-	-	-	-	
	3	3.03	360	19.1	38705	34490	33367	32125	29373	25314	-	-	-	-	
		3.29	370	20	39780	35672	34618	33430	30822	27531	-	-	-	-	
		3.56	380	21	40855	36826	35849	34723	32244	29351	-	-	-	-	
Level 2 Construction	Model L2 60	1	1.00	250	9.9	25631	17744	15842	-	-	-	-	-	-	
			1.08	260	10.6	26656	19351	17368	-	-	-	-	-	-	
			1.21	270	11.3	27681	20986	18860	15136	-	-	-	-	-	
		1 1/2	1.50	290	12.7	29732	23756	22062	18500	-	-	-	-	-	
			1.67	300	13.4	30757	25033	23639	20021	16501	-	-	-	-	
			1.83	310	14.2	31782	26280	25017	21513	18376	-	-	-	-	
	2	2.00	320	15.0	32808	27513	26324	23013	20017	-	-	-	-		
		2.11	325	15.4	33320	28131	26963	23823	20803	-	-	-	-		
		2.22	330	15.8	33833	28744	27594	24667	21569	-	-	-	-		
	3	3.00	365	19.0	37421	32929	31915	29813	26912	19530	-	-	-		
		3.38	380	20	38959	34674	33724	31731	29390	22561	-	-	-		
		3.64	390	21	39984	35821	34914	32979	30912	24209	-	-	-		
5	5.00	435	25	44598	40862	40121	38488	36744	31031	25399	-	-			
	5.60	450	26	46136	42519	41809	40275	38594	33461	27901	-	-			
	5.98	460	27	47161	43618	42926	41454	39830	35125	29479	-	-			
Level 3 Construction	Model L3 60	7 1/2	7.03	485	29	49724	46353	45700	44359	42869	38864	33248	28162	-	
			7.50	495	30	50749	47441	46803	45502	44065	40196	34740	29870	-	
			7.91	505	31	51774	48527	47902	46633	45252	41497	36241	31497	-	
			9.09	530	34	54338	51231	50636	49437	48180	44658	40368	35343	30623	
		10	10.00	545	35	55875	52847	52268	51107	49912	46512	42747	37583	33176	-
	10.78		560	37	57413	54459	53895	52767	51617	48365	44872	39824	35577	-	
	11.98		580	39	59464	56603	56058	54969	53868	50812	47513	43039	38629	-	
	15.00		625	44	64077	61406	60896	59886	58874	56189	53177	50021	45397	37596	
	16.48		645	47	66128	63532	63037	62056	61078	58529	55646	52673	48763	40825	
	17.98	665	49	68178	65654	65173	64219	63271	60843	58098	55240	51973	43894		

Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses.

Performance certified for installation type A-free inlet, free outlet.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A-Free inlet fan sone levels.

Due to air stream cooling, the motor loading into the service factor shown does not overheat the motor and is within NEMA recommended limits. BHP at most static pressure points is less than the maximum power shown - in many cases substantially less. Use Optimizer to see the exact BHP for your selection.



MODELS LCE/LCS, L2E/L2S, L3E/L3S
BELT DRIVE SIDEWALL PROPELLER FANS



Model L3
Size 72



S&P, Div. of Soler & Palau Ventilation Group, certifies that the models shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



Limits			Panel OD Square	Min. Wall Opening	Damper OD	Approx. Wt
Model	RPM	Motor Frame				
L3	545	256T	80	81 1/2	78 1/2	600

Size	Motor HP	Max BHP	Fan RPM	Sones (0.00" SP)	Static Pressure (Inches W.G)													
					.000	.125	.200	.250	.300	.375	.500	.625	.750	1.000				
Level 3 Construction Model L3 72	1 1/2	1.29	225	22	35129	20805	-	-	-	-	-	-	-	-	-	-	-	
		1.50	235	23	36690	23490	11736	-	-	-	-	-	-	-	-	-	-	
		1.77	250	25	39032	28557	16766	-	-	-	-	-	-	-	-	-	-	
	2	2.00	260	27	40593	30797	19872	12185	-	-	-	-	-	-	-	-	-	-
		2.23	270	28	42154	33105	22720	15591	-	-	-	-	-	-	-	-	-	-
		2.36	275	29	42935	34370	23988	17268	-	-	-	-	-	-	-	-	-	
	3	3.00	295	34	46058	38778	28928	23480	16818	-	-	-	-	-	-	-	-	-
		3.22	305	36	47619	40624	32722	26224	20149	-	-	-	-	-	-	-	-	-
		3.54	315	39	49180	42421	35839	28644	23303	-	-	-	-	-	-	-	-	-
	5	4.26	335	44	52303	45927	40304	34243	28943	20547	-	-	-	-	-	-	-	-
		5.00	350	48	54645	48505	44011	39490	32581	25385	-	-	-	-	-	-	-	-
		5.98	375	56	58548	52752	49397	45162	40602	32470	19719	-	-	-	-	-	-	-
	7	6.44	385	60	60109	54439	52140	47621	43710	34888	23115	-	-	-	-	-	-	-
		7.50	405	64	63232	57793	54820	52395	48197	39949	29577	17215	-	-	-	-	-	-
		8.71	425	67	66354	61123	58310	56291	52989	47294	35402	24005	-	-	-	-	-	-
	10	10.00	445	69	69477	64435	61744	59908	57687	52162	40392	30620	19305	-	-	-	-	-
		11.04	460	71	71819	66908	64294	62555	60633	55471	44092	35242	24397	-	-	-	-	-
		12.15	475	74	74160	69373	66838	65165	63387	59202	48920	39535	29471	-	-	-	-	-
15	15.00	510	79	79625	75100	72720	71154	69590	66984	59376	48219	40396	-	-	-	-	-	
	16.41	525	81	81967	77547	75223	73700	72190	69767	62695	52353	44585	26079	-	-	-	-	
	18.36	545	85	85089	80799	78545	77078	75619	73370	67480	59891	49467	32867	-	-	-	-	

Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses.

Performance certified is for installation type A-free inlet, free outlet.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type A-Free inlet fan sone levels.

Due to air stream cooling, the motor loading into the service factor shown does not overheat the motor and is within NEMA recommended limits. BHP at most static pressure points is less than the maximum power shown - in many cases substantially less. Use Optimizer to see the exact BHP for your selection.



MODELS GED/GSD, DFE/DFS, DDE/DDS


DIRECT DRIVE SIDEWALL PROPELLER FANS

LINE OVERVIEW

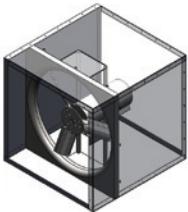
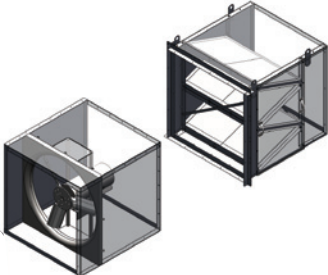
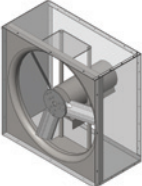
S&P's Direct Drive Sidewall Propeller Fan line is designed to exhaust or supply large volumes of air at relatively low static pressures. With 3 types of construction, the direct drive models are designed for use in a variety of applications for commercial, industrial and agricultural buildings such as manufacturing and assembly plants, warehouses, parking garages, gymnasiums, equipment rooms, distribution centers, foundries, boiler rooms, greenhouses and OEM applications. The direct drive models provide general ventilation for a wide variety of buildings and enclosed areas within buildings. Examples include factories, assembly plants, warehouses, gymnasiums, garages, jails, machine rooms and many others.

These Sidewall Propeller Fans are rated from 300 to 55,000 CFM with static pressures to 1" w.g. Models range from 10 to 60". A full line of accessories is available to meet any need or specification. See the below Model Comparison to find the right Direct Drive Sidewall Propeller Fan for your application.

MODEL COMPARISON

Construction Type	Model	Size Range	Performance	Model Overview On Page
	GED GSD	10 to 20"	300 to 3,500 CFM up to 3/4" w.g.	47-48
	DFE DFS	10 to 30"	500 to 12,000 CFM up to 1" w.g.	49-50
	DDE DDS	24 to 60"	3,500 to 55,000 CFM up to 1" w.g..	51-53

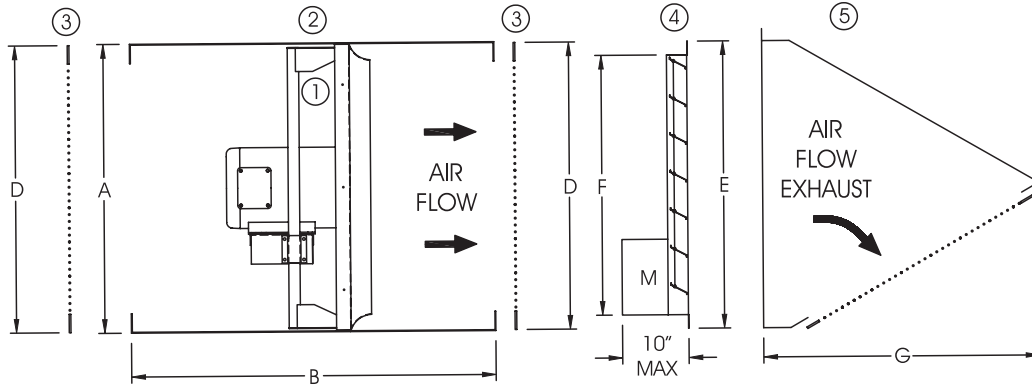
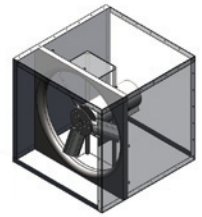
MOUNTING ARRANGEMENT OPTIONS

Page	Mounting Arrangement	Description
36-37	Wall Housing 	Heavy-gauge, all galvanized G-90 steel housing provides a simple solution to installing a fan and all required accessories in a rough wall opening. It can be used in exhaust or supply applications and in fan sizes 10 through 60 inch.
38-39	Filtered Wall Housing 	For installations where filtering is required. Heavy-gauge, all galvanized G-90 steel filtered wall housings are available in both supply and exhaust configurations. They are available in nine (9) sizes for fans ranging from size 14 to 60 inches. They are designed with the draw-thru concept to achieve the highest filter and fan efficiencies.
40	Wall Collar 	Heavy-gauge, all G-90 galvanized mounting collar provides a simple solution to installing a fan in a rough wall opening when a rear safety guard is NOT required.

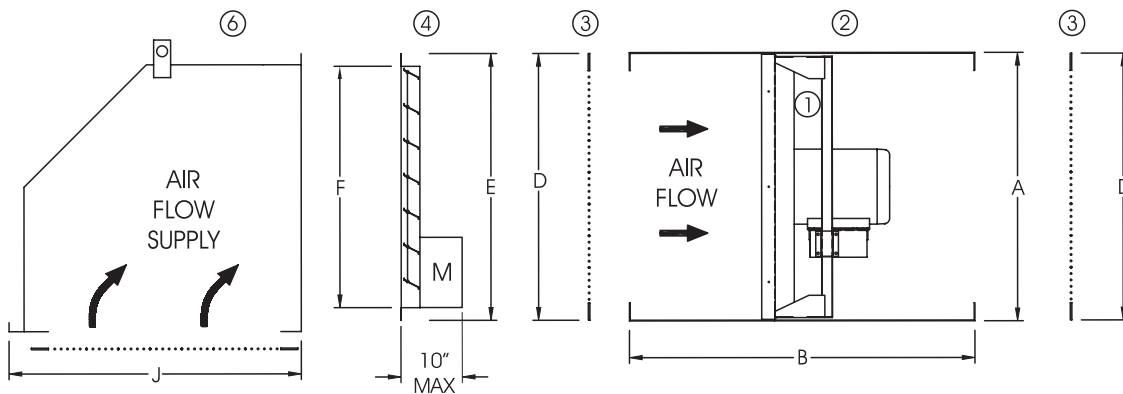


WALL HOUSING MOUNTING OPTIONS

WALL HOUSING: This heavy-gauge, all galvanized G-90 steel (aluminum optional) housing provides a simple solution to installing a fan and all specified accessories in a rough wall opening. It can be used in exhaust or supply applications and maintains the proper clearance between the fan and damper. Depending on space and maintenance requirements, the wall housing may be installed projecting inside or outside of the building. All housings ship assembled with the fan to lessen job site installation costs. Wire motorside guard, damper or propeller side guard and rainhood may be attached to the flange. We strongly recommend a rainhood and motorized shutter for all supply applications and whenever additional weather resistance is desired.



Fan Size	A (S.Q.) O.D. ①	Wall Housing ②				Minimum Wall Opening	Flat Guard ③	Damper ④		Rainhood Exhaust 45 Deg. ⑤		
		B Length						Square	D (SQ.)		E (O.D.)	F
		GED & DFE Only		DDE/DDS								
		Exhaust	Supply	Exhaust	Supply							
10/12	17	26	26	N/A	N/A	17 1/2	16	14 1/2	12	16 3/4		
14/16	21	26	26	N/A	N/A	21 1/2	20	18 1/2	16	20 1/4		
18/20	25	26	26	N/A	N/A	25 1/2	24	22 1/2	20	24 1/4		
24	31	44	44	44	44	31 1/2	30	28 1/2	26	28 1/2		
30	37	44	44	44	44	37 1/2	36	34 1/2	32	34 1/2		
36	43	N/A	N/A	44	44	43 1/2	42	40 1/2	38	40 1/2		
42	49	N/A	N/A	44	44	49 1/2	48	46 1/2	44	44 1/2		
48	55	N/A	N/A	44	44	55 1/2	54	52 1/2	50	49 1/2		
54	61	N/A	N/A	44	44	61 1/2	60	58 1/2	56	55		
60	67	N/A	N/A	44	44	67 1/2	66	64 1/2	62	69		



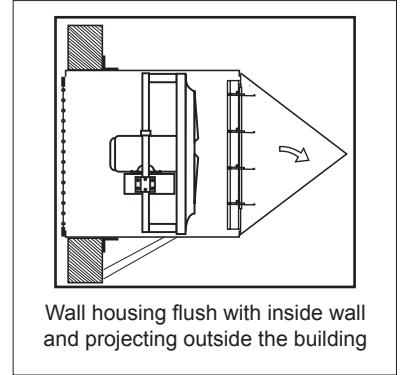
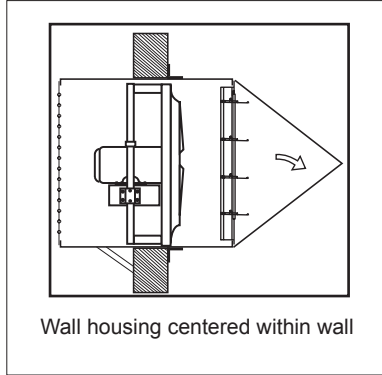
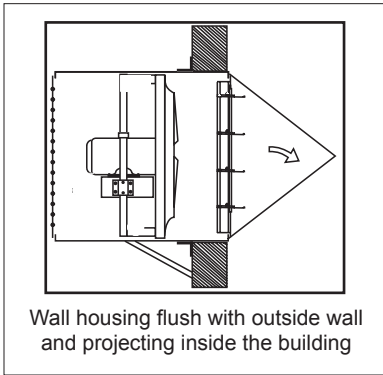
90 Deg. Supply Rainhood - Sizes 20 Thru 60

Fan Size	Width	Height	J	Gauge	Degree
20	22	22	27 3/4	18	90
24	27 1/4	26 1/2	38 1/2	18	90
30	32 1/2	33 1/2	44 1/2	18	90
36	38 1/2	39 1/4	49	18	90
42	44 1/2	45 1/4	56 1/2	18	90
48	50 1/2	51 1/2	62 1/2	18	90
54	56 3/4	57	73	18	90
60	62 3/4	63	73	18	90



WALL HOUSING STANDARD MOUNTING ARRANGEMENTS

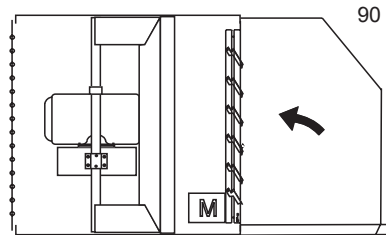
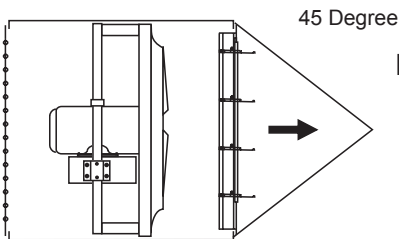
The most common mounting arrangement (below left) leaves a clean building exterior and allows access to the fan, motor and drives from inside the building. Additional bracing angle, rod or cable (field provided) should be used in addition to the mounting angles to support the fan and wall housing assembly.



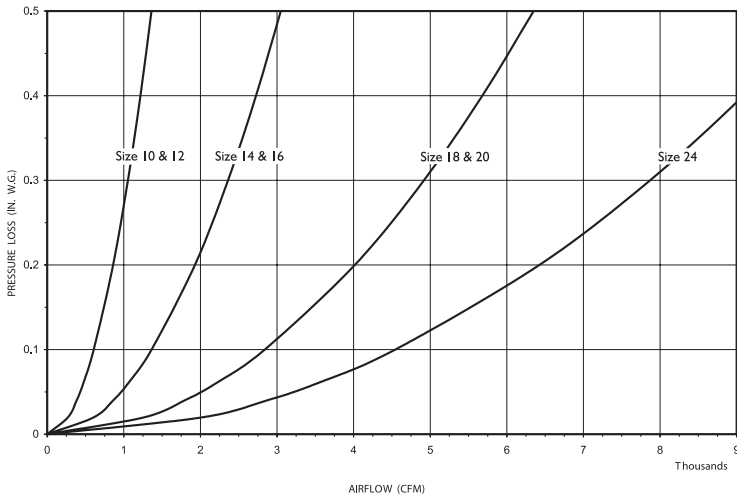
NOTE: Supply applications have the fan venturi spun on the opposite side of the fans shown above. The fans shown are exhaust. Rainhoods are required on supply applications and recommended on exhaust applications where additional weather protection is desired. Exhaust and/or supply fans installed as shown should be serviced from the interior of the building. Where service is required from the exterior of the building, consult the factory or representative for recommendations. All bracing shown is field provided. Field flashing and caulking of wall housing seams and unused mounting holes, will ensure a weather resistant installation.

PRESSURE LOSS GUIDE FOR ACCESSORIES

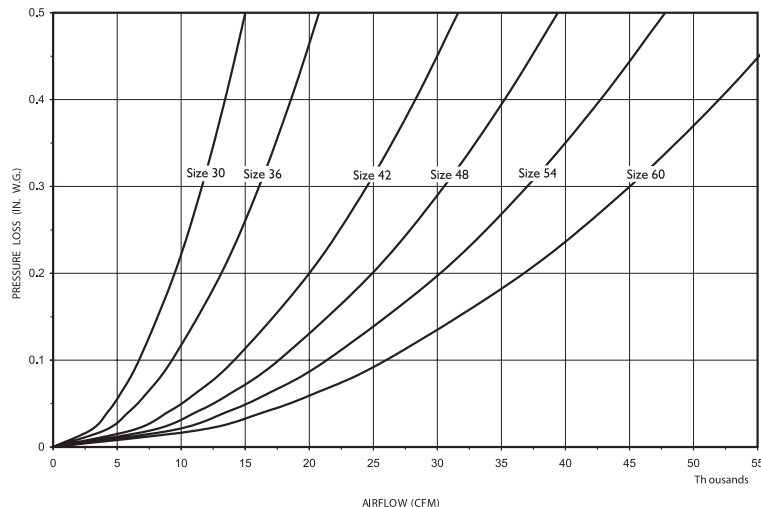
Use the estimated pressure drop graphs to help select the proper exhaust or supply fan that will deliver the desired airflow. Enter the graph from the bottom at the specified CFM and move vertically upward to the fan curve for the desired size, then horizontally to the left and read the estimated static pressure drop resulting from these typical accessory packages. Add the accessory pressure loss to the system (or building) design static pressure loss to obtain the total static pressure loss to be used for the proper fan selection.



SIZES 10 THROUGH 24



SIZES 30 THROUGH 60

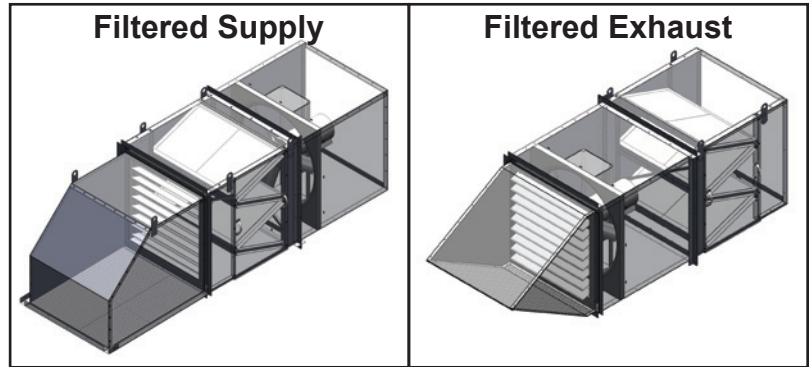




FILTERED WALL HOUSING MOUNTING OPTIONS

Filtered wall housings are available in both supply and exhaust configurations. They are available in nine (9) sizes for fans ranging from size 14 to 60 inches. They are designed with the draw-thru concept to achieve the highest filter and fan efficiencies.

Standard construction is galvanized steel. Mounting flanges are factory installed for either flush exterior or flush interior. Permanent 2-inch (51 mm) washable filters are accessed through a bolted or hinged panel and can be easily removed for cleaning.



FILTERED SUPPLY WALL HOUSING

Standard Features and Options

1. **Wall Housing Box (Standard)**

2. **Filter Box (Standard)**

- Bolted or Hinged Door
- Includes 2 sets of flanges for mounting filter box to wall housing.

3. **Wall Mount Flanges**

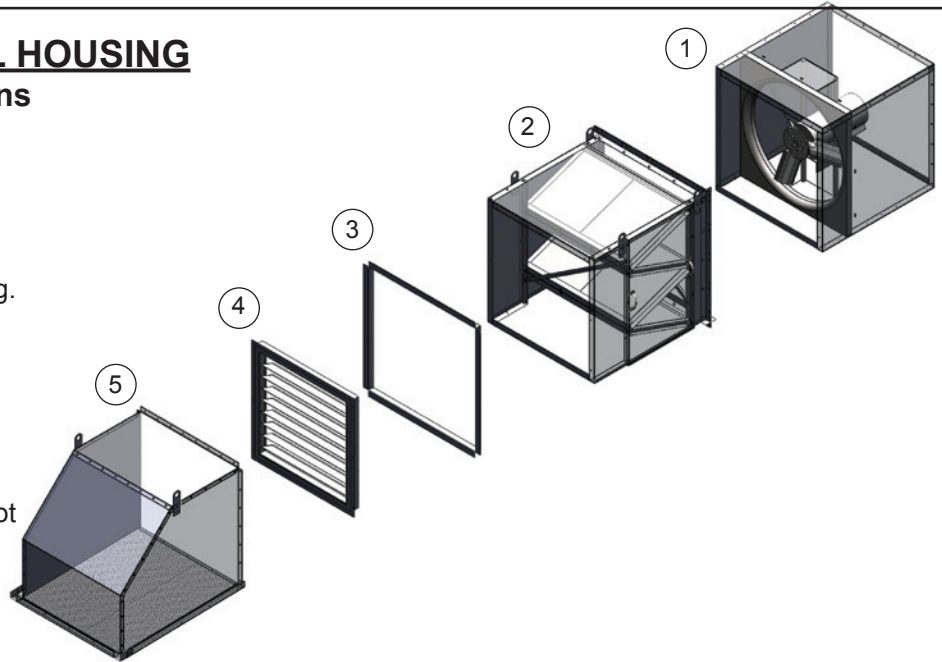
- Set of 4 - shipped loose

4. **Damper (Optional)**

- Supply Type
- Gravity, Motorized, or Center Pivot

5. **Rain Hood (Optional)**

- 90 Degree - Supply Type



FILTERED EXHAUST WALL HOUSING

Standard Features and Options

1. **Wall Housing Box (Standard)**

2. **Filter Box (Standard)**

- Bolted or Hinged Door
- Includes 2 sets of flanges for mounting filter box to wall housing.

3. **Wall Mount Flanges**

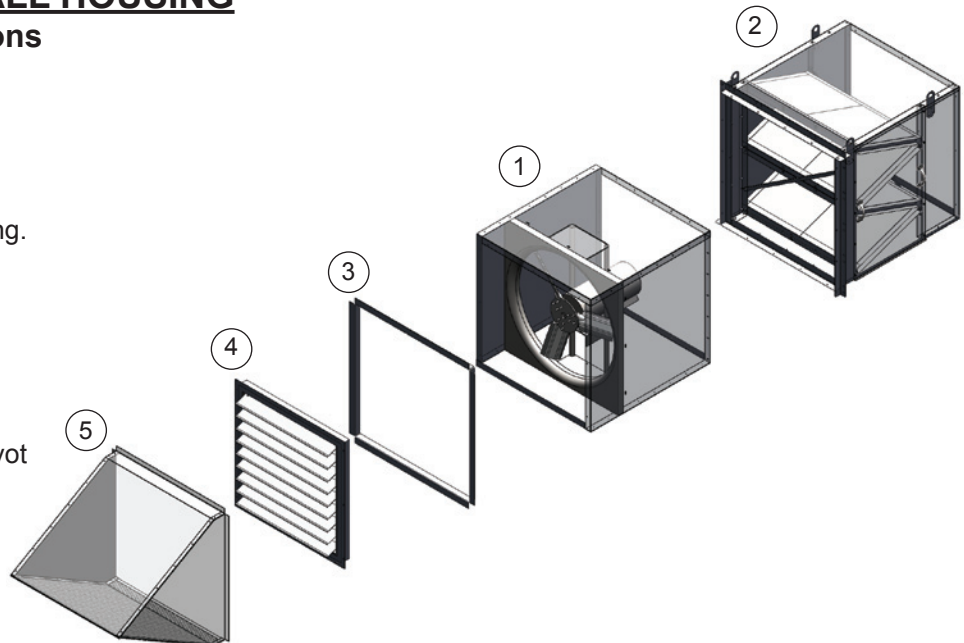
- Set of 4 - shipped loose

4. **Damper (Optional)**

- Exhaust Type
- Gravity, Motorized, or Center Pivot

5. **Rain Hood (Optional)**

- 45 Degree - Exhaust Type

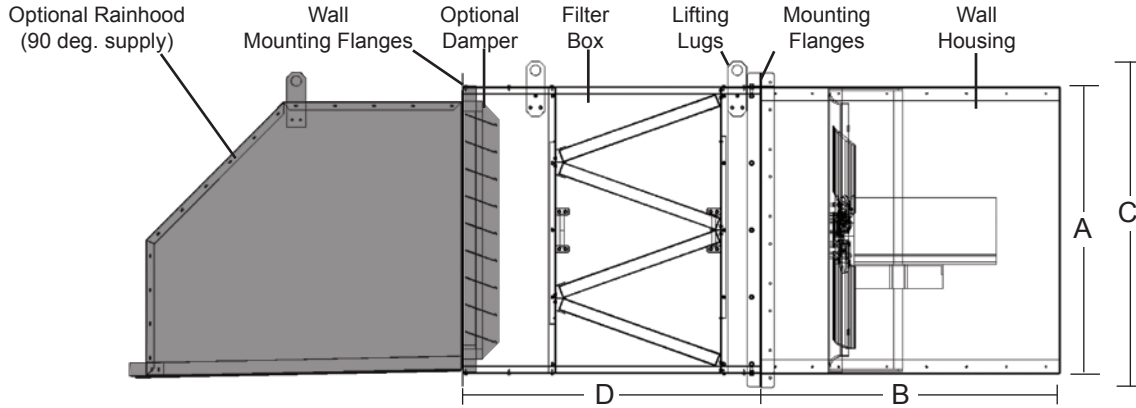




FILTERED WALL HOUSING MOUNTING OPTIONS Cont.

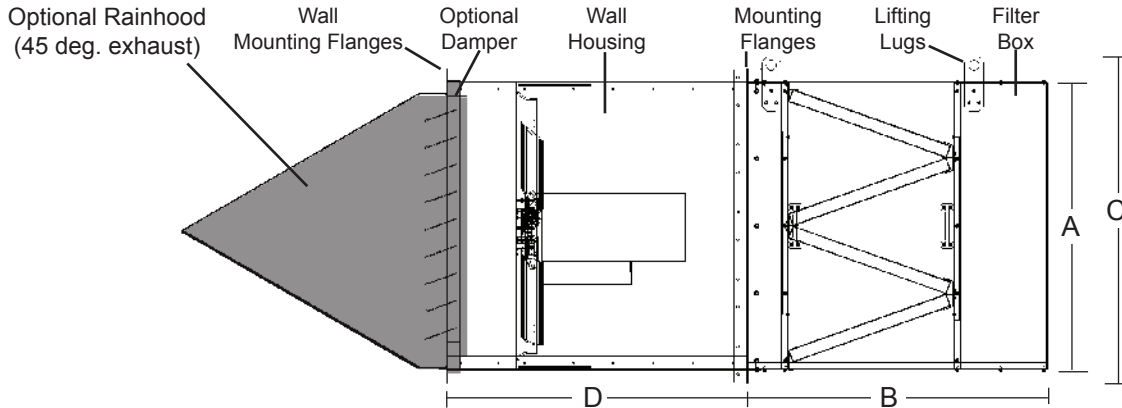
Filtered Wall Housing Dimensions

Filtered Supply



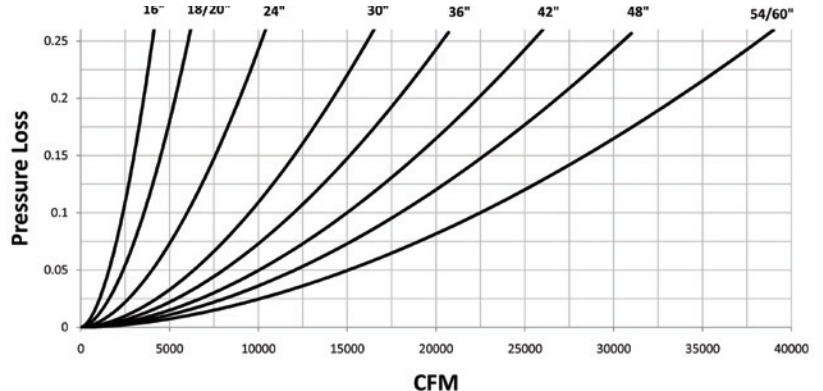
Fan Size	A (S.Q.) O.D.	Wall Housing B Length				Minimum Wall Opening Square	Filter Box			
		GED & DFE Only		DDE/DDS			C	D	# of Filters	Filter Actual Dimensions
		Exhaust	Supply	Exhaust	Supply					
14/16	21	26	26	N/A	N/A	21 1/2	21	39	2	19 5/8 x 19 5/8 x 1 7/8
18/20	25	26	26	N/A	N/A	25 1/2	25	44 1/8	3	19 5/8 x 24 5/8 x 1 7/8
24	31	44	44	44	44	31 1/2	31	41 1/8	4	19 5/8 x 24 5/8 x 1 7/8
30	37	44	44	44	44	37 1/2	37	44 1/8	8	15 5/8 x 24 5/8 x 1 7/8
36	43	N/A	N/A	44	44	43 1/2	43	44 1/8	8	19 5/8 x 24 5/8 x 1 7/8
42	49	N/A	N/A	44	44	49 1/2	49	44 1/8	10	19 5/8 x 24 5/8 x 1 7/8
48	55	N/A	N/A	44	44	55 1/2	55	40 1/2	12	19 5/8 x 24 5/8 x 1 7/8
54	61	N/A	N/A	44	44	61 1/2	61	44 1/8	15	19 5/8 x 24 5/8 x 1 7/8
60	67	N/A	N/A	44	44	67 1/2	67	44 1/8	15	19 5/8 x 24 5/8 x 1 7/8

Filtered Exhaust



PRESSURE LOSS GUIDE FOR FILTER BOX

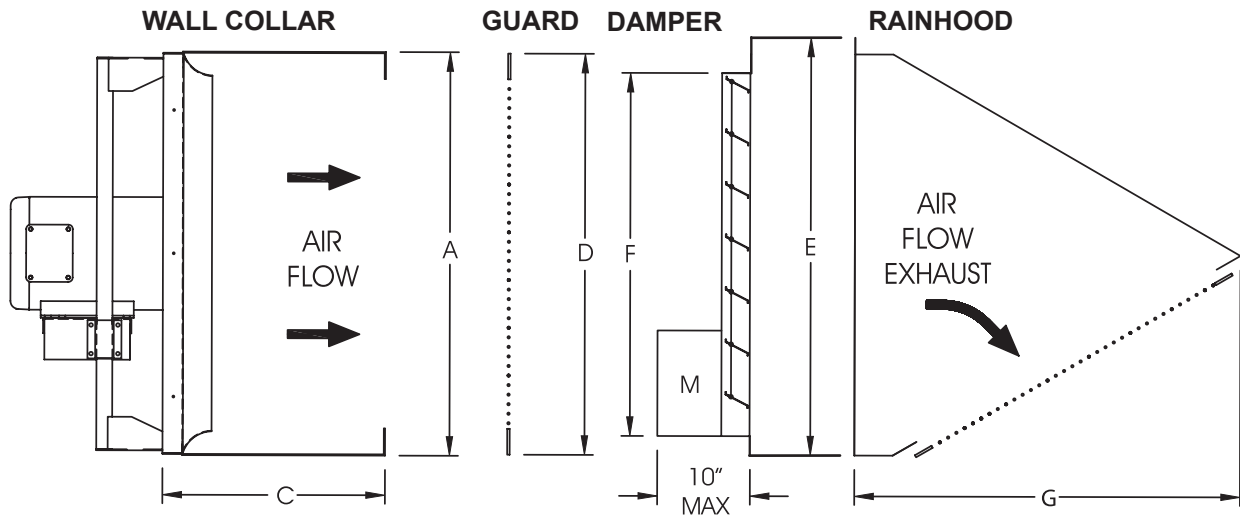
Use the estimated pressure drop graphs to help select the proper exhaust or supply fan that will deliver the desired airflow. Enter the graph from the bottom at the specified CFM and move vertically upward to the fan curve for the desired size, then horizontally to the left and read the estimated static pressure drop resulting from these typical accessory packages. Add the accessory pressure loss to the system (or building) design static pressure loss to obtain the total static pressure loss to be used for the proper fan selection.





WALL COLLAR MOUNTING OPTIONS

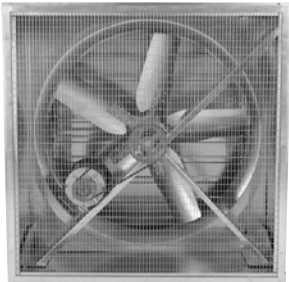
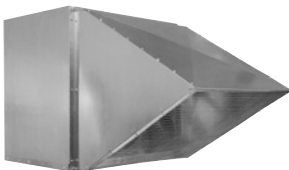

WALL COLLAR: This heavy-gauge, all G-90 galvanized (aluminum optional) mounting collar provides a simple solution to installing a fan in a rough wall opening when a rear safety guard is **NOT** required. A front wire guard or shutter and rainhood can be attached to the front flanges. The wall collar can be used in exhaust or supply applications for all fan sizes and maintain the proper clearance between the fan and damper. The wall collar is mounted with the fan on the interior side of the building. All collars ship fully assembled with the fan to lessen job site installation costs. We strongly recommend a rainhood and motorized shutter for all supply applications and for additional weather protection.



Fan Size	WALL COLLAR		MINIMUM WALL OPENING	FLAT GUARD	DAMPER		RAINHOOD Exhaust 45 Deg.
	A	C	Square	D (SQ.)	E (O.D.)	F	G
10/12	17	16	17 1/2	16	14 1/2	12	16 3/4
14/16	21	16	21 1/2	20	18 1/2	16	20 1/4
18/20	25	16	25 1/2	24	22 1/2	20	24 1/4
24	31	21	31 1/2	30	28 1/2	26	28 1/2
30	37	21	37 1/2	36	34 1/2	32	34 1/2
36	43	21	43 1/2	42	40 1/2	38	40 1/2
42	49	21	49 1/2	48	46 1/2	44	44 1/2
48	55	21	55 1/2	54	52 1/2	50	49 1/2
54	61	21	61 1/2	60	58 1/2	56	55
60	67	21	67 1/2	66	64 1/2	62	69



ACCESSORIES & OPTIONS **FOR MOUNTING ARRANGEMENTS**

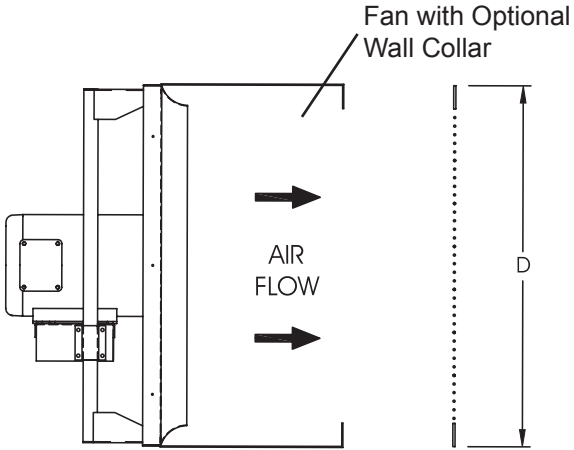
Accessory or Option	
	<p>Safety Guards Safety Guards (Standard or Heavy-Duty Flat Guards) are strongly recommended to protect personnel from accidental injury and to prevent debris from entering the fan. OSHA approved guards are required in many installations including when the fans are within 7 feet of the floor or work/access area.</p>
	<p>Rainhoods or Weatherhoods Designed to provide additional weather protection by partially shielding the wall opening and should be used for all supply applications and whenever additional weather resistance is desired. The galvanized (aluminum optional) hood attaches to the wall housing or wall collar flanges. Field flashing and caulking will reduce moisture penetration. Shown with optional birdscreen.</p>
	<p>Dampers Used alone or in conjunction with the wall housing or wall collar, a complete line of dampers are available for exhaust or supply configurations.</p>



ACCESSORIES & OPTIONS FOR MOUNTING ARRANGEMENTS Cont.

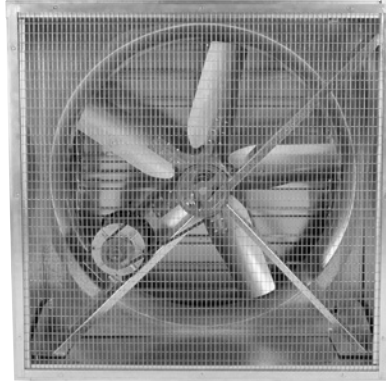
Safety Guards

Safety guards are strongly recommended to protect personnel from accidental injury and to prevent debris from entering the fan. OSHA approved guards are required in many installations including when the fans are within 7 feet of the floor or work/access area.



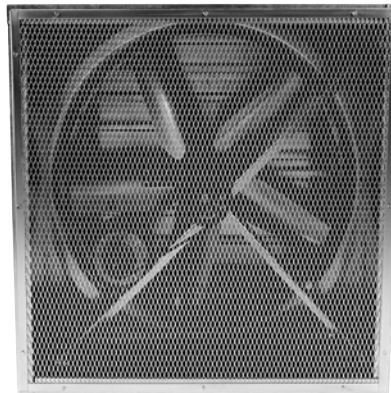
Dimensions

Fan Size	D (SQ.)
10/12	16
14/16	20
18/20	24
24	30
30	36
36	42
42	48
48	54
54	60
60	66



Standard Duty Flat Wire Guard

The removable safety guard satisfies OSHA requirements when used with the optional wall housing as a motor-side (rear) guard. The 16 ga. 1/2" X 1" welded wire mesh is mounted in a galvanized frame and attaches to the inward flanges of the wall housing.



Heavy-Duty Flat Wire Guard

The removable safety guard satisfies OSHA requirements when used with the optional wall housing as a motor-side (rear) guard. The H.D. expanded aluminum mesh is mounted in a galvanized frame and attaches to the inward flanges of the wall housing.



ACCESSORIES & OPTIONS

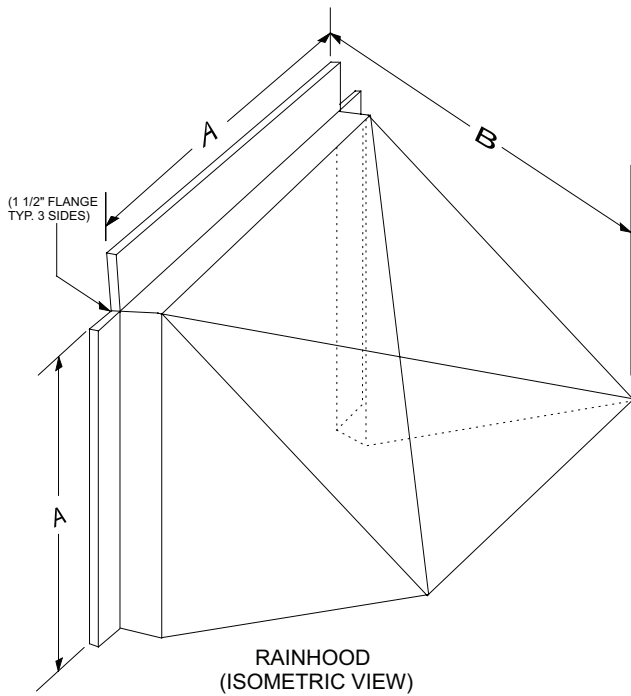
FOR MOUNTING ARRANGEMENTS Cont.

Rainhoods or Weatherhoods

Designed to provide additional weather protection by partially shielding the wall opening and should be used for all supply applications and whenever additional weather resistance is desired. The galvanized (aluminum optional) hood attaches to the wall housing or wall collar flanges. Field flashing and caulking will reduce moisture penetration. Shown with optional birdscreen.



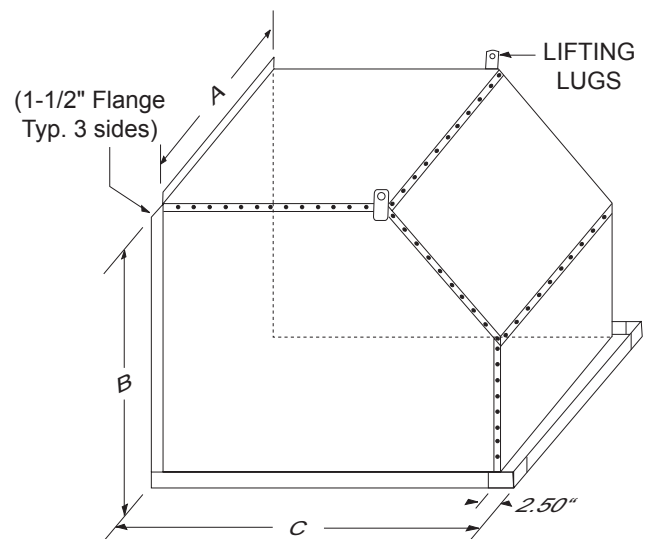
45 Degree Exhaust or Supply Sizes 10-18



RAINHOOD
(ISOMETRIC VIEW)

Fan Size	A	B	GAUGE (2)	AVG. WT.
10/12	14	16-1/4	18	15
14/16	18	20-1/4	18	20
18/20	22	24-1/2	18	25
24	28	28-1/2	18	30
30	34	34-1/2	18	40
36	40	40-1/2	18	50
42	46	46-1/2	18	60
48	52	49-1/2	16	70
54	58	58-1/2	16	120
60	64	64-1/2	16	175

90 Degree Supply Sizes 20-60



Fan Size	A	B	C	GAUGE (2)	AVG. WT.
20	22	22	27-3/4	18	25
24	27-1/4	26-1/2	38-1/2	18	30
30	32-1/2	33-1/2	44-1/2	18	40
36	38-1/2	39-1/4	49	18	50
42	44-1/2	45-1/4	56-1/2	18	60
48	50-1/2	51-1/2	62-1/2	18	70
54	56-3/4	57	73	18	120
60	62-3/4	63	73	18	175



ACCESSORIES & OPTIONS **FOR MOUNTING ARRANGEMENTS Cont.**

Damper Types (Shutters)

Heavy-Duty Galvanized Exhaust Motorized Shutter



This damper has a flanged frame and is designed to fit the inside flanges of the optional wall housing or wall mounting collar. The frame and blades are constructed of galvanized steel and are rated to 3000 FPM with proper clearance as provided by all factory accessories. The damper body recesses into the opening for a flush appearance.

Standard Duty Aluminum Exhaust Gravity Shutter



This damper can greatly reduce the infiltration of outside air and although not completely watertight, will provide weather protection in an economical fashion. Constructed with a galvanized frame and aluminum blades this damper is rated to 2000 FPM with the proper clearance as provided by all factory accessories. The damper body is recessed into the opening for a flush appearance.

Heavy-Duty Galvanized Supply Motorized Shutter



The motorized option improves weather protection by providing a tighter closure seal and is recommended for all supply applications. Heavy-duty dampers are constructed with galvanized frames and blades and are rated to 3000 FPM. The damper body is not recessed providing extra clearance between the fan and damper blades.

Standard Duty Aluminum Supply Motorized Shutter



The motorized option improves weather protection by providing a tighter closure seal and is recommended for all supply applications. Standard duty dampers are constructed with galvanized frames and aluminum blades and are rated to 2000 FPM. The damper body is not recessed providing extra clearance between the fan and damper blades.

Center Pivot Motorized Damper - Supply or Exhaust



The flanged frame damper is designed to recess inside the flanges of the optional wall housing or wall mounting collar. The center pivot style damper provides superior weather resistance. Galvanized (optional aluminum) construction is rated to 3500 FPM with proper clearance as provided by all factory accessories.

Electric Damper Operators

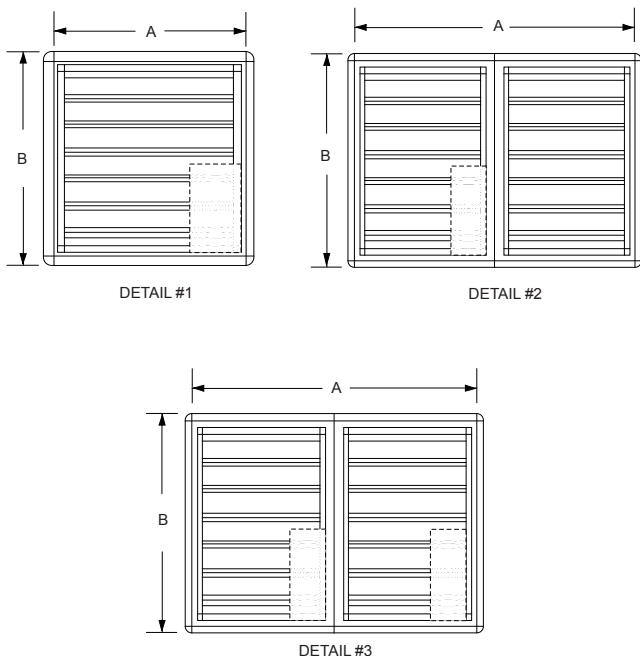
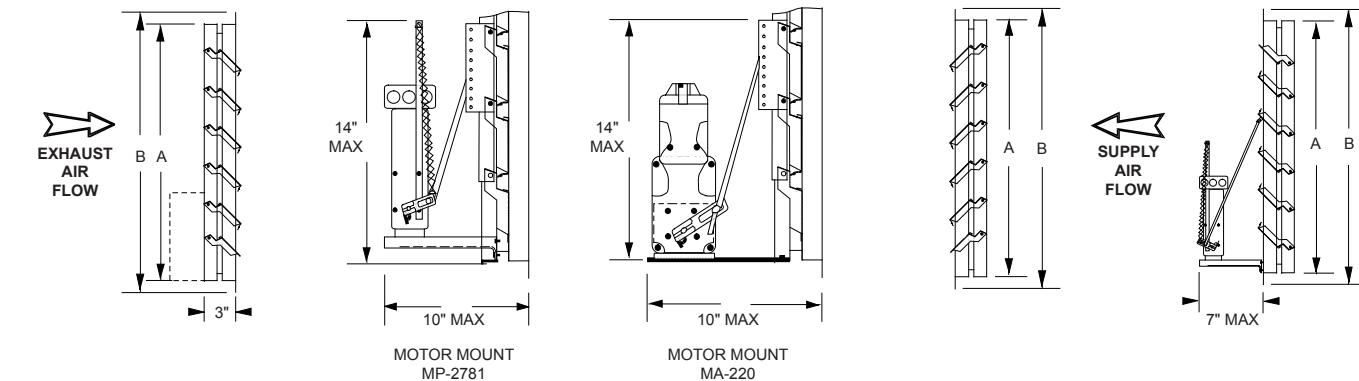
Electric damper operators provide more positive open and closed damper positions which helps increase weather resistance. Power open - spring close (POSC) motor and linkage kits are field installed (except for center pivot style) and are available in 24, 120/240, or 460 volts (single phase) and require approximately 0.5 amps at 120/1/60 power supply. Transformers are available for voltage reduction. For fan motors 5HP and larger, we recommend a factory tilt switch or "delay-on" timer in the control circuit (by others) to allow the damper to open prior to allowing fan operation, which will protect the damper blades and fan from damage when the fan is first energized.



ACCESSORIES & OPTIONS

FOR MOUNTING ARRANGEMENTS Cont.

Dimensions (Standard and Heavy-Duty Dampers)



Fan Size	A Sq. Size	B Sq. OD Flange	Panels (Detail)	Motor Type			
				Exhaust		Supply	
				Type	Qty	Type	Qty
10/12	12	14 1/2	1	MP-2781	1	MP-2781-S	1
14/16	16	18 1/2	1	MP-2781	1	MP-2781-S	1
18/20	20	22 1/2	1	MP-2781	1	MP-2781-S	1
24	26	28 1/2	1	MP-2781	1	MP-2781-S	1
30	32	34 1/2	1	MP-2781	1	MA-220-S	1
36	38	40 1/2	1	MA-220	1	MA-220-S	1
42	44	46 1/2	2	MA-220	1	MA-220-S	2
48	50	52 1/2	2	MA-220	1	MA-220-S	2
54	56	58 1/2	3	MA-220	2	MA-220-S	2
60	62	64 1/2	3	MA-220	2	MA-220-S	2

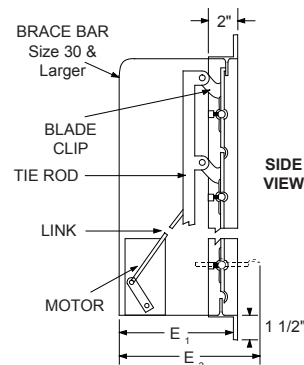
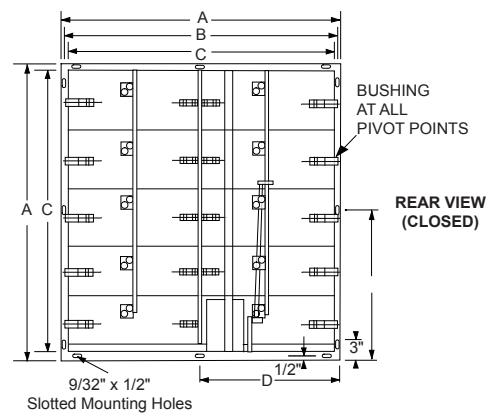
Heavy Duty Dampers required on all units with 7 1/2HP motors and above.

Dimensions (Center Pivot Motorized Damper)

Fan Size	Opening Required	A O.D.	B (1)	C "Size"	D (Center of Holes)	# of Panels	G	
							Closed (E-1)	Open (E-2)
24	27	29	24-1/2	26	-	1 x 1	7-1/4	8-1/2
30	33	35	30-1/2	32	-	1 x 1	10-1/4	13-3/4
36	39	41	36-1/2	38	19-1/2	1 x 1	10-1/4	13-3/4
42	45	47	42-1/2	44	22-1/2	1 x 1	10-1/4	13-3/4
48	51	53	48-1/2	50	25-1/2	2 x 1	10-1/4	13-3/4
54	57	59	54-1/2	56	28-1/2	2 x 1	10-1/4	12-3/4
60	63	65	60-1/2	62	31-1/2	2 x 1	10-1/4	12-3/4

Fan Size	Motor (2)		
	Power Supply	Max Amps	Stall Torque (in. lbs)
24-48	120-240V 60Hz	0.3/0.6	25
54-72	240V 60Hz	0.5	60

(1) Minimum opening to clear pins.
 (2) Motor is 60 Hz, single phase continuous duty with 104°F (40°C), maximum ambient temperature





ACCESSORIES & OPTIONS

Electrical Accessories are available to simplify the installation and reduce the total project cost.

Disconnect Switches can be shipped loose or factory mounted and wired (except explosion proof and two speed) in NEMA 1, 3R, 4X, or other enclosures. Two-speed and explosion proof disconnects are available but may be subject to more stringent code requirements. It is the responsibility of the buyer and the installer to comply with all local and national codes.

Aluminum Construction is available for most models and typically includes propeller blades, fan panel, motor and drive support (large frame motors may have steel reinforcement) and accessories. When an explosion proof motor is specified, aluminum fan construction must be used for additional spark resistance.

Extended Lube Lines provide convenient access for routine bearing lubrication. Lubrication lines are installed from the fan shaft bearings to the exterior of the wall housing or sheet metal motorside guard and are provided with zerk fittings.

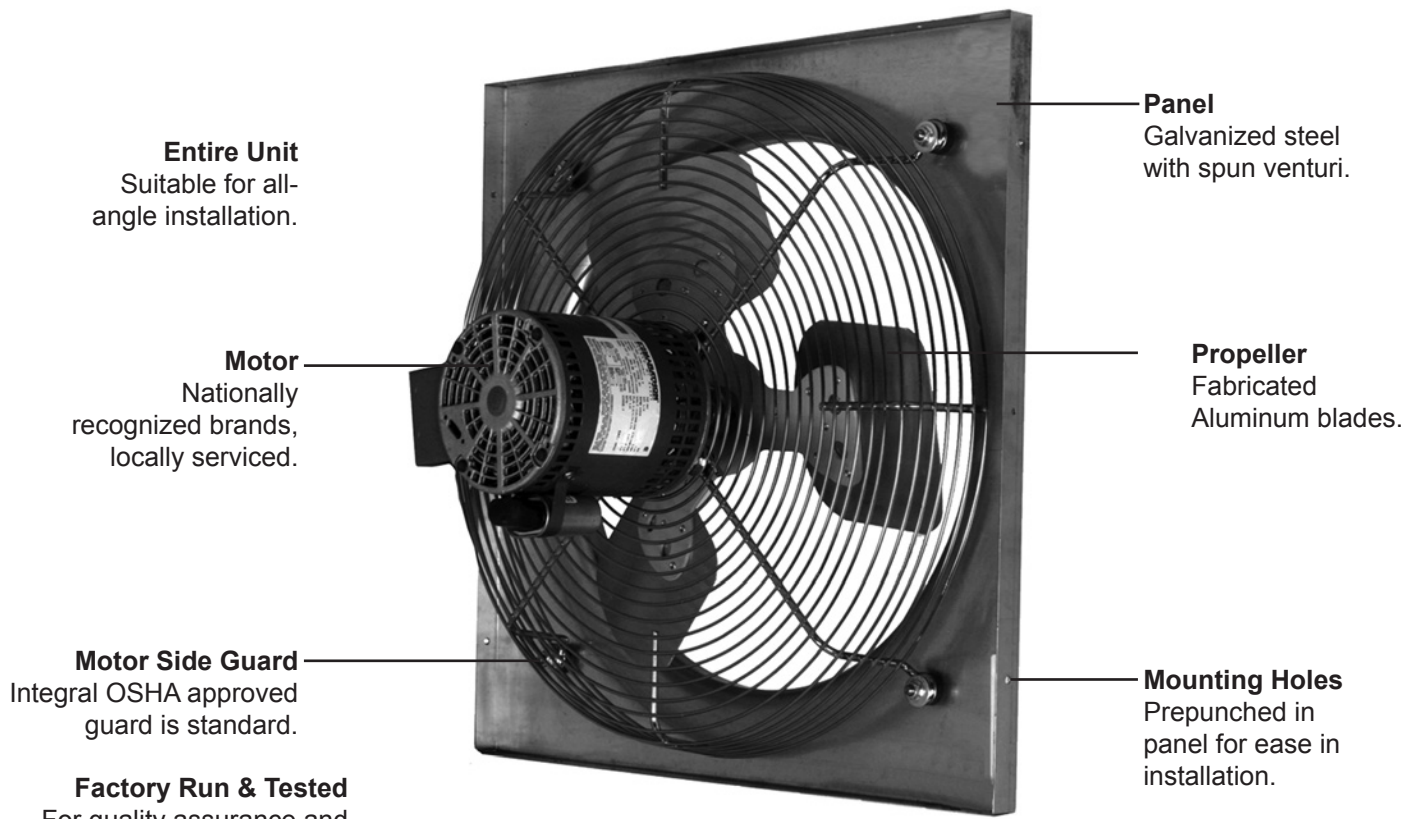
Paints and Coatings for protective and decorative purposes. Available coatings include: Epoxy, Synthetic Resin, and Heresite (air-dried phenolic). Contact your Soler & Palau representative or the factory for more information on available coatings and colors.

Mounting Angles facilitate the installation and a secure attachment of the wall housing or wall collar into the framed wall opening. Galvanized or aluminum angles are available and are pre-cut to the proper length. Additional bracing, mounting hardware, flashing and caulking are typically provided by the installer.

Factory Wiring can simplify jobsite installation and reduce the overall project cost. Optional services include wiring of motor, disconnect switch, damper actuator, and other custom controls. Please note that some wiring options may not be available for explosion proof, two speed and special motors.



MODEL GED & GSD CONSTRUCTION FEATURES



Entire Unit
Suitable for all-angle installation.

Motor
Nationally recognized brands, locally serviced.

Motor Side Guard
Integral OSHA approved guard is standard.

Factory Run & Tested
For quality assurance and dependable operation.

Panel
Galvanized steel with spun venturi.

Propeller
Fabricated Aluminum blades.

Mounting Holes
Prepunched in panel for ease in installation.



cULus Listed - Standard 705

Industry best 5 year fan housing warranty, 1 year motor warranty

Construction/Specification Checklist Panel Assembly

- Galvanized steel, 16 or 18 gauge, G-90.
- One piece spun venturi for maximum efficiency.
- Prepunched mounting holes for easy installation.
- Formed flanges for added rigidity.
- Integral OSHA approved motorside guard.

Propeller

- Fabricated aluminum blades, precision pitch.
- Mounted directly on motor shaft for maximum efficiency.
- Separate exhaust and supply designs.
- Statically and dynamically balanced.

Motors

- Nationally recognized brands, locally serviced.
- Sealed ball bearings on larger fractionals.
- Sleeve bearings on smaller fractionals.
- Open drip-proof motor enclosures.

Entire Fan Unit

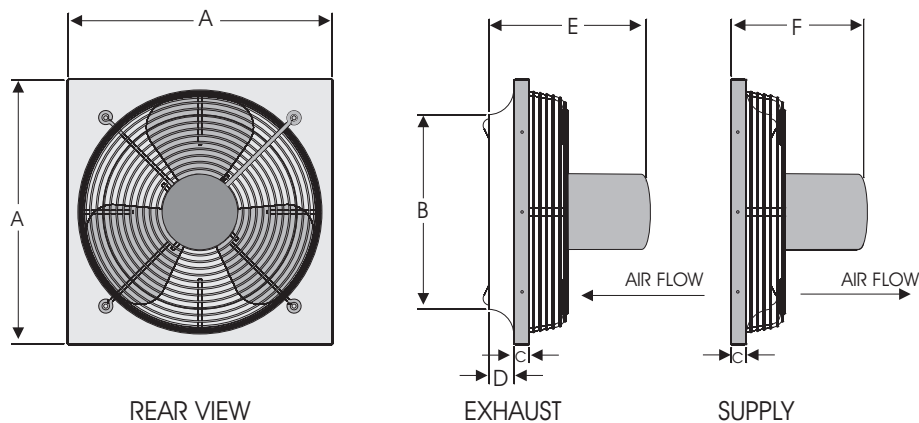
- Suitable for all-angle installation.
- Completely assembled and factory tested prior to shipment.

All specifications are subject to change without notice unless approved in submittal by Soler & Palau.



PERFORMANCE/DIMENSIONS

Model GED (Exhaust) & GSD (Supply)



GED/GSD Size	Dimensions (in.)						Avg. Ship Wt. (lbs.)
	A	B	C	D	E*	F*	
10	16	10-1/2	1	2	11	9	30
12	16	12-1/2	1	2	14	12	30
14	20	14-1/2	1	2	14	12	34
16	20	16-1/2	1	2	14	12	37
18	24	18-1/2	1	2	15	13	45
20	24	20-1/2	1	2	15	13	50

- A. Outside dimension of square panel.
- B. Diameter of venturi.
- C. Width of flange, 1" for all models.
- D. Depth of venturi, 2" for all models.
- E. Depth of fan (exhaust).
- F. Depth of fan (supply).
- * Varies with motor selection.



Model GED/GSD	Motor		Sones @ 0" SP	CFM / BHP @ Static Pressure (Inches W.G.)							
	HP	RPM		0	1/10	1/8	1/4	3/8	1/2	5/8	3/4
10	1/10	1550	7.8	718/.04	611/.04	561/.04	391/.06	336/.07	290/.08	245/.10	197/.11
	1/4	1625	11.9	1489/.17	1410/.18	1386/.18	1228/.19	966/.20	794/.22	720/.25	660/.27
14	1/4	1625	13.1	1967/.20	1862/.22	1837/.23	1704/.24	1431/.26	1142/.29	-	-
	1/2	1625	17.1	2533/.36	2410/.38	2376/.38	2160/.40	1866/.41	1509/.42	1414/.46	1299/.50
16	1/4	1075	9.5	2467/.20	2245/.21	2159/.22	1734/.23	1347/.26	1102/.29	-	-
	1/3	1625	15.8	2634/.27	2516/.29	2482/.29	2287/.32	2050/.34	1719/.36	1477/.39	-
18	1/4	1075	10.7	3003/.20	2732/.21	2658/.21	2196/.23	1474/.24	1186/.26	929/.28	-
	1/2	1625	15.7	3091/.24	2930/.26	2886/.27	2653/.29	2388/.31	2097/.33	1535/.35	1282/.37
20	1/4	1075	12.2	3575/.21	3264/.23	3177/.24	2715/.26	1765/.27	-	-	-
	1/2	1625	14.1	3460/.23	3285/.27	3242/.27	3006/.31	2727/.35	2362/.39	1945/.45	1676/.53

Performance shown is for wall ventilators for installation type A: Free inlet, Free outlet. The power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

Sound ratings shown are loudness values in fan sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: Free inlet fan sone levels. For additional sound data and for selections at other static pressures, please refer to the Optimizer Selection Program.

Available motor RPM's may vary from table.

Motors designed for use with optional solid state speed controller.

cULus available on most models (optional).

Supply performance is obtained by reversing the direction of the venturi.



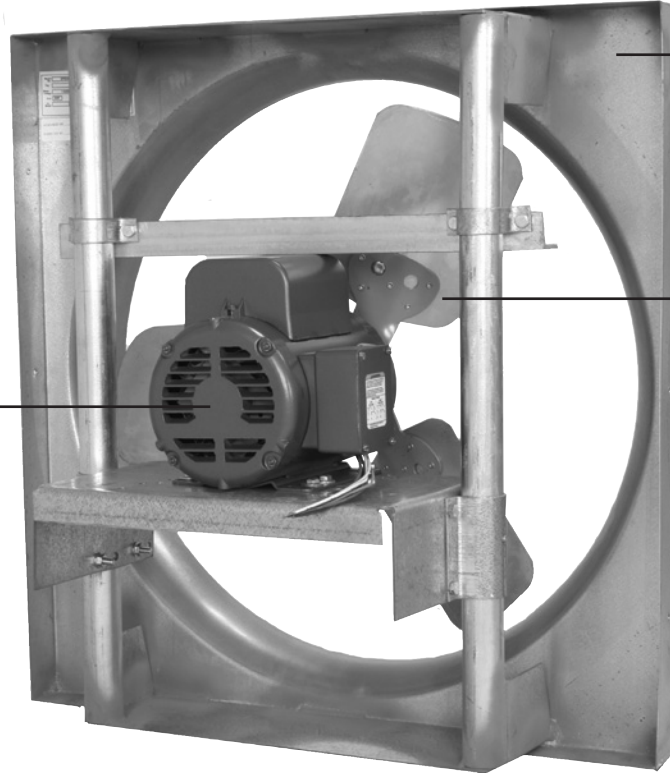
MODEL DFE & DFS CONSTRUCTION FEATURES

Model DFE & DFS

Entire Unit
Suitable for
all-angle installation.

Motor
Nationally recognized
brands, locally serviced.

Factory Run & Tested
For quality assurance and
dependable operation.



Panel
Galvanized steel
with spun venturi.

Propeller
Fabricated
Aluminum blades.

Mounting Holes
Prepunched in panel for
ease in installation.

Industry best 5 year fan housing warranty, 1 year motor warranty

Construction/Specification Checklist

Panel Assembly

- Galvanized steel, 16 or 18 gauge, G-90.
- Precision spun orifice for maximum performance.
- Prepunched mounting holes.
- Welded schedule 40 galvanized steel pipe support structure.

Propeller

- Precision pitched fabricated aluminum blades.
- Mounted directly on shaft for maximum efficiency.
- Cast aluminum and nonmetallic blade options on select sizes.
- Statically and dynamically balanced.

Motors

- Nationally recognized brands, locally serviced.
- Permanently lubricated sealed ball bearing type.
- Open drip-proof, totally enclosed and explosion proof options.
- Available 2 speed units in select models.

Entire Fan Unit

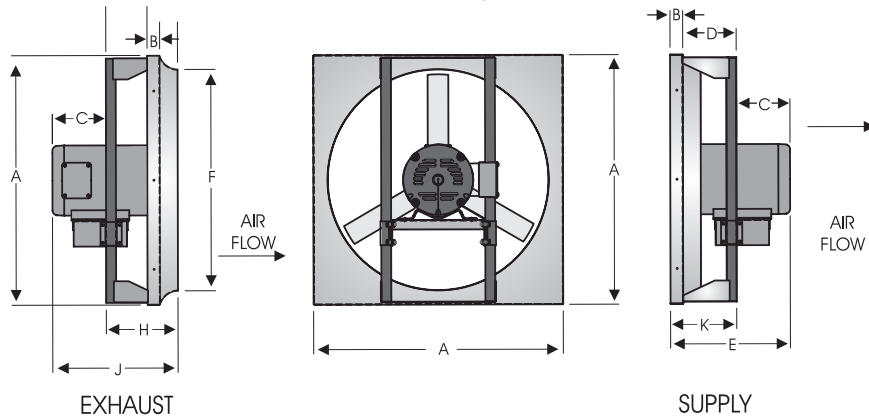
- Suitable for all-angle installation.
- Completely assembled and factory tested prior to shipment.

All specifications are subject to change without notice unless approved in submittal by Soler & Palau.



PERFORMANCE/DIMENSIONS

Model DFE (Exhaust) / DFS (Supply)



DFE/DFS Size	Dimensions (in.)											Avg. Ship Wt. (lbs.)
	A	B	C*	D	E*	F	G	H	I	J*	K	
10	16	1	6	6	11	10-1/2	2	8	5	14	7	30
12	16	1	6	6	11	12-1/2	2	8	5	14	7	30
16	20	1	6	6	12	16-1/2	2	8	5	14	7	37
18	24	1	6	6	12	18-1/2	2	8	5	14	7	45
20	24	1	7	6	12	20-1/2	2	8	5	15	7	50
24	30	2	10	9	21	25	3	10	4	20	11	70
30	36	2	10	9	21	31	3	10	4	20	11	100

- A. Outside dimension of square panel.
 - B. Width of flange.
 - C. Depth of motor beyond support structure.*
 - D. Depth of support structure - supply.
 - E. Depth of fan - supply.*
 - F. Diameter of venturi.
 - G. Depth of venturi.
 - H. Depth of panel and support structure - exhaust.
 - I. Depth of support structure - exhaust.
 - J. Depth of fan - exhaust.*
 - K. Depth of panel and support structure - supply.
- *Varies with motor selection

Model DFE/DFS	HP	RPM	Sones @ 0" SP	CFM / BHP @ Static Pressure (Inches W.G.)									
				0	1/10	1/8	1/4	3/8	1/2	5/8	3/4	1	
10	1/4	1750	8.4	617/.04	532/.04	503/.04	307/.06	181/.06	37/.07	-	-	-	
	2S	1160	5.5	409/.01	221/.02	178/.02	-	-	-	-	-	-	
12	1/4	1750	16.7	1306/.09	1199/.12	1169/.12	992/.12	734/.12	576/.14	488/.14	412/.13	275/.14	
	2S	1160	12.8	866/.03	682/.04	613/.04	347/.04	235/.04	132/.05	-	-	-	
16	1/3	1750	18.8	2439/.26	2309/.27	2274/.27	2208/.18	1872/.34	1633/.36	1350/.38	1152/.42	876/.43	
	2S	1160	11.7	1617/.08	1404/.09	1342/.09	974/.10	683/.12	491/.14	307/.15	132/.16	-	
18	3/4	1750	20	4174/.52	4021/.59	3982/.60	3781/.64	3564/.65	3321/.72	3029/.72	2468/.76	1977/.83	
	2S	1160	10.9	2767/.15	2531/.19	2468/.19	2102/.21	1504/.22	1085/.27	626/.28	264/.30	-	
20	1/3	1750	19.4	3649/.31	3455/.34	3409/.34	3177/.41	2635/.44	2634/.44	2635/.44	2344/.49	-	
	2S	1160	10.1	2418/.09	2134/.12	2063/.12	1639/.14	1153/.16	787/.17	509/.19	-	-	
	1	1725	24	6008/.94	5788/1.01	5731/1.02	5431/1.06	5101/1.06	4734/1.13	4315/1.13	3835/1.17	2512/1.26	
	1 1/2	1725	40	6605/1.44	6383/1.44	6339/1.44	6061/1.44	5711/1.45	5279/1.36	4738/1.36	3885/1.26	2756/1.30	
24	1/2	1750	14.7	4131/.31	3961/.37	3920/.38	3705/.45	3387/.50	3063/.59	2669/.68	2314/.68	-	
	2S	1160	7.7	2738/.09	2488/.13	2403/.13	1898/.17	1400/.21	-	-	-	-	
	1	1750	18.4	5137/.37	4938/.43	4885/.45	4596/.53	4268/.63	3917/.67	3514/.76	2959/.92	2172/1.06	
	2S	1160	9.6	3405/.11	3083/.15	2989/.16	2459/.21	1700/.27	1196/.32	-	-	-	
30	1	1725	32	6655/.76	6416/.87	6354/.87	6033/.95	5681/.96	5278/.99	4775/.99	4118/1.02	2407/1.14	
	3/4	1140	37	6684/.62	6252/.70	6140/.71	5525/.72	4686/.74	3221/.79	2031/.85	1287/.91	98/1.07	
	1	1160	17.4	7464/.92	7015/.97	6898/.99	6267/1.01	5473/1.02	4052/1.08	2676/1.15	1820/1.19	-	
	1 1/2	1725	32	8897/1.48	8644/1.60	8579/1.62	8239/1.71	7870/1.74	7467/1.74	7020/1.80	6510/1.80	4703/1.80	
30	1/2	1140	20	8427/.59	7520/.63	7288/.63	5939/.63	4108/.61	1455/.55	-	-	-	
	1	1140	27	10635/1.15	9468/1.12	9328/1.12	8205/1.12	6718/1.13	4175/1.10	1397/1.20	-	-	
	1 1/2	1725	44	11570/1.68	11083/1.68	10956/1.68	10200/1.75	9323/1.74	8504/1.81	7625/1.74	6594/1.72	3905/1.67	
	2	1725	48	12415/1.89	11878/1.99	11723/2.01	10879/2.01	10141/2.01	9172/2.01	8172/2.01	7185/1.89	4705/1.84	

Performance shown is for wall ventilators for installation type A: Free inlet, Free outlet. The power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

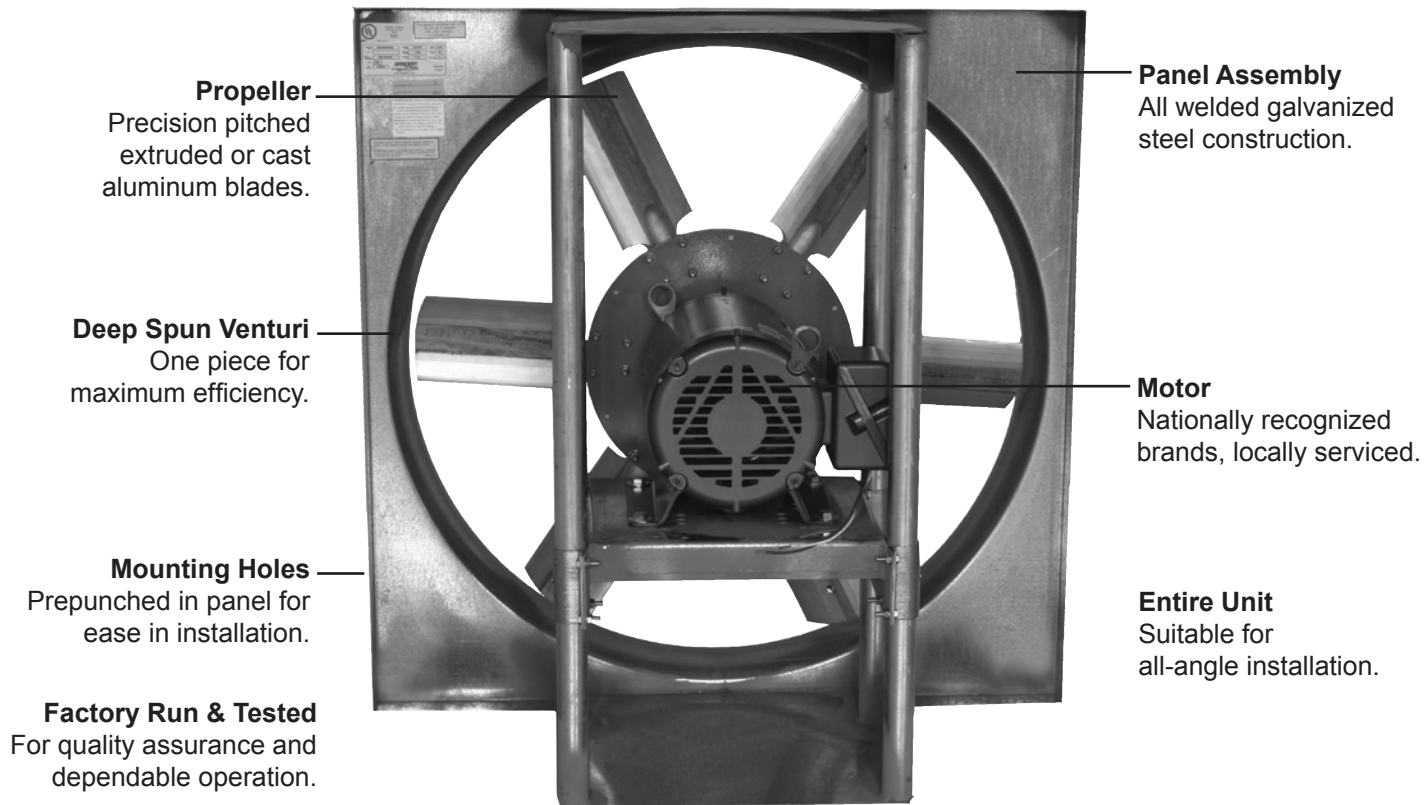
Sound ratings shown are loudness values in fan sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: Free inlet fan sone levels. For additional sound data and for selections at other static pressures, please refer to the Optimizer Selection Program.

Available motor RPM's may vary from table.

Supply performance is obtained by reversing the direction of the venturi.



MODEL DDE & DDS CONSTRUCTION FEATURES



Industry best 5 year fan housing warranty, 1 year motor warranty

Construction/Specification Checklist

Panel Assembly

- Galvanized steel, 14 gauge, G-90, sizes 54-60.
- Galvanized steel, 16 gauge, G-90, sizes 24-48.
- Precision spun orifice for smooth performance.
- Prepunched mounting holes for convenient installation.
- Welded schedule 40 galvanized steel pipe support structure.

Propeller

- Aluminum airfoil blades, extruded or cast.
- Mounted directly on motor shaft for maximum efficiency.
- Steel hub plate with taper lock bushing as standard.
- Statically balanced.

Motors

- Nationally recognized brands, locally serviced.
- Sealed ball bearings on larger fractionals.
- 1/3 hp motor is the smallest available for the DDE/DDS.
- Open drip-proof, totally enclosed and explosion proof options.
- Available 2 speed units in select formats.

Entire Fan Unit

- Suitable for all-angle installation.
- Completely assembled and factory tested prior to shipment.

All specifications are subject to change without notice unless approved in submittal by Soler & Palau.



PERFORMANCE

Model DDE (Exhaust) / DDS (Supply)

Model DDE/DDS	MOTOR		Sones @ 0" SP	CFM / BHP @ Static Pressure (INCHES W.G.)									
	HP	RPM		0	1/10	1/8	1/4	3/8	1/2	5/8	3/4	1	
24	1/3	1160	17.8	5600/0.37	4960/0.37	4800/0.37	3600/0.37	-	-	-	-	-	-
	1/2	1160	22	6600/0.60	6200/0.60	6100/0.60	5400/0.60	4300/0.60	-	-	-	-	-
	3/4	1160	20	7800/0.82	7240/0.82	7100/0.82	6300/0.82	5400/0.82	-	-	-	-	-
	1	1160	21	8700/1.09	8140/1.09	8000/1.09	7300/1.09	6300/1.09	4900/1.09	-	-	-	-
	1/2	1750	27	5900/0.55	5420/0.55	5300/0.55	4700/0.55	3900/0.55	3000/0.55	-	-	-	-
	3/4	1750	28	7000/0.81	6600/0.81	6500/0.81	5900/0.81	5300/0.81	4400/0.81	3500/0.81	-	-	-
	1	1750	32	8000/1.15	7600/1.15	7500/1.15	7000/1.15	6300/1.15	5500/1.15	4700/1.15	3700/1.15	-	-
	1 1/2	1750	35	9000/1.66	8760/1.66	8700/1.66	8300/1.66	7900/1.66	7400/1.66	6900/1.66	6200/1.66	-	-
	2	1750	35	10500/2.25	10180/2.25	10100/2.25	9600/2.25	9100/2.25	8600/2.25	8100/2.25	7400/2.25	5900/2.25	-
3	1750	37	12500/3.30	12100/3.30	12000/3.30	11500/3.30	11100/3.30	10500/3.30	10000/3.30	9300/3.30	7900/3.30	-	
30	1	870	19.9	11700/1.12	10700/1.12	10450/1.12	8900/1.12	6300/1.12	-	-	-	-	-
	1 1/2	870	24	14300/1.65	13300/1.65	13050/1.65	11400/1.65	8850/1.65	5550/1.65	-	-	-	-
	3/4	1160	25	9900/0.84	9020/0.84	8800/0.84	7500/0.84	5700/0.84	-	-	-	-	-
	1	1160	28	10600/1.16	10340/1.16	10054/1.16	9900/1.16	9478/1.16	9000/1.16	7900/1.16	6500/1.16	-	-
	1 1/2	1160	28	12800/1.67	12080/1.67	11900/1.67	10900/1.67	9800/1.67	8400/1.67	6700/1.67	-	-	-
	2	1160	29	14400/2.28	13680/2.28	13500/2.28	12400/2.28	11300/2.28	9800/2.28	7800/2.28	6000/2.28	-	-
	3	1160	36	17300/3.37	16660/3.37	16500/3.37	15600/3.37	14700/3.37	13000/3.37	11200/3.37	8600/3.37	-	-
	2	1750	44	13800/2.27	13160/2.27	13000/2.27	12200/2.27	11300/2.27	10400/2.27	-	-	-	-
	3	1750	55	14200/3.38	13800/3.38	13700/3.38	13200/3.38	12700/3.38	12100/3.38	11500/3.38	10700/3.38	9300/3.38	-
36	1	870	25	13000/1.14	12040/1.14	11800/1.14	10200/1.14	8200/1.14	6000/1.14	-	-	-	-
	1 1/2	870	26	16300/1.70	15180/1.70	14900/1.70	13200/1.70	11000/1.70	7900/1.70	-	-	-	-
	2	870	27	18500/2.23	17140/2.23	16800/2.23	15000/2.23	12900/2.23	9600/2.23	-	-	-	-
	3	870	32	21100/3.36	20060/3.36	19800/3.36	18100/3.36	15800/3.36	12800/3.36	9600/3.36	8100/3.36	-	-
	3/4	1160	30	11500/0.85	10220/0.85	9900/0.85	8100/0.85	6200/0.85	-	-	-	-	-
	1	1160	31	13500/1.18	12460/1.18	12200/1.18	10700/1.18	8800/1.18	6500/1.18	-	-	-	-
	1 1/2	1160	33	15900/1.73	14780/1.73	14500/1.73	13000/1.73	11300/1.73	9200/1.73	-	-	-	-
	2	1160	39	15700/2.25	14980/2.25	14800/2.25	13800/2.25	12800/2.25	11600/2.25	10200/2.25	8500/2.25	-	-
	3	1160	40	20700/3.39	19900/3.39	19700/3.39	18600/3.39	17300/3.39	15900/3.39	14300/3.39	12300/3.39	-	-
42	5	1160	42	25100/5.49	24200/5.49	24000/5.49	22900/5.49	21700/5.49	20300/5.49	18700/5.49	16700/5.49	-	-
	7 1/2	1160	53	30500/8.15	29540/8.15	29300/8.15	28100/8.15	26700/8.15	25200/8.15	23400/8.15	21400/8.15	15500/8.15	-
	3	1750	58	18000/3.28	17200/3.28	17000/3.28	16000/3.28	15000/3.28	13900/3.28	12800/3.28	11600/3.28	9100/3.28	-
	5	1750	81	18600/5.42	18280/5.42	18200/5.42	17800/5.42	17300/5.42	16800/5.42	16200/5.42	15700/5.42	14500/5.42	-
	7 1/2	1750	75	27000/8.25	26360/8.25	26200/8.25	25400/8.25	24600/8.25	23600/8.25	22500/8.25	21500/8.25	19200/8.25	-
	1 1/2	870	36	17500/1.72	16140/1.72	15800/1.72	14100/1.72	12000/1.72	9500/1.72	7500/1.72	-	-	-
	2	870	36	19800/2.22	18520/2.22	18200/2.22	16200/2.22	14000/2.22	11000/2.22	8800/2.22	7200/2.22	-	-
	3	870	36	24500/3.26	22980/3.26	22600/3.26	20600/3.26	18000/3.26	14800/3.26	11200/3.26	9200/3.26	-	-
	5	870	40	31300/5.53	29780/5.53	29400/5.53	27300/5.53	24800/5.53	21800/5.53	17000/5.53	13200/5.53	-	-
48	3	1160	60	20500/3.30	19700/3.30	19500/3.30	18500/3.30	17300/3.30	15900/3.30	14400/3.30	13000/3.30	9700/3.30	-
	5	1160	61	28000/5.45	27200/5.45	27000/5.45	25800/5.45	24500/5.45	22800/5.45	20900/5.45	18900/5.45	13700/5.45	-
	7 1/2	1160	62	34500/8.26	33540/8.26	33300/8.26	32000/8.26	30600/8.26	28800/8.26	26800/8.26	24700/8.26	19400/8.26	-
	5	1750	89	26000/5.41	24960/5.41	24700/5.41	23500/5.41	22100/5.41	20700/5.41	19300/5.41	17900/5.41	-	-
	7 1/2	1750	94	32500/8.25	31700/8.25	31500/8.25	30300/8.25	29140/8.25	27800/8.25	26500/8.25	25200/8.25	-	-
	1 1/2	870	36	22800/1.68	20560/1.68	20000/1.68	16600/1.68	12100/1.68	-	-	-	-	-
	2	870	38	25900/2.25	23740/2.25	23200/2.25	19800/2.25	15800/2.25	-	-	-	-	-
	3	870	48	27000/3.37	25640/3.37	25300/3.37	23400/3.37	21100/3.37	18400/3.37	15200/3.37	-	-	-
	5	870	48	36000/5.57	34320/5.57	33900/5.57	31600/5.57	29000/5.57	25800/5.57	21900/5.57	17800/5.57	-	-
54	7 1/2	870	51	42100/8.14	40420/8.14	40000/8.14	37600/8.14	34900/8.14	31800/8.14	28000/8.14	22500/8.14	-	-
	10	870	63	46600/11.03	44920/11.03	44500/11.03	42200/11.03	39500/11.03	36100/11.03	32300/11.03	27500/11.03	20500/11.03	-
	3	1160	59	27000/3.29	25320/3.29	24900/3.29	22600/3.29	19800/3.29	17000/3.29	13800/3.29	11100/3.29	-	-
	5	1160	64	34700/5.54	33180/5.54	32800/5.54	30700/5.54	28400/5.54	26000/5.54	22900/5.54	19300/5.54	-	-
	7 1/2	1160	76	40500/8.12	38900/8.12	38500/8.12	36500/8.12	34000/8.12	31500/8.12	28700/8.12	25500/8.12	-	-
	10	1160	81	43400/10.81	42280/10.81	42000/10.81	40500/10.81	39000/10.81	37200/10.81	35200/10.81	33000/10.81	28000/10.81	-
	5	1750	75	37300/5.41	35220/5.41	34700/5.41	32000/5.41	29200/5.41	26100/5.41	23000/5.41	19600/5.41	-	-
	7 1/2	1160	79	46000/8.21	44320/8.21	43900/8.21	41700/8.21	39200/8.21	36400/8.21	33000/8.21	29500/8.21	-	-
	10	1160	86	51600/11.00	49920/11.00	49500/11.00	47300/11.00	44800/11.00	42200/11.00	39300/11.00	36200/11.00	-	-
60	7 1/2	870	77	49000/8.25	47000/8.25	46500/8.25	43900/8.25	41100/8.25	37700/8.25	34200/8.25	30500/8.25	22700/8.25	-
	10	870	77	55800/10.33	53800/10.33	53300/10.33	50500/10.33	47300/10.33	43600/10.33	39800/10.33	35700/10.33	27000/10.33	-

Performance shown is for wall ventilators for installation type A: Free inlet, Free outlet. The power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

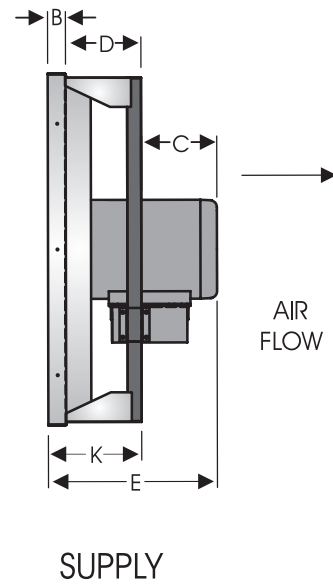
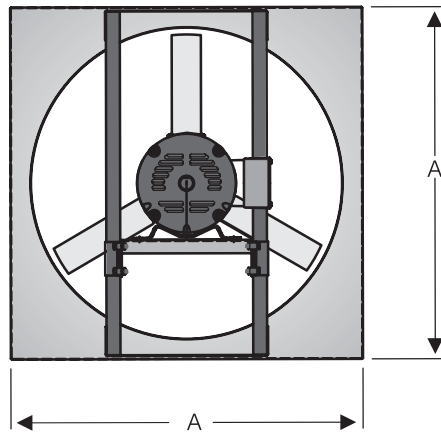
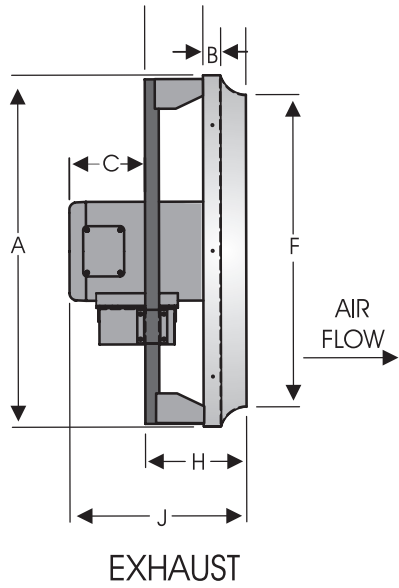
Sound ratings shown are loudness values in fan sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: Free inlet fan sone levels.

For additional sound data and for selections at other static pressures, please refer to the Optimizer Selection Program. Available motor RPM's may vary from table. Supply performance is obtained by reversing the direction of the venturi.



DIMENSIONS

Model DDE & DDS



DDE/ DDS Size	Dimensions (in.)										
	A	B	C*	D	E*	F	G	H	I	J	K
24	30	2	11	9	21	25	3	9	4	20	11
30	36	2	11	9	21	31	3	9	4	20	11
36	42	2	11	9	21	37	3	9	4	20	11
42	48	2	11	9	21	43	3	9	4	20	11
48	54	2	12	10	23	49-1/4	4	10	4	22	12
54	60	2	13	11	25	55-1/4	5	11	4	24	13
60	66	2	13	11	25	61-1/4	5	11	4	24	13

- A. Outside dimension of square panel.
 - B. Width of flange.
 - C. Depth of motor beyond support structure.*
 - D. Depth of support structure - supply.
 - E. Depth of fan - supply. *
 - F. Diameter of venturi.
 - G. Depth of venturi.
 - H. Depth of panel and support structure - exhaust.
 - I. Depth of support structure - exhaust.
 - J. Depth of fan - exhaust.*
 - K. Depth of panel and support structure - supply.
- * Varies with motor selection**

MODEL WA

COMPACT WALL AXIAL FAN



MODEL FEATURES

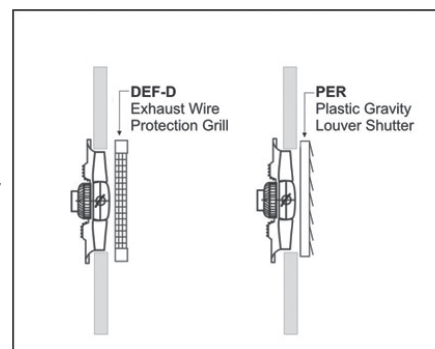
- Exhaust air up to 4,520 CFM with static pressure capabilities to 1/2" w.g.
- Constructed from die cast aluminum and finished in a black polyester paint coating
- All models include asynchronous induction capacitor run and start motors
- Low profile design
- Class F motor insulation

MODEL OVERVIEW

The S&P COMPACT WALL as the name suggests, an extremely compact design created by the combination of an external rotor motor matched with a direct drive wrap around an impeller hub. This very low profile design optimizes airflow performance while minimizing noise generation.

The S&P COMPACT WALL AXIAL FANS are designed to be installed directly into side walls, ceilings and panels in order to exhaust or supply air to the surrounding environments.

All COMPACT WALL AXIAL FANS include a one piece bell mouth inlet and mounting plate manufactured from high grade galvanized steel. The motor and fan impeller assembly are firmly supported within this mounting plate by a strong steel support frame that includes an integrated finger guard on the inlet side. All units are supplied with motors prewired to a wiring junction box located on the back of the motor hub for easy wiring access. This terminal box protects all wiring connections against the ingress of dust and moisture. The entire assembly is protected by a two stage primer and a tough corrosion and UV resistant polyester paint finish.



5 year fan housing and motor warranty



CONSTRUCTION/SPECIFICATION CHECKLIST

Motor

- All models include asynchronous induction capacitor run and start motors.
- Constructed from die cast aluminum and finished in a black polyester paint coating.
- 100% Speed controllable.
- Totally enclosed IP/65 protection.
- Class F insulation.
- Suitable working temperatures -40°C (-40°F) up to 60°C (140°F).
- All models include a Safety Auto Reset Thermal Overload Protection.

Terminal Box

- Manufactured from high impact grade aluminum.
- IP65 protected.

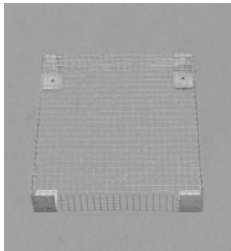
Wheel / Impeller

- Manufactured from glass filled UV resistant polyamide.
- Special Order: Die cast aluminum. Please inquire.
- Corrosion and weather resistant.

ACCESSORIES



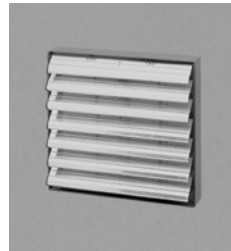
SC 15
 Variable speed control



DEF-D
 Wire protection guard



PER
 Plastic gravity louver shutter

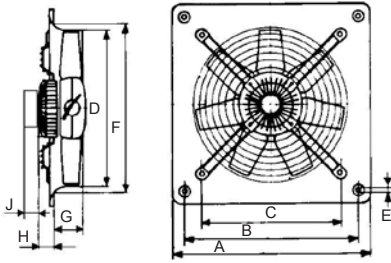


PER-CN
 Aluminum louver back draft shutter



PERFORMANCE/DIMENSIONS

Dimensions in inches/mm



Model	A	B	C	D	E	F	G	H	J	Weight lbs(kgs)
WA 12	15 ^{3/4} 400	12 ^{15/16} 330	11 280	12 ^{7/16} 315	3/8 10	12 ^{15/16} 329	2 ^{7/8} 73	1 ^{1/4} 32	2 ^{1/2} 64	15 7
WA 16	19 ^{11/16} 500	16 ^{5/8} 420	13 ^{15/16} 355	15 ^{3/4} 400	3/8 10	16 ^{5/8} 422	3 ^{1/16} 78	1 ^{5/8} 41	2 ^{1/2} 64	20 9
WA 18	22 ^{1/16} 560	18 ^{3/4} 480	15 ^{3/4} 400	17 ^{3/4} 450	3/8 10	18 ^{3/4} 476	3 ^{3/4} 95	1 ^{5/8} 41	2 ^{1/2} 64	29 13
WA 20	24 ^{13/16} 630	21 ^{1/8} 537	17 ^{3/4} 450	19 ^{11/16} 500	3/8 10	21 ^{1/8} 536	3 ^{7/8} 98	1 ^{3/4} 44	2 ^{1/2} 64	34 15

Air & Sound Performance

Model	*Technical Specification	Input Watts	Peak BHP	RPM	CFM v Static Pressure (SP) Ins. WG										Sones
					0	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4	0.5	
WA 12	HCGB/4-12/G-A	132	-	1500	1260	1200	1130	1040	900	-	-	-	-	-	9.9
WA 16	HCGB/4-16/G-A	310	0.26	1500	2430	2350	2260	2160	2050	1840	1500	-	-	-	18.9
WA 18	HCGB/4-18/G-A	550	0.50	1465	3690	3600	3510	3410	3330	3240	3140	3020	2900	2500	19.7
WA 20	HCGB/4-20/G-A	750	0.65	1500	4520	4440	4340	4220	4100	3990	3870	3740	3600	3160	28

Performance certified is for installation type A: free inlet, free outlet.

*Technical Specifications: Example

HCGB/ 4-16/ G-A
 ↓ ↓ ↓ ↓ ↓ ↓
 1 2 3 4 5 6 7

- 1-HC: COMPACT WALL AXIAL FAN reference.
- 2-G: Plastic adjustable impeller (supplied as standard).
 B: Aluminum adjustable impeller (please inquire).
- 3-B: Single Phase Motor. 120 V 60 Hz.
 T: Three Phase Motor. 220/460 V 60 Hz (please inquire).
- 5-16: Speed. Number of poles.
- 6-A: Nominal blade diameter in inches.
 Air direction.
 Form A = air over motor-impeller.
 Form B = air over-impeller motor.



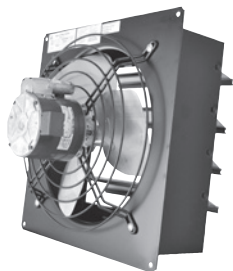
Soler & Palau certifies that the WALL AXIAL FANS shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and AMCA publication 311 and comply with the requirements to the AMCA Certified Ratings Program.

Performance is shown for Soler & Palau WALL AXIAL FANS. Speed (rpm) shown is nominal. Performance is based on actual speed of the test. Performance ratings include the effects of finger guards in the airstream. The sound ratings are loudness values in fan sones at 5ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are shown are for installation type A: free inlet, free outlet.



MODEL S FAN

WALL EXHAUST SHUTTER FAN



MODEL FEATURES

- Totally enclosed, ball bearing motor with thermal auto reset
- One piece spun Venturi for maximum efficiency
- Quality engineered and power coated metal wall housing
- Low leakage nylon shutter seals
- Completely assembled & ready to install

MODEL OVERVIEW

The S&P Model S wall exhaust shutter fan is available in size 8" to 36". These fans ship completely assembled and ready to install for use in agricultural and commercial applications.

CONSTRUCTION/SPECIFICATION CHECKLIST

Housing and Motor

- All models include totally enclosed, ball bearing motor with thermal auto reset.
- Power coated metal wall housing
- Efficiently designed and balanced axial blades.
- One piece spun venturi for maximum efficiency
- Extruded aluminum back draft shutters
- Low leakage nylon shutter seals

ACCESSORIES

- Optional OSHA Guards

1 year fan housing and motor warranty

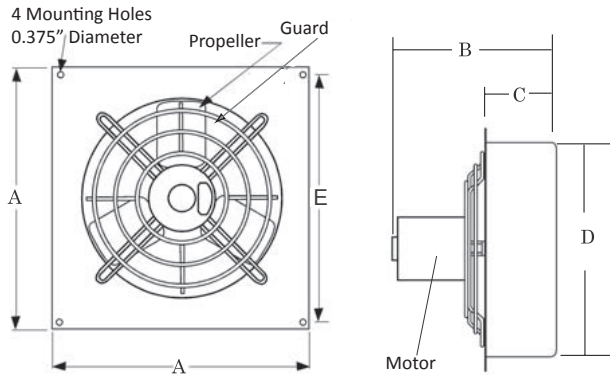


MODEL S
WALL EXHAUST SHUTTER FAN



PERFORMANCE/DIMENSIONS

Dimensions in inches/mm



Size	A	B	C	D	E
8"	13 ¹ / ₄ "	10"	4"	10 ³ / ₄ "	12
10"	15 ¹ / ₄ "	10"	4"	12 ³ / ₄ "	14
12"	17 ¹ / ₄ "	14"	6"	14 ³ / ₄ "	16
14"	19 ¹ / ₄ "	14"	6"	16 ³ / ₄ "	18
16"	21 ¹ / ₄ "	14"	6"	18 ³ / ₄ "	20
18"	23 ¹ / ₄ "	15"	6"	20 ³ / ₄ "	22
20"	25 ¹ / ₄ "	16"	6"	22 ³ / ₄ "	24
24"	29 ¹ / ₄ "	16"	6"	26 ³ / ₄ "	28
30"	35 ¹ / ₄ "	19"	6"	32 ³ / ₄ "	36
36"	41 ¹ / ₄ "	16"	6"	38 ³ / ₄ "	40

Performance & Specifications

Model	Blade Diameter	RPM	HP	VOLTS	Amps	0.0"	0.10"	0.125"	0.25"	Sound dbA	Weight (lbs)
S8-2	8"	1600/1350	0.05	120	.95/.45	400/330	320/260	280/230	180/140	48/43	12.00
S10-2	10"	1600/1350	0.05	120	1.2/0.7	690/580	590/460	570/390	550/340	56/50	13.00
S12-1	12"	1800	0.25	120	3.50	1680	1600	1575	1460	63	28.00
S12-V	12"	1640	0.25	120	2.20	1650	1560	1525	1400	60	32.00
S14-1	14"	1800	0.25	120	3.60	2240	2132	2045	1957	67	30.00
S14-V	14"	1640	0.25	120	2.40	2040	1942	1863	1782	61	35.00
S16-1	16"	1800	0.25	120	3.70	2450	2338	2276	2120	68	33.00
S16-V	16"	1640	0.25	120	2.60	2370	2270	2210	2063	63	36.00
S18-1	18"	1700	0.33	120	4.80	3200	3090	3040	2920	73	37.00
S18-V	18"	1640	0.33	120	3.70	3150	3050	2980	2860	74	45.00
S20-1	20"	1700	0.33	120	4.80	3420	3220	3170	3020	77	41.00
S20-V	20"	1640	0.33	120	3.70	3370	3180	3110	2960	76	47.300
S24-1	24"	1100	0.33	120	4.30	5300	5050	4950	4700	72	53.00
S24-V	24"	1100	0.50	120	4.20	5500	5310	5180	4937	74	62.00
S30-1	30"	1100	0.05	120	4.60	8000	7000	6000	5000	82	72.00
S36-1	36"	850	0.50	120	6.00	12000	11000	10500	9500	72	88.00

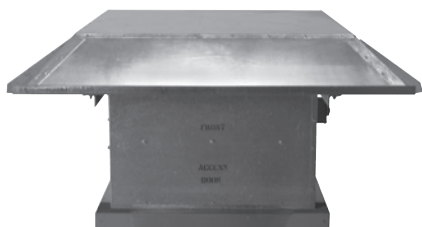
Propeller Roof Ventilators Index

MODEL HRSB/HRSD	60
MODEL HREB-C/HRED-C	69
MODEL UBS	77
MODEL UBSRD	71
MODEL UBSRD-HT/ UBSRD-HT1	84
MODEL UBB/UBX	88
MODEL UBRD	95
MODEL TUB	99
MODEL TUB-HT	105



MODELS HRSB & HRSD

HOODED PROPELLER ROOF SUPPLY FANS



MODEL FEATURES

- Supply air to over 56,000 CFM up to 3/4" w.g.
- Belt drives permit easy performance adjustments when needed
- Direct drive units have low sound levels and quiet operation.
- Filtered models available
- cULus 705 Listed (HRSB only)

MODEL OPTIONS

MODEL NAME	DESCRIPTION
HRSB	Belt Drive Hooded Propeller Roof Supply Fan
HRSB-F	Belt Drive Hooded Propeller Roof Filtered Supply Fan
HRSD	Direct Drive Hooded Propeller Roof Supply Fan
HRSD-F	Direct Drive Hooded Propeller Roof Filtered Supply Fan

MODEL OVERVIEW

Models HRSB and HRSD are roof mounted supply fans rated from 4,000 to over 56,000 CFM and to 3/4" static pressure. They are used in a variety of commercial and industrial operations such as warehouses manufacturing plants, equipment and machinery rooms, assembly plants and similar facilities to provide fresh outside air for personal comfort and to reduce negative pressure caused by exhaust systems.

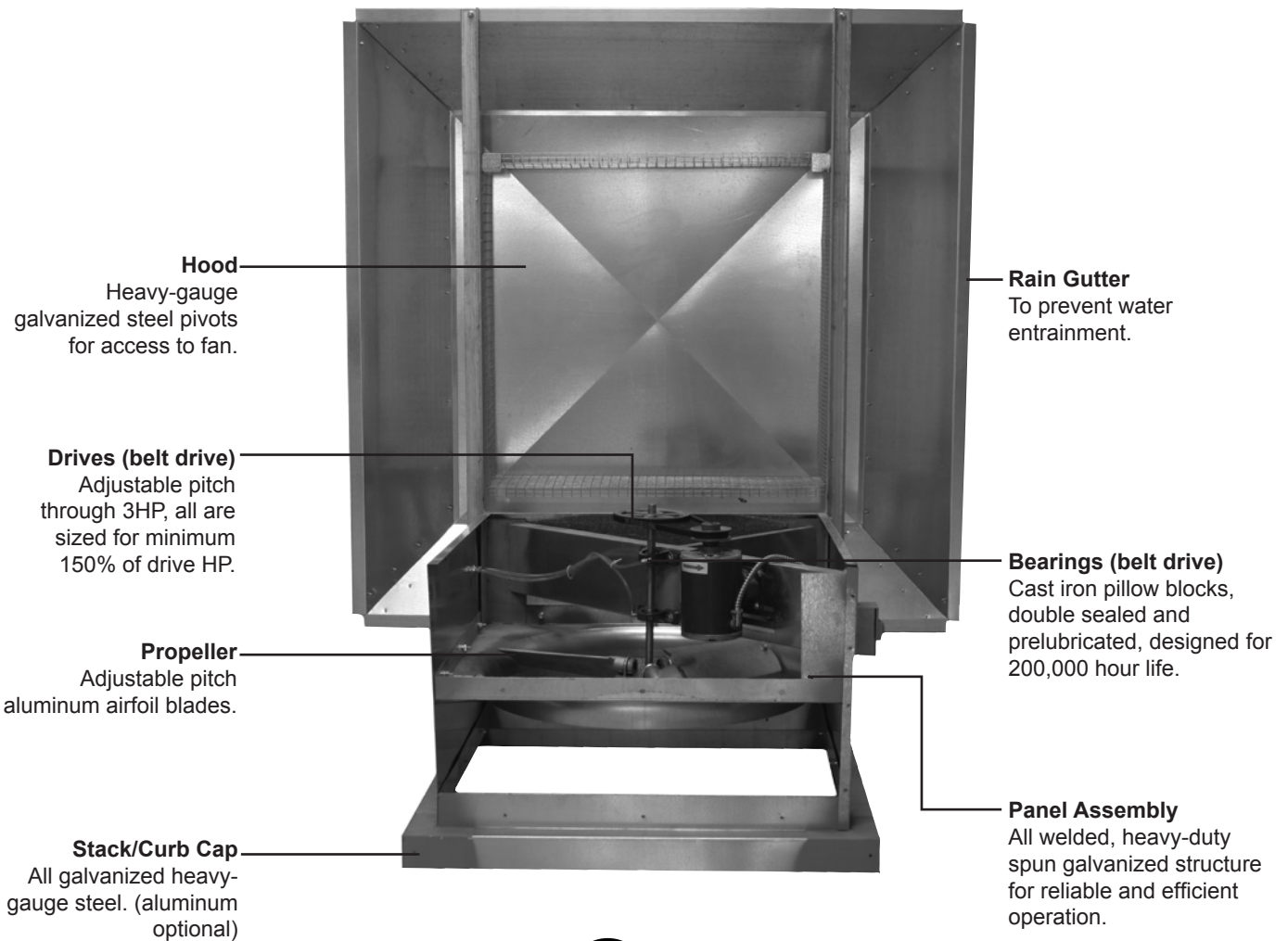
Models HRSB-F and HRSD-F include permanent re-cleanable aluminum filters for application where filtered supply air is required. Performance ratings include the effect of filters on air delivery.

Belt drive units usually operate more quietly and afford easier performance adjustments, while direct drive units require less maintenance.

1 year fan housing warranty, 1 year motor warranty



CONSTRUCTION FEATURES AND OPTIONS



Hood

Heavy-gauge galvanized steel pivots for access to fan.

Rain Gutter

To prevent water entrainment.

Drives (belt drive)

Adjustable pitch through 3HP, all are sized for minimum 150% of drive HP.

Bearings (belt drive)

Cast iron pillow blocks, double sealed and prelubricated, designed for 200,000 hour life.

Propeller

Adjustable pitch aluminum airfoil blades.

Panel Assembly

All welded, heavy-duty spun galvanized structure for reliable and efficient operation.

Stack/Curb Cap

All galvanized heavy-gauge steel. (aluminum optional)



UL Standard 705

Listing assures electrical reliability.
 Not available on HRSD units.

Factory Run & Tested

Assures dependable operation.



Construction/Specification Checklist

Panel Assembly

- Heavy-gauge G90 galvanized steel panel.
- One piece spun venturi for maximum efficiency.
- All welded support structure of schedule 40 galvanized pipe.
- Motor/bearing plates of minimum 10 gauge galvanized steel.
- All welds coated with cold galvanized paint.

Hood

- All heavy-gauge G90 galvanized steel.
- Low silhouette design for pleasing appearance.
- Unique design rain gutter minimizes water entrainment.
- Gutter provides additional hood strength and rigidity.

Base

- All galvanized construction for corrosion resistance.
- Secures fan unit to roof curb.
- Elevates fan unit above curb for ease of damper installation.

Propeller

- Two, three, four or six airfoil aluminum blades.
- Steel hub plate with steel taper lock busing.
- Hub finished with corrosion resistant epoxy paint.
- Adjustable pitch for optimum efficiency.

Drives (belt drive models)

- Sized for minimum 150% of drive horsepower.
- Single belt adjustable pitch sheaves through 3HP.
- Two belt fixed pitch sheaves through 10HP.
- Adjustable pitch sheaves are optional above 3HP.
- Adjustable tension rods for belt adjustment.
- Nonstatic oil resistant v-belts.
- Keyed, turned, ground and polished shafts.

Bearings

- Bearings designed for minimum 200,000 hour life, L50.
- Cast iron self-aligning pillow block ball bearings.
- Bearings are sealed, prelubricated with relube fittings.

Motors

- Brands are nationally recognized and locally serviced.
- Open drip-proof construction is standard.
- High-efficiency, explosion proof, totally enclosed, and corrosion duty motors can be specified.



Options/Accessories

Filters: Permanent cleanable aluminum mesh 2" filters installed in hood opening. See pages 64 and 65 for certified performance data with filters in place.

Roof Curb: Prefabricated heavy-gauge galvanized steel, Clip Lock, 14" high (other heights are also available) with 1-1/2" wood nailer. Assures perfect fit of unit to roof opening. Options include burglar bars, single or double pitch construction and hinged curbs for easy duct access. Welded & custom curbs available.

Disconnect Switch: Nonfused safety disconnects are available for all motor sizes in rain-tight or open enclosures. Explosion proof, Nema 4 and 4X are also available.

Motor Operated Damper: Motor operated for positive closure against backdraft.

Automatic Damper: Automatic (counter-balanced) damper for ease in installation.



Bird Screen: 1/2" x 1" wire mesh guard prevents birds and other objects from entering fan.

Fiberglass Free Insulation: Hood crown is covered with 1/2" high performance and ecologically friendly fiberglass free insulation only, to reduce fan sound and condensation.

Extended Grease Lines: Extended copper grease lines allow motor and/or fan bearings to be relubricated from the exterior.

Motor Safety Chain: Secures motor to fan unit to prevent motor accidentally falling during maintenance.

Aluminum Construction: Optional aluminum construction available for external fan components (hood and base) only.

Special Coatings: For protective and decorative purposes. Available coatings include: Synthetic Resin, Epoxy, and Heresite (air-dried phenolic). Contact your representative or the factory for more information on available coatings and colors.



PERFORMANCE DATA - HRSB BELT DRIVE

Model HRSB	CFM @ Static Pressure							HP	RPM	No. of Blades	Max BHP	Sones @ 5 ft.
	0	1/8	1/4	3/8	1/2	5/8	3/4					
24	4724	4043	2979	-	-	-	-	1/3	930	3	.38	15
	5444	4844	4022	3000	-	-	-	1/2	1060	4	.58	19
	6171	5648	5049	4244	3315	-	-	3/4	1215	3	.85	24
	6781	6302	5841	5121	4374	3493	-	1	1335	3	1.13	28
	7771	7354	6946	6467	5830	5189	4436	1 1/2	1530	3	1.70	34
	8533	8153	7777	7412	6881	6298	5715	2	1680	4	2.25	41
30	7099	5557	3085	-	-	-	-	1/3	660	3	.37	13
	8194	6922	5008	-	-	-	-	1/2	775	3	.58	16
	9304	8246	6822	4979	-	-	-	3/4	865	3	.85	21
	10310	9369	8175	6585	-	-	-	1	950	3	1.15	24
	11724	10915	9991	8841	7402	-	-	1 1/2	1090	3	1.70	30
	12908	12173	11373	10448	9266	7946	-	2	1200	3	2.27	36
	14669	13780	12876	11851	10820	9824	8804	3	1370	3	3.44	45
36	9903	6558	-	-	-	-	-	1/3	495	3	.38	11
	11381	8600	-	-	-	-	-	1/2	565	3	.58	14
	12993	10696	7433	-	-	-	-	3/4	645	3	.85	18
	14302	12333	9637	-	-	-	-	1	710	3	1.14	21
	16417	14783	12589	10000	-	-	-	1 1/2	815	3	1.73	27
	18029	16541	14686	12604	-	-	-	2	895	3	2.29	31
	20647	19348	17959	16131	14300	11940	-	3	1025	3	3.44	39
42	14503	9169	-	-	-	-	-	1/2	445	3	.58	13
	16525	12079	-	-	-	-	-	3/4	510	3	.85	16
	18251	14350	-	-	-	-	-	1	560	3	1.15	19
	20858	17815	13510	-	-	-	-	1 1/2	640	3	1.72	24
	22977	20268	16414	12245	-	-	-	2	705	3	2.30	35
	26236	23863	20873	17540	13601	-	-	3	805	3	3.43	46
48	19542	11487	-	-	-	-	-	3/4	405	3	.86	14
	21742	14137	-	-	-	-	-	1	445	3	1.14	17
	24493	17864	10164	-	-	-	-	1 1/2	500	3	1.72	21
	27161	22026	15327	-	-	-	-	2	560	3	2.30	25
	30881	26694	20675	15035	-	-	-	3	640	3	3.40	30
	36671	33145	28874	23792	19200	-	-	5	760	3	5.71	40
	46322	38899	35818	31144	26982	23220	-	7 1/2	870	3	8.55	53
	49979	43530	40739	37344	32782	29339	25924	10	960	3	11.49	64
54	29628	23717	14745	-	-	-	-	2	465	3	2.09	23
	33769	29093	22202	-	-	-	-	3	530	3	3.10	28
	39709	35990	31085	25359	-	-	-	5	630	3	4.99	37
	45382	42128	38469	33640	28551	21662	-	7 1/2	720	3	7.47	47
	50109	47162	44215	40031	35603	30935	-	10	795	3	10.07	58
60	30739	25920	-	-	-	-	-	2	390	3	2.02	20
	35284	31586	23994	-	-	-	-	3	450	3	3.05	26
	41557	38758	34372	-	-	-	-	5	530	3	4.99	35
	47830	45398	42206	37327	29300	-	-	7 1/2	610	3	7.59	44
	52534	50320	47771	44348	38720	-	-	10	670	3	10.07	52

Performance shown is for Models HRSB and HRSD without inlet or outlet ducts.

Brake horsepower does not include drive losses.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301 @ free air. Values shown are installation Type A, free inlet fan sone levels.



UL Standard 705



PERFORMANCE DATA - HRSD DIRECT DRIVE

Model HRSD	CFM @ Static Pressure							HP	RPM	No. of Blades	Max BHP	Sones @ 5 ft.
	0	1/8	1/4	3/8	1/2	5/8	3/4					
24	4645	4210	3779	3286	2509	-	-	1/2	870	3	.57	17
	4455	3793	2703	-	-	-	-	1/3	1160	2	.38	17
	5433	4766	3747	-	-	-	-	1/2	1160	2	.56	19
	6336	5750	5077	4202	3203	-	-	3/4	1160	3	.86	21
	6756	6091	5460	4730	3978	3168	-	1	1160	4	1.13	22
	6232	5838	5348	4705	3942	3175	-	1	1750	2	1.14	30
	7709	7308	6880	6322	5619	4786	-	1 1/2	1750	2	1.71	34
	8646	8212	7722	7157	6486	5650	-	2	1750	2	2.26	38
	9447	9023	8599	8208	7811	7340	6917	3	1750	4	3.34	42
30	9272	8232	6830	5009	-	-	-	3/4	870	3	.84	19
	10276	9223	8132	6732	5191	-	-	1	870	4	1.13	29
	8691	7744	6428	4459	-	-	-	3/4	1160	2	.85	23
	10150	9275	8152	6209	-	-	-	1	1160	2	1.14	25
	11973	11016	9766	8085	5714	-	-	1 1/2	1160	2	1.71	29
	13020	12213	11322	10281	9004	7572	6106	2	1160	3	2.28	33
	11269	10688	9930	9101	7924	6719	5504	2	1750	2	2.30	43
	14249	13723	13109	12374	11661	10595	9225	3	1750	2	3.41	47
	17790	17198	16557	15818	14918	14219	13147	5	1750	2	5.65	58
36	12436	10693	7806	-	-	-	-	3/4	870	2	.85	21
	14185	12501	10031	-	-	-	-	1	870	2	1.13	23
	16237	14844	13175	11021	8499	-	-	1 1/2	870	3	1.73	26
	18084	16439	14310	11982	-	-	-	2	870	3	2.34	29
	15289	14160	12700	10280	-	-	-	1 1/2	1160	2	1.73	32
	17594	16478	14962	13317	10332	-	-	2	1160	2	2.29	33
	20753	19552	18052	16345	13852	-	-	3	1160	2	3.41	37
	24253	23000	21746	20165	18307	16643	14526	5	1160	3	5.66	49
	22388	21666	20886	19790	18910	17717	16129	5	1750	2	5.70	65
27417	26691	25942	25145	24055	23018	22187	7 1/2	1750	2	8.46	70	
42	15924	13504	9568	-	-	-	-	1	870	2	1.13	27
	20258	18236	15266	10310	-	-	-	1 1/2	870	2	1.74	28
	22642	20590	17805	-	-	-	-	2	870	2	2.25	29
	26128	23792	20453	15603	-	-	-	3	870	2	3.43	35
	18942	17133	14621	11562	7988	-	-	2	1160	2	2.27	43
	24423	22947	21061	18816	15600	-	-	3	1160	2	3.34	43
	30979	29471	27836	25605	23318	19844	15452	5	1160	2	5.71	48
	21071	19517	17487	15477	13897	11833	-	5	1750	2	5.72	92
	30329	29285	28177	26703	25307	23501	21555	7 1/2	1750	2	8.49	91
48	19172	14905	-	-	-	-	-	1	680	2	1.13	23
	23378	20013	13975	-	-	-	-	1 1/2	680	2	1.70	24
	26407	22763	16577	-	-	-	-	2	680	2	2.29	26
	24151	21396	17029	-	-	-	-	2	870	2	2.32	34
	29404	26778	23214	18540	-	-	-	3	870	2	3.40	35
	35765	32909	29547	24033	18298	-	-	5	870	2	5.71	41
	41979	38899	35818	31144	26982	23220	18390	7 1/2	870	2	8.55	49
	32705	30685	28585	25121	21863	17961	-	5	1160	2	5.64	57
	40052	38113	36090	33945	30299	26778	23119	7 1/2	1160	2	8.46	59
45047	43029	40906	38618	35611	31538	27579	10	1160	2	11.40	64	
54	43139	40158	37454	33863	29948	26098	20042	7 1/2	1160	2	7.70	71
	50109	47343	44544	42270	38346	34362	30282	10	1160	2	10.02	72

Performance shown is for Models HRSB and HRSD without inlet or outlet ducts.

Brake horsepower does not include drive losses.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301 @ free air. Values shown are installation Type A, free inlet fan sone levels.



PERFORMANCE DATA - HRSB-F BELT DRIVE WITH FILTERS

Model HRSB-F	CFM @ Static Pressure							HP	RPM	No. of Blades	Max BHP	Sones @ 5 ft.
	0	1/8	1/4	3/8	1/2	5/8	3/4					
24	4327	3650	2716	-	-	-	-	1/3	930	3	.381	15
	4984	4430	3645	2754	-	-	-	1/2	1060	3	.575	19
	5653	5211	4555	3863	3042	-	-	3/4	1215	3	.848	24
	6277	5891	5344	4698	4052	3270	-	1	1335	3	1.155	28
	7194	6857	6434	5909	5352	4797	4153	1 1/2	1530	3	1.738	34
	7899	7592	7244	6807	6287	5789	5282	2	1680	3	2.300	41
30	7242	6003	4432	-	-	-	-	1/2	755	3	.582	16
	8226	7196	5894	4445	-	-	-	3/4	865	3	.850	21
	9034	8128	6988	5739	4244	-	-	1	950	3	1.134	24
	10366	9599	8675	7624	6530	5257	-	1 1/2	1090	3	1.713	30
	11412	10715	9917	9009	8027	7023	5867	2	1200	3	2.283	36
	13028	12418	11782	11024	10211	9350	8483	3	1370	3	3.398	45
36	9637	7192	4033	-	-	-	-	1/2	565	3	.579	14
	11002	8881	6416	-	-	-	-	3/4	645	3	.856	18
	12110	10205	8056	5552	-	-	-	1	710	3	1.147	21
	13901	12276	10515	8501	6284	-	-	1 1/2	815	3	1.737	27
	15266	13792	12203	10056	8620	6434	-	2	895	3	2.295	31
	17483	16196	14851	13452	11915	10281	8550	3	1025	3	3.457	39
42	13841	10120	5578	-	-	-	-	3/4	510	3	.868	16
	15198	11764	8009	-	-	-	-	1	560	3	1.147	19
	17369	14370	11270	7653	-	-	-	1 1/2	640	3	1.720	24
	19133	16415	13766	10577	-	-	-	2	705	3	2.296	35
	21846	19467	17070	14716	11851	-	-	3	805	3	3.415	46
48	17949	12146	-	-	-	-	-	1	445	3	1.152	17
	20571	15261	9820	-	-	-	-	1 1/2	510	3	1.734	21
	22587	17713	12771	-	-	-	-	2	560	3	2.295	25
	25814	21489	17701	12978	-	-	-	3	640	3	3.428	30
	30654	27000	23498	20506	16124	12188	-	5	760	3	5.739	40
	35091	31899	28757	25802	23302	19238	16118	7 1/2	870	3	8.610	53
	38721	35828	32935	30200	27684	25195	21506	10	960	3	11.570	64

Performance shown is for Models HRSB-F and HRSD-F without inlet or outlet ducts.

Performance includes the effect of a filter.

Brake horsepower does not include drive losses.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301 @ free air. Values shown are installation Type A, free inlet fan sone levels.



UL Standard 705



PERFORMANCE DATA - HRSD-F DIRECT DRIVE WITH FILTERS

Model HRSD-F	CFM @ Static Pressure							HP	RPM	No. of Blades	Max BHP	Sones @ 5 ft.
	0	1/8	1/4	3/8	1/2	5/8	3/4					
24	5724	5215	4523	3733	2889	-	-	3/4	1160	3	.853	21
	6204	5713	5141	4541	3945	3395	2860	1	1160	4	1.115	22
	5932	5527	5090	4466	3692	2891	-	1	1750	2	1.149	30
	7164	6778	6335	5919	5262	4434	3593	1 1/2	1750	2	1.720	34
	7988	7544	7057	6567	6002	5256	4429	2	1750	2	2.352	38
	8779	8476	8173	7821	7463	7091	6726	3	1750	4	3.408	42
30	8273	7251	5961	4530	-	-	-	3/4	870	3	.865	19
	9111	8130	6737	5324	3664	-	-	1	870	4	1.152	21
	7919	7012	5841	4468	-	-	-	3/4	1160	2	.865	23
	9019	8119	7087	5733	4094	-	-	1	1160	2	1.154	25
	10319	9275	8126	6799	5451	-	-	1 1/2	1160	2	1.728	29
	11489	10703	9835	8888	7839	6751	5513	2	1160	3	2.306	33
	10360	9677	9024	8212	7360	6614	5540	2	1750	2	2.340	43
	12739	12155	11560	10934	10224	9351	8439	3	1750	2	3.403	47
	15375	14701	14027	13304	12562	11818	10915	5	1750	2	5.657	58
36	10814	9160	7004	-	-	-	-	3/4	870	2	.866	21
	12029	10298	8210	5682	-	-	-	1	870	2	1.144	23
	13467	11303	8919	6739	-	-	-	1 1/2	870	2	1.740	26
	15229	13606	11915	10099	8115	-	-	2	870	3	2.313	29
	13211	11941	10567	8903	7115	-	-	1 1/2	1160	2	1.712	32
	15197	13942	12667	11097	9432	7374	-	2	1160	2	2.338	33
	17216	15783	14320	12708	10951	9433	-	3	1160	2	3.442	37
	20545	19284	18023	16724	15468	14160	12528	5	1160	3	5.749	49
	19654	18794	17943	17155	16187	15117	14010	5	1750	2	5.726	65
	23366	22527	21689	20853	20022	19089	18090	7 1/2	1750	2	8.437	70
42	13965	11651	8971	5239	-	-	-	1	870	2	1.147	27
	16958	14787	12347	9265	-	-	-	1 1/2	870	2	1.703	28
	18835	16487	14046	11171	-	-	-	2	870	2	2.307	29
	20709	17795	14729	11692	8483	-	-	3	870	2	3.396	35
	25471	23668	21893	20074	18041	15847	13556	5	1160	2	5.739	48
	26240	24928	23677	22653	21293	19916	18551	7 1/2	1750	2	8.425	91
48	21205	18422	15525	10623	-	-	-	2	870	2	2.344	34
	24860	22013	19430	16007	-	-	-	3	870	2	3.397	35
	28822	25302	21915	18436	13330	-	-	5	870	2	5.724	41
	35091	31899	28757	25802	23302	19238	16118	7 1/2	870	3	8.610	49
	28661	26447	24563	22522	20057	16080	12406	5	1160	2	5.709	57
	33747	31570	29480	27547	25436	22954	19494	7 1/2	1160	2	8.473	59
	36844	34454	32078	29866	27653	25141	22274	10	1160	2	11.337	64

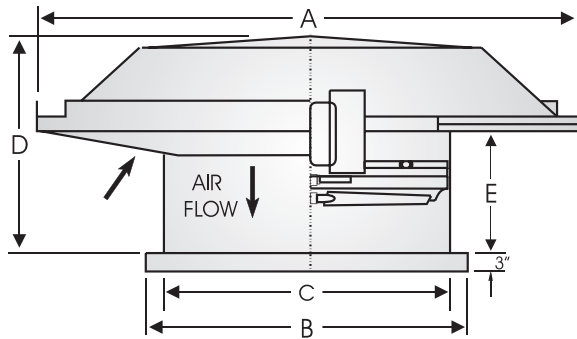
Performance shown is for Models HRSB-F and HRSD-F without inlet or outlet ducts.
Performance includes the effect of a filter.

Brake horsepower does not include drive losses.

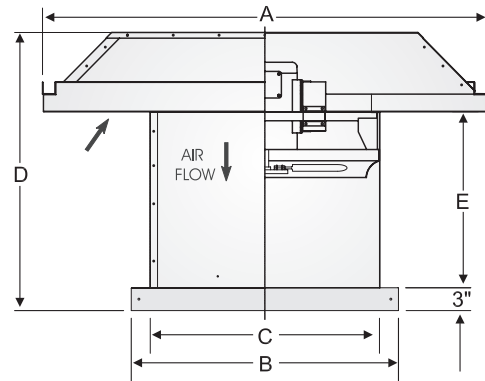
The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301 @ free air. Values shown are installation Type A, free inlet fan sone levels.



DIMENSIONS



Model HRSB - Belt Drive
Model HRSD - Direct Drive



Model HRSB-F - Belt Drive
Model HRSD-F - Direct Drive

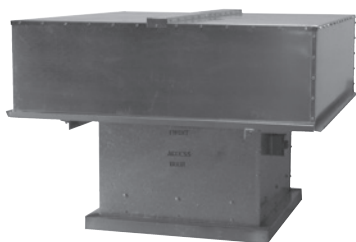
Model HRSB/ HRSD	Dimensions (Inches)						Metal Gauges			Avg. Wt.
	A	B	C	D	E	F	Crown / Side Hood	Stack	Curb Cap	
24	58	35	30	31	23	33-1/4	18 / 18	18	16	425
30	66	41	36	32	23	39-1/4	18 / 18	18	16	550
36	78	47	42	34	23	45-1/4	18 / 18	18	16	700
42	87	53	48	43	30	51-1/4	18 / 18	16	16	800
48	99	59	54	44	30	57-1/4	18 / 18	16	14	1100
54	111	65	60	45	30	63-1/4	18 / 18	16	14	1300
60	111	71	66	46	30	69-1/4	18 / 18	16	14	1550

Model HRSB-F/ HRSD-F	Dimensions (Inches)						Standard Filter ⁷	Avg. Wt.
	A	B	C	D	E	F	Size (Nominal)	
24	58	35	30	31	23	33-1/4	15 x 20 x 2	375
24	66	35	30	32	23	33-1/4	19 x 22 x 2	450
30	66	41	36	32	23	39-1/4	16 x 25 x 2	550
30	78	41	36	34	23	39-1/4	19 x 22 x 2	600
36	78	47	42	34	23	45-1/4	19 x 29-3/4 x 2	675
36	87	47	42	43	23	45-1/4	16-1/8 x 23-1/2 x 2	750
42	87	53	48	43	30	51-1/4	20 x 25 x 2/16 x 20 x 2	850
42	99	53	48	44	30	51-1/4	18-3/8 x 26-1/2 x 2	900
48	99	59	54	44	30	57-1/4	19-1/8 x 23-1/2 x 2	1100
48	111	59	54	45	30	57-1/4	16-1/2 x 29-1/2 x 2	1200

- A - Outside dimension of square hood.
- B - Inside dimension of square curb cap.
- C - Minimum inside dimension of curb opening for rated performance.
- D - Height of unit above curb cap.
- E - Height of hood opening above curb cap.
- F - Outside dimension of prefab curb.

MODELS HREB-C & HRED-C

HOODED PROPELLER ROOF EXHAUST FANS



MODEL FEATURES

- Exhaust air to over 40,000 CFM up to 3/4" w.g.
- Belt drives permit easy performance adjustments when needed
- Direct drive units have low sound levels and quiet operation.
- Reversible blades available
- cULus 705 Listed (HREB-C only)

MODEL OPTIONS

MODEL NAME	DESCRIPTION
HREB-C	Belt Drive Hooded Propeller Roof Exhaust Fan
HRED-C	Direct Drive Hooded Propeller Roof Exhaust Fan

MODEL OVERVIEW

Models HREB-C and HRED-C are roof mounted, low profile exhaust fans rated from 5,700 to over 40,000 CFM. Performances are rated to 3/4" static pressure. Seven sizes (from 24-60 inches) are available AMCA rated for Air and Sound performance. Fans, hoods and bases are available in galvanized or aluminum construction. They are used to exhaust air from a variety of commercial and industrial operations such as manufacturing and assembly plants, warehouses, garages, laundries and similar buildings.

For greater versatility, reversible blades are available as an option. Exhaust or supply air movement is achieved by a remote reversing switch. The reverse feature can provide positive or negative building pressurization with single or multiple fan units. Maximum utilization of the fans can be achieved with this inexpensive option.

The unit's low silhouette fits today's clean uncluttered building design and its standard all-galvanized construction provides years of resistance to corrosion.

Greater hood strength and weather resistance is achieved from the modular design. Heavy-gauge galvanized hood sections are cross broken and connected by a standing seam for extra strength over conventional hood designs.

The knockdown feature on the larger sizes also provides lower transit costs and ease of jobsite handling. This modular design is one of the strongest and easiest to assemble in the industry. Hood sizes 58 to 78 inch (represents fan sizes 24 to 36 inch) ship assembled. Hood sizes 87 to 123 inch (represent fan sizes 42 to 60 inch) ship knockdown or can be special ordered assembled.

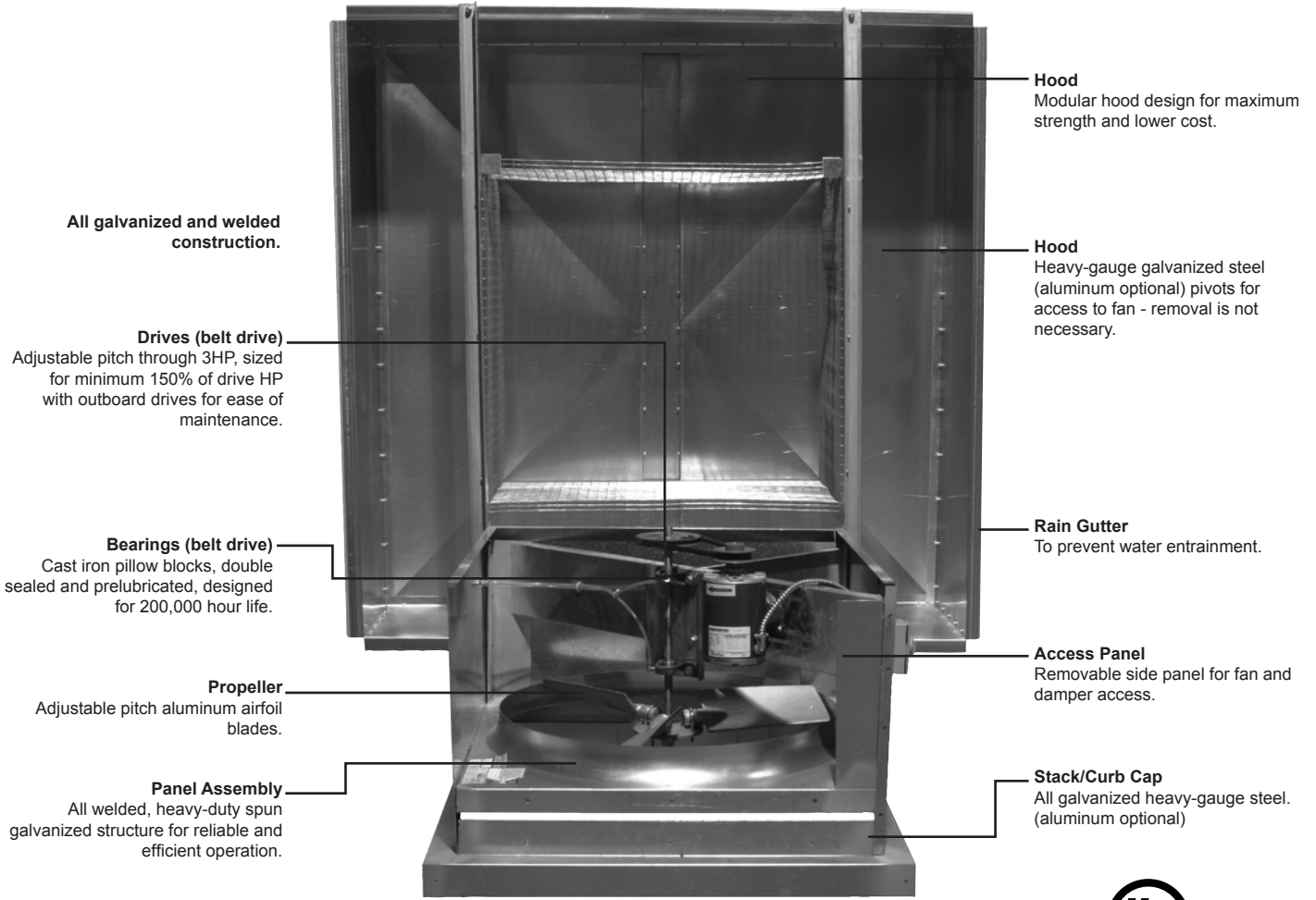
For damper maintenance, an entire side panel of the fan stack easily removes for access. The hood hinges open for motor access. The belt drive fan units all have outboard drives and adjustable motor bases for easy maintenance. These features are standard.

1 year fan housing warranty, 1 year motor warranty

All specifications are subject to change without notice unless approved in submittal by Soler & Palau.



CONSTRUCTION FEATURES AND OPTIONS



All galvanized and welded construction.

Drives (belt drive)

Adjustable pitch through 3HP, sized for minimum 150% of drive HP with outboard drives for ease of maintenance.

Bearings (belt drive)

Cast iron pillow blocks, double sealed and prelubricated, designed for 200,000 hour life.

Propeller

Adjustable pitch aluminum airfoil blades.

Panel Assembly

All welded, heavy-duty spun galvanized structure for reliable and efficient operation.

Hood

Modular hood design for maximum strength and lower cost.

Hood

Heavy-gauge galvanized steel (aluminum optional) pivots for access to fan - removal is not necessary.

Rain Gutter

To prevent water entrainment.

Access Panel

Removable side panel for fan and damper access.

Stack/Curb Cap

All galvanized heavy-gauge steel. (aluminum optional)

AMCA Seal

Assures rating of Air and Sound performance.

Factory Run & Tested

Assures dependable operation.



UL Standard 705 Listing assures electrical safety and reliability. Not available on HRED-C units.



CONSTRUCTION/SPECIFICATION CHECKLIST

Panel Assembly

- Heavy-gauge G90 galvanized steel panel.
- One piece spun venturi for maximum efficiency.
- All welded support structure of minimum schedule 40 galvanized pipe.
- Motor/bearing plates of minimum 10 gauge galvanized steel.
- All welds coated with cold galvanized paint.

Hood

- All heavy-gauge G90 galvanized steel.
- Low silhouette design for pleasing appearance.
- Unique design rain gutter minimizes water entrainment.
- Gutter provides additional hood strength and rigidity.
- Modular design for extra strength and cost savings.

Base

- All galvanized construction for corrosion resistance.
- Secures fan unit to roof curb.
- Elevates fan unit above curb for ease of damper installation.
- Removable panel for damper access.

Propeller

- Two, three, four or six airfoil aluminum blades.
- Steel hub plate with steel taper lock bushing.
- Hub finished with corrosion resistant epoxy paint.
- Adjustable pitch for optimum efficiency.

Drives (belt drive models)

- Sized for minimum 150% of drive horsepower.
- Single belt adjustable pitch sheaves through 3HP.
- Two belt fixed pitch sheaves 5HP through 10HP.
- Adjustable pitch sheaves are optional above 3HP.
- Adjustable tension rods or slide base for belt adjustment.
- Nonstatic oil resistant v-belts.
- Keyed, turned, ground and polished shafts with an anti-rust coating.

Bearings

- Bearings designed for minimum 200,000 hour life, L50.
- Cast iron self-aligning pillow block ball bearings.
- Bearings are sealed, prelubricated with relube fittings.

Motors

- Brands are nationally recognized and locally serviced.
- Open drip-proof construction is standard.
- High-efficiency, explosion proof, totally enclosed, multi-speed and corrosion duty motors can be specified.

AMCA Seal

- Assures ratings of Air and Sound performance.

OPTIONS/ACCESSORIES

Roof Curb: Prefabricated heavy-gauge galvanized steel, Clip Lock, 14” high (other heights are also available) with 1-1/2” wood nailer. Assures perfect fit of exhauster to roof opening. Options include burglar bars, single or double pitch construction and hinged curbs for easy duct access. Welded & custom curbs available.

Disconnect Switch: Nonfused safety disconnects are available for all motor sizes in rain-tight or open enclosures. Explosion proof, Nema 4 and 4X are also available.

Motor Operated Damper: Motor operated for positive closure against backdraft.

Automatic Damper: Automatic (counter-balanced) damper for ease in installation.



Bird Screen: 1/2” x 1” wire mesh guard prevents birds and other objects from entering fan.

Remote Drive: The motor is mounted on the stack exterior, out of the airstream. A motor cover is provided.

Fiberglass Free Insulation: Hood crown is covered with 1/2” high performance and ecologically friendly fiberglass free insulation only, to reduce fan sound and condensation.

Extended Grease Lines: Extended copper grease lines allow motor and/or fan bearings to be relubricated from the exterior.

Motor Safety Chain: Secures motor to fan unit to prevent motor accidentally falling during maintenance.

Aluminum Construction: Optional aluminum construction available for external fan components (hood and base) only.

Special Coatings: Powered roof exhausters often require special coatings for protective and decorative purposes. Available coatings include: Synthetic Resin, Epoxy, and Heresite (air-dried phenolic). Contact your representative or the factory for more information on available coatings and colors.



PERFORMANCE DATA - HREB-C BELT DRIVE

Model HREB-C	CFM / BHP @ Static Pressure							HP	RPM	Sones @ 5 ft.
	0	1/8	1/4	3/8	1/2	5/8	3/4			
24	5702 / 0.377	4678 / 0.400	3661 / 0.397	2480 / 0.392	1159 / 0.416	-	-	1/3	970	14.9
	6525 / 0.565	5613 / 0.599	4764 / 0.599	3792 / 0.595	2730 / 0.587	1582 / 0.624	-	1/2	1110	18.3
	7466 / 0.847	6653 / 0.894	5915 / 0.896	5153 / 0.896	4271 / 0.890	3399 / 0.891	2240 / 0.896	3/4	1270	23
	8230 / 1.135	7482 / 1.193	6806 / 1.202	6134 / 1.201	5417 / 1.193	4592 / 1.193	3809 / 1.194	1	1400	26
	9318 / 1.646	8647 / 1.722	8038 / 1.744	7450 / 1.743	6850 / 1.743	6220 / 1.733	5501 / 1.731	1-1/2	1585	32
	10347 / 2.254	9735 / 2.345	9176 / 2.382	8641 / 2.389	8113 / 2.384	7569 / 2.386	7003 / 2.382	2	1760	38
30	7209 / 0.404	5018 / 0.387	3176 / 0.370	-	-	-	-	1/3	680	13.2
	8269 / 0.610	6517 / 0.591	4594 / 0.558	3076 / 0.565	-	-	-	1/2	780	16.3
	9435 / 0.906	7802 / 0.879	6092 / 0.852	4715 / 0.826	3378 / 0.842	-	-	3/4	890	20
	10389 / 1.209	8811 / 1.173	7407 / 1.157	5963 / 1.135	4761 / 1.106	3524 / 1.129	-	1	980	24
	11874 / 1.805	10351 / 1.752	9420 / 1.752	7876 / 1.698	6728 / 1.674	5675 / 1.648	4619 / 1.667	1-1/2	1120	29
	13093 / 2.420	11601 / 2.350	10764 / 2.349	9647 / 2.312	8292 / 2.277	7287 / 2.216	6332 / 2.209	2	1235	34
36	15001 / 3.640	13542 / 3.539	12783 / 3.532	12052 / 3.533	10959 / 3.478	9741 / 3.424	8829 / 3.431	3	1415	44
	8786 / 0.387	6104 / 0.389	2134 / 0.352	-	-	-	-	1/3	580	13.3
	10073 / 0.584	7683 / 0.594	5107 / 0.550	-	-	-	-	1/2	665	16.5
	11588 / 0.889	9473 / 0.904	7492 / 0.863	4732 / 0.744	-	-	-	3/4	765	20
	12724 / 1.176	10811 / 1.197	9014 / 1.181	6896 / 1.104	3781 / 1.012	-	-	1	840	23
	14542 / 1.756	12808 / 1.788	11215 / 1.788	9677 / 1.708	7717 / 1.648	5057 / 1.472	-	1-1/2	960	29
42	15981 / 2.331	14338 / 2.374	12909 / 2.372	11537 / 2.340	9985 / 2.263	8167 / 2.193	5673 / 1.949	2	1055	33
	18329 / 3.516	16799 / 3.580	15675 / 3.578	14345 / 3.579	12167 / 3.530	11855 / 3.414	10286 / 3.301	3	1210	42
	21737 / 5.865	20331 / 5.964	19363 / 5.974	18375 / 5.969	17234 / 5.969	16243 / 5.940	15229 / 5.892	5	1435	55
	11430 / 0.55	7602 / 0.51	3608 / 0.50	-	-	-	-	1/2	500	13.8
	13031 / 0.82	9733 / 0.78	6209 / 0.72	-	-	-	-	3/4	570	17.3
	14402 / 1.11	11464 / 1.07	8258 / .99	5111 / .99	-	-	-	1	630	20
48	16460 / 1.66	13936 / 1.63	11154 / 1.53	8367 / 1.46	5612 / 1.48	-	-	1-1/2	720	25
	18174 / 2.23	15913 / 2.21	13435 / 2.11	10887 / 2.01	8389 / 1.96	5881 / 2.00	3067 / 2.15	2	795	29
	20804 / 3.35	18847 / 3.33	16747 / 3.24	14532 / 3.11	12309 / 3.00	10124 / 2.95	7953 / 2.96	3	910	36
	24690 / 5.59	23047 / 5.59	21347 / 5.52	19539 / 5.39	17671 / 5.24	15792 / 5.09	13930 / 4.98	5	1080	49
	15781 / 0.832	12968 / 0.908	9524 / 0.814	-	-	-	-	3/4	450	16.3
	17360 / 1.107	14879 / 1.199	11860 / 1.102	8269 / 1.111	-	-	-	1	495	18.9
54	19814 / 1.647	17669 / 1.743	15126 / 1.761	12415 / 1.612	9098 / 1.660	-	-	1-1/2	565	23
	21919 / 2.229	19977 / 2.344	17838 / 2.432	15433 / 2.384	12834 / 2.182	9694 / 2.256	-	2	625	27
	25075 / 3.337	23364 / 3.512	21654 / 3.560	19566 / 3.587	17502 / 3.470	15250 / 3.264	12688 / 3.232	3	715	32
	29809 / 5.606	28351 / 5.885	26957 / 5.894	25466 / 6.081	23707 / 6.096	21940 / 6.000	20177 / 5.563	5	850	43
	33842 / 8.204	32546 / 8.574	31316 / 8.634	30072 / 8.712	28720 / 8.921	27168 / 8.936	25584 / 8.776	7-1/2	965	53
	37349 / 11.028	36166 / 11.478	35044 / 11.602	33932 / 11.595	32782 / 11.718	31524 / 12.008	30116 / 12.021	10	1065	62
60	28075 / 2.084	24746 / 2.252	21152 / 2.357	17397 / 2.317	13225 / 2.128	-	-	2	530	28
	32312 / 3.177	29421 / 3.371	27975 / 3.468	23156 / 3.593	19939 / 3.532	16352 / 3.241	-	3	610	34
	37874 / 5.116	35407 / 5.343	32940 / 5.570	30341 / 5.745	27494 / 5.789	24714 / 5.687	21912 / 5.522	5	715	44
	43171 / 7.576	41007 / 7.836	38843 / 8.095	36670 / 8.350	34336 / 8.520	31840 / 8.574	29337 / 8.413	7-1/2	815	55
	47674 / 10.203	45714 / 10.489	43754 / 10.775	41794 / 11.061	39797 / 11.325	37648 / 11.488	35385 / 11.546	10	900	66
	28479 / 2.264	23920 / 2.303	19370 / 2.184	13910 / 1.862	-	-	-	2	450	26
60	33225 / 3.596	29133 / 3.675	25508 / 3.586	21380 / 3.471	16669 / 2.978	10364 / 2.639	-	3	525	33
	38288 / 5.502	35426 / 5.623	31547 / 5.597	28228 / 5.496	24575 / 5.311	20563 / 5.083	15845 / 4.517	5	605	41
	44301 / 8.523	40836 / 8.697	38290 / 8.708	35595 / 8.567	32709 / 8.512	29610 / 8.222	26232 / 7.869	7-1/2	700	53
	48414 / 11.124	45118 / 11.338	42732 / 11.372	40389 / 11.315	37818 / 11.099	35137 / 11.120	32275 / 10.731	10	765	62

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



S&P, Div. of Soler & Palau Ventilation Group, certifies that the Models HREB-C shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



PERFORMANCE DATA - HRED-C DIRECT DRIVE

Model HRED-C	CFM / BHP @ Static Pressure							HP	RPM	Sones @ 5 ft.
	0	1/8	1/4	3/8	1/2	5/8	3/4			
24	5991 / 0.541	5222 / 0.607	4453 / 0.617	2966 / 0.597	2203 / 0.609			1/2	870	16.1
	6908 / 0.867	6081 / 0.86	5194 / 0.854	3735 / 0.831	2780 / 0.842	1193 / 0.851		3/4	870	18
	5219 / 0.325	4327 / 0.384	3555 / 0.398	2526 / 0.381	1709 / 0.363			1/3	1160	19.7
	6390 / 0.570	5597 / 0.622	4739 / 0.627	3798 / 0.617	2572 / 0.617	1297 / 0.606		1/2	1160	21
	7394 / 0.892	6553 / 0.902	5687 / 0.893	4861 / 0.874	3918 / 0.884	2755 / 0.892	1715 / 0.983	3/4	1160	23
	8361 / 1.237	7480 / 1.247	6758 / 1.248	6041 / 1.239	5084 / 1.215	3481 / 1.239	2323 / 1.258	1	1160	24
	8800 / 1.662	8133 / 1.726	7560 / 1.746	6979 / 1.736	6254 / 1.710	4759 / 1.694	4216 / 1.694	1-1/2	1160	25
	7115 / 0.896	6567 / 1.021	5995 / 1.045	5406 / 1.102	4802 / 1.106	4138 / 1.114	3369 / 1.083	1	1750	31
	9535 / 1.697	8870 / 1.719	8189 / 1.728	7487 / 1.721	6759 / 1.714	5990 / 1.683	5159 / 1.686	1-1/2	1750	43
	10288 / 2.216	9673 / 2.306	9112 / 2.342	8574 / 2.349	8042 / 2.343	7494 / 2.346	6924 / 2.337	2	1750	37
30	8058 / 0.597	6645 / 0.627	5130 / 0.612	3974 / 0.570				1/2	870	16.9
	8885 / 0.852	7507 / 0.891	6113 / 0.888	5383 / 0.878	4050 / 0.838	2400 / 0.858		3/4	870	19.7
	10095 / 1.255	8508 / 1.256	7085 / 1.208	5837 / 1.185	4593 / 1.149	3590 / 1.140	2116 / 1.186	1	870	20
	11015 / 1.890	9970 / 1.890	8893 / 1.874	8361 / 1.849	7542 / 1.690	5640 / 1.721	4904 / 1.750	1-1/2	870	21
	12350 / 2.621	11159 / 2.505	9333 / 2.460	7529 / 2.408	8180 / 2.307	6815 / 2.642	5793 / 2.352	2	870	24
	9274 / 0.860	8023 / 0.886	6518 / 0.863	4673 / 0.820	2755 / 0.816			3/4	1160	25
	10694 / 1.267	9425 / 1.257	7878 / 1.231	6528 / 1.159	4811 / 1.140	2873 / 1.216		1	1160	29
	12020 / 1.923	10870 / 1.924	9633 / 1.896	8269 / 1.849	7103 / 1.815	6316 / 1.821	5272 / 1.778	1-1/2	1160	30
	12847 / 2.523	11665 / 2.545	10635 / 2.542	9601 / 2.517	8715 / 2.493	7782 / 2.446	6963 / 2.324	2	1160	33
	14635 / 3.789	13612 / 3.698	12046 / 3.592	10947 / 3.559	10069 / 3.537	9085 / 3.531	8146 / 3.391	3	1160	37
36	12938 / 2.463	12151 / 2.534	11337 / 2.536	10304 / 2.536	9364 / 2.532	8331 / 2.501	7503 / 2.464	2	1750	46
	15195 / 3.850	14454 / 3.896	13595 / 3.898	12668 / 3.900	11692 / 3.826	10813 / 3.791	9585 / 3.667	3	1750	54
	10708 / 0.780	9073 / 0.833	7377 / 0.845	5612 / 0.808				3/4	870	22
	12730 / 1.152	11041 / 1.200	9168 / 1.184	7346 / 1.169	5061 / 1.101			1	870	26
	13685 / 1.745	12339 / 1.718	10479 / 1.629	8588 / 1.591	6455 / 1.569	3906 / 1.606		1-1/2	870	30
	16374 / 2.409	14844 / 2.388	13309 / 2.392	11779 / 2.312	10037 / 2.191	7404 / 2.162	4676 / 2.102	2	870	28
	18199 / 3.466	16805 / 3.322	15502 / 3.285	14102 / 3.277	12081 / 3.118	9540 / 3.143	6836 / 3.268	3	870	32
	14053 / 1.744	12929 / 1.849	11650 / 1.865	10402 / 1.895	9167 / 1.882	7833 / 1.845	6471 / 1.769	1-1/2	1160	34
	14679 / 2.115	13505 / 2.186	12290 / 2.221	10972 / 2.206	9636 / 2.189	8405 / 2.172	7148 / 2.158	2	1160	35
	17582 / 3.577	16319 / 3.541	15067 / 3.534	13775 / 3.523	12491 / 3.523	11275 / 3.512	9950 / 3.487	3	1160	37
21936 / 5.769	20539 / 5.574	19232 / 5.503	17980 / 5.498	16773 / 5.523	15581 / 5.523	14152 / 5.480	5	1160	47	
15035 / 3.422	14138 / 3.515	13355 / 3.547	12613 / 3.550	11869 / 3.544	11060 / 3.555	10171 / 3.448	3	1750	74	
20465 / 5.422	19705 / 5.639	18927 / 5.770	18129 / 5.832	17312 / 5.843	16476 / 5.826	15609 / 5.903	5	1750	75	
24839 / 8.311	24078 / 8.482	23262 / 8.608	22392 / 8.685	21480 / 8.718	20544 / 8.716	19609 / 8.663	7-1/2	1750	81	

Performance shown is for Installation Type A: Free inlet, Free outlet. BHP does not include drive losses.



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PERFORMANCE DATA - HRED-C DIRECT DRIVE cont.

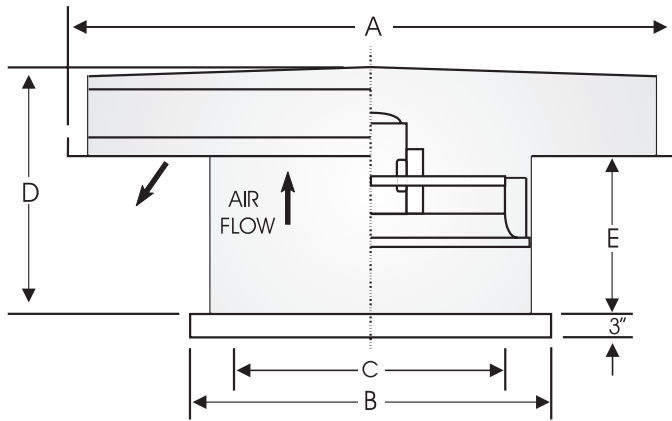
Model HRED-C	CFM / BHP @ Static Pressure							HP	RPM	Sones @ 5 ft.
	0	1/8	1/4	3/8	1/2	5/8	3/4			
42	6570 / 1.609	14167 / 1.551	11262 / 1.420	7973 / 1.426	-	-	-	1-1/2	870	33
	19940 / 2.305	17744 / 2.305	15655 / 2.306	13058 / 2.215	10682 / 2.153	-	-	2	870	37
	21640 / 3.95	19785 / 3.89	17763 / 3.81	15602 / 3.72	13345 / 3.67	11007/3.67	8532 3.73	3	870	41
	21966 / 3.308	20500 / 3.444	18953 / 3.489	17344 / 3.492	15718 / 3.518	14022 / 3.444	12180 / 3.312	3	1160	58
	26310 / 5.833	24753 / 5.770	23272 / 5.771	21656 / 5.642	19945 / 5.643	18332 / 5.356	16737 / 4.609	5	1160	59
	20253 / 5.745	19103 / 5.648	17959 / 5.619	16823 / 5.620	15703 / 5.493	14611 / 5.497	13403 / 5.297	5	1750	93
48	20688 / 2.317	19025 / 2.402	16940 / 2.418	15074 / 2.389	13092 / 2.184	10681 / 2.196	7827 / 2.224	2	870	41
	25857 / 3.483	23353 / 3.470	20843 / 3.448	18197 / 3.344	15375 / 3.114	12299 / 3.178	8647 / 2.975	3	870	44
	30637 / 5.760	28009 / 5.547	25382 / 5.505	22872 / 5.527	20457 / 5.573	17925 / 5.584	14299 / 5.353	5	870	48
	34585 / 8.315	33085 / 8.498	31514 / 8.610	29874 / 8.656	28175 / 8.648	26449 / 8.493	24689 / 8.506	7-1/2	870	50
	37488 / 11.819	35927 / 11.332	34497 / 11.090	32665 / 10.976	30613 / 10.985	28509 / 10.499	26495 / 10.506	10	870	56
	30735 / 5.883	28107 / 5.486	25346 / 5.411	22591 / 5.430	19994 / 5.239	17423 / 4.666	14714 / 4.779	5	1160	71
	34476 / 8.257	32589 / 8.222	30723 / 8.227	28848 / 8.230	26934 / 8.174	24944 / 7.914	22873 / 7.765	7-1/2	1160	79
	38005 / 11.916	35927 / 11.509	34081 / 11.356	32323 / 11.324	30562 / 11.337	28647 / 10.825	26258 / 10.795	10	1160	99
54	27942 / 3.470	25431 / 3.528	22691 / 3.539	19504 / 3.486	16154 / 3.296	12685 / 3.033	9565 / 2.570	3	870	43
	37098 / 4.879	34410 / 5.044	31722 / 5.209	29013 / 5.310	26232 / 5.322	23290 / 5.270	20389 / 5.119	5	870	58
	44330 / 8.857	41565 / 8.595	38801 / 8.333	36024 / 8.089	33088 / 8.026	29922 / 8.003	26445 / 7.749	7-1/2	870	67
	43655 / 11.930	40830 / 11.397	38170 / 11.216	35619 / 11.208	33151 / 11.013	30745 / 11.003	28251 / 10.863	10	870	69
	27088 / 5.860	25568 / 5.788	23941 / 5.772	22218 / 5.777	20425 / 5.606	18586 / 5.506	16718 / 5.340	5	1160	87
36365 / 8.495	34710 / 8.753	33103 / 8.897	31500 / 8.957	29856 / 8.955	28086 / 8.811	26063 / 8.824	7-1/2	1160	92	
60	48780 / 11.909	45778 / 11.745	42747 / 11.728	39680 / 11.667	36563 / 11.253	33414 / 10.753	30299 / 10.717	10	870	88

Performance shown is for Installation Type A: Free inlet, Free outlet. BHP does not include drive losses.

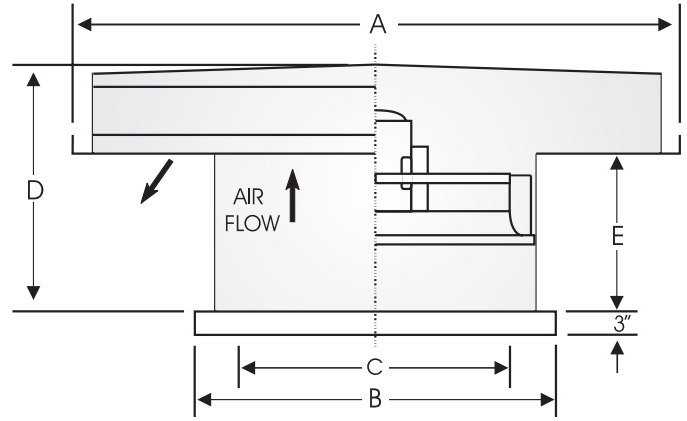


S&P, Div. of Soler & Palau Ventilation Group, certifies that the Models HRED-C shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and comply with the requirement of the AMCA Certified Ratings Program.

DIMENSIONS



Model HREB-C Belt Drive



Model HRED-C Direct Drive

Size	Dimensions (Inches)						Metal Gauges				Avg. Wt.
	A	B	C	D	E	F	Hood Crown	Hood Side	Base	Curb Cap	
24	58	35	30	44	23	33-1/4	18	18	16	16	425
30	66	41	36	44	23	39-1/4	18	18	16	16	550
36	78	47	42	44	23	45-1/4	18	18	16	16	700
42	87	53	48	51	30	51-1/4	18	16	16	16	800
48	99	59	54	51	30	57-1/4	18	16	16	14	1100
54	111	65	60	51	30	63-1/4	18	16	14	14	1300
60	111	71	66	51	30	69-1/4	18	16	14	14	1550
60	123	71	66	51	30	69-1/4	18	16	14	14	1690

- A - Outside dimension of square hood.
- B - Inside dimension of square curb cap.
- C - Minimum inside dimension of curb or roof opening for rated performance.
- D - Height of unit above curb cap.
- E - Height of hood opening above curb cap.
- F - Outside dimension of prefab curb.

MODEL UBS

BELT DRIVE UPBLAST PROPELLER ROOF EXHAUSTER



MODEL FEATURES

- Exhaust air up to 51,000 CFM in static pressure applications up to 1/2" w.g.
- Straight-through air flow design results in maximum exhaust efficiency
- Belt drives permit easy performance adjustments when needed
- cULus 705 Listed

MODEL OVERVIEW

Model UBS is a high capacity roof mounted exhauster rated from 7,000 to 51,000 CFM. They are general ventilation units designed to economically remove large volumes of air, fumes and vapors from commercial and industrial buildings such as warehouses, manufacturing and assembly plants, chemical plants, foundries and paper mills.

Straight-through air flow design results in maximum exhaust efficiency. During operation, high air flow velocity opens butterfly dampers and prevents rain or snow from entering. Dampers close and cover the venturi opening when unit is not in use.

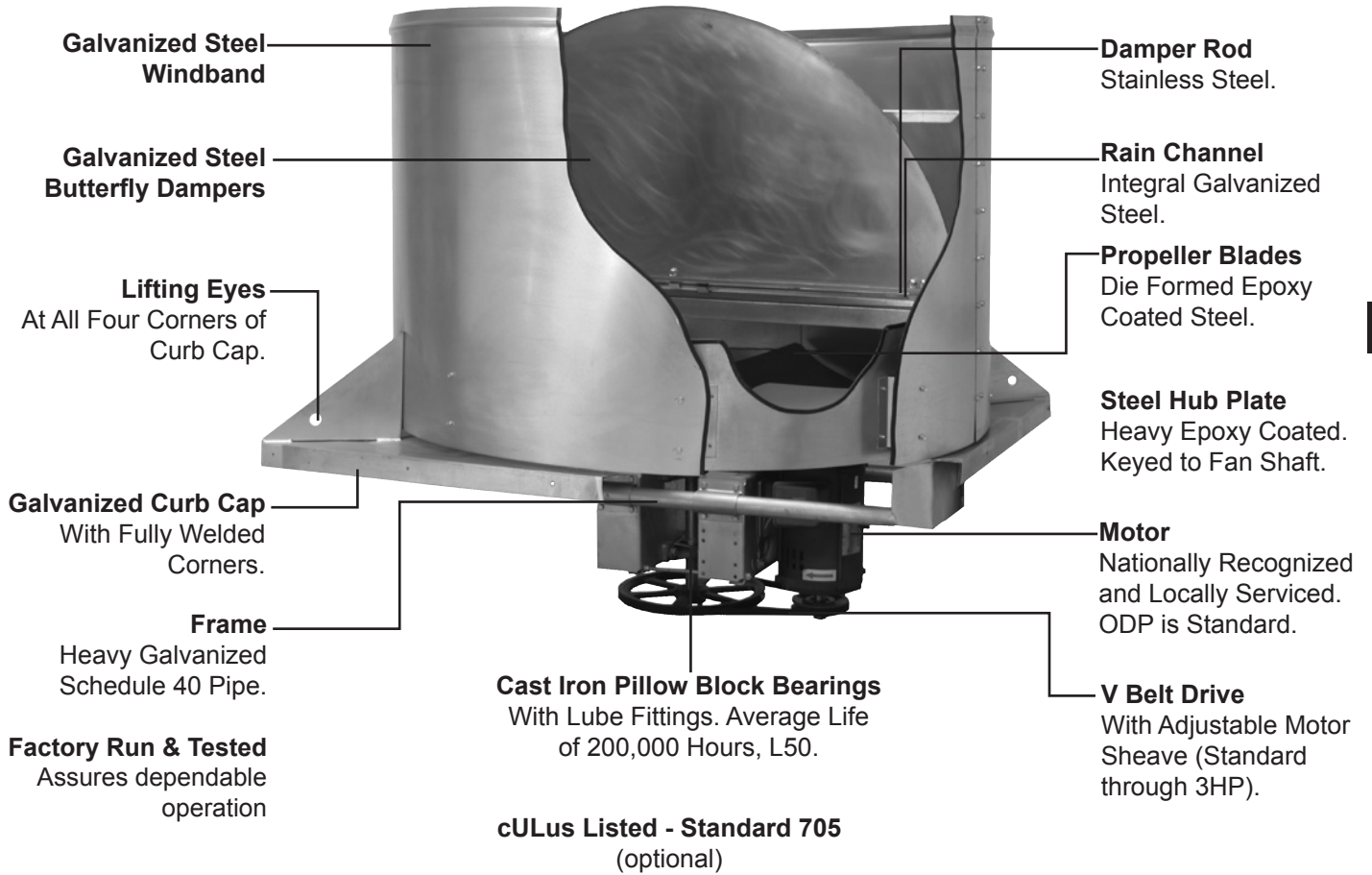
The roof mounted location eliminates interference with processes and equipment inside the building. It also permits locating the exhauster over a source of heated or contaminated air, allowing direct upward venting to the outside, unlike wall mounted exhausters which may move contaminated air through adjacent work spaces.

Belt drive units usually operate more quietly and afford easier performance adjustments, while direct drive models require less maintenance.

1 year fan housing warranty, 1 year motor warranty



CONSTRUCTION FEATURES AND OPTIONS





CONSTRUCTION/SPECIFICATION CHECKLIST

Panel Assembly

- Heavy-gauge G90 galvanized steel panel on all sizes.
- One piece venturi for maximum efficiency.
- Welded and bolted support structure of schedule 40 galvanized pipe.
- Motor/bearing plates of heavy-gauge galvanized steel.
- Lifting eyes standard for ease of installation.

Windband/Butterfly Dampers

- Heavy-gauge galvanized steel windband.
- Galvanized steel butterfly dampers standard.
- Galvanized rain channel drains water from damper area to roof.
- Corrosion resistant.

Propeller

- Steel hub plate with steel taper lock bushing.
- Die formed, heavy-gauge, epoxy coated, steel blades.

Drives

- Sized for minimum 150% of drive horsepower.
- Single belt adjustable pitch sheaves through 3HP.
- Two belt fixed pitch sheaves on 5HP and 7 1/2HP units.
- Adjustable tension rods for belt adjustment.
- Nonstatic oil resistant V belts.
- Keyed, turned, ground and polished shafts coated with an anti-rust compound to resist corrosion.

Bearings

- Bearings designed for minimum 200,000 hour life, L50.
- Cast iron self-aligning pillow block ball bearings.
- Bearings are sealed, prelubricated with relube fittings.

Motors

- Brands are nationally recognized and locally serviced.
- Open drip-proof construction is standard.

OPTIONS/ACCESSORIES

Roof Curb: Prefabricated heavy-gauge galvanized steel, Clip Lock, 14" high with 1 - 1/2" wood nailer. Options include burglar bars, single and double pitch construction, and additional curb heights. Welded & custom curbs available.

Outlet Guard: 1/2" x 1" wire mesh guard will prevent birds and other objects from entering fan.

Disconnect Switch: Nonfused safety disconnects are available for all motor sizes in rain-tight or open enclosures. Explosion proof, Nema4 and 4X are also available.

Magnetic Latches: Help reduce butterfly damper chatter when the units are not in operation.

Cushion Close: Allows butterfly damper doors to close quietly.

Safety Basket Guard: 1/2 x 1" galvanized wire. Guard extends into roof curb. **Important:** For all nonducted applications, the manufacturer recommends that a safety basket guard must be installed as a safety precaution for personnel below unit.

Extended Grease Lines: Extended nylon grease lines allow fan bearings to be relubricated from the exterior of the fan housing.



PERFORMANCE AND DIMENSIONS

Performance Data

MODEL UBS	CFM @ STATIC PRESSURE					HP	RPM	Max. BHP	Sones @ .375
	0	1/8	1/4	3/8	1/2				
24	7079	6599	6023	5284	3732	3/4	1070	0.82	22
	7939	7511	7068	6461	5718	1	1200	1.10	27
30	10546	9463	7865	5230	3906	1	871	1.10	16.8
	12781	11952	10895	9435	7270	1-1/2	1055	1.65	23
36	14388	13700	12782	11745	10346	2	1188	2.20	29
	11872	10354	8064	5301	3522	1	575	1.15	14.6
42	14557	13389	11962	9903	6871	1-1/2	705	1.65	21
	16415	15416	14200	12722	10776	2	795	2.20	24
48	19087	18221	17299	16291	15181	3	950	3.30	36
	16307	14087	11400	7270	5386	1-1/2	510	1.65	16.4
54	19184	17283	15281	12804	8980	2	600	2.20	22
	22382	20749	19150	17245	15170	3	700	3.30	31
60	25259	23813	22382	20885	19127	5	790	5.50	42
	22656	20052	16506	10504	7559	2	475	2.20	19.7
60	27187	25018	25563	19410	14113	3	570	3.30	26
	31480	29606	27732	25319	22538	5	660	5.50	33
60	29460	25454	20962	14718	11910	3	485	3.30	19
	36456	33013	30586	26237	19623	5	600	5.50	29
60	44555	40707	36545	27962	22834	5	495	5.50	26
	50996	47635	44150	39164	31620	7-1/2	555	8.62	35

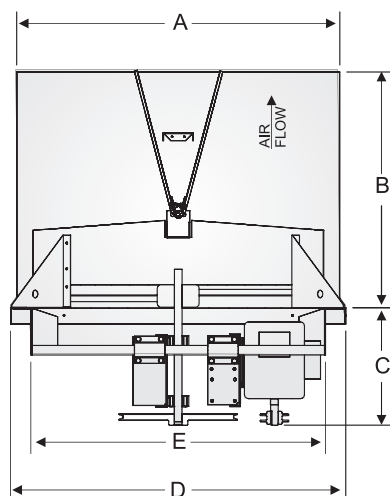


Performance shown is for roof ventilators for installation type A: Free inlet, Free outlet. The power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

Sound ratings are loudness values in fan sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: Free inlet fan sone levels. For additional sound data and for selections at other static pressures, please refer to the Optimizer Selection Program.

Due to air stream cooling, the motor loading into the service factor shown does not overheat the motor and is within NEMA recommended limits. BHP at most static pressure points is less than the maximum power shown - in many cases substantially less. Use Optimizer to see the exact BHP for your selection.

Dimensional Data

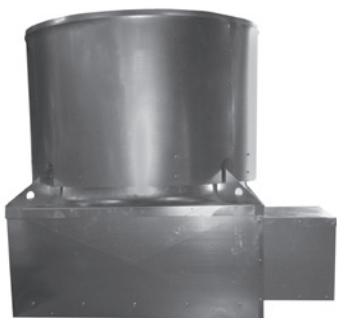


MODEL UBS	A	B	C	D	E	F	METAL GAUGES		Average Wt. Lbs.
							WIND SHROUD	FAN PANEL	
24	30	26	20	32	28	31	18	16	250
30	36	29	21	38	34	37	18	16	325
36	42	31	21	44	40	43	18	16	350
42	48	34	22	50	46	49	18	16	425
48	54	37	26	56	52	55	18	16	450
54	60	40	26	62	58	61	18	14	575
60	66	43	26	68	64	67	18	14	750

- A - Outside Diameter of Windband.
- B - Height of Unit Above Curb Cap.
- C - Maximum Depth of Unit Below Top of Curb, Actual Depth Varies with Motor Size.
- D - Inside Dimension of Square Curb Cap.
- E - Minimum Inside Dimension of Curb Opening Required for Adequate Clearance of Fan Frame.
- F - Outside Dimension of Factory Built Prefab Curb.

MODEL UBSRD

REMOTE DRIVE UPBLAST PROPELLER ROOF EXHAUSTER



MODEL FEATURES

- Exhaust air up to 52,000 CFM in static pressure applications up to 3/4" w.g.
- Motor and drives are located outside of the exhaust airstream
- Suited for removal of heated or contaminated air
- Capable of continuous operation exhausting air up to 200°F
- Belt drives permit easy performance adjustments when needed
- cULus 705 Listed

MODEL OVERVIEW

Model UBSRD units are high capacity, belt driven roof mounted exhausters rated from 4,900 to 52,000 CFM. The motor and drives are located outside of the exhaust airstream, making these units especially suited for the removal of heated or contaminated air from commercial and industrial buildings or processes where these conditions exist. All models are capable of continuous operation exhausting air to 200°F.

The remote drive construction allows for easy rooftop belt and motor access for maintenance. For increased air performance (in clean conditions) with the same easy maintenance access, the UBSRD is available without the belt and bearing enclosures.

Straight-through air flow design results in maximum exhaust efficiency. During operation, high air flow velocity opens butterfly dampers and prevents rain or snow from entering. Dampers close and cover the venturi opening when unit is not in use.

The roof mounted location eliminates interference with processes and equipment inside the building. It also permits locating the exhauster over a source of heated or contaminated air, allowing direct upward venting to the outside, unlike wall mounted exhausters which may move contaminated air through adjacent work spaces.

1 year fan housing warranty, 1 year motor warranty

For Model Number Code instructions please refer to page 86.



CONSTRUCTION/SPECIFICATION CHECKLIST

Panel Assembly

- Heavy-gauge G90 galvanized steel panel, size 24-60.
- One piece venturi for maximum efficiency and strength.
- Motor mounting plates of heavy-gauge galvanized steel.
- Bearing mounting plates of heavy-gauge galvanized steel.
- Lifting eyes standard for ease of installation.

Windband/Butterfly Dampers

- Heavy-gauge galvanized steel windband.
- Galvanized steel butterfly dampers standard.
- Galvanized rain channel drains water from damper area to roof.
- Galvanized damper shaft rotates in bronze bushing.

Propeller

- Steel hub plate with steel taper lock bushing.
- Die formed, heavy-gauge, epoxy coated, steel blades.

Drives

- Shielded from airstream by galvanized steel enclosure (Optional).
- Sized for minimum 150% of drive horsepower.
- Single belt adjustable pitch sheaves through 3HP.
- Two belt fixed pitch sheaves 5HP through 10HP.
- Adjustable pitch sheaves are optional above 3HP.
- Tilt motor base for belt adjustment.
- Nonstatic, oil resistant v-belts.
- Keyed, turned, ground and polished shafts.

Bearings

- Bearings designed for minimum 200,000 hour life, L50.
- Cast iron self-aligning pillow block ball bearings.
- Bearings are sealed, prelubricated and furnished with relube fittings.

Motors

- Located outside airstream under weather cover.
- Brands are nationally recognized and locally serviced.
- Open drip-proof construction is standard.



OPTIONS/ACCESSORIES

Roof Curb: Prefabricated heavy-gauge galvanized steel, Clip Lock, 14” high with 1-1/2” wood nailer. Options include burglar bars, single and double pitch construction, and additional curb heights. Welded & custom curbs available.

Disconnect Switch: Nonfused safety disconnects are available for all motor sizes in rain-tight or open enclosures.

Magnetic Latches: Help reduce damper chatter when the units are not in operation.

Noninsulated Belt Cover (Belt Tube): To isolate drive components from airstreams.

Outlet Guard: 1/2” x 1” wire mesh guard will prevent birds and other objects from entering fan.

Propeller Blade Side Safety Guard: 1/2 x 1” galvanized wire guard. **Important:** For all nonducted applications, the manufacturer recommends that a safety guard must be installed as a safety precaution for personnel below unit.

Extended Grease Lines: Extended grease lines allow fan bearings to be relubricated from the exterior.

Special Coatings: Powered roof exhausters often require special coatings for protective and decorative purposes. Available coatings include: Synthetic Resin, Epoxy, and Heresite (air-dried phenolic). Contact your representative or the factory for more information on available coatings and colors.

MODELS UBSRD-HT & UBSRD-HT1

REMOTE DRIVE UPBLAST PROPELLER ROOF EXHAUSTERS FOR HEAT AND SMOKE REMOVAL



MODEL FEATURES

- Exhaust air up to 52,000 CFM in static pressure applications up to 3/4" w.g.
- Motor and drives are located outside of the exhaust airstream
- Designed and tested for emergency heat and smoke removal
- Successfully passed heat test of 1000°F for 15 minutes and 500°F for over 4 hours
- Belt drives permit easy performance adjustments when needed
- cULus 705 Listed

MODEL OVERVIEW

Model UBSRD-HT/HT1 has been designed and tested for emergency heat and smoke removal. This design also lends itself to everyday nonemergency high capacity industrial and commercial roof exhaust applications. Model UBSRD-HT/HT1 successfully passed heat test of 1000°F for fifteen (15) minutes, and 500°F for over four (4) hours by an independent testing agency. Model UBSRD-HT/HT1 exceeds I.R.I. (Industrial Risk Insurers) guidelines as "Power Ventilator for Smoke Control Systems."

Features	UBSRD-HT	UBSRD-HT1
165°F (74°C) Fusible Link and Spring Damper Lifters		•
Belt tube with heat shield	•	•
Dual Drives	•	•
High Temperature Bearing Grease	•	•

The heavy-gauge design allows for years of standard commercial use and the dependability required in a fire emergency. The upblast configuration exhausts heat and smoke high above the roof line aiding in the access and capabilities of firefighters. Unlike complete design dependence on gravity vents which are sometimes limited by air temperature and wind velocity, the UBSRD-HT/HT1 in conjunction with gravity vents, will more effectively remove smoke, hot air, and gases when used in a properly designed system. With the UBSRD-HT1 unit, in the event of electrical failure, the 165°F fusible link will activate the spring assisted damper doors to provide gravity ventilation. Fan CFM, sizing and location for both exhaust and supply air are an important part of the overall heat and smoke venting building design needs. Refer to I.R.I., NFPA (National Fire Protection Association), and local fire codes for help in proper system design. Final approval for the complete system design should be authorized by the local authority having jurisdiction.

Fan selections are available in 24, 30, 36, 42, 48, 54 and 60 inch sizes. Horsepower and CFM range to 52,000 CFM and 10HP. Units are tested in accordance with AMCA Standard 301 (sound) and AMCA 210 (air) in an AMCA certified laboratory. Every unit is completely assembled and factory tested for quality assurance prior to shipment.

1 year fan housing warranty, 1 year motor warranty

For Model Number Code instructions please refer to page 86.

All specifications are subject to change without notice unless approved in submittal by Soler & Palau.



CONSTRUCTION/SPECIFICATION CHECKLIST

1. Successfully heat tested by independent laboratory for;
 - (a) 1000°F for 15 minutes.
 - (b) 500°F for minimum 4 hours.
2. All ferrous construction in airstream.
3. 165°F fusible link in damper spring mechanism (HT1 unit only).
4. Motor out-of-airstream design.
5. Belt & bearings enclosed in ventilated housing.
6. Minimum dual groove drive/belt combination.
7. Shaft heat slinger.
8. Belt tube and cover standard.
9. Die formed, heavy-gauge, epoxy coated, steel blades.
10. High temp grease.

Drives

Motors, bearings and belt are shielded from the airstream by a sheet metal enclosure, with cooling provided by fresh outside air. Drives are fixed, sized for a minimum 150% of drive horsepower. Drives are minimum dual groove sheaves. Adjustable sheaves are available as an option. Bearings are heavy-duty cast iron, pillow block with relubricable fittings. Standard bearings are designed for minimum 200,000 hour, L50 life. All shafts are turned, ground and polished steel coated with an anti-rust compound to resist corrosion.

Electrical Power

Electrical power should be independent of the general building. Wiring requires special, heat resistant qualities as determined by local fire codes. Switching should always be arranged so that automatic start-up can be achieved through safety devices such as, but not limited to, sprinkler systems and smoke or heat sensors.

High Temperature Option

500°F (260°C) for a minimum of 4 hours

1000°F (538°C) for a minimum of 15 minutes

This construction exceeds specifications for IRI requirements of 500°F (260°C) air for a minimum of 4 hours and the SBCCI "Standard Fire Prevention Code" requirements of 1000°F (538°C) for a minimum of 15 minutes in emergency smoke removal applications. In addition, this construction exceeds British Standards 7346 Class B (250°C for 2 hours), Class C (300°C for 15 minutes), and Class D (300°C for 1 hour) temperature requirements. Temperature ratings tested in accordance to UL smoke control systems.

OPTIONS/ACCESSORIES

Roof Curb: Prefabricated heavy-gauge galvanized steel, Clip Lock, 14" high with 1-1/2" wood nailer. Options include burglar bars, single and double pitch construction, and additional curb heights. Welded & custom curbs available.

Disconnect Switch: Nonfused safety disconnects are available for all motor sizes in rain-tight or open enclosures.

Outlet Guard: 1/2" x 1" wire mesh guard will prevent birds and other objects from entering fan.

Propeller Blade Side Safety Guard: 1/2 x 1" galvanized wire guard. **Important:** For all nonducted applications, the manufacturer recommends that a safety guard must be installed as a safety precaution for personnel below unit.

Special Coatings: Powered roof exhausters often require special coatings for protective and decorative purposes. Available coatings include: Synthetic Resin, Epoxy, and Heresite (air-dried phenolic). Contact your representative or the factory for more information on available coatings and colors.



PERFORMANCE DATA

Model	Motor HP	RPM	Max. BHP	Sones @ .375	CFM @ Static Pressure in Inches of Water												
					0.000	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625	0.750		
24L	1/2	989	0.55	17	6153	5747	5645	5511	5244	4977							
	3/4	1123	0.82	22	6987	6629	6539	6435	6227	6019	5761	5373					
	1	1233	1.1	23	7671	7345	7263	7179	7012	6845	6614	6267	5580				
	1-1/2	1415	1.65	28	8800	8516	8445	8374	8231	8089	7920	7667	7163	6593			
30L	3/4	850	0.82	17	10257	9359	9134	8795	8118	7440							
	1	931	1.1	21	11224	10426	10227	9950	9396	8842	7950	6611					
	1-1/2	1065	1.65	25	12847	12189	12024	11814	11394	10974	10397	9531	7404				
	2	1180	2.2	29	14235	13675	13535	13350	12979	12608	12176	11529	10119				
30H	2	1286	2.2	34	13082	12604	12484	12364	12125	11886	11594	11156					
	3	1470	3.3	47	14959	14541	14436	14331	14122	13912	13690	13357	12706				
	5	1736	5.5	49	17664	17310	17221	17132	16955	16778	16601	16335	15874	15322	14697		
36L	1	641	1.1	21	13232	12196	11937	11622	10991	10361	6217						
	1-1/2	727	1.65	25	15018	14137	13917	13661	13148	12636	11969	10969					
	2	810	2.2	29	16726	15936	15738	15516	15071	14626	14145	13423					
36H	3	926	3.03	36	19128	18437	18264	18080	17713	17345	16943	16340	15239				
	3	1016	3.3	41	19050	18274	18080	17870	17449	17029	16556	15846	14267	12076			
	5	1205	5.5	57	22599	21945	21781	21615	21282	20950	20583	20032	19094	17763	16282		
42L	1	495	1.1	23	15823	13994	13537	12974	11847								
	1-1/2	562	1.65	28	17965	16347	15942	15487	14576	13666							
	2	623	2.2	35	19920	18453	18086	17707	16950	16192							
	3	711	3.3	38	22724	21438	21116	20801	20170	19539	18804	17702					
42H	5	1004	5.5	50	26457	25702	25513	25288	24839	24389	23890	23141	21942	20643	18996		
	7-1/2	1155	7.88	53	30440	29784	29620	29454	29121	28788	28339	27665	26596	25568	24449		
	1-1/2	460	1.65	22	21919	19765	19227	18470	16957	15444							
48L	2	514	2.2	23	24507	22581	22100	21504	20311	19119							
	3	579	3.3	26	27616	25907	25480	25004	24053	23102	21872	20026					
	5	670	5.1	33	31937	30459	30090	29721	28982	28243	27308	25905	23195	20385			
	5	791	5.5	40	32797	30939	30474	30136	29461	28786	27950	26696	24225				
48H	7-1/2	908	8.25	48	37629	35906	35475	35172	34565	33958	33369	32486	30522	28440			
	10	970	10.1	50	40214	38602	38199	37896	37289	36682	36131	35305	33727	31778	29735		
	1-1/2	402	1.65	16	24586	21026	20136										
54L	2	442	2.2	17	27060	23788	22970	21627	18942	16256							
	3	504	3.3	19	30851	27673	26879	26109	24570	23031	20309	16227					
	5	600	5.5	25	36726	33989	33305	32818	31844	30870	29178	26640	20018				
54H	3	633	3.3	37	30726	28700	28194	27748	26856	25964	24765	22967					
	5	771	5.5	51	37430	35799	35391	34990	34187	33385	32652	31553					
	7-1/2	882	8.25	54	42804	41386	41032	40659	39912	39165	38537	37596	35925				
	10	939	10.5	57	45565	44233	43900	43553	42858	42163	41533	40589	39167	37334	35314		
60L	3	418	3.3	24	37362	33644	32715	31036	27677	24318	21876	18214					
	5	495	5.49	26	44233	41132	40357	39495	37771	36047	32622	27485	22405				
	7-1/2	555	8.15	35	50459	47741	47062	46356	44943	43530	41464	38364	30821	26382			
60H	3	564	3.3	37	36030	33791	33231	32388	30702	29016							
	5	664	5.5	47	42397	40441	39952	39405	38310	37216	35553	33058					
	7-1/2	744	8.25	51	47555	45805	45368	44965	44160	43354	41982	39924	36140	32640	27799		
	10	817	10.5	54	52173	50579	50180	49803	49048	48293	47339	45907	42619	39077	35879		

Performance shown is for roof ventilators for installation type A: Free inlet, Free outlet. The power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream.

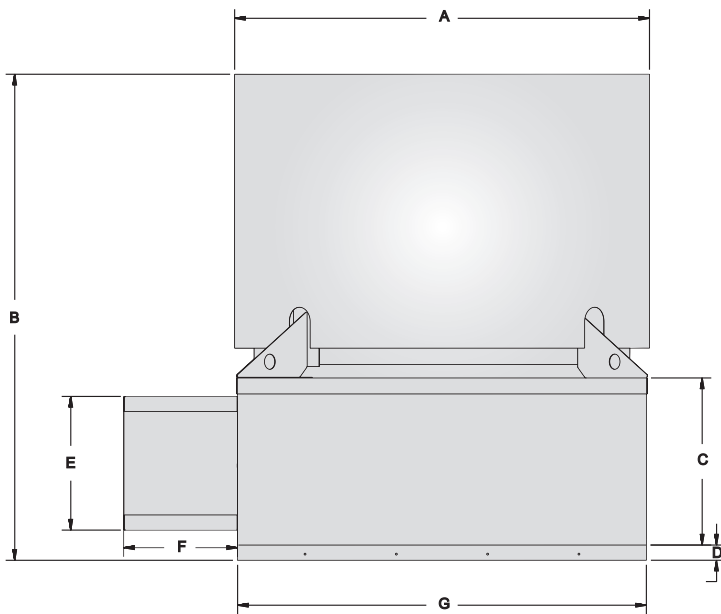
Sound ratings are loudness values in fan sones at 5 feet (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are for installation type A: Free inlet fan sone levels.

Due to air stream cooling, the motor loading into the service factor shown does not overheat the motor and is within NEMA recommended limits. BHP at most static pressure points is less than the maximum power shown - in many cases substantially less. Please refer to the Optimizer Selection Program for additional sound data and for selections at other static pressures, and to see the exact BHP for your selection.





DIMENSIONS



Model Number Code
 The model number code is designed to completely identify the fan. Below is a detailed explanation of the model number codes:

UBS RD HT - 36 L

Uplblast Propeller Roof Fan (UBS)
 Motor out-of-airstream (RD)
 Level of Construction (HT or HT1) (HT)
 Fan Size (36)
 Propeller Type (L)
 L-Low
 H-High

Model	A	B	C	D	E	F	G	H	I	Wt. (lbs)
24	30	49	22	2	17-1/2	15	29-1/2	28-1/2	25-1/2	310
30	36	52	22	2	17-1/2	15	35-1/2	34-1/2	31-1/2	340
36	42	58	22	2	17-1/2	15	41-1/2	40-1/2	37-1/2	430
42	48	61	22	2	17-1/2	15	47-1/2	46-1/2	43-1/2	490
48	54	64	22	2	17-1/2	15	53-1/2	52-1/2	49-1/2	640
54	60	67	22	2	17-1/2	15	59-1/2	58-1/2	55-1/2	840
60	66	70	22	2	17-1/2	15	65-1/2	64-1/2	61-1/2	1000

- A - Outside Diameter Windband
- B - Total Height of Unit
- C - Housing Height
- D - Curb Cap Depth
- E - Motor Cover Height
- F - Motor Cover Width
- G - Inside Dimension of Square Curb Cap
- H - OD of factory built prefab curb.
- I - Recommended roof opening (inside dimension of factory built prefab curb.)

Model	Windband (galv)	Curb Cap (Galv)	Butterfly Damper		Housing (galv)	Drive Support Channel	Channel Support	Motor Bracket	Drive Shaft Size	Max Motor Frame Size
			Galv	Alum	Front/Back					
24	20	14	20	0.04	18	12	12	10	1	145T
30	20	14	20	0.04	18	12	12	10	1	184T
36	20	14	20	0.04	18	12	12	10	1	184T
42	20	14	20	0.04	18	12	12	10	1-7/16	215T
48	20	14	20	0.04	18	12	12	10	1-7/16	215T
54	20	14	20	0.04	18	12	12	10	1-7/16	215T
60	20	14	20	0.04	18	12	12	10	1-7/16	215T



MODELS UBB & UBX

UPBLAST PROPELLER ROOF EXHAUSTERS BELT AND DIRECT DRIVE



MODEL FEATURES

- Exhaust air up to 78,000 CFM in static pressure applications up to 1/2" w.g.
- Straight-through air flow design results in maximum exhaust efficiency
- Belt drives permit easy performance adjustments when needed
- Direct drive units have low sound levels and quiet operation
- cULus 705 Listed

MODEL OPTIONS

MODEL NAME	DESCRIPTION
UBB	Belt Drive Upblast Propeller Roof Exhauster
UBX	Direct Drive Upblast Propeller Roof Exhauster

MODEL OVERVIEW

Models UBB and UBX are high capacity roof mounted exhausters rated from 5,900 to 78,000 CFM. They are general ventilation units designed to economically remove large volumes of air, fumes and vapors from commercial and industrial buildings such as warehouses, manufacturing and assembly plants, distribution centers, chemical plants, foundries and paper mills.

Straight-through air flow design results in maximum exhaust efficiency. During operation, high air flow velocity opens butterfly dampers and prevents rain or snow from entering. Dampers close and cover the venturi opening when unit is not in use.

The roof mounted location eliminates interference with processes and equipment inside the building. It also permits locating the exhauster over a source of heated or contaminated air, allowing direct upward venting to the outside, unlike wall mounted exhausters which may move contaminated air through adjacent work spaces.

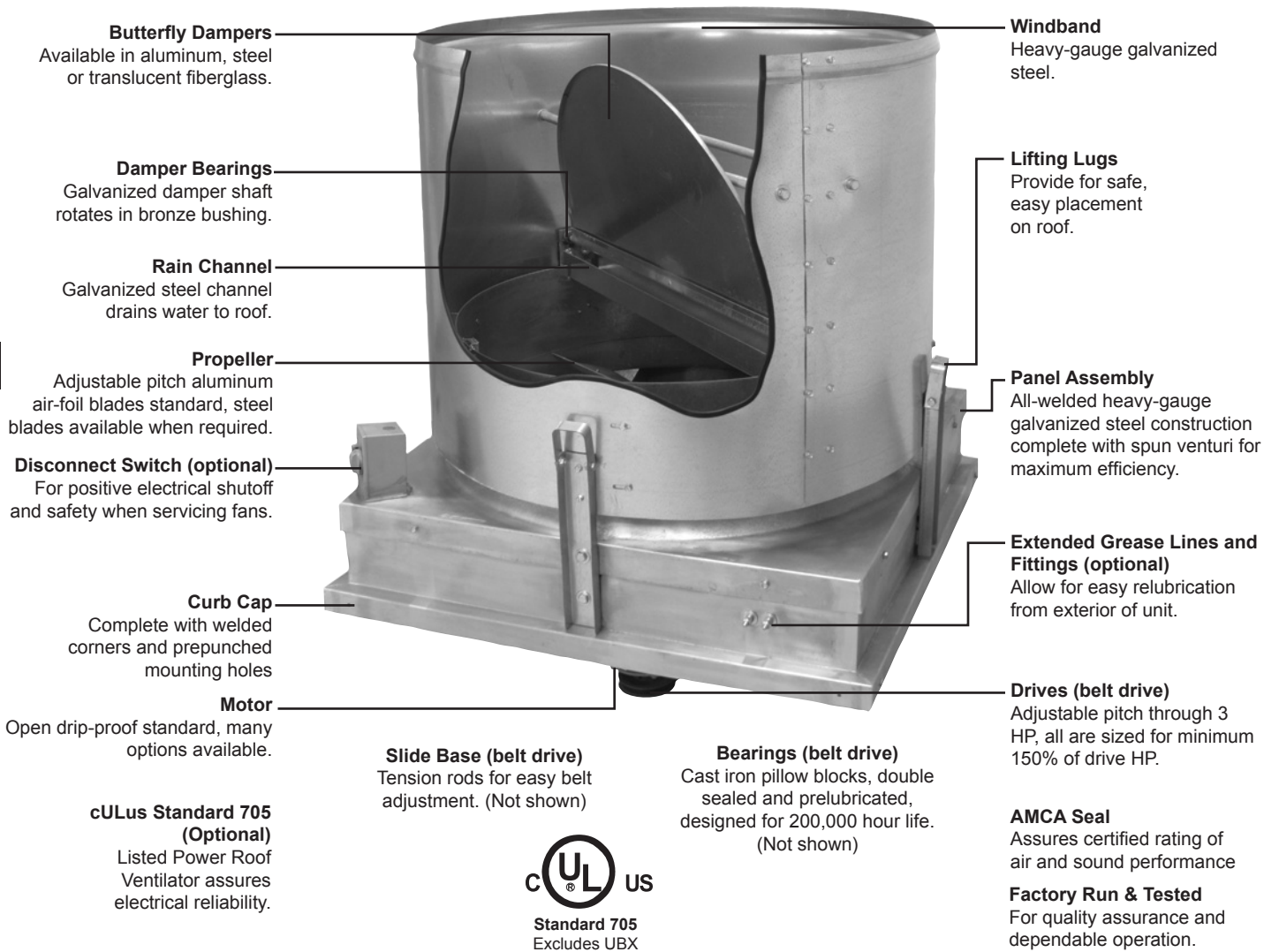
Belt drive units usually operate more quietly and afford easier performance adjustments, while direct drive models require less maintenance.

1 year fan housing warranty, 1 year motor warranty

All specifications are subject to change without notice unless approved in submittal by Soler & Palau.



CONSTRUCTION FEATURES AND OPTIONS



Butterfly Dampers

Available in aluminum, steel or translucent fiberglass.

Damper Bearings

Galvanized damper shaft rotates in bronze bushing.

Rain Channel

Galvanized steel channel drains water to roof.

Propeller

Adjustable pitch aluminum air-foil blades standard, steel blades available when required.

Disconnect Switch (optional)

For positive electrical shutoff and safety when servicing fans.

Curb Cap

Complete with welded corners and prepunched mounting holes

Motor

Open drip-proof standard, many options available.

cULus Standard 705 (Optional)

Listed Power Roof Ventilator assures electrical reliability.

Slide Base (belt drive)

Tension rods for easy belt adjustment. (Not shown)

Bearings (belt drive)

Cast iron pillow blocks, double sealed and prelubricated, designed for 200,000 hour life. (Not shown)



Standard 705
Excludes UBX

Windband

Heavy-gauge galvanized steel.

Lifting Lugs

Provide for safe, easy placement on roof.

Panel Assembly

All-welded heavy-gauge galvanized steel construction complete with spun venturi for maximum efficiency.

Extended Grease Lines and Fittings (optional)

Allow for easy relubrication from exterior of unit.

Drives (belt drive)

Adjustable pitch through 3 HP, all are sized for minimum 150% of drive HP.

AMCA Seal

Assures certified rating of air and sound performance

Factory Run & Tested

For quality assurance and dependable operation.



CONSTRUCTION/SPECIFICATION CHECKLIST

Panel Assembly

- Heavy-gauge G90 galvanized steel panel on all sizes.
- One piece venturi for maximum efficiency.
- All welded support structure of schedule 40 galvanized pipe.
- Motor/bearing plates of minimum 10 gauge galvanized steel.

Windband/Butterfly Dampers

- Heavy-gauge galvanized steel windband.
- Steel dampers standard (except on sizes 48-72).
- Translucent fiberglass dampers available on all sizes (standard on sizes 48-72).
- Galvanized rain channel drains water from damper area to roof.
- Galvanized damper shaft rotates in bronze bushing.

Propeller

- Two, three, four or six airfoil aluminum blades.
- Steel hub plate with steel taper lock bushing.
- Adjustable pitch for optimum efficiency.
- Die formed steel blades are optional where required.

Drives (belt drive models)

- Sized for minimum 150% of drive horsepower.
- Single belt adjustable pitch sheaves through 3HP.
- Two belt fixed pitch sheaves through 10HP.
- Three belt fixed pitch sheaves on 15 HP.
- Adjustable pitch sheaves are optional above 3HP.
- Adjustable tension rods for belt adjustment.
- Nonstatic oil resistant v-belts.
- Keyed, turned, ground and polished shafts.

Bearings

- Bearings designed for minimum 200,000 hour life, L50.
- Cast iron self-aligning pillow block ball bearings.
- Bearings are sealed, prelubricated with relube fittings.

Motors

- Brands are nationally recognized and locally serviced.
- Open drip-proof construction is standard.
- High-efficiency, explosion proof, totally enclosed fan cooled (TEFC) and corrosion duty motors can be specified.

Certifications

- AMCA Air & Sound Licensed.
- cULus 705 listed power roof ventilator assures electrical reliability (optional). Excludes UBX.



OPTIONS/ACCESSORIES

Roof Curb: Prefabricated heavy-gauge galvanized steel, Clip Lock, 14" high with 1-1/2" wood nailer. Options include burglar bars, single and double pitch construction, and additional curb heights. Welded & custom curbs available.

Disconnect Switch: Nonfused safety disconnects are available for all motor sizes in rain-tight or open enclosures.

Magnetic Latches: Help reduce damper chatter when the units are not in operation.

Heat/Smoke Vent: Opens damper doors when temperature exceeds 165°F. Allows heat and smoke to escape building without use of fan power.

Outlet Guard: 1/2" x 1" wire mesh guard will prevent birds and other objects from entering fan.

Extended Grease Lines: Extended grease lines allow fan bearings to be relubricated from the exterior.

Aluminum Construction: Optional aluminum construction available on windbands, curb caps, panel and blades.

Special Coatings: Powered roof exhausters often require special coatings for protective and decorative purposes. Available coatings include: Synthetic Resin, Epoxy, and Heresite (air-dried phenolic). Contact your representative or the factory for more information on available coatings and colors.



PERFORMANCE

UBB - Belt Drive

Model UBB	CFM @ Static Pressure					HP	RPM	Blades / Pitch	Max. BHP	Sones @ 5 ft.
	0	1/8	1/4	3/8	1/2					
24	7180	6500	5720	4800	-	3/4	1210	3	0.82	22
	7920	7300	6610	5880	-	1	1335	3	1.11	25
	9080	8550	7960	7340	6600	1-1/2	1525	3	1.65	32
	10000	9500	9000	8450	7900	2	1680	3	2.21	37
30	9398	8323	7039	5381	3254	1	960	3	1.14	25
	10670	9740	8685	7436	5389	1-1/2	1090	3	1.67	33
	11747	10910	9987	8941	7716	2	1200	3	2.23	39
	13411	12686	11907	11059	10118	3	1370	3	3.33	46
36	13279	11086	-	-	-	1	700	3	1.26	21
	15081	13170	11062	-	-	1-1/2	795	3	1.85	27
	16978	15289	13502	11351	-	2	895	3	2.64	32
	19349	17872	16345	14714	12675	3	1020	3	3.91	37
42	19800	16800	-	-	-	1-1/2	640	3	1.68	25
	22100	19300	16000	-	-	2	710	3	2.30	30
	25000	22600	19800	16800	-	3	805	3	3.35	37
	29700	27600	25300	23000	20300	5	950	3	5.51	45
48	26300	22500	17600	-	-	2	575	3	2.31	25
	30200	26700	22700	17800	-	3	655	3	3.41	34
	35500	32500	29400	25800	21500	5	770	3	5.54	45
	40600	38000	35300	32600	29300	7-1/2	880	3	8.27	54
54	44800	42500	40100	37500	34800	10	970	3	11.07	60
	35000	30200	24200	-	-	3	545	3	3.39	28
	41200	36900	32500	27000	-	5	640	3	5.49	40
	47200	43700	39800	35700	30900	7-1/2	735	3	8.32	50
60	51800	48500	45000	41300	37400	10	805	3	10.92	58
	48200	42600	36000	27800	-	5	550	3	5.50	38
	55200	50300	45000	38800	-	7-1/2	630	3	8.27	51
	61000	56600	51900	46700	40700	10	695	3	11.10	60
72	61700	51900	40500	-	-	5	410	3	5.47	31
	70700	62300	53200	-	-	7-1/2	470	3	8.24	42
	70800	62800	52800	53300	-	10	520	3	11.15	50

Performance shown is for installation type A: free inlet, free outlet Power Rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances in the airstream.

The sound ratings shown are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels. The AMCA ratings sound seal applies to sone ratings only.



UBX - Direct Drive

Model UBX	CFM @ Static Pressure					HP	RPM	Blades / Pitch	Max. BHP	Sones @ 5 ft.
	0	1/8	1/4	3/8	1/2					
24	5900	5200	-	-	-	1/2	870	6	0.54	15
	6300	5400	-	-	-	1/2	1160	2	0.55	18
	6900	6300	5600	-	-	3/4	1160	3	0.81	22
	7400	6900	6400	5700	-	1	1160	6	1.10	23
	6600	6100	5500	4900	-	3/4	1750	2	0.82	30
	7500	7100	6500	5900	5200	1	1750	2	1.09	32
	9100	8500	7900	7300	6600	1-1/2	1750	2	1.63	36
	7700	7200	6800	6300	5800	2	1750	3	1.86	42
	11200	10800	10400	10000	9700	3	1750	4	3.30	54
	30	10100	8700	-	-	-	3/4	870	4	0.83
10600		9400	7900	-	-	1	870	6	1.11	22
9800		8500	-	-	-	3/4	1160	2	0.81	27
10900		9600	8300	-	-	1	1160	2	1.08	30
12300		11300	10100	8600	-	1-1/2	1160	3	1.62	34
13800		12900	11900	10700	-	2	1160	4	2.20	37
10800		10000	9100	8200	9100	1-1/2	1750	2	1.65	44
12800		12000	11200	10400	9500	2	1750	2	2.19	48
15800		15000	14100	13200	12300	3	1750	2	3.30	58
18600		17900	17200	16500	15600	5	1750	3	5.51	70

Performance certified is for installation type A - free inlet, free outlet. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels Speed (RPM) shown is nominal. Performance is based on actual speed of test.



S&P, Div. of Soler & Palau Ventilation Group, certifies that the Models UBB and UBX shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



UBX - Direct Drive (Cont.)

Model UBX	CFM @ Static Pressure					HP	RPM	Blades / Pitch	Max BHP	Sones @ 5 ft.
	0	1/8	1/4	3/8	1/2					
36	14200	12000	-	-	-	1	870	2	1.10	23
	15900	14300	12500	-	-	1-1/2	870	4	1.64	25
	17700	16200	14300	12400	-	2	870	4	2.17	33
	18900	17700	16300	14800	12700	3	870	6	3.24	36
	15700	14200	12400	-	-	1-1/2	1160	2	1.65	36
	17600	16000	14300	12200	-	2	1160	2	2.19	38
	20000	18400	16700	14900	12700	3	1160	2	3.32	42
	23000	22000	20700	19400	18000	5	1160	4	5.40	58
	17900	16700	15500	14300	13100	3	1750	2	3.26	75
	23700	22800	21700	20700	19500	5	1750	2	5.60	77
27400	26500	25300	24200	23100	7-1/2	1750	2	8.20	78	
42	20400	17800	14000	-	-	1-1/2	870	2	1.60	28
	22800	19800	16700	-	-	2	870	2	2.24	31
	25400	23500	21400	19100	15900	3	870	4	3.27	33
	20800	18700	16200	13300	-	2	1160	2	2.23	42
	25200	23200	20900	18300	15000	3	1160	2	3.18	44
	30800	28300	26000	23600	21500	5	1160	2	5.58	50
	34600	33300	31800	30200	28500	7-1/2	1160	4	8.20	58
	32800	30000	30000	28500	-	7-1/2	1750	2	8.15	92
48	26200	22800	19700	-	-	2	870	2	2.17	33
	30800	27200	23200	18600	-	3	870	2	3.35	38
	36300	33500	30500	27000	21500	5	870	3	5.60	42
	40300	37700	34800	31800	27600	7-1/2	870	3	8.27	48
	27900	25000	22100	19700	-	3	1160	2	3.40	49
	35900	33500	31000	28900	24300	5	1160	2	5.55	57
	41800	39300	36500	33900	30700	7-1/2	1160	2	8.23	67
	45800	43000	40200	37400	34500	10	1160	2	11.10	69
54	35700	31600	26700	19400	-	3	870	2	3.28	47
	43900	39200	34600	29300	21900	5	870	2	5.55	54
	48900	45500	41900	38100	33300	7-1/2	870	3	8.32	59
	38500	35200	31800	28300	25000	5	1160	2	5.55	68
	49200	46400	43000	39700	35700	7-1/2	1160	2	8.40	75
	55600	52500	49200	46400	41900	10	1160	2	11.20	77
60	57200	52600	47500	41800	35100	7-1/2	870	2	8.30	64
72	65500	59000	52000	44000	-	7-1/2	870	2	8.24	78

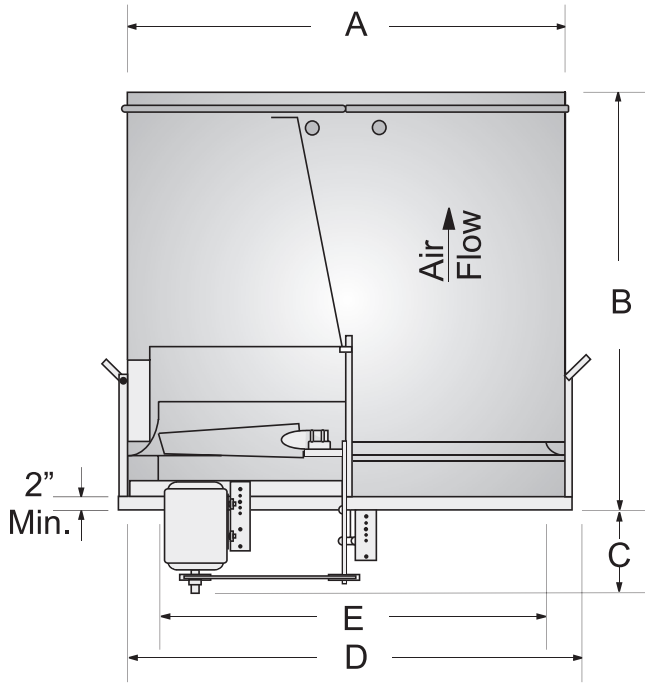
Performance certified is for installation type A - free inlet, free outlet. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels Speed (RPM) shown is nominal. Performance is based on actual speed of test.



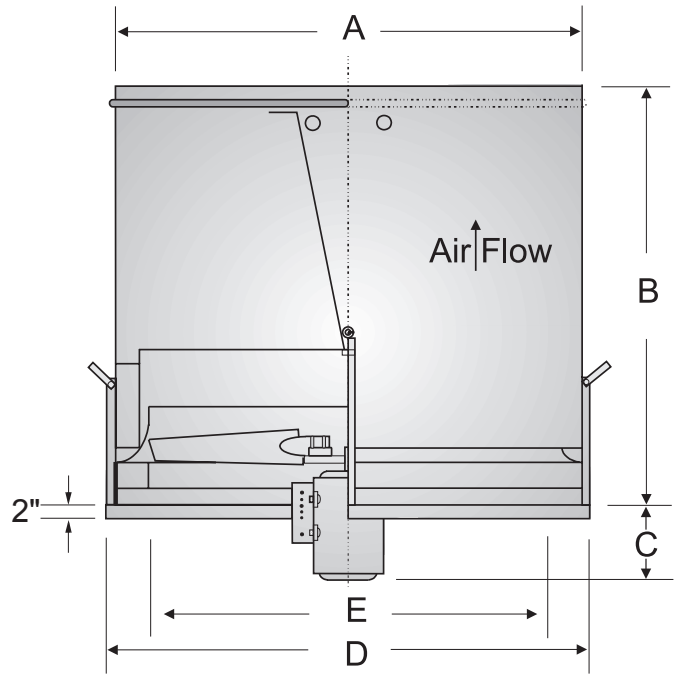
S&P, Div. of Soler & Palau Ventilation Group, certifies that the Models UBB and UBX shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



DIMENSIONS



Model UBB - Belt Drive



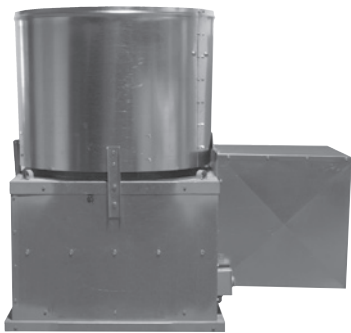
Model UBX - Direct Drive

Size	Dimensions (Inches)							Metal Gauges			Avg. Wt.
	A	B	C	D Sq.	E Sq.	F Sq.	G Sq.	Wind-band	Curb Cap	Fan Panel	
24	30	33	16	32	24	31	28	18	16	16	310
30	36	36	17	38	30	37	34	18	16	16	340
36	42	38	17	44	36	43	40	18	16	16	430
42	48	41	18	50	42	49	46	18	16	16	490
48	54	44	22	56	48	55	52	18	14	16	640
54	60	47	22	62	54	61	58	18	14	14	840
60	66	50	22	68	60	67	64	18	14	14	1000
72	80	56	31	82	72	81	78	18	12	12	1550

- A** - Outside dimension of windband.
- B** - Height of unit above curb cap.
- C** - Maximum depth of unit below top of curb, actual depth varies with motor size.
- D** - Inside dimension of square curb cap.
- E** - Minimum inside dimension of curb opening required for adequate clearance of fan frame.
- F** - Outside dimension of factory built pre-fab curb.
- G** - Recommended roof opening (inside dimension of factory built prefab curb.)

MODEL UBRD

REMOTE DRIVE UPBLAST PROPELLER ROOF EXHAUSTER



MODEL FEATURES

- Exhaust air up to 72,000 CFM in static pressure applications up to 1/2" w.g.
- Straight-through air flow design results in maximum exhaust efficiency
- Motor and drives are located outside of the exhaust airstream
- Belt drives permit easy performance adjustments when needed
- cULus 705 Listed

MODEL OVERVIEW

Model UBRD units are high capacity belt driven roof mounted exhausters rated from 4,500 to 72,000 CFM. The motor and drives are located outside of the exhaust airstream, making these units especially suited for the removal of heated or contaminated air from commercial and industrial buildings or processes where these conditions exist. All models are capable of continuous operation exhausting air to 200°F.

The remote drive construction allows for easy rooftop belt and motor access for maintenance. For increased air performance (in clean conditions) with the same easy maintenance access, the UBRD is available without the belt and bearing enclosures.

Straight-through air flow design results in maximum exhaust efficiency. During operation, high air flow velocity opens butterfly dampers and prevents rain or snow from entering. Dampers close and cover the venturi opening when unit is not in use.

The roof mounted location eliminates interference with processes and equipment inside the building. It also permits locating the exhauster over a source of heated or contaminated air, allowing direct upward venting to the outside, unlike wall mounted exhausters which may move contaminated air through adjacent work spaces.

1 year fan housing warranty, 1 year motor warranty

All specifications are subject to change without notice unless approved in submittal by Soler & Palau.



CONSTRUCTION/SPECIFICATION CHECKLIST

Panel Assembly

- Heavy-gauge G90 galvanized steel panel, size 24-72.
- One piece venturi for maximum efficiency and strength.
- All welded support structure of schedule 40 galvanized pipe (minimum).
- Motor/bearing plates of minimum 10 gauge galvanized steel.

Windband/Butterfly Dampers

- Heavy-gauge galvanized steel windband.
- Steel dampers standard (except on sizes 48-72).
- Translucent fiberglass dampers available on all sizes (standard on sizes 48-72).
- Galvanized rain channel drains water from damper area to roof.
- Galvanized damper shaft rotates in bronze bushing.

Propeller

- Two, three, four or six airfoil aluminum blades.
- Steel hub plate with steel taper lock bushing.
- Adjustable pitch for optimum efficiency.
- Die formed steel blades are optional where required.

Drives

- Shielded from airstream by galvanized steel enclosure.
- Sized for minimum 150% of drive horsepower.
- Single belt adjustable pitch sheaves through 3HP.
- Two belt fixed pitch sheaves through 10HP.
- Adjustable pitch sheaves are optional above 3HP.
- Adjustable tension rods for belt adjustment.
- Nonstatic oil resistant v-belts.
- Keyed, turned, ground and polished shafts.

Bearings

- Bearings designed for minimum 200,000 hour life, L50.
- Cast iron self-aligning pillow block ball bearings.
- Bearings are sealed, prelubricated with relube fittings.

Motors

- Located outside airstream under weather cover.
- Brands are nationally recognized and locally serviced.
- Open drip-proof construction is standard.
- High-efficiency, explosion proof, totally enclosed fan cooled (TEFC) and corrosion duty motors can be specified.

Certifications

- cULus 705 listed power roof ventilator assures electrical reliability (optional).



OPTIONS/ACCESSORIES

Roof Curb: Prefabricated heavy-gauge galvanized steel, Clip Lock, 14" high with 1-1/2" wood nailer. Options include burglar bars, single and double pitch construction, and additional curb heights. Welded & custom curbs available.

Disconnect Switch: Nonfused safety disconnects are available for all motor sizes in rain-tight or open enclosures.

Magnetic Latches: Help reduce damper chatter when the units are not in operation.

Heat/Smoke Vent: Opens damper doors when temperature exceeds 165°F. Allows heat and smoke to escape building without use of fan power.

Outlet Guard: 1/2" x 1" wire mesh guard will prevent birds and other objects from entering fan.

Extended Grease Lines: Extended grease lines allow fan bearings to be relubricated from the exterior.

Aluminum Construction: Optional aluminum construction available on windbands, curb caps, panel and blades.

Special Coatings: Powered roof exhausters often require special coatings for protective and decorative purposes. Available coatings include: Synthetic Resin, Epoxy, and Heresite (air-dried phenolic). Contact your representative or the factory for more information on available coatings and colors.



MODEL UBRD

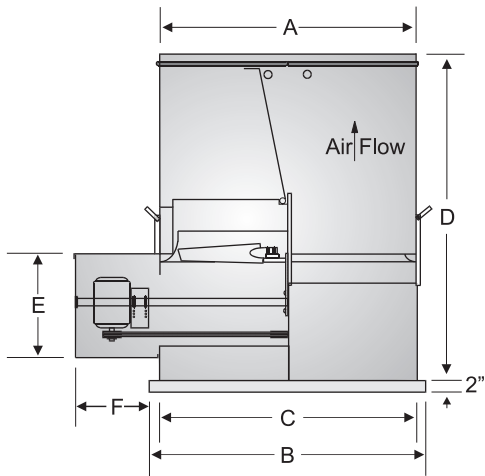
REMOTE DRIVE UPBLAST PROPELLER ROOF EXHAUSTER



PERFORMANCE

Model UBRD	CFM @ Static Pressure					HP	RPM	Blades / Pitch	Max BHP	Sones @ 5 ft.
	0	1/8	1/4	3/8	1/2					
24	6605	5980	5262	4416	-	3/4	1210	3	0.82	20
	7286	6715	6081	5410	-	1	1335	3	1.11	23
	8353	7866	7323	6752	6127	1-1/2	1525	3	1.65	30
	9200	8740	8280	7774	7268	2	1680	3	2.21	35
30	10230	9114	7812	-	-	1	960	3	1.15	23
	11625	10602	9579	8370	-	1-1/2	1090	3	1.69	31
	12741	11904	10881	9858	8742	2	1200	3	2.25	37
	14508	13764	12927	12090	11160	3	1370	3	3.35	44
36	12861	10752	-	-	-	1	700	3	1.10	19
	14688	12768	10656	-	-	1-1/2	795	3	1.57	25
	16512	14880	12960	10848	-	2	895	3	2.30	30
	18816	17280	15744	14112	12192	3	1020	3	3.48	35
42	18414	15624	-	-	-	1-1/2	640	3	1.68	23
	20553	17949	14880	-	-	2	710	3	2.30	28
	23250	21018	18414	15624	-	3	805	3	3.35	35
	27261	25668	23529	21390	18879	5	950	3	5.51	43
48	24196	20700	16192	-	-	2	575	3	2.31	23
	27784	24564	20884	16376	-	3	655	3	3.41	32
	32660	29900	27048	23736	19780	5	770	3	5.54	43
	37352	34960	32476	29992	26956	7-1/2	880	3	8.27	52
54	41216	39100	36892	34500	32016	10	970	3	11.07	58
	33250	28690	22990	-	-	3	545	3	3.39	26
	39140	35055	30875	25650	-	5	640	3	5.49	38
	44840	41515	37810	33915	29335	7-1/2	735	3	8.32	48
60	49210	46075	42750	39235	35530	10	805	3	10.92	56
	44826	39618	33480	25854	-	5	550	3	5.50	36
	51336	46779	41850	36084	-	7-1/2	630	3	8.27	49
72	56730	52638	48267	43431	37851	10	695	3	11.10	58
	57381	48267	37665	-	-	5	410	3	5.47	29
	65751	57939	49476	-	-	7-1/2	470	3	8.24	40
	72726	65844	58404	49569	-	10	520	3	11.15	48

DIMENSIONS



Model UBRD	Dimensions (Inches)						
	A	B	C	D	E	F	G
24	30	32	30	50	22	16	31
30	36	38	36	54	22	16	37
36	42	44	42	56	22	16	43
42	48	50	48	59	22	16	49
48	54	56	54	68	22	22	55
54	60	62	60	70	22	22	61
60	66	68	66	74	22	22	67
72	80	82	80	86	22	22	81

- A - Outside dimension of windband.
- B - Inside dimension of square curb cap.
- C - Inside dimension of square fan base.
- D - Height of unit above curb.
- E - Height of motor cover.
- F - Length of motor cover.
- G - Outside dimension of factory built prefab curb.

MODEL TUB

TUBEAXIAL UPBLAST PROPELLER ROOF EXHAUSTER



MODEL FEATURES

- Exhaust air up to 60,116 CFM in static pressure applications up to 1" w.g.
- Straight-through air flow design results in maximum exhaust efficiency
- Motor and drives are located outside of the exhaust airstream
- Belt drives permit easy performance adjustments when needed
- cULus 705 Listed

MODEL OVERVIEW

Model TUB is designed for high capacity industrial and commercial roof exhaust applications. The remote drive configuration of the TUB is especially suited for the removal of fumes, vapors, steam, dust, smoke and contaminated or heated air. Belt drive models are available for continuous operation in air temperatures to 200°F. For temperature ratings to 1000°F and/or IRI requirements refer to Model TUB-HT

Capacities range from 6,210 to 60,116 CFM and up to 1" static pressure. Fan selections are available in 24, 30, 36, 42, 48, 54 and 60 inch sizes. Horsepowers range from 3/4 to 15HP. Blade selections are available in aluminum, steel, or fiberglass reinforced polypropylene (see capacity charts for performances). Units are tested in accordance with AMCA 301 (sound) and AMCA 210 (air) in an AMCA certified laboratory. Every unit is completely assembled and factory tested for quality assurance prior to shipment.

1 year fan housing warranty, 1 year motor warranty

All specifications are subject to change without notice unless approved in submittal by Soler & Palau.



CONSTRUCTION FEATURES AND OPTIONS

Butterfly Dampers
Available in steel or fiberglass.

Blades
Statically and dynamically balanced aluminum airfoil extrusion or polypropylene propellers for optimum performance. High temperatures fans use steel blades.

Damper Bearings
Damper doors pivot on a galvanized steel shaft rotating in two bronze bushings.

Lift Points
For easy, safe roof placement.

Curb Cap
Heavy-gauge galvanize with integral inlet.

Bearings & Shaft
200,000 hour bearings and turned, ground and polished shafting.

Factory Run & Tested
Assures dependable operation.

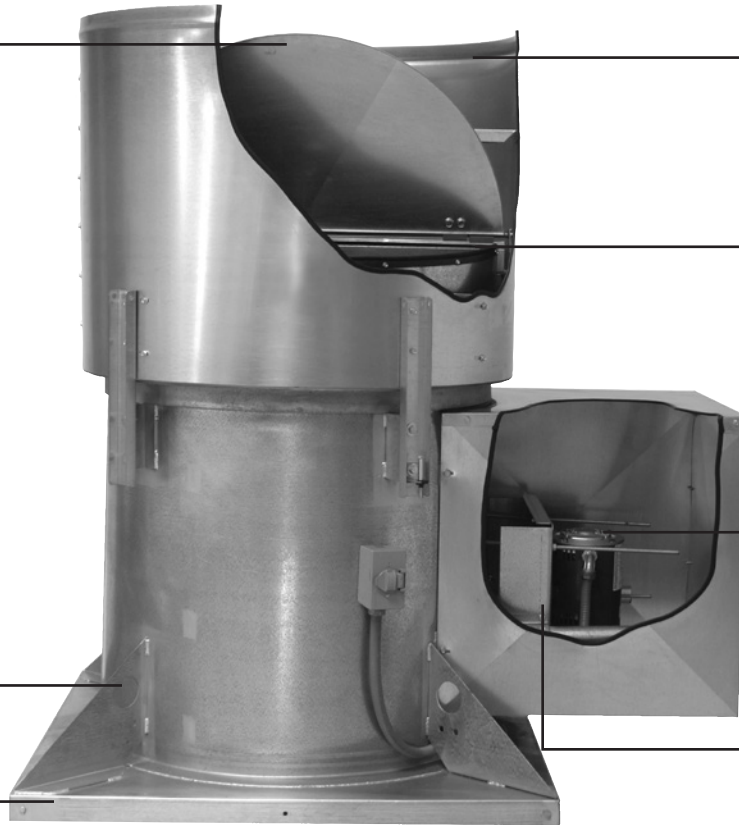
Windband
Heavy-gauge galvanized steel.

Rain Channel
Galvanized metal channel section drains water out of the fan area when the damper doors are closed.

Motors
ODP, 2-speed, TEFC, corrosion duty, or explosion proof.

Motor Slide Base
For ease of belt adjustment.

Drives
Variable pitch through 3HP and fixed pitch sheaves 5HP and larger. High temperature fan uses minimum dual groove sheaves.





CONSTRUCTION/SPECIFICATION CHECKLIST

Construction

The TUB series is built with heavy-gauge steel to provide years of reliable service. Tubes 24-60" (to 10HP) are G-90 galvanized steel. Sizes 24-60" have rolled 2" flanged ends.

The TUB series is also available in aluminum construction sizes 24-48" with welded aluminum angle flanges on each end.

Upblast fans include a heavy-gauge galvanized steel windband with pressure operated damper doors. A galvanized channel section drains water out of the fan area when the damper doors are closed.

All fans are available in epoxy, heresite or polyester resin finishes. Special colors can be ordered. Contact your representative for the cost and finish best suited for your application.

Blades

For versatility, blades are offered in special high-strength, adjustable pitch aluminum airfoil, or adjustable pitch fiberglass reinforced polypropylene. TUB units with special steel blades are available upon request. These styles were selected to provide optimum performance and strength at low to moderate noise levels. Refer to the performance tables for the best selection.

The adjustable pitch aluminum airfoil propeller performs over a wide range of static pressures. This blade's strength is derived from matching T-6061 extruded aluminum airfoil sections to a heavy steel plate hub. All S&P blades are statically and dynamically balanced.

The highly corrosive resistant polypropylene blade's efficiency is due to the uniform twisting of the airfoil section over its entire length, resulting in less turbulence. The operating parameters are -40°F to 185°F ambient temperatures. Hubs are produced from die cast aluminum resulting in a light weight, high strength factory adjustable pitch blade.

Drives

This belt drive model comes with 200,000 hour L50 relubricable pillow block bearings and remote grease lines as a standard feature. Bearings and drives are isolated from the airstream by bolted, heavy-gauge galvanized belt tubes and bearing covers. Belt drive models through 3HP ship with variable pitch pulleys; over 3HP have fixed pulleys. The motor base slides for easy belt adjustment. All units are factory assembled and test run for quality assurance.

Motors

Motors used in the TUB series are heavy-duty, nationally recognized, with nationwide service centers. Standard motors are open drip-proof (ODP). High efficiency, totally enclosed fan cooled (TEFC), explosion proof, and corrosion duty motors are available as an option.

Fan shafts shall be turned, ground and polished steel coated with an anti-rust compound to resist corrosion.

OPTIONS/ACCESSORIES

Roof Curb: Prefabricated heavy-gauge galvanized steel, Clip Lock, 14" high with 1-1/2" wood nailer. Options include burglar bars, single and double pitch construction, and additional curb heights. Welded & custom curbs available.

Outlet Guard: 1/2" x 1" wire mesh guard will prevent birds and other objects from entering fan.

Inspection Door: For inspection and blade service/cleaning.

Magnetic Latches: Helps reduce damper chatter when the unit is not in operation.

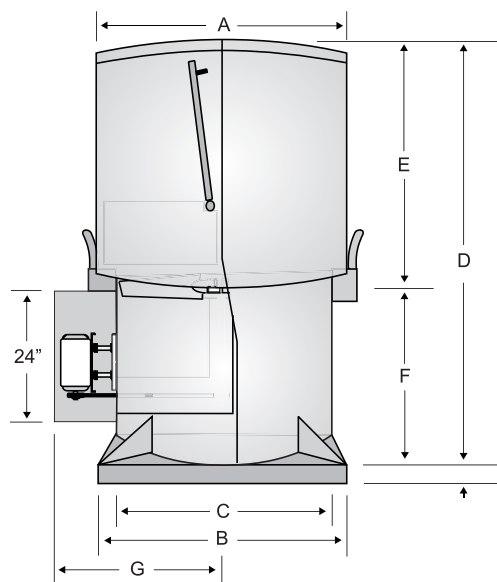
Heat/Smoke Vent: Opens damper doors when temperatures exceed 165°F. Allows heat and smoke to escape building without use of fan power.

Disconnect Switch: Nonfused safety disconnects are available for all motor sizes in rain-tight or open enclosures.

Aluminum Construction: Optional aluminum construction available on windbands, curb caps, panel and blades.

Special Coatings: Powered roof exhausters often require special coatings for protective and decorative purposes. Available coatings include: Synthetic Resin, Epoxy, and Heresite (air-dried phenolic). Contact your representative or the factory for more information on available coatings and colors.

DIMENSIONS



Model TUB	Dimensions (Inches)						
	A O.D Windband	B sq. I.D. Curb Cap	C sq. Min. I.D. Opg	D Height	E Windband Height	F Tube Height	G (Max.)
24	30	35	25-1/8	55-1/2	25	30-1/2	37
30	36	41	31-1/8	58-1/2	28	30-1/2	40
36	42	47	37-1/8	60-1/2	30	30-1/2	43
42	48	53	43-1/8	65-1/2	33	32-1/2	46
48	54	59	49-1/8	68-1/2	36	32-1/2	49
54	60	65	55-1/8	71-1/2	39	32-1/2	52
60	66	71	61-1/8	74-1/2	42	32-1/2	55

Model TUB	Metal Gauges			Average Weight
	Fan Housing	Wind Shroud	Curb Cap	
24	12	18	14	500
30	12	18	14	600
36	12	18	14	1000
42	12	18	14	1100
48	10	18	14	1300
54	10	18	14	1580
60	10	18	10	1700

**PERFORMANCE****Model TUB-A - Belt Drive - Aluminum Blade**

Model TUB	CFM / BHP @ Static Pressure								HP	RPM	No. of Blades	Max. BHP	Sones @ 5 ft.
	0	1/8	1/4	3/8	1/2	5/8	3/4	1					
24	6210	5807	5171	4321	-	-	-	-	3/4	1200	3	0.83	19
	6805	6443	5948	5201	4415	-	-	-	1	1315	3	1.09	24
	7840	7537	7162	6651	5979	5306	4519	-	1-1/2	1515	3	1.65	29
	8668	8398	8081	7688	7156	6544	5936	4531	2	1675	3	2.22	38
30	9035	8175	6911	-	-	-	-	-	3/4	915	3	0.83	23
	9973	9213	8219	6789	-	-	-	-	1	1010	3	1.11	24
	11405	10755	9989	8955	7664	6304	-	-	1-1/2	1155	3	1.65	32
	12590	12009	11351	10554	9495	8312	7079	-	2	1275	3	2.21	38
	14318	13813	13262	12642	11903	10974	9935	7778	3	1450	3	3.22	45
36	13854	12440	10596	-	-	-	-	-	1	815	3	1.10	20
	15894	14689	13275	11404	9161	-	-	-	1-1/2	935	3	1.66	26
	17424	16337	15110	13611	11713	9660	-	-	2	1025	3	2.19	30
	19719	18769	17734	16568	15162	13476	11652	-	3	1160	3	3.14	36
	23798	23021	22201	21324	20373	19306	18074	15197	5	1400	3	5.47	68
	27028	26347	25639	24897	24114	23277	22371	20220	7-1/2	1590	3	7.97	89
42	14588	-	-	-	-	-	-	-	3/4	550	4	0.84	22
	16046	14024	11621	-	-	-	-	-	1	605	4	1.04	23
	18300	16539	14632	12265	-	-	-	-	1-1/2	690	4	1.57	24
	20157	18561	16898	14949	12723	-	-	-	2	760	4	2.11	29
	23074	21682	20029	18749	16978	15038	12727	-	3	870	4	3.28	36
	27349	26140	24961	23751	22474	21049	19441	15994	5	1030	4	5.17	45
	32037	30976	29849	28647	27358	25974	24473	21207	7-1/2	1310	3	7.87	57
48	20266	16694	-	-	-	-	-	-	1	500	4	1.12	24
	23104	20044	16726	-	-	-	-	-	1-1/2	570	4	1.67	25
	25536	22821	19815	16733	-	-	-	-	2	630	4	2.25	26
	29184	26863	24237	21647	18899	14356	-	-	3	720	4	3.33	35
	34656	32749	30623	28375	26210	23907	21375	-	5	855	4	5.51	43
	39519	37871	36068	34141	32163	30271	28304	23692	7-1/2	975	4	7.88	51
54	45327	43576	41742	39672	37424	35052	32652	28246	10	1175	4	10.87	73
	31028	26996	23045	19851	-	-	-	-	3	600	4	3.09	33
	38951	35127	30055	26760	24164	18353	-	-	5	710	4	5.32	44
	44741	41411	37455	32829	29414	26206	20758	-	7-1/2	850	3	7.91	54
60	49215	46040	42878	38781	34681	31975	29019	18913	10	935	3	10.89	62
	33008	22992	-	-	-	-	-	-	3	485	3	3.15	38
	39133	31577	24734	-	-	-	-	-	5	575	3	5.18	39
60	44918	38963	30343	27344	-	-	-	-	7-1/2	660	3	8.15	51
	49342	44124	36563	31592	-	-	-	-	10	725	3	10.93	59

Contact factory for alternate selections if required.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301 @ free air.

Brake horsepower does not include drive losses.

Values are installation Type A, free inlet fan sone levels.

Performance shown is for types and units without inlet or outlet ducts.



Model TUB-P - Belt Drive - Polypropylene Blade

Model TUB	CFM / BHP @ Static Pressure								HP	RPM	No. of Blades	Max. BHP	Sones @ 10 ft.
	0	1/8	1/4	3/8	1/2	5/8	3/4	1					
24	6350	5962	5491	4980	-	-	-	-	3/4	1275	6	0.75	17
	6998	6680	6180	5755	5268	4595	-	-	1	1390	6	1.00	20
	8265	7943	7615	7267	6873	6421	5382	-	1-1/2	1615	6	1.50	26
	9246	8996	8697	8408	8190	7731	6942	5382	2	1800	6	2.00	36
	10626	10323	10121	9875	9619	9342	8731	8042	3	2050	6	3.00	39
30	8697	7942	6919	-	-	-	-	-	3/4	975	6	0.75	19
	9775	9121	8323	7321	-	-	-	-	1	1080	6	1.00	20
	11515	10920	10321	9646	8797	7870	-	-	1-1/2	1250	6	1.50	24
	12821	12222	11727	11224	10523	9719	7823	-	2	1375	6	2.00	26
	14525	14029	13623	13124	12628	12031	10741	8914	3	1550	6	3.00	34
36	17514	17112	16694	16301	15913	15491	14631	13585	5	1850	6	5.00	52
	14809	13921	12488	11222	8630	-	-	-	1-1/2	930	6	1.50	24
	16823	16002	14911	13692	12481	10275	-	-	2	1040	6	2.00	28
	19331	18540	17681	16791	15710	14722	11081	-	3	1180	6	3.00	34
	22940	22026	21560	20890	20018	19230	17450	15008	5	1385	6	5.00	39
42	26230	25850	25120	24562	23900	23243	21900	20144	7-1/2	1585	6	7.50	50
	29020	28671	28028	27670	27016	26560	25048	24010	10	1750	6	10.00	71
	17451	15670	13561	10019	-	-	-	-	1-1/2	750	6	1.50	20
	19563	17981	16195	14986	10126	8126	-	-	2	825	6	2.00	32
	22893	21562	20128	18673	16892	14457	-	-	3	950	6	3.00	33
48	27670	26551	25253	24030	22968	21616	18018	12775	5	1130	6	5.00	39
	31120	30830	30039	29130	28312	27022	24790	21100	7-1/2	1300	6	7.50	50
	34310	33537	32610	31674	30880	29868	27986	25708	10	1420	6	10.00	53
	20303	18249	15126	-	-	-	-	-	1-1/2	620	8	1.50	24
	21414	19321	16364	-	-	-	-	-	2	650	8	2.00	26
54	25236	23381	21684	19291	16061	-	-	-	3	750	8	3.00	28
	30791	29108	27464	25852	24142	22122	15276	-	5	890	8	5.00	36
	35748	34126	32561	31213	29792	28382	24298	18203	7-1/2	1015	8	7.50	50
	39574	38235	36780	35453	34243	33033	30691	26405	10	1120	8	10.00	55
	31896	28991	24252	-	-	-	-	-	3	600	6	3.00	26
60	34454	33006	31283	28892	25962	22632	-	-	5	730	8	5.00	33
	40051	38596	37383	35663	33543	31323	25762	-	7-1/2	835	8	7.50	39
	44750	43544	42334	41124	39504	37683	33343	28192	10	925	8	10.00	43
	51252	50115	49105	48094	46974	45764	42334	38593	15	1040	8	15.00	56
	44454	40914	37683	33704	28292	-	-	-	5	640	6	5.00	36
60	52235	49105	46274	43344	40015	35963	-	-	7-1/2	735	6	7.50	39
	58295	55465	52735	50015	47484	44354	-	-	10	810	6	10.00	50
	60116	58695	57185	55565	54055	52535	49205	45164	15	926	8	15.00	56

Contact factory for alternate selections if required.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301 @ free air.

Brake horsepower does not include drive losses.

Values are installation Type A, free inlet fan sone levels.

Performance shown is for types and units without inlet or outlet ducts.

MODEL TUB-HT

TUBEAXIAL UPBLAST PROPELLER ROOF EXHAUSTER FOR HEAT AND SMOKE REMOVAL



MODEL FEATURES

- Exhaust air up to 57,000 CFM in static pressure applications up to 3/4" w.g.
- Motor and drives are located outside of the exhaust airstream
- Designed and tested for emergency heat and smoke removal
- Successfully passed heat test of 1000°F for 15 minutes and 500°F for over 4 hours
- Belt drives permit easy performance adjustments when needed
- UL 793 Listed as Power Ventilator for Smoke Control Systems

MODEL OVERVIEW

Model TUB-HT has been designed and tested for emergency heat and smoke removal. This design also lends itself to everyday nonemergency high capacity industrial and commercial roof exhaust applications. Model TUB-HT successfully passed heat test of 1000°F for fifteen (15) minutes, and 500°F for over four (4) hours by an independent testing agency. Model TUB-HT exceeds I.R.I. (Industrial Risk Insurers) guidelines and is UL-793 Listed as "Power Ventilator for Smoke Control Systems."

The heavy-gauge design allows for years of standard commercial use and the dependability required in a fire emergency. The upblast configuration exhausts heat and smoke high above the roof line aiding in the access and capabilities of fire fighters. Unlike complete design dependence on gravity vents which are sometimes limited by air temperature and wind velocity, the TUB-HT in conjunction with gravity vents, will more effectively remove smoke, hot air, and gases when used in a properly designed system. In the event of electrical failure, the 165°F fusible link will activate the spring assisted damper doors to provide gravity ventilation. Fan CFM, sizing and location for both exhaust and supply air are an important part of the overall heat and smoke venting building design needs. Refer to I.R.I., NFPA (National Fire Protection Association), and local fire codes for help in proper system design. Final approval for the complete system design should be authorized by the local authority having jurisdiction.

Fan selections are available in 24, 30, 36, 42, 48, 54 and 60 inch sizes. Horsepower and CFM range to 57,000 CFM and 15HP. Units are tested in accordance with AMCA Standard 301 (sound) and AMCA 210 (air) in an AMCA certified laboratory. Every unit is completely assembled and factory tested for quality assurance prior to shipment.

1 year fan housing warranty, 1 year motor warranty



CONSTRUCTION/SPECIFICATION CHECKLIST

1. Successfully heat tested by independent laboratory for:
 - (a) 1000°F for 15 minutes.
 - (b) 500°F for minimum 4 hours.
2. All ferrous construction in airstream.
3. 165°F fusible link in damper mechanism (heat & smoke vent).
4. Motor out-of-airstream design.
5. Belt & bearings enclosed in ventilated housing.
6. Minimum dual groove drive/belt combination.
7. Shaft heat slinger.
8. Extended lubrication lines.
9. UL-793 Listed Power Ventilator for Smoke Control Systems.
10. Meets UL-793 snow load test.

Drives

Motors, bearings and belt are shielded from the airstream by a sheet metal enclosure, with cooling provided by fresh outside air. Drives are sized for a minimum 150% of drive horsepower. Drives are minimum dual groove sheaves through 10 horsepower and three-belt on 15HP. Adjustable sheaves are available as an option. Bearings are heavy-duty cast iron, pillow block with relubricable fittings. Standard bearings are fitted with remote relubricable fittings and designed for minimum 200,000 hour life. All shafts are turned, ground and polished steel coated with an anti-rust compound to resist corrosion.

Electrical Power

Electrical power should be independent of the general building. Wiring requires special, heat resistant qualities as determined by local fire codes. Switching should always be arranged so that automatic start-up can be achieved through safety devices such as, but not limited to, sprinkler systems and smoke or heat sensors.

OPTIONS/ACCESSORIES

Roof Curb: Prefabricated heavy-gauge galvanized steel, Clip Lock, 14" high with 1-1/2" wood nailer. Options include burglar bars, single and double pitch construction, and additional curb heights. Welded & custom curbs available.

Outlet Guard: 1/2" x 1" wire mesh guard will prevent birds and other objects from entering fan.

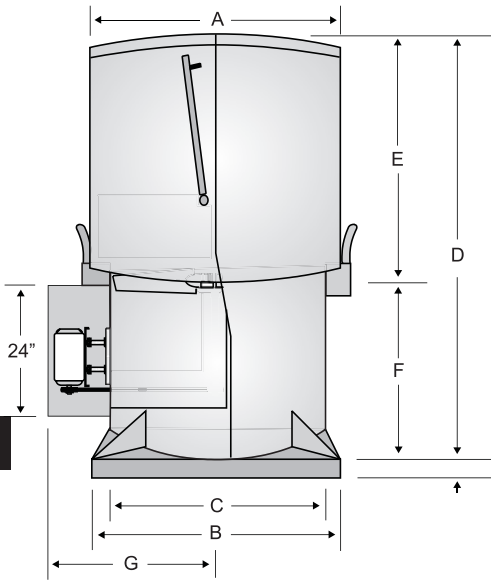
Inspection Door: For inspection and blade service/cleaning.

Disconnect Switch: Nonfused safety disconnects are available for all motor sizes in rain-tight or open enclosures.

Special Coatings: Powered roof exhausters often require special coatings for protective and decorative purposes. Available coatings include: Synthetic Resin, Epoxy, and Heresite (air-dried phenolic). Contact your representative or the factory for more information on available coatings and colors.



DIMENSIONS



Model TUB-HT	Dimensions (Inches)						
	A O.D Windband	B sq. I.D. Curb Cap	C sq. Min. I.D. Opg	D Height	E Windband Height	F Tube Height	G (Max.)
24	30	35	25-1/8	55-1/2	25	30-1/2	37
30	36	41	31-1/8	58-1/2	28	30-1/2	40
36	42	47	37-1/8	60-1/2	30	30-1/2	43
42	48	53	43-1/8	65-1/2	33	32-1/2	46
48	54	59	49-1/8	68-1/2	36	32-1/2	49
54	60	65	55-1/8	71-1/2	39	32-1/2	52
60	66	71	61-1/8	74-1/2	42	32-1/2	55

Model TUB-HT	Metal Gauges			Average Weight
	Fan Housing	Wind Shroud	Curb Cap	
24	12	18	14	500
30	12	18	14	600
36	12	18	14	1000
42	12	18	14	1100
48	10	18	14	1300
54	10	18	14	1580
60	10	18	10	1700

**PERFORMANCE DATA****TUB-HT - Belt Drive - Steel Blade**

Model TUB-HT	CFM / BHP @ Static Pressure							HP	RPM	Max. BHP	Sones @ 5 ft.
	0	1/8	1/4	3/8	1/2	5/8	3/4				
24	6255	5297	4821	4035	-	-	-	3/4	1215	0.78	21
	6975	6494	5328	-	-	-	-	1	1335	1.08	27
	7896	7272	6601	6216	5814	5248	-	1-1/2	1530	1.53	31
	8693	8109	7688	7265	6276	5409	-	2	1750	2.05	40
30	9631	8703	6835	6478	-	-	-	1	1180	1.06	26
	11324	10716	9408	7755	6574	-	-	1-1/2	1155	1.57	29
	11952	11272	10694	9776	8405	7824	-	2	1550	2.09	35
	13871	13059	12491	11234	10295	8173	-	3	1325	3.08	34
	16225	15983	15120	14730	12761	10576	8568	5	1560	5.13	42
36	14173	13128	11822	10471	-	-	-	1-1/2	1015	1.61	28
	15114	14353	13243	11988	10514	8772	7444	2	1160	2.11	32
	18020	16740	16186	14342	10549	9510	7865	3	1140	3.05	38
	20849	20157	19368	18978	16490	14118	11362	5	1245	5.12	53
42	18628	17503	15264	12855	11606	-	-	2	930	2.01	29
	22193	20384	18866	17337	15643	13574	-	3	1140	3.13	38
	25960	24822	23667	22374	20839	19521	18043	5	1140	5.07	48
	29490	28518	28186	26569	24926	23934	19623	7-1/2	1140	7.81	58
48	23071	20547	17036	14446	9318	-	-	2	1060	2.13	31
	27001	25050	22614	18159	12350	-	-	3	745	3.08	32
	32214	30087	28244	24584	21171	17307	-	5	920	5.12	41
	37275	35069	34092	31881	29474	24436	20370	7-1/2	1220	7.61	56
	41738	39120	38422	36114	34990	27506	25067	10	1030	10.81	66
54	28569	25768	22833	18300	-	-	-	3	760	3.04	28
	36440	34307	32085	28209	21065	-	-	5	780	5.16	37
	42632	40823	38562	36009	29864	23065	-	7-1/2	900	7.55	48
	47064	45427	43602	41604	38006	30622	-	10	860	10.08	52
	49325	48358	47390	45974	42307	37941	34800	15	780	15.71	62
60	35718	32721	24429	19438	-	-	-	3	530	3.11	28
	42487	40061	35933	30065	25302	22050	-	5	640	5.18	35
	48378	45938	43009	38690	35690	30406	-	7-1/2	800	7.59	47
	54617	50622	48428	45938	37363	29993	-	10	845	10.13	53
	57143	54850	52557	50264	47971	42759	35297	15	675	15.61	62

Contact factory for alternate selections if required.

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301 @ free air.
 Brake horsepower does not include drive losses.
 Values are installation Type A, free inlet fan sone levels.
 Performance shown is for types and units without inlet or outlet ducts.



Standard 793

Inline Tubeaxial Index

MODEL TDB

110



MODEL TDD

137



MODEL DA

144





MODEL TDB

TUBEAXIAL INLINE BELT DRIVEN DUCT FAN



MODEL FEATURES

- Rated up to 75,490 CFM in static pressure applications up to 1-1/2" w.g.
- 12 sizes ranging from 12 to 60" propeller diameters
- Motor and drives are located outside of the airstream
- Belt drives permit easy performance adjustments when needed
- Continuously welded and epoxy painted steel housing
- AMCA Air & Sound Certified
- cULus Listed

MODEL OVERVIEW

S&P's tubeaxial line offers the widest range of sizes, horsepower and performance in the industry. Models TDB are high capacity belt drive tubeaxial fans rated from 900 to 75,490 CFM, with static pressure capability up to 1-1/2". They are used to exhaust air from or supply air to such typical commercial and industrial applications as general building ventilation, enclosed garages, paint spray booths, heat and smoke ventilation systems and other applications where air is moved through a duct system against moderate static pressure.

Belt drive Models TDB are especially suited to handle fumes, vapors, steam, dust, smoke and contaminated or heated air to 200° F. They are available in larger, higher capacity sizes and offer ease in adjustment of fan performance by reducing the fan RPM with adjustable motor sheaves. (Optional on 7-1/2HP and larger).

Total access to the bearings and shaft is possible with the TDB's unique removable cover.

STANDARD CONSTRUCTION FEATURES

Drives
Sized for a minimum 150% of motor horsepower. Drives are variable pitch as standard through 5HP.

Mounting Supports
Eight (8) mounting supports are welded to each fan to allow for universal mounting.

Housing
Heavy-gauge rolled steel with continuous welded seam and epoxy coating for maximum strength.

Factory Run & Tested
For quality assurance and dependable operation.

AMCA Seal
Assures certified rating of air and sound performance.

cULus 705 Listed
For electrical reliability.

Motor
National brands with local service. Standard motors are heavy-duty open drip-proof. Other options available.

Motor Base
Adjustable steel motor base is designed for strength and ease of belt tensioning.

Integral Inlet and Outlet Flanges
With mounting holes.

Extended Lubrication Lines
Extend from bearings to the outside of the unit.

Bearings
Heavy-duty, ball bearing cast pillow blocks are designed for minimum 200,000 hours of operation, L50.

Propeller
Aluminum propellers are selected for maximum airflow and low sound.

2 year fan housing warranty, 1 year motor warranty

All specifications are subject to change without notice unless approved in submittal by Soler & Palau.



CONSTRUCTION/SPECIFICATION CHECKLIST

Fan Housing

- Heavy-gauge rolled steel construction.
- Integral inlet and outlet flanges with mounting holes.
- Continuous welded and epoxy coated.
- Belt and bearing tube.
- Removable bearing cover for ease of maintenance.
- Eight mounting supports welded to each fan.
- Adjustable motor base for belt tensioning.
- Extended lube lines.

Propeller

- Aluminum airfoil propeller.
- Blades are pitched for optimum efficiency.
- Statically balanced

Drives

- Sized for minimum 150% of drive horsepower.
- Single belt adjustable pitch sheaves through 5HP.
- Multiple belt fixed pitch sheaves 7-1/2HP and above.
- Adjustable tension rods for belt adjustment.
- Nonstatic oil resistant v-belts.
- Keyed, turned, ground and polished shafts.

Bearings

- Bearings are designed for minimum 200,000 hour life, L50.
- Cast iron self-aligning pillow block ball bearings.
- Bearings are sealed and prelubricated.

Motors

- One year motor warranty.
- Brands are nationally recognized and locally serviced.
- NEMA base-mounted motors are standard.
- Open drip-proof construction is standard.
- Premium-efficiency, explosion proof, totally enclosed fan cooled (TEFC) and corrosion duty motors can be specified.

Certifications

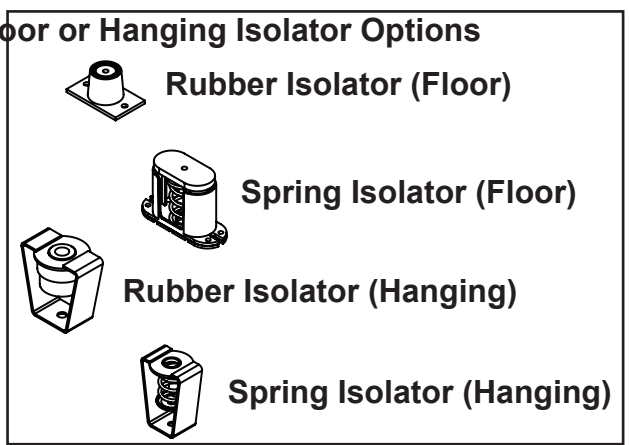
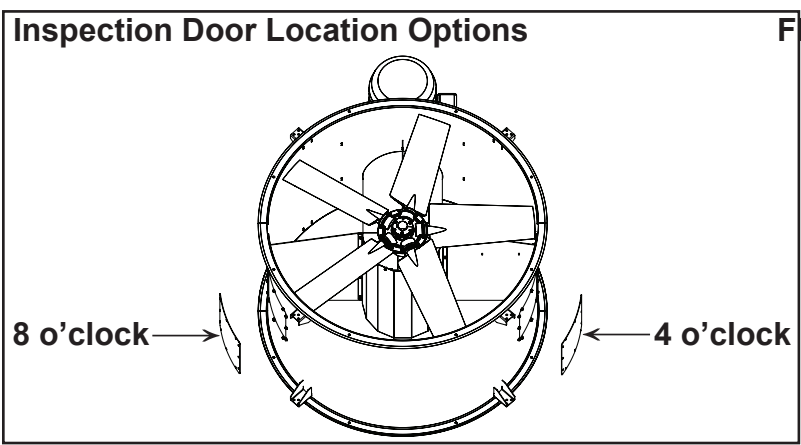
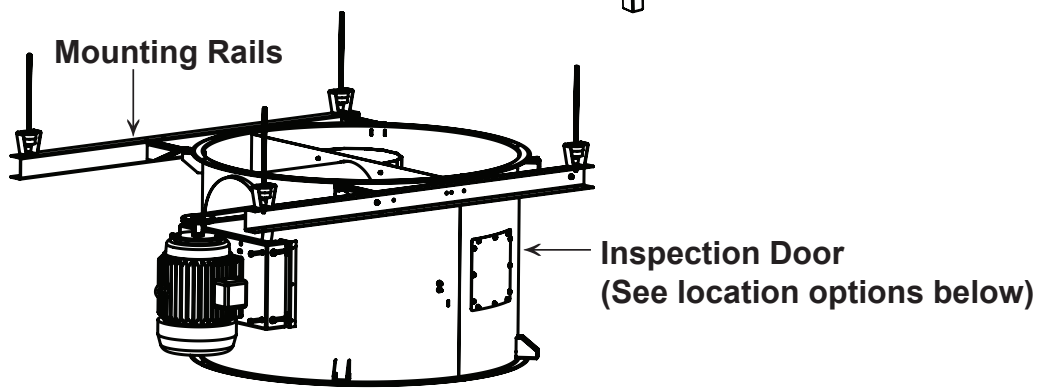
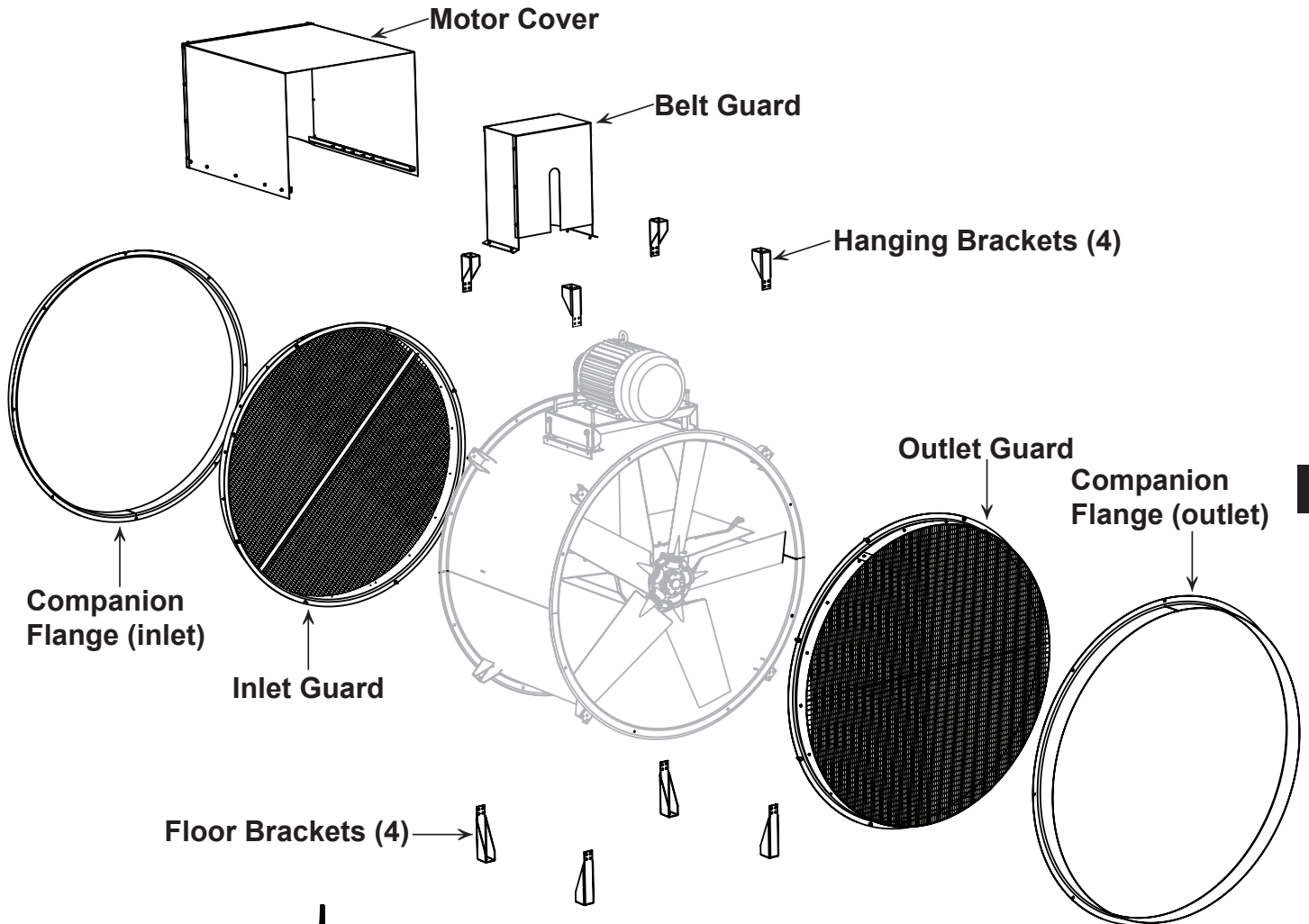
- AMCA Air and Sound Certified
- cULus 705 Listed

Entire Fan Unit

- Factory assembled and tested prior to shipment for quality assurance.



OPTIONS/ACCESSORIES





OPTIONS/ACCESSORIES

Hanging & Floor Brackets: For base or ceiling mounting. Neoprene and spring isolators are available.

Mounting Rails: Designed for vertical and horizontal mounting. Rail kits include mounting brackets.

Inlet/Outlet Guard: Prevents objects from entering the fan inlet or outlet. Includes companion flange.

Inspection Door: For inspection and blade service/cleaning. Bolted. Not available on sizes 12 and 16.

Companion Flanges: Inlet and/or outlet flanges are available for duct connection.

Belt Guard: Encloses belt and motor sheave on exterior of fan.

Motor Cover: Three sided guard that covers motor, sheave and belt. Motor may extend past cover on sizes 12, 16, and 18.

Adjustable Sheave: Can be specified for 7-1/2HP and larger units (standard through 5HP).

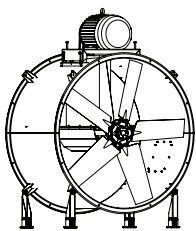
Shaft Seal: Protects bearings and belts when fan is handling dirty or contaminated air.

Disconnect Switch: Nonfused safety disconnect available for all motor sizes and enclosures. Specify prewired if desired. (Wiring not available on explosion proof and two speed motors).

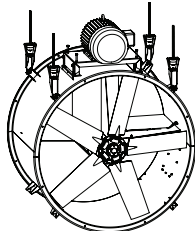
Special Coatings (*Epoxy Coating is Standard*): For protective and decorative purposes. Available coatings include: Synthetic Resin and Heresite (air-dried phenolic). Contact your representative or the factory for more information on available coatings and colors.

MOUNTING CONFIGURATIONS

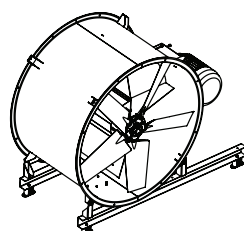
Floor Mount



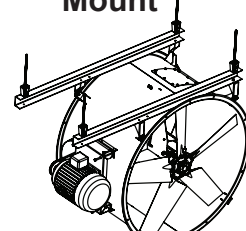
Hanging Mount



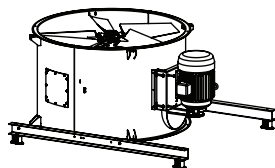
Rail Floor Mount



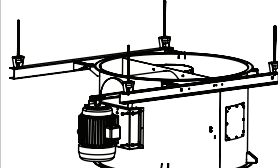
Rail Hanging Mount



Vertical Rail Floor Mount



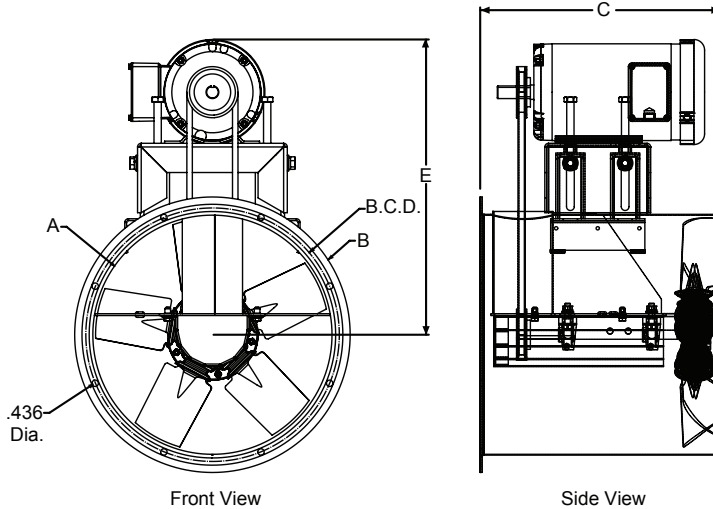
Vertical Rail Hanging Mount





PERFORMANCE/DIMENSIONS

Size 12



Max. Motor Frame: 145T
Shaft Size: 5/8"
Housing Gauge: 16
Approximate Weight: 90 lbs.
Flange Holes: 6
Diameter Flange Holes: 7/16"
Finish: Epoxy Coated Galvanized

	A	B	C	E	B.C.D.
	12-3/8	14-1/2	12*	21	13-1/2
A: ID B: OD C: Length E: Max. Height *Motor may extend past unit					

HP	RPM	Static Pressure (Inches W.G.)									
		0		0.125		0.25		0.375		0.5	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1/4	1550	1358	0.20	1189	0.20	-	-	-	-	-	-
	1600	1402	0.21	1240	0.23	914	0.22	-	-	-	-
	1650	1445	0.24	1291	0.25	1021	0.24	-	-	-	-
	1700	1489	0.26	1341	0.27	1104	0.27	-	-	-	-
1/3	1725	1511	0.27	1365	0.28	1141	0.28	-	-	-	-
	1775	1555	0.29	1414	0.31	1210	0.31	-	-	-	-
	1825	1599	0.32	1463	0.33	1274	0.34	-	-	-	-
	1875	1642	0.35	1511	0.36	1335	0.36	-	-	-	-
1/2	1925	1686	0.37	1559	0.39	1393	0.39	1001	0.38	-	-
	2000	1752	0.42	1630	0.43	1478	0.44	1211	0.43	-	-
	2075	1818	0.47	1700	0.48	1559	0.49	1341	0.49	-	-
	2150	1883	0.52	1771	0.54	1638	0.55	1450	0.55	-	-
3/4	2200	1927	0.56	1817	0.58	1690	0.59	1516	0.59	-	-
	2275	1993	0.62	1887	0.64	1767	0.65	1609	0.65	1324	0.63
	2350	2059	0.68	1956	0.70	1842	0.71	1698	0.72	1474	0.71
	2425	2124	0.75	2025	0.77	1916	0.78	1783	0.79	1593	0.78

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



S&P, Div. of Soler & Palau Ventilation Group certifies that the Models TDB shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

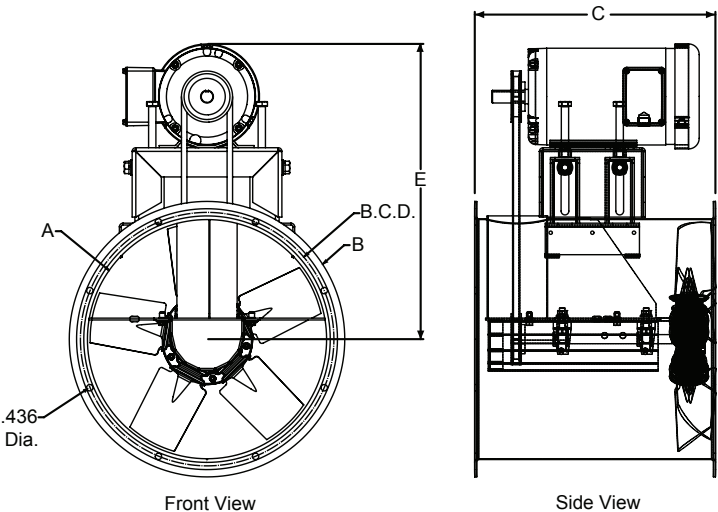




MODEL TDB
BELT DRIVE TUBEAXIAL DUCT FAN



Size 16



Max. Motor Frame: 145T
Shaft Size: 5/8"
Housing Gauge: 16
Approximate Weight: 110 lbs.
Flange Holes: 8
Diameter Flange Holes: 7/16"
Finish: Epoxy Coated Galvanized

A	B	C	E	B.C.D.
16-3/8	18-1/2	17*	23	17-3/8

A: ID B: OD C: Length E: Max. Height
 *Motor may extend past unit

HP	RPM	Static Pressure (Inches W.G.)																			
		0		0.125		0.25		0.375		0.5		0.625		0.75		0.875		1		1.25	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1/4	1100	1888	0.13	1621	0.15	1270	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1175	2017	0.16	1771	0.18	1461	0.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1225	2103	0.18	1869	0.20	1581	0.22	1205	0.23	-	-	-	-	-	-	-	-	-	-	-	-
	1275	2189	0.21	1965	0.22	1696	0.24	1355	0.25	-	-	-	-	-	-	-	-	-	-	-	-
1/3	1300	2232	0.22	2013	0.24	1753	0.25	1427	0.27	-	-	-	-	-	-	-	-	-	-	-	-
	1350	2318	0.25	2109	0.26	1863	0.28	1563	0.30	1182	0.30	-	-	-	-	-	-	-	-	-	-
	1375	2360	0.26	2156	0.28	1917	0.30	1628	0.31	1265	0.32	-	-	-	-	-	-	-	-	-	-
	1425	2446	0.29	2250	0.31	2023	0.33	1755	0.34	1424	0.36	-	-	-	-	-	-	-	-	-	-
1/2	1475	2532	0.32	2343	0.34	2128	0.36	1876	0.38	1573	0.39	1202	0.40	-	-	-	-	-	-	-	-
	1525	2618	0.35	2436	0.37	2230	0.39	1994	0.41	1713	0.43	1374	0.44	-	-	-	-	-	-	-	-
	1575	2704	0.39	2529	0.41	2332	0.43	2108	0.45	1847	0.47	1535	0.48	1170	0.48	-	-	-	-	-	-
	1625	2790	0.43	2621	0.45	2432	0.47	2219	0.49	1975	0.51	1688	0.53	1349	0.53	-	-	-	-	-	-
3/4	1675	2875	0.47	2712	0.49	2530	0.51	2328	0.53	2099	0.56	1832	0.57	1520	0.58	1168	0.58	-	-	-	-
	1750	3004	0.53	2849	0.56	2677	0.58	2488	0.60	2277	0.63	2037	0.65	1758	0.66	1439	0.66	-	-	-	-
	1825	3133	0.61	2985	0.63	2821	0.65	2644	0.68	2448	0.70	2229	0.72	1979	0.74	1693	0.75	1374	0.75	-	-
	1875	3219	0.66	3075	0.68	2917	0.70	2746	0.73	2560	0.76	2352	0.78	2118	0.80	1852	0.81	1553	0.82	-	-
1	1925	3305	0.71	3165	0.73	3012	0.76	2848	0.79	2669	0.81	2472	0.84	2252	0.86	2004	0.87	1724	0.88	-	-
	1975	3390	0.77	3255	0.79	3106	0.82	2948	0.85	2776	0.87	2589	0.90	2381	0.92	2149	0.94	1888	0.95	1296	0.96
	2025	3476	0.83	3344	0.85	3200	0.88	3047	0.91	2882	0.93	2703	0.96	2506	0.99	2288	1.01	2043	1.02	1480	1.03
	2075	3562	0.89	3433	0.92	3294	0.94	3145	0.97	2986	1.00	2815	1.03	2627	1.05	2421	1.08	2192	1.09	1661	1.11

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



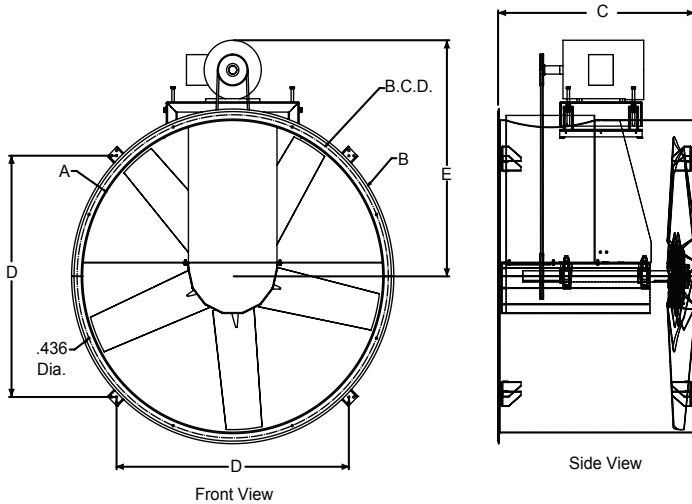
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MODEL TDB
BELT DRIVE TUBEAXIAL DUCT FAN

Size 18



Max. Motor Frame: 182T
Shaft Size: 1"
Housing Gauge: 14
Approximate Weight: 140 lbs.
Flange Holes: 8
Diameter Flange Holes: 7/16"
Finish: Epoxy Coated Galvanized

A	B	C	D	E	B.C.D.
---	---	---	---	---	--------

18-3/8 22-1/2 22* 17-15/16 25-1/2 19-3/4

A: ID B: OD C: Length E: Max. Height

*Motor may extend past unit

HP	RPM	Static Pressure (Inches W.G.)																	
		0		0.125		0.25		0.375		0.5		0.625		0.75		0.875		1	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1/4	1000	2509	0.15	2122	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1050	2635	0.17	2268	0.19	1809	0.21	-	-	-	-	-	-	-	-	-	-	-	-
	1100	2760	0.20	2412	0.22	1999	0.24	-	-	-	-	-	-	-	-	-	-	-	-
	1125	2823	0.21	2483	0.23	2089	0.25	-	-	-	-	-	-	-	-	-	-	-	-
1/3	1150	2886	0.23	2554	0.25	2175	0.27	-	-	-	-	-	-	-	-	-	-	-	-
	1200	3011	0.26	2694	0.28	2342	0.30	1827	0.32	-	-	-	-	-	-	-	-	-	-
	1225	3074	0.27	2763	0.30	2422	0.32	1952	0.34	-	-	-	-	-	-	-	-	-	-
1/2	1275	3199	0.31	2902	0.33	2580	0.36	2172	0.38	-	-	-	-	-	-	-	-	-	-
	1300	3262	0.33	2970	0.35	2658	0.38	2271	0.40	-	-	-	-	-	-	-	-	-	-
	1350	3387	0.37	3107	0.39	2810	0.42	2459	0.44	-	-	-	-	-	-	-	-	-	-
	1400	3513	0.41	3243	0.43	2959	0.46	2635	0.49	2184	0.50	-	-	-	-	-	-	-	-
3/4	1450	3638	0.45	3379	0.48	3106	0.51	2803	0.54	2414	0.56	-	-	-	-	-	-	-	-
	1500	3764	0.50	3513	0.53	3251	0.56	2966	0.59	2618	0.61	2059	0.62	-	-	-	-	-	-
	1550	3889	0.56	3647	0.58	3395	0.61	3124	0.64	2807	0.67	2363	0.68	-	-	-	-	-	-
	1600	4015	0.61	3781	0.64	3537	0.67	3279	0.70	2985	0.73	2606	0.75	-	-	-	-	-	-
1	1650	4140	0.67	3914	0.70	3678	0.73	3431	0.76	3156	0.79	2820	0.82	2303	0.82	-	-	-	-
	1675	4203	0.70	3980	0.73	3748	0.76	3506	0.79	3239	0.82	2919	0.85	2461	0.86	-	-	-	-
	1725	4328	0.77	4113	0.79	3887	0.82	3655	0.86	3402	0.89	3109	0.92	2726	0.94	-	-	-	-
	1775	4454	0.83	4245	0.86	4026	0.89	3801	0.93	3561	0.97	3289	1.00	2953	1.02	2437	1.02	-	-
1 1/2	1825	4579	0.91	4377	0.93	4164	0.97	3947	1.00	3717	1.04	3462	1.08	3159	1.10	2748	1.12	-	-
	1850	4642	0.94	4442	0.97	4233	1.01	4019	1.04	3794	1.08	3546	1.12	3257	1.15	2879	1.16	-	-
	1925	4830	1.06	4639	1.09	4438	1.13	4234	1.17	4021	1.20	3792	1.24	3534	1.28	3223	1.30	2787	1.31
	2000	5018	1.19	4835	1.22	4641	1.26	4446	1.30	4244	1.34	4030	1.38	3795	1.41	3525	1.45	3186	1.47
	2075	5207	1.33	5031	1.36	4844	1.40	4656	1.44	4464	1.48	4262	1.52	4044	1.56	3802	1.60	3517	1.63

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



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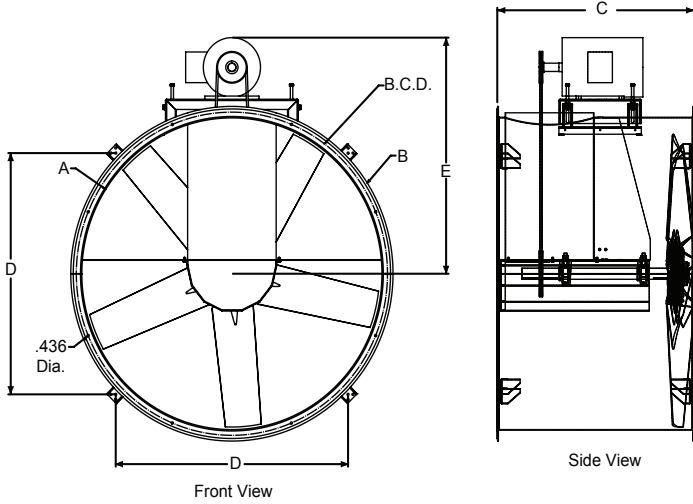




MODEL TDB
BELT DRIVE TUBEAXIAL DUCT FAN



Size 20



Max. Motor Frame: 184T
Shaft Size: 1"
Housing Gauge: 14
Approximate Weight: 150 lbs.
Flange Holes: 8
Diameter Flange Holes: 7/16"
Finish: Epoxy Coated
 Galvanized

A	B	C	D	E	B.C.D.
20-3/8	24-1/2	22	18-3/8	26-1/2	21-3/4

A: ID B: OD C: Length E: Max. Height

HP	RPM	Static Pressure (Inches W.G.)																			
		0		0.125		0.25		0.375		0.5		0.625		0.75		0.875		1		1.125	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1/3	1050	3404	0.23	2933	0.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1100	3566	0.26	3119	0.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1125	3647	0.28	3211	0.31	2701	0.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1150	3728	0.30	3302	0.33	2812	0.35	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1/2	1175	3809	0.32	3393	0.35	2921	0.37	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1225	3971	0.36	3573	0.39	3132	0.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	1275	4133	0.40	3751	0.44	3336	0.47	2813	0.49	-	-	-	-	-	-	-	-	-	-	-	-
	1300	4214	0.43	3840	0.46	3436	0.49	2940	0.52	-	-	-	-	-	-	-	-	-	-	-	-
3/4	1325	4295	0.45	3929	0.49	3535	0.52	3062	0.55	-	-	-	-	-	-	-	-	-	-	-	-
	1375	4457	0.51	4104	0.54	3730	0.58	3295	0.61	2692	0.62	-	-	-	-	-	-	-	-	-	-
	1400	4539	0.53	4192	0.57	3826	0.61	3407	0.64	2848	0.66	-	-	-	-	-	-	-	-	-	-
	1450	4701	0.59	4366	0.63	4017	0.67	3624	0.70	3131	0.73	-	-	-	-	-	-	-	-	-	-
1	1525	4944	0.69	4626	0.73	4297	0.77	3938	0.81	3512	0.84	-	-	-	-	-	-	-	-	-	-
	1575	5106	0.76	4799	0.80	4482	0.84	4140	0.88	3747	0.91	3242	0.93	-	-	-	-	-	-	-	-
	1625	5268	0.84	4971	0.88	4665	0.92	4339	0.96	3971	1.00	3522	1.02	-	-	-	-	-	-	-	-
	1675	5430	0.92	5142	0.96	4846	1.00	4534	1.04	4188	1.08	3779	1.11	3238	1.13	-	-	-	-	-	-
1 1/2	1700	5511	0.96	5227	1.00	4936	1.05	4630	1.09	4294	1.13	3902	1.16	3398	1.18	-	-	-	-	-	-
	1775	5754	1.09	5483	1.13	5205	1.18	4916	1.23	4604	1.27	4253	1.31	3830	1.33	3259	1.34	-	-	-	-
	1850	5997	1.23	5737	1.28	5472	1.33	5197	1.38	4906	1.42	4585	1.46	4215	1.50	3755	1.51	-	-	-	-
	1925	6240	1.39	5990	1.44	5736	1.49	5475	1.54	5200	1.59	4903	1.63	4570	1.67	4179	1.70	3678	1.71	-	-
2	1950	6322	1.44	6075	1.49	5824	1.55	5566	1.60	5296	1.64	5006	1.69	4684	1.73	4310	1.76	3842	1.78	-	-
	2000	6484	1.56	6243	1.61	5999	1.66	5749	1.71	5488	1.76	5211	1.81	4907	1.85	4561	1.89	4146	1.91	-	-
	2050	6646	1.68	6411	1.73	6173	1.78	5930	1.84	5678	1.89	5412	1.94	5123	1.98	4801	2.02	4425	2.05	3956	2.06
	2075	6727	1.74	6495	1.79	6260	1.85	6020	1.90	5772	1.95	5511	2.00	5229	2.05	4917	2.09	4558	2.12	4118	2.14

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



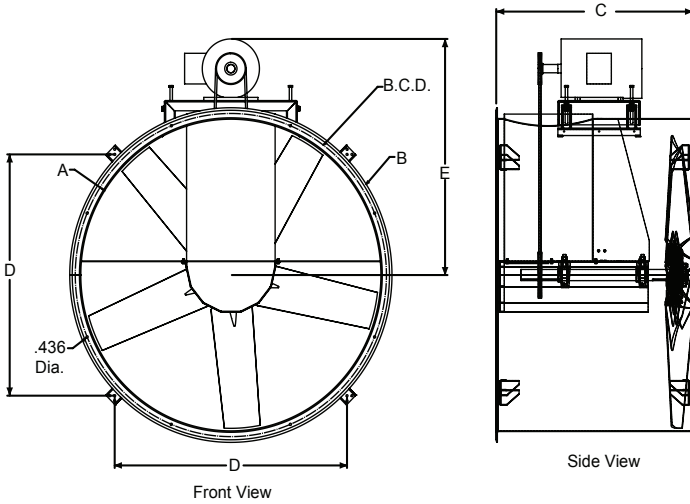
S&P, Div. of Soler & Palau Ventilation Group certifies that the Models TDB shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.





MODEL TDB
BELT DRIVE TUBEAXIAL DUCT FAN

Size 24



Max. Motor Frame: 184T
Shaft Size: 1"
Housing Gauge: 12
Approximate Weight: 220 lbs.
Flange Holes: 8
Diameter Flange Holes: 7/16"
Finish: Epoxy Coated Galvanized



A	B	C	D	E	B.C.D.
24-3/8	28-9/16	23	21-1/4	28-1/2	25-3/4

A: ID B: OD C: Length E: Max. Height

HP	RPM	Static Pressure (Inches W.G.)																	
		0		0.125		0.25		0.375		0.5		0.625		0.75		0.875		1	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1/2	800	4768	0.25	4031	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	850	5066	0.30	4379	0.33	3485	0.35	-	-	-	-	-	-	-	-	-	-	-	-
	900	5364	0.35	4721	0.38	3937	0.41	-	-	-	-	-	-	-	-	-	-	-	-
	950	5662	0.41	5056	0.45	4351	0.48	-	-	-	-	-	-	-	-	-	-	-	-
3/4	975	5811	0.45	5223	0.48	4548	0.51	3555	0.53	-	-	-	-	-	-	-	-	-	-
	1025	6109	0.52	5552	0.56	4929	0.59	4110	0.62	-	-	-	-	-	-	-	-	-	-
	1075	6407	0.60	5878	0.64	5297	0.68	4583	0.70	-	-	-	-	-	-	-	-	-	-
	1125	6705	0.69	6201	0.73	5655	0.77	5014	0.80	4095	0.82	-	-	-	-	-	-	-	-
1	1150	6854	0.73	6362	0.77	5831	0.82	5220	0.85	4390	0.87	-	-	-	-	-	-	-	-
	1200	7152	0.83	6682	0.88	6179	0.92	5615	0.96	4908	0.99	-	-	-	-	-	-	-	-
	1225	7301	0.89	6842	0.93	6351	0.97	5807	1.01	5144	1.05	-	-	-	-	-	-	-	-
	1250	7450	0.94	7001	0.99	6521	1.03	5996	1.07	5370	1.11	4479	1.12	-	-	-	-	-	-
1 1/2	1275	7599	1.00	7159	1.04	6691	1.09	6182	1.13	5587	1.17	4786	1.19	-	-	-	-	-	-
	1325	7897	1.12	7475	1.17	7027	1.22	6548	1.26	6004	1.30	5323	1.33	-	-	-	-	-	-
	1375	8195	1.25	7790	1.30	7360	1.35	6906	1.40	6401	1.44	5801	1.48	-	-	-	-	-	-
	1425	8493	1.39	8103	1.44	7690	1.50	7258	1.55	6785	1.59	6243	1.63	5558	1.66	-	-	-	-
2	1450	8642	1.47	8259	1.52	7854	1.57	7431	1.63	6974	1.67	6454	1.72	5817	1.74	-	-	-	-
	1500	8940	1.63	8571	1.68	8181	1.73	7776	1.79	7343	1.84	6862	1.88	6297	1.92	5561	1.93	-	-
	1525	9089	1.71	8727	1.76	8344	1.82	7947	1.87	7525	1.93	7061	1.97	6524	2.01	5849	2.03	-	-
	1550	9238	1.79	8882	1.85	8506	1.91	8117	1.96	7705	2.02	7256	2.06	6744	2.11	6117	2.13	-	-
3	1625	9685	2.07	9348	2.12	8989	2.18	8622	2.24	8237	2.30	7825	2.35	7371	2.40	6846	2.44	6194	2.46
	1675	9983	2.26	9657	2.32	9309	2.38	8955	2.45	8586	2.51	8195	2.56	7769	2.61	7291	2.66	6723	2.69
	1725	10281	2.47	9965	2.53	9628	2.60	9285	2.66	8931	2.72	8557	2.78	8156	2.84	7714	2.88	7206	2.92
	1775	10579	2.69	10274	2.75	9946	2.82	9614	2.89	9272	2.95	8914	3.01	8534	3.07	8121	3.12	7658	3.17

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



S&P, Div. of Soler & Palau Ventilation Group certifies that the Models TDB shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.

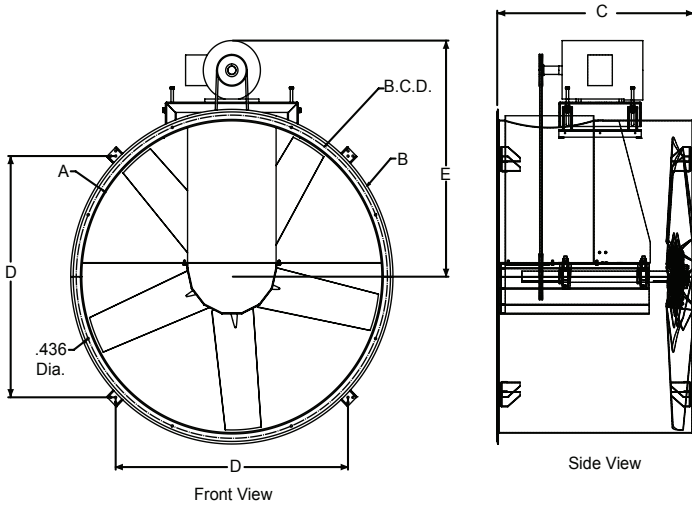




MODEL TDB
BELT DRIVE TUBEAXIAL DUCT FAN



Size 30



Max. Motor Frame: 254T
Shaft Size: 1-3/16"
Housing Gauge: 12
Approximate Weight: 260 lbs.
Flange Holes: 8
Diameter Flange Holes: 7/16"
Finish: Epoxy Coated Galvanized

A	B	C	D	E	B.C.D.
30-3/8	34-9/16	24	25-1/2	35	32

A: ID B: OD C: Length E: Max. Height

HP	RPM	Static Pressure (Inches W.G.)																			
		0		0.125		0.25		0.375		0.5		0.625		0.75		0.875		1		1.125	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
1/2	600	6561	0.24	4936	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	650	7108	0.31	5666	0.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	700	7655	0.38	6351	0.42	4239	0.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	750	8202	0.47	7008	0.51	5319	0.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3/4	775	8475	0.52	7328	0.57	5780	0.58	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	800	8748	0.57	7644	0.62	6209	0.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	825	9022	0.62	7957	0.68	6614	0.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	850	9295	0.68	8267	0.74	7002	0.77	5007	0.76	-	-	-	-	-	-	-	-	-	-	-	-
1	875	9568	0.74	8574	0.80	7377	0.83	5610	0.83	-	-	-	-	-	-	-	-	-	-	-	-
	900	9842	0.81	8879	0.87	7740	0.90	6147	0.91	-	-	-	-	-	-	-	-	-	-	-	-
	925	10115	0.88	9181	0.94	8094	0.98	6637	0.99	-	-	-	-	-	-	-	-	-	-	-	-
	950	10389	0.95	9482	1.02	8441	1.06	7094	1.07	4911	1.05	-	-	-	-	-	-	-	-	-	-
1 1/2	975	10662	1.03	9781	1.10	8781	1.14	7524	1.16	5612	1.14	-	-	-	-	-	-	-	-	-	-
	1025	11209	1.20	10375	1.27	9446	1.32	8330	1.34	6800	1.34	-	-	-	-	-	-	-	-	-	-
	1075	11755	1.38	10963	1.46	10095	1.51	9084	1.54	7793	1.55	-	-	-	-	-	-	-	-	-	-
	1100	12029	1.48	11256	1.56	10414	1.62	9447	1.65	8244	1.66	6532	1.64	-	-	-	-	-	-	-	-
2	1125	12302	1.58	11548	1.66	10731	1.72	9802	1.76	8674	1.78	7136	1.76	-	-	-	-	-	-	-	-
	1150	12576	1.69	11838	1.77	11045	1.84	10151	1.88	9086	1.90	7688	1.89	-	-	-	-	-	-	-	-
	1175	12849	1.80	12128	1.89	11356	1.95	10495	2.00	9484	2.02	8199	2.02	-	-	-	-	-	-	-	-
	1200	13122	1.92	12417	2.01	11666	2.08	10834	2.13	9871	2.15	8678	2.16	7027	2.13	-	-	-	-	-	-
3	1225	13396	2.04	12706	2.13	11973	2.20	11168	2.26	10248	2.29	9132	2.30	7645	2.28	-	-	-	-	-	-
	1275	13943	2.30	13281	2.40	12583	2.47	11826	2.53	10977	2.57	9984	2.59	8738	2.58	-	-	-	-	-	-
	1325	14489	2.58	13853	2.68	13188	2.76	12471	2.83	11681	2.88	10780	2.90	9699	2.90	8302	2.88	-	-	-	-
	1375	15036	2.89	14424	2.99	13787	3.08	13107	3.15	12366	3.20	11538	3.23	10576	3.25	9394	3.23	-	-	-	-
5	1400	15309	3.05	14709	3.15	14085	3.24	13421	3.32	12702	3.37	11905	3.41	10991	3.43	9891	3.42	-	-	-	-
	1475	16130	3.56	15560	3.68	14972	3.77	14353	3.85	13691	3.92	12971	3.97	12170	4.00	11250	4.01	10146	3.99	-	-
	1550	16950	4.14	16408	4.26	15852	4.36	15271	4.45	14656	4.52	13997	4.58	13278	4.62	12478	4.65	11560	4.65	-	-
	1600	17497	4.55	16972	4.67	16436	4.78	15877	4.87	15289	4.96	14664	5.02	13989	5.07	13249	5.10	12418	5.12	10298	5.08

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

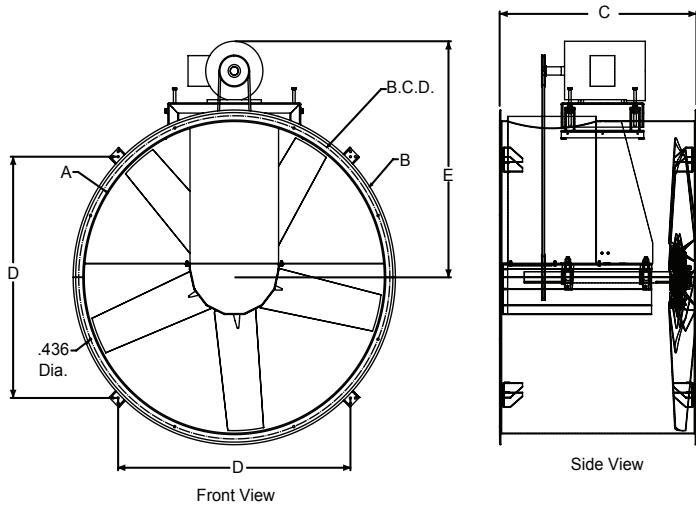


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Size 34



Max. Motor Frame: 254T
Shaft Size: 1-7/16"
Housing Gauge: 12
Approximate Weight: 310 lbs.
Flange Holes: 8
Diameter Flange Holes: 7/16"
Finish: Epoxy Coated
 Galvanized

A	B	C	D	E	B.C.D.
34-3/8	38-9/16	27	28-5/8	37	36-3/8

A: ID B: OD C: Length E: Max. Height

HP	RPM	Static Pressure (Inches W.G.)																						
		0		0.125		0.25		0.375		0.5		0.625		0.75		0.875		1		1.125		1.5		
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
3/4	600	9375	0.43	7491	0.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	625	9765	0.49	7994	0.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	650	10156	0.55	8483	0.60	5890	0.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	675	10547	0.61	8960	0.67	6580	0.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	700	10937	0.69	9428	0.75	7235	0.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	725	11328	0.76	9887	0.83	7858	0.84	5118	0.84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	750	11718	0.84	10339	0.91	8453	0.93	5870	0.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	775	12109	0.93	10786	1.01	9024	1.03	6609	1.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	800	12500	1.02	11228	1.10	9573	1.13	7324	1.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	825	12890	1.12	11665	1.21	10106	1.24	8013	1.23	5542	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-
	850	13281	1.23	12098	1.32	10624	1.35	8673	1.35	6297	1.35	-	-	-	-	-	-	-	-	-	-	-	-	-
	875	13672	1.34	12528	1.43	11129	1.47	9306	1.47	7046	1.47	-	-	-	-	-	-	-	-	-	-	-	-	-
2	900	14062	1.46	12956	1.55	11623	1.60	9915	1.61	7779	1.59	5523	1.64	-	-	-	-	-	-	-	-	-	-	-
	925	14453	1.58	13380	1.68	12108	1.74	10502	1.75	8492	1.73	6276	1.76	-	-	-	-	-	-	-	-	-	-	-
	950	14843	1.71	13802	1.82	12585	1.88	11070	1.89	9181	1.88	7031	1.89	4989	1.99	-	-	-	-	-	-	-	-	-
	975	15234	1.85	14223	1.96	13055	2.02	11621	2.05	9846	2.03	7780	2.03	5725	2.11	-	-	-	-	-	-	-	-	-
3	1025	16015	2.15	15057	2.27	13977	2.34	12681	2.38	11106	2.37	9235	2.35	7229	2.38	5357	2.50	-	-	-	-	-	-	-
	1050	16406	2.31	15472	2.43	14430	2.51	13194	2.55	11705	2.55	9934	2.53	7982	2.54	6091	2.64	-	-	-	-	-	-	-
	1100	17187	2.66	16298	2.79	15324	2.88	14191	2.93	12850	2.94	11265	2.92	9462	2.91	7593	2.95	-	-	-	-	-	-	-
	1125	17578	2.85	16709	2.98	15766	3.07	14677	3.13	13401	3.14	11899	3.13	10178	3.11	8347	3.13	6586	3.24	-	-	-	-	-
5	1175	18359	3.24	17528	3.38	16641	3.48	15630	3.55	14465	3.58	13111	3.58	11554	3.55	9837	3.55	8088	3.60	-	-	-	-	-
	1225	19140	3.67	18343	3.82	17504	3.93	16561	4.01	15489	4.05	14259	4.06	12850	4.04	11271	4.02	9594	4.03	-	-	-	-	-
	1275	19921	4.14	19155	4.30	18360	4.42	17475	4.50	16480	4.55	15354	4.57	14075	4.57	12635	4.54	11065	4.53	-	-	-	-	-
	1325	20703	4.65	19964	4.81	19208	4.94	18373	5.03	17446	5.10	16407	5.13	15238	5.13	13926	5.11	12478	5.09	9384	5.14	-	-	-
7 1/2	1375	21484	5.20	20771	5.37	20049	5.50	19260	5.61	18390	5.68	17426	5.72	16351	5.74	15151	5.73	13823	5.70	10888	5.70	-	-	-
	1425	22265	5.78	21576	5.96	20885	6.10	20136	6.22	19316	6.30	18416	6.36	17421	6.39	16319	6.38	15101	6.36	12357	6.32	-	-	-
	1475	23046	6.42	22378	6.60	21717	6.75	21003	6.87	20228	6.97	19383	7.04	18457	7.07	17438	7.08	16318	7.07	13774	7.02	10990	7.06	-
	1525	23827	7.09	23179	7.28	22544	7.44	21862	7.57	21127	7.68	20330	7.76	19464	7.81	18517	7.83	17482	7.82	15131	7.77	12484	7.76	-

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



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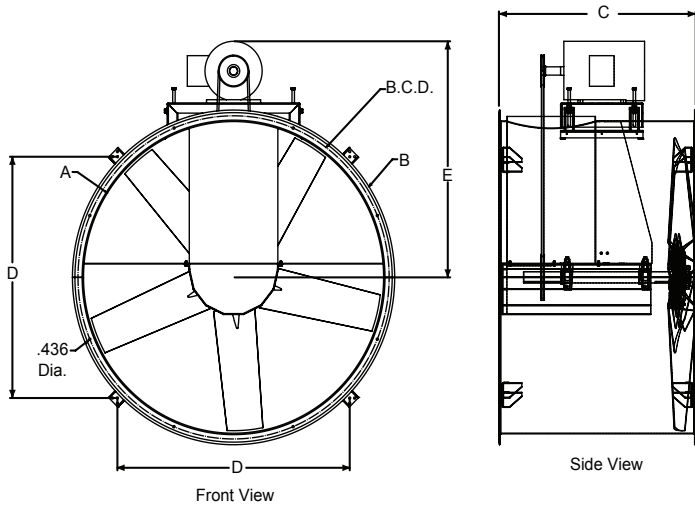




MODEL TDB
BELT DRIVE TUBEAXIAL DUCT FAN



Size 36



Max. Motor Frame: 254T
Shaft Size: 1-7/16"
Housing Gauge: 10
Approximate Weight: 410 lbs.
Flange Holes: 8
Diameter Flange Holes: 7/16"
Finish: Epoxy Coated Galvanized



A	B	C	D	E	B.C.D.
36-3/8	40-5/8	29	29-13/16	38	38

A: ID B: OD C: Length E: Max. Height

HP	RPM	Static Pressure (Inches W.G.)																					
		0		0.125		0.25		0.375		0.5		0.625		0.75		0.875		1		1.125		1.5	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
3/4	650	10196	0.41	8534	0.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	675	10588	0.46	8997	0.54	6993	0.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	700	10980	0.52	9454	0.60	7598	0.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	725	11372	0.57	9905	0.66	8170	0.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	750	11764	0.63	10352	0.73	8717	0.79	6390	0.81	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	775	12156	0.70	10794	0.80	9245	0.87	7169	0.90	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	800	12549	0.77	11233	0.87	9758	0.95	7872	0.99	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	825	12941	0.84	11668	0.95	10259	1.03	8521	1.08	5878	1.08	-	-	-	-	-	-	-	-	-	-	-	-
1 1/2	875	13725	1.01	12531	1.12	11232	1.21	9714	1.27	7669	1.29	-	-	-	-	-	-	-	-	-	-	-	-
	900	14117	1.10	12958	1.21	11707	1.31	10273	1.38	8427	1.41	-	-	-	-	-	-	-	-	-	-	-	-
	925	14509	1.19	13384	1.31	12176	1.41	10814	1.49	9123	1.53	-	-	-	-	-	-	-	-	-	-	-	-
	950	14901	1.29	13808	1.41	12639	1.52	11340	1.60	9773	1.65	7623	1.65	-	-	-	-	-	-	-	-	-	-
2	975	15294	1.39	14230	1.52	13098	1.63	11854	1.72	10390	1.78	8470	1.79	-	-	-	-	-	-	-	-	-	-
	1000	15686	1.50	14650	1.64	13552	1.75	12358	1.84	10979	1.91	9239	1.93	-	-	-	-	-	-	-	-	-	-
	1025	16078	1.62	15070	1.76	14003	1.88	12852	1.97	11547	2.04	9950	2.08	7772	2.07	-	-	-	-	-	-	-	-
	1050	16470	1.74	15487	1.88	14450	2.00	13340	2.11	12097	2.18	10617	2.23	8677	2.23	6015	2.21	-	-	-	-	-	-
3	1100	17254	2.00	16319	2.15	15335	2.28	14295	2.39	13157	2.48	11853	2.55	10255	2.57	8119	2.55	-	-	-	-	-	-
	1125	17646	2.14	16734	2.29	15774	2.43	14765	2.55	13671	2.64	12435	2.71	10959	2.75	9053	2.74	-	-	-	-	-	-
	1150	18039	2.29	17147	2.44	16210	2.58	15230	2.70	14175	2.81	12999	2.88	11624	2.93	9904	2.94	-	-	-	-	-	-
	1175	18431	2.44	17560	2.60	16644	2.74	15691	2.87	14672	2.98	13548	3.06	12258	3.11	10687	3.13	8642	3.11	-	-	-	-
5	1225	19215	2.77	18382	2.93	17507	3.08	16602	3.22	15646	3.34	14610	3.43	13452	3.50	12104	3.54	10443	3.55	-	-	-	-
	1275	19999	3.12	19202	3.29	18364	3.45	17501	3.60	16598	3.72	15633	3.83	14577	3.92	13384	3.98	11981	4.00	8060	3.96	-	-
	1350	21176	3.70	20426	3.88	19637	4.06	18830	4.22	17994	4.36	17114	4.48	16172	4.59	15142	4.67	13985	4.73	11010	4.74	-	-
	1400	21960	4.13	21240	4.32	20480	4.50	19706	4.67	18908	4.82	18074	4.95	17191	5.07	16241	5.17	15196	5.24	12640	5.30	-	-
7 1/2	1450	22744	4.59	22051	4.78	21319	4.97	20574	5.15	19810	5.31	19017	5.45	18185	5.58	17298	5.69	16339	5.78	14084	5.88	-	-
	1500	23529	5.08	22861	5.28	22154	5.48	21437	5.66	20703	5.83	19946	5.99	19156	6.13	18323	6.25	17434	6.35	15400	6.49	12780	6.51
	1550	24313	5.60	23669	5.81	22985	6.02	22293	6.21	21588	6.39	20862	6.55	20110	6.70	19323	6.84	18490	6.95	16628	7.13	14337	7.19
	1600	25097	6.16	24476	6.38	23814	6.59	23145	6.79	22465	6.98	21768	7.15	21049	7.31	20301	7.46	19516	7.59	17792	7.79	15743	7.90

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

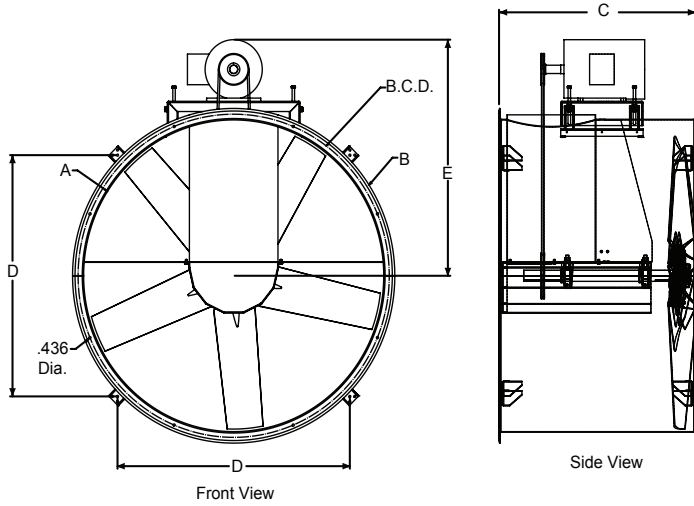


S&P, Div. of Soler & Palau Ventilation Group certifies that the Models TDB shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.





Size 42



Max. Motor Frame: 254T
Shaft Size: 1-7/16"
Housing Gauge: 10
Approximate Weight: 480 lbs.
Flange Holes: 8
Diameter Flange Holes: 7/16"
Finish: Epoxy Coated
 Galvanized

A	B	C	D	E	B.C.D.
42-1/2	47	30	34-1/8	42	44-1/4

A: ID B: OD C: Length E: Max. Height

HP	RPM	Static Pressure (Inches W.G.)																							
		0		0.125		0.25		0.375		0.5		0.625		0.75		0.875		1		1.25		1.5			
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP		
1	480	11943	0.45	9569	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	520	12939	0.57	10805	0.66	7231	0.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	560	13934	0.71	11987	0.81	9272	0.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	600	14929	0.88	13134	0.98	10859	1.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1 1/2	640	15924	1.06	14256	1.18	12264	1.25	9049	1.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	660	16422	1.17	14810	1.29	12926	1.36	10151	1.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	680	16920	1.28	15359	1.40	13569	1.49	11098	1.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	700	17417	1.39	15905	1.52	14198	1.61	11951	1.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	720	17915	1.51	16448	1.65	14813	1.75	12742	1.80	9165	1.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
	740	18412	1.64	16987	1.78	15419	1.89	13489	1.95	10509	1.96	-	-	-	-	-	-	-	-	-	-	-	-	-	
	760	18910	1.78	17525	1.93	16015	2.03	14202	2.10	11615	2.12	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	800	19905	2.08	18592	2.23	17186	2.35	15558	2.43	13456	2.48	-	-	-	-	-	-	-	-	-	-	-	-	-	
	820	20403	2.24	19123	2.40	17762	2.52	16209	2.61	14270	2.66	11293	2.66	-	-	-	-	-	-	-	-	-	-	-	
	840	20901	2.40	19652	2.57	18333	2.70	16846	2.80	15040	2.86	12473	2.86	-	-	-	-	-	-	-	-	-	-	-	
	860	21398	2.58	20179	2.75	18899	2.88	17472	2.99	15775	3.06	13498	3.08	-	-	-	-	-	-	-	-	-	-	-	
5	900	22394	2.96	21229	3.14	20019	3.28	18694	3.40	17171	3.48	15277	3.52	12482	3.51	-	-	-	-	-	-	-	-	-	-
	940	23389	3.37	22274	3.56	21126	3.71	19886	3.84	18495	3.94	16847	4.00	14685	4.02	11117	3.98	-	-	-	-	-	-	-	
	980	24384	3.82	23314	4.02	22222	4.18	21054	4.32	19768	4.43	18294	4.51	16489	4.55	13967	4.54	-	-	-	-	-	-	-	
	1020	25379	4.30	24351	4.51	23308	4.69	22203	4.84	21003	4.96	19661	5.06	18087	5.12	16088	5.14	-	-	-	-	-	-	-	
7 1/2	1060	26375	4.83	25384	5.05	24386	5.24	23336	5.40	22209	5.53	20970	5.64	19562	5.72	17872	5.76	15639	5.75	-	-	-	-	-	
	1100	27370	5.40	26415	5.63	25457	5.82	24456	5.99	23391	6.14	22237	6.26	20953	6.36	19471	6.42	17649	6.44	-	-	-	-	-	
	1140	28365	6.01	27442	6.25	26522	6.45	25564	6.63	24554	6.79	23470	6.93	22285	7.04	20953	7.12	19389	7.16	-	-	-	-	-	
10	1180	29360	6.66	28468	6.91	27582	7.13	26663	7.32	25700	7.49	24677	7.64	23573	7.76	22355	7.86	20969	7.92	-	-	-	-	-	
	1200	29858	7.01	28979	7.26	28110	7.48	27210	7.68	26268	7.85	25273	8.01	24203	8.14	23033	8.24	21718	8.32	18279	8.36	-	-	-	
	1240	30853	7.73	30002	8.00	29162	8.23	28297	8.43	27396	8.62	26449	8.78	25441	8.93	24353	9.05	23154	9.14	20195	9.23	-	-	-	
	1260	31351	8.11	30512	8.38	29687	8.61	28837	8.83	27955	9.02	27031	9.19	26051	9.34	24998	9.47	23848	9.57	21068	9.68	-	-	-	
	1300	32346	8.91	31532	9.19	30734	9.43	29915	9.66	29067	9.86	28183	10.04	27253	10.20	26263	10.34	25195	10.46	22700	10.61	19251	10.62	-	

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



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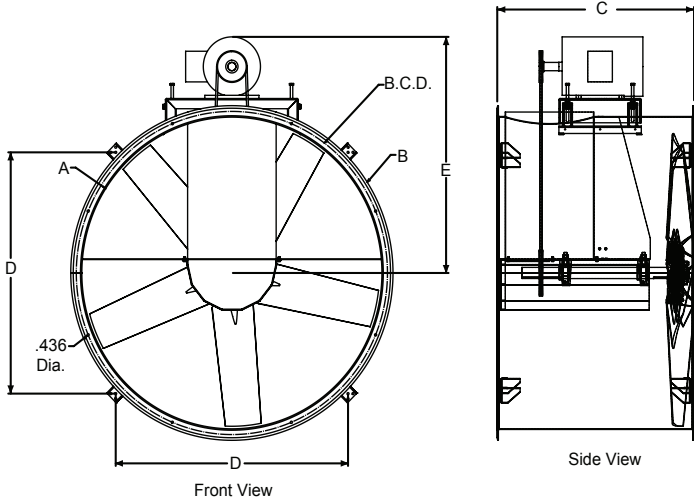




MODEL TDB
BELT DRIVE TUBEAXIAL DUCT FAN



Size 48



Max. Motor Frame: 284T
Shaft Size: 1-7/16"
Housing Gauge: 10
Approximate Weight: 600 lbs.
Flange Holes: 8
Diameter Flange Holes: 7/16"
Finish: Epoxy Coated Galvanized



A	B	C	D	E	B.C.D.
48-1/2	53	33	38-3/8	45	50-3/4

A: ID B: OD C: Length E: Max. Height

HP	RPM	Static Pressure (Inches W.G.)																							
		0		0.125		0.25		0.375		0.5		0.625		0.75		0.875		1		1.125		1.25			
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP		
1 1/2	460	17884	0.76	15363	0.93	11881	1.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	480	18662	0.87	16265	1.04	13143	1.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	500	19439	0.98	17153	1.17	14304	1.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	520	20217	1.10	18030	1.30	15397	1.44	11234	1.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2	540	20995	1.23	18898	1.44	16441	1.59	12890	1.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	560	21772	1.38	19758	1.59	17448	1.76	14324	1.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	580	22550	1.53	20610	1.75	18427	1.93	15616	2.05	10970	2.10	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	600	23327	1.69	21457	1.93	19384	2.11	16813	2.25	12932	2.32	-	-	-	-	-	-	-	-	-	-	-	-	-	
	620	24105	1.87	22299	2.11	20322	2.31	17943	2.46	14611	2.55	-	-	-	-	-	-	-	-	-	-	-	-	-	
	640	24882	2.05	23135	2.31	21245	2.51	19024	2.68	16085	2.79	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	660	25660	2.25	23968	2.51	22156	2.73	20066	2.91	17420	3.04	13439	3.09	-	-	-	-	-	-	-	-	-	-	-	
	680	26438	2.46	24797	2.73	23055	2.96	21078	3.15	18658	3.29	15263	3.37	10161	3.44	-	-	-	-	-	-	-	-	-	
	720	27993	2.92	26445	3.21	24826	3.46	23033	3.68	20944	3.85	18291	3.96	14426	4.02	-	-	-	-	-	-	-	-	-	
	760	29548	3.44	28083	3.75	26567	4.01	24920	4.25	23062	4.45	20845	4.60	17946	4.69	13734	4.74	-	-	-	-	-	-	-	-
	780	30325	3.72	28898	4.03	27429	4.31	25844	4.56	24078	4.77	22017	4.94	19430	5.05	15811	5.10	-	-	-	-	-	-	-	-
7 1/2	820	31881	4.32	30522	4.65	29137	4.95	27661	5.22	26049	5.45	24228	5.65	22069	5.80	19314	5.90	15488	5.94	11164	6.11	-	-	-	
	860	33436	4.98	32140	5.34	30828	5.65	29444	5.94	27954	6.20	26311	6.42	24436	6.60	22188	6.74	19294	6.82	15382	6.87	11358	7.08	-	
	880	34213	5.34	32946	5.70	31669	6.03	30325	6.32	28888	6.59	27318	6.83	25551	7.03	23482	7.18	20910	7.28	17486	7.33	13339	7.45	-	
	900	34991	5.71	33751	6.08	32506	6.42	31200	6.73	29812	7.00	28306	7.25	26633	7.47	24709	7.64	22388	7.76	19398	7.83	15502	7.89	-	
10	940	36546	6.51	35357	6.90	34171	7.25	32935	7.58	31632	7.88	30237	8.15	28716	8.39	27017	8.59	25055	8.76	22682	8.87	19643	8.93	-	
	960	37324	6.93	36159	7.33	34999	7.69	33795	8.03	32530	8.34	31183	8.62	29726	8.88	28116	9.10	26287	9.27	24127	9.41	21443	9.49	-	
	980	38101	7.37	36959	7.78	35826	8.15	34651	8.50	33421	8.82	32118	9.12	30718	9.38	29185	9.61	27468	9.81	25480	9.96	23078	10.07	-	
	1000	38879	7.83	37759	8.25	36650	8.63	35503	8.99	34307	9.32	33044	9.63	31695	9.90	30231	10.15	28608	10.36	26762	10.53	24583	10.66	-	

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



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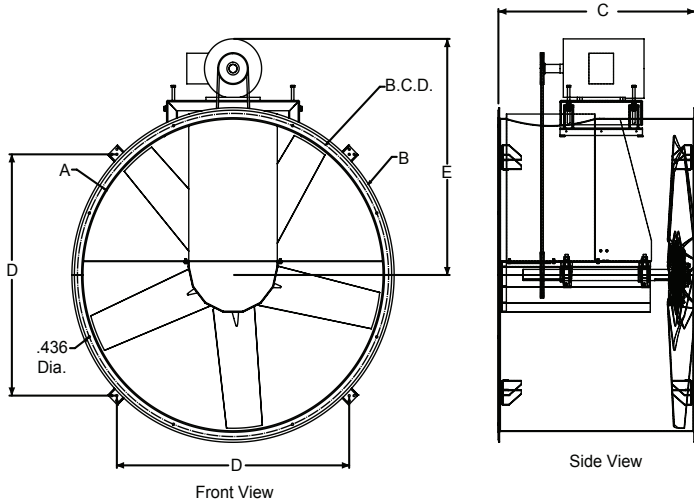




MODEL TDB
BELT DRIVE TUBEAXIAL DUCT FAN



Size 54



Max. Motor Frame: 284T
Shaft Size: 2-3/16"
Housing Gauge: 10
Approximate Weight: 730 lbs.
Flange Holes: 8
Diameter Flange Holes: 7/16"
Finish: Epoxy Coated Galvanized

A	B	C	D	E	B.C.D.
55	59-1/2	38	43	48	57-1/4

A: ID B: OD C: Length E: Max. Height

HP	RPM	Static Pressure (Inches W.G.)																						
		0		0.125		0.25		0.375		0.5		0.625		0.75		0.875		1		1.125		1.25		
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	
3	460	29774	1.94	26461	2.06	21377	2.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	480	31068	2.20	27937	2.33	23415	2.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	500	32363	2.49	29392	2.63	25300	2.64	18049	2.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	520	33657	2.80	30829	2.95	27081	2.98	20981	2.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	560	36246	3.50	33660	3.67	30429	3.73	25818	3.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	580	37541	3.89	35060	4.07	32028	4.14	27898	4.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	600	38835	4.30	36450	4.49	33592	4.58	29839	4.56	24166	4.44	-	-	-	-	-	-	-	-	-	-	-	-	-
	620	40130	4.75	37832	4.95	35126	5.05	31677	5.05	26754	4.94	-	-	-	-	-	-	-	-	-	-	-	-	-
7 1/2	660	42719	5.72	40577	5.94	38124	6.07	35139	6.10	31225	6.03	25491	5.90	-	-	-	-	-	-	-	-	-	-	-
	680	44013	6.26	41940	6.49	39596	6.63	36791	6.68	33228	6.62	28247	6.49	-	-	-	-	-	-	-	-	-	-	-
	700	45308	6.83	43299	7.07	41052	7.22	38405	7.28	35126	7.25	30732	7.12	-	-	-	-	-	-	-	-	-	-	-
	720	46602	7.43	44654	7.68	42495	7.84	39986	7.92	36943	7.91	33009	7.80	27485	7.66	-	-	-	-	-	-	-	-	-
10	740	47897	8.07	46005	8.33	43927	8.50	41539	8.59	38697	8.60	35127	8.50	30295	8.35	-	-	-	-	-	-	-	-	-
	760	49191	8.74	47352	9.01	45349	9.19	43070	9.30	40399	9.32	37124	9.25	32847	9.10	-	-	-	-	-	-	-	-	-
	780	50486	9.45	48696	9.72	46762	9.92	44581	10.04	42058	10.08	39028	10.03	35190	9.89	30027	9.74	-	-	-	-	-	-	-
	800	51780	10.20	50038	10.48	48167	10.69	46075	10.82	43682	10.88	40858	10.84	37372	10.72	32817	10.55	-	-	-	-	-	-	-
15	840	54369	11.80	52712	12.11	50956	12.33	49019	12.49	46844	12.58	44347	12.58	41388	12.50	37727	12.34	32986	12.17	-	-	-	-	-
	860	55664	12.67	54046	12.98	52342	13.22	50472	13.39	48391	13.49	46026	13.51	43268	13.45	39931	13.31	35711	13.12	30312	13.04	-	-	-
	880	56958	13.57	55378	13.89	53722	14.14	51915	14.32	49918	14.44	47670	14.48	45084	14.43	42014	14.31	38223	14.13	33394	13.98	-	-	-
	900	58253	14.52	56708	14.85	55098	15.11	53349	15.30	51428	15.43	49285	15.48	46847	15.46	44000	15.36	40559	15.19	36250	15.00	30906	14.96	-

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



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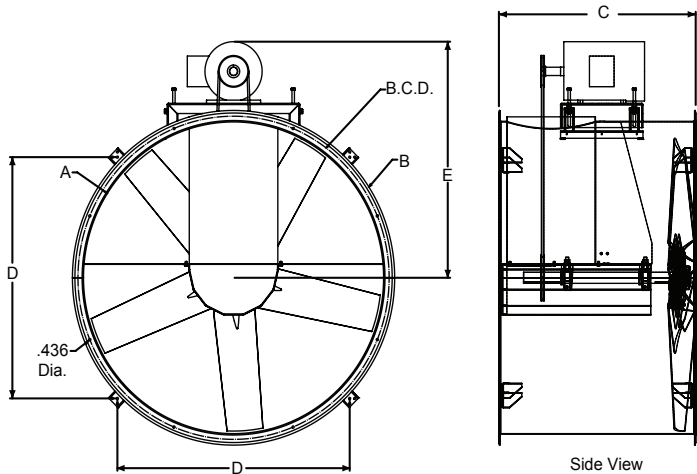




MODEL TDB
BELT DRIVE TUBEAXIAL DUCT FAN



Size 60



Max. Motor Frame: 286T
Shaft Size: 2-3/16"
Housing Gauge: 10
Approximate Weight: 798 lbs.
Flange Holes: 8
Diameter Flange Holes: 7/16"
Finish: Epoxy Coated
 Galvanized



A	B	C	D	E	B.C.D.
61	65-1/2	40	47-1/4	54-1/2	63-1/4

A: ID B: OD C: Length E: Max. Height

HP	RPM	Static Pressure (Inches W.G.)																			
		0		0.125		0.25		0.375		0.5		0.625		0.75		0.875		1		1.125	
		CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
5	520	43617	3.47	40228	3.71	36159	3.81	30434	3.76	-	-	-	-	-	-	-	-	-	-	-	-
	540	45294	3.89	42045	4.14	38237	4.26	33147	4.24	-	-	-	-	-	-	-	-	-	-	-	-
	560	46972	4.34	43850	4.60	40265	4.74	35660	4.75	28680	4.62	-	-	-	-	-	-	-	-	-	-
	580	48649	4.82	45643	5.10	42254	5.26	38031	5.29	32080	5.18	-	-	-	-	-	-	-	-	-	-
7 1/2	600	50327	5.33	47427	5.63	44209	5.80	40299	5.86	35079	5.78	26748	5.63	-	-	-	-	-	-	-	-
	620	52004	5.89	49202	6.20	46136	6.39	42488	6.46	37812	6.41	30921	6.25	-	-	-	-	-	-	-	-
	640	53682	6.47	50969	6.80	48041	7.00	44614	7.10	40362	7.08	34492	6.93	-	-	-	-	-	-	-	-
	660	55360	7.10	52730	7.44	49925	7.66	46691	7.78	42778	7.78	37641	7.66	-	-	-	-	-	-	-	-
10	680	57037	7.77	54485	8.12	51792	8.36	48726	8.49	45093	8.52	40504	8.43	34030	8.25	-	-	-	-	-	-
	700	58715	8.47	56235	8.84	53645	9.09	50726	9.25	47328	9.30	43164	9.24	37603	9.07	-	-	-	-	-	-
	720	60392	9.22	57980	9.60	55484	9.87	52697	10.04	49500	10.12	45676	10.08	40784	9.94	33849	9.75	-	-	-	-
	740	62070	10.01	59721	10.40	57311	10.69	54644	10.88	51620	10.98	48075	10.97	43690	10.85	37791	10.65	-	-	-	-
15	760	63747	10.84	61457	11.25	59128	11.55	56568	11.76	53698	11.88	50385	11.90	46397	11.81	41265	11.62	34071	11.44	-	-
	780	65425	11.72	63190	12.14	60936	12.46	58474	12.69	55738	12.82	52625	12.87	48957	12.81	44399	12.65	38286	12.43	-	-
	800	67103	12.65	64920	13.08	62735	13.41	60363	13.66	57748	13.81	54807	13.88	51402	13.85	47289	13.72	42000	13.50	-	-
	820	68780	13.62	66647	14.07	64527	14.41	62237	14.67	59731	14.85	56940	14.94	53756	14.94	49997	14.83	45329	14.64	-	-
20*	840	70458	14.64	68371	15.11	66312	15.46	64099	15.74	61691	15.94	59033	16.05	56038	16.07	52567	15.99	48376	15.82	43020	15.58
	860	72135	15.71	70093	16.19	68091	16.56	65948	16.85	63631	17.07	61091	17.20	58259	17.25	55027	17.20	51214	17.06	46500	16.83
	880	73813	16.83	71812	17.33	69864	17.71	67787	18.02	65552	18.25	63118	18.41	60430	18.47	57401	18.45	53893	18.34	49673	18.14
	900	75490	18.00	73529	18.52	71632	18.91	69616	19.24	67457	19.49	65120	19.66	62558	19.75	59703	19.76	56447	19.67	52618	19.50

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

***20HP motor is available by Special Quote only. Please contact Factory for more information.**



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SOUND CHARACTERISTICS

Size 12

RPM	Sound Performance Sones / LwA (Inches w.g.)				
	0	0.125	0.25	0.375	0.5
1550	18.1 / 80	16.3 / 78	-	-	-
1600	18.9 / 80	17.1 / 79	15.7 / 78	-	-
1650	19.8 / 81	18.1 / 80	16.7 / 79	-	-
1700	21 / 82	19 / 81	17.6 / 80	-	-
1725	21 / 83	19.5 / 81	18.1 / 80	-	-
1775	22 / 83	20 / 82	19.1 / 82	-	-
1825	23 / 85	22 / 83	20 / 83	-	-
1875	24 / 86	23 / 85	21 / 84	-	-
1925	25 / 87	24 / 86	23 / 85	22 / 84	-
2000	28 / 88	26 / 87	25 / 86	24 / 85	-
2075	30 / 90	29 / 89	27 / 88	26 / 87	-
2150	33 / 91	32 / 90	30 / 89	29 / 89	-
2200	35 / 92	34 / 91	32 / 90	30 / 90	-
2275	39 / 94	37 / 93	35 / 92	33 / 91	32 / 90
2350	43 / 96	40 / 95	38 / 94	36 / 93	35 / 92
2425	47 / 97	44 / 96	42 / 95	40 / 94	38 / 93

Size 16

RPM	Sound Performance Sones / LwA (Inches w.g.)									
	0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.25
1100	13.7 / 75	12.3 / 73	10.8 / 72	-	-	-	-	-	-	-
1175	16.1 / 77	14.7 / 76	13.3 / 74	-	-	-	-	-	-	-
1225	17.8 / 79	16.4 / 78	15 / 76	13.7 / 75	-	-	-	-	-	-
1275	19.7 / 81	18.1 / 79	16.8 / 78	15 / 76	-	-	-	-	-	-
1300	21 / 82	19.1 / 80	17.7 / 79	15.8 / 77	-	-	-	-	-	-
1350	23 / 83	21 / 82	19.6 / 81	17.8 / 79	16.7 / 79	-	-	-	-	-
1375	24 / 84	22 / 83	21 / 82	18.7 / 80	17.4 / 79	-	-	-	-	-
1425	27 / 86	25 / 85	23 / 83	21 / 82	19 / 80	-	-	-	-	-
1475	29 / 88	27 / 86	26 / 85	23 / 84	21 / 82	19.8 / 81	-	-	-	-
1525	32 / 89	30 / 88	28 / 86	26 / 85	23 / 83	21 / 82	-	-	-	-
1575	33 / 90	31 / 88	29 / 87	27 / 86	25 / 84	23 / 83	22 / 83	-	-	-
1625	35 / 90	32 / 89	31 / 88	29 / 87	26 / 86	24 / 84	23 / 84	-	-	-
1675	36 / 91	34 / 90	32 / 89	30 / 88	28 / 87	26 / 85	24 / 85	23 / 85	-	-
1750	38 / 92	36 / 91	34 / 90	33 / 89	31 / 88	28 / 87	26 / 86	25 / 86	-	-
1825	41 / 93	39 / 92	37 / 91	35 / 90	33 / 90	31 / 88	29 / 87	27 / 87	27 / 87	-
1875	42 / 93	40 / 92	38 / 92	36 / 91	35 / 90	32 / 89	30 / 88	29 / 88	28 / 88	-
1925	43 / 94	41 / 93	39 / 92	37 / 92	36 / 91	34 / 90	32 / 89	30 / 88	29 / 89	-
1975	44 / 94	42 / 94	40 / 93	39 / 92	37 / 92	36 / 91	34 / 90	32 / 89	31 / 89	31 / 90
2025	45 / 95	43 / 94	41 / 94	40 / 93	39 / 93	37 / 92	35 / 91	33 / 90	32 / 90	32 / 91
2075	46 / 96	44 / 95	43 / 94	41 / 94	40 / 93	39 / 93	37 / 92	35 / 91	33 / 91	33 / 91

The sound ratings shown are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels.



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Size 18

RPM	Sound Performance Sones / LwA (Inches w.g.)								
	0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1
1000	11.4 / 72	11 / 70	-	-	-	-	-	-	-
1050	12.3 / 73	11.9 / 72	12.1 / 72	-	-	-	-	-	-
1100	13.2 / 74	12.7 / 73	12.7 / 73	-	-	-	-	-	-
1125	13.7 / 75	13.2 / 74	13 / 73	-	-	-	-	-	-
1150	14.1 / 75	13.7 / 74	13.4 / 74	-	-	-	-	-	-
1200	15.1 / 77	14.6 / 75	14.2 / 74	15.2 / 77	-	-	-	-	-
1225	15.6 / 77	15.1 / 76	14.7 / 75	15.6 / 77	-	-	-	-	-
1275	16.7 / 78	16.2 / 77	15.8 / 76	16.3 / 78	-	-	-	-	-
1300	17.3 / 79	16.7 / 78	16.3 / 77	16.6 / 78	-	-	-	-	-
1350	18.4 / 80	17.9 / 79	17.3 / 78	17.4 / 78	-	-	-	-	-
1400	19.6 / 81	19.1 / 80.	18.6 / 79	18.2 / 79	19 / 81	-	-	-	-
1450	21 / 82	20 / 81	19.9 / 80	19.5 / 80	19.7 / 81	-	-	-	-
1500	22 / 83	22 / 82	21 / 82	21 / 81	20 / 82	21 / 83	-	-	-
1550	23 / 84	23 / 83	22 / 82	22 / 82	21 / 82	22 / 84	-	-	-
1600	24 / 85	24 / 84	23 / 83	23 / 83	22 / 83	23 / 84	-	-	-
1650	25 / 85	25 / 85	24 / 84	24 / 83	23 / 83	23 / 84	25 / 86	-	-
1675	25 / 86	25 / 85	25 / 85	24 / 84	24 / 83	24 / 85	25 / 86	-	-
1725	26 / 87	26 / 86	26 / 85	25 / 85	25 / 84	24 / 85	26 / 87	-	-
1775	27 / 87	27 / 87	27 / 86	26 / 86	26 / 85	25 / 85	26 / 87	28 / 88	-
1825	28 / 88	28 / 88	28 / 87	27 / 86	27 / 86	26 / 86	27 / 87	29 / 89	-
1850	29 / 88	29 / 88	28 / 87	28 / 87	27 / 86	27 / 86	27 / 87	29 / 89	-
1925	31 / 90	30 / 89	30 / 89	29 / 88	29 / 88	29 / 87	28 / 88	30 / 89	31 / 90
2000	33 / 91	32 / 90	32 / 90	31 / 89	30 / 89	30 / 88	30 / 88	31 / 89	33 / 91
2075	35 / 92	35 / 91	34 / 91	33 / 91	32 / 90	32 / 90	32 / 89.	32 / 90	34 / 91

The sound ratings shown are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels.



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Size 20

RPM	Sound Performance Sones / LwA (Inches w.g.)									
	0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.125
1050	13.6 / 76	12.8 / 75	-	-	-	-	-	-	-	-
1100	14.9 / 77	14.2 / 77	-	-	-	-	-	-	-	-
1125	15.6 / 78	14.9 / 77	13.9 / 77	-	-	-	-	-	-	-
1150	16.2 / 79	15.6 / 78	14.7 / 77	-	-	-	-	-	-	-
1175	16.9 / 79	16.2 / 79	15.4 / 78	-	-	-	-	-	-	-
1225	18.2 / 81	17.6 / 80	16.9 / 79	-	-	-	-	-	-	-
1275	19.7 / 82	19 / 81	18.3 / 81	17.4 / 80	-	-	-	-	-	-
1300	20 / 82	19.8 / 82	19 / 81	18 / 81	-	-	-	-	-	-
1325	21 / 83	21 / 83	19.8 / 82	18.7 / 81	-	-	-	-	-	-
1375	23 / 84	22 / 84	21 / 83	20 / 83	19.9 / 83	-	-	-	-	-
1400	24 / 85	23 / 84	22 / 84	21 / 83	21 / 83	-	-	-	-	-
1450	25 / 86	25 / 85	24 / 85	23 / 84	22 / 84	-	-	-	-	-
1525	28 / 87	27 / 87	26 / 86	25 / 86	24 / 85	-	-	-	-	-
1575	29 / 88	28 / 88	27 / 87	27 / 87	26 / 86	25 / 86	-	-	-	-
1625	30 / 89	30 / 89	29 / 88	28 / 88	27 / 87	26 / 87	-	-	-	-
1675	32 / 90	31 / 90	30 / 89	29 / 89	28 / 88	27 / 88	27 / 88	-	-	-
1700	32 / 90	32 / 90	31 / 90	30 / 89	29 / 89	28 / 88	28 / 88	-	-	-
1775	34 / 91	34 / 91	33 / 91	32 / 90	31 / 90	30 / 90	29 / 89	30 / 90	-	-
1850	36 / 93	36 / 92	35 / 92	34 / 92	34 / 91	33 / 91	31 / 91	31 / 91	-	-
1925	39 / 94	38 / 94	37 / 93	37 / 93	36 / 93	35 / 92	34 / 92	33 / 92	34 / 92	-
1950	40 / 94	39 / 94	38 / 94	38 / 93	37 / 93	36 / 93	35 / 92	34 / 92	35 / 92	-
2000	42 / 95	41 / 95	40 / 94	40 / 94	39 / 94	38 / 94	37 / 93	36 / 93	36 / 93	-
2050	44 / 96	43 / 96	42 / 95	42 / 95	41 / 95	40 / 94	39 / 94	38 / 94	38 / 94	38 / 94
2075	45 / 96	44 / 96	43 / 96	43 / 95	42 / 95	41 / 95	40 / 95	39 / 94	38 / 94	39 / 94

The sound ratings shown are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels.



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Size 24

RPM	Sound Performance Sones / LwA (Inches w.g.)								
	0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1
800	12.8 / 75	11.9 / 74	-	-	-	-	-	-	-
850	14.3 / 77	13.4 / 76	12.6 / 75	-	-	-	-	-	-
900	15.8 / 78	14.9 / 77	14 / 77	-	-	-	-	-	-
950	17.3 / 80	16.5 / 79	15.5 / 78	-	-	-	-	-	-
975	18.1 / 81	17.3 / 80	16.3 / 79	16.1 / 79	-	-	-	-	-
1025	19.6 / 82	18.8 / 81	18 / 81	17.6 / 80	-	-	-	-	-
1075	21 / 84	21 / 83	19.7 / 82	19.1 / 82	-	-	-	-	-
1125	23 / 85	22 / 84	22 / 84	21 / 83	21 / 83	-	-	-	-
1150	24 / 86	23 / 85	23 / 84	22 / 84	22 / 84	-	-	-	-
1200	26 / 87	25 / 86	25 / 86	24 / 85	23 / 85	-	-	-	-
1225	27 / 88	26 / 87	26 / 86	25 / 86	24 / 85	-	-	-	-
1250	28 / 88	28 / 88	27 / 87	26 / 86	25 / 86	25 / 86	-	-	-
1275	29 / 89	29 / 88	28 / 88	27 / 87	26 / 87	26 / 87	-	-	-
1325	32 / 90	31 / 90	30 / 89	29 / 88	28 / 88	28 / 88	-	-	-
1375	34 / 91	33 / 91	32 / 90	31 / 90	30 / 89	30 / 89	-	-	-
1425	36 / 92	35 / 92	34 / 91	33 / 91	32 / 90	31 / 90	31 / 90	-	-
1450	37 / 93	36 / 92	35 / 92	34 / 91	33 / 91	32 / 90	32 / 90	-	-
1500	39 / 94	38 / 93	37 / 93	36 / 92	35 / 92	34 / 91	34 / 91	34 / 91	-
1525	40 / 94	39 / 94	38 / 93	37 / 93	36 / 92	35 / 92	35 / 92	35 / 92	-
1550	41 / 94	41 / 94	40 / 94	38 / 93	37 / 93	36 / 92	36 / 92	36 / 92	-
1625	45 / 96	44 / 96	43 / 95	42 / 95	41 / 94	40 / 94	39 / 93	39 / 93	38 / 93
1675	47 / 97	47 / 97	46 / 96	44 / 96	43 / 95	42 / 95	41 / 94	41 / 94	41 / 94
1725	50 / 98	49 / 97	48 / 97	47 / 97	46 / 96	45 / 96	44 / 95	43 / 95	43 / 95
1775	52 / 98	52 / 98	51 / 98	50 / 98	49 / 97	48 / 97	46 / 96	45 / 96	45 / 96

The sound ratings shown are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels.



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Size 30

RPM	Sound Performance Sones / LwA (Inches w.g.)									
	0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.25
600	11.8 / 73	10.1 / 71	-	-	-	-	-	-	-	-
650	13.5 / 75	12 / 74	-	-	-	-	-	-	-	-
700	15.2 / 77	13.9 / 76	12.8 / 75	-	-	-	-	-	-	-
750	16.9 / 79	15.9 / 78	14.8 / 77	-	-	-	-	-	-	-
775	17.8 / 80	16.9 / 79	15.8 / 78	-	-	-	-	-	-	-
800	18.6 / 81	17.8 / 80	16.8 / 79	-	-	-	-	-	-	-
825	19.6 / 82	18.8 / 81	17.8 / 80	-	-	-	-	-	-	-
850	21 / 83	19.7 / 82	18.8 / 81	18.1 / 80	-	-	-	-	-	-
875	22 / 84	21 / 83	19.8 / 82	19.1 / 81	-	-	-	-	-	-
900	23 / 85	22 / 84	21 / 83	20 / 82	-	-	-	-	-	-
925	24 / 86	23 / 85	22 / 84	21 / 83	-	-	-	-	-	-
950	25 / 87	24 / 86	23 / 85	22 / 84	22 / 83	-	-	-	-	-
975	27 / 87	26 / 87	24 / 85	23 / 84	23 / 84	-	-	-	-	-
1025	29 / 89	28 / 88	27 / 87	26 / 86	25 / 86	-	-	-	-	-
1075	32 / 90	31 / 90	29 / 89	28 / 88	27 / 87	-	-	-	-	-
1100	34 / 91	33 / 91	31 / 89	29 / 89	29 / 88	28 / 88	-	-	-	-
1125	35 / 92	34 / 91	32 / 90	31 / 89	30 / 89	29 / 88	-	-	-	-
1150	37 / 93	36 / 92	34 / 91	32 / 90	31 / 89	30 / 89	-	-	-	-
1175	38 / 93	37 / 93	35 / 92	34 / 91	32 / 90	31 / 90	-	-	-	-
1200	39 / 94	38 / 93	37 / 92	35 / 91	33 / 91	32 / 90	32 / 90	-	-	-
1225	41 / 94	40 / 94	38 / 93	36 / 92	35 / 91	34 / 91	33 / 91	-	-	-
1275	43 / 95	42 / 95	41 / 94	39 / 93	38 / 93	36 / 92	36 / 92	-	-	-
1325	46 / 96	45 / 96	44 / 95	42 / 95	41 / 94	39 / 93	38 / 93	38 / 93	-	-
1375	49 / 97	48 / 97	47 / 96	45 / 96	44 / 95	42 / 95	41 / 94	41 / 94	-	-
1400	50 / 98	50 / 98	48 / 97	47 / 96	45 / 96	44 / 95	43 / 95	42 / 9	-	-
1475	55 / 99	54 / 99	53 / 99	51 / 98	50 / 98	49 / 97	48 / 97	46 / 96	46 / 96	-
1550	59 / 101	59 / 101	58 / 100	57 / 100	55 / 99	54 / 99	53 / 98	52 / 98	51 / 97	-
1600	63 / 101	63 / 101	61 / 101	60 / 101	59 / 100	58 / 100	56 / 99	55 / 99	54 / 98	53 / 98

The sound ratings shown are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels.



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Size 34

RPM	Sound Performance Sones / LwA (Inches w.g.)										
	0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.25	1.5
600	15.1 / 78	15.4 / 78	-	-	-	-	-	-	-	-	-
625	16.2 / 79	16.4 / 79	-	-	-	-	-	-	-	-	-
650	17.4 / 80	17.5 / 80	17.8 / 81	-	-	-	-	-	-	-	-
675	18.5 / 81	18.6 / 81	19 / 82	-	-	-	-	-	-	-	-
700	19.7 / 82	19.7 / 82	20 / 83	-	-	-	-	-	-	-	-
725	21 / 83	21 / 83	22 / 84	21 / 84	-	-	-	-	-	-	-
750	22 / 84	22 / 84	23 / 85	23 / 85	-	-	-	-	-	-	-
775	23 / 85	24 / 85	24 / 86	25 / 86	-	-	-	-	-	-	-
800	25 / 86	25 / 86	25 / 87	26 / 87	-	-	-	-	-	-	-
825	26 / 87	26 / 87	27 / 87	27 / 88	27 / 87	-	-	-	-	-	-
850	28 / 88	28 / 88	28 / 88	29 / 89	29 / 89	-	-	-	-	-	-
875	29 / 89	29 / 89	30 / 89	31 / 90	31 / 90	-	-	-	-	-	-
900	30 / 89	31 / 90	31 / 90	32 / 90	33 / 91	31 / 90	-	-	-	-	-
925	32 / 90	32 / 90	33 / 91	34 / 91	34 / 91	33 / 91	-	-	-	-	-
950	33 / 91	34 / 91	34 / 91	35 / 92	36 / 92	35 / 92	33 / 91	-	-	-	-
975	35 / 92	35 / 92	36 / 92	36 / 92	37 / 93	37 / 93	35 / 92	-	-	-	-
1025	38 / 93	38 / 93	38 / 93	39 / 93	39 / 94	40 / 94	39 / 94	37 / 93	-	-	-
1050	39 / 94	39 / 94	40 / 94	40 / 94	41 / 94	41 / 95	41 / 95	39 / 94	-	-	-
1100	43 / 95	43 / 95	43 / 95	43 / 95	44 / 96	44 / 96	44 / 96	43 / 95	-	-	-
1125	44 / 96	44 / 96	45 / 96	45 / 96	45 / 96	45 / 96	46 / 96	45 / 96	43 / 95	-	-
1175	48 / 97	48 / 97	48 / 97	48 / 97	48 / 97	48 / 97	49 / 98	49 / 98	47 / 97	-	-
1225	51 / 98	51 / 98	52 / 98	52 / 98	52 / 98	52 / 98	52 / 99	52 / 99	52 / 99	-	-
1275	55 / 99	55 / 99	55 / 99	55 / 99	55 / 99	55 / 100	55 / 100	55 / 100	56 / 100	-	-
1325	60 / 100	60 / 100	60 / 100	60 / 100	59 / 100	59 / 101	59 / 101	59 / 101	59 / 101	58 / 101	-
1375	64 / 101	64 / 101	64 / 101	64 / 101	64 / 102	64 / 102	63 / 102	64 / 102	64 / 102	64 / 102	-
1425	69 / 102	69 / 102	69 / 102	68 / 102	68 / 103	68 / 103	68 / 103	68 / 103	69 / 103	70 / 103	-
1475	74 / 103	74 / 103	73 / 103	73 / 103	73 / 103	72 / 104	73 / 104	73 / 104	74 / 104	75 / 104	74 / 104
1525	79 / 104	79 / 104	78 / 104	78 / 104	78 / 104	77 / 105	78 / 105	78 / 105	79 / 105	80 / 105	81 / 105

The sound ratings shown are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels.



S&P, Div. of Soler & Palau Ventilation Group certifies that the Models TDB shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



Size 36

RPM	Sound Performance Sones / LwA (Inches w.g.)											
	0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.25	1.5	
650	18.3 / 80	17.2 / 80	-	-	-	-	-	-	-	-	-	-
675	19.5 / 81	18.3 / 81	17.6 / 81	-	-	-	-	-	-	-	-	-
700	21 / 82	19.5 / 82	18.7 / 82	-	-	-	-	-	-	-	-	-
725	22 / 83	21 / 83	19.8 / 83	-	-	-	-	-	-	-	-	-
750	23 / 84	22 / 84	21 / 83	21 / 84	-	-	-	-	-	-	-	-
775	24 / 85	23 / 85	22 / 84	22 / 84	-	-	-	-	-	-	-	-
800	26 / 86	25 / 86	23 / 85	23 / 85	-	-	-	-	-	-	-	-
825	27 / 87	26 / 87	25 / 86	24 / 86	24 / 86	-	-	-	-	-	-	-
875	30 / 89	29 / 89	27 / 88	27 / 88	26 / 88	-	-	-	-	-	-	-
900	32 / 90	30 / 90	29 / 89	28 / 89	28 / 89	-	-	-	-	-	-	-
925	33 / 91	32 / 90	31 / 90	30 / 89	29 / 89	-	-	-	-	-	-	-
950	35 / 92	34 / 91	32 / 91	31 / 90	31 / 90	30 / 90	-	-	-	-	-	-
975	36 / 92	35 / 92	34 / 91	33 / 91	32 / 91	32 / 91	-	-	-	-	-	-
1000	38 / 93	37 / 93	36 / 92	35 / 92	34 / 92	33 / 92	-	-	-	-	-	-
1025	40 / 94	39 / 94	38 / 93	36 / 93	36 / 92	35 / 92	35 / 92	-	-	-	-	-
1050	42 / 95	41 / 94	40 / 94	38 / 93	37 / 93	36 / 93	36 / 93	36 / 93	-	-	-	-
1100	45 / 96	44 / 96	43 / 95	42 / 95	41 / 94	40 / 94	39 / 94	39 / 94	-	-	-	-
1125	47 / 97	46 / 96	45 / 96	44 / 95	42 / 95	41 / 95	41 / 95	40 / 95	-	-	-	-
1150	49 / 97	48 / 97	47 / 96	45 / 96	44 / 96	43 / 96	42 / 96	42 / 96	-	-	-	-
1175	51 / 98	50 / 98	49 / 97	47 / 97	46 / 96	45 / 96	44 / 96	44 / 96	43 / 96	-	-	-
1225	55 / 99	54 / 99	53 / 98	51 / 98	50 / 98	49 / 97	48 / 97	47 / 97	47 / 97	-	-	-
1275	59 / 100	58 / 100	57 / 100	55 / 99	54 / 99	52 / 99	52 / 98	51 / 98	50 / 98	51 / 99	-	-
1350	66 / 102	65 / 102	63 / 101	62 / 101	60 / 101	59 / 100	58 / 100	57 / 100	56 / 100	55 / 100	-	-
1400	70 / 103	70 / 103	68 / 102	66 / 102	65 / 102	63 / 101	62 / 101	61 / 101	60 / 101	59 / 101	-	-
1450	75 / 104	74 / 104	73 / 103	71 / 103	69 / 103	68 / 102	66 / 102	65 / 102	65 / 102	64 / 102	-	-
1500	80 / 105	79 / 105	78 / 104	76 / 104	74 / 104	73 / 104	71 / 103	70 / 103	69 / 103	68 / 103	67 / 103	-
1550	85 / 106	85 / 106	83 / 105	81 / 105	79 / 105	78 / 105	76 / 104	75 / 104	74 / 104	73 / 104	72 / 104	-
1600	90 / 107	90 / 107	88 / 106	87 / 106	85 / 106	83 / 106	81 / 105	80 / 105	78 / 105	77 / 105	76 / 105	-

The sound ratings shown are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels.



S&P, Div. of Soler & Palau Ventilation Group certifies that the Models TDB shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



Size 42

RPM	Sound Performance Sones / LwA (Inches w.g.)										
	0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.25	1.5
480	17 / 80	16.5 / 79	-	-	-	-	-	-	-	-	-
520	19.4 / 82	18.9 / 82	17.2 / 80	-	-	-	-	-	-	-	-
560	22 / 84	21 / 84	21 / 83	-	-	-	-	-	-	-	-
600	24 / 86	24 / 86	23 / 85	-	-	-	-	-	-	-	-
640	27 / 88	27 / 88	26 / 87	24 / 86	-	-	-	-	-	-	-
660	29 / 89	28 / 89	28 / 88	26 / 87	-	-	-	-	-	-	-
680	30 / 90	30 / 89	29 / 89	28 / 88	-	-	-	-	-	-	-
700	32 / 91	31 / 90	31 / 90	30 / 89	-	-	-	-	-	-	-
720	33 / 91	33 / 91	32 / 91	31 / 90	29 / 88	-	-	-	-	-	-
740	35 / 92	34 / 92	34 / 92	33 / 91	31 / 90	-	-	-	-	-	-
760	37 / 93	36 / 93	35 / 92	35 / 92	33 / 91	-	-	-	-	-	-
800	40 / 94	40 / 94	39 / 94	38 / 93	37 / 93	-	-	-	-	-	-
820	42 / 95	42 / 95	41 / 95	40 / 94	39 / 94	37 / 92	-	-	-	-	-
840	44 / 96	44 / 96	43 / 95	42 / 95	41 / 95	39 / 94	-	-	-	-	-
860	46 / 96	46 / 96	45 / 96	44 / 96	43 / 95	42 / 95	-	-	-	-	-
900	49 / 98	49 / 97	49 / 97	48 / 97	47 / 97	46 / 96	44 / 95	-	-	-	-
940	53 / 99	53 / 99	52 / 98	51 / 98	50 / 98	50 / 98	48 / 97	46 / 96	-	-	-
980	57 / 100	57 / 100	56 / 100	55 / 99	54 / 99	54 / 99	53 / 99	50 / 98	-	-	-
1020	61 / 101	61 / 101	60 / 101	59 / 100	59 / 100	58 / 100	57 / 100	55 / 99	-	-	-
1060	65 / 102	65 / 102	65 / 102	64 / 102	63 / 101	62 / 101	61 / 101	61 / 101	58 / 100	-	-
1100	70 / 103	70 / 103	69 / 103	68 / 103	68 / 102	67 / 102	66 / 102	65 / 102	64 / 101	-	-
1140	75 / 104	75 / 104	74 / 104	73 / 104	73 / 103	72 / 103	71 / 103	70 / 103	69 / 103	-	-
1180	80 / 105	80 / 105	79 / 105	79 / 105	78 / 104	77 / 104	76 / 104	75 / 104	74 / 104	-	-
1200	82 / 105	82 / 105	82 / 105	81 / 105	80 / 105	80 / 105	79 / 105	78 / 104	77 / 104	74 / 103	-
1240	88 / 106	88 / 106	87 / 106	86 / 106	86 / 106	85 / 106	84 / 106	83 / 105	82 / 105	80 / 105	-
1260	90 / 107	90 / 107	90 / 107	89 / 106	88 / 106	88 / 106	87 / 106	86 / 106	85 / 106	83 / 105	-
1300	96 / 107	96 / 107	96 / 107	95 / 107	94 / 107	93 / 107	93 / 107	92 / 107	91 / 107	89 / 106	86 / 106

The sound ratings shown are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels.



S&P, Div. of Soler & Palau Ventilation Group certifies that the Models TDB shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



Size 48

RPM	Sound Performance Sones / LwA (Inches w.g.)										
	0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.25	1.5
460	21 / 82	20 / 82	19.8 / 81	-	-	-	-	-	-	-	-
480	23 / 84	22 / 83	22 / 83	-	-	-	-	-	-	-	-
500	24 / 85	24 / 84	23 / 84	-	-	-	-	-	-	-	-
520	27 / 86	26 / 86	26 / 85	25 / 85	-	-	-	-	-	-	-
540	29 / 87	29 / 87	28 / 86	27 / 86	-	-	-	-	-	-	-
560	32 / 88	32 / 88	30 / 87	29 / 87	-	-	-	-	-	-	-
580	35 / 89	34 / 89	33 / 89	32 / 88	30 / 88	-	-	-	-	-	-
600	38 / 90	38 / 90	36 / 90	34 / 89	33 / 89	-	-	-	-	-	-
620	41 / 91	41 / 91	39 / 91	37 / 90	36 / 90	-	-	-	-	-	-
640	43 / 92	43 / 92	42 / 92	40 / 91	38 / 91	-	-	-	-	-	-
660	45 / 93	45 / 93	44 / 93	42 / 92	41 / 92	39 / 92	-	-	-	-	-
680	47 / 94	47 / 94	46 / 93	44 / 93	43 / 93	42 / 92	41 / 92	-	-	-	-
720	52 / 95	52 / 95	51 / 95	49 / 95	48 / 95	46 / 94	45 / 94	-	-	-	-
760	57 / 97	57 / 97	56 / 97	54 / 97	53 / 96	52 / 96	51 / 96	50 / 96	-	-	-
780	59 / 98	59 / 98	59 / 98	57 / 97	56 / 97	54 / 97	54 / 97	53 / 97	-	-	-
820	64 / 99	64 / 99	64 / 99	63 / 99	61 / 99	60 / 99	60 / 98	59 / 98	58 / 98	58 / 98	-
860	70 / 101	70 / 101	70 / 101	69 / 100	68 / 100	67 / 100	66 / 100	66 / 100	65 / 100	64 / 99	64 / 99
880	73 / 101	73 / 101	73 / 101	72 / 101	71 / 101	71 / 101	70 / 101	69 / 101	68 / 100	67 / 100	67 / 100
900	77 / 102	77 / 102	77 / 102	76 / 102	75 / 102	75 / 102	74 / 101	73 / 101	72 / 101	71 / 101	70 / 101
940	85 / 103	85 / 103	85 / 103	84 / 103	83 / 103	82 / 103	81 / 103	80 / 103	79 / 103	79 / 102	78 / 102
960	89 / 104	89 / 104	89 / 104	89 / 104	88 / 104	87 / 104	86 / 104	85 / 103	84 / 103	83 / 103	82 / 103
980	94 / 105	94 / 105	94 / 105	93 / 105	92 / 105	91 / 104	90 / 104	89 / 104	88 / 104	87 / 104	86 / 104
1000	99 / 105	99 / 105	99 / 105	98 / 105	97 / 105	96 / 105	94 / 105	93 / 105	92 / 105	91 / 104	90 / 104

The sound ratings shown are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels.



S&P, Div. of Soler & Palau Ventilation Group certifies that the Models TDB shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



Size 54

RPM	Sound Performance Sones / LwA (Inches w.g.)										
	0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.125	1.5
460	29 / 87	27 / 86	25 / 85	-	-	-	-	-	-	-	-
480	31 / 88	29 / 87	28 / 87	-	-	-	-	-	-	-	-
500	33 / 89	32 / 89	30 / 88	29 / 87	-	-	-	-	-	-	-
520	36 / 90	34 / 90	33 / 89	31 / 88	-	-	-	-	-	-	-
560	42 / 93	40 / 92	38 / 92	37 / 91	-	-	-	-	-	-	-
580	44 / 93	43 / 93	41 / 93	39 / 92	-	-	-	-	-	-	-
600	47 / 95	45 / 94	44 / 94	42 / 93	41 / 93	-	-	-	-	-	-
620	50 / 96	48 / 95	47 / 95	45 / 94	44 / 94	-	-	-	-	-	-
660	56 / 97	55 / 97	53 / 97	51 / 96	50 / 96	48 / 95	-	-	-	-	-
680	60 / 98	58 / 98	56 / 97	55 / 97	53 / 97	51 / 96	-	-	-	-	-
700	63 / 99	62 / 99	60 / 98	58 / 98	56 / 98	55 / 97	-	-	-	-	-
720	66 / 100	65 / 100	63 / 99	62 / 99	60 / 99	58 / 98	57 / 98	-	-	-	-
740	70 / 101	68 / 101	67 / 100	65 / 100	64 / 100	62 / 99	60 / 99	-	-	-	-
760	74 / 102	72 / 101	71 / 101	69 / 101	67 / 100	66 / 100	64 / 100	-	-	-	-
780	78 / 102	76 / 102	75 / 102	73 / 101	71 / 101	69 / 101	68 / 101	66 / 100	-	-	-
800	82 / 103	80 / 103	78 / 103	76 / 102	75 / 102	74 / 102	72 / 101	70 / 101	-	-	-
840	90 / 105	89 / 104	87 / 104	85 / 104	84 / 104	82 / 103	80 / 103	79 / 103	77 / 102	-	-
860	95 / 105	93 / 105	91 / 105	89 / 104	88 / 104	86 / 104	85 / 104	83 / 104	81 / 103	79 / 103	-
880	99 / 106	97 / 106	96 / 105	94 / 105	93 / 105	91 / 105	89 / 105	87 / 104	86 / 104	84 / 104	-
900	104 / 106	103 / 107	100 / 106	98 / 106	97 / 106	96 / 106	94 / 105	92 / 105	90 / 105	89 / 105	87 / 104

The sound ratings shown are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels.



S&P, Div. of Soler & Palau Ventilation Group certifies that the Models TDB shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



Size 60

RPM	Sound Performance Sones / LwA (Inches w.g.)									
	0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.125
520	34 / 89	30 / 87	29 / 87	32 / 87	-	-	-	-	-	-
540	37 / 90	33 / 89	31 / 88	34 / 88	-	-	-	-	-	-
560	40 / 91	36 / 90	33 / 89	36 / 89	38 / 89	-	-	-	-	-
580	43 / 92	39 / 91	36 / 90	39 / 90	41 / 90	-	-	-	-	-
600	46 / 93	42 / 92	39 / 91	41 / 91	44 / 91	45 / 91	-	-	-	-
620	49 / 94	46 / 93	42 / 92	43 / 92	47 / 92	48 / 92	-	-	-	-
640	53 / 95	49 / 94	45 / 93	45 / 93	49 / 93	52 / 93	-	-	-	-
660	57 / 96	53 / 95	49 / 94	48 / 93	52 / 94	56 / 94	-	-	-	-
680	60 / 96	56 / 96	53 / 95	50 / 94	54 / 95	59 / 95	60 / 95	-	-	-
700	64 / 97	60 / 97	56 / 96	53 / 95	57 / 95	62 / 96	64 / 96	-	-	-
720	69 / 98	64 / 97	60 / 97	57 / 96	59 / 96	64 / 97	69 / 97	69 / 97	-	-
740	72 / 99	68 / 98	64 / 98	60 / 97	62 / 97	67 / 97	73 / 98	74 / 98	-	-
760	75 / 100	71 / 99	67 / 98	64 / 98	63 / 98	69 / 98	75 / 98	78 / 99	78 / 99	-
780	78 / 101	74 / 100	71 / 99	67 / 99	65 / 98	70 / 99	76 / 99	81 / 99	81 / 99	-
800	82 / 101	78 / 101	74 / 100	70 / 99	67 / 99	72 / 99	77 / 100	83 / 100	85 / 100	-
820	85 / 102	81 / 101	77 / 101	74 / 100	71 / 100	74 / 100	79 / 100	85 / 101	89 / 101	-
840	89 / 103	85 / 102	81 / 102	77 / 101	74 / 100	76 / 100	80 / 101	86 / 101	92 / 102	92 / 102
860	93 / 103	89 / 103	85 / 102	81 / 102	78 / 101	77 / 101	82 / 101	88 / 102	94 / 102	96 / 102
880	96 / 104	92 / 104	89 / 103	85 / 103	81 / 102	80 / 102	84 / 102	89 / 102	96 / 103	100 / 103
900	100 / 105	96 / 104	92 / 104	89 / 103	85 / 103	82 / 102	86 / 103	91 / 103	97 / 103	104 / 104

The sound ratings shown are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels.



S&P, Div. of Soler & Palau Ventilation Group certifies that the Models TDB shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



Size 60

RPM	Sound Performance Sones / LwA (Inches w.g.)									
	0	0.125	0.25	0.375	0.5	0.625	0.75	0.875	1	1.125
520	34 / 89	30 / 87	29 / 87	32 / 87	-	-	-	-	-	-
540	37 / 90	33 / 89	31 / 88	34 / 88	-	-	-	-	-	-
560	40 / 91	36 / 90	33 / 89	36 / 89	38 / 89	-	-	-	-	-
580	43 / 92	39 / 91	36 / 90	39 / 90	41 / 90	-	-	-	-	-
600	46 / 93	42 / 92	39 / 91	41 / 91	44 / 91	45 / 91	-	-	-	-
620	49 / 94	46 / 93	42 / 92	43 / 92	47 / 92	48 / 92	-	-	-	-
640	53 / 95	49 / 94	45 / 93	45 / 93	49 / 93	52 / 93	-	-	-	-
660	57 / 96	53 / 95	49 / 94	48 / 93	52 / 94	56 / 94	-	-	-	-
680	60 / 96	56 / 96	53 / 95	50 / 94	54 / 95	59 / 95	60 / 95	-	-	-
700	64 / 97	60 / 97	56 / 96	53 / 95	57 / 95	62 / 96	64 / 96	-	-	-
720	69 / 98	64 / 97	60 / 97	57 / 96	59 / 96	64 / 97	69 / 97	69 / 97	-	-
740	72 / 99	68 / 98	64 / 98	60 / 97	62 / 97	67 / 97	73 / 98	74 / 98	-	-
760	75 / 100	71 / 99	67 / 98	64 / 98	63 / 98	69 / 98	75 / 98	78 / 99	78 / 99	-
780	78 / 101	74 / 100	71 / 99	67 / 99	65 / 98	70 / 99	76 / 99	81 / 99	81 / 99	-
800	82 / 101	78 / 101	74 / 100	70 / 99	67 / 99	72 / 99	77 / 100	83 / 100	85 / 100	-
820	85 / 102	81 / 101	77 / 101	74 / 100	71 / 100	74 / 100	79 / 100	85 / 101	89 / 101	-
840	89 / 103	85 / 102	81 / 102	77 / 101	74 / 100	76 / 100	80 / 101	86 / 101	92 / 102	92 / 102
860	93 / 103	89 / 103	85 / 102	81 / 102	78 / 101	77 / 101	82 / 101	88 / 102	94 / 102	96 / 102
880	96 / 104	92 / 104	89 / 103	85 / 103	81 / 102	80 / 102	84 / 102	89 / 102	96 / 103	100 / 103
900	100 / 105	96 / 104	92 / 104	89 / 103	85 / 103	82 / 102	86 / 103	91 / 103	97 / 103	104 / 104

The sound ratings shown are loudness values in fan sones at 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for: Installation Type A: free inlet hemispherical sone levels.



S&P Canada Ventilation Products, Inc., Div. of Soler & Palau Ventilation Group certifies that the Models TDB shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



MODEL TDD

DIRECT DRIVE TUBEAXIAL DUCT FAN



MODEL FEATURES

- Rated up to 39,000 CFM in static pressure applications up to 1-1/4" w.g.
- Direct drive units have low sound levels and quiet operation
- Smaller sizes for areas with reduced airflow needs
- Require practically no maintenance
- AMCA Air Licensed

MODEL OVERVIEW

S&P's tubeaxial line offers the widest range of sizes, horsepower and performance in the industry. Models TDD are high capacity tubeaxial fans rated from 800 to 39,000 CFM, with static pressure capability up to 1-1/4". They are used to exhaust air from or supply air to such typical commercial and industrial applications as general building ventilation, enclosed garages, paint spray booths, heat and smoke ventilation systems and other applications where air is moved through a duct system against moderate static pressure.


Direct drive Models TDD are best used for exhausting or supplying relatively clean ambient temperature air. They are available in smaller sizes for areas with reduced airflow needs and require practically no maintenance.

CONSTRUCTION FEATURES AND OPTIONS

Mounting Supports
Eight (8) mounting supports are welded to each fan to allow for universal mounting.

Propeller
Polypropylene and aluminum propellers are selected for maximum airflow and low sound.

Factory Run & Tested
For quality assurance and dependable operation.

cULus 705 Listed
For electrical reliability. 

ACMA Seal
Assures rating of Air Performance.

Integral Inlet and Outlet Flanges
With mounting holes.

Motor
National brands with local service. Standard motors are heavy-duty open drip-proof. Other options available.

Housing
Heavy-gauge rolled galvanized steel with continuous welded seam and epoxy coating for maximum strength.

2 year fan housing warranty, 1 year motor warranty

All specifications are subject to change without notice unless approved in submittal by S&P USA.



CONSTRUCTION/SPECIFICATION CHECKLIST

Fan Housing

- Heavy-gauge rolled galvanized steel construction.
- Integral inlet and outlet flanges with mounting holes.
- Continuous welded and epoxy coated.
- Eight mounting supports welded to each fan.
- Rolled steel flange reinforcement on each end.

Propeller (Sizes 12 - 18)

- Polypropylene blades.
- Steel bushing.
- Blades are pitched for optimum efficiency.
- Statically and dynamically balanced.
- Aluminum blades are optional (by special quote only).

Propeller (Sizes 20-48)

- Three, five or six wing airfoil aluminum blades.
- Steel or aluminum hub plate with steel bushing.
- Blades are pitched for optimum efficiency.
- Statically and dynamically balanced.
- Polypropylene blades are optional (by special quote only).

Motors

- One year motor warranty.
- Brands are nationally recognized and locally serviced.
- Open drip-proof construction is standard.
- Premium-efficiency, explosion proof, totally enclosed fan cooled (TEFC) and corrosion duty motors can be specified.

Certifications

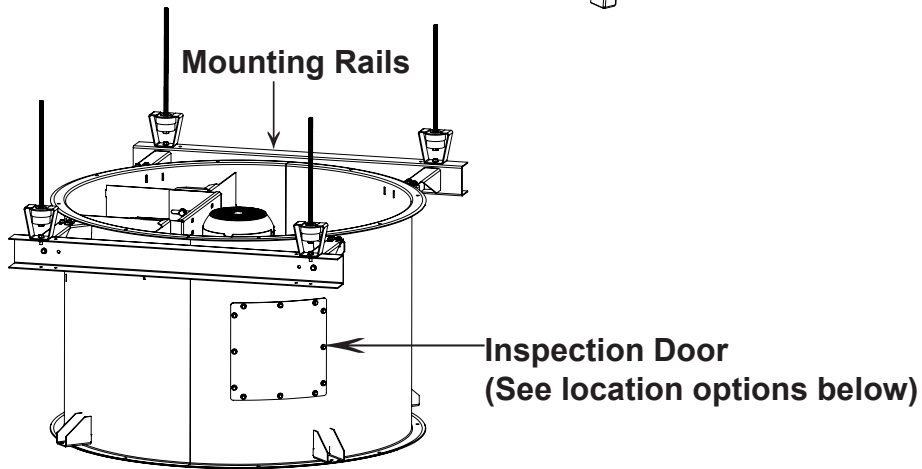
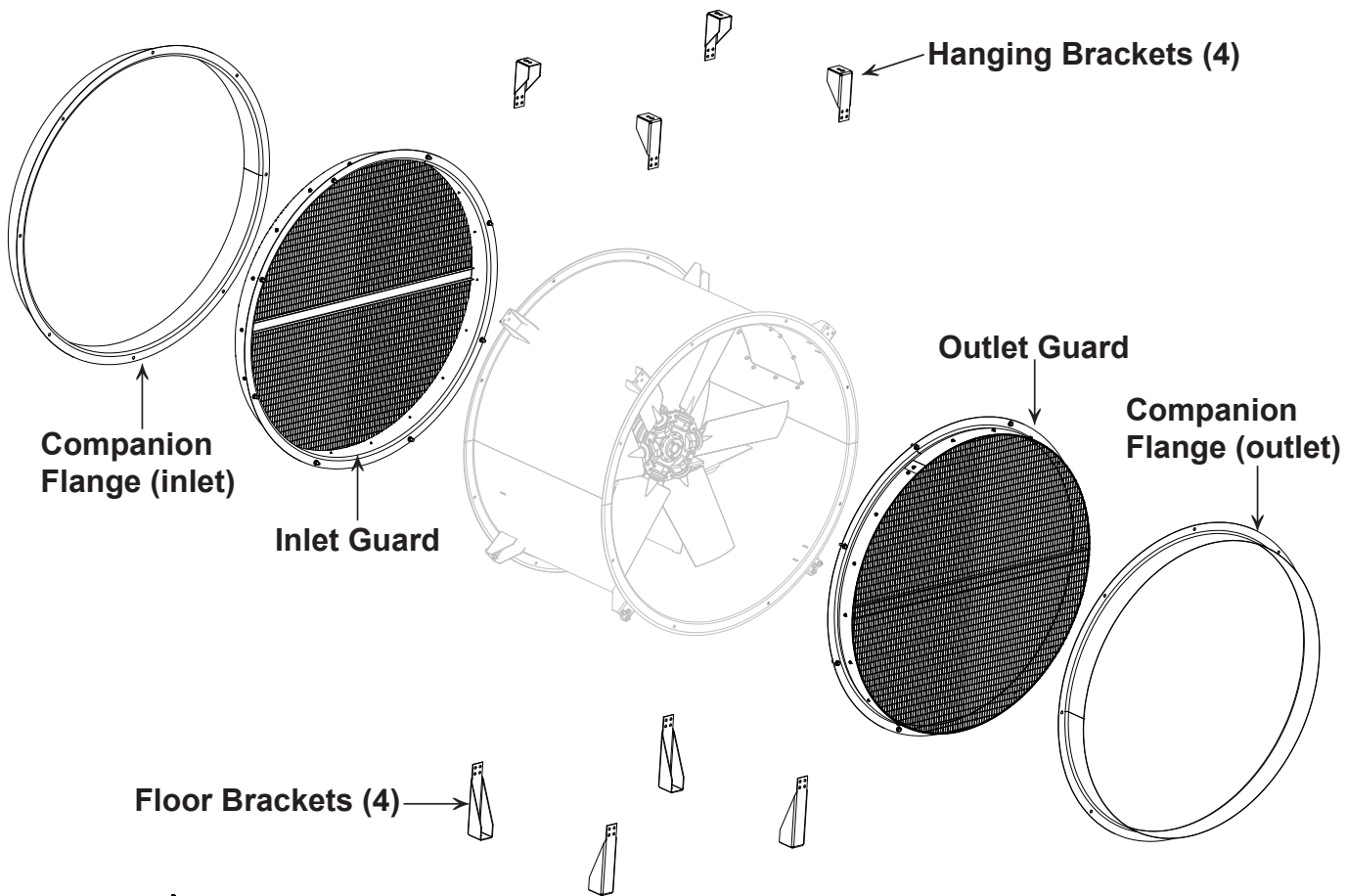
- cULus 705 Listed.
- AMCA Air Licensed.

Entire Fan Unit

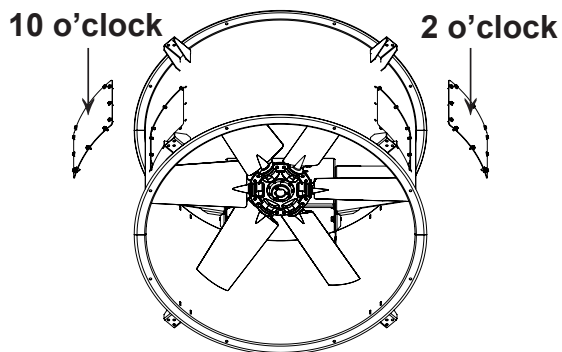
- Factory assembled and tested prior to shipment for quality assurance.



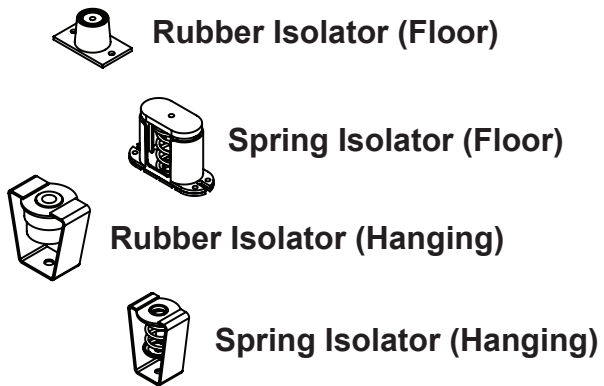
OPTIONS/ACCESSORIES



Inspection Door Location Options



Floor or Hanging Isolator Options





OPTIONS/ACCESSORIES

Hanging & Floor Brackets: For base or ceiling mounting. Neoprene and spring isolators are available.

Mounting Rails: Designed for vertical and horizontal mounting. Rail kits include mounting brackets. Vertical mounting available by special quote on sizes 34-48”.

Inlet/Outlet Guard: Prevents objects from entering the fan inlet or outlet. Includes companion flange.

Inspection Door: For inspection and blade service/cleaning. Bolted. Not available on sizes 12 and 16.

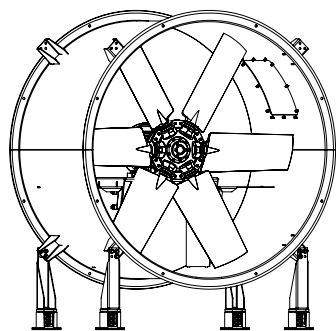
Companion Flanges: Inlet and/or outlet flanges are available for duct connection.

Disconnect Switch: Nonfused safety disconnect available for all motor sizes and enclosures. Specify prewired if desired. (Wiring not available on explosion proof and two speed motors).

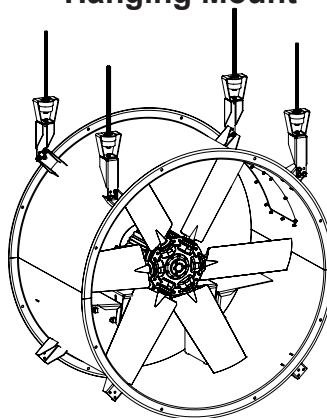
Special Coatings (*Epoxy Coating is Standard*): For protective and decorative purposes. Available coatings include: Synthetic Resin and Heresite (air-dried phenolic). Contact your representative or the factory for more information on available coatings and colors.

MOUNTING CONFIGURATIONS

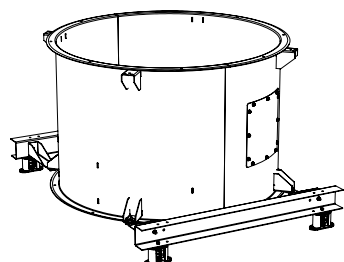
Floor Mount



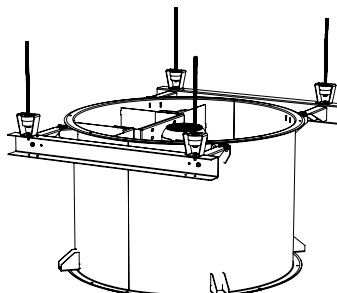
Hanging Mount



Vertical Rail Floor Mount



Vertical Rail Hanging Mount



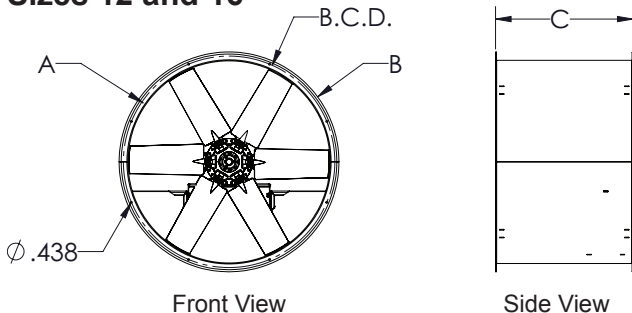
Vertical mounting available on special quote on sizes 34-48”.

Note: The 12 & 16 are designed to mount to a supported duct work and do not have all mounting configurations.



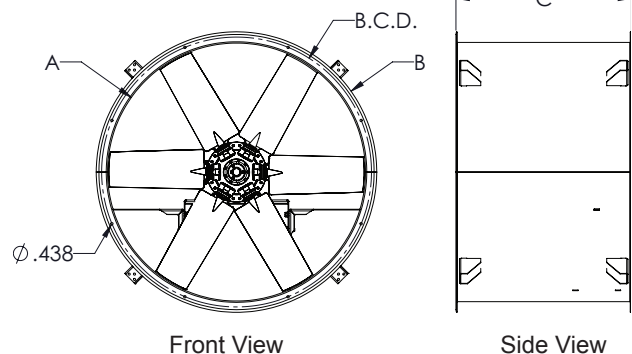
PERFORMANCE & DIMENSIONS

Sizes 12 and 16



	12	16	18	20	24
Max. Motor Frame:	56	56	145T	145T	213T
Housing Gauge:	16	16	14	14	12
Approx. Weight:	90	108	150	178	273
Flange Holes:	6	8	8	8	8
Diameter Flange Holes:	7/16"				
Finish:	Epoxy Coated Galvanized				

Sizes 18, 20 and 24



Size	A	B	C*	B.C.D.
12	12-3/8	15	12	13-1/2
16	16-3/8	18-7/8	16-1/2	17-3/8
18	18-3/8	22-1/2	22	19-3/4
20	20-3/8	24-1/2	22	21-3/4
24	24-3/8	28-5/8	23	25-3/4

A: ID B: OD C: Length (*motor may extend past unit)

TDD	HP	RPM	Static Pressure (Inches W.G.)																		Sones @ 5 ft			
			0		1/8		1/4		3/8		1/2		5/8		3/4		7/8		1			1 1/4		
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP		CFM	BHP	
	1/4	1140	816	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15.9	
12	1/4	1725	1294	0.26	1174	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	
	1/3	1725	1507	0.35	1376	0.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	
16	1/3	1140	2132	0.26	1889	0.28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.1	
	1/2	1725	2898	0.50	2692	0.52	2446	0.53	2106	0.53	-	-	-	-	-	-	-	-	-	-	-	-	19.5	
	3/4	1725	3240	0.68	3095	0.72	2923	0.75	2686	0.77	2250	0.77	-	-	-	-	-	-	-	-	-	-	22.4	
18	1/3	1140	3055	0.32	2601	0.34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16.3	
	1/2	1140	3392	0.41	3092	0.45	2525	0.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.8	
	1	1725	4609	0.90	4358	0.93	4067	0.95	3690	0.94	3061	0.91	-	-	-	-	-	-	-	-	-	-	22.6	
	1-1/2	1725	5226	1.19	5047	1.24	4850	1.28	4603	1.31	4264	1.31	3677	1.28	-	-	-	-	-	-	-	-	-	25.1
20	1/4	1725	1643	0.20	1159	0.23	643	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	
	1/3	1725	1760	0.23	1498	0.26	1201	0.28	910	0.31	646	0.33	-	-	-	-	-	-	-	-	-	-	29.3	
	1/2	1725	2354	0.27	2112	0.31	1815	0.35	1484	0.38	1175	0.41	902	0.43	652	0.46	-	-	-	-	-	-	-	28.2
	3/4	1725	4339	0.61	4058	0.67	3718	0.71	3263	0.74	2661	0.77	-	-	-	-	-	-	-	-	-	-	-	23.2
	1	1725	4777	0.80	4541	0.87	4272	0.92	3895	0.95	3307	0.98	2527	1.05	-	-	-	-	-	-	-	-	-	24.2
24	1/4	1140	2640	0.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17.5	
	1/3	1140	4566	0.33	3726	0.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18.1	
	3/4	1140	6396	0.71	5882	0.77	5108	0.80	3441	0.83	-	-	-	-	-	-	-	-	-	-	-	-	21.5	
	1-1/2	1725	7549	1.13	7081	1.20	6502	1.24	5691	1.27	4578	1.31	3394	1.47	-	-	-	-	-	-	-	-	-	25.9
	2	1725	8627	2.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32.3
	3	1725	9585	2.22	9287	2.32	8974	2.41	8591	2.47	8081	2.51	7280	2.53	5336	2.53	3695	2.84	2799	3.16	-	-	-	31.3

Speed (RPM) shown is nominal.
Performance certified is for installation type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance ratings only.

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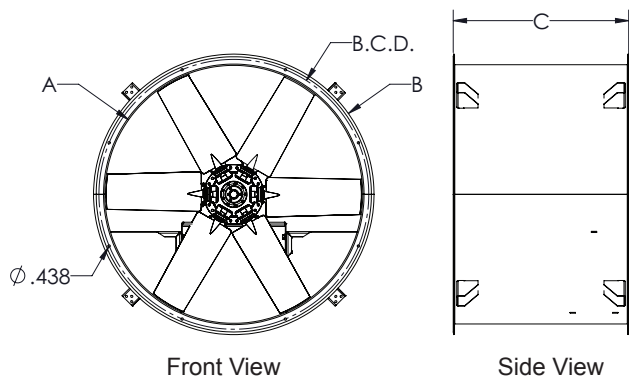




MODEL TDD
DIRECT DRIVE TUBEAXIAL DUCT FAN



Sizes 30, 34 and 36



Max. Motor Frame: 215T
Housing Gauge: 30" & 34" = 12
 36" = 10
Approximate Weight: 30" = 320 lbs.
 34" = 457 lbs
 36" = 532 lbs.
Flange Holes: 8
Diameter Flange Holes: 7/16"
Finish: Epoxy Coated Galvanized

Size	A	B	C*	B.C.D.
30	30-3/8	34-5/8	24	32
34	34-3/8	38-5/8	27	36-3/8
36	36-3/8	40-5/8	29	38

A: ID B: OD C: Length (*motor may extend past unit)

TDD	HP	RPM	Static Pressure (Inches W.G.)																Sones @ 5 ft				
			0		1/8		1/4		3/8		1/2		5/8		3/4		7/8			1		1 1/4	
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP		CFM	BHP	CFM	BHP
30	1/2	870	6127	0.39	4977	0.42	3093	0.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.4
	3/4	870	8818	0.71	7645	0.73	6119	0.74	2639	0.80	-	-	-	-	-	-	-	-	-	-	-	-	19.9
	1	870	9248	0.81	8471	0.89	7609	0.95	6551	1.00	5050	1.01	2784	1.07	-	-	-	-	-	-	-	-	20.5
	3/4	1140	8115	0.65	7254	0.70	6300	0.74	5148	0.75	3541	0.76	1449	0.77	-	-	-	-	-	-	-	-	24.4
	1	1140	10185	0.94	9343	1.00	8427	1.04	7346	1.05	5809	1.04	-	-	-	-	-	-	-	-	-	-	21.9
	1-1/2	1140	10618	1.07	9972	1.16	9265	1.23	8434	1.29	7404	1.33	6037	1.35	4258	1.36	2658	1.47	1559	1.63	-	-	25.7
	2	1140	13011	1.91	12094	1.92	10915	1.93	9300	1.93	7405	1.99	5886	2.15	-	-	-	-	-	-	-	-	26.2
	3	1725	15387	2.60	14815	2.70	14244	2.78	13663	2.84	13062	2.88	12430	2.91	11752	2.93	11005	2.93	10153	2.93	7741	2.90	35.1
	1	870	11431	0.86	10269	0.97	8980	1.03	7339	1.05	4698	1.08	-	-	-	-	-	-	-	-	-	-	26.5
	2	870	15841	2.06	14547	2.07	12937	2.06	10715	2.06	6852	2.13	-	-	-	-	-	-	-	-	-	-	27.3
34	3	870	16490	2.69	15061	2.74	13119	2.68	10927	2.61	8969	2.63	7372	2.73	5869	2.88	4043	3.07	-	-	-	-	28.8
	1	1140	10413	0.74	9234	0.82	7985	0.86	6545	0.87	4698	0.86	-	-	-	-	-	-	-	-	-	-	32.7
	1-1/2	1140	14196	1.39	13087	1.43	11790	1.46	10274	1.47	8435	1.47	6136	1.46	-	-	-	-	-	-	-	-	33.3
	2	1140	14856	1.77	14165	1.85	13442	1.92	12645	1.97	11750	2.01	10715	2.03	9478	2.03	7945	2.02	6075	2.03	-	-	33.6
	3	1140	15181	2.22	14484	2.37	13748	2.48	12950	2.57	12066	2.62	11063	2.64	9883	2.64	8436	2.64	6638	2.70	-	-	34.3
	3	1725	13831	1.84	13014	1.94	12246	2.01	11485	2.05	10711	2.07	9902	2.07	9034	2.07	8075	2.07	6977	2.07	4126	2.09	40.3
	5	1725	19832	4.24	19126	4.39	18403	4.51	17643	4.60	16841	4.65	15990	4.68	15083	4.69	14107	4.69	13051	4.67	-	-	44.8
	7-1/2	1725	24586	7.19	23906	7.29	23203	7.37	22453	7.43	21646	7.47	20772	7.49	19816	7.50	18757	7.49	17569	7.48	-	-	47.3
	10	1725	26099	9.10	25381	9.23	24610	9.32	23767	9.40	22841	9.44	21817	9.45	20681	9.44	-	-	-	-	-	-	44.8
	1/2	870	8578	0.47	6596	0.52	4355	0.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39.8
3/4	870	9399	0.66	8359	0.74	7175	0.81	5765	0.84	3980	0.83	-	-	-	-	-	-	-	-	-	-	40	
1	870	11945	0.84	10776	0.94	9390	1.01	7534	1.04	4389	1.02	-	-	-	-	-	-	-	-	-	-	38.9	
2	870	16753	1.89	15540	1.98	14138	2.03	12227	2.04	-	-	-	-	-	-	-	-	-	-	-	-	38.1	
3	870	19639	2.83	18490	2.88	17070	2.90	14932	2.88	-	-	-	-	-	-	-	-	-	-	-	-	39.6	
36	1	1140	9445	0.77	8474	0.82	7508	0.86	6481	0.89	5342	0.91	4035	0.92	2562	0.89	-	-	-	-	-	-	47.9
	1-1/2	1140	13412	1.17	12520	1.28	11580	1.38	10553	1.47	9377	1.53	7944	1.55	6052	1.52	-	-	-	-	-	-	44
	2	1140	15018	1.60	14516	1.67	13606	1.79	12711	1.88	11665	1.95	10318	1.99	-	-	-	-	-	-	-	-	44.2
	3	1140	18785	2.45	17883	2.60	16941	2.73	15920	2.82	14763	2.89	13350	2.92	11297	2.89	-	-	-	-	-	-	43.8
	5	1140	22409	4.11	21447	4.23	20468	4.33	19393	4.40	18162	4.45	16640	4.46	14319	4.47	-	-	-	-	-	-	45.7
	5	1725	21703	4.01	20981	4.21	20224	4.37	19430	4.51	18590	4.62	17690	4.70	16708	4.75	15616	4.77	14362	4.76	-	-	77.8
	7-1/2	1725	26626	6.39	25825	6.55	25042	6.67	24240	6.77	23409	6.84	22536	6.89	21603	6.93	20582	6.94	19429	6.94	16241	6.90	83.8
	10	1725	26845	7.70	26396	7.93	25953	8.14	25496	8.34	25020	8.53	24526	8.71	24008	8.89	23465	9.05	22891	9.20	21629	9.46	85.8

Speed (RPM) shown is nominal. Performance certified is for installation type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance ratings only.

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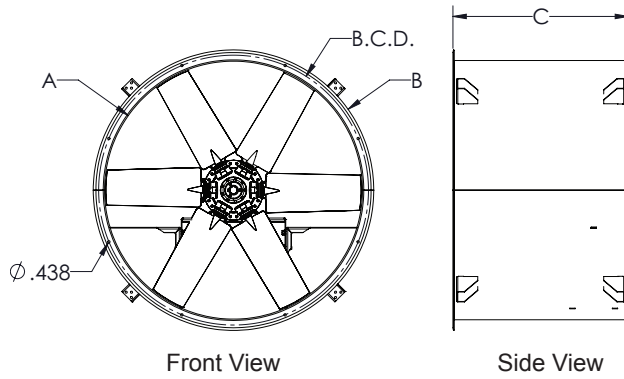




MODEL TDD
DIRECT DRIVE TUBEAXIAL DUCT FAN



Sizes 42 and 48



Max. Motor Frame: 256T
Housing Gauge: 10
Approximate Weight: 42" = 738 lbs.
 48" = 834 lbs.
Flange Holes: 8
Diameter Flange Holes: 7/16"
Finish: Epoxy Coated Galvanized

Size	A	B	C*	B.C.D
42	42-1/2	46-3/4	30	44-1/4
48	48-1/2	52-3/4	33	50-3/4

A: ID B: OD C: Length (*motor may extend past unit)

TDD	HP	RPM	Static Pressure (Inches W.G.)																		Sones @ 5 ft			
			0		1/8		1/4		3/8		1/2		5/8		3/4		7/8		1			1 1/4		
			CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP		CFM	BHP	
42	1	870	14652	0.93	12915	1.05	10997	1.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51.6	
	1-1/2	870	16470	1.17	14621	1.31	12432	1.38	9164	1.39	-	-	-	-	-	-	-	-	-	-	-	-	47.9	
	2	870	19253	1.66	17332	1.83	15338	1.91	12632	1.97	-	-	-	-	-	-	-	-	-	-	-	-	45.4	
	3	870	22840	2.71	21167	2.89	18824	2.99	13541	2.96	-	-	-	-	-	-	-	-	-	-	-	-	48.6	
	5	870	27637	4.71	25601	4.76	23023	4.71	19505	4.60	15100	4.59	-	-	-	-	-	-	-	-	-	-	48.9	
	1-1/2	1140	15012	1.03	13504	1.23	11708	1.35	9523	1.41	6850	1.41	3882	1.41	-	-	-	-	-	-	-	-	-	46.5
	2	1140	17873	1.45	16404	1.64	14722	1.79	12733	1.87	10250	1.89	7042	1.91	3561	2.06	-	-	-	-	-	-	-	48.7
	3	1140	21701	2.63	20499	2.54	19263	2.66	18132	2.77	16928	2.86	15282	2.93	-	-	-	-	-	-	-	-	-	53.6
	5	1140	25764	3.76	24356	3.98	22923	4.13	21351	4.23	19515	4.31	17086	4.38	11051	4.76	-	-	-	-	-	-	-	50.3
	7-1/2	1140	32442	7.52	31157	7.57	29801	7.59	28338	7.59	26736	7.56	24942	7.51	-	-	-	-	-	-	-	-	-	51.9
48	10	1140	32213	7.59	31345	7.91	30739	8.10	30100	8.30	29295	8.48	28440	8.65	27539	8.82	26580	9.00	25560	9.18	23077	9.48	52.3	
	2	870	21449	1.55	19471	1.77	17326	1.94	14903	2.05	12076	2.12	8730	2.13	-	-	-	-	-	-	-	-	-	92.4
	3	870	26284	2.60	24379	2.81	22374	2.96	20141	3.09	17450	3.15	13739	3.18	-	-	-	-	-	-	-	-	-	55.4
	5	870	29278	3.69	28122	3.85	26901	4.07	25553	4.43	24047	4.74	22334	5.02	20353	5.27	18038	5.39	-	-	-	-	-	53.4
	7-1/2	1140	32255	4.95	31336	5.36	30430	5.75	29488	6.14	28507	6.52	27481	6.89	26406	7.25	25275	7.59	24582	7.91	-	-	-	92.4
	10	1140	39194	8.18	38319	8.39	37444	8.63	36569	9.06	35616	9.48	34615	9.88	33556	10.26	32430	10.60	31224	10.98	-	-	-	95

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MODEL DA

COMPACT DUCT AXIAL FAN



MODEL FEATURES

- Exhaust air up to 4,750 CFM with static pressure capabilities to .35" w.g.
- Constructed from die cast aluminum and finished in a black polyester paint coating
- All models include asynchronous induction capacitor run and start motors
- Low profile design
- Class F motor insulation

MODEL OVERVIEW

The S&P COMPACT DUCT AXIAL FANS feature, as the name suggests, an extremely compact design created by the combination of an external rotor motor matched with a direct drive wrap around an impeller hub. This very low profile design optimizes airflow performance while minimizing noise generation.

The S&P COMPACT DUCT AXIAL FANS are designed to be installed in-line with inducted or partially ducted ventilation systems for exhaust or supply air applications.

All S&P COMPACT DUCT AXIAL FANS feature cylindrical flanged casings manufactured from a high grade rolled galvanized steel plate. The motor and impeller assembly are firmly supported within the casing by a strong steel support frame. All models are supplied with a prewired junction box located on the outside of the fan casing for easy wiring access. This terminal box protects all wiring connections against the ingress of dust and moisture. The entire assembly is protected by a two stage primer and a tough corrosion and UV resistant polyester paint finish.

5 year fan housing and motor warranty



CONSTRUCTION/SPECIFICATION CHECKLIST

Motor

- All models include asynchronous induction capacitor run and start motors.
- Constructed from die cast aluminum and finished in a black polyester paint coating.
- 100% Speed controllable.
- Totally enclosed IP/65 protection.
- Class F insulation.
- Suitable working temperatures -40°C (-40°F) up to 60°C (140°F).
- All models include a Safety Auto Reset Thermal Overload Protection.

Terminal Box

- Manufactured from high impact grade aluminum.
- IP65 protected.

Wheel / Impeller

- Manufactured from glass filled UV resistant polyamide.
- Special Order: Die cast aluminum. Please inquire.
- Corrosion and weather resistant.

ACCESSORIES



SC 15
Variable speed
control



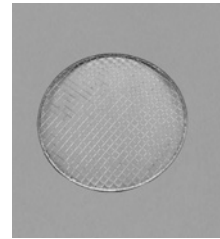
BRIDA
Round duct
matching flange



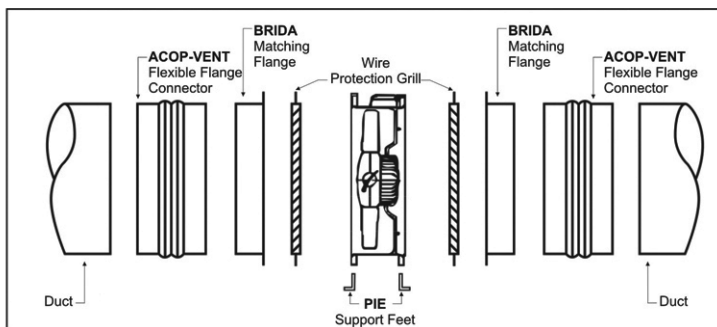
ACOP
Round flexible
flanged
connectors



PIE
Support Feet



DEF-T
Inlet/outlet wire
protection guard

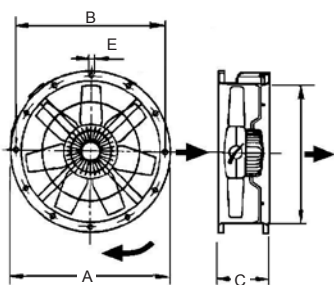




MODEL DA
COMPACT DUCT AXIAL FAN



DIMENSIONS IN INCHES/MM



Model	A	B	C	D	E	Weight (lbs)
DA 12	15 ^{3/16} 386	14 356	6 ^{11/16} 170	12 ^{7/16} 316	3/8 10	22
DA 16	19 ^{3/16} 487	17 ^{3/4} 451	6 ^{11/16} 170	15 ^{3/4} 400	1/2 13	31
DA 18	21 ^{1/8} 537	19 ^{11/16} 500	7 ^{1/8} 181	17 ^{3/4} 451	1/2 13	40
DA 20	23 ^{7/16} 595	22 ^{1/16} 560	7 ^{1/8} 181	19 ^{11/16} 500	1/2 13	49

AIR & SOUND PERFORMANCE

Model	*Technical Specification	Input Watts	Peak BHP	RPM	CFM v Static Pressure (SP) Ins. WG								Sones
					0	0.05	0.1	0.15	0.2	0.25	0.3	0.35	
DA 12	TCGB/4-12/G-B	132	-	1500	1216	1130	940	570	-	-	-	-	11.6
DA 16	TCGB/4-16/G-B	320	0.28	1500	2540	2440	2330	2200	2030	1760	-	-	17.6
DA 18	TCGB/4-18/G-B	540	0.48	1465	3620	3510	3370	3260	3140	3000	2800	-	24
DA 20	TCGB/4-20/G-B	770	0.67	1500	4750	4630	4500	4380	4240	4105	3930	3660	32

***Technical Specifications: Example**

TCGB/ 4-16/ G-A
 ↓ ↓ ↓ ↓ ↓ ↓
 1 2 3 4 5 6 7

- 1- TC: COMPACT DUCT AXIAL FAN reference.
- 2- Plastic adjustable impeller (supplied as standard).
- G: Aluminum adjustable impeller (please inquire).
- B: Single Phase Motor. 120 V 60 Hz.
- 3-B: Three Phase Motor. 220/460 V 60 Hz (please inquire).
- T: Speed. Number of poles.
- 5-16: Nominal blade diameter in inches.
- 6-A: Air direction.
 Form A = air over motor-impeller.
 Form B = air over-impeller motor.



Soler & Palau certifies that the DUCT AXIAL FANS shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA publication 211 and AMCA publication 311 and comply with the requirements to the AMCA Certified Ratings Program.

Performance is shown for Soler & Palau DUCT AXIAL FANS. Speed (rpm) shown is nominal. Performance is based on actual speed of the test. Performance ratings include the effects of finger guards in the airstream. The sound ratings are loudness values in fan sones at 5ft (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values are shown are for installation type A: free inlet, free outlet.



COMPETITOR CROSS REFERENCE

S&P	Description	Coolair	Cook	Twin City	Penn	Acme	Carnes	Greenheck	Fantech	Canarm/Delhi
DB	R/T Down Blast Exhaust Centrif. BD	CRBCA	ACEB	BCDR	DXB/KB/JB/MB	PV/PNN	VEBK	GB	BDD/ABE	BDCR/CBR
LPD & RED	R/T Down Blast Exhaust Centrif. DD	CRDA	ACED	DCRD	DX	PRN	VEDK	G	REC/DDD	DR-H/300/CDR
TXB	R/T Up Blast Exhaust Centrif. BD	UBCA	ACRUB	BCRU	FXB/FMX	PNU/PU	VUBK	CUBE	BDU	CDU/CBU
TXB UL762	R/T Up Blast Exhaust Centrif. BD	CUBA	VCR	BCRUR	FXBFT/FMBFT	PNU-RG	VRBK	CUBE	BDU	BDU/CBUHP
TXD	R/T Up Blast Exhaust Centrif. DD	UDCA	ACRUD	DCRU/ R	FX/FMX	PDU	VUDK	CUE	DDU	DU-H / CDU
CWD	Sidewall Exhaust Centrif. DD	CWDA	ACWD	TCWX	WX/WA/WB	PW	VWVK	GW	--	--
V-FAN	Ceiling fans less .3 sones DD	--	--	--	--	--	--	--	--	--
FF/FFC	Ceiling Cabinet fans DD	CF/CFL	GC-GN	T/TL	ZEPHER-Z	VVQ/VQL	V added	SP/CSP	CEV/IEV	--
KSF	R/T Filtered fresh air supply fan DD	CFS/SIS	KSPB	BCFS	MU/FS	AFSI	V added	KSU/RSF	FSU	SIS / SBAR
ARE / ARS	R/T Dome Exhaust/Supply Axial. DD	SASD/SAED	AQD	--	DAE	LQ	LEDA	AIS	ADE /ADS	--
S	Direct drive shutter fan DD	added	--	--	P	--	--	--	SHE	SD/ AX/ S
GED / GSD	Sidewall Exhaust/Supply Prop. DD	CDC	APD	TCPE	P	FQ/FN	L added	SE1/SS1	VLD	P
LCE / LCS	Sidewall Exhaust/Supply Prop. BD	CAB/CBL	added	WPMD	BLL/BFM/BBK	DC/DCK	L added	SBE/S 1&2	SDE	DDS / ADD
L2E / L2S	HD Sidewall Exhaust/Supply Prop. BD	CAL	XL/XM/AWB/HWB	TCWPX *	BFM/BFH/BCH	DCK/DCH	LABA	SBE/SBC	MDE	XB / HV
SQB	Square Inline Duct Fan Centrif. BD	SQBA	SQNB -B/ SQI-B	BSI	SXB	XB	VIBK	BSQ	--	DSQ-B
SQD	Square Inline Duct Fan Centrif. DD	SQDA	SQND -D/ SQI-D	DSI	SX	XD	VIDK	SQ	FSD	DSQ-D
UBS	R/T Upblast Exhaust Propeller DB	J/JT	LXU/LEU/LSU	LPRVX	HS/HZ	UBG	LUBA	PUB/RBU	BLT	RB
HREB-C	R/T Hooded Exhaust Propeller BD	PEB	HXE/HEE	LPHD/B	AF/AC	EC/ECH	LTBA	RBE/RBCE	RHE	PRE
UBSRD-HT	R/T Upblast Exh. H. Temp Prop. BD	HS	SUBH	UBT/TUB	HX	UBH-UF	LQBA	TAUB-HT	--	RTA
HRSB	R/T Hooded Supply Propeller BD	PSB	HXS/HES	HVWP	AF/AC	EC-S/ ECH-S	LGBA	RBS/RBCS	RHS	PRI
TDB / DDT	Tube Axial fans BD/DD	TBC/TEBC	EDB/EDD	TB/TD	BTA/TA	HA / HDD	LIBA/LIDA	TAB/TAD		BTA/DDA
CM	Vent Sets/ BI / cUL705 & 762 & 793 BD	VSBC	CPV/S	BCV/J	D/RPK	QBR	--	SWB	--	BI/BI-RM
RCXII	Non-powered Roof Vent - Rnd Dome	ARVE	PR	GRV	DR	LQV	GSAA	GRS	--	--
CSF	R/T Centrifugal Filtered Supply BD	CFS	ASP	FSR	MU	--	VHBB/VSBB	RSF	--	700
CVTT	Forward curve air handler 7' to 30" BD	--	--	DBS	--	--	VGBA		--	9200
CFD	Forward curve air handler 7' to 15" DD/BD	--	DB	DBS	ZC	--	VDBA		--	200
CBS	Single inlet blower BD	--	--	DBS	--	--	--		--	400
CBM	Direct drive dual inlet blower DD	--	--	--	--	--	--		BLR	GDD
CBP	Belt drive dual inlet blower BD	--	--	TFC	--	--	--		--	G
CBP-RC	Belt drive dual inlet Framed blower BD	--	--	VFC	--	--	--		--	800
CBP-RE	Belt drive dual inlet framed HD blower	--	--	TFC-2	--	--	--		--	900
FCB	Belt drive Forward curve vent set	--	--	FCV	--	--	VFB	SFB	--	600
TD	2 speed inline mixed flow fan DD	--	--	--	--	--	--		--	-
PV	Backward inclined inline fan DD	--	--	--	--	--	--		FG	-
SWF	Outside wall mount exhaust DD	--	--	--	--	--	--		RVF	-
PW	Radial blade pressure blower DD	--	--	--	--	--	--	FPB	--	PW
KE	Radial blade pressure blower DD	--	CPFD	JRW	--	--	--	IPA	--	KE
D	Forward curve direct drive blower DD	--	--	DDF	--	--	--	SFD		D

R/T = Roof Top, BD = Belt Drive , DD = Direct Drive