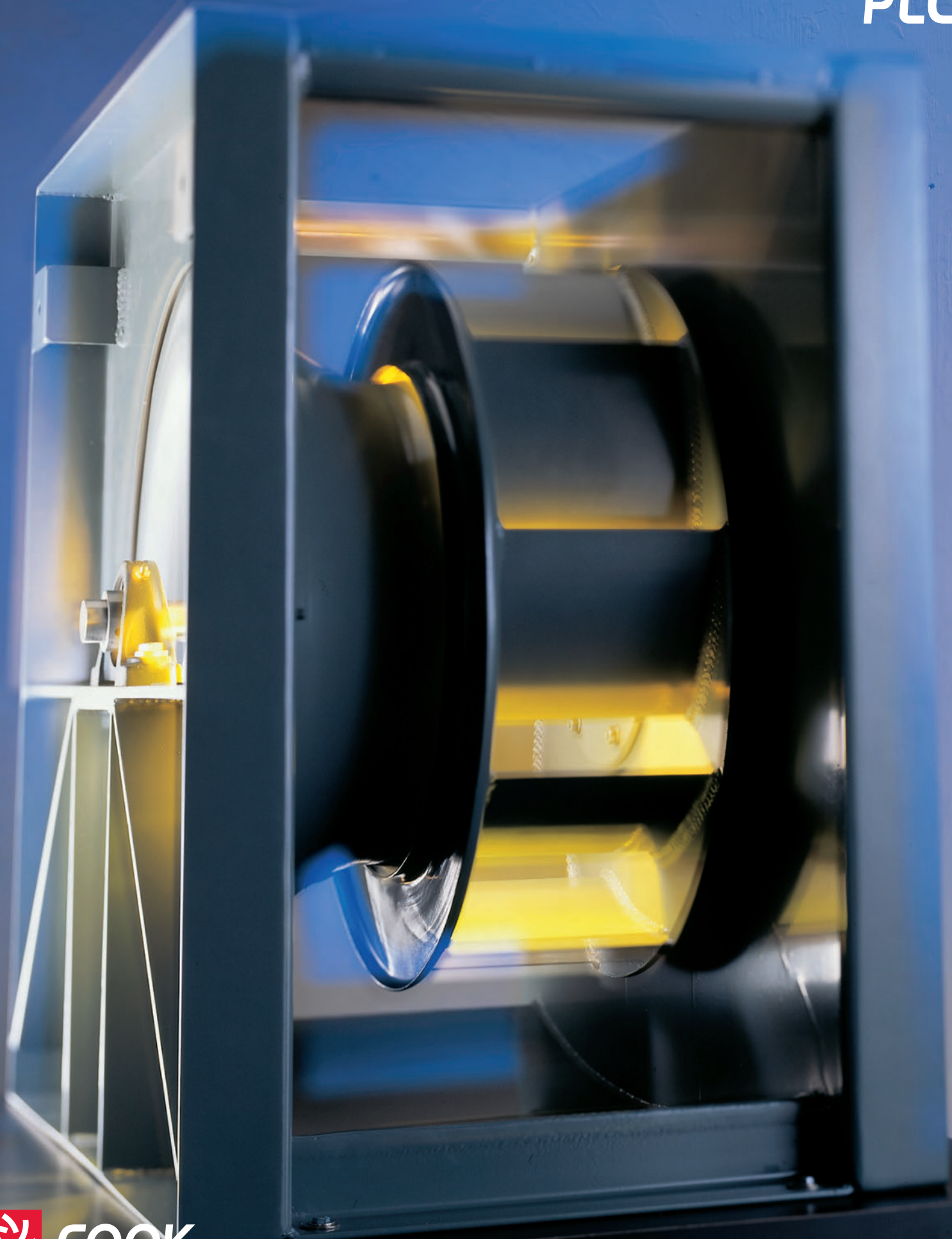


PLC



PLC

Centrifugal Plenum Fan



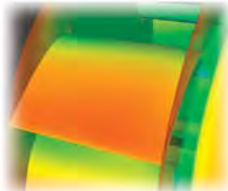
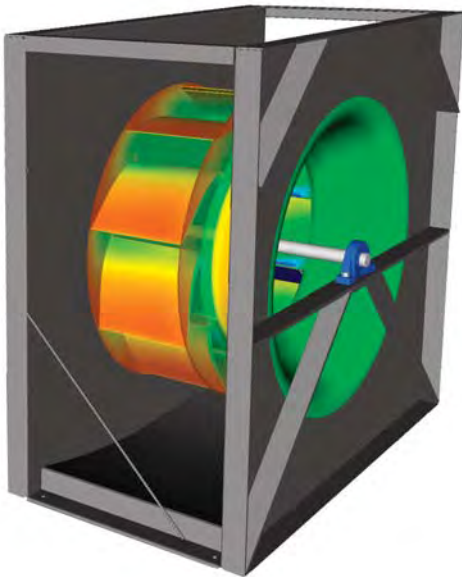
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INTRODUCTION

Loren Cook Company's Centrifugal Plenum Fan is an unshoused fan designed for operation in plenum installations such as air handling units. The fan pressurizes the plenum in which it operates so ductwork can be connected directly to the plenum. The fan's design saves space by eliminating the fan housing and ductwork transition to the fan discharge. The PLC is available in aluminum and steel construction with wheel sizes of 12 to 73 inches diameter and in Class I, II, and III.



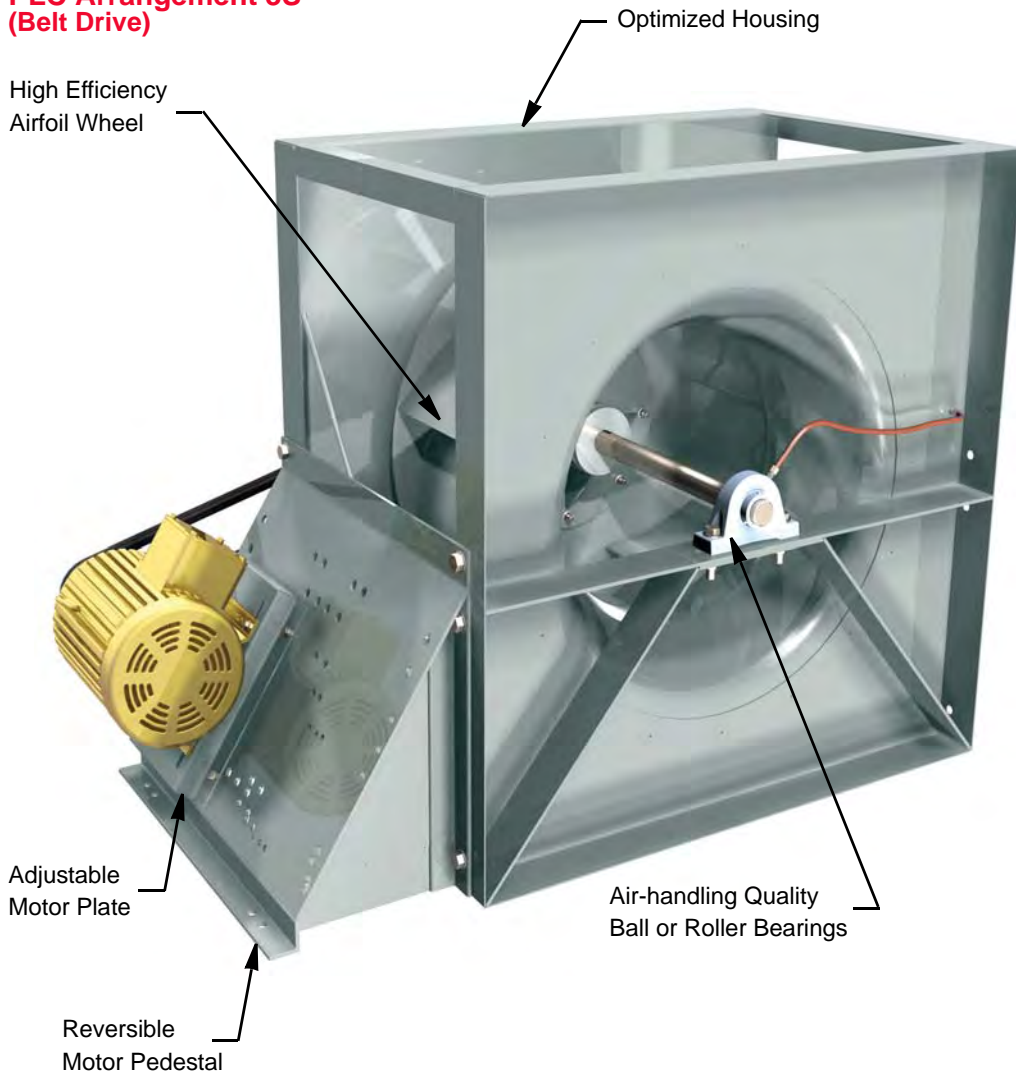
- PLC is licensed to bear AMCA Certified Ratings Seal for Sound and Air Performance.
- Performance is licensed for both inlet and outlet sound.
- UL/cUL 705 listing is standard on all PLC models.
- The PLC has a true airfoil wheel optimized for maximum efficiency. All blades are continuously welded to the wheel shroud and backplate.
- Optimized housing for weight savings while maintaining structural integrity.
- Extended lube line standard on inlet side bearing to allow for lubrication from drive side.
- Top braces designed to provide lifting points to aid in installation.



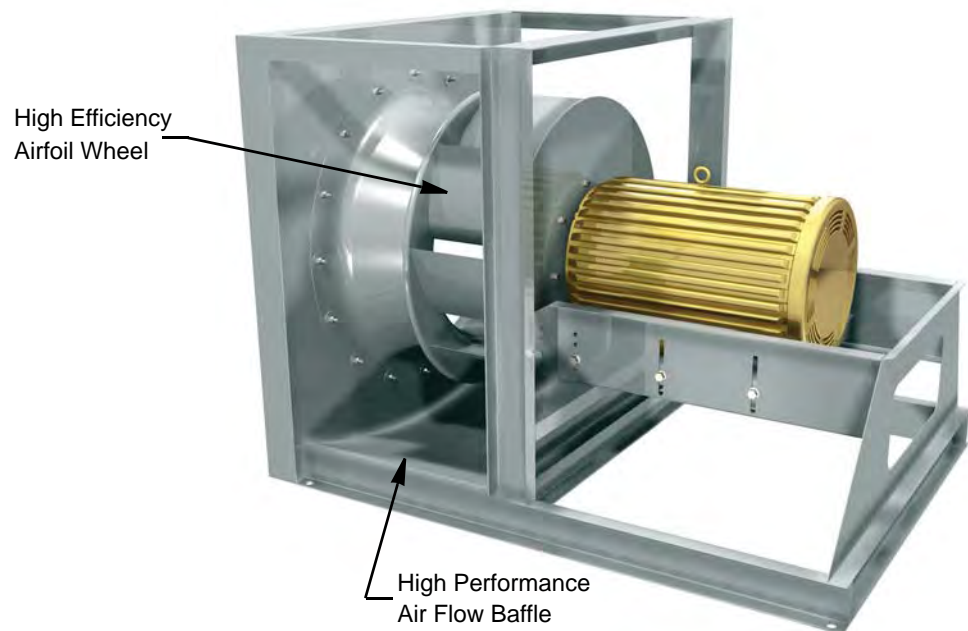
The PLC was designed using the latest Computational Fluid Dynamics (CFD) and Finite Element Analysis (FEA) software. This allowed our engineers to optimize the inlet, wheel and housing through design iterations. Once the design was optimized, physical prototypes verified the performance and durability of the design.

The result is the most efficient plenum fan in the industry.

PLC Arrangement 3S (Belt Drive)



PLC Arrangement 4 (Direct Drive)



Centrifugal Plenum Fan



Loren Cook Company certifies that the PLC shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Type PLC is furnished standard with UL 705 listing (cUL 705) when furnished with factory supplied motor.

Description - Fan shall be a single width, single inlet backward inclined centrifugal airfoil, belt or direct driven plenum blower as specified.

Certifications - Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA Certified Ratings Seal for Sound and Air Performance. Performance shall be certified for both inlet and outlet sound.

Construction - The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The inlet panel shall be constructed from heavy gauge reinforced steel with an integral rectangular formed duct connection. High performance airflow baffle shall be standard to reduce under unit turbulence and improve efficiency. Integral lifting points shall be standard. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM, static pressure and maximum fan RPM. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Coating - Steel fan components shall be **LORENIZED™** with an electrostatically applied, baked polyester powder coating. Each component shall be subject to a five stage environmentally friendly wash system, followed by a minimum 2 mil thick baked powder finish. Paint must exceed 1,000 hour salt spray under ASTM B117 test method.

Wheel - Wheel shall be steel, non-overloading, centrifugal backward inclined, high efficiency, airfoil type. Blades on all sizes shall be continuously welded to the backplate and inlet shroud. All sizes shall be securely keyed to the fan shaft. Wheel shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Motor - Motor shall be Nema design B with class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

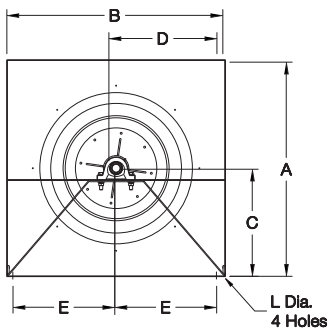
Blower Shaft - Blower shaft shall be AISI C-1045 hot rolled and accurately turned, ground and polished. Shafting shall be sized for a critical speed of at least 125% of maximum RPM.

Bearings - Bearings shall be designed and tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball or roller type in a cast iron pillow block housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

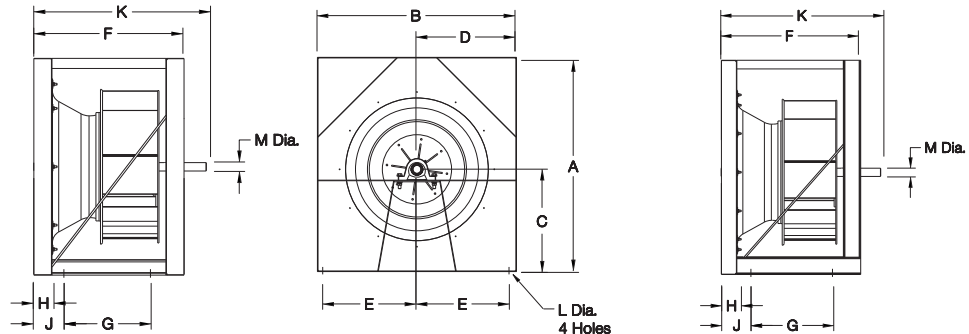
Belts and Drives - Belts shall be oil and heat resistant, non-static type. Drives shall be precision machined cast iron type, keyed and securely attached to the wheel and motor shafts. Drives shall be sized for 150% of the installed motor horsepower. The variable pitch motor drive must be factory set to the specified fan RPM.

Product - Fan shall be model PLC as manufactured by Loren Cook Company of Springfield, Missouri.

Size 120-300



Size 330-730



PLC Dimension Data

Size	A	B	C	D	E			F		
					Class I	Class II	Class III	Class I	Class II	Class III
120	17-1/4	17-1/4	8-5/8	8-5/8	7-15/16	7-15/16	-	13-1/16	13-1/16	-
135	19-1/2	19-1/2	9-3/4	9-3/4	9-1/16	9-1/16	-	14-5/8	14-5/8	-
150	21-1/2	21-1/2	10-3/4	10-3/4	9-13/16	9-13/16	-	15-9/16	15-9/16	-
165	23-3/4	23-3/4	11-7/8	11-7/8	10-15/16	10-15/16	-	16-3/4	16-3/4	-
180	25-3/4	25-3/4	12-7/8	12-7/8	11-15/16	11-15/16	11-9/16	19-7/8	19-7/8	20-5/16
195	28	28	14	14	13-1/16	13-1/16	12-11/16	21	21	22-1/16
210	30	30	15	15	14-1/8	14-1/8	13-11/16	22-1/16	22-1/16	23-1/8
225	32-1/4	32-1/4	16-1/8	16-1/8	15-1/4	15-5/16	14-13/16	23-1/16	23-1/16	24-1/8
245	35	35	17-1/2	17-1/2	16-3/8	16-7/16	16-3/16	24-1/2	24-1/2	25-9/16
270	38-3/4	38-3/4	19-3/8	19-3/8	18-1/4	18-5/16	18-1/16	27-7/16	27-7/16	29
300	43	43	21-1/2	21-1/2	20-3/16	20-3/16	20-3/16	29-1/2	29-1/2	31-1/16
330	49-1/2	46	23-5/8	23	22-5/16	22-1/4	22-1/4	32-3/16	34-3/16	34-3/16
365	53-1/2	49	26-1/8	24-1/2	23-13/16	23-3/4	23-3/4	34-9/16	36-5/8	36-5/8
402	60	54	28-3/4	27	26-1/4	26-1/8	26-1/8	39-7/16	40-15/16	41
445	64	58-1/2	31-7/8	29-1/4	28-1/2	28-3/8	28-3/8	43	45	45
490	70	63	35	31-1/2	30-5/8	30-1/2	30-1/2	47-1/4	50-11/16	50-11/16
540	75	69	38-5/8	34-1/2	33-5/8	33-1/2	33-1/2	50-7/8	54-3/8	54-3/8
600	82	75	42-7/8	37-1/2	36-5/8	36-1/2	36-1/2	56-1/4	59-1/4	59-1/4
660	90	82	47-1/4	41	40	39-11/16	39-11/16	63-11/16	64-11/16	64-11/16
730	92	92	52-1/4	46	45	44-11/16	44-11/16	69-11/16	69-3/4	69-3/4

All dimensions in inches.

PLC Dimension Data Continued

Size	G			H			J		
	Class I	Class II	Class III	Class I	Class II	Class III	Class I	Class II	Class III
120	7-15/16	7-15/16	-	1-13/16	1-13/16	-	2-13/16	2-13/16	-
135	9	9	-	1-13/16	1-13/16	-	2-13/16	2-13/16	-
150	9-7/16	9-7/16	-	2-1/16	2-1/16	-	3-1/16	3-1/16	-
165	10-5/8	10-5/8	-	2-1/16	2-1/16	-	3-1/16	3-1/16	-
180	11-3/4	11-3/4	10-3/4	3-1/16	3-1/16	3-1/16	4-1/16	4-1/16	4-9/16
195	12-7/8	12-7/8	11-7/8	3-1/16	3-1/16	3-1/16	4-1/16	4-1/16	4-9/16
210	13-15/16	13-15/16	12-15/16	3-1/16	3-1/16	3-1/16	4-1/16	4-1/16	4-9/16
225	14-15/16	14-15/16	13-15/16	3-1/16	3-1/16	3-1/16	4-1/16	4-1/16	4-9/16
245	15-7/8	15-7/8	15-3/8	3-9/16	3-9/16	3-1/16	4-5/16	4-5/16	4-9/16
270	17-13/16	17-13/16	17-5/16	3-9/16	3-9/16	3-9/16	4-13/16	4-13/16	5-1/16
300	19-3/8	19-3/8	19-3/8	3-9/16	3-9/16	3-9/16	5-1/16	5-1/16	5-1/16
330	26-3/8	27-3/8	27-3/8	3-9/16	4-9/16	4-9/16	4-11/16	5-11/16	5-11/16
365	28-3/4	29-13/16	29-13/16	3-9/16	4-9/16	4-9/16	4-11/16	5-11/16	5-11/16
402	32-5/8	33-5/8	33-5/8	4-1/8	5-1/16	5-1/8	5-1/4	6-3/16	6-1/4
445	35-5/8	36-5/8	36-5/8	5-1/8	6-1/8	6-1/8	6-1/4	7-1/4	7-1/4
490	39-7/8	41-7/8	41-7/8	5-1/8	6-9/16	6-9/16	6-1/4	7-11/16	7-11/16
540	43-1/2	45-1/2	45-1/2	5-1/8	6-5/8	6-5/8	6-1/4	7-3/4	7-3/4
600	47-7/8	49-7/8	49-7/8	6-1/8	7-1/8	7-1/8	7-1/4	8-1/4	8-1/4
660	54-5/16	54-5/16	54-5/16	7-1/8	8-1/8	8-1/8	8-1/4	9-1/4	9-1/4
730	59-5/16	59-3/8	59-3/8	8-1/8	8-1/8	8-1/8	9-1/4	9-1/4	9-1/4

All dimensions in inches.

PLC Dimension Data Continued

Size	K			L			M			Shipping Weight in lbs.*		
	Class I	Class II	Class III	Class I	Class II	Class III	Class I	Class II	Class III	Class I	Class II	Class III
120	16-15/16	17-5/16	-	5/8	5/8	-	1-3/16	1-7/16	-	112	117	-
135	18-1/2	18-7/8	-	5/8	5/8	-	1-3/16	1-7/16	-	127	132	-
150	19-1/2	19-7/8	-	5/8	5/8	-	1-3/16	1-7/16	-	139	147	-
165	20-11/16	21-1/16	-	5/8	5/8	-	1-3/16	1-7/16	-	159	165	-
180	24-1/16	24-3/16	25-11/16	5/8	5/8	5/8	1-7/16	1-7/16	1-15/16	212	212	247
195	25-1/8	25-1/4	26-15/16	5/8	5/8	5/8	1-7/16	1-7/16	1-15/16	228	233	280
210	26-3/16	26-7/16	28	5/8	5/8	5/8	1-7/16	1-7/16	1-15/16	245	252	301
225	27-3/16	27-7/16	29-1/8	5/8	5/8	5/8	1-7/16	1-11/16	1-15/16	273	292	334
245	28-13/16	29-1/16	30-9/16	5/8	5/8	5/8	1-7/16	1-15/16	2-3/16	328	366	366
270	31-11/16	32-1/16	34-1/4	5/8	5/8	5/8	1-7/16	1-15/16	2-7/16	407	441	449
300	33-15/16	34-5/16	36-9/16	5/8	5/8	5/8	1-11/16	2-3/16	2-7/16	513	553	571
330	36-13/16	39-1/16	39-13/16	15/16	15/16	15/16	1-15/16	2-3/16	2-7/16	599	633	684
365	39-3/8	41-5/8	42-1/2	15/16	15/16	15/16	1-15/16	2-3/16	2-11/16	650	713	840
402	44-7/16	46-1/4	47-3/8	15/16	15/16	15/16	2-7/16	2-3/16	2-15/16	946	950	1118
445	48-1/8	50-3/4	51-7/8	15/16	15/16	15/16	2-7/16	2-7/16	3-7/16	1220	1258	1469
490	52-5/8	56-13/16	58-1/16	15/16	1-1/16	1-1/16	2-7/16	2-11/16	3-7/16	1489	1597	1754
540	56-1/2	61	62-3/8	1-1/16	1-1/16	1-1/16	2-7/16	2-15/16	3-7/16	1584	1776	1947
600	62-1/4	66-5/8	68-1/8	1-1/16	1-1/16	1-1/16	2-11/16	3-7/16	3-15/16	1982	2216	2452
660	70-5/16	72-13/16	74-7/16	1-1/16	1-1/16	1-1/16	2-15/16	3-7/16	3-15/16	2547	2824	3234
730	76-15/16	78-7/8	80-5/8	1-1/16	1-1/16	1-1/16	3-7/16	3-7/16	4-7/16	3094	3265	3886

All dimensions in inches. *Less motor, Arr. 3.

Airfoil Steel and Aluminum Wheel

PLC Size	Airfoil Steel Wheel PLC						Airfoil Aluminum Wheel PLC					
	Class I		Class II		Class III		Class I		Class II		Class III	
	Wheel Wt.	Wk ²	Wheel Wt.	Wk ²	Wheel Wt.	Wk ²	Wheel Wt.	Wk ²	Wheel Wt.	Wk ²	Wheel Wt.	Wk ²
120	17.1	2.6	18.6	2.9	-	-	8.2	0.9	8.6	1.0	-	-
135	19.9	3.6	21.8	4.1	-	-	9.7	1.4	10.2	1.6	-	-
150	23.1	5.1	27.5	6.7	-	-	11.4	2.1	11.4	2.3	-	-
165	29.2	7.8	32.0	9.3	-	-	12.4	3.0	15.7	4.0	-	-
180	47.6	11.7	50.9	13.8	51.9	13.3	19.5	4.5	23.5	5.8	28.8	7.9
195	52.3	15.4	56.1	18.1	57.3	17.6	21.6	6.0	26.2	7.8	32.5	10.8
210	57.4	20.0	61.8	23.3	63.1	23.0	23.8	7.9	29.3	10.4	36.6	14.3
225	62.9	25.7	67.9	29.9	76.7	33.3	30.4	12.4	32.2	13.6	38.4	17.5
245	70.7	35.3	85.6	45.6	86.6	45.9	34.7	17.2	39.2	20.5	43.9	24.5
270	82.4	58.6	99.7	66.3	101	66.7	43.5	27.4	46.1	30.1	58.3	40.5
300	136	92.7	146	104	153	114	61.6	42.5	64.8	46.6	71.5	56.8
330	168	151	182	174	181	169	66.5	59.9	71.5	67.2	84.1	83.5
365	195	223	210	256	249	309	77.5	88.5	90.2	107	104	132.3
402	276	416	301	480	318	488	106	155	137	203	142	218.8
445	410	648	436	743	464	773	155	242	189	312	204	353.6
490	469	933	509	1075	535	1116	177	348	220	451	237	511.9
540	555	1403	641	1716	676	1850	209	519	260	671	293	812.9
600	762	2550	836	2993	909	3199	300	977	333	1133	369	1314
660	1007	3939	1108	4587	1205	4887	401	1526	444	1755	484	2020
730	1184	5836	1307	6807	1429	7256	472	2262	525	2605	574	3000

Motor Selection Guidelines

For proper motor selection, consideration must be given to starting torque requirements along with operating BHP. The Airfoil Steel and Aluminum Wheel and Flatblade Steel and Aluminum Wheel tables (above) lists the WK² factor for different wheel sizes and types. In some cases it may be necessary to provide a larger horsepower motor, even though it may not be indicated by operating BHP, in order to bring the fan to speed. The following formula can be applied to determine the required motor starting torque.

$$WK_m^2 = WK_f^2 (FRPM / MRPM)^2 \quad (1.1)$$

WK_m² = the moment of inertia required at the motor shaft, Lb. - ft².

WK_f² = the moment of inertia of the fan, Lb. - ft².

FRPM = Fan RPM.

MRPM = Motor RPM.

Motor starting torque can vary greatly among motor manufacturers, the available WK_m² of the motor should be obtained from the motor manufacturer.

Standard Coatings

LORENIZED™ is an electrostatically applied, baked polyester powder coating. Each component shall be subject to a five stage environmentally friendly wash system, followed by a minimum 2 mil thick baked powder finish. Coating must exceed 1,000 hour salt spray under ASTM B117 test method.

Optional Coatings

Cook Epoxy Powder is an electrostatically applied, baked epoxy powder coating. Final coating thickness is 2.5 – 3.5 mils. For outdoor applications an optional UV resistant topcoat is available to prevent cosmetic chalking of the coating.

Cook Phenolic Epoxy Powder is an electrostatically applied, baked phenolic epoxy powder coating. Final coating thickness is 2 – 4 mils. For outdoor applications an optional UV resistant topcoat is required to prevent deterioration of the coating.

Air Dry Phenolic (Heresite VR-504) is a conventional spray applied phenolic resin coating. Final coating thickness is 4 – 6 mils. For outdoor applications an optional UV resistant topcoat (Heresite UC-5500) is required to prevent deterioration of the coating.

Refer to the corrosion resistance guide in the **Compute-A-Fan®** software for a listing of the coatings above and their resistance to a variety of chemicals. Additional special coatings are available.



Horizontal Arrangement 3

PLC Horizontal Arrangement 3 is available in sizes 120 to 730 and in Class I, II and III construction. This arrangement does not provide for motor mounting on the unit. The fan and motor should be mounted on a common isolation base in one of the four standard motor positions (W, X, Y, Z) as illustrated in the motor position chart shown below.



Horizontal Arrangement 3 with Side Mounted Motor

PLC Horizontal Arrangement 3 with side-mounted motor is available in sizes 120 to 730 and in Class I & II only. This arrangement can be used for applications where space limitations are critical. Due to uneven weight distribution, special care must be taken to ensure correct selection of isolators is made. Motor is located on right side as standard to provide clearance and access to motor wiring compartment. Left side motor arrangement is made easy by a universal motor base.



Horizontal Arrangement 3 with Top Mounted Motor

PLC Horizontal Arrangement 3 with top-mounted motor is available in sizes 270 to 730 and in Class I only. This arrangement can be used for applications where floor space limitations are critical. This arrangement also includes additional bracing for the adjustable motor mount as well as for a more centralized motor location.



Vertical Arrangement 3 with Side Mounted Motor

PLC Vertical Arrangement 3 is available in sizes 120 to 730 and in Class I and II construction only. This arrangement includes an adjustable motor mount and a structural angle flange around the inlet panel for mounting on isolators or a isolation base.



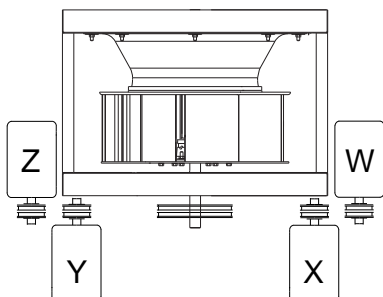
Arrangement 4 Direct Drive

PLC Arrangement 4 is available for applications requiring direct drive in Class I, II and III construction. This arrangement is desirable for applications where belt residue would contaminate the air stream. Wheel width modifications are available to achieve desired performance at direct drive motor speeds. See page 9 for performance ranges.



Arrangement 1

PLC Arrangement 1 is available in sizes 120 to 730 in Class I, II and III construction. This arrangement is best suited for applications where floor space is not critical and a ducted inlet connection is desired. Since this arrangement does not have a bearing in the inlet air stream, the inlet connection is much cleaner. Arrangement 1 does not provide for motor mounting on the unit. The fan and motor should be mounted on a separate common isolation base in one of the four standard motor positions (W, X, Y, Z) as illustrated in the motor position chart shown below.



Motor Position Chart

- The fan shaft drive end is normally opposite the inlet side. Where fan is to be driven from the inlet side, specify inlet side drives.
- Standard rotation is counterclockwise. If opposite rotation is required, specify clockwise rotation.
- When two fans are used in parallel in a common plenum, opposite rotation designs are recommended.
- Rotation is always determined from the drive side.

APPLICATION INFORMATION

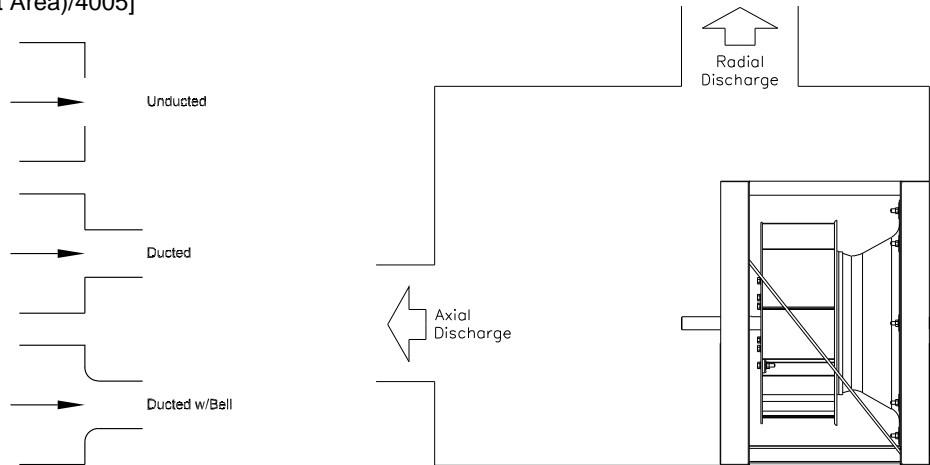
Duct Entrance Losses from Plenum Fan Cabinet

In order to compensate for the losses associated with the air entering the ductwork, additional resistance must be added to the external static pressure requirements for the fan. The corrections required vary based on type of entrance and the location of the entrance relative to the fan. The attached chart can be used to define the loss coefficient required for standard air applications. On fans with multiple discharges, choose the discharge with the highest loss coefficient to calculate the correction.

Formula:

$$\text{Duct Entrance Pressure Loss} = C_d \times [(\text{CFM}/\text{Duct Area})/4005]^2$$

Duct Entrance Loss Coefficients	C _d	
	Radial	Axial
Unducted	2.0	2.3
Ducted	1.5	1.5
Ducted w/bell	1.1	1.4



Wall Proximity Factors

In cases where walls are placed in close proximity to the plenum fan corrections are necessary. The corrections can be made using the following procedure:

Step 1: Calculate the %WOV "M" factor from chart below.

$$\%WOV = \text{CFM}/(\text{M} \times \text{Fan RPM})$$

Step 2: Determine Ci/Di wall proximity factor. Ci is the clearance between wheel tip and wall and Di is the wheel diameter, both in inches.

$$\text{Factor} = \text{Ci}/\text{Di}$$

Step 3: Use chart below to obtain correction factors for BHP and RPM and correct both using appropriate factor.

Unhoused Wall Proximity Factors

%WOV	RPM/ BHP	One Wall			Two Wall			Three Wall		
		Ci/Di			Ci/Di			Ci/Di		
		.25	.50	.75	.25	.50	.75	.25	.50	.75
100	RPM	0.99	0.99	0.99	0.99	0.99	0.99	1.06	1.01	1.00
	BHP	1.01	0.96	1.00	0.97	0.98	1.00	1.28	1.10	1.05
95	RPM	0.99	1.00	0.99	0.99	0.99	0.99	1.05	1.01	1.00
	BHP	1.01	0.94	1.00	0.94	0.97	1.01	1.20	1.09	1.04
90	RPM	0.99	1.00	0.99	0.99	0.99	0.99	1.04	1.01	1.01
	BHP	1.00	0.95	1.01	0.94	0.97	1.01	1.15	1.08	1.04
85	RPM	0.99	1.00	1.00	0.99	0.99	0.99	1.04	1.01	1.01
	BHP	1.00	0.97	1.03	0.98	1.00	1.01	1.12	1.08	1.06
80	RPM	1.00	1.00	1.00	0.99	1.00	0.99	1.04	1.01	1.01
	BHP	1.01	0.99	1.03	0.99	1.00	1.02	1.11	1.07	1.06
75	RPM	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.01	1.02
	BHP	1.01	1.00	1.03	0.99	1.00	1.02	1.11	1.06	1.06
70	RPM	1.00	1.01	1.00	1.00	1.00	1.00	1.04	1.01	1.01
	BHP	1.01	1.00	1.02	1.00	1.00	1.03	1.10	1.04	1.04
65	RPM	1.00	1.01	1.00	1.01	1.00	1.00	1.04	1.01	1.01
	BHP	1.02	1.00	1.02	1.01	1.00	1.03	1.09	1.03	1.04
60	RPM	1.00	1.00	1.00	1.00	1.00	1.00	1.04	1.01	1.01
	BHP	1.01	0.99	1.00	1.01	0.99	1.02	1.08	1.02	1.04
55	RPM	1.00	1.00	0.99	1.00	1.00	0.99	1.03	1.00	1.01
	BHP	1.00	0.99	1.00	1.01	0.99	1.01	1.05	1.01	1.02
50	RPM	1.00	1.00	0.99	1.00	1.00	0.99	1.03	1.00	1.01
	BHP	0.99	1.00	0.98	0.99	0.99	1.02	1.04	1.02	1.02
45	RPM	1.00	1.00	0.99	1.00	1.00	1.00	1.02	1.00	1.01
	BHP	0.99	1.00	0.97	0.98	0.99	1.02	1.04	1.02	1.02

PLC "M" Factors

Size	M
120	1.0
135	1.4
150	1.9
165	2.6
180	3.4
195	4.3
210	5.4
225	6.7
245	9.5
270	13
300	17
330	23
365	31
402	41
445	56
490	75
540	100
600	137
660	183
730	247

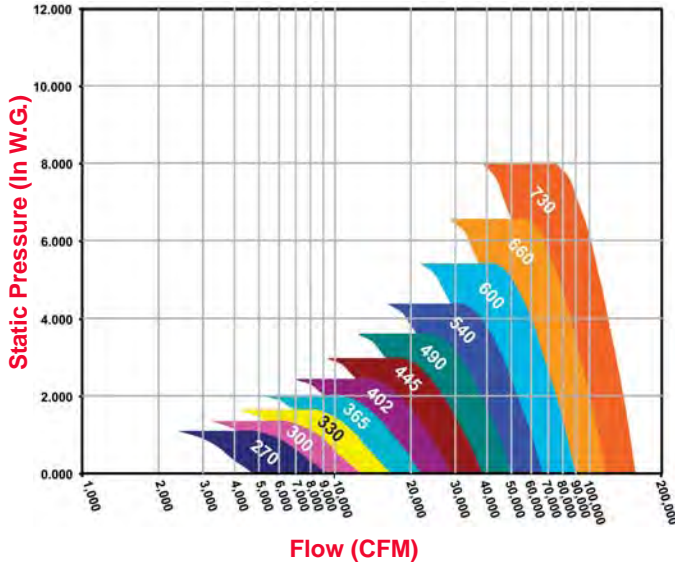
"Di" is the wheel diameter in inches. "Ci" is the clearance between wheel tip and wall in inches. For multiple wall conditions, there may be several values for "Ci." In this case calculate for all Ci values and use the highest resulting RPM and BHP factors. AMCA Certified Ratings Seal does not apply when these factors are used.

PLC is available in direct drive, Arrangement 4 configuration, for sizes 150 to 730. The charts below represent the recommended selections for each available motor speed. Each fan size is represented by a colored band that indicates the performance range for the given motor RPM.

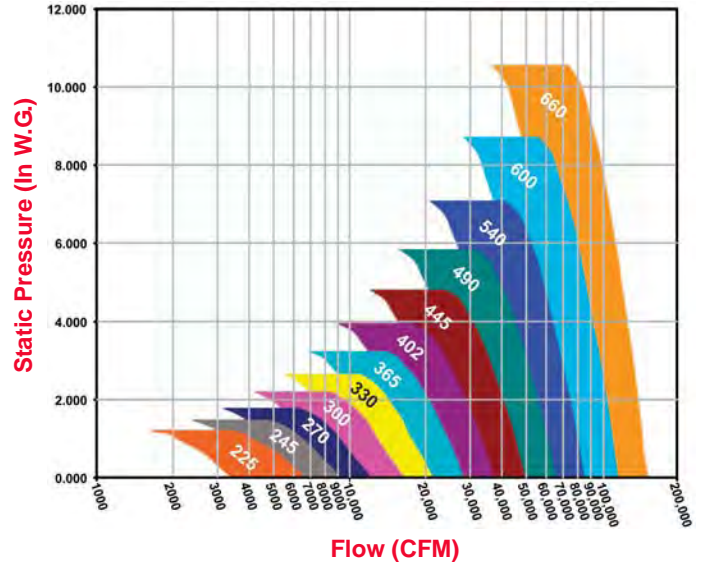
The performance ranges for each size are created through the use of partial width wheels. In order to vary the fan performance with a fixed RPM, the physical width of the wheel is adjusted and therefore change the amount of air the blower is capable of moving. The PLC direct drives are available from 50 to 100% air performance based on the full width performance at each motor RPM.

For exact performance, consult the **Compute-A-Fan®** selection software.

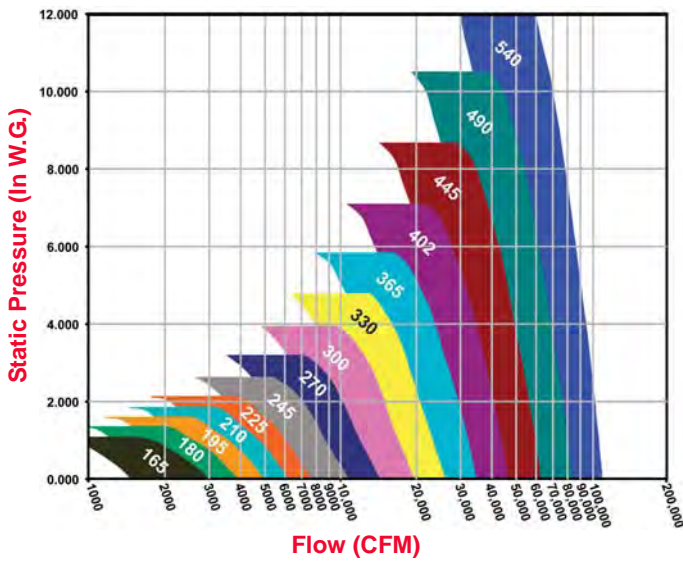
690 RPM



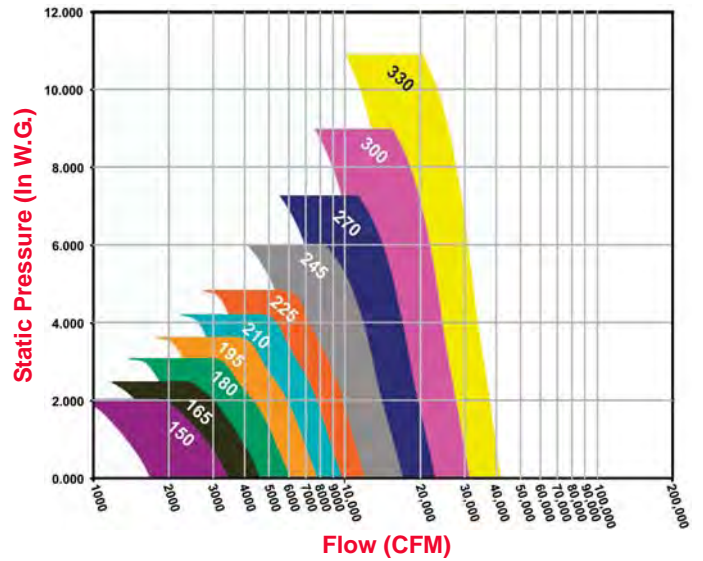
870 RPM



1170 RPM

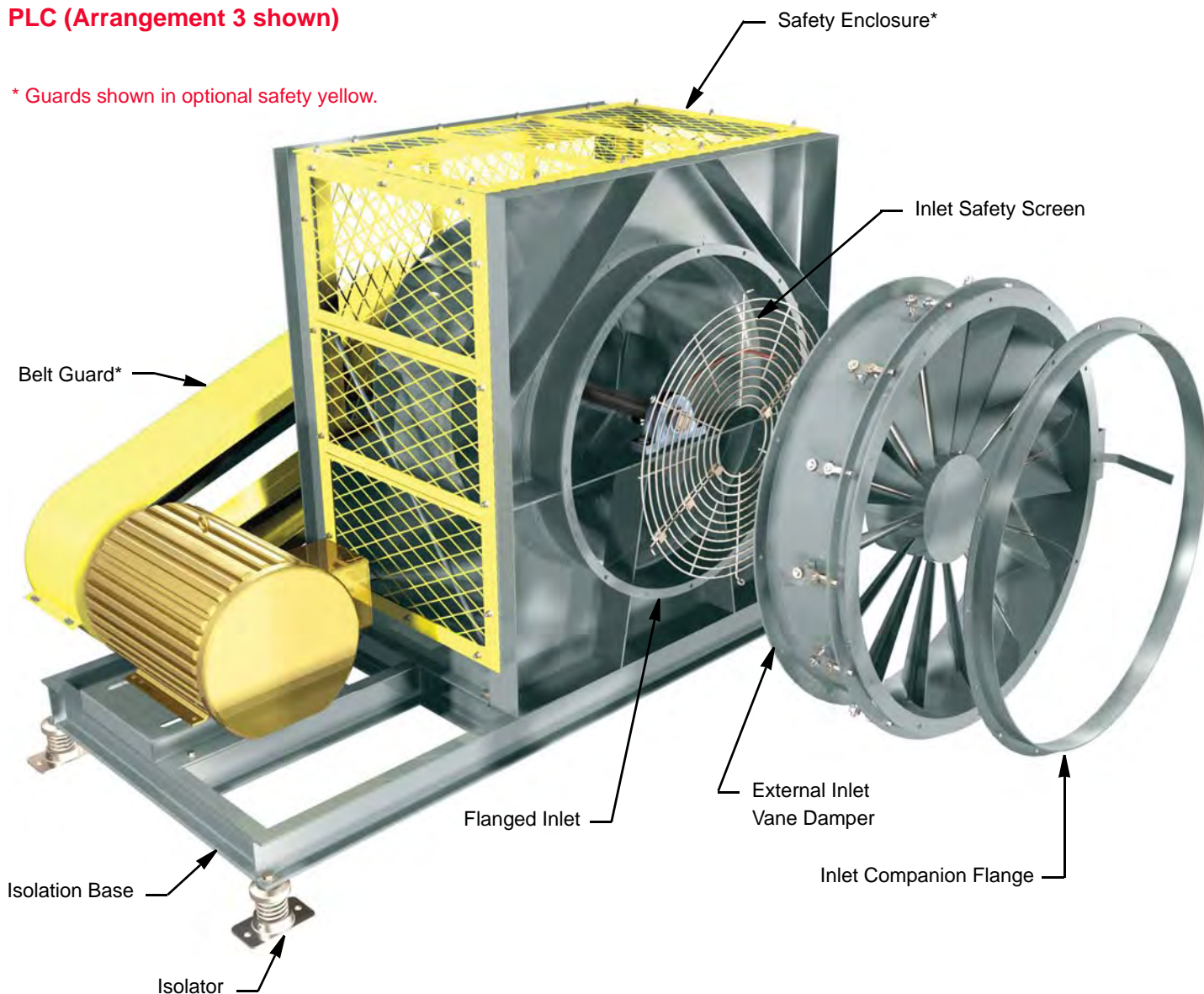


1770 RPM



PLC (Arrangement 3 shown)

* Guards shown in optional safety yellow.



Inlet Safety Screen

A removable safety screen is available to protect personnel and prevent debris from entering non-ducted inlets. Catalog performance is based on fans without inlet safety screens.

Isolation Base

Isolation bases are available for PLC Arrangement 3 fans. The isolation base is constructed of heavy duty structural channel. Specify one of the four standard motor positions as illustrated in the motor position chart (page 7), optional height saving brackets are available for use with spring isolators.

Safety Enclosure

The safety enclosure is an expanded metal screen with a heavy steel frame that completely encloses the fan wheel. Available in optional safety yellow. Catalog performance is based on fans without safety enclosures.

Inlet Companion Flange

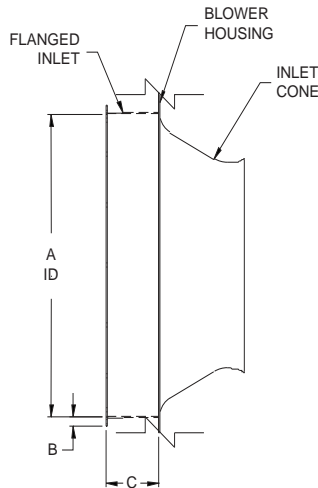
A companion flange is available for use with the optional flange inlet. A flange inlet must be ordered separately and is required when ordering a companion flange.

Belt Guard

A belt guard is available to enclose the belts and drives. Available in both solid construction or optional expanded metal. Available in optional safety yellow.

Flanged Inlet

Flanged inlet connections are available for applications requiring flanged inlet duct connections. Flanged inlets are available on all arrangements. Flanged inlet connection is required when using external inlet vane dampers on Arrangement 3 fans.

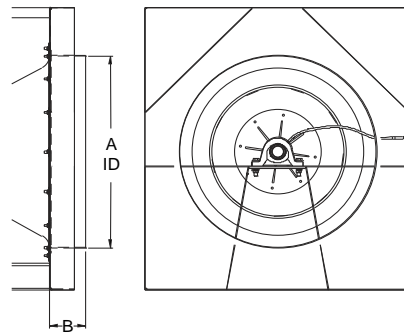


PLC Size	A	B	C
120	12-5/8	1-1/2	5-3/4
135	14-1/8	1-1/2	5-3/4
150	15-5/8	1-1/2	5-3/4
165	17	2	5-3/4
180	18-1/2	2	5-3/4
195	19-3/4	2	6-1/4
210	21-1/2	2	6-1/4
225	23	2	6-1/4
245	25	2	6-1/4
270	27-1/4	2	6-1/4
300	30-1/4	2	6-1/4
330	33-1/4	2	6-1/4
365	36-3/4	2	6-1/4
402	40-1/2	2	6-1/4
445	44-3/4	2	6-1/4
490	50-1/4	2	6-3/4
540	55-1/4	2	7-3/4
600	61-1/4	2	7-3/4
660	67-1/4	2	7-3/4
730	74-1/4	2	8-3/4

All dimensions in inches.

Inlet Collar

Inlet collars are available to provide for a round slip fit inlet connection. Inlet collars are standard on Arrangements 1 and 4 and optional (though not recommended) on Arrangement 3.



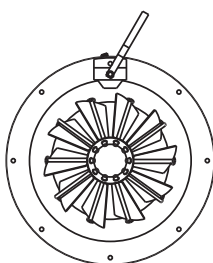
PLC Size	A	B
120	12-7/8	3-3/4
135	14-3/8	3-3/4
150	15-7/8	3-3/4
165	17-3/8	3-3/4
180	18-7/8	3-3/4
195	20	4-5/16
210	21-3/4	4-5/16
225	23-1/4	4-5/16
245	25-1/4	4-5/16
270	27-1/4	4-3/16
300	30-3/4	4-1/4
330	33-3/4	4-1/4
365	37-1/4	4-1/4
402	41	3-1/4
445	45-1/4	3-1/4
490	50-3/4	3-3/4
540	56	4-5/8
600	62	4-5/8
660	68	4-3/8
730	75	5-3/8

All dimensions in inches.

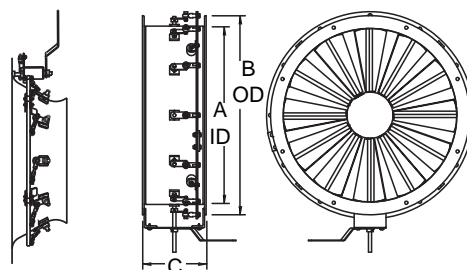
Inlet Vane Damper

Inlet vane dampers are available in nested or external type. Inlet vane dampers are used to provide precise air volume control while maintaining maximum efficiency and stable operation at part load conditions. Nested type Inlet Vane Dampers are typically used in non-ducted applications, while external Inlet Vane Dampers are used in ducted applications. Nested type is available on sizes 245 to 730. External type is available on sizes 120 to 730. External inlet vane dampers used on Arrangement 3 fans require optional flanged inlet connection and should only be used when a direct inlet duct connection is required. Cataloged performance is based on fans without inlet vane dampers.

Nested



External



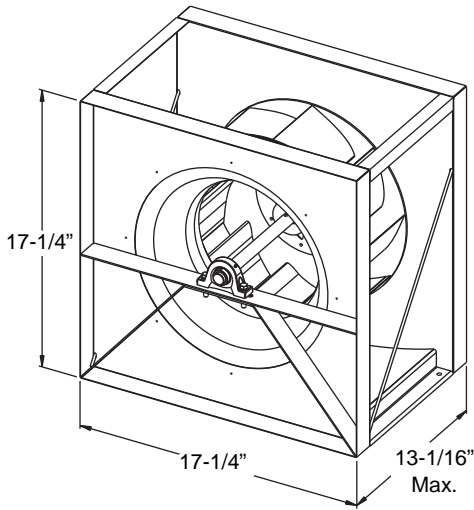
PLC Size	A	B	C	Approx. Ship Wt. Lbs.
				Alum. Ext.
120	12-7/8	15-7/8	10	20
135	14-3/8	17-3/8	10	23
150	15-7/8	18-7/8	10	26
165	17-3/8	20-3/8	10	30
180	18-7/8	21-7/8	10	33
195	20	23	10	36
210	21-3/4	24-3/4	10	39
225	23-1/4	26-1/4	10	42
245	25-1/4	28-1/4	10	47
270	27-1/4	31-1/4	10	54
300	30-1/4	34-1/4	10	62
330	33-1/4	37-1/4	10	70
365	36-3/4	40-3/4	10	79
402	40-1/2	44-1/2	11	89
445	44-3/4	48-3/4	11	100
490	50-1/4	54-1/4	11	112
540	55-1/4	59-1/4	12	126
600	61-1/4	65-1/4	12	142
660	67-1/4	71-1/4	12	158
730	74-1/4	78-1/4	12	176

All dimensions in inches.

120-150 PLC Data

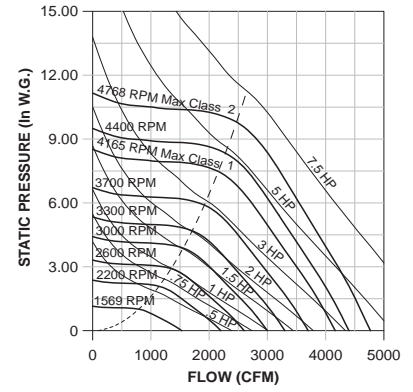
120 PLC

Wheel Diameter - 12"
Wheel Type - Airfoil
Tip Speed (FPM) = 3.14 x RPM
Max. BHP = .057 x (RPM/1000)³
Inlet Area - .92 Sq. Ft.
Outlet Area - 1.14 Sq. Ft.
Outlet Velocity (FPM) = CFM/1.14



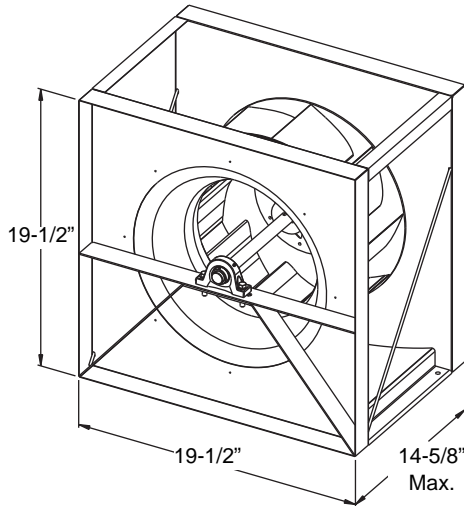
Class I Max. RPM - 4165
Class II Max. RPM - 4768

120 PLC



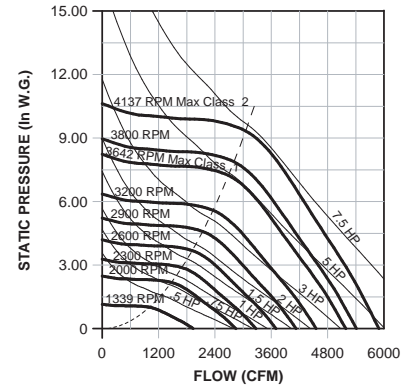
135 PLC

Wheel Diameter - 13.5"
Wheel Type - Airfoil
Tip Speed (FPM) = 3.53 x RPM
Max. BHP = .103 x (RPM/1000)³
Inlet Area - 1.12 Sq. Ft.
Outlet Area - 1.44 Sq. Ft.
Outlet Velocity (FPM) = CFM/1.44



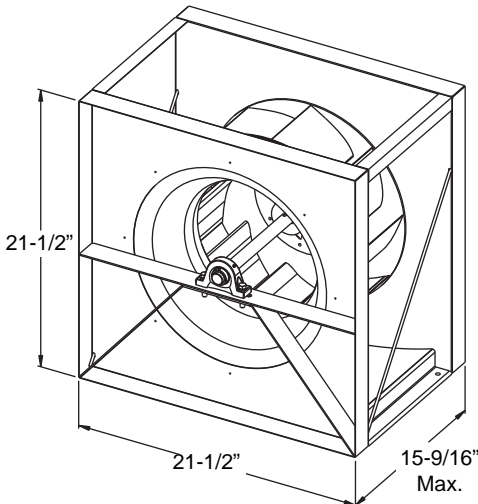
Class I Max. RPM - 3642
Class II Max. RPM - 4137

135 PLC



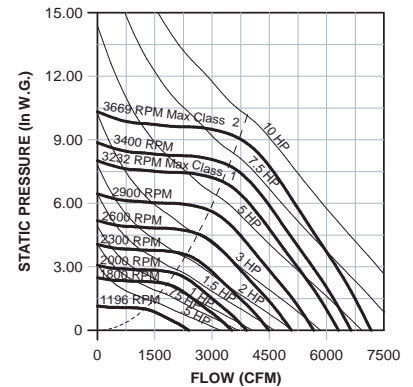
150 PLC

Wheel Diameter - 15"
Wheel Type - Airfoil
Tip Speed (FPM) = 3.93 x RPM
Max. BHP = .174 x (RPM/1000)³
Inlet Area - 1.39 Sq. Ft.
Outlet Area - 1.77 Sq. Ft.
Outlet Velocity (FPM) = CFM/1.77



Class I Max. RPM - 3232
Class II Max. RPM - 3669

150 PLC



Performance certified is for Installation Type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

120 PLC

CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	792	1569	0.22																
1100	969	1691	0.27																
1300	1145	1835	0.34	2233	0.63														
1500	1321	1988	0.42	2354	0.74	2690	1.10												
1700	1497	2145	0.51	2493	0.87	2796	1.25	3092	1.67										
1900	1674	2305	0.62	2642	1.01	2925	1.42	3192	1.85	3457	2.34								
2100	1850	2470	0.74	2795	1.17	3066	1.61	3314	2.07	3555	2.56	3795	3.10						
2300	2026	2639	0.88	2951	1.35	3215	1.82	3451	2.31	3675	2.83	3894	3.37	4331	4.58				
2500	2202	2812	1.04	3110	1.54	3367	2.06	3595	2.58	3808	3.12	4013	3.68	4416	4.89				
2700	2378	2989	1.22	3271	1.76	3522	2.31	3745	2.87	3950	3.44	4145	4.03	4522	5.27				
2900	2555	3169	1.43	3435	2.00	3679	2.59	3898	3.19	4098	3.80	4285	4.41	4642	5.69				
3100	2731	3352	1.66	3602	2.26	3839	2.89	4054	3.53	4249	4.17	4432	4.82						
3300	2907	3538	1.92	3772	2.55	4001	3.22	4211	3.89	4403	4.58	4582	5.26						
3520	3101	3743	2.24	3963	2.91	4181	3.61	4385	4.32	4574	5.05	4749	5.78						
3740	3295	3952	2.60	4156	3.30	4364	4.04	4562	4.79	4747	5.56								
3960	3488	4161	3.00	4353	3.73	4550	4.51	4741	5.30										
4180	3682	4369	3.43	4554	4.21	4738	5.01												
4400	3876	4583	3.93	4755	4.73														

135 PLC

CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	695	1339	0.23																
1200	834	1433	0.29																
1400	973	1545	0.36	1889	0.66														
1600	1113	1665	0.43	1978	0.76	2275	1.13												
1800	1252	1790	0.51	2083	0.88	2348	1.27												
2000	1391	1918	0.60	2196	1.02	2442	1.43	2679	1.87										
2200	1530	2047	0.71	2316	1.17	2548	1.61	2766	2.08	2981	2.58								
2400	1669	2174	0.82	2439	1.32	2661	1.82	2867	2.31	3065	2.82	3262	3.37						
2600	1808	2301	0.95	2566	1.5	2779	2.03	2975	2.56	3162	3.1	3344	3.67	3712	4.9				
2800	1947	2427	1.10	2694	1.68	2901	2.27	3089	2.84	3268	3.41	3439	3.99	3777	5.25				
3000	2086	2553	1.26	2822	1.88	3026	2.51	3208	3.13	3379	3.74	3543	4.35	3860	5.64				
3200	2226	2680	1.44	2951	2.1	3153	2.77	3329	3.44	3495	4.09	3653	4.74	3955	6.08				
3400	2365	2808	1.64	3079	2.33	3281	3.05	3454	3.76	3614	4.46	3767	5.15	4057	6.55				
3600	2504	2938	1.87	3206	2.59	3410	3.34	3580	4.1	3736	4.85	3884	5.58						
3800	2643	3068	2.11	3332	2.87	3538	3.66	3707	4.45	3860	5.25	4005	6.04						
4000	2782	3201	2.38	3458	3.17	3666	3.99	3836	4.83	3986	5.67	4128	6.51						
4200	2921	3334	2.67	3584	3.5	3794	4.36	3965	5.23	4114	6.11								
4400	3060	3469	2.99	3710	3.84	3920	4.74	4093	5.66										
4600	3200	3603	3.33	3837	4.22	4047	5.16												
4800	3339	3742	3.72	3966	4.63														
5000	3478	3878	4.12	4094	5.06														

150 PLC

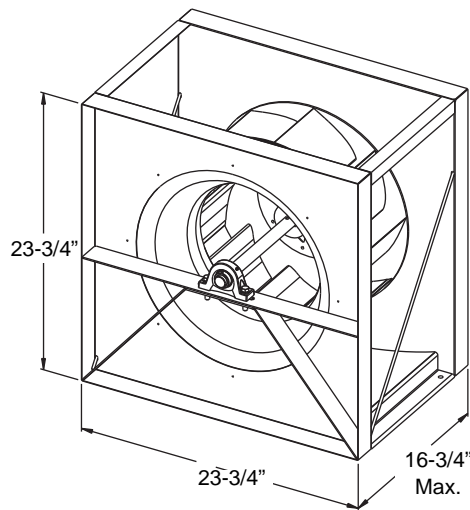
CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	676	1196	0.28																
1450	816	1278	0.35																
1700	957	1378	0.43	1692	.80														
1950	1098	1487	0.52	1771	.92														
2200	1239	1601	0.62	1866	1.07	2106	1.55												
2450	1380	1717	0.74	1968	1.24	2191	1.75	2406	2.30										
2700	1521	1835	0.86	2077	1.43	2287	1.98	2484	2.55	2679	3.16								
2950	1662	1951	1.01	2190	1.63	2390	2.23	2575	2.83	2754	3.47	2932	4.15						
3200	1802	2067	1.17	2305	1.84	2497	2.50	2674	3.15	2843	3.82	3006	4.51						
3450	1943	2182	1.35	2422	2.07	2608	2.79	2777	3.49	2938	4.20	3093	4.92	3398	6.47				
3700	2084	2296	1.55	2539	2.32	2722	3.09	2886	3.86	3039	4.61	3188	5.37	3473	6.95				
3950	2225	2412	1.78	2656	2.59	2838	3.42	2996	4.24	3145	5.05	3287	5.85	3560	7.50				
4200	2366	2529	2.03	2772	2.88	2954	3.76	3109	4.64	3254	5.51	3391	6.37	3653	8.09				
4450	2507	2646	2.31	2888	3.21	3071	4.13	3225	5.07	3365	5.99	3498	6.90						
4700	2648	2765	2.61	3003	3.55	3189	4.53	3341	5.51	3478	6.49	3608	7.47						
4950	2788	2886	2.95	3118	3.93	3305	4.95	3458	5.99	3593	7.02								
5200	2929	3008	3.32	3233	4.34	3421	5.40	3575	6.49										
5450	3070	3131	3.72	3348	4.78	3537	5.89												
5700	3211	3254	4.16	3463	5.25	3652	6.41												
5950	3352	3379	4.64	3581	5.77														

Performance certified is for Installation Type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

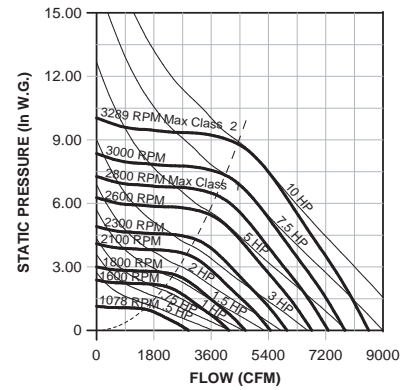
165 PLC

Wheel Diameter - 16.5"
Wheel Type - Airfoil
Tip Speed (FPM) = 4.32 x RPM
Max. BHP = .280 x (RPM/1000)³
Inlet Area - 1.67 Sq. Ft.
Outlet Area - 2.15 Sq. Ft.
Outlet Velocity (FPM) = CFM/2.15

Class I Max. RPM - 2800
Class II Max. RPM - 3289



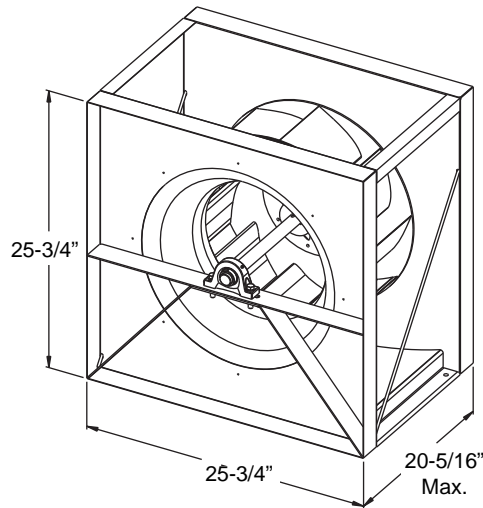
165 PLC



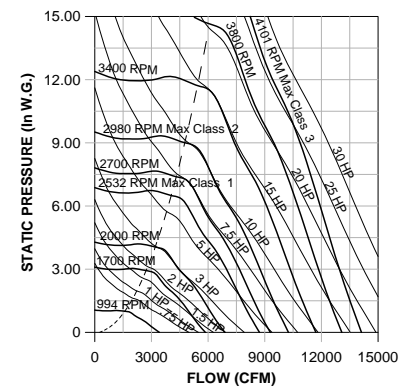
180 PLC

Wheel Diameter - 18"
Wheel Type - Airfoil
Tip Speed (FPM) = 4.71 x RPM
Max. BHP = .382 x (RPM/1000)³
Inlet Area - 2.025 Sq. Ft.
Outlet Area - 2.56 Sq. Ft.
Outlet Velocity (FPM) = CFM/2.56

Class I Max. RPM - 2532
Class II Max. RPM - 2980
Class III Max. RPM - 4101



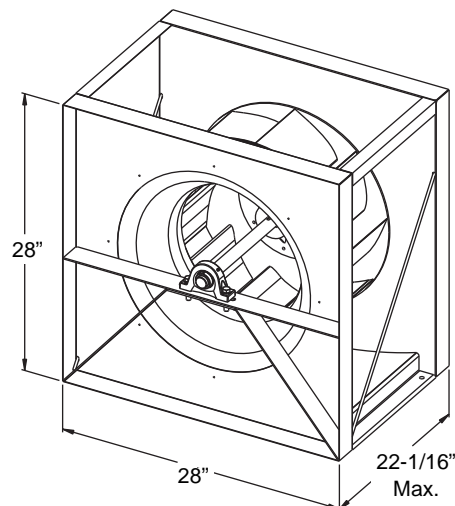
180 PLC



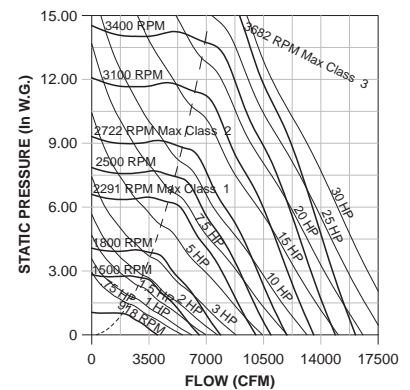
195 PLC

Wheel Diameter - 19.5"
Wheel Type - Airfoil
Tip Speed (FPM) = 5.11 x RPM
Max. BHP = .570 x (RPM/1000)³
Inlet Area - 2.31 Sq. Ft.
Outlet Area - 3.00 Sq. Ft.
Outlet Velocity (FPM) = CFM/3.00

Class I Max. RPM - 2291
Class II Max. RPM - 2722
Class III Max. RPM - 3682



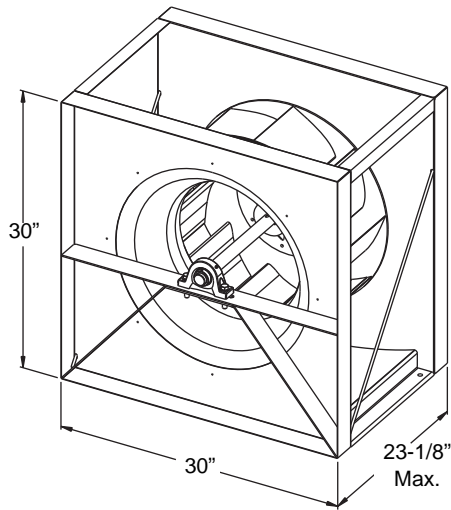
195 PLC



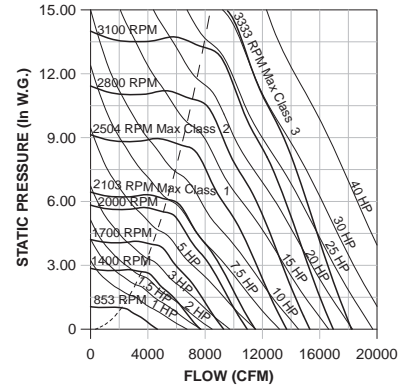
210 PLC

Wheel Diameter - 21"
Wheel Type - Airfoil
Tip Speed (FPM) = 5.50 x RPM
Max. BHP = .83 x (RPM/1000)³
Inlet Area - 2.69 Sq. Ft.
Outlet Area - 3.48 Sq. Ft.
Outlet Velocity (FPM) = CFM/3.48

Class I Max. RPM - 2103
Class II Max. RPM - 2504
Class III Max. RPM - 3333



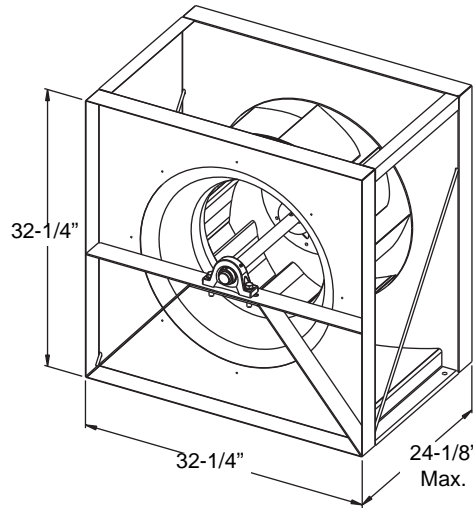
210 PLC



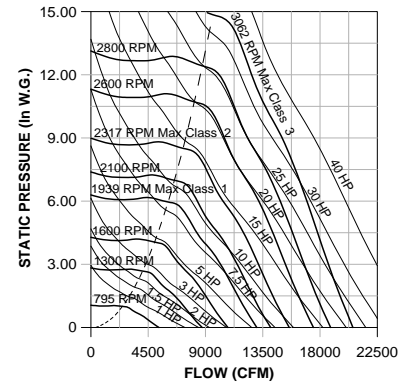
225 PLC

Wheel Diameter - 22.5"
Wheel Type - Airfoil
Tip Speed (FPM) = 5.89 x RPM
Max. BHP = 1.17 x (RPM/1000)³
Inlet Area - 3.02 Sq. Ft.
Outlet Area - 3.99 Sq. Ft.
Outlet Velocity (FPM) = CFM/3.99

Class I Max. RPM - 1939
Class II Max. RPM - 2317
Class III Max. RPM - 3062



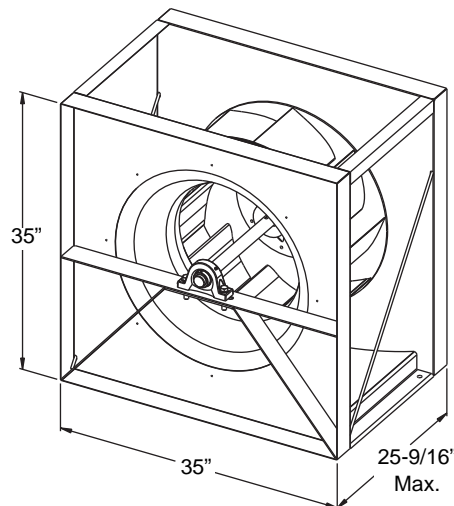
225 PLC



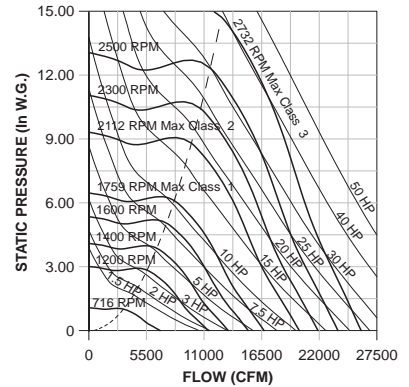
245 PLC

Wheel Diameter - 24.5"
Wheel Type - Airfoil
Tip Speed (FPM) = 6.41 x RPM
Max. BHP = 1.99 x (RPM/1000)³
Inlet Area - 3.64 Sq. Ft.
Outlet Area - 4.73 Sq. Ft.
Outlet Velocity (FPM) = CFM/4.73

Class I Max. RPM - 1759
Class II Max. RPM - 2112
Class III Max. RPM - 2732



245 PLC



210 PLC

CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2200	632	853	0.50																
3050	877	930	0.66																
3900	1121	1038	0.90	1259	1.64	1478	2.62												
4750	1366	1146	1.16	1375	2.10	1539	3.00	1714	4.13										
5600	1610	1272	1.51	1478	2.59	1655	3.67	1791	4.72	1932	5.94	2093	7.46						
6450	1855	1407	1.95	1584	3.11	1763	4.41	1908	5.63	2028	6.83	2146	8.14	2416	11.5				
7300	2099	1545	2.50	1705	3.73	1863	5.15	2018	6.62	2146	8.01	2254	9.35	2462	12.3	2703	16.1		
8150	2343	1687	3.17	1835	4.49	1974	5.97	2118	7.61	2255	9.24	2371	10.8	2564	13.8	2752	17.2	2966	21.4
9000	2588	1830	3.94	1970	5.39	2097	6.93	2224	8.65	2354	10.5	2479	12.3	2682	15.7	2852	19.0	3022	22.8
9850	2832	1975	4.86	2108	6.43	2227	8.05	2342	9.82	2459	11.7	2578	13.7	2796	17.6	2969	21.3	3123	25.0
10700	3077	2120	5.90	2248	7.63	2361	9.35	2467	11.2	2574	13.2	2682	15.3	2898	19.6	3085	23.7	3239	27.7
11550	3321	2266	7.09	2390	9.00	2497	10.8	2599	12.7	2697	14.8	2796	17.0	2998	21.6	3192	26.2		
12400	3566	2414	8.46	2532	10.5	2636	12.5	2733	14.5	2826	16.6	2917	18.8	3102	23.6	3291	28.6		
13300	3825	2570	10.1	2686	12.4	2786	14.5	2878	16.6	2966	18.8	3052	21.0	3223	26.0				
14200	4083	2728	11.9	2838	14.3	2936	16.7	3025	18.9	3110	21.2	3192	23.6						
15100	4342	2884	14.0	2993	16.6	3087	19.1	3174	21.5	3255	23.9	3333	26.3						
16000	4601	3045	16.3	3146	19.1	3240	21.8	3323	24.3										
16900	4860	3205	18.9	3304	21.8														

225 PLC

CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2500	626	795	0.57																
3450	864	862	0.74																
4400	1102	962	1.01	1167	1.85	1378	2.99												
5350	1340	1058	1.30	1272	2.36	1426	3.37	1596	4.70										
6300	1578	1171	1.67	1367	2.90	1529	4.10	1658	5.30	1796	6.74	1950	8.49						
7250	1816	1293	2.16	1461	3.47	1630	4.93	1763	6.29	1875	7.65	1989	9.17	2251	13.0				
8200	2054	1418	2.75	1569	4.14	1720	5.75	1865	7.39	1982	8.93	2082	10.4	2285	13.9	2518	18.3		
9200	2304	1553	3.50	1692	5.00	1825	6.70	1961	8.55	2089	10.4	2195	12.1	2375	15.5	2557	19.5	2763	24.3
10200	2555	1689	4.39	1821	6.04	1941	7.80	2061	9.76	2184	11.8	2300	13.9	2487	17.7	2646	21.5	2809	25.8
11200	2805	1828	5.46	1953	7.25	2064	9.09	2173	11.1	2283	13.3	2395	15.6	2597	20.0	2758	24.1	2902	28.4
12200	3056	1967	6.67	2087	8.65	2192	10.6	2292	12.7	2392	15.0	2493	17.4	2697	22.3	2870	27.0	3013	31.5
13200	3306	2107	8.07	2222	10.2	2323	12.3	2418	14.5	2510	16.8	2602	19.3	2791	24.6	2972	29.9		
14200	3557	2248	9.66	2359	12.0	2455	14.3	2546	16.6	2632	19.0	2718	21.5	2891	27.0				
15200	3807	2389	11.5	2497	14.0	2591	16.5	2676	18.9	2759	21.4	2839	24.0	2999	29.6				
16200	4058	2532	13.5	2635	16.3	2726	18.9	2809	21.4	2889	24.1	2965	26.8						
17200	4308	2673	15.7	2775	18.7	2863	21.6	2944	24.3	3020	27.0								
18200	4559	2818	18.3	2913	21.4	3001	24.5												
19200	4809	2963	21.1	3055	24.5														

245 PLC

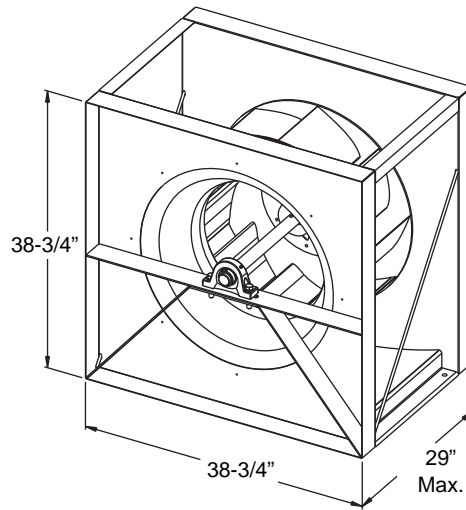
CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3400	718	716	0.71																
4600	972	784	0.96																
5800	1226	874	1.27	1065	2.41														
7000	1479	982	1.68	1143	2.95	1298	4.35	1441	5.81										
8200	1733	1095	2.18	1236	3.60	1374	5.16	1506	6.80	1630	8.50								
9400	1987	1208	2.78	1342	4.38	1462	6.07	1582	7.87	1698	9.76	1808	11.7						
10600	2241	1320	3.50	1454	5.30	1562	7.13	1669	9.08	1774	11.1	1878	13.2	2073	17.6				
11800	2494	1431	4.33	1567	6.34	1670	8.35	1766	10.4	1862	12.6	1957	14.9	2142	19.6	2315	24.4	2481	29.5
13000	2748	1543	5.29	1681	7.56	1782	9.74	1871	12.0	1958	14.3	2045	16.7	2217	21.7	2383	27.0	2540	32.3
14200	3002	1656	6.38	1793	8.91	1896	11.3	1982	13.7	2062	16.2	2141	18.7	2301	24.0	2457	29.6	2608	35.3
15400	3255	1771	7.64	1904	10.4	2009	13.0	2095	15.7	2171	18.3	2245	21.0	2392	26.6	2538	32.4	2682	38.5
16600	3509	1887	9.05	2016	12.1	2122	15.0	2208	17.8	2284	20.6	2354	23.5	2489	29.3	2626	35.4		
17800	3763	2005	10.7	2127	14.0	2234	17.1	2322	20.1	2397	23.1	2465	26.1	2594	32.3	2720	38.7		
19000	4016	2122	12.4	2239	16.0	2345	19.4	2435	22.7	2511	25.9	2578	29.1	2703	35.6				
20250	4281	2248	14.6	2358	18.4	2461	22.1	2551	25.6	2629	29.0	2697	32.5						
21500	4545	2373	16.9	2477	21.0	2576	24.9	2667	28.7										
22750	4809	2498	19.5	2598	23.8	2694	28.1												
24000	5073	2626	22.5	2719	26.9														

Performance certified is for Installation Type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

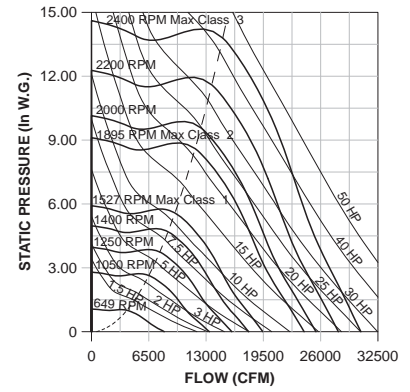
270 PLC

Wheel Diameter - 27"
Wheel Type - Airfoil
Tip Speed (FPM) = 7.07 x RPM
Max. BHP = 3.24 x (RPM/1000)³
Inlet Area - 4.35 Sq. Ft.
Outlet Area - 5.75 Sq. Ft.
Outlet Velocity (FPM) = CFM/5.75

Class I Max. RPM - 1527
Class II Max. RPM - 1895
Class III Max. RPM - 2400



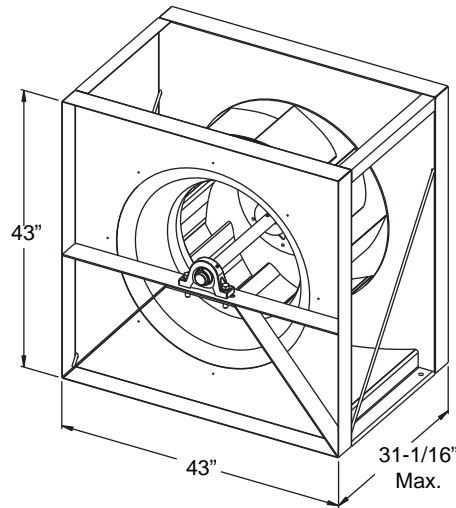
270 PLC



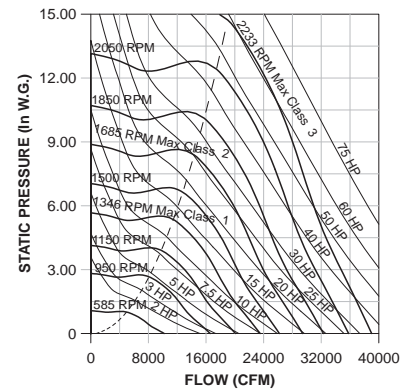
300 PLC

Wheel Diameter - 30"
Wheel Type - Airfoil
Tip Speed (FPM) = 7.85 x RPM
Max. BHP = 5.49 x (RPM/1000)³
Inlet Area - 5.36 Sq. Ft.
Outlet Area - 7.10 Sq. Ft.
Outlet Velocity (FPM) = CFM/7.10

Class I Max. RPM - 1346
Class II Max. RPM - 1685
Class III Max. RPM - 2233



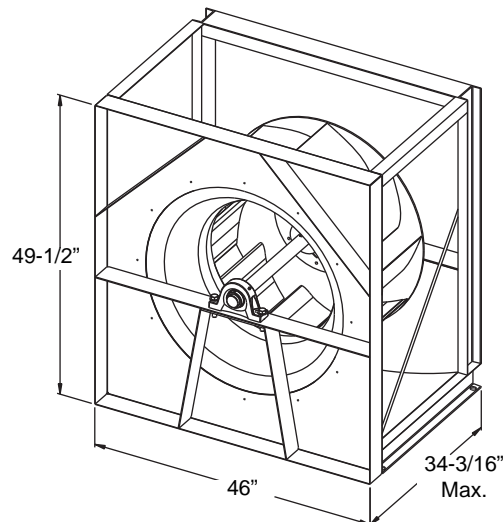
300 PLC



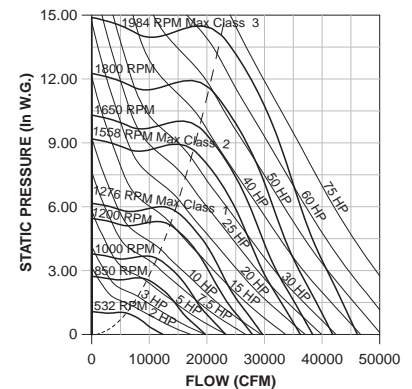
330 PLC

Wheel Diameter - 33"
Wheel Type - Airfoil
Tip Speed (FPM) = 8.64 x RPM
Max. BHP = 8.84 x (RPM/1000)³
Inlet Area - 6.49 Sq. Ft.
Outlet Area - 8.59 Sq. Ft.
Outlet Velocity (FPM) = CFM/8.59

Class I Max. RPM - 1276
Class II Max. RPM - 1558
Class III Max. RPM - 1984



330 PLC



270 PLC

CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4100	713	649	0.85																
5500	956	707	1.15																
6900	1200	785	1.51	960	2.86														
8300	1443	877	1.96	1027	3.49	1169	5.15	1301	6.91										
9700	1687	975	2.53	1106	4.23	1234	6.08	1355	8.04	1469	10.1								
11100	1930	1074	3.21	1196	5.10	1309	7.13	1420	9.27	1526	11.5	1627	13.8						
12500	2174	1172	4.01	1293	6.13	1393	8.31	1493	10.6	1591	13.0	1687	15.6	1867	20.7				
13900	2417	1268	4.93	1392	7.32	1486	9.69	1575	12.2	1665	14.8	1754	17.5	1925	23.1	2084	28.8		
15300	2661	1366	6.01	1491	8.66	1583	11.2	1665	13.9	1746	16.6	1828	19.5	1988	25.5	2141	31.7	2286	38.0
16700	2904	1464	7.23	1589	10.2	1682	13.0	1760	15.8	1835	18.8	1909	21.8	2059	28.1	2204	34.7	2343	41.5
18100	3148	1563	8.61	1686	11.9	1781	15.0	1858	18.0	1929	21.1	1997	24.3	2135	30.9	2272	37.9		
19500	3391	1665	10.2	1783	13.7	1880	17.1	1957	20.4	2026	23.7	2091	27.1	2218	34.0	2346	41.3		
20950	3644	1770	12.0	1884	15.9	1981	19.6	2060	23.1	2128	26.7	2191	30.2	2310	37.5				
22400	3896	1877	14.1	1985	18.3	2081	22.2	2162	26.1	2231	29.9	2292	33.7						
23850	4148	1984	16.4	2087	20.9	2181	25.2	2263	29.3	2333	33.4	2395	37.4						
25300	4400	2093	19.0	2190	23.8	2282	28.4	2364	32.8										
26750	4652	2200	21.8	2294	26.9	2383	31.8												
28200	4905	2311	25.1	2399	30.3														

300 PLC

CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5100	718	585	1.06																
6900	972	641	1.44																
8700	1225	714	1.91	870	3.61														
10500	1479	802	2.52	934	4.43	1061	6.54	1177	8.71										
12300	1733	894	3.26	1010	5.40	1122	7.72	1230	10.2	1331	12.7								
14100	1986	987	4.18	1096	6.56	1195	9.12	1292	11.8	1387	14.6	1477	17.5						
15900	2240	1078	5.24	1188	7.95	1276	10.7	1363	13.6	1450	16.7	1534	19.8	1694	26.3				
17700	2493	1169	6.49	1281	9.53	1364	12.5	1442	15.6	1521	18.9	1599	22.3	1750	29.4	1892	36.7	2027	44.2
19500	2747	1261	7.93	1373	11.3	1456	14.6	1528	17.9	1599	21.4	1671	25.1	1811	32.5	1947	40.4	2075	48.4
21300	3001	1353	9.57	1465	13.4	1549	17.0	1619	20.6	1685	24.3	1749	28.1	1880	36.1	2007	44.4	2131	53.0
23150	3261	1449	11.5	1558	15.7	1644	19.6	1714	23.6	1776	27.5	1837	31.6	1956	39.9	2076	48.7	2193	57.9
25000	3522	1547	13.7	1652	18.3	1739	22.7	1809	26.8	1871	31.1	1928	35.4	2038	44.2	2150	53.4		
26850	3783	1646	16.2	1746	21.2	1833	26.0	1905	30.5	1966	35.0	2022	39.6	2127	48.9	2229	58.5		
28700	4043	1745	19.0	1840	24.4	1926	29.5	1999	34.5	2062	39.4	2117	44.2	2218	54.0				
30550	4304	1846	22.2	1936	27.9	2020	33.5	2093	38.8	2157	44.0	2212	49.1						
32400	4565	1947	25.7	2032	31.8	2113	37.7	2187	43.5										
34250	4825	2048	29.6	2130	36.1	2208	42.4												
36100	5086	2151	34.0	2227	40.7														

330 PLC

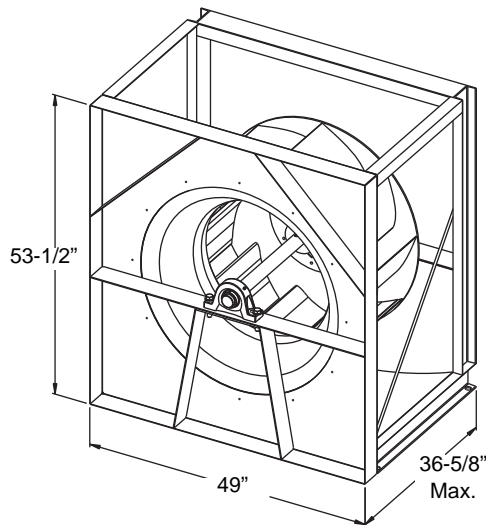
CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6200	721	532	1.29																
8300	966	581	1.73																
10400	1210	645	2.27	788	4.31														
12500	1455	721	2.96	843	5.25	960	7.78	1067	10.4										
14600	1700	802	3.82	909	6.38	1013	9.16	1112	12.1	1205	15.1								
16700	1944	883	4.85	983	7.69	1075	10.7	1165	13.9	1252	17.3	1335	20.8						
18800	2189	964	6.07	1063	9.25	1145	12.5	1226	16.0	1306	19.6	1384	23.4	1531	31.2				
20900	2433	1043	7.46	1144	11.0	1221	14.6	1294	18.3	1367	22.2	1439	26.2	1579	34.7	1709	43.3		
23000	2678	1123	9.08	1225	13.1	1301	17.0	1368	20.9	1434	25.1	1500	29.3	1631	38.3	1756	47.7	1874	57.1
25100	2922	1204	10.9	1306	15.4	1382	19.6	1446	23.9	1507	28.3	1568	32.8	1689	42.2	1808	52.2	1922	62.5
27200	3167	1286	13.0	1386	17.9	1464	22.6	1527	27.2	1585	31.8	1640	36.6	1753	46.6	1864	57.0	1973	67.9
29400	3423	1373	15.5	1469	20.9	1548	26.0	1612	30.9	1668	35.9	1721	41.0	1825	51.5	1928	62.4		
31600	3679	1461	18.4	1553	24.2	1632	29.7	1697	35.1	1753	40.4	1804	45.8	1901	56.8				
33800	3935	1549	21.5	1637	27.8	1716	33.9	1782	39.7	1838	45.3	1889	51.1	1982	62.7				
36000	4191	1639	25.2	1722	31.9	1799	38.4	1866	44.6	1924	50.8	1974	56.8						
38200	4448	1729	29.2	1808	36.3	1883	43.3	1950	50.0										
40400	4704	1818	33.5	1895	41.2	1967	48.6												
42600	4960	1910	38.5	1982	46.5														

Performance certified is for Installation Type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

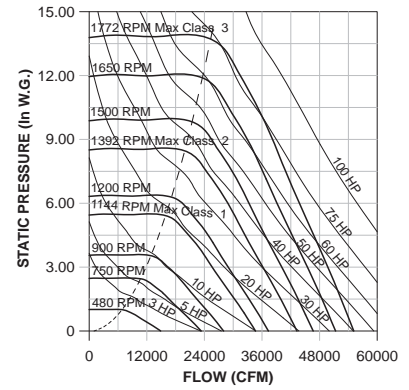
365 PLC

Wheel Diameter - 36.5"
Wheel Type - Airfoil
Tip Speed (FPM) = 9.56 x RPM
Max. BHP = 14.0 x (RPM/1000)³
Inlet Area - 7.98 Sq. Ft.
Outlet Area - 10.51 Sq. Ft.
Outlet Velocity (FPM) = CFM/10.51

Class I Max. RPM - 1144
Class II Max. RPM - 1392
Class III Max. RPM - 1772



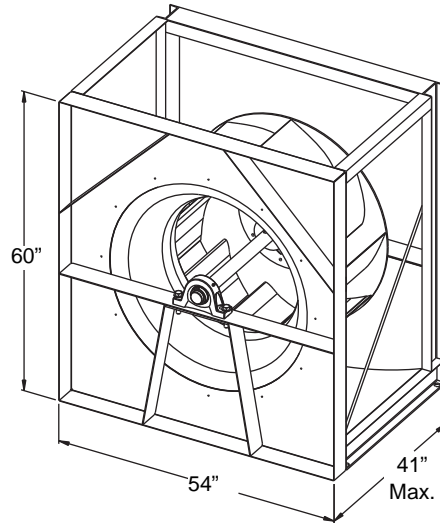
365 PLC



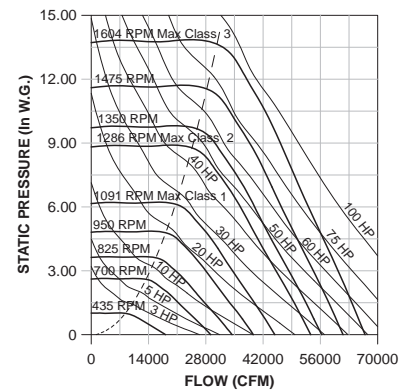
402 PLC

Wheel Diameter - 40.25"
Wheel Type - Airfoil
Tip Speed (FPM) = 10.54 x RPM
Max. BHP = 22.8 x (RPM/1000)³
Inlet Area - 9.72 Sq. Ft.
Outlet Area - 12.78 Sq. Ft.
Outlet Velocity (FPM) = CFM/12.78

Class I Max. RPM - 1091
Class II Max. RPM - 1286
Class III Max. RPM - 1604



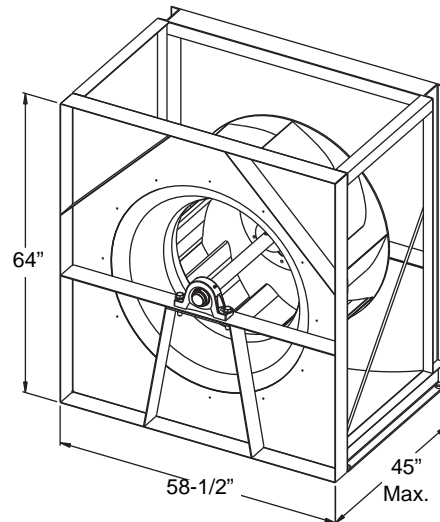
402 PLC



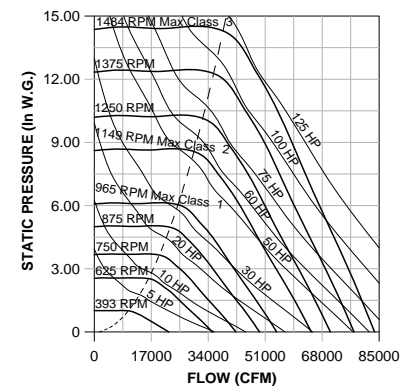
445 PLC

Wheel Diameter - 44.5"
Wheel Type - Airfoil
Tip Speed (FPM) = 11.65 x RPM
Max. BHP = 37.6 x (RPM/1000)³
Inlet Area - 11.86 Sq. Ft.
Outlet Area - 15.62 Sq. Ft.
Outlet Velocity (FPM) = CFM/15.62

Class I Max. RPM - 965
Class II Max. RPM - 1149
Class III Max. RPM - 1484



445 PLC



365 PLC

CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7000	666	480	1.45																
9600	913	522	1.99																
12200	1160	578	2.56	711	5.00	831	7.56												
14800	1408	643	3.34	762	6.10	868	9.09	966	12.1										
17400	1655	711	4.30	821	7.32	919	10.8	1008	14.3	1090	17.6	1177	21.6						
20000	1902	780	5.41	886	8.84	974	12.4	1059	16.5	1138	20.6	1210	24.4	1358	33.1				
22600	2150	851	6.72	953	10.6	1037	14.5	1114	18.7	1189	23.3	1260	28.0	1388	36.6	1520	46.5		
25200	2397	923	8.21	1021	12.6	1103	16.9	1175	21.3	1244	26.1	1311	31.2	1437	41.5	1551	51.1	1669	62.0
27800	2645	997	9.95	1090	14.9	1170	19.6	1241	24.4	1305	29.3	1367	34.5	1488	45.9	1600	57.2	1702	67.7
30400	2892	1073	12.0	1160	17.3	1238	22.6	1307	27.8	1370	33.1	1428	38.4	1541	50.1	1651	62.9	1751	74.9
33000	3139	1150	14.3	1231	20.1	1307	25.9	1375	31.6	1436	37.2	1493	42.9	1599	54.9	1702	68.0		
35600	3387	1227	16.9	1304	23.2	1377	29.5	1443	35.7	1503	41.7	1559	47.8	1661	60.2	1758	73.6		
38250	3639	1308	20.0	1380	26.7	1449	33.5	1513	40.1	1572	46.7	1627	53.2	1728	66.4				
40900	3891	1388	23.4	1456	30.5	1521	37.7	1584	45.0	1643	52.2	1696	59.1						
43550	4143	1470	27.3	1533	34.7	1596	42.5	1656	50.2	1713	57.9	1766	65.4						
46200	4395	1552	31.7	1612	39.5	1671	47.7	1729	55.9										
48850	4647	1633	36.3	1691	44.7	1747	53.2												
51500	4900	1714	41.4	1771	50.4														

402 PLC

CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8500	665	435	1.76																
11650	911	473	2.41																
14800	1158	524	3.11	644	6.05	754	9.19												
17950	1404	583	4.05	691	7.41	787	11.0	876	14.7										
21100	1651	644	5.20	744	8.88	833	13.1	914	17.3	989	21.4	1067	26.1						
24250	1897	706	6.55	802	10.7	883	15.1	960	20.0	1031	24.9	1097	29.6	1232	40.1				
27400	2143	770	8.12	863	12.9	939	17.6	1009	22.7	1077	28.2	1142	33.9	1259	44.5	1379	56.5		
30550	2390	835	9.92	924	15.3	999	20.5	1065	25.9	1127	31.6	1188	37.8	1303	50.3	1406	61.9	1514	75.2
33700	2636	902	12.0	987	18.0	1059	23.7	1123	29.5	1182	35.5	1238	41.8	1349	55.7	1450	69.3	1543	82.0
36900	2887	972	14.5	1051	21.0	1122	27.4	1184	33.7	1241	40.0	1295	46.7	1397	60.9	1496	76.2	1588	91.0
40100	3137	1042	17.3	1116	24.4	1185	31.5	1246	38.3	1302	45.2	1354	52.1	1450	66.6	1543	82.5		
43300	3388	1113	20.5	1183	28.2	1249	35.9	1309	43.4	1364	50.8	1414	58.1	1507	73.3	1595	89.5		
46500	3638	1186	24.3	1251	32.4	1314	40.7	1372	48.8	1426	56.8	1476	64.7	1567	80.7				
49700	3888	1258	28.3	1320	37.1	1379	45.8	1436	54.6	1489	63.3	1538	71.8						
52900	4139	1332	33.1	1389	42.1	1446	51.5	1500	60.8	1553	70.3	1601	79.4						
56100	4389	1406	38.4	1460	47.9	1514	57.8	1566	67.7										
59300	4640	1479	44.0	1531	54.1	1582	64.4												
62500	4890	1552	50.1	1603	60.9														

445 PLC

CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10300	659	393	2.14																
14300	915	428	2.95																
18300	1171	476	3.84	585	7.52	683	11.3												
22300	1427	532	5.07	629	9.21	715	13.7	794	18.1										
26300	1683	589	6.54	679	11.1	758	16.2	832	21.7	898	26.7	967	32.4						
30300	1939	648	8.30	735	13.5	807	18.9	875	25.0	940	31.3	998	37.0	1116	49.7				
34300	2195	708	10.3	792	16.3	861	22.2	923	28.5	983	35.4	1041	42.5	1146	55.8	1250	70.2		
38300	2451	770	12.7	850	19.5	917	26.0	976	32.7	1031	39.7	1085	47.4	1188	63.2	1280	77.8	1374	93.8
42300	2708	833	15.5	909	23.0	974	30.3	1031	37.4	1084	44.9	1134	52.8	1231	69.8	1323	87.2	1406	103
46300	2964	898	18.7	968	26.9	1032	35.0	1088	42.9	1139	50.8	1187	59.0	1277	76.4	1366	95.6	1449	115
50300	3220	964	22.5	1029	31.3	1091	40.2	1146	48.9	1196	57.4	1242	66.0	1328	84.1	1410	104		
54300	3476	1030	26.7	1091	36.2	1150	45.8	1204	55.3	1253	64.6	1298	73.7	1382	92.7	1460	113		
58300	3732	1097	31.5	1154	41.6	1210	52.0	1263	62.3	1311	72.3	1356	82.3	1437	102				
62300	3988	1164	36.8	1219	47.8	1272	58.8	1322	69.8	1369	80.6	1413	91.3						
66300	4244	1232	43.0	1283	54.4	1333	66.1	1382	77.9	1428	89.5	1472	101						
70350	4503	1302	50.0	1350	62.0	1397	74.3	1443	86.7										
74400	4763	1370	57.4	1416	70.0	1462	83.3												
78450	5022	1439	65.7	1484	79.3														

Performance certified is for Installation Type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

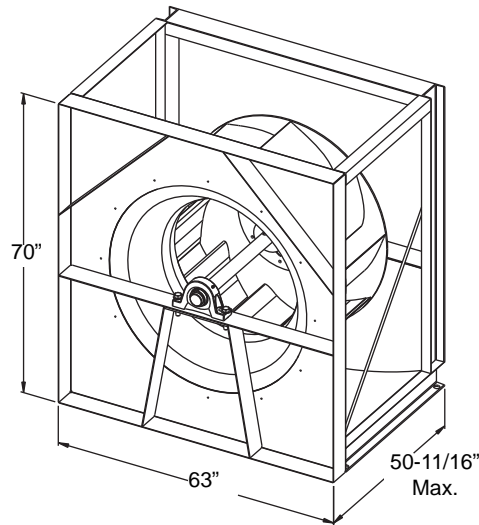
490 PLC

Wheel Diameter - 49"
Wheel Type - Airfoil
Tip Speed (FPM) = 12.83 x RPM
Max. BHP = 60.9 x (RPM/1000)³
Inlet Area - 14.42 Sq. Ft.
Outlet Area - 18.94 Sq. Ft.
Outlet Velocity (FPM) = CFM/18.94

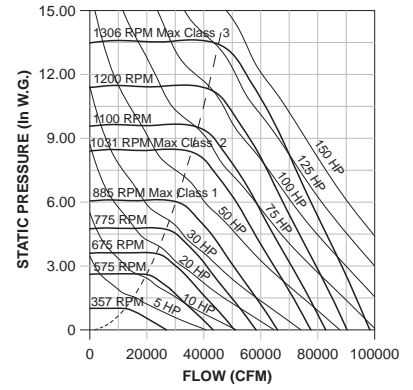
Class I Max. RPM - 885

Class II Max. RPM - 1031

Class III Max. RPM - 1306



490 PLC



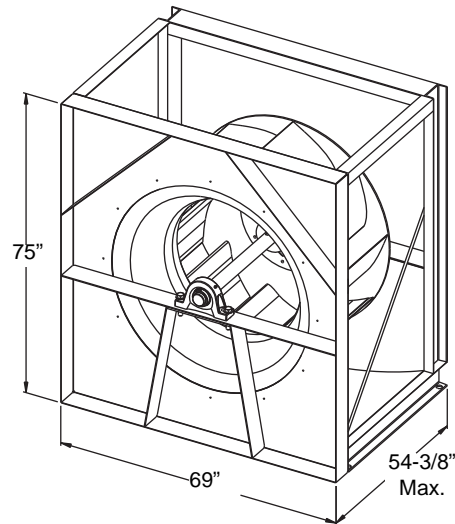
540 PLC

Wheel Diameter - 54"
Wheel Type - Airfoil
Tip Speed (FPM) = 14.14 x RPM
Max. BHP = 98.9 x (RPM/1000)³
Inlet Area - 17.61 Sq. Ft.
Outlet Area - 23.00 Sq. Ft.
Outlet Velocity (FPM) = CFM/23.00

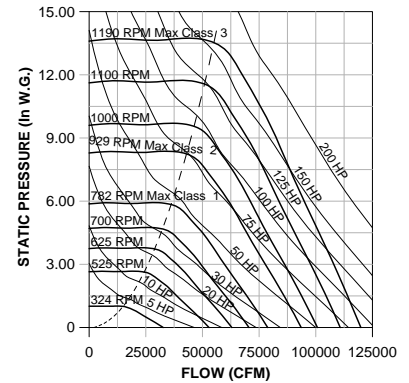
Class I Max. RPM - 782

Class II Max. RPM - 929

Class III Max. RPM - 1190



540 PLC



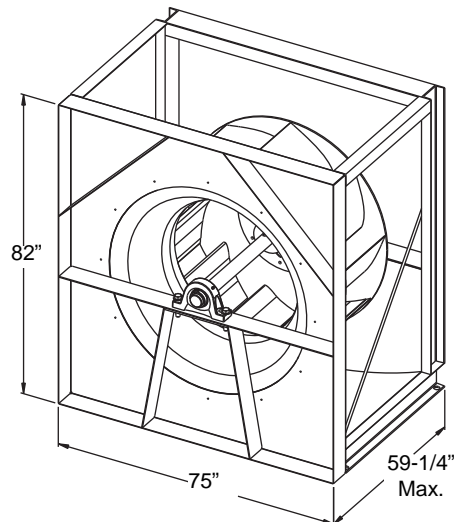
600 PLC

Wheel Diameter - 60"
Wheel Type - Airfoil
Tip Speed (FPM) = 15.71 x RPM
Max. BHP = 167.5 x (RPM/1000)³
Inlet Area - 21.55 Sq. Ft.
Outlet Area - 28.39 Sq. Ft.
Outlet Velocity (FPM) = CFM/28.39

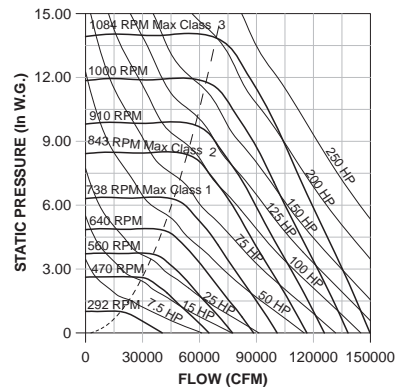
Class I Max. RPM - 738

Class II Max. RPM - 843

Class III Max. RPM - 1084



600 PLC



490 PLC

CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12500	659	357	2.60																
17150	905	388	3.56																
21800	1151	429	4.57	528	8.92	619	13.6												
26450	1396	477	5.95	566	10.9	645	16.2	719	21.6										
31100	1642	527	7.64	609	13.0	682	19.2	749	25.5	811	31.6	876	38.6						
35750	1887	578	9.63	657	15.7	723	22.2	787	29.6	845	36.7	899	43.5	1011	59.3				
40400	2133	630	11.9	706	18.9	769	25.8	827	33.4	883	41.7	936	50.0	1032	65.5	1131	83.3		
45050	2378	683	14.6	757	22.5	818	30.1	872	38.0	923	46.5	974	55.8	1068	74.1	1154	91.5	1242	111
49700	2624	738	17.6	808	26.5	868	35.0	920	43.4	968	52.2	1015	61.7	1106	82.2	1189	102	1266	121
54350	2869	794	21.2	859	30.8	918	40.3	969	49.5	1016	58.9	1060	68.6	1144	89.6	1226	112	1301	134
59000	3115	851	25.3	912	35.7	969	46.1	1019	56.2	1065	66.3	1107	76.4	1187	98.0	1264	122		
63650	3360	908	29.9	966	41.2	1020	52.4	1069	63.3	1114	74.2	1156	85.1	1233	108	1305	132		
68300	3606	966	35.2	1020	47.1	1072	59.3	1120	71.2	1165	83.0	1206	94.7	1280	118				
73000	3854	1025	41.2	1076	53.9	1125	66.8	1172	79.7	1216	92.5	1256	105						
77700	4102	1085	48.0	1133	61.4	1180	75.2	1225	88.9	1267	102								
82400	4350	1145	55.6	1190	69.6	1235	84.2	1278	98.7										
87100	4598	1205	63.8	1248	78.6	1290	93.8												
91800	4846	1264	72.6	1306	88.4														

540 PLC

CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15200	660	324	3.16																
20850	906	352	4.32																
26500	1152	389	5.54	479	10.8	562	16.5												
32150	1397	433	7.23	514	13.3	585	19.7	652	26.2										
37800	1643	478	9.27	553	15.9	619	23.4	680	31.0	736	38.3	795	46.9						
43450	1889	525	11.7	596	19.1	656	27.0	714	35.9	767	44.7	816	52.9	917	71.9				
49100	2134	572	14.5	641	22.9	698	31.4	750	40.5	801	50.6	850	60.9	937	79.7	1027	101		
54800	2382	621	17.8	687	27.3	743	36.7	792	46.3	838	56.5	884	67.8	970	90.3	1047	111	1127	135
60500	2630	671	21.5	734	32.2	788	42.5	836	53.0	880	63.8	922	75.2	1004	100	1079	124	1149	147
66200	2878	722	25.9	781	37.6	834	49.1	881	60.4	923	71.7	963	83.6	1039	109	1114	137	1182	163
71900	3126	774	30.9	830	43.7	881	56.3	927	68.7	968	80.8	1007	93.4	1079	120	1149	148		
77600	3373	826	36.5	879	50.4	928	64.1	973	77.5	1014	90.8	1051	104	1121	131	1186	160		
83300	3621	880	43.2	929	57.8	976	72.6	1019	87.0	1060	102	1097	116	1165	144				
89000	3869	933	50.4	980	66.1	1024	81.7	1066	97.3	1106	113	1143	128						
94700	4117	987	58.6	1031	75.1	1073	91.7	1114	109	1153	125	1189	142						
100400	4365	1042	68.0	1083	85.2	1123	103	1162	121										
106100	4613	1096	78.0	1135	96.0	1173	115												
111800	4860	1150	88.8	1188	108														

600 PLC

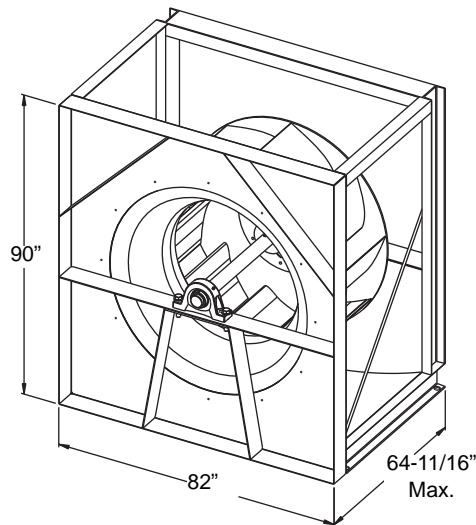
CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18700	658	292	3.91																
25800	908	317	5.34																
32900	1158	351	6.88	432	13.5	506	20.5												
40000	1408	391	8.99	464	16.5	528	24.5	588	32.7										
47100	1658	433	11.6	500	19.8	559	29.1	614	38.7	664	47.8	716	58.2						
54200	1908	475	14.6	540	24.0	594	33.8	645	44.7	693	55.8	737	66.2	827	89.6				
61300	2159	519	18.3	581	28.8	632	39.3	679	50.8	724	63.1	768	76.0	846	99.6	926	126		
68400	2409	563	22.3	623	34.4	673	46.0	717	58.0	758	70.6	799	84.5	876	113	945	139	1016	168
75500	2659	609	27.1	666	40.6	714	53.4	757	66.4	796	79.7	834	93.9	907	125	975	155	1037	184
82600	2909	656	32.8	709	47.4	756	61.7	798	75.8	836	89.9	872	105	940	136	1006	170	1068	204
89800	3162	704	39.3	753	55.0	799	70.8	840	86.2	877	101	912	117	976	149	1039	185		
97000	3416	752	46.5	798	63.5	843	80.9	883	97.7	919	114	953	131	1015	164	1074	201		
104200	3670	801	55.0	845	73.3	887	91.8	926	110	962	128	995	146	1056	181				
111400	3923	850	64.2	892	83.9	931	103	969	123	1005	143	1037	162						
118600	4177	901	75.3	939	95.5	977	117	1013	138	1048	159	1080	179						
125800	4430	951	87.2	987	109	1023	131	1058	153										
133000	4684	1001	100	1035	123	1069	146												
140200	4938	1050	114	1084	138														

Performance certified is for Installation Type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

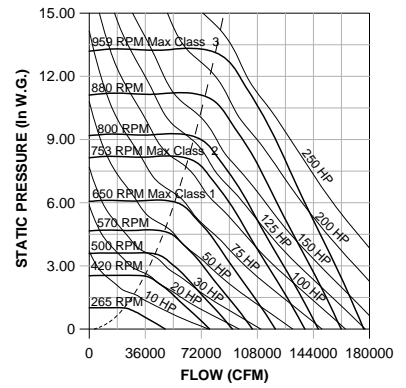
660 PLC

Wheel Diameter - 66"
Wheel Type - Airfoil
Tip Speed (FPM) = 17.28 x RPM
Max. BHP = 269.8 x (RPM/1000)³
Inlet Area - 26.15 Sq. Ft.
Outlet Area - 34.35 Sq. Ft.
Outlet Velocity (FPM) = CFM/34.35

Class I Max. RPM - 650
Class II Max. RPM - 753
Class III Max. RPM - 959



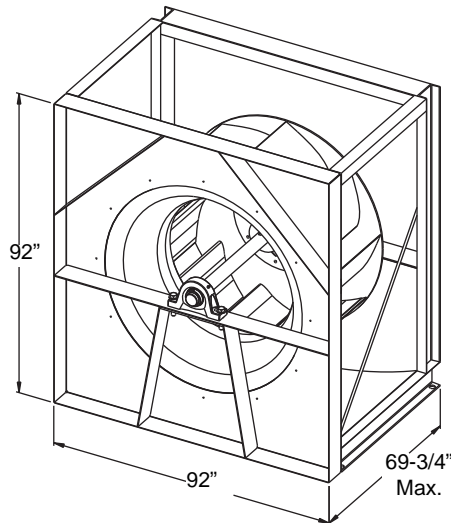
660 PLC



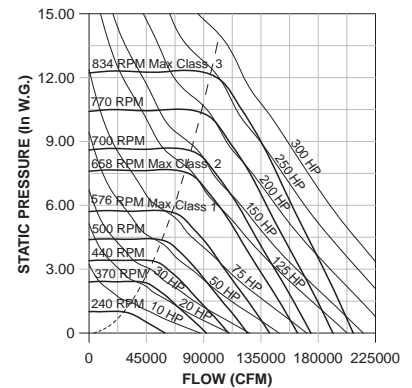
730 PLC

Wheel Diameter - 73"
Wheel Type - Airfoil
Tip Speed (FPM) = 19.11 x RPM
Max. BHP = 446.6 x (RPM/1000)³
Inlet Area - 31.95 Sq. Ft.
Outlet Area - 42.03 Sq. Ft.
Outlet Velocity (FPM) = CFM/42.03

Class I Max. RPM - 576
Class II Max. RPM - 658
Class III Max. RPM - 834



730 PLC



660 PLC

CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
22700	660	265	4.72																
31000	902	287	6.39																
39300	1143	317	8.20	391	16.0	459	24.5												
47600	1385	352	10.6	419	19.7	477	29.1	533	39.0										
55900	1627	389	13.7	450	23.4	505	34.7	554	45.7	601	56.8	650	69.7						
64200	1868	426	17.2	485	28.2	534	39.8	582	53.1	625	65.8	666	78.3	750	107				
72500	2110	464	21.2	521	33.7	568	46.3	611	59.9	653	74.9	692	89.6	764	118	839	150		
80800	2351	503	25.9	558	40.1	603	53.7	644	68.2	682	83.4	720	100	790	133	854	164	921	200
89100	2593	543	31.3	595	47.1	639	62.2	678	77.4	714	93.3	749	110	817	147	879	183	937	217
97400	2835	584	37.6	633	54.9	676	71.6	714	88.1	749	105	782	123	845	161	906	201		
105700	3076	625	44.7	671	63.4	713	81.9	751	100	785	118	816	136	876	175	934	218		
114100	3321	667	52.8	710	72.9	751	93.1	788	113	821	132	852	152	909	192				
122500	3565	710	62.3	751	83.8	789	105	825	127	858	148	889	169	944	211				
130900	3810	753	72.7	791	95.4	828	119	863	142	896	165	926	187						
139300	4054	796	84.2	833	109	868	133	902	158	933	182								
147700	4299	841	98.0	875	123	908	149	941	176										
156100	4543	885	113	917	139	949	167												
164500	4788	928	128	959	156														

730 PLC

CFM	OV	1.00 SP		2.00 SP		3.00 SP		4.00 SP		5.00 SP		6.00 SP		8.00 SP		10.00 SP		12.00 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
27700	659	240	5.80																
37350	888	258	7.69																
47000	1118	284	9.82	351	19.1														
56650	1347	313	12.5	375	23.5	428	34.6	480	46.7										
66300	1577	345	15.9	401	27.7	451	41.0	496	54.0	540	67.6								
75950	1807	376	19.8	430	32.8	476	47.1	520	62.9	559	77.6	597	92.6						
85600	2036	409	24.4	461	39.1	504	54.1	544	70.7	583	88.6	618	105	686	139				
95300	2267	442	29.5	492	46.0	534	62.4	571	79.5	607	98.2	642	118	705	156	766	194		
105000	2498	476	35.5	524	53.9	565	71.9	601	90.2	634	109	666	130	729	174	785	214		
114700	2729	511	42.4	557	62.8	597	82.7	631	102	663	122	694	143	753	190	809	237		
124400	2960	546	50.0	590	72.4	628	93.8	663	115	694	137	723	159	778	205	832	257		
134100	3190	583	59.3	623	82.8	661	107	694	129	725	152	753	175	806	224				
143800	3421	619	69.2	657	94.5	693	120	726	145	756	169	784	194						
153500	3652	656	80.7	692	108	726	135	758	161	788	188	815	214						
163200	3883	692	92.8	727	122	759	150	791	179	820	208								
172900	4114	730	107	762	137	793	167	823	198										
182600	4344	767	123	798	154	828	186												
192300	4575	805	140	834	173														

Performance certified is for Installation Type A: Free Inlet, Free Outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

120-135 PLC Sound Data

120 PLC

RPM	SP	Condition	Sound Power re 10^{-12} Watts								L_{wA}
			Octave Bands								
			1	2	3	4	5	6	7	8	
1700	1.00	Inlet	65	69	76	65	59	59	64	58	71
		Outlet	83	80	82	74	72	73	71	64	80
2000	1.00	Inlet	68	71	80	72	65	63	74	66	78
		Outlet	84	80	84	78	74	75	78	69	83
2300	1.00	Inlet	71	74	82	79	70	66	78	73	82
		Outlet	84	81	85	83	77	75	82	74	87
	2.00	Inlet	74	76	81	76	67	63	69	66	78
		Outlet	93	91	89	84	79	80	80	73	88
2600	1.00	Inlet	74	78	83	84	75	70	79	79	86
		Outlet	83	83	87	87	80	77	84	79	89
	2.00	Inlet	73	77	84	83	72	68	75	72	83
		Outlet	93	92	91	88	81	81	82	77	90
2900	1.00	Inlet	76	81	85	88	79	74	80	83	89
		Outlet	84	86	88	91	84	80	85	84	92
	3.00	Inlet	77	81	85	87	75	70	73	74	86
		Outlet	96	98	95	94	85	84	85	81	95
3200	1.00	Inlet	78	83	87	92	83	77	80	87	92
		Outlet	85	89	90	95	87	83	85	89	96
	4.00	Inlet	80	85	87	91	78	72	72	75	89
		Outlet	99	102	99	99	89	87	87	84	99
3500	1.00	Inlet	79	86	88	94	86	79	80	90	95
		Outlet	87	92	92	98	90	85	86	93	98
	5.00	Inlet	82	88	89	93	81	74	73	76	91
		Outlet	101	106	103	101	91	89	90	87	102
3800	1.00	Inlet	81	88	89	96	89	82	81	93	97
		Outlet	88	95	93	99	92	88	87	96	100
	4.00	Inlet	79	87	89	97	86	78	77	86	95
		Outlet	98	104	100	101	92	88	90	90	101
	6.00	Inlet	84	91	90	94	83	76	74	78	93
		Outlet	102	109	105	103	94	91	92	89	104
4100	1.00	Inlet	82	90	91	97	92	84	81	95	99
		Outlet	89	97	94	101	95	90	87	98	102
	4.00	Inlet	81	89	91	98	89	81	78	90	97
		Outlet	97	105	99	101	94	90	90	94	102
	6.00	Inlet	83	91	91	97	87	79	76	84	95
		Outlet	102	110	105	103	95	91	93	92	104
4400	1.00	Inlet	83	91	92	98	95	86	82	96	100
		Outlet	90	98	96	102	97	92	89	100	104
	4.00	Inlet	82	90	92	99	92	84	80	92	99
		Outlet	96	104	100	102	97	91	90	96	103
	6.00	Inlet	82	90	92	99	91	82	78	88	98
		Outlet	102	110	105	104	97	92	93	94	105
	8.00	Inlet	86	94	94	97	89	80	76	81	96
		Outlet	105	113	110	106	98	94	95	93	107
4700	2.00	Inlet	84	92	94	99	97	88	84	95	101
		Outlet	92	100	98	103	99	93	90	99	105
	5.00	Inlet	83	91	94	100	95	86	81	92	100
		Outlet	99	107	103	104	99	93	92	97	105
	8.00	Inlet	86	94	95	99	93	83	79	85	99
		Outlet	105	113	110	107	101	95	96	95	108

135 PLC

RPM	SP	Condition	Sound Power re 10^{-12} Watts								L_{wA}
			Octave Bands								
			1	2	3	4	5	6	7	8	
1400	1.00	Inlet	62	68	76	62	59	54	49	44	69
		Outlet	70	67	78	74	67	60	54	49	74
1600	1.00	Inlet	67	70	77	69	64	61	58	54	72
		Outlet	72	72	80	78	73	67	63	59	79
1800	1.00	Inlet	71	73	78	74	68	66	64	61	76
		Outlet	75	76	82	82	77	73	69	66	83
2000	1.00	Inlet	75	75	79	78	71	69	68	67	79
		Outlet	78	78	83	85	80	77	74	71	86
	2.00	Inlet	75	75	81	79	68	65	60	55	79
		Outlet	80	79	82	85	79	72	66	60	85
2200	1.00	Inlet	78	77	81	82	74	72	72	71	82
		Outlet	81	80	85	89	83	80	77	75	89
	2.00	Inlet	78	77	82	83	71	69	65	62	82
		Outlet	82	82	83	89	82	76	71	67	88
2400	1.00	Inlet	81	78	83	85	77	74	75	74	85
		Outlet	84	81	86	91	86	83	80	78	92
	2.00	Inlet	81	78	84	86	74	72	70	67	85
		Outlet	85	83	85	91	85	80	75	72	91
	3.00	Inlet	81	78	84	88	72	70	65	60	86
		Outlet	85	85	83	91	84	77	70	64	90
2600	1.00	Inlet	86	82	87	94	88	85	82	81	94
		Outlet	87	87	91	91	84	81	88	84	93
	3.00	Inlet	84	80	85	91	75	73	69	65	89
		Outlet	87	87	84	94	87	81	75	70	93
2800	1.00	Inlet	85	83	87	89	82	78	79	79	90
		Outlet	87	85	89	95	90	87	84	83	96
	2.00	Inlet	85	83	86	90	80	77	76	74	89
		Outlet	88	87	88	95	89	86	82	80	95
	4.00	Inlet	85	83	86	93	78	74	69	64	91
		Outlet	88	90	86	95	89	82	76	70	95
3200	1.00	Inlet	87	87	89	92	87	82	82	83	93
		Outlet	90	89	91	98	95	91	88	87	100
	3.00	Inlet	88	87	89	93	85	80	78	76	92
		Outlet	91	92	91	98	94	89	85	82	98
	5.00	Inlet	88	87	89	95	84	78	74	69	93
		Outlet	91	93	90	98	94	87	80	74	98
3600	1.00	Inlet	89	91	92	94	91	86	85	86	96
		Outlet	92	94	94	100	99	94	92	90	103
	4.00	Inlet	90	91	91	95	90	83	81	79	95
		Outlet	93	95	94	99	98	92	88	84	101
	6.00	Inlet	90	91	91	97	90	81	78	73	96
		Outlet	93	97	94	99	98	91	85	79	101
4000	3.00	Inlet	91	95	93	96	94	87	85	85	98
		Outlet	94	98	96	101	101	96	93	90	105
	5.00	Inlet	91	95	93	97	94	86	83	81	98
		Outlet	94	99	97	100	101	95	91	87	104
8.00	Inlet	91	95	93	99	95	83	80	75	99	
	Outlet	94	100	98	99	101	94	87	81	103	

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. The A-weighted sound ratings shown has been calculated per AMCA Standard 301. Values shown are for inlet L_{wi} , L_{wiA} and outlet L_{wo} , L_{woA} sound power levels for Installation Type A: free inlet, free outlet. Ratings do not include effects of duct end correction.

150 PLC

RPM	SP	Condition	Sound Power re 10 ⁻¹² Watts								L _{wA}
			Octave Bands								
			1	2	3	4	5	6	7	8	
1400	1.00	Inlet	66	72	78	66	63	60	56	53	72
		Outlet	73	72	82	77	72	66	61	57	78
1600	1.00	Inlet	71	74	79	73	68	66	64	61	76
		Outlet	76	76	84	81	77	72	69	66	83
1800	1.00	Inlet	75	77	81	78	72	70	69	67	80
		Outlet	79	80	86	85	80	77	74	72	86
	2.00	Inlet	75	77	84	78	68	65	60	55	79
		Outlet	81	79	85	85	79	72	66	60	85
2000	1.00	Inlet	79	79	83	82	75	73	73	72	83
		Outlet	82	82	87	89	84	81	78	76	90
	2.00	Inlet	79	79	84	82	72	70	66	63	82
		Outlet	83	83	86	89	82	77	72	67	88
2200	1.00	Inlet	82	81	85	85	78	76	76	76	86
		Outlet	85	83	88	92	87	84	81	80	93
	3.00	Inlet	82	81	86	87	73	71	66	61	86
		Outlet	86	86	86	92	85	78	72	66	91
2400	1.00	Inlet	85	82	87	89	80	78	79	79	89
		Outlet	87	84	90	95	89	86	84	83	95
	3.00	Inlet	85	82	87	90	77	74	71	67	89
		Outlet	89	88	87	95	88	82	77	72	94
2600	1.00	Inlet	88	84	89	91	82	80	81	81	91
		Outlet	90	86	91	98	91	89	86	85	98
	2.00	Inlet	88	84	89	92	81	79	78	76	91
		Outlet	91	88	90	97	90	87	84	81	97
	4.00	Inlet	88	84	89	95	78	76	71	67	92
		Outlet	91	91	87	97	90	84	77	72	96
2800	1.00	Inlet	89	86	90	93	85	82	82	83	93
		Outlet	92	88	92	99	94	91	88	87	100
	3.00	Inlet	89	86	90	94	83	80	78	75	93
		Outlet	92	91	91	99	93	88	84	81	98
	5.00	Inlet	89	86	90	97	81	77	72	67	94
		Outlet	92	94	89	99	93	86	79	73	98
3000	1.00	Inlet	90	89	92	94	88	84	84	85	95
		Outlet	93	91	94	100	96	93	90	89	101
	3.00	Inlet	90	89	91	95	86	82	80	79	94
		Outlet	93	93	93	100	95	90	87	84	100
	5.00	Inlet	90	89	91	97	85	80	76	72	95
		Outlet	93	95	92	100	95	89	82	77	100
3200	1.00	Inlet	91	91	93	95	90	86	86	87	96
		Outlet	94	93	95	101	98	95	92	91	103
	4.00	Inlet	92	91	93	96	88	83	81	79	96
		Outlet	95	96	95	101	97	92	87	84	102
	6.00	Inlet	92	91	93	98	88	81	77	73	97
		Outlet	95	97	94	101	97	90	84	78	101
3600	8.00	Inlet	94	95	95	101	93	84	80	75	99
		Outlet	97	101	98	102	101	94	87	81	104

165 PLC

RPM	SP	Condition	Sound Power re 10 ⁻¹² Watts								L _{wA}
			Octave Bands								
			1	2	3	4	5	6	7	8	
1200	1.00	Inlet	66	73	77	63	61	57	53	49	71
		Outlet	72	72	81	75	69	63	58	53	77
1400	1.00	Inlet	70	75	81	70	67	65	62	59	75
		Outlet	75	76	85	80	75	71	67	64	82
1600	1.00	Inlet	75	78	82	76	72	70	68	67	79
		Outlet	79	80	87	85	80	77	74	71	86
	2.00	Inlet	75	78	85	75	68	64	59	54	79
		Outlet	81	79	87	85	77	71	64	58	85
1800	1.00	Inlet	79	80	84	81	75	74	73	72	83
		Outlet	82	83	89	88	84	81	78	77	90
	2.00	Inlet	79	80	86	81	72	70	66	62	82
		Outlet	84	83	89	88	82	77	72	67	88
2000	1.00	Inlet	82	82	86	85	78	77	77	77	86
		Outlet	85	84	90	92	87	84	82	80	93
	3.00	Inlet	82	82	88	86	74	71	66	61	85
		Outlet	87	86	89	92	85	78	72	66	91
2200	1.00	Inlet	86	84	88	88	81	79	80	80	89
		Outlet	88	86	92	95	90	87	84	84	96
	3.00	Inlet	86	84	89	90	77	75	71	68	88
		Outlet	90	89	90	95	88	83	77	73	94
2400	1.00	Inlet	89	86	90	92	83	81	82	83	92
		Outlet	91	88	93	98	92	89	87	86	99
	2.00	Inlet	89	86	90	92	82	80	79	78	91
		Outlet	92	90	93	98	91	88	85	83	98
	4.00	Inlet	89	86	91	94	79	77	72	68	92
		Outlet	92	92	90	98	91	84	78	73	97
2600	1.00	Inlet	91	87	92	94	86	83	84	85	94
		Outlet	94	89	94	101	95	92	89	89	101
	3.00	Inlet	92	87	92	95	83	81	79	77	94
		Outlet	95	92	93	100	93	89	85	82	100
	5.00	Inlet	92	87	92	98	81	78	74	69	96
		Outlet	95	95	90	100	93	86	80	74	99
2800	1.00	Inlet	92	90	94	96	88	85	86	87	96
		Outlet	95	92	96	102	97	94	91	91	103
	4.00	Inlet	93	90	93	97	86	82	80	77	96
		Outlet	96	95	94	102	96	91	86	82	101
	6.00	Inlet	93	90	93	100	84	80	75	70	97
		Outlet	96	97	92	102	96	89	82	76	101
3000	1.00	Inlet	94	92	95	97	91	87	87	89	98
		Outlet	97	94	97	103	99	96	93	93	105
	4.00	Inlet	94	92	95	98	89	85	83	81	97
		Outlet	97	97	97	103	98	93	89	86	103
	6.00	Inlet	94	92	95	100	88	83	79	75	98
		Outlet	97	99	95	103	98	92	85	80	103
3200	2.00	Inlet	95	95	96	98	93	88	88	88	99
		Outlet	97	97	98	104	101	97	94	92	106
	5.00	Inlet	95	95	96	99	91	86	84	81	99
		Outlet	98	99	98	104	100	95	90	86	105
	8.00	Inlet	95	95	96	102	90	83	79	74	100
		Outlet	98	101	97	104	100	93	86	79	104

The sound power level ratings shown are in decibels referred to 10⁻¹² watts calculated per AMCA Standard 301. The A-weighted sound ratings shown has been calculated per AMCA Standard 301. Values shown are for inlet L_{wi}, L_{wiA} and outlet L_{wo}, L_{woA} sound power levels for Installation Type A: free inlet, free outlet. Ratings do not include effects of duct end correction.

180-195 PLC Sound Data

180 PLC

RPM	SP	Condition	Sound Power re 10^{-12} Watts								L_{wA}
			Octave Bands								
			1	2	3	4	5	6	7	8	
1200	1.00	Inlet	76	81	79	71	66	65	61	53	75
		Outlet	75	81	83	77	72	71	66	58	80
1600	1.00	Inlet	79	86	91	80	75	75	78	73	86
		Outlet	78	86	93	86	82	80	83	77	90
	2.00	Inlet	81	85	87	77	72	72	72	65	82
		Outlet	82	86	91	84	79	76	74	68	87
2000	1.00	Inlet	81	88	96	87	81	80	86	86	93
		Outlet	81	89	98	93	88	86	91	90	97
	3.00	Inlet	85	87	91	82	76	76	80	74	87
		Outlet	85	88	95	88	84	80	82	77	91
2400	1.00	Inlet	84	91	98	95	87	85	89	91	97
		Outlet	85	92	100	100	94	91	94	96	102
	3.00	Inlet	86	91	98	93	84	81	85	84	95
		Outlet	84	91	99	97	91	87	90	88	99
	5.00	Inlet	88	92	93	88	81	81	83	79	91
		Outlet	93	96	99	96	89	85	82	79	96
2800	1.00	Inlet	87	94	100	101	92	89	91	95	102
		Outlet	87	95	102	105	99	96	97	100	107
	4.00	Inlet	89	95	100	101	89	85	87	88	100
		Outlet	87	94	101	104	95	91	92	93	103
	6.00	Inlet	91	96	98	97	86	84	85	85	97
		Outlet	91	96	100	102	93	89	88	86	101
3200	1.00	Inlet	89	97	102	106	96	93	93	98	106
		Outlet	90	97	104	110	102	99	99	103	110
	4.00	Inlet	90	97	102	108	94	90	90	95	106
		Outlet	89	97	104	110	100	96	95	99	109
	6.00	Inlet	92	99	101	106	92	87	88	91	104
		Outlet	89	96	101	108	98	94	93	95	107
3600	1.00	Inlet	93	99	100	102	90	86	87	89	101
		Outlet	94	100	102	107	97	93	90	90	106
	4.00	Inlet	91	99	104	111	98	93	93	99	110
		Outlet	91	99	106	114	104	100	98	103	113
4000	2.00	Inlet	93	101	106	111	102	98	96	102	111
		Outlet	94	101	107	115	109	105	102	107	115
	5.00	Inlet	93	101	106	113	102	96	95	101	112
		Outlet	93	101	107	115	108	103	100	105	115
4800	8.00	Inlet	95	103	105	112	100	94	92	98	110
		Outlet	93	101	105	113	106	101	98	102	113
	10.00	Inlet	97	104	105	111	99	92	91	96	109
		Outlet	93	101	104	112	104	99	96	101	111
12.00	Inlet	97	105	105	108	97	92	91	95	107	
	Outlet	97	104	106	111	104	99	95	97	111	

195 PLC

RPM	SP	Condition	Sound Power re 10^{-12} Watts								L_{wA}
			Octave Bands								
			1	2	3	4	5	6	7	8	
1000	1.00	Inlet	78	80	76	68	63	62	55	48	72
		Outlet	80	82	82	74	71	66	60	52	78
1200	1.00	Inlet	78	80	76	68	63	62	55	48	72
		Outlet	77	84	86	80	75	75	71	63	83
1400	1.00	Inlet	80	87	88	79	74	75	76	69	84
		Outlet	79	87	91	85	80	80	80	74	89
	2.00	Inlet	82	85	84	76	72	71	69	62	80
		Outlet	85	88	89	83	78	74	70	65	85
1600	1.00	Inlet	81	88	95	83	78	78	83	78	90
		Outlet	81	89	96	89	84	83	87	83	94
	2.00	Inlet	83	87	92	79	74	74	76	69	86
		Outlet	80	86	93	85	81	79	81	73	89
1800	1.00	Inlet	82	89	97	85	81	81	87	85	93
		Outlet	82	90	100	92	88	86	91	89	97
	3.00	Inlet	86	88	91	80	76	77	80	73	87
		Outlet	87	89	96	87	83	80	80	75	91
2000	1.00	Inlet	84	91	98	89	84	83	89	89	95
		Outlet	84	92	101	95	91	88	94	93	100
	4.00	Inlet	88	91	91	84	79	79	82	76	89
		Outlet	92	93	98	91	86	82	81	77	94
2200	1.00	Inlet	86	93	99	94	87	85	90	92	98
		Outlet	86	94	102	99	94	91	95	96	103
	3.00	Inlet	88	92	99	92	84	82	86	84	95
		Outlet	86	92	100	96	90	87	91	88	99
5.00	Inlet	90	93	93	87	81	82	84	79	91	
	Outlet	95	97	100	95	89	84	82	79	96	
2400	1.00	Inlet	87	94	100	97	90	88	92	94	100
		Outlet	88	95	103	102	97	94	97	98	105
	4.00	Inlet	90	94	100	95	85	83	86	85	96
		Outlet	87	93	100	99	92	89	91	89	100
	6.00	Inlet	91	95	95	90	84	83	85	82	93
		Outlet	97	99	102	98	91	87	84	81	99
2800	1.00	Inlet	90	97	103	103	94	92	94	98	104
		Outlet	91	98	105	108	101	98	99	103	109
	4.00	Inlet	91	97	103	104	92	88	91	93	103
		Outlet	90	97	104	107	98	95	95	97	107
8.00	Inlet	94	99	99	97	88	86	88	87	98	
	Outlet	98	103	104	104	96	91	88	86	104	
3200	1.00	Inlet	92	99	105	108	98	95	96	101	108
		Outlet	93	100	107	113	105	102	101	106	113
	5.00	Inlet	93	100	105	110	96	92	92	97	108
		Outlet	92	100	106	112	102	98	97	101	111
10.00	Inlet	96	102	103	103	92	89	90	91	102	
	Outlet	99	105	106	109	99	95	92	90	108	
3600	2.00	Inlet	94	102	107	112	101	97	97	103	111
		Outlet	95	102	108	116	108	104	102	108	116
	6.00	Inlet	95	102	107	114	100	95	94	100	112
		Outlet	94	102	108	116	106	102	99	104	115
	12.00	Inlet	98	105	105	107	96	91	92	95	106
		Outlet	99	107	107	112	103	98	95	95	111

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. The A-weighted sound ratings shown has been calculated per AMCA Standard 301. Values shown are for inlet L_{wI} , L_{wIA} and outlet L_{wO} , L_{wOA} sound power levels for Installation Type A: free inlet, free outlet. Ratings do not include effects of duct end correction.

210 PLC

RPM	SP	Condition	Sound Power re 10 ⁻¹² Watts								L _w A
			Octave Bands								
			1	2	3	4	5	6	7	8	
900	1.00	Inlet	79	81	74	67	63	60	53	46	71
		Outlet	82	82	82	74	70	65	58	51	77
1200	1.00	Inlet	80	87	84	76	72	74	71	63	81
		Outlet	79	87	88	82	78	79	75	68	86
1500	1.00	Inlet	82	90	94	83	79	80	83	80	90
		Outlet	83	91	97	89	85	85	87	84	94
	2.00	Inlet	84	88	92	79	75	75	76	70	86
		Outlet	81	88	93	86	81	81	81	74	90
1800	1.00	Inlet	85	92	99	88	84	83	89	89	96
		Outlet	85	93	102	94	91	88	94	92	100
	2.00	Inlet	86	91	99	86	81	81	86	82	94
		Outlet	85	92	101	92	88	86	91	86	97
	4.00	Inlet	89	91	89	82	78	80	81	75	88
		Outlet	95	95	98	90	85	81	78	75	93
2100	1.00	Inlet	88	94	101	94	88	87	92	93	99
		Outlet	88	95	104	100	95	92	97	97	104
	3.00	Inlet	90	94	101	92	85	83	88	85	96
		Outlet	88	94	102	97	92	89	93	89	100
	5.00	Inlet	92	94	95	88	82	83	85	80	92
		Outlet	95	97	101	95	90	86	85	81	97
2400	1.00	Inlet	90	97	103	99	92	90	94	97	102
		Outlet	91	98	106	105	99	96	99	101	107
	4.00	Inlet	92	97	103	98	89	86	90	89	100
		Outlet	90	96	104	102	95	92	94	93	104
	6.00	Inlet	94	97	100	95	86	85	87	85	97
		Outlet	94	98	103	100	94	90	89	87	101
2700	1.00	Inlet	92	99	104	104	96	93	96	100	105
		Outlet	93	100	107	109	103	100	101	104	111
	4.00	Inlet	93	99	105	105	93	90	93	94	105
		Outlet	92	99	107	108	100	96	98	99	108
	8.00	Inlet	96	101	102	99	90	88	89	88	100
		Outlet	98	103	105	105	97	93	91	89	105
3000	1.00	Inlet	94	101	106	108	99	96	97	102	108
		Outlet	95	102	108	113	106	102	103	107	114
	4.00	Inlet	94	101	107	110	97	94	95	99	109
		Outlet	94	101	109	113	104	100	100	103	113
	6.00	Inlet	96	102	106	109	96	92	93	96	107
		Outlet	94	101	107	111	102	98	98	100	111
8.00	Inlet	98	103	105	107	94	90	91	92	106	
	Outlet	94	100	105	109	100	96	96	97	108	
3300	2.00	Inlet	96	103	108	112	101	98	98	103	112
		Outlet	96	103	110	116	108	104	103	108	116
	5.00	Inlet	96	103	108	115	100	96	96	101	113
		Outlet	96	103	110	117	106	102	101	105	116
10.00	Inlet	100	106	106	111	96	92	92	95	109	
	Outlet	96	103	106	113	102	98	97	99	112	
12.00	Inlet	100	106	106	107	95	92	93	94	106	
	Outlet	102	108	109	113	102	98	95	94	112	

225 PLC

RPM	SP	Condition	Sound Power re 10 ⁻¹² Watts								L _w A
			Octave Bands								
			1	2	3	4	5	6	7	8	
900	1.00	Inlet	80	83	76	69	65	64	57	49	74
		Outlet	81	84	83	75	72	69	62	54	79
1200	1.00	Inlet	82	89	87	78	74	77	75	68	84
		Outlet	82	90	90	85	80	82	79	73	89
	2.00	Inlet	84	86	83	75	73	72	68	61	80
		Outlet	87	90	89	83	78	74	70	65	85
1500	1.00	Inlet	84	92	96	85	81	83	86	86	93
		Outlet	85	93	99	91	87	87	91	89	97
	2.00	Inlet	86	90	94	82	78	79	81	76	89
		Outlet	84	91	96	88	84	84	85	80	93
	3.00	Inlet	87	89	88	79	77	78	78	71	86
		Outlet	90	93	95	87	83	79	77	73	91
1800	1.00	Inlet	88	94	101	90	86	85	92	92	98
		Outlet	88	95	104	97	93	91	96	95	102
	2.00	Inlet	88	94	102	89	84	83	89	86	97
		Outlet	88	95	104	95	91	89	94	90	100
4.00	Inlet	91	93	96	85	80	81	84	78	91	
	Outlet	92	94	101	92	88	84	85	80	96	
2100	1.00	Inlet	90	97	103	96	91	89	94	96	101
		Outlet	91	98	106	102	97	95	100	100	106
	4.00	Inlet	93	96	103	93	86	84	89	85	98
		Outlet	90	95	104	98	93	90	94	89	101
	6.00	Inlet	94	97	96	90	84	85	87	82	94
		Outlet	99	100	104	97	92	88	85	82	100
2400	1.00	Inlet	93	99	105	101	95	92	96	99	105
		Outlet	93	100	108	107	101	99	102	104	110
	3.00	Inlet	93	99	107	102	93	90	95	95	104
		Outlet	93	100	108	107	100	96	99	99	108
	5.00	Inlet	95	99	105	100	90	88	91	90	101
		Outlet	93	98	106	104	97	94	96	94	105
8.00	Inlet	97	100	100	95	88	88	90	86	98	
	Outlet	102	105	106	103	96	91	88	85	103	
2700	1.00	Inlet	95	101	107	106	98	95	98	102	108
		Outlet	95	102	109	111	105	102	103	107	113
	4.00	Inlet	95	102	108	107	96	93	96	98	107
		Outlet	95	102	109	111	103	99	100	102	111
	6.00	Inlet	97	102	107	106	94	91	93	94	105
		Outlet	95	101	107	109	101	97	98	98	109
8.00	Inlet	99	103	105	103	92	89	91	91	103	
	Outlet	96	101	106	107	99	95	95	94	107	
3000	10.00	Inlet	99	103	103	99	91	90	92	90	101
		Outlet	104	107	108	107	99	95	91	89	107
	3.00	Inlet	96	103	109	111	100	97	98	102	111
		Outlet	97	104	111	115	107	103	103	107	115
6.00	Inlet	98	104	109	112	98	95	96	99	110	
	Outlet	96	103	110	114	105	101	101	103	114	
10.00	Inlet	100	106	107	108	95	92	93	94	107	
	Outlet	98	104	108	111	102	98	97	97	110	
12.00	Inlet	100	106	106	104	95	92	94	93	105	
	Outlet	104	109	110	111	102	98	94	92	111	

The sound power level ratings shown are in decibels referred to 10⁻¹² watts calculated per AMCA Standard 301. The A-weighted sound ratings shown has been calculated per AMCA Standard 301. Values shown are for inlet L_{wi}, L_{wi}A and outlet L_{wo}, L_{wo}A sound power levels for Installation Type A: free inlet, free outlet. Ratings do not include effects of duct end correction.

245-270 PLC Sound Data

245 PLC

RPM	SP	Condition	Sound Power re 10^{-12} Watts								L_{wA}
			Octave Bands								
			1	2	3	4	5	6	7	8	
750	1.00	Inlet	78	75	72	63	60	57	50	44	68
		Outlet	78	80	75	70	66	63	56	49	73
850	1.00	Inlet	75	77	76	65	65	67	59	53	73
		Outlet	74	83	79	72	70	72	64	56	77
1050	1.00	Inlet	78	82	83	75	72	73	70	62	80
		Outlet	78	87	88	81	78	78	75	65	85
	2.00	Inlet	85	84	81	74	69	66	61	55	77
		Outlet	86	88	86	80	76	71	66	59	83
1250	1.00	Inlet	79	84	92	80	79	79	79	70	88
		Outlet	80	90	95	87	84	83	83	73	92
	2.00	Inlet	80	84	82	77	73	75	74	65	82
		Outlet	80	90	94	85	80	79	80	69	89
1450	1.00	Inlet	81	85	95	86	83	83	82	76	91
		Outlet	84	90	98	92	89	88	87	81	96
	3.00	Inlet	83	87	89	82	78	77	76	69	86
		Outlet	86	92	96	89	84	81	80	73	92
1650	1.00	Inlet	84	83	100	89	86	86	85	80	95
		Outlet	89	90	102	96	93	91	90	86	100
	5.00	Inlet	95	94	97	87	82	80	76	71	91
		Outlet	98	99	100	93	88	84	80	75	96
1850	1.00	Inlet	86	86	101	94	90	89	88	84	98
		Outlet	91	93	103	100	96	94	93	89	103
	4.00	Inlet	87	87	99	90	86	85	84	79	95
		Outlet	91	93	102	96	92	89	88	83	99
	6.00	Inlet	95	95	99	91	85	83	80	75	94
		Outlet	98	100	102	97	92	87	84	79	99
2050	1.00	Inlet	88	89	101	98	92	91	90	87	100
		Outlet	93	96	104	103	99	97	96	92	105
	4.00	Inlet	89	89	100	95	89	89	88	84	98
		Outlet	93	95	103	100	96	94	92	88	102
	6.00	Inlet	88	90	99	94	87	85	85	81	96
		Outlet	93	96	103	99	94	90	89	84	101
2250	1.00	Inlet	89	92	101	102	95	93	93	90	103
		Outlet	94	98	105	107	102	99	98	95	108
	4.00	Inlet	91	92	100	100	93	92	91	87	101
		Outlet	94	97	103	104	99	97	96	92	105
	8.00	Inlet	93	96	101	98	90	88	86	82	99
		Outlet	97	101	105	103	97	92	90	86	104
2450	1.00	Inlet	90	94	101	105	97	96	95	92	105
		Outlet	96	100	106	109	104	101	100	98	110
	5.00	Inlet	92	95	100	103	95	93	93	90	103
		Outlet	96	100	104	107	101	99	98	94	108
	10.00	Inlet	97	101	103	101	93	90	88	84	102
		Outlet	101	105	107	106	99	95	91	88	106
2650	1.00	Inlet	92	96	101	109	100	97	96	94	108
		Outlet	97	102	106	112	106	104	102	100	113
	4.00	Inlet	93	97	100	107	98	96	96	93	107
		Outlet	97	102	105	110	104	102	101	98	111
	12.00	Inlet	100	104	105	105	95	92	90	86	104
		Outlet	103	108	109	109	102	97	93	90	109

270 PLC

RPM	SP	Condition	Sound Power re 10^{-12} Watts								L_{wA}
			Octave Bands								
			1	2	3	4	5	6	7	8	
750	1.00	Inlet	75	77	75	65	65	66	57	51	72
		Outlet	76	83	78	71	70	70	62	54	77
850	1.00	Inlet	79	80	79	70	69	71	64	57	77
		Outlet	78	87	83	77	74	75	69	60	82
950	1.00	Inlet	80	83	83	75	73	74	70	61	81
		Outlet	80	88	87	81	79	79	74	64	86
	2.00	Inlet	87	84	81	74	69	66	60	55	77
		Outlet	88	88	86	80	76	71	66	59	83
1050	1.00	Inlet	81	86	87	79	77	77	75	66	84
		Outlet	81	90	92	85	82	82	79	69	89
	2.00	Inlet	83	84	82	76	72	72	68	61	80
		Outlet	84	90	90	83	79	77	73	64	86
1150	1.00	Inlet	81	87	92	81	80	80	79	70	88
		Outlet	83	92	95	88	85	84	83	73	92
	3.00	Inlet	91	90	87	79	74	71	66	61	83
		Outlet	94	94	91	86	81	76	71	65	88
1350	1.00	Inlet	83	88	96	87	85	85	83	77	93
		Outlet	86	93	99	93	90	90	88	82	97
	4.00	Inlet	93	93	92	84	80	77	73	68	88
		Outlet	96	98	96	90	86	81	77	72	93
1550	1.00	Inlet	86	87	101	91	88	88	86	81	97
		Outlet	91	93	103	97	94	93	91	87	101
	3.00	Inlet	87	87	99	88	85	85	83	78	94
		Outlet	91	93	102	94	91	89	88	82	98
	5.00	Inlet	94	93	98	88	84	82	79	73	92
		Outlet	97	98	101	94	89	85	82	77	97
1750	1.00	Inlet	89	88	104	95	91	91	89	85	100
		Outlet	93	95	106	101	98	96	95	91	105
	4.00	Inlet	89	88	102	92	88	87	87	81	97
		Outlet	93	95	105	98	94	92	91	85	101
	6.00	Inlet	94	94	101	91	87	84	83	77	96
		Outlet	97	99	105	97	93	88	86	81	100
1950	1.00	Inlet	90	91	104	99	94	93	92	88	102
		Outlet	95	98	107	105	101	99	98	94	107
	4.00	Inlet	92	91	103	97	91	91	90	86	100
		Outlet	95	97	105	102	98	96	95	90	105
	8.00	Inlet	99	99	103	96	90	87	85	80	99
		Outlet	102	104	107	101	96	91	88	84	103
2150	1.00	Inlet	92	94	104	103	97	95	94	91	105
		Outlet	97	100	108	108	104	101	100	97	110
	5.00	Inlet	94	94	103	101	94	93	92	88	102
		Outlet	97	100	106	105	100	98	97	93	107
	10.00	Inlet	102	104	105	100	93	90	87	82	101
		Outlet	105	108	109	105	99	94	90	86	106
2350	5.00	Inlet	95	97	103	105	97	96	95	92	105
		Outlet	99	102	107	108	103	101	100	97	110
	10.00	Inlet	95	99	104	103	94	92	91	87	103
		Outlet	100	104	108	107	101	97	94	91	108
	12.00	Inlet	104	106	107	103	95	92	89	85	104
		Outlet	107	110	111	108	102	97	93	89	109

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. The A-weighted sound ratings shown has been calculated per AMCA Standard 301. Values shown are for inlet L_{wI} , $L_{wI}A$ and outlet L_{wO} , $L_{wO}A$ sound power levels for Installation Type A: free inlet, free outlet. Ratings do not include effects of duct end correction.

300 PLC

RPM	SP	Condition	Sound Power re 10 ⁻¹² Watts								L _w A
			Octave Bands								
			1	2	3	4	5	6	7	8	
600	1.00	Inlet	79	76	71	64	59	55	48	42	67
		Outlet	81	80	75	70	66	61	54	47	73
700	1.00	Inlet	78	79	76	67	68	67	59	53	74
		Outlet	78	85	79	73	72	72	64	56	78
800	1.00	Inlet	81	82	81	72	72	73	66	58	79
		Outlet	81	89	85	79	77	77	71	61	84
900	1.00	Inlet	82	86	85	77	76	77	72	63	83
		Outlet	83	91	89	84	81	81	76	66	88
	2.00	Inlet	86	84	82	75	71	70	64	58	79
		Outlet	88	90	87	82	78	75	69	62	85
1000	1.00	Inlet	82	89	89	81	80	80	77	68	87
		Outlet	85	93	94	87	85	84	81	71	92
	2.00	Inlet	84	84	82	77	75	76	72	63	82
		Outlet	85	92	92	85	81	80	77	67	89
1100	1.00	Inlet	83	90	93	84	83	83	81	73	90
		Outlet	86	95	97	90	88	87	85	77	95
	3.00	Inlet	90	90	87	81	77	75	71	65	84
		Outlet	92	95	94	88	83	80	76	69	90
1200	1.00	Inlet	84	90	96	86	85	85	83	77	93
		Outlet	87	95	99	93	91	90	88	81	98
	4.00	Inlet	95	95	92	84	80	77	72	67	88
		Outlet	98	99	96	90	86	81	76	71	93
1300	1.00	Inlet	85	91	98	89	87	87	85	80	95
		Outlet	90	96	101	96	93	92	90	85	100
	4.00	Inlet	90	93	94	85	82	81	78	71	90
		Outlet	94	98	99	92	88	84	82	76	95
1500	1.00	Inlet	89	90	104	93	91	90	88	84	99
		Outlet	94	96	106	100	97	95	94	90	104
	4.00	Inlet	89	91	101	90	87	86	85	79	96
		Outlet	94	96	104	96	93	90	89	83	100
	6.00	Inlet	98	98	100	90	86	84	80	75	95
		Outlet	102	102	103	97	92	87	84	79	99
1700	1.00	Inlet	92	91	108	97	94	93	92	88	103
		Outlet	97	98	110	104	100	98	98	93	107
	4.00	Inlet	93	90	106	94	91	91	90	84	100
		Outlet	97	97	108	100	97	96	94	89	104
	8.00	Inlet	104	102	104	94	90	87	83	78	99
		Outlet	106	106	107	100	96	91	87	82	103
1900	1.00	Inlet	94	94	108	102	97	96	95	91	105
		Outlet	99	101	111	107	104	101	100	97	110
	5.00	Inlet	95	94	106	99	94	93	92	88	102
		Outlet	99	100	109	104	100	98	97	92	107
	10.00	Inlet	106	105	106	98	93	90	86	82	102
		Outlet	108	109	110	104	99	94	90	85	106
2100	1.00	Inlet	95	97	108	106	100	98	97	94	107
		Outlet	100	103	111	111	106	104	103	100	113
	5.00	Inlet	97	97	106	103	97	97	96	92	105
		Outlet	100	102	109	108	103	102	101	97	110
	12.00	Inlet	107	107	108	102	95	93	89	85	104
		Outlet	109	111	112	107	102	97	93	89	109

330 PLC

RPM	SP	Condition	Sound Power re 10 ⁻¹² Watts								L _w A
			Octave Bands								
			1	2	3	4	5	6	7	8	
550	1.00	Inlet	79	77	70	64	60	55	49	43	68
		Outlet	82	80	75	71	67	61	55	47	73
650	1.00	Inlet	79	80	76	68	69	68	60	54	75
		Outlet	81	86	80	75	74	73	65	56	80
750	1.00	Inlet	83	84	81	74	74	74	67	59	80
		Outlet	84	91	86	81	79	79	72	62	85
850	1.00	Inlet	84	89	86	79	78	79	73	65	85
		Outlet	86	94	91	85	83	83	77	67	90
	2.00	Inlet	86	84	82	76	74	73	67	60	80
		Outlet	88	92	89	83	79	78	72	63	86
950	1.00	Inlet	84	92	90	83	82	82	79	70	89
		Outlet	87	95	95	89	87	86	82	73	94
	3.00	Inlet	93	90	86	80	75	72	67	62	83
		Outlet	96	94	92	87	82	77	72	65	89
1050	1.00	Inlet	85	93	94	86	85	85	82	75	92
		Outlet	88	97	98	92	90	90	87	79	97
	3.00	Inlet	88	91	88	82	79	78	75	67	86
		Outlet	91	97	95	89	85	83	79	71	92
1150	1.00	Inlet	86	94	97	89	87	87	84	79	94
		Outlet	90	98	101	95	93	92	89	84	99
	4.00	Inlet	92	95	92	85	82	80	76	70	89
		Outlet	96	99	98	92	87	84	80	74	94
1250	1.00	Inlet	87	94	99	91	89	89	86	81	96
		Outlet	92	98	103	98	95	94	91	87	102
	5.00	Inlet	96	97	96	88	85	82	78	73	92
		Outlet	100	102	100	94	89	86	82	77	97
1350	1.00	Inlet	89	94	102	93	91	91	88	84	99
		Outlet	95	99	105	100	97	96	94	89	104
	4.00	Inlet	90	93	99	90	87	86	85	78	95
		Outlet	95	99	103	96	93	91	88	83	100
	6.00	Inlet	100	100	99	90	87	84	80	75	95
		Outlet	103	104	103	97	92	87	83	79	99
1550	1.00	Inlet	93	94	108	97	95	94	92	88	103
		Outlet	98	100	110	104	101	99	98	94	108
	4.00	Inlet	94	93	106	94	92	92	90	85	101
		Outlet	98	99	108	101	98	96	95	89	105
	8.00	Inlet	104	103	104	94	90	88	84	79	99
		Outlet	107	107	107	101	96	91	87	83	103
1750	1.00	Inlet	96	95	111	101	98	97	96	92	106
		Outlet	101	102	113	108	104	102	101	97	111
	5.00	Inlet	97	95	109	98	95	95	93	88	104
		Outlet	101	101	111	104	101	99	98	93	108
	10.00	Inlet	106	105	108	98	93	91	87	82	102
		Outlet	109	110	111	104	99	94	91	86	107
1950	6.00	Inlet	99	98	109	103	98	97	96	92	106
		Outlet	103	104	112	108	104	102	101	96	111
	10.00	Inlet	98	100	109	101	95	93	93	88	104
		Outlet	103	105	112	107	101	97	96	92	109
	12.00	Inlet	107	106	110	102	96	94	91	86	105
		Outlet	110	111	113	108	102	98	94	90	110

The sound power level ratings shown are in decibels referred to 10⁻¹² watts calculated per AMCA Standard 301. The A-weighted sound ratings shown has been calculated per AMCA Standard 301. Values shown are for inlet L_{wi}, L_{wi}A and outlet L_{wo}, L_{wo}A sound power levels for Installation Type A: free inlet, free outlet. Ratings do not include effects of duct end correction.

365-402 PLC Sound Data

365 PLC

RPM	SP	Condition	Sound Power re 10 ⁻¹² Watts								L _w A
			Octave Bands								
			1	2	3	4	5	6	7	8	
500	1.00	Inlet	79	77	70	65	61	56	50	44	68
		Outlet	83	81	75	71	67	62	55	48	74
600	1.00	Inlet	81	82	76	70	71	69	61	54	76
		Outlet	84	87	81	76	76	74	65	56	81
700	1.00	Inlet	84	87	82	76	76	76	68	60	82
		Outlet	87	92	87	82	81	81	73	63	87
	2.00	Inlet	89	86	81	74	70	66	60	54	78
		Outlet	92	90	86	81	76	71	65	58	83
800	1.00	Inlet	86	92	87	81	81	81	75	66	87
		Outlet	89	96	92	87	85	85	79	69	92
	2.00	Inlet	87	84	83	77	76	76	69	61	82
		Outlet	90	94	90	84	81	81	74	64	88
900	1.00	Inlet	86	95	91	85	85	84	80	72	91
		Outlet	90	98	96	91	89	89	84	76	96
	2.00	Inlet	86	90	86	82	81	81	76	68	87
		Outlet	90	97	95	89	86	85	81	71	93
	3.00	Inlet	92	91	87	81	78	76	71	64	85
		Outlet	95	96	93	88	84	80	75	68	91
1000	1.00	Inlet	86	97	95	88	87	87	83	77	94
		Outlet	91	100	99	95	93	92	88	82	99
	2.00	Inlet	86	95	92	86	85	85	81	74	91
		Outlet	91	99	98	92	90	89	85	78	96
	4.00	Inlet	95	96	91	85	81	78	73	68	88
		Outlet	99	100	96	91	86	82	78	72	94
1100	1.00	Inlet	87	97	97	91	90	89	86	81	96
		Outlet	93	101	102	97	95	94	91	86	101
	3.00	Inlet	88	96	94	88	86	86	82	76	93
		Outlet	93	100	100	94	91	90	86	80	98
	5.00	Inlet	99	99	94	88	84	81	76	72	92
		Outlet	102	103	99	94	89	85	80	76	96
1300	1.00	Inlet	92	97	104	96	94	93	90	86	101
		Outlet	97	102	108	102	100	98	96	92	106
	3.00	Inlet	92	96	102	93	92	91	89	83	99
		Outlet	97	101	105	100	97	96	93	88	104
	5.00	Inlet	92	97	101	91	89	88	86	79	97
		Outlet	97	102	105	98	94	92	89	84	101
1500	1.00	Inlet	95	97	110	100	97	96	95	90	105
		Outlet	101	103	113	106	103	101	100	96	110
	3.00	Inlet	97	96	109	98	95	96	93	89	104
		Outlet	101	102	111	104	101	101	99	94	108
	5.00	Inlet	97	97	108	96	94	93	92	86	103
		Outlet	101	103	110	103	99	98	96	91	107
8.00	Inlet	100	101	106	95	92	90	88	82	101	
	Outlet	105	106	110	102	98	94	91	86	105	
1700	1.00	Inlet	99	98	114	103	100	99	98	94	109
		Outlet	104	105	116	110	107	104	104	100	114
	5.00	Inlet	101	97	113	101	97	98	96	91	107
		Outlet	104	103	114	107	103	103	101	96	111
	12.00	Inlet	112	109	110	100	96	93	89	84	105
		Outlet	114	114	113	107	102	97	93	88	109

402 PLC

RPM	SP	Condition	Sound Power re 10 ⁻¹² Watts								L _w A
			Octave Bands								
			1	2	3	4	5	6	7	8	
450	1.00	Inlet	79	78	69	65	61	55	49	43	68
		Outlet	84	81	75	71	67	61	54	47	74
550	1.00	Inlet	82	83	76	71	73	69	62	55	77
		Outlet	86	87	81	77	77	74	65	56	82
650	1.00	Inlet	86	89	82	77	78	77	69	61	83
		Outlet	89	94	88	84	82	82	73	63	88
	2.00	Inlet	89	87	81	74	72	68	62	56	79
		Outlet	93	92	86	82	77	74	67	59	84
750	1.00	Inlet	87	95	87	83	83	83	76	67	89
		Outlet	91	98	93	89	87	87	80	69	93
	2.00	Inlet	88	85	83	78	78	78	71	62	84
		Outlet	92	97	91	85	83	83	76	65	90
850	1.00	Inlet	87	98	92	87	87	86	81	74	93
		Outlet	92	101	97	93	91	91	86	79	97
	3.00	Inlet	91	92	87	82	80	79	73	66	86
		Outlet	95	99	94	89	85	83	78	70	92
950	1.00	Inlet	87	100	95	90	89	88	85	79	95
		Outlet	93	103	100	96	95	94	90	84	101
	4.00	Inlet	94	98	91	86	83	81	76	70	90
		Outlet	98	102	97	92	88	85	81	75	95
1050	1.00	Inlet	89	100	99	93	92	91	87	83	98
		Outlet	95	104	103	99	97	96	93	88	103
	5.00	Inlet	96	101	95	89	86	84	80	74	93
		Outlet	101	104	101	95	91	88	83	78	98
1150	1.00	Inlet	92	101	102	95	94	93	90	86	100
		Outlet	98	105	107	102	99	98	96	91	106
	4.00	Inlet	92	99	99	92	90	90	86	80	97
		Outlet	97	104	104	98	95	94	90	85	102
	6.00	Inlet	99	102	99	91	88	86	82	77	96
		Outlet	103	106	104	98	93	90	86	81	101
1250	1.00	Inlet	94	101	106	98	96	95	92	88	103
		Outlet	100	105	110	104	102	100	98	94	108
	4.00	Inlet	95	100	103	95	93	93	90	84	100
		Outlet	99	104	107	101	98	97	94	89	105
	6.00	Inlet	95	100	102	93	90	89	87	80	98
		Outlet	100	105	106	99	95	93	90	84	103
1350	1.00	Inlet	96	101	109	100	98	97	95	90	105
		Outlet	102	106	112	107	104	102	100	96	110
	4.00	Inlet	97	99	107	97	95	95	93	87	103
		Outlet	101	105	110	103	101	100	97	92	108
	8.00	Inlet	102	103	105	96	92	90	88	82	100
		Outlet	106	108	109	102	98	94	91	86	105
1550	1.00	Inlet	100	101	115	104	101	100	99	94	109
		Outlet	105	107	117	111	107	105	104	100	114
	4.00	Inlet	101	99	113	102	99	99	97	92	108
		Outlet	105	106	115	108	105	104	102	98	112
	6.00	Inlet	101	100	112	101	98	98	96	91	107
		Outlet	105	106	114	107	104	102	101	95	111
12.00	Inlet	112	110	110	101	96	94	89	85	105	
	Outlet	115	114	114	107	102	97	93	89	110	

The sound power level ratings shown are in decibels referred to 10⁻¹² watts calculated per AMCA Standard 301. The A-weighted sound ratings shown has been calculated per AMCA Standard 301. Values shown are for inlet L_{wi}, L_{wi}A and outlet L_{wo}, L_{wo}A sound power levels for Installation Type A: free inlet, free outlet. Ratings do not include effects of duct end correction.

445 PLC

RPM	SP	Condition	Sound Power re 10 ⁻¹² Watts								L _w A
			Octave Bands								
			1	2	3	4	5	6	7	8	
450	1.00	Inlet	81	81	70	69	70	63	57	51	74
		Outlet	87	84	77	74	75	68	60	52	78
550	1.00	Inlet	86	87	79	76	77	74	66	58	81
		Outlet	90	92	85	82	81	79	69	60	86
650	1.00	Inlet	88	94	85	82	82	82	74	65	88
		Outlet	93	98	91	88	86	86	77	67	92
	2.00	Inlet	89	87	82	77	78	76	68	61	83
		Outlet	94	96	89	84	82	81	72	63	89
750	1.00	Inlet	89	99	90	87	87	86	80	73	92
		Outlet	94	101	96	93	91	91	84	77	97
	3.00	Inlet	93	92	87	82	80	78	72	65	86
		Outlet	98	99	94	89	85	82	76	69	92
850	1.00	Inlet	88	103	94	90	90	89	84	79	96
		Outlet	94	105	100	97	95	94	89	84	101
	4.00	Inlet	95	99	90	86	83	81	76	70	90
		Outlet	100	103	97	92	88	85	80	74	95
950	1.00	Inlet	89	104	98	93	92	91	87	83	98
		Outlet	96	106	103	100	98	97	93	88	104
	5.00	Inlet	97	102	94	89	87	85	80	74	94
		Outlet	102	106	100	95	91	88	84	78	98
1050	1.00	Inlet	92	104	102	96	95	94	90	86	101
		Outlet	99	107	107	103	100	99	96	92	107
	4.00	Inlet	93	103	99	93	91	91	86	81	98
		Outlet	99	106	104	99	96	95	91	85	103
	6.00	Inlet	99	104	98	92	89	87	83	77	96
		Outlet	104	107	104	98	94	91	87	81	101
1150	1.00	Inlet	95	104	106	99	97	96	93	89	104
		Outlet	101	108	110	105	103	101	99	95	109
	4.00	Inlet	95	103	103	96	94	94	90	85	101
		Outlet	101	107	107	102	100	98	95	90	106
	8.00	Inlet	106	107	102	95	92	89	84	79	99
		Outlet	110	110	107	101	96	92	88	83	104
1250	1.00	Inlet	97	104	109	101	99	98	96	91	106
		Outlet	103	109	113	108	105	103	101	97	111
	4.00	Inlet	98	103	107	99	97	97	94	88	104
		Outlet	103	107	110	105	103	102	98	93	109
	8.00	Inlet	101	105	105	96	93	92	89	83	101
		Outlet	106	109	110	103	98	95	92	87	106
1350	1.00	Inlet	99	104	112	103	101	100	98	94	108
		Outlet	105	109	116	110	107	105	104	99	114
	5.00	Inlet	101	103	110	100	98	98	95	90	106
		Outlet	105	108	113	107	104	103	100	95	111
	10.00	Inlet	106	107	108	99	95	93	90	85	104
		Outlet	110	112	112	105	101	97	94	89	108
1450	3.00	Inlet	102	103	114	104	101	101	99	94	110
		Outlet	107	109	117	110	108	106	104	100	114
	6.00	Inlet	103	103	113	102	100	100	97	92	108
		Outlet	107	109	115	108	105	104	102	97	112
	12.00	Inlet	110	109	111	101	97	95	92	86	106
		Outlet	114	114	115	108	103	99	95	90	110

490 PLC

RPM	SP	Condition	Sound Power re 10 ⁻¹² Watts								L _w A
			Octave Bands								
			1	2	3	4	5	6	7	8	
400	1.00	Inlet	82	81	70	69	69	61	55	49	73
		Outlet	88	83	76	74	74	66	59	51	78
500	1.00	Inlet	87	87	79	77	78	74	66	58	82
		Outlet	92	92	85	82	82	78	69	59	86
600	1.00	Inlet	90	96	85	84	84	83	74	65	89
		Outlet	95	99	92	89	88	87	77	67	93
	2.00	Inlet	90	88	82	78	79	77	69	61	84
		Outlet	96	98	90	85	83	83	73	63	90
700	1.00	Inlet	91	100	91	88	88	87	81	74	94
		Outlet	96	103	97	94	93	92	85	78	99
	3.00	Inlet	94	94	87	83	82	80	73	66	87
		Outlet	99	101	94	90	86	84	77	70	93
800	1.00	Inlet	90	105	95	92	92	90	85	80	97
		Outlet	96	107	101	98	97	95	91	86	102
	2.00	Inlet	90	104	93	90	90	89	83	78	96
		Outlet	96	106	99	96	95	93	88	82	100
	4.00	Inlet	94	101	91	87	85	84	78	72	92
		Outlet	99	105	98	93	89	88	82	76	97
900	1.00	Inlet	91	107	99	95	94	93	89	85	100
		Outlet	98	109	105	101	99	98	94	90	106
	4.00	Inlet	92	105	95	91	89	90	84	78	96
		Outlet	98	108	101	97	94	93	88	82	101
	6.00	Inlet	102	105	96	91	89	85	80	75	95
		Outlet	107	108	102	97	92	88	84	79	100
1000	1.00	Inlet	94	107	103	98	97	96	92	88	103
		Outlet	101	110	108	105	102	101	98	93	108
	4.00	Inlet	95	106	100	95	94	93	89	83	100
		Outlet	101	109	105	101	99	97	93	88	105
	6.00	Inlet	97	106	99	93	91	90	85	79	98
		Outlet	103	109	105	99	95	94	89	83	103
1100	1.00	Inlet	97	107	107	101	99	98	95	91	105
		Outlet	103	111	112	107	105	103	101	96	111
	3.00	Inlet	97	106	106	99	98	97	93	89	104
		Outlet	103	110	110	105	103	102	99	94	109
	5.00	Inlet	98	106	104	97	96	95	91	85	102
		Outlet	103	110	109	103	101	99	96	90	107
8.00	Inlet	104	107	103	96	93	91	87	81	101	
	Outlet	108	111	108	102	98	95	91	86	105	
1200	1.00	Inlet	100	107	111	103	101	100	97	93	108
		Outlet	106	112	115	110	107	105	103	99	113
	3.00	Inlet	100	106	109	102	100	99	96	92	107
		Outlet	105	111	113	108	106	105	102	97	112
	5.00	Inlet	100	106	108	100	99	98	95	89	105
		Outlet	105	110	112	106	104	103	99	94	110
10.00	Inlet	108	110	107	99	96	93	89	84	103	
	Outlet	112	114	111	105	100	97	93	88	108	
1300	8.00	Inlet	103	106	110	101	98	98	95	89	106
		Outlet	108	111	114	107	104	102	99	94	111
	12.00	Inlet	112	111	110	101	98	95	91	86	106
		Outlet	115	116	114	108	103	99	95	90	110

The sound power level ratings shown are in decibels referred to 10⁻¹² watts calculated per AMCA Standard 301. The A-weighted sound ratings shown has been calculated per AMCA Standard 301. Values shown are for inlet L_{wi}, L_{wi}A and outlet L_{wo}, L_{wo}A sound power levels for Installation Type A: free inlet, free outlet. Ratings do not include effects of duct end correction.

540-600 PLC Sound Data

540 PLC

RPM	SP	Condition	Sound Power re 10 ⁻¹² Watts								L _w A
			Octave Bands								
			1	2	3	4	5	6	7	8	
350	1.00	Inlet	82	79	70	68	65	58	52	46	71
		Outlet	87	82	76	74	71	64	56	49	76
450	1.00	Inlet	88	87	79	77	79	73	65	57	82
		Outlet	94	91	85	83	83	78	68	58	87
550	1.00	Inlet	92	96	86	85	85	83	74	65	90
		Outlet	97	100	92	90	89	87	77	67	94
	2.00	Inlet	90	88	83	80	80	77	69	61	85
		Outlet	97	98	90	86	85	83	73	63	90
650	1.00	Inlet	94	102	91	90	90	88	82	75	95
		Outlet	99	104	98	95	94	93	86	80	100
	3.00	Inlet	95	95	88	84	84	82	74	67	89
		Outlet	100	102	95	90	88	86	79	71	94
750	1.00	Inlet	93	106	96	93	93	91	87	82	98
		Outlet	99	108	102	100	98	97	92	87	104
	3.00	Inlet	93	104	93	90	89	88	82	76	95
		Outlet	99	107	99	96	94	92	87	81	100
5.00	Inlet	101	102	93	89	87	83	78	73	93	
	Outlet	106	106	99	95	90	86	82	77	98	
850	1.00	Inlet	93	110	100	96	96	95	90	86	102
		Outlet	100	112	106	103	101	100	96	92	107
	4.00	Inlet	94	108	96	93	92	92	86	80	99
		Outlet	100	110	102	99	96	96	90	85	103
6.00	Inlet	101	107	96	92	90	87	82	77	97	
	Outlet	106	110	103	98	93	91	86	81	101	
950	1.00	Inlet	96	110	104	100	99	97	94	89	105
		Outlet	103	113	110	106	104	103	99	95	110
	3.00	Inlet	96	109	102	98	98	96	92	87	103
		Outlet	102	111	108	104	103	101	97	92	108
	5.00	Inlet	97	109	101	96	94	94	89	83	101
		Outlet	103	112	106	102	99	98	93	88	106
8.00	Inlet	107	109	101	96	93	89	85	80	100	
	Outlet	111	112	107	102	97	93	88	84	104	
1050	1.00	Inlet	99	110	108	102	101	100	97	92	107
		Outlet	106	114	113	109	106	105	102	98	113
	4.00	Inlet	99	109	106	100	99	99	94	89	105
		Outlet	105	112	111	106	105	103	99	94	111
	6.00	Inlet	100	109	105	99	97	96	92	86	104
		Outlet	105	112	110	105	102	101	97	91	108
10.00	Inlet	111	111	105	99	95	92	87	83	103	
	Outlet	115	115	110	105	100	95	91	87	107	
1150	1.00	Inlet	102	110	112	105	103	102	99	95	110
		Outlet	108	115	116	112	109	108	105	101	115
	3.00	Inlet	102	110	111	104	102	101	98	94	109
		Outlet	108	114	115	110	108	107	104	99	114
	5.00	Inlet	102	109	110	102	101	101	97	92	108
		Outlet	107	113	114	108	107	105	102	97	113
	8.00	Inlet	103	109	108	100	98	98	94	88	105
		Outlet	108	113	113	107	103	102	98	93	110
12.00	Inlet	114	113	108	101	98	94	90	85	105	
	Outlet	117	117	113	107	102	98	94	89	110	

600 PLC

RPM	SP	Condition	Sound Power re 10 ⁻¹² Watts								L _w A
			Octave Bands								
			1	2	3	4	5	6	7	8	
300	1.00	Inlet	82	77	70	66	61	55	49	42	68
		Outlet	86	81	76	72	67	60	53	46	74
350	1.00	Inlet	85	82	73	74	73	65	59	53	77
		Outlet	91	85	79	78	78	70	62	53	81
400	1.00	Inlet	88	87	78	78	79	72	64	56	82
		Outlet	95	91	85	83	83	77	67	57	87
450	1.00	Inlet	92	91	83	82	83	78	69	61	86
		Outlet	97	95	90	87	87	82	72	62	91
	2.00	Inlet	90	88	81	78	76	70	64	57	81
		Outlet	96	94	87	84	81	75	68	60	86
500	1.00	Inlet	95	95	87	86	86	83	74	65	90
		Outlet	99	100	93	91	90	87	77	67	95
	2.00	Inlet	90	89	83	81	82	78	69	61	85
		Outlet	98	98	91	87	86	83	73	62	91
550	1.00	Inlet	96	99	90	89	89	87	79	71	94
		Outlet	101	103	96	94	93	91	83	75	98
	3.00	Inlet	96	94	87	83	81	77	71	64	87
		Outlet	101	100	94	89	86	82	75	67	92
600	1.00	Inlet	97	102	92	91	91	89	83	77	96
		Outlet	101	105	99	97	96	94	87	81	101
	4.00	Inlet	101	98	90	86	83	78	73	68	89
		Outlet	105	102	96	92	87	82	77	72	94
650	1.00	Inlet	97	104	95	93	93	91	86	81	98
		Outlet	102	107	102	99	98	96	91	86	103
	4.00	Inlet	99	100	91	88	87	84	78	71	92
		Outlet	104	105	98	94	90	88	82	76	97
750	1.00	Inlet	96	110	99	97	96	94	90	86	102
		Outlet	103	112	106	103	101	100	96	91	107
	4.00	Inlet	97	107	96	93	92	91	85	79	98
		Outlet	102	110	102	99	96	95	89	84	103
6.00	Inlet	104	106	96	92	90	86	81	76	96	
	Outlet	108	110	103	98	93	90	85	81	101	
850	1.00	Inlet	97	114	103	100	99	98	94	89	105
		Outlet	104	116	110	107	104	104	99	95	111
	4.00	Inlet	96	112	100	97	97	96	90	85	103
		Outlet	103	114	106	103	102	100	95	90	107
	8.00	Inlet	108	110	100	96	93	89	84	80	100
		Outlet	112	113	106	102	97	93	88	84	105
950	1.00	Inlet	100	114	108	103	102	101	97	93	108
		Outlet	107	117	113	110	107	106	103	99	114
	5.00	Inlet	100	112	105	100	99	98	94	88	105
		Outlet	106	115	110	106	104	103	98	93	110
10.00	Inlet	111	113	104	99	96	92	88	83	103	
	Outlet	115	116	110	105	100	96	91	87	108	
1050	1.00	Inlet	103	114	112	106	104	103	100	96	111
		Outlet	109	118	117	113	110	109	106	102	116
	6.00	Inlet	103	112	109	103	102	101	97	91	108
		Outlet	109	116	114	109	107	105	101	96	113
	12.00	Inlet	113	114	108	102	99	95	91	86	106
		Outlet	117	118	113	108	103	99	95	90	110

The sound power level ratings shown are in decibels referred to 10⁻¹² watts calculated per AMCA Standard 301. The A-weighted sound ratings shown has been calculated per AMCA Standard 301. Values shown are for inlet L_{wi}, L_{wi}A and outlet L_{wo}, L_{wo}A sound power levels for Installation Type A: free inlet, free outlet. Ratings do not include effects of duct end correction.

660 PLC

RPM	SP	Condition	Sound Power re 10 ⁻¹² Watts								L _w A
			Octave Bands								
			1	2	3	4	5	6	7	8	
300	1.00	Inlet	84	79	72	72	69	62	56	50	74
		Outlet	89	83	78	77	74	66	58	51	79
350	1.00	Inlet	88	85	77	78	78	70	62	55	81
		Outlet	94	89	84	83	82	74	65	56	86
400	1.00	Inlet	93	90	82	82	83	76	68	60	86
		Outlet	98	94	89	87	87	81	71	61	91
	2.00	Inlet	90	88	80	77	75	69	63	56	80
		Outlet	96	93	87	83	80	74	66	59	86
450	1.00	Inlet	96	94	87	87	87	82	73	64	90
		Outlet	100	99	93	91	91	86	76	66	95
	2.00	Inlet	90	89	83	82	82	77	68	60	85
		Outlet	99	97	91	87	87	82	72	62	91
500	1.00	Inlet	99	98	90	90	90	86	79	71	94
		Outlet	102	103	97	95	94	91	83	75	99
	3.00	Inlet	96	93	87	83	82	77	71	64	87
		Outlet	102	100	94	90	86	82	74	67	92
550	1.00	Inlet	100	101	93	93	92	89	83	77	97
		Outlet	104	105	100	98	97	94	88	82	102
	4.00	Inlet	101	97	90	86	83	79	74	69	90
		Outlet	105	102	97	92	87	83	78	72	95
600	1.00	Inlet	100	104	96	95	94	91	86	81	99
		Outlet	104	108	102	100	99	97	92	87	104
	2.00	Inlet	99	102	94	93	93	90	84	78	97
		Outlet	103	106	100	99	97	94	89	83	102
	4.00	Inlet	100	100	92	89	88	85	78	72	93
		Outlet	105	105	98	94	91	89	82	76	98
650	1.00	Inlet	100	107	98	96	96	93	89	84	101
		Outlet	105	110	105	102	101	99	94	90	106
	3.00	Inlet	99	105	96	94	93	91	85	79	98
		Outlet	104	108	102	99	98	95	90	84	103
	5.00	Inlet	102	103	94	91	89	86	81	75	95
		Outlet	107	108	101	97	93	90	85	79	100
750	1.00	Inlet	100	113	102	100	99	97	93	89	105
		Outlet	106	115	109	106	104	103	99	94	110
	4.00	Inlet	99	111	99	97	96	95	89	84	102
		Outlet	105	113	106	103	101	99	94	89	107
	6.00	Inlet	101	109	98	95	93	92	86	79	100
		Outlet	107	113	104	100	97	96	90	84	104
850	1.00	Inlet	100	117	106	103	102	101	97	93	108
		Outlet	107	119	113	110	107	107	103	98	114
	4.00	Inlet	99	116	104	101	101	99	94	89	107
		Outlet	106	117	110	107	106	104	99	94	111
	8.00	Inlet	104	114	101	98	96	96	89	83	103
		Outlet	109	117	108	104	100	99	93	88	108
950	6.00	Inlet	103	115	108	103	102	101	97	91	108
		Outlet	109	118	113	109	107	106	101	96	113
	8.00	Inlet	104	115	107	102	100	100	95	88	107
		Outlet	110	118	112	108	105	104	99	93	111
	10.00	Inlet	107	115	106	101	98	98	93	86	106
		Outlet	112	118	112	107	103	101	96	91	110

730 PLC

RPM	SP	Condition	Sound Power re 10 ⁻¹² Watts								L _w A
			Octave Bands								
			1	2	3	4	5	6	7	8	
250	1.00	Inlet	83	76	71	67	62	56	50	44	69
		Outlet	87	81	77	74	68	61	54	46	75
300	1.00	Inlet	88	82	76	77	75	67	60	53	79
		Outlet	93	87	82	82	80	71	62	53	84
350	1.00	Inlet	93	88	82	82	82	74	66	58	85
		Outlet	98	93	88	87	86	79	69	59	90
	2.00	Inlet	92	87	80	76	72	66	60	55	79
		Outlet	96	92	87	82	77	71	64	58	84
400	1.00	Inlet	98	93	87	87	87	81	72	63	90
		Outlet	102	98	93	91	91	85	75	65	95
	2.00	Inlet	90	89	83	82	82	75	67	60	85
		Outlet	100	96	90	87	87	80	70	61	91
450	1.00	Inlet	101	97	91	91	90	86	78	71	94
		Outlet	104	102	97	96	95	90	82	74	99
	3.00	Inlet	97	93	87	84	82	77	70	64	87
		Outlet	102	99	94	90	86	81	74	67	92
500	1.00	Inlet	103	101	94	94	93	89	83	77	97
		Outlet	106	105	101	99	98	94	88	82	102
	4.00	Inlet	102	97	91	87	84	79	74	69	90
		Outlet	106	102	97	92	88	84	78	73	95
550	1.00	Inlet	103	104	97	96	95	92	87	82	99
		Outlet	107	108	103	101	100	97	92	88	105
	5.00	Inlet	105	101	94	91	87	82	78	73	93
		Outlet	109	106	100	95	91	86	82	77	98
600	1.00	Inlet	103	107	99	98	97	94	90	85	102
		Outlet	108	111	106	104	102	100	95	91	107
	5.00	Inlet	104	103	95	92	91	88	81	75	96
		Outlet	108	108	102	97	94	91	86	80	101
650	1.00	Inlet	103	110	102	100	99	96	92	88	104
		Outlet	108	114	108	106	104	102	98	93	110
	6.00	Inlet	105	107	97	94	93	90	84	78	98
		Outlet	110	111	104	100	96	93	88	83	103
700	1.00	Inlet	103	113	104	101	101	99	94	90	106
		Outlet	109	116	110	108	106	104	100	96	112
	4.00	Inlet	102	111	101	99	98	96	91	85	104
		Outlet	108	114	107	104	103	101	95	90	108
	8.00	Inlet	110	110	101	97	94	90	85	80	100
		Outlet	114	113	107	102	97	93	89	85	105
750	1.00	Inlet	103	116	106	103	102	101	96	92	108
		Outlet	110	119	112	110	107	106	102	98	114
	4.00	Inlet	102	114	103	101	101	99	94	88	106
		Outlet	108	116	109	107	106	104	98	93	111
	8.00	Inlet	107	112	101	98	96	94	88	82	103
		Outlet	112	116	108	104	100	97	92	87	107
800	1.00	Inlet	103	119	107	105	104	103	98	94	110
		Outlet	110	121	114	111	109	108	104	100	115
	5.00	Inlet	102	117	105	102	102	100	95	90	108
		Outlet	109	119	111	108	107	105	100	94	112
	10.00	Inlet	111	115	104	100	98	94	89	84	104
		Outlet	116	118	110	106	101	98	93	88	109

The sound power level ratings shown are in decibels referred to 10⁻¹² watts calculated per AMCA Standard 301. The A-weighted sound ratings shown has been calculated per AMCA Standard 301. Values shown are for inlet L_{wi}, L_{wi}A and outlet L_{wo}, L_{wo}A sound power levels for Installation Type A: free inlet, free outlet. Ratings do not include effects of duct end correction.



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