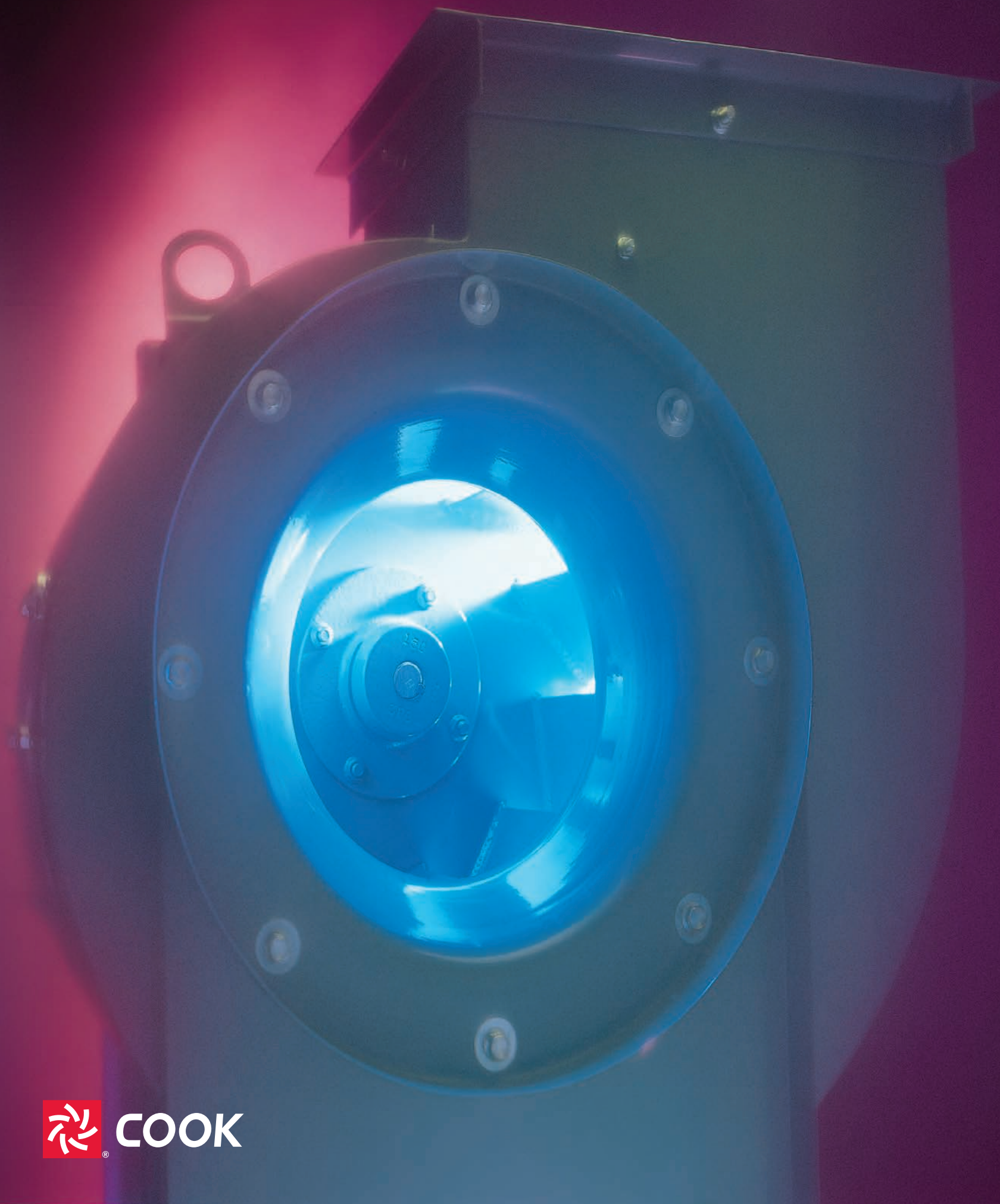
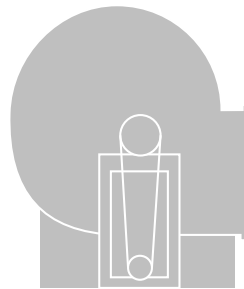
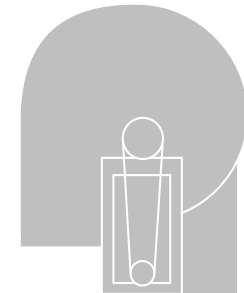
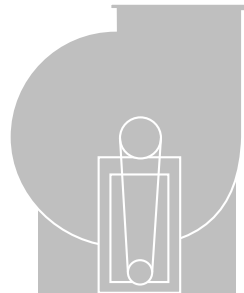
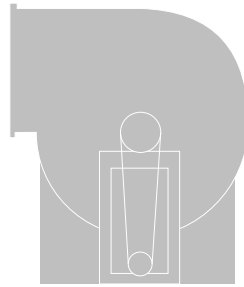


CP





Steel and Aluminum Utility Vent Sets



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INTRODUCTION

Loren Cook Company CP centrifugal utility vent sets offer durability and reliability in a self-contained package.

CP's are ideal for low to medium volume and pressure applications. They are available in a number of wheel options for maximum performance flexibility.

- Produced in an ISO 9001 Certified facility.
- Listed by Underwriters Laboratory (UL 705) and UL Listed for Canada (cUL 705).
- Rotatable housing is standard on all models. Discharge flanges are standard on all belt drive models, except in downblast or bottom angular down discharge positions (see page 17).

Belt Drives

Backward Inclined Flat Blade Wheel: CPS, CPA & CPV

Licensed to bear AMCA Certified Ratings Seals for Air and Sound Performance. UL/cUL 762 listing for restaurant applications available.

Steel Wheel / Steel Scroll (CPS)

Aluminum Wheel / Aluminum Scroll (CPA)

- Wheel Sizes: 10 - 49"
- Capacity: 70 - 49,150 CFM
- Static Pressure: 1 - 8"
- Class I or Class II (size 120 - 365)
- CPA is Spark Resistant Type A construction (see page 20)

Aluminum Wheel / Steel Scroll (CPV)

- Wheel Sizes: 10 - 49"
- Capacity: 50 - 43,400 CFM
- Static Pressure: 0.25 - 2.5"



CPV shown. All belt drive units use this body style.

Backward Inclined Airfoil Wheel: CPS-A & CPA-A

Licensed to bear AMCA Certified Ratings Seals for Air and Sound Performance. UL/cUL 762 listing for restaurant applications available.

Steel Wheel / Steel Scroll (CPS-A)

Aluminum Wheel / Aluminum Scroll (CPA-A)

- Wheel Sizes: 12 - 49"
- Capacity: 700 - 53,550 CFM
- Static Pressure: 1 - 8"
- Class I or Class II (size 120 - 365)
- CPA-A is Spark Resistant Type A construction. (see page 20)
- CPS-A is available with UL/cUL listing for "Power Ventilator for Smoke Control Systems".

Forward Curved Wheel: CPFB

Licensed to bear AMCA Certified Ratings Seal for Air and Sound Performance.

Steel Wheel / Steel Scroll (CPFB)

- Wheel Sizes: 10 - 30"
- Capacity: 500 - 25,000 CFM
- Static Pressure: 0.125 - 2"

Direct Drives

Forward Curved Wheel: CPFD

Steel Wheel / Steel Scroll (CPFD)

- Wheel Sizes: 6 - 12"
- Capacity: 203 - 2,635 CFM
- Static Pressure: 0.125 - 2"



CPFD

The Wheels



CPV uses a riveted aluminum wheel, with backward inclined flat blades.



CPS uses a welded, Lorenized™ steel wheel, with backward inclined flat blades. CPA uses a welded, aluminum wheel.



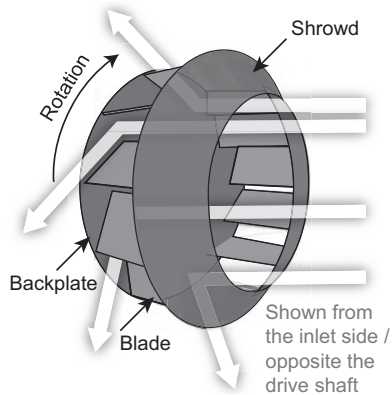
CPS-A uses a welded, Lorenized™ steel wheel, with backward inclined airfoil blades. CPA-A uses a welded, aluminum wheel.



CPFD & CPFB use a steel wheel, with forward curved blades.

About Centrifugal Fans

A centrifugal wheel brings air in parallel to the axis of rotation and discharges air perpendicular to the axis of rotation. The air then follows the shape of the fan to the outlet. As a general rule, it is preferred for higher pressure exhaust and ducted systems.

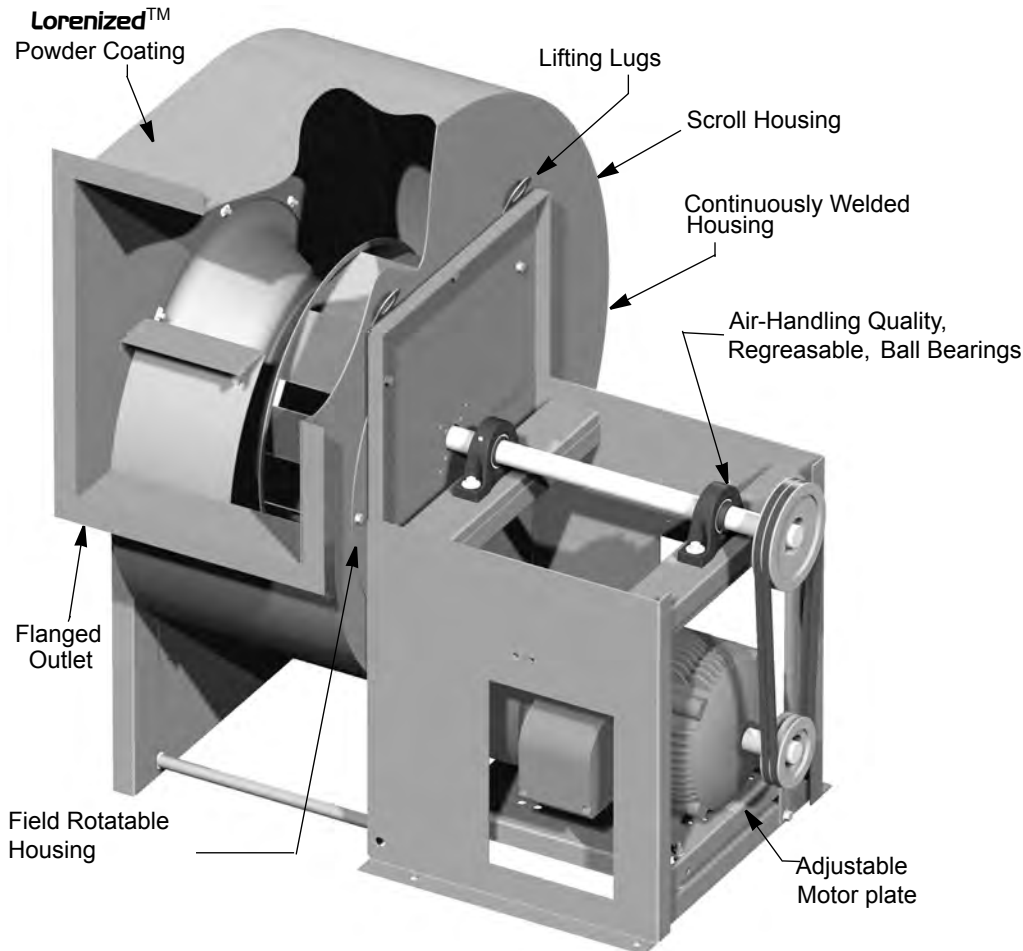
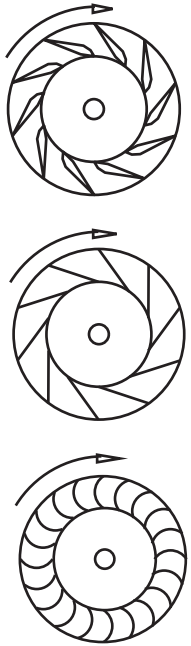


Blade type:

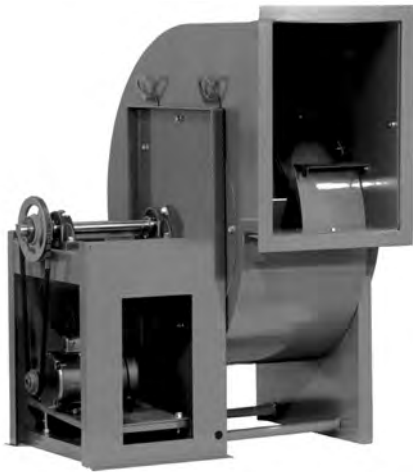
Backward Inclined Airfoil: Has the highest efficiency of all of the centrifugal impeller designs with blades of airfoil contour curved away from the direction of rotation. Air leaves the impeller at a velocity less than its tip speed. Relatively deep blades provide for efficient expansion with the blade passages. For the given duty, the airfoil impeller design will provide for the highest speed of the centrifugal fan designs.

Backward Inclined Flat Blades: Efficiency is slightly less than that of the airfoil design. Blades are single thickness metal inclined away from the direction of rotation. Air leaves the impeller at a velocity less than its tip speed. Relatively deep blades provide efficient expansion with the blade passages.

Forward Curved: Efficiency is less than airfoil and backward curved bladed impellers. Has blades with both the heel and tip curved forward. Air leaves the impeller at velocities greater than the impeller tip speed. For the given duty, the wheel is the smallest of all of the centrifugal types and operates most efficiently at lowest speed.



Centrifugal Vent Set Blower Backward Inclined Aluminum Wheel Steel Housing Belt Drive



Loren Cook Company certifies that the CPV 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 CPV is furnished standard with UL 705 listing (cUL 705) when furnished with factory supplied motor.

Type CPV is available with UL 762 listing (cUL 762) when furnished with factory supplied motor.

Description: Fan shall be a single width, single inlet, backward inclined flat blade, belt driven centrifugal vent set.

Certifications: Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL/cUL 705) for US and Canada. For restaurant applications, fan shall be listed by Underwriters Laboratories (UL/cUL 762) for US and Canada. Fan shall bear the AMCA Certified Ratings Seal for Sound and Air performance.

Construction: The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper shall be minimum 14 gauge steel and the scroll side panels shall be minimum 12 gauge steel. The entire fan housing shall have continuously welded seams for leakproof operation. A performance cut-off shall be furnished to prevent the recirculation of air in the fan housing. The fan housing shall be field rotatable to any one of eight discharge positions and shall have a minimum 1-1/2 inch outlet discharge flange. Bearing support shall be minimum 10 gauge welded steel. Side access inspection ports shall be provided with quick release latches for access to the motor compartment without removing the weather cover. Lifting lugs shall be provided for ease of installation. 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 centrifugal backward inclined, constructed of 100% aluminum, including a precision machined cast aluminum hub. Wheel hub shall be keyed and securely attached to the fan shaft. Wheel inlet 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.

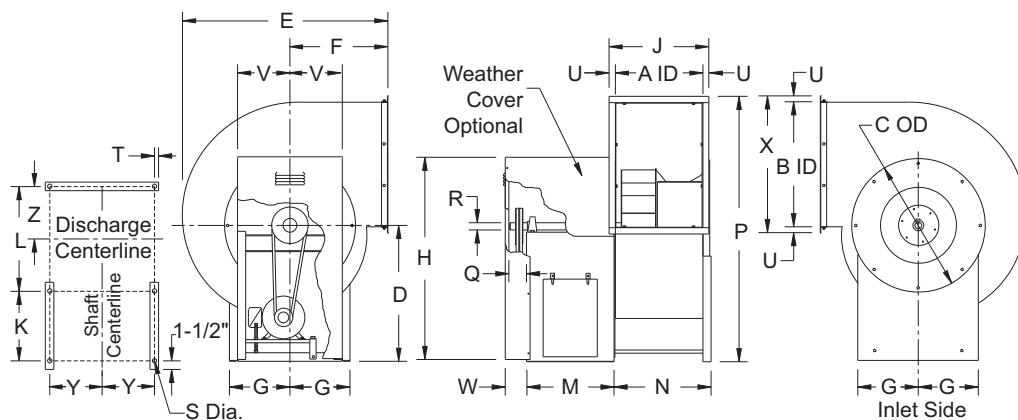
Motor: Motor shall be NEMA Design B with Class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

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 pillowblock 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, static conducting. 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 CPV as manufactured by Loren Cook Company of Springfield, Missouri.



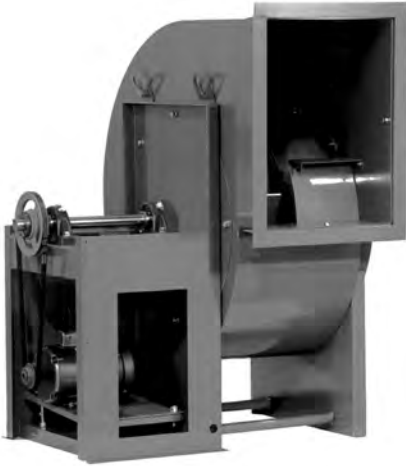
CPV Dimensions

Size	A	B	C	D	E	F	G	H	J	K	L	M
60	7-9/16	10-15/16	14-1/8	18	22-1/4	12-3/4	9-3/8	25-1/4	10-3/4	10	10-1/4	13-1/8
70	7-9/16	10-15/16	14-1/8	18	22-1/4	12-3/4	9-3/8	25-1/4	10-3/4	10	10-1/4	13-1/8
80	7-9/16	10-15/16	14-1/8	18	22-1/4	12-3/4	9-3/8	25-1/4	10-3/4	10	10-1/4	13-1/8
100	7-9/16	10-15/16	14-1/8	18	22-1/4	12-3/4	9-3/8	25-1/4	10-3/4	10	10-1/4	13-1/8
120	9-3/16	13-1/8	16-1/8	18	24-13/16	13-3/8	9-3/8	26-1/4	12-3/8	10	11-7/8	13-1/8
135	10-5/16	14-3/4	17-5/8	18	26-11/16	13-7/8	9-3/8	27	13-1/2	12	13	15-1/8
150	11-7/16	16-7/16	19-1/8	19-1/16	29-9/16	15-5/16	9-3/8	29-1/16	14-5/8	12	14-1/8	15-1/8
165	12-5/8	18-1/16	21-3/16	20-7/16	32-1/16	16-3/8	9-3/8	31-7/16	15-13/16	12	15-5/16	15-1/8
180	13-3/4	19-11/16	22-11/16	22-1/16	34-3/4	17-5/8	10-3/8	33-9/16	16-15/16	12	16-7/16	15-1/8
195	14-15/16	21-5/16	24-3/16	23-11/16	36-5/16	17-13/16	10-3/8	35-11/16	18-3/16	15	17-5/8	18-1/8
210	16-1/16	23	25-15/16	25-3/8	39-15/16	20	11-3/8	38-7/8	19-5/16	15	18-3/4	18-1/8
225	17-3/16	24-5/8	27-7/16	27	42	20-5/8	11-7/8	41	20-7/16	15	19-7/8	18-1/8
245	18-3/4	26-13/16	29-7/16	29-5/8	45-1/16	21-3/4	13-3/8	44-5/8	23	15	21-11/16	18-1/8
270	20-5/8	29-9/16	31-15/16	32-3/8	49-1/16	23-3/8	14-3/8	48-7/8	24-7/8	18	23-9/16	21-1/8
300	22-15/16	32-13/16	34-15/16	35-5/8	54-3/8	25-7/8	15-5/16	53-5/8	27-3/16	18	26	21-3/16
330	25-1/4	36-1/8	37-15/16	38-7/8	59-13/16	28-7/16	16-13/16	58-3/8	29-7/16	18	28-5/16	21-3/16
365	27-7/8	39-15/16	41-7/16	42-3/4	66-1/8	31-7/16	17-13/16	64-1/4	32-1/16	21	30-15/16	24-3/16
402	30-3/4	44-1/16	45-3/16	46-3/4	72-15/16	34-11/16	19-13/16	70-1/4	34-15/16	21	34-5/16	24-3/16
445	34	48-11/16	49-7/16	51-3/8	80-9/16	38-5/16	21-13/16	76-7/8	38-3/16	25	37-9/16	28-3/16
490	37-7/16	53-5/8	55	56-1/4	88-3/4	42-3/16	23-13/16	84-1/4	41-5/8	25	41	28-3/16

Size	N	P	Q	R	S	T	U	V	W	X	Y	Z	Max. Motor Frame *	Ship Wt.
60	9-3/8	30-3/8	3	3/4	9/16	3/4	1-5/8	8	4	14-1/16	8-5/8	4-5/8	145T	164
70	9-3/8	30-3/8	3	3/4	9/16	3/4	1-5/8	8	4	14-1/16	8-5/8	4-5/8	145T	164
80	9-3/8	30-3/8	3	3/4	9/16	3/4	1-5/8	8	4	14-1/16	8-5/8	4-5/8	145T	164
100	9-3/8	30-3/8	3	3/4	9/16	3/4	1-5/8	8	4	14-1/16	8-5/8	4-5/8	145T	164
120	11	32-9/16	3	3/4	9/16	3/4	1-5/8	8	4	16-5/16	8-5/8	5-7/16	184T	203
135	12-1/8	34-3/16	3	3/4	9/16	3/4	1-5/8	8	4	17-15/16	8-5/8	6	184T	235
150	13-1/4	37-1/8	3	3/4	9/16	3/4	1-5/8	8	4	19-5/8	8-5/8	6-9/16	184T	268
165	14-7/16	39-7/8	3	3/4	9/16	3/4	1-5/8	8	4	21-1/4	8-5/8	7-3/16	184T	303
180	15-9/16	43-1/8	3	1	9/16	3/4	1-5/8	9	4	22-7/8	9-5/8	7-3/4	215T	340
195	16-3/4	46-3/8	3	1	9/16	3/4	1-5/8	9	4	24-1/2	9-5/8	8-5/16	215T	379
210	17-7/8	49-3/4	4	1	9/16	3/4	1-5/8	10	5	26-3/16	10-5/8	8-7/8	215T	420
225	19	53	4	1	9/16	3/4	1-5/8	10-1/2	5	27-13/16	11-1/8	9-7/16	215T	465
245	21-1/16	58-1/4	4	1	11/16	1	2-1/8	11-1/2	5	31	12-3/8	10-1/2	215T	527
270	22-15/16	63-3/4	4	1	11/16	1	2-1/8	12-1/2	5	33-3/4	13-3/8	11-7/16	256T	613
300	25-5/16	71-1/4	4	1-3/16	11/16	1	2-1/8	13-1/2	5	37	14-5/16	12-5/8	256T	727
330	27-5/8	76-3/4	4	1-3/16	13/16	1	2-1/8	15	5	40-5/16	15-13/16	13-3/4	256T	854
365	30-1/4	84-1/2	5	1-3/16	13/16	1	2-1/8	16	6	44-3/16	16-13/16	15-1/16	324T	1021
402	34-1/8	92-1/2	5	1-7/16	13/16	1	2-1/8	18	6	48-5/16	18-13/16	17	324T	1220
445	37-3/8	101-3/4	5	1-7/16	13/16	1	2-1/8	20	6	52-15/16	20-13/16	18-5/8	326T	1486
490	40-13/16	111-1/2	5	1-7/16	13/16	1	2-1/8	22	6	57-7/8	22-13/16	20-3/8	326T	1804

All dimensions in inches. Weight in lbs., less motor. For other discharge dimensions, please consult page 17, Compute-A-Fan®, an authorized representative or the factory.
 *Based on open drip proof, single speed.

Centrifugal Utility Vent Set Blower Backward Inclined Wheel Steel Construction Belt Drive



Loren Cook Company certifies that the CPS 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 CPS is furnished standard with UL 705 listing (cUL 705) when furnished with factory supplied motor.

Type CPS is available with UL 762 listing (cUL 762) when furnished with factory supplied motor.

Type CPS is available with UL Power Ventilator for Smoke Control Systems Listing when furnished with factory supplied motor.

Description: Fan shall be a single width, single inlet, backward inclined flat blade, belt driven centrifugal vent set.

Certifications: Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL/cUL 705) for US and Canada. For restaurant applications, fan shall be listed by Underwriters Laboratories (UL/cUL 762) for US and Canada. For smoke control applications, fan shall be listed by Underwriters Laboratories (Power Ventilator for Smoke Control Systems) for US and Canada. Fan shall bear the AMCA Certified Ratings Seal for Sound and Air performance.

Construction: The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper shall be a minimum 14 gauge steel and the scroll side panels shall be a minimum 12 gauge steel. The entire fan housing shall have continuously welded seams for leakproof operation. A performance cut-off shall be furnished to prevent the recirculation of air in the fan housing. The fan housing shall be field rotatable to any one of eight discharge positions and shall have a minimum 1-1/2 inch outlet discharge flange. Bearing support shall be minimum 10 gauge welded steel. Side access inspection ports shall be provided with quick release latches for access to the motor compartment without removing the weather cover. Lifting lugs shall be provided for ease of installation. 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 centrifugal backward inclined, non-overloading flat blade type. Blades shall be continuously welded to the backplate and deep spun inlet shroud. Wheel hub shall be keyed and securely attached to the fan shaft. Wheel inlet 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.

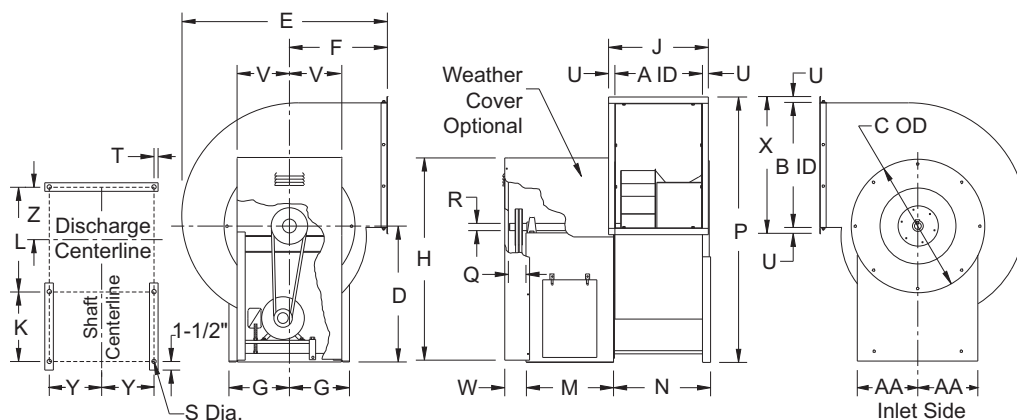
Motor: Motor shall be NEMA Design B with Class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

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 pillowblock housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

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.

Belts and Drives: Belts shall be oil and heat resistant, static conducting. 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 CPS as manufactured by Loren Cook Company of Springfield, Missouri.



CPS Dimensions

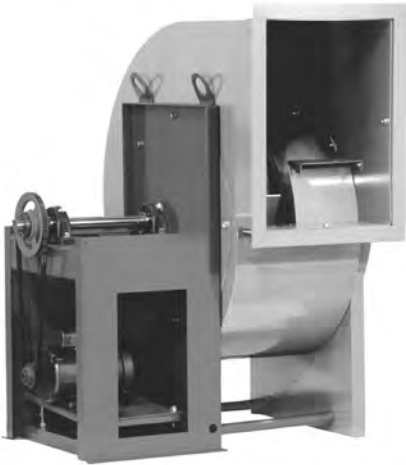
Size	A	B	C	D		E	F	G		H		J	K		L		M		N	
				Class I	Class II			Class I	Class II	Class I	Class II		Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II
60	7-9/16	10-15/16	14-1/8	18		22-1/4	12-3/4	9-3/8		25-1/4		10-3/4	10		10-1/4		13-1/8		9-3/8	
70	7-9/16	10-15/16	14-1/8	18	-	22-1/4	12-3/4	9-3/8	-	25-1/4	-	10-3/4	10	-	10-1/4	-	13-1/8	-	9-3/8	-
80	7-9/16	10-15/16	14-1/8	18		22-1/4	12-3/4	9-3/8		25-1/4		10-3/4	10		10-1/4		13-1/8		9-3/8	
100	7-9/16	10-15/16	14-1/8	18		22-1/4	12-3/4	9-3/8		25-1/4		10-3/4	10		10-1/4		13-1/8		9-3/8	
120	9-3/16	13-1/8	16-1/8	18	22	24-13/16	13-3/8	9-3/8	10-3/8	26-1/4	30-1/4	12-3/8	10	18	11-7/8	12-5/16	13-1/8	21-1/8	11	11-1/4
135	10-5/16	14-3/4	17-5/8	18	22	26-11/16	13-7/8	9-3/8	10-3/8	27	31	13-1/2	12	18	13	13-7/16	15-1/8	21-1/8	12-1/8	12-3/8
150	11-7/16	16-7/16	19-1/8	19-1/16	22	29-9/16	15-5/16	9-3/8	10-7/8	29-1/16	32	14-5/8	12	18	14-1/8	14-9/16	15-1/8	21-1/8	13-1/4	13-1/2
165	12-5/8	18-1/16	21-3/16	20-7/16	24	32-1/16	16-3/8	9-3/8	13	31-7/16	35	15-13/16	12	22-1/8	15-5/16	16-1/8	15-1/8	25-1/4	14-7/16	15-1/16
180	13-3/4	19-11/16	22-11/16	22-1/16	24	34-3/4	17-5/8	10-3/8	13	33-9/16	35-1/2	16-15/16	12	22-1/8	16-7/16	17-1/4	15-1/8	25-1/4	15-9/16	16-3/16
195	14-15/16	21-5/16	24-3/16	23-11/16	24-1/4	36-5/16	17-13/16	10-3/8	13-3/4	35-11/16	36-1/4	18-3/16	15	22-1/8	17-5/8	18-1/2	18-1/8	25-1/4	16-3/4	17-3/8
210	16-1/16	23	25-15/16	25-3/8	25-3/8	39-15/16	20	11-3/8	13-3/4	38-7/8	39	19-5/16	15	22-1/8	18-3/4	19-5/8	18-1/8	25-1/4	17-7/8	18-1/2
225	17-3/16	24-5/8	27-7/16	27	27	42	20-5/8	11-7/8	13-7/8	41	41	20-7/16	15	22-1/8	19-7/8	20-7/8	18-1/8	25-1/4	19	19-3/4
245	18-3/4	26-13/16	29-7/16	29-5/8	29-5/8	45-1/16	21-3/4	13-3/8	14-15/16	44-5/8	44-5/8	23	15	24-1/8	21-11/16	22-5/16	18-1/8	27-5/16	21-1/16	21-5/16
270	20-5/8	29-9/16	31-15/16	32-3/8	32-3/8	49-1/16	23-3/8	14-3/8	15-7/16	48-7/8	48-7/8	24-7/8	18	24-1/8	23-9/16	24-11/16	21-1/8	27-5/16	22-15/16	23-11/16
300	22-15/16	32-13/16	34-15/16	35-5/8	35-5/8	54-3/8	25-7/8	15-5/16	16-1/16	53-5/8	53-5/8	27-3/16	18	26	26	27-3/16	21-3/16	29-3/16	25-5/16	26-3/16
330	25-1/4	36-1/8	37-15/16	38-7/8	38-7/8	59-13/16	28-7/16	16-13/16	17-5/8	58-3/8	58-3/8	29-7/16	18	26	28-5/16	29-9/16	21-3/16	29-3/16	27-5/8	28-9/16
365	27-7/8	39-15/16	41-7/16	42-3/4	42-3/4	66-1/8	31-7/16	17-13/16	18-13/16	64-1/4	64-1/4	32-1/16	21	26	30-15/16	31-7/16	24-3/16	29-1/4	30-1/4	31-7/16
402	30-3/4	44-1/16	45-3/16	46-3/4	-	72-15/16	34-11/16	19-13/16	-	70-1/4	-	34-15/16	21	-	34-5/16	-	24-3/16	-	34-1/8	-
445	34	48-11/16	49-7/16	51-3/8	-	80-9/16	38-5/16	21-13/16	-	76-7/8	-	38-3/16	25	-	37-9/16	-	28-3/16	-	37-3/8	-
490	37-7/16	53-5/8	55	56-1/4	-	88-3/4	42-3/16	23-13/16	-	84-1/4	-	41-5/8	25	-	41	-	28-3/16	-	40-13/16	-

Size	P		Q	R		S	T	U	V		W	X	Y		Z		AA		Max. Motor Frame *		Ship Wt.	
	Class I	Class II		Class I	Class II				Class I	Class II			Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II
60	30-3/8		3	1		9/16	3/4	1-5/8	8		4	14-1/16	8-5/8		4-5/8		9-3/8		145T		173	
70	30-3/8		3	1		9/16	3/4	1-5/8	8		4	14-1/16	8-5/8		4-5/8		9-3/8		145T		173	
80	30-3/8		3	1		9/16	3/4	1-5/8	8		4	14-1/16	8-5/8		4-5/8		9-3/8		145T		173	
100	30-3/8		3	1		9/16	3/4	1-5/8	8		4	14-1/16	8-5/8		4-5/8		9-3/8		145T		173	
120	32-9/16	36-3/4	3	1	1-7/16	9/16	3/4	1-5/8	8	9	4	16-5/16	8-5/8	9-5/8	5-7/16	5-9/16	9-3/8	10-1/2	184T	215T	221	374
135	34-3/16	38-3/8	3	1	1-7/16	9/16	3/4	1-5/8	8	9	4	17-15/16	8-5/8	9-5/8	6	6-1/8	9-3/8	10-7/16	184T	215T	255	391
150	37-1/8	40-1/4	3	1	1-7/16	9/16	3/4	1-5/8	8	9-1/2	4	19-5/8	8-5/8	10-1/8	6-9/16	6-11/16	9-3/8	10-15/16	184T	256T	291	434
165	39-7/8	43-5/8	3	1	1-7/16	9/16	3/4	1-5/8	8	11-1/4	4	21-1/4	8-5/8	12-1/4	7-3/16	7-5/8	9-3/8	13-1/16	184T	256T	334	537
180	43-1/8	45-1/4	3	1-3/16	1-11/16	9/16	3/4	1-5/8	9	11-1/4	4	22-7/8	9-5/8	12-1/4	7-3/4	8-3/16	10-3/8	13-1/16	215T	256T	396	605
195	46-3/8	47-1/8	3	1-3/16	1-11/16	9/16	3/4	1-5/8	9	12	4	24-1/2	9-5/8	13	8-5/16	8-13/16	10-3/8	13-7/8	215T	256T	440	657
210	49-3/4	49-15/16	4	1-7/16	1-11/16	9/16	3/4	1-5/8	10	12	5	26-3/16	10-5/8	13	8-7/8	9-3/8	11-3/8	13-7/8	215T	256T	490	696
225	53	53-3/16	4	1-7/16	1-11/16	9/16	3/4	1-5/8	10-1/2	12-1/16	5	27-13/16	11-1/8	13-1/8	9-7/16	10-1/16	11-7/8	14-1/8	215T	256T	537	783
245	58-1/4	58-7/16	4	1-11/16	1-15/16	11/16	1	2-1/8	11-1/2	13-1/8	5	31	12-3/8	13-15/16	10-1/2	10-5/8	13-3/8	14-15/16	215T	256T	608	958
270	63-3/4	63-15/16	4	1-11/16	1-15/16	11/16	1	2-1/8	12-1/2	13-1/8	5	33-3/4	13-3/8	14-7/16	11-7/16	12-1/16	14-3/8	15-11/16	256T	286T	722	1073
300	71-1/4	70-1/2	4	1-15/16	2-3/16	11/16	1	2-1/8	13-1/2	13-11/16	5	37	14-5/16	15-1/16	12-5/8	13-5/16	15-5/16	16-5/16	256T	286T	879	1317
330	76-3/4	77	4	1-15/16	2-3/16	13/16	1	2-1/8	15	15-1/4	5	40-5/16	15-13/16	16-5/8	13-3/4	14-9/16	16-13/16	18	256T	326T	1035	1599
365	84-1/2	84-3/4	5	2-3/16	2-7/16	13/16	1	2-1/8	16	16-3/16	6	44-3/16	16-13/16	17-13/16	15-1/16	16-1/8	17-13/16	19-3/8	324T	326T	1230	1939
402	92-1/2		5	2-3/16		13/16	1	2-1/8	18		6	48-5/16	18-13/16		17		19-13/16		324T		1519	
445	101-3/4		5	2-7/16		13/16	1	2-1/8	20		6	52-15/16	20-13/16		18-5/8		21-13/16		326T		1938	
490	111-1/2		5	2-7/16		13/16	1	2-1/8	22		6	57-7/8	22-13/16		20-3/8		23-13/16		326T		2319	

All dimensions in inches. Weight in lbs., less motor. For other discharge dimensions, please consult page 17, Compute-A-Fan®, an authorized representative or the factory.

*Based on open drip proof, single speed.

Centrifugal Utility Vent Set Blower Backward Inclined Wheel Aluminum Wheel and Housing Belt Drive



Loren Cook Company certifies that the CPA 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 CPA is furnished standard with UL 705 listing (cUL 705) when furnished with factory supplied motor.

Type CPA is available with UL 762 listing (cUL 762) when furnished with factory supplied motor.

Description: Fan shall be a single width, single inlet, backward inclined flat blade, belt driven centrifugal vent set featuring spark resistant Type A construction.

Certifications: Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL/cUL 705) for US and Canada. For restaurant applications, fan shall be listed by Underwriters Laboratories (UL/cUL762) for US and Canada. Fan shall bear the AMCA Certified Ratings Seal for Sound and Air performance.

Construction: The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper shall be minimum 0.100" aluminum and the scroll side panels shall be minimum 0.100" aluminum. The entire fan housing shall have continuously welded seams for leakproof operation. A performance cut-off shall be furnished to prevent the recirculation of air in the fan housing. The fan housing shall be field rotatable to any one of eight discharge positions and shall have a minimum 1-1/2 inch outlet discharge flange. Bearing support shall be minimum 10 gauge welded steel. Side access inspection ports shall be provided with quick release latches for access to the motor compartment without removing the weather cover. Lifting lugs shall be provided for ease of installation. 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 powder coated 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 aluminum centrifugal backward inclined, non-overloading flat blade type. Blades shall be continuously welded to the backplate and deep spun inlet shroud. Wheel hub shall be keyed and securely attached to the fan shaft. Wheel inlet 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.

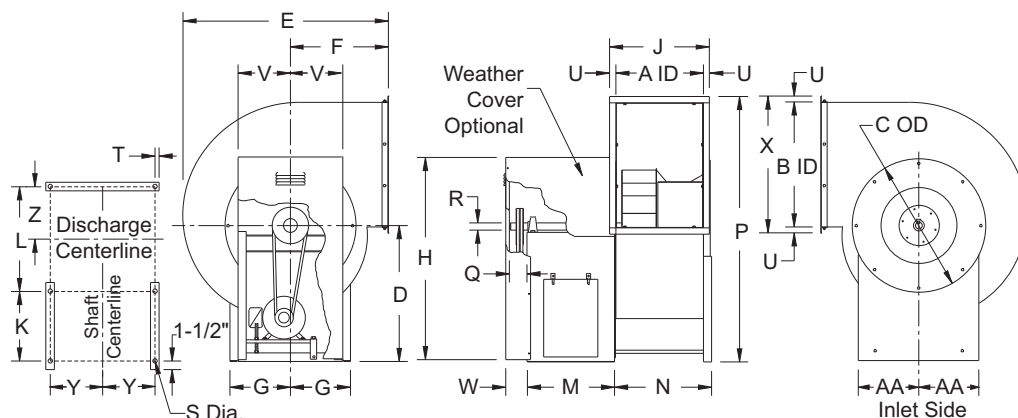
Motor: Motor shall be NEMA Design B with Class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

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 pillowblock housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

Blower Shaft: Blower shaft shall be Type 316 Stainless Steel accurately turned, ground and polished. Shafting shall be sized for a critical speed of at least 125% of maximum RPM.

Belts and Drives: Belts shall be oil and heat resistant, static conducting. 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 CPA as manufactured by Loren Cook Company of Springfield, Missouri.



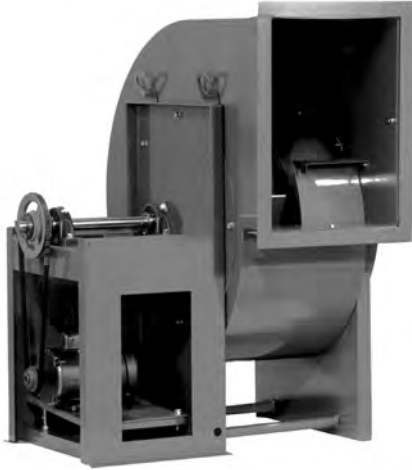
CPA Dimensions

Size	A	B	C	D		E	F	G		H		J	K		L		M		N	
				Class I	Class II			Class I	Class II	Class I	Class II		Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II
60	7-9/16	10-15/16	14-1/8	18		22-1/4	12-3/4	9-3/8		25-1/4		10-3/4	10		10-1/4		13-1/8		9-3/8	
70	7-9/16	10-15/16	14-1/8	18		22-1/4	12-3/4	9-3/8		25-1/4		10-3/4	10		10-1/4		13-1/8		9-3/8	
80	7-9/16	10-15/16	14-1/8	18		22-1/4	12-3/4	9-3/8		25-1/4		10-3/4	10		10-1/4		13-1/8		9-3/8	
100	7-9/16	10-15/16	14-1/8	18		22-1/4	12-3/4	9-3/8		25-1/4		10-3/4	10		10-1/4		13-1/8		9-3/8	
120	9-3/16	13-1/8	16-1/8	18	22	24-13/16	13-3/8	9-3/8	10-3/8	26-1/4	30-1/4	12-3/8	10	18	11-7/8	12-5/16	13-1/8	21-1/8	11	11-1/4
135	10-5/16	14-3/4	17-5/8	18	22	26-11/16	13-7/8	9-3/8	10-3/8	27	31	13-1/2	12	18	13	13-7/16	15-1/8	21-1/8	12-1/8	12-3/8
150	11-7/16	16-7/16	19-1/8	19-1/16	22	29-9/16	15-5/16	9-3/8	10-7/8	29-1/16	32	14-5/8	12	18	14-1/8	14-9/16	15-1/8	21-1/8	13-1/4	13-1/2
165	12-5/8	18-1/16	21-3/16	20-7/16	24	32-1/16	16-3/8	9-3/8	13	31-7/16	35	15-13/16	12	22-1/8	15-5/16	16-1/8	15-1/8	25-1/4	14-7/16	15-1/16
180	13-3/4	19-11/16	22-11/16	22-1/16	24	34-3/4	17-5/8	10-3/8	13	33-9/16	35-1/2	16-15/16	12	22-1/8	16-7/16	17-1/4	15-1/8	25-1/4	15-9/16	16-3/16
195	14-15/16	21-5/16	24-3/16	23-11/16	24-1/4	36-5/16	17-13/16	10-3/8	13-3/4	35-11/16	36-1/4	18-3/16	15	22-1/8	17-5/8	18-1/2	18-1/8	25-1/4	16-3/4	17-3/8
210	16-1/16	23	25-15/16	25-3/8	25-3/8	39-15/16	20	11-3/8	13-3/4	38-7/8	39	19-5/16	15	22-1/8	18-3/4	19-5/8	18-1/8	25-1/4	17-7/8	18-1/2
225	17-3/16	24-5/8	27-7/16	27	27	42	20-5/8	11-7/8	13-7/8	41	41	20-7/16	15	22-1/8	19-7/8	20-7/8	18-1/8	25-1/4	19	19-3/4
245	18-3/4	26-13/16	29-7/16	29-5/8	29-5/8	45-1/16	21-3/4	13-3/8	14-15/16	44-5/8	44-5/8	23	15	24-1/8	21-11/16	22-5/16	18-1/8	27-5/16	21-1/16	21-5/16
270	20-5/8	29-9/16	31-15/16	32-3/8	32-3/8	49-1/16	23-3/8	14-3/8	15-7/16	48-7/8	48-7/8	24-7/8	18	24-1/8	23-9/16	24-11/16	21-1/8	27-5/16	22-5/16	23-11/16
300	22-15/16	32-13/16	34-15/16	35-5/8	35-5/8	54-3/8	25-7/8	15-5/16	16-1/16	53-5/8	53-5/8	27-3/16	18	26	26	27-3/16	21-3/16	29-3/16	25-5/16	26-3/16
330	25-1/4	36-1/8	37-15/16	38-7/8	38-7/8	59-13/16	28-7/16	16-13/16	17-5/8	58-3/8	58-3/8	29-7/16	18	26	28-5/16	29-9/16	21-3/16	29-3/16	27-5/8	28-9/16
365	27-7/8	39-15/16	41-7/16	42-3/4	42-3/4	66-1/8	31-7/16	17-13/16	18-13/16	64-1/4	64-1/4	32-1/16	21	26	30-15/16	31-7/16	24-3/16	29-1/4	30-1/4	31-7/16
402	30-3/4	44-1/16	45-3/16	46-3/4		72-15/16	34-11/16	19-13/16		70-1/4		34-15/16	21		34-5/16		24-3/16		34-1/8	
445	34	48-11/16	49-7/16	51-3/8		80-9/16	38-5/16	21-13/16		76-7/8		38-3/16	25		37-9/16		28-3/16		37-3/8	
490	37-7/16	53-5/8	55	56-1/4		88-3/4	42-3/16	23-13/16		84-1/4		41-5/8	25		41		28-3/16		40-13/16	

Size	P		Q	R		S	T	U	V		W	X	Y		Z		AA		Max. Motor Frame *		Ship Wt.	
	Class I	Class II		Class I	Class II				Class I	Class II			Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II
60	30-3/8		3	1		9/16	3/4	1-5/8	8		4	14-1/16	8-5/8		4-5/8		9-3/8		145T		118	
70	30-3/8		3	1		9/16	3/4	1-5/8	8		4	14-1/16	8-5/8		4-5/8		9-3/8		145T		118	
80	30-3/8		3	1		9/16	3/4	1-5/8	8		4	14-1/16	8-5/8		4-5/8		9-3/8		145T		118	
100	30-3/8		3	1		9/16	3/4	1-5/8	8		4	14-1/16	8-5/8		4-5/8		9-3/8		145T		118	
120	32-9/16	36-3/4	3	1	1-7/16	9/16	3/4	1-5/8	8	9	4	16-5/16	8-5/8	9-5/8	5-7/16	5-9/16	9-3/8	10-1/2	184T	215T	153	303
135	34-3/16	38-3/8	3	1	1-7/16	9/16	3/4	1-5/8	8	9	4	17-15/16	8-5/8	9-5/8	6	6-1/8	9-3/8	10-7/16	184T	215T	180	312
150	37-1/8	40-1/4	3	1	1-7/16	9/16	3/4	1-5/8	8	9-1/2	4	19-5/8	8-5/8	10-1/8	6-9/16	6-11/16	9-3/8	10-15/16	184T	256T	208	344
165	39-7/8	43-5/8	3	1	1-7/16	9/16	3/4	1-5/8	8	11-1/4	4	21-1/4	8-5/8	12-1/4	7-3/16	7-5/8	9-3/8	13-1/16	184T	256T	237	435
180	43-1/8	45-1/4	3	1-3/16	1-11/16	9/16	3/4	1-5/8	9	11-1/4	4	22-7/8	9-5/8	12-1/4	7-3/4	8-3/16	10-3/8	13-1/16	215T	256T	266	467
195	46-3/8	47-1/8	3	1-3/16	1-11/16	9/16	3/4	1-5/8	9	12	4	24-1/2	9-5/8	13	8-5/16	8-13/16	10-3/8	13-7/8	215T	256T	297	503
210	49-3/4	49-15/16	4	1-7/16	1-11/16	9/16	3/4	1-5/8	10	12	5	26-3/16	10-5/8	13	8-7/8	9-3/8	11-3/8	13-7/8	215T	256T	329	527
225	53	53-3/16	4	1-7/16	1-11/16	9/16	3/4	1-5/8	10-1/2	12-1/16	5	27-13/16	11-1/8	13-1/8	9-7/16	10-1/16	11-7/8	14-1/8	215T	256T	361	595
245	58-1/4	58-7/16	4	1-11/16	1-15/16	11/16	1	2-1/8	11-1/2	13-1/8	5	31	12-3/8	13-15/16	10-1/2	10-5/8	13-3/8	14-15/16	215T	256T	406	734
270	63-3/4	63-15/16	4	1-11/16	1-15/16	11/16	1	2-1/8	12-1/2	13-1/8	5	33-3/4	13-3/8	14-7/16	11-7/16	12-1/16	14-3/8	15-11/16	256T	286T	463	798
300	71-1/4	70-1/2	4	1-15/16	2-3/16	11/16	1	2-1/8	13-1/2	13-11/16	5	37	14-5/16	15-1/16	12-5/8	13-5/16	15-5/16	16-5/16	256T	286T	535	942
330	76-3/4	77	4	1-15/16	2-3/16	13/16	1	2-1/8	15	15-1/4	5	40-5/16	15-13/16	16-5/8	13-3/4	14-9/16	16-13/16	18	256T	326T	604	1132
365	84-1/2	84-3/4	5	2-3/16	2-7/16	13/16	1	2-1/8	16	16-3/16	6	44-3/16	16-13/16	17-13/16	15-1/16	16-1/8	17-13/16	19-3/8	324T	326T	699	1360
402	92-1/2		5	2-3/16		13/16	1	2-1/8	18		6	48-5/16	18-13/16		17		19-13/16		324T		797	
445	101-3/4		5	2-7/16		13/16	1	2-1/8	20		6	52-15/16	20-13/16		18-5/8		21-13/16		326T		915	
490	111-1/2		5	2-7/16		13/16	1	2-1/8	22		6	57-7/8	22-13/16		20-3/8		23-13/16		326T		1044	

All dimensions in inches. Weight in lbs., less motor. For other discharge dimensions, please consult page 17, Compute-A-Fan®, an authorized representative or the factory.
 *Based on open drip proof, single speed.

Centrifugal Utility Vent Set Blower Airfoil Wheel Steel Construction Belt Drive



Loren Cook Company certifies that the CPS-A 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 CPS-A is furnished standard with UL 705 listing (cUL 705) when furnished with factory supplied motor.

Type CPS-A is available with UL 762 listing (cUL 762) when furnished with factory supplied motor.

Type CPS-A is available with UL Power Ventilator for Smoke Control Systems Listing when furnished with factory supplied motor.

Description: Fan shall be a single width, single inlet, backward inclined airfoil, belt driven centrifugal vent set.

Certifications: Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL/cUL 705) for US and Canada. For restaurant applications, fan shall be listed by Underwriters Laboratories (UL/cUL 762) for US and Canada. For smoke control applications, fan shall be listed by Underwriters Laboratories (Power Ventilator for Smoke Control Systems) for US and Canada. Fan shall bear the AMCA Certified Ratings Seal for Sound and Air performance.

Construction: The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper shall be a minimum 14 gauge steel and the scroll side panels shall be a minimum 12 gauge steel. The entire fan housing shall have continuously welded seams for leakproof operation. A performance cut-off shall be furnished to prevent the recirculation of air in the fan housing. The fan housing shall be field rotatable to any one of eight discharge positions and shall have a minimum 1-1/2 inch outlet discharge flange. Bearing support shall be minimum 10 gauge welded steel. Side access inspection ports shall be provided with quick release latches for access to the motor compartment without removing the weather cover. Lifting lugs shall be provided for ease of installation. 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 centrifugal airfoil blade type. Blades shall be continuously welded to the backplate and deep spun inlet shroud. Wheel hub shall be keyed and securely attached to the fan shaft. Wheel inlet 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.

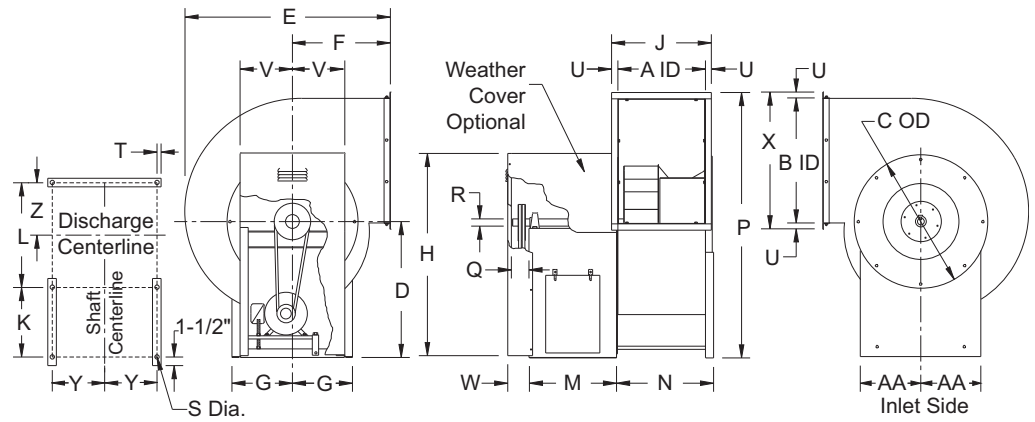
Motor: Motor shall be NEMA Design B with Class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

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 pillowblock housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

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.

Belts and Drives: Belts shall be oil and heat resistant, static conducting. 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 CPS-A as manufactured by Loren Cook Company of Springfield, Missouri.



CPS-A Dimensions

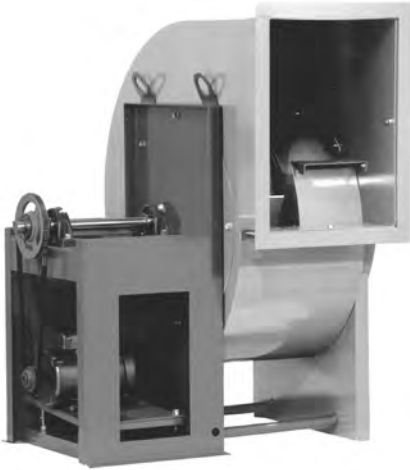
Size	A	B	C	D		E	F	G		H		J	K		L		M		N	
				Class I	Class II			Class I	Class II	Class I	Class II		Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II
120	9-3/16	13-1/8	16-1/8	18	22	24-13/16	13-3/8	9-3/8	10-3/8	26-1/4	30-1/4	12-3/8	10	18	11-7/8	12-5/16	13-1/8	21-1/8	11	11-1/4
135	10-5/16	14-3/4	17-5/8	18	22	26-11/16	13-7/8	9-3/8	10-3/8	27	31	13-1/2	12	18	13	13-7/16	15-1/8	21-1/8	12-1/8	12-3/8
150	11-7/16	16-7/16	19-1/8	19-1/16	22	29-9/16	15-5/16	9-3/8	10-7/8	29-1/16	32	14-5/8	12	18	14-1/8	14-9/16	15-1/8	21-1/8	13-1/4	13-1/2
165	12-5/8	18-1/16	21-3/16	20-7/16	24	32-1/16	16-3/8	9-3/8	13	31-7/16	35	15-13/16	12	22-1/8	15-5/16	16-1/8	15-1/8	25-1/4	14-7/16	15-1/16
180	13-3/4	19-11/16	22-11/16	22-1/16	24	34-3/4	17-5/8	10-3/8	13	33-9/16	35-1/2	16-15/16	12	22-1/8	16-7/16	17-1/4	15-1/8	25-1/4	15-9/16	16-3/16
195	14-15/16	21-5/16	24-3/16	23-11/16	24-1/4	36-5/16	17-13/16	10-3/8	13-3/4	35-11/16	36-1/4	18-3/16	15	22-1/8	17-5/8	18-1/2	18-1/8	25-1/4	16-3/4	17-3/8
210	16-1/16	23	25-15/16	25-3/8	25-3/8	39-15/16	20	11-3/8	13-3/4	38-7/8	39	19-5/16	15	22-1/8	18-3/4	19-5/8	18-1/8	25-1/4	17-7/8	18-1/2
225	17-3/16	24-5/8	27-7/16	27	27	42	20-5/8	11-7/8	13-7/8	41	41	20-7/16	15	22-1/8	19-7/8	20-7/8	18-1/8	25-1/4	19	19-3/4
245	18-3/4	26-13/16	29-7/16	29-5/8	29-5/8	45-1/16	21-3/4	13-3/8	14-15/16	44-5/8	44-5/8	23	15	24-1/8	21-11/16	22-5/16	18-1/8	27-5/16	21-1/16	21-5/16
270	20-5/8	29-9/16	31-15/16	32-3/8	32-3/8	49-1/16	23-3/8	14-3/8	15-7/16	48-7/8	48-7/8	24-7/8	18	24-1/8	23-9/16	24-11/16	21-1/8	27-5/16	22-15/16	23-11/16
300	22-15/16	32-13/16	34-15/16	35-5/8	35-5/8	54-3/8	25-7/8	15-5/16	16-1/16	53-5/8	53-5/8	27-3/16	18	26	26	27-3/16	21-3/16	29-3/16	25-5/16	26-3/16
330	25-1/4	36-1/8	37-15/16	38-7/8	38-7/8	59-13/16	28-7/16	16-13/16	17-5/8	58-3/8	58-3/8	29-7/16	18	26	28-5/16	29-9/16	21-3/16	29-3/16	27-5/8	28-9/16
365	27-7/8	39-15/16	41-7/16	42-3/4	42-3/4	66-1/8	31-7/16	17-13/16	18-13/16	64-1/4	64-1/4	32-1/16	21	26	30-15/16	31-7/16	24-3/16	29-1/4	30-1/4	31-7/16
402	30-3/4	44-11/16	45-3/16	46-3/4	-	72-15/16	34-11/16	19-13/16	-	70-1/4	-	34-15/16	21	-	34-5/16	-	24-3/16	-	34-1/8	-
445	34	48-11/16	49-7/16	51-3/8	-	80-9/16	38-5/16	21-13/16	-	76-7/8	-	38-3/16	25	-	37-9/16	-	28-3/16	-	37-3/8	-
490	37-7/16	53-5/8	55	56-1/4	-	88-3/4	42-3/16	23-13/16	-	84-1/4	-	41-5/8	25	-	41	-	28-3/16	-	40-13/16	-

Size	P		Q	R		S	T	U	V		W	X	Y		Z		AA		Max. Motor Frame *		Ship Wt.	
	Class I	Class II		Class I	Class II				Class I	Class II			Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II
120	32-9/16	36-3/4	3	1	1-7/16	9/16	3/4	1-5/8	8	9	4	16-5/16	8-5/8	9-5/8	5-7/16	5-9/16	9-3/8	10-1/2	184T	215T	225	375
135	34-3/16	38-3/8	3	1	1-7/16	9/16	3/4	1-5/8	8	9	4	17-15/16	8-5/8	9-5/8	6	6-1/8	9-3/8	10-7/16	184T	215T	260	392
150	37-1/8	40-1/4	3	1	1-7/16	9/16	3/4	1-5/8	8	9-1/2	4	19-5/8	8-5/8	10-1/8	6-9/16	6-11/16	9-3/8	10-15/16	184T	256T	297	435
165	39-7/8	43-5/8	3	1	1-7/16	9/16	3/4	1-5/8	8	11-1/4	4	21-1/4	8-5/8	12-1/4	7-3/16	7-5/8	9-3/8	13-1/16	184T	256T	341	538
180	43-1/8	45-1/4	3	1-3/16	1-11/16	9/16	3/4	1-5/8	9	11-1/4	4	22-7/8	9-5/8	12-1/4	7-3/4	8-3/16	10-3/8	13-1/16	215T	256T	404	602
195	46-3/8	47-1/8	3	1-3/16	1-11/16	9/16	3/4	1-5/8	9	12	4	24-1/2	9-5/8	13	8-5/16	8-13/16	10-3/8	13-7/8	215T	256T	450	652
210	49-3/4	49-15/16	4	1-7/16	1-11/16	9/16	3/4	1-5/8	10	12	5	26-3/16	10-5/8	13	8-7/8	9-3/8	11-3/8	13-7/8	215T	256T	499	692
225	53	53-3/16	4	1-7/16	1-11/16	9/16	3/4	1-5/8	10-1/2	12-1/16	5	27-13/16	11-1/8	13-1/8	9-7/16	10-1/16	11-7/8	14-1/8	215T	256T	547	777
245	58-1/4	58-7/16	4	1-11/16	1-15/16	11/16	1	2-1/8	11-1/2	13-1/8	5	31	12-3/8	13-15/16	10-1/2	10-5/8	13-3/8	14-15/16	215T	256T	620	952
270	63-3/4	63-15/16	4	1-11/16	1-15/16	11/16	1	2-1/8	12-1/2	13-1/8	5	33-3/4	13-3/8	14-7/16	11-7/16	12-1/16	14-3/8	15-11/16	256T	286T	736	1064
300	71-1/4	70-1/2	4	1-15/16	2-3/16	11/16	1	2-1/8	13-1/2	13-11/16	5	37	14-5/16	15-1/16	12-5/8	13-5/16	15-5/16	16-5/16	256T	286T	897	1291
330	76-3/4	77	4	1-15/16	2-3/16	13/16	1	2-1/8	15	15-1/4	5	40-5/16	15-13/16	16-5/8	13-3/4	14-9/16	16-13/16	18	256T	326T	1056	1566
365	84-1/2	84-3/4	5	2-3/16	2-7/16	13/16	1	2-1/8	16	16-3/16	6	44-3/16	16-13/16	17-13/16	15-1/16	16-1/8	17-13/16	19-3/8	324T	326T	1277	1942
402	92-1/2	-	5	2-3/16	-	13/16	1	2-1/8	18	-	6	48-5/16	18-13/16	-	17	19-13/16	-	-	324T	-	1556	-
445	101-3/4	-	5	2-7/16	-	13/16	1	2-1/8	20	-	6	52-15/16	20-13/16	-	18-5/8	-	-	-	326T	-	1984	-
490	111-1/2	-	5	2-7/16	-	13/16	1	2-1/8	22	-	6	57-7/8	22-13/16	-	20-3/8	-	-	-	326T	-	2375	-

All dimensions in inches. Weight in lbs., less motor. For other discharge dimensions, please consult page 17, Compute-A-Fan®, an authorized representative or the factory.

*Based on open drip proof, single speed.

Centrifugal Utility Vent Set Blower Airfoil Wheel Aluminum Wheel and Housing Belt Drive



Loren Cook Company certifies that the CPA-A 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 CPA-A is furnished standard with UL 705 listing (cUL 705) when furnished with factory supplied motor.

Type CPA-A is available with UL 762 listing (cUL 762) when furnished with factory supplied motor.

Description: Fan shall be a single width, single inlet, backward inclined airfoil, belt driven centrifugal vent set featuring spark resistant Type A construction.

Certifications: Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL/cUL 705) for US and Canada. For restaurant applications, fan shall be listed by Underwriters Laboratories (UL/cUL 762) for US and Canada. Fan shall bear the AMCA Certified Ratings Seal for Sound and Air Performance.

Construction: The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper shall be a minimum 0.100" aluminum and the scroll side panels shall be a minimum 0.100" aluminum. The entire fan housing shall have continuously welded seams for leakproof operation. A performance cut-off shall be furnished to prevent the recirculation of air in the fan housing. The fan housing shall be field rotatable to any one of eight discharge positions and shall have a minimum 1-1/2 inch outlet discharge flange. Bearing support shall be minimum 10 gauge welded steel. Side access inspection ports shall be provided with quick release latches for access to the motor compartment without removing the weather cover. Lifting lugs shall be provided for ease of installation. 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 powder coated 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 aluminum centrifugal airfoil blade type. Blades shall be continuously welded to the backplate and deep spun inlet shroud. Wheel hub shall be keyed and securely attached to the fan shaft. Wheel inlet 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.

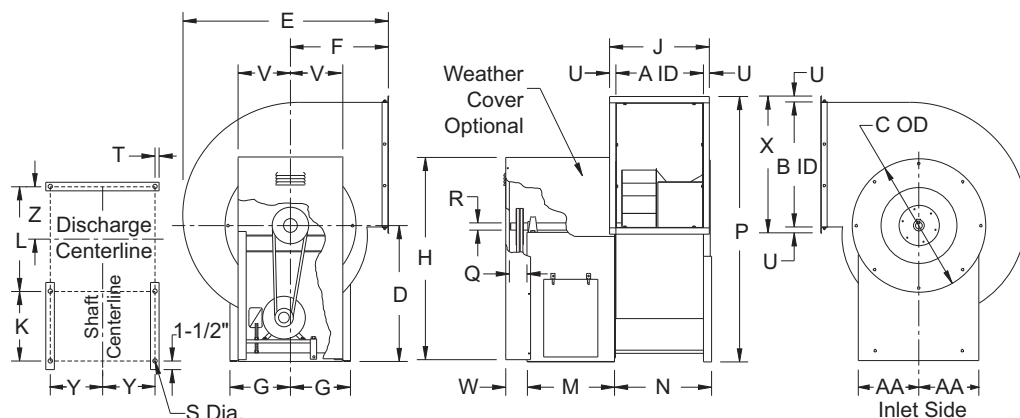
Motor: Motor shall be NEMA Design B with Class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

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 pillowblock housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

Blower Shaft: Blower shaft shall be Type 316 Stainless Steel accurately turned, ground and polished. Shafting shall be sized for a critical speed of at least 125% of maximum RPM.

Belts and Drives: Belts shall be oil and heat resistant, static conducting. 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 CPA-A as manufactured by Loren Cook Company of Springfield, Missouri.



CPA-A Dimensions

Size	A	B	C	D		E	F	G		H		J	K		L		M		N	
				Class I	Class II			Class I	Class II	Class I	Class II		Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II
120	9-3/16	13-1/8	16-1/8	18	22	24-13/16	13-3/8	9-3/8	10-3/8	26-1/4	30-1/4	12-3/8	10	18	11-7/8	12-5/16	13-1/8	21-1/8	11	11-1/4
135	10-5/16	14-3/4	17-5/8	18	22	26-11/16	13-7/8	9-3/8	10-3/8	27	31	13-1/2	12	18	13	13-7/16	15-1/8	21-1/8	12-1/8	12-3/8
150	11-7/16	16-7/16	19-1/8	19-1/16	22	29-9/16	15-5/16	9-3/8	10-7/8	29-1/16	32	14-5/8	12	18	14-1/8	14-9/16	15-1/8	21-1/8	13-1/4	13-1/2
165	12-5/8	18-1/16	21-3/16	20-7/16	24	32-1/16	16-3/8	9-3/8	13	31-7/16	35	15-13/16	12	22-1/8	15-5/16	16-1/8	15-1/8	25-1/4	14-7/16	15-1/16
180	13-3/4	19-11/16	22-11/16	22-1/16	24	34-3/4	17-5/8	10-3/8	13	33-9/16	35-1/2	16-15/16	12	22-1/8	16-7/16	17-1/4	15-1/8	25-1/4	15-9/16	16-3/16
195	14-15/16	21-5/16	24-3/16	23-11/16	24-1/4	36-5/16	17-13/16	10-3/8	13-3/4	35-11/16	36-1/4	18-3/16	15	22-1/8	17-5/8	18-1/2	18-1/8	25-1/4	16-3/4	17-3/8
210	16-1/16	23	25-15/16	25-3/8	25-3/8	39-15/16	20	11-3/8	13-3/4	38-7/8	39	19-5/16	15	22-1/8	18-3/4	19-5/8	18-1/8	25-1/4	17-7/8	18-1/2
225	17-3/16	24-5/8	27-7/16	27	27	42	20-5/8	11-7/8	13-7/8	41	41	20-7/16	15	22-1/8	19-7/8	20-7/8	18-1/8	25-1/4	19	19-3/4
245	18-3/4	26-13/16	29-7/16	29-5/8	29-5/8	45-1/16	21-3/4	13-3/8	14-15/16	44-5/8	44-5/8	23	15	24-1/8	21-11/16	22-5/16	18-1/8	27-5/16	21-1/16	21-5/16
270	20-5/8	29-9/16	31-15/16	32-3/8	32-3/8	49-1/16	23-3/8	14-3/8	15-7/16	48-7/8	48-7/8	24-7/8	18	24-1/8	23-9/16	24-11/16	21-1/8	27-5/16	22-15/16	23-11/16
300	22-15/16	32-13/16	34-15/16	35-5/8	35-5/8	54-3/8	25-7/8	15-5/16	16-1/16	53-5/8	53-5/8	27-3/16	18	26	26	27-3/16	21-3/16	29-3/16	25-5/16	26-3/16
330	25-1/4	36-1/8	37-15/16	38-7/8	38-7/8	59-13/16	28-7/16	16-13/16	17-5/8	58-3/8	58-3/8	29-7/16	18	26	28-5/16	29-9/16	21-3/16	29-3/16	27-5/8	28-9/16
365	27-7/8	39-15/16	41-7/16	42-3/4	42-3/4	66-1/8	31-7/16	17-13/16	18-13/16	64-1/4	64-1/4	32-1/16	21	26	30-15/16	31-7/16	24-3/16	29-1/4	30-1/4	31-7/16
402	30-3/4	44-1/16	45-3/16	46-3/4	-	72-15/16	34-11/16	19-13/16	-	70-1/4	-	34-15/16	21	-	34-5/16	-	24-3/16	-	34-1/8	-
445	34	48-11/16	49-7/16	51-3/8	-	80-9/16	38-5/16	21-13/16	-	76-7/8	-	38-3/16	25	-	37-9/16	-	28-3/16	-	37-3/8	-
490	37-7/16	53-5/8	55	56-1/4	-	88-3/4	42-3/16	23-13/16	-	84-1/4	-	41-5/8	25	-	41	-	28-3/16	-	40-13/16	-

Size	P		Q	R		S	T	U	V		W	X	Y		Z		AA		Max. Motor Frame *		Ship Wt.	
	Class I	Class II		Class I	Class II				Class I	Class II			Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II
120	32-9/16	36-3/4	3	1	1-7/16	9/16	3/4	1-5/8	8	9	4	16-5/16	8-5/8	9-5/8	5-7/16	5-9/16	9-3/8	10-1/2	184T	215T	163	313
135	34-3/16	38-3/8	3	1	1-7/16	9/16	3/4	1-5/8	8	9	4	17-15/16	8-5/8	9-5/8	6	6-1/8	9-3/8	10-7/16	184T	215T	191	323
150	37-1/8	40-1/4	3	1	1-7/16	9/16	3/4	1-5/8	8	9-1/2	4	19-5/8	8-5/8	10-1/8	6-9/16	6-11/16	9-3/8	10-15/16	184T	256T	222	358
165	39-7/8	43-5/8	3	1	1-7/16	9/16	3/4	1-5/8	8	11-1/4	4	21-1/4	8-5/8	12-1/4	7-3/16	7-5/8	9-3/8	13-1/16	184T	256T	253	450
180	43-1/8	45-1/4	3	1-3/16	1-11/16	9/16	3/4	1-5/8	9	11-1/4	4	22-7/8	9-5/8	12-1/4	7-3/4	8-3/16	10-3/8	13-1/16	215T	256T	286	384
195	46-3/8	47-1/8	3	1-3/16	1-11/16	9/16	3/4	1-5/8	9	12	4	24-1/2	9-5/8	13	8-5/16	8-13/16	10-3/8	13-7/8	215T	256T	320	413
210	49-3/4	49-15/16	4	1-7/16	1-11/16	9/16	3/4	1-5/8	10	12	5	26-3/16	10-5/8	13	8-7/8	9-3/8	11-3/8	13-7/8	215T	256T	353	547
225	53	53-3/16	4	1-7/16	1-11/16	9/16	3/4	1-5/8	10-1/2	12-1/16	5	27-13/16	11-1/8	13-1/8	9-7/16	10-1/16	11-7/8	14-1/8	215T	256T	391	621
245	58-1/4	58-7/16	4	1-11/16	1-15/16	11/16	1	2-1/8	11-1/2	13-1/8	5	31	12-3/8	13-15/16	10-1/2	10-5/8	13-3/8	14-15/16	215T	256T	442	765
270	63-3/4	63-15/16	4	1-11/16	1-15/16	11/16	1	2-1/8	12-1/2	13-1/8	5	33-3/4	13-3/8	14-7/16	11-7/16	12-1/16	14-3/8	15-11/16	256T	286T	505	833
300	71-1/4	70-1/2	4	1-15/16	2-3/16	11/16	1	2-1/8	13-1/2	13-11/16	5	37	14-5/16	15-1/16	12-5/8	13-5/16	15-5/16	16-5/16	256T	286T	585	981
330	76-3/4	77	4	1-15/16	2-3/16	13/16	1	2-1/8	15	15-1/4	5	40-5/16	15-13/16	16-5/8	13-3/4	14-9/16	16-13/16	18	256T	326T	670	1184
365	84-1/2	84-3/4	5	2-3/16	2-7/16	13/16	1	2-1/8	16	16-3/16	6	44-3/16	16-13/16	17-13/16	15-1/16	16-1/8	17-13/16	19-3/8	324T	326T	783	1435
402	92-1/2	-	5	2-3/16	-	13/16	1	2-1/8	18	-	6	48-5/16	18-13/16	-	17	19-13/16	-	-	324T	-	898	-
445	101-3/4	-	5	2-7/16	-	13/16	1	2-1/8	20	-	6	52-15/16	20-13/16	-	18-5/8	-	-	-	326T	-	1040	-
490	111-1/2	-	5	2-7/16	-	13/16	1	2-1/8	22	-	6	57-7/8	22-13/16	-	20-3/8	-	-	-	326T	-	1191	-

All dimensions in inches. Weight in lbs., less motor. For other discharge dimensions, please consult page 17, Compute-A-Fan®, an authorized representative or the factory.
 *Based on open drip proof, single speed.

Centrifugal Vent Set Blower Forward Curved Wheel Belt Drive



Loren Cook Company certifies that the CPFB 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 CPFB is furnished standard with UL 705 listing (cUL 705) when furnished with factory supplied motor.

Description: Fan shall be a single width, single inlet, forward curved, belt driven centrifugal vent set.

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

Construction: The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper shall be minimum 14 gauge steel and the scroll side panels shall be minimum 12 gauge steel. The entire fan housing shall have continuously welded seams for leakproof operation. The fan housing shall be field rotatable to any one of eight discharge positions and shall have a minimum 1-1/2 inch outlet discharge flange. Bearing support shall be minimum 10 gauge welded steel. Side access inspection ports shall be provided with quick release latches for access to the motor compartment without removing the weather cover. Lifting lugs shall be provided for ease of installation. 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 centrifugal forward curved type. Wheel hub shall be keyed and securely attached to the fan shaft. Wheel shall utilize 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.

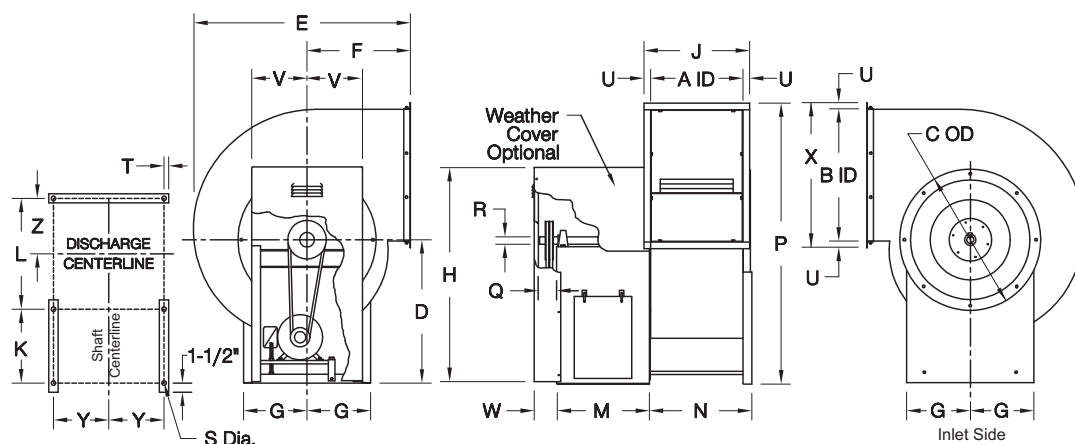
Motor: Motor shall be NEMA Design B with Class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

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 pillowblock 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, static conducting. 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 CPFB as manufactured by Loren Cook Company of Springfield, Missouri.



CPFB Dimensions

Size	A	B	C	D	E	F	G	H	J	K	L	M
100	7-9/16	10-15/16	14-1/2	18	22-1/4	12-3/4	9-3/8	25-1/4	10-3/4	10	10-1/4	13-1/8
120	9-3/16	13-1/8	16-3/4	18	24-13/16	13-3/8	9-3/8	26-1/4	12-5/16	10	11-7/8	13-1/8
150	11-7/16	16-7/16	19-1/2	19-1/16	29-9/16	15-5/16	9-3/8	29-1/16	14-9/16	12	14-1/8	15-1/8
180	13-3/4	19-11/16	22-1/2	22-1/16	34-3/4	17-5/8	10-3/8	33-9/16	16-7/8	12	16-7/16	15-1/8
220	17-3/16	24-5/8	27-1/4	27	42	20-5/8	11-7/8	41	20-5/16	15	20	18-1/8
250	18-3/4	26-13/16	29-1/4	29-5/8	45-1/16	21-3/4	13-3/8	44-5/8	22-7/8	15	21-3/4	18-1/8
270	20-5/8	29-9/16	31-3/4	32-3/8	49-1/16	23-3/8	14-3/8	48-7/8	24-3/4	18	23-5/8	21-1/8
300	22-15/16	32-13/16	34-3/4	35-5/8	54-3/8	25-7/8	15-5/16	53-5/8	27-1/16	18	26	21-3/16

Size	N	P	Q	R	S	T	U	V	W	X	Y	Z	Max. Motor Frame *	Ship Wt.
100	9-3/8	30-3/8	3	3/4	9/16	3/4	1-1/2	8-1/16	4-1/16	14-1/16	8-5/8	4-11/16	145T	165
120	11	32-9/16	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	16-1/4	8-5/8	5-1/2	184T	204
150	13-1/4	37-1/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	19-9/16	8-5/8	6-1/16	184T	273
180	15-5/8	43-1/8	3	1	9/16	3/4	1-1/2	9-1/16	4-1/16	22-13/16	9-5/8	7-13/16	215T	353
220	19-1/8	53	4	1-3/16	9/16	3/4	1-1/2	10-9/16	5-1/16	27-3/4	11-1/8	9-9/16	215T	493
250	21-1/8	58-1/4	4	1-3/16	11/16	1	2	11-9/16	5-1/16	30-15/16	12-3/8	10-9/16	215T	563
270	23	63-3/4	4	1-7/16	11/16	1	2	12-9/16	5-1/16	33-11/16	13-3/8	11-1/2	256T	653
300	25-15/16	71-1/4	4	1-7/16	11/16	1	2	13-9/16	5-1/16	36-15/16	14-5/16	13	256T	772

All dimensions in inches. Weight in lbs., less motor. For other discharge dimensions, please consult page 17, Compute-A-Fan[®], an authorized representative or the factory.
 *Based on open drip proof, single speed.

Centrifugal
Utility Vent Set Blower
Forward Curved Wheel
Direct Drive



Loren Cook Company certifies that the CPFD 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 CPFD is furnished standard with UL 705 listing (cUL 705) when furnished with factory supplied motor.

Description: Fan shall be a single width, single inlet, forward curved, direct driven centrifugal vent set.

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

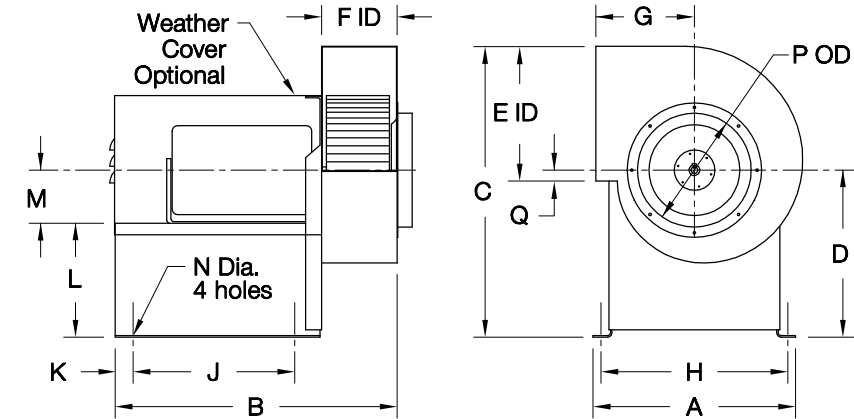
Construction: The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The fan housing shall have air tight lock seams and shall be field rotatable to any one of eight discharge positions. Motor mount shall be minimum 14 gauge steel. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM and static pressure. 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 centrifugal forward curved type. Wheel hub shall be securely attached to the motor shaft. Wheel shall utilize an aerodynamic 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 heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.

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



CPFD Dimensions

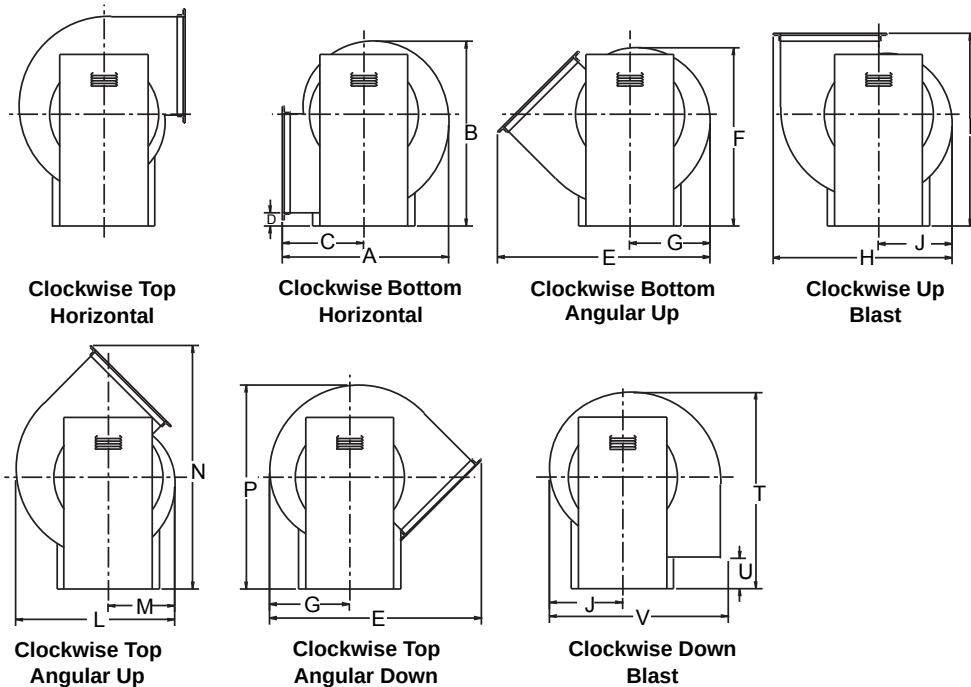
Size	A	B	C Min.	C Max.	D Min.	D Max.	E	F	G	H	J
6	13-1/2	18-1/2	15-1/4	15-3/4	7-5/8	8-1/8	7-7/8	4-5/8	5-3/4	12-1/2	10-3/4
7	13-1/2	20-1/4	18-1/8	18-5/8	10-1/8	10-5/8	8-3/8	5-3/8	6-1/8	12-1/2	12-1/4
9	14	21-3/4	20-1/2	20-1/2	11-1/8	11-1/8	9-7/8	5-7/8	7	12-3/4	13-3/4
10	15-1/2	22-1/4	23-15/16	24-15/16	13-3/8	14-3/8	11-3/8	6-3/8	8	14-1/4	13-3/4
12	17	22-3/4	26	27	13-3/8	14-3/8	13-3/8	5-7/8	9	15-3/4	14-1/4

Size	K	L	M Min.	M Max.	N	P	Q	Ship Wt.
6	1	4-5/8	2-7/8	3-5/8	7/16	7	1/2	17
7	1	7-1/8	2-7/8	3-5/8	7/16	7	5/8	22
9	1	7-5/8	3-3/8	4-5/8	9/16	9	3/4	32
10	1	9-7/8	3-3/8	4-5/8	9/16	9	1-1/16	44
12	1	9-7/8	3-3/8	4-5/8	9/16	12-1/2	1	61

All dimensions in inches. Dimensions C, D, and M vary with motor frame size. For other discharge dimensions, please consult, Compute-A-Fan® an authorized representative or the factory.

The direction of rotation is determined from the drive side of the fan. On single inlet fans, drive side is always considered as the side opposite the fan inlet.

The angle of the discharge is based on the horizontal axis of the fan and is designated in degrees (45° standard) above or below the standard reference axis.



Dimensions (Belt drive)

Size	A	B	C	D		E	F		G	H	J	K	
				Class I	Class II		Class I	Class II				Class I	Class II
60-100	22 1/4	26 1/8	12 3/4	7 1/16	-	25 9/16	25 1/2	-	8 13/16	20 3/4	8 1/8	30 3/4	-
120	24 13/16	27 3/4	13 3/8	5	9	29 5/16	27	31	10 5/8	24 9/16	9 3/4	31 3/8	35 3/8
135	26 11/16	29	13 7/8	3 5/16	7 5/16	31 11/16	27 1/8	31 1/8	11 15/16	27 3/8	11	31 13/16	35 7/8
150	29 9/16	31 1/4	15 5/16	2 1/2	5 7/16	35 11/16	30 5/16	33 1/4	13 1/4	30 1/4	12 3/16	34 3/8	37 5/16
165	32 1/16	33 7/8	16 3/8	2 5/8	6 3/16	38 7/8	32 13/16	36 3/8	14 5/8	33 1/8	13 3/8	36 13/16	40 3/8
180	34 3/4	36 11/16	17 5/8	2 5/8	4 9/16	42 3/16	35 5/8	37 9/16	15 7/8	35 15/16	14 5/8	39 11/16	41 5/8
195	36 5/16	39 5/8	17 13/16	2 1/2	3 1/16	44 3/8	38 5/16	38 7/8	17 1/4	38 13/16	15 13/16	41 9/16	42 1/16
210	39 15/16	42 7/16	20	2 1/2	2 1/2	48 13/16	41 1/8	41 1/8	18 1/2	41 5/8	17 1/8	45 3/8	45 3/8
225	42	45 5/16	20 5/8	2 5/8	2 5/8	51 3/4	43 7/8	43 7/8	19 7/8	44 1/2	18 5/16	47 5/8	47 5/8
245	45 1/16	49 1/2	21 3/4	3 3/16	3 3/16	55 13/16	48	48	21 5/8	48 3/4	19 7/8	51 3/8	51 3/8
270	49 1/16	54 5/16	23 3/8	3 3/16	3 3/16	61 3/16	52 5/8	52 5/8	23 7/8	53 9/16	22 1/16	55 3/4	55 3/4
300	54 3/8	60	25 7/8	3 3/16	3 3/16	68 7/8	58 1/8	58 1/8	26 1/2	59 1/4	24 3/8	62 1/2	61 1/2
330	59 13/16	65 11/16	28 7/16	3	3	84 5/8	62 5/8	63 5/8	29 1/8	65 5/16	26 7/8	67 5/16	67 5/16
365	66 1/8	72 7/16	31 7/16	3	3	82 5/8	70 1/8	70 1/8	32 1/4	71 5/8	29 5/8	74 11/16	74 3/16
402	72 15/16	79 1/2	34 11/16	3	-	91	77 1/16	-	35 1/2	78 11/16	32 13/16	81 7/16	-
445	80 9/16	87 1/2	38 5/16	3	-	100 5/8	84 3/4	-	39 5/16	86 15/16	36 1/8	89 11/16	-
490	88 3/4	96 1/16	42 3/16	3	-	110 3/4	93	-	43 5/16	95 15/16	39 3/4	98 7/16	-

Size	L	M	N		P		T		U		V	
			Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II	Class I	Class II
60-100	17 11/16	7 1/2	35 7/8	-	28 1/4	-	27 1/2	-	5 1/4	-	19 1/4	-
120	21 5/16	9	37 7/8	41 7/8	30 5/16	34 1/2	29 7/16	33 5/8	4 5/8	8 5/8	23	23
135	22 15/16	9 1/8	39 3/8	43 3/8	31 3/4	35 15/16	30 7/8	35 1/16	4 1/8	8 1/8	25 13/16	25 13/16
150	26 5/8	11 1/4	42 5/8	45 9/16	34 3/8	37 1/2	33 5/16	36 7/16	3 3/4	6 11/16	28 11/16	28 11/16
165	39 3/16	12 3/8	45 7/8	49 7/16	37 1/4	41	36 1/8	39 7/8	4 1/16	7 5/8	31 9/16	31 9/16
180	31 15/16	13 9/16	49 9/16	52 1/2	40 7/16	42 9/16	39 3/16	41 5/16	4 7/16	6 3/8	34 3/8	34 3/8
195	34 1/2	14 5/8	52 9/16	53 1/8	43 1/2	44 1/4	42 3/16	42 15/16	5 7/8	6 7/16	37 1/4	37 1/4
210	37 3/16	15 3/4	56 15/16	56 15/16	46 13/16	47	45 5/16	45 1/2	5 3/8	5 3/8	40 1/16	40 1/16
225	39 7/8	16 7/8	60 3/16	60 3/16	49 15/16	50 1/8	48 3/8	48 9/16	6 3/8	6 3/8	42 15/16	42 15/16
245	43 3/8	18 3/8	65 1/2	65 1/2	53 5/8	54 11/16	52 15/16	53 1/8	7 7/8	7 7/8	46 11/16	46 11/16
270	47 7/8	20 1/4	71 7/16	71 7/16	60	60	58 1/16	58 1/4	8 5/8	8 5/8	51 1/2	51 1/2
300	52 1/8	22 1/2	78 3/4	78 3/4	66 1/4	66 5/16	64 1/8	63 3/8	9 3/4	9 3/4	57 1/4	57 1/4
330	58 1/2	24 3/4	85 7/16	85 7/16	72 5/8	73	70 1/4	70 1/2	10 7/16	10 7/16	63 5/16	63 5/16
365	64 9/16	27 3/4	94 13/16	94 13/16	80	80 1/4	77 7/16	77 11/16	11 5/16	11 5/16	69 11/16	69 11/16
402	71 3/8	30 5/16	104 1/16	-	87 13/16	-	82	-	12 1/16	-	79 3/4	-
445	78 3/8	33 5/8	114 9/16	-	96 3/4	-	93 5/8	-	13 1/16	-	84 7/8	-
490	86 3/4	36 3/4	125 5/8	-	106 1/4	-	102 13/16	-	14 1/16	-	93 3/8	-

Construction Information

Wheel Weights and WK²

Size	CPS Steel Flat Blade SWSI				
	Class I		Class II		
	Wheel Weight	WK ²	Wheel Weight	WK ²	
60	12.9	1.03	-	-	
70	12.9	1.03			
80	12.9	1.03			
100	12.9	1.03			
120	17.0	1.89	20.1	2.48	
135	19.7	2.91	23.7	3.86	
150	22.7	4.32	29.6	6.24	
165	28.7	6.90	34.5	9.04	
180	47.1	10.9	59.1	16.2	
195	51.1	14.4	65.7	21.7	
210	59.7	20.9	73.0	28.6	
225	65.3	26.9	80.6	37.1	
245	73.7	37.4	101	57.1	
270	96.3	61.9	118	83.1	
300	143	98.0	188	151	
330	168	148	221	225	
365	193	217	258	335	
402	266	390	-	-	
445	396	613			
490	451	882			

Size	CPS-A Steel Airfoil SWSI				
	Class I		Class II		
	Wheel Weight	WK ²	Wheel Wt.	WK ²	
120	17.6	2.00	17.6	2.01	
135	20.4	3.09	20.4	3.10	
150	23.6	4.58	25.6	5.07	
165	29.8	7.28	29.6	7.30	
180	48.4	11.47	48.0	11.5	
195	52.6	15.15	52.6	15.2	
210	57.9	19.83	57.9	19.9	
225	67.1	28.1	67.1	28.2	
245	75.8	39.1	85	44.5	
270	98.8	64.3	98	64.5	
300	146	101.6	147	102	
330	172	152.8	171	154	
365	197	225.1	218	264	
402	253	362	-	-	
445	380	570	-	-	
490	430	817			

Size	CPA-A Aluminum Airfoil SWSI				
	Class I		Class II		
	Wheel Wt.	WK ²	Wheel Wt.	WK ²	
120	6.7	0.82	6.7	0.82	
135	7.9	1.27	7.9	1.28	
150	9.2	1.89	9.1	1.90	
165	10.6	2.73	10.5	2.73	
180	17.2	4.27	17.0	4.29	
195	18.6	5.65	19.6	6.03	
210	20.5	7.40	21.6	7.91	
225	25.5	11.4	25.5	11.4	
245	29.8	16.5	29.6	16.6	
270	34.5	23.9	34.3	24.0	
300	53.2	38.2	55.7	40.2	
330	60.1	54.6	62.6	57.4	
365	71.8	83.9	80.5	99.8	
402	83.3	122	-	-	
445	129	195			
490	145	278			

Size	CPA Aluminum Flat Blade SWSI				
	Class I		Class II		
	Wheel Wt.	WK ²	Wheel Wt.	WK ²	
60	4.64	0.34	-	-	
70	4.64	0.34			
80	4.64	0.34			
100	4.64	0.34			
120	5.66	0.62	6.24	0.73	
135	6.54	0.95	7.29	1.13	
150	7.51	1.41	8.36	1.68	
165	8.58	2.02	9.62	2.42	
180	14.8	3.28	17.9	4.66	
195	16.6	4.62	20.6	6.55	
210	18.1	6.04	22.8	8.61	
225	20.9	8.37	25.1	11.1	
245	24.4	12.3	29.1	16.2	
270	28.0	17.7	33.8	23.5	
300	47.3	31.3	61.3	46.9	
330	53.0	44.4	69.5	67.2	
365	63.0	68.6	80.2	99.4	
402	82.0	120	-	-	
445	128	192			
490	143	273			

Size	CPV Aluminum Flat blade SWSI	
	Wheel Wt.	WK ²
60	2.68	0.21
70	2.68	0.21
80	2.68	0.21
100	2.68	0.21
120	3.44	0.42
135	4.07	0.66
150	4.77	1.00
165	5.53	1.44
180	6.32	2.02
195	7.22	2.76
210	9.35	4.22
225	12.5	5.66
245	14.1	7.83
270	18.0	12.4
300	27.9	21.5
330	32.1	31.0
365	37.4	45.5
402	55.3	83.2
445	68.3	130
490	93.8	216

Size	CPF Steel Forward Curved SWSI	
	Wheel Wt.	WK ²
100	5.0	0.5
120	5.1	1.0
150	11.6	3.0
180	22.3	8.0
200	43.3	20
250	53.3	36
270	61.3	50
300	76.7	81

All wheel weights and WK² values are given in lbs. and lb-ft².

Motor Selection

For proper motor selection you must give consideration to starting torque requirements along with the operating BHP. The above chart lists the WK² factor for different wheel sizes. In some cases it may be necessary to provide a larger horsepower motor in order to bring the fan to speed, even though it may not be indicated by operating BHP.

The following formula can be applied to determine the required motor starting torque.

$$WK_M^2 = WK_F^2 (FRPM/MRPM)^2 (1.1)$$

Where

WK_M² - Is the moment of inertia required at the motor shaft, lb-ft²

WK_F² - Is the moment of inertia of the fan, lb-ft²

FRPM - Is the fan RPM

MRPM - Is the motor RPM

Motor starting torque can vary greatly among motor manufacturers. The available WK_M² at the motor should be obtained from the motor manufacturer.

Material Gauges and Shaft Diameters

Model	Steel		Aluminum		Shaft Diameter						
	CPS, CPS-A, CPFB & CPV		CPA, CPA-A		CPS, CPS-A, CPA, CPA-A		CPFB	CPV			
	Scroll	Side Panel	Scroll	Side Panel	Class I	Class II					
60	14 ga.	12 ga.	.100	.100	1"	-	3/4"	3/4"			
70						1-7/16"	1"				
80											
100											
120					1-3/16"	1-11/16"	1-3/16"	1"			
135											
150					1-7/16"						
165											
180					1-11/16"						
195											
210											
225											
245											
270											
300	12 ga.	10 ga.	.125	.125	1-15/16"	2-3/16"	1-7/16"	1-3/16"			
330					2-3/16"	2-7/16"					
365						-					
402											
445					2-7/16"		-	1-7/16"			
490											

Classification for Spark Resistant Construction

Type	Construction
A	All parts of the AMD in contact with the air or gas being handled shall be made of non-ferrous material
B	The AMD shall have a non-ferrous wheel and a non-ferrous ring about the opening through which the shaft passes.
C	The AMD shall be so constructed that a shift of the wheel or shaft will not permit two ferrous parts of the AMD to rub or strike.

Note: Bearings shall not be placed in the air or gas stream. The user shall electrically ground all AMD parts. Nonferrous material is defined as having less than five percent iron or a material which is considered to be spark resistant. AMD - Air Moving Device.

High Temperature Construction Requirements

Temperature	Construction
-20°F to 230°F	Standard Construction
231°F to 300°F	High Temperature Paint RPM limited to 96% of maximum
301°F to 500°F (CPS/CPS-A only)	Requires Steel Wheel Construction High Temperature Paint Shaft Cooler Motor Heat Shield High Temperature Weather Cover or Belt Guard (if weather cover or belt guard required) RPM limited to 91% of maximum at 500°F

Coatings

LORENIZED™ Fan Finish Specification

All steel fan components shall be finished 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. Standard Color: Gray. Final Coat Thickness: Minimum 2 mils.

Polyester Powder Testing Information

Impact Resistance	Test - ASTM D2794	Value - 100 inch-pounds
Pencil Hardness	Test - ASTM D3363	Value - 2H (Mar or Gouge)
Crosshatch Adhesion	Test - ASTM D3359 Method B	Value - 100%
Humidity Resistance	Test - ASTM D2247	Value - 1000+ Hours
Salt Spray	Test - ASTM B117	Value - 1000+ Hours
Continuous Service Temperature	Test - N/A	Value - 230°F (110°C)

Refer to the
Coatings Brochure
for additional information

Other 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 required to prevent deterioration 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.

Cook Easy Clean Powder is an electrostatically applied, baked modified epoxy silicone powder producing a high temperature “non-stick” coating. Final coating thickness is 1.3 - 1.7 mils.

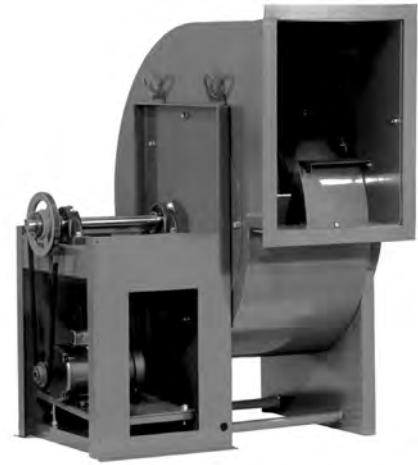
Air Dry Phenolic (Heresite VR-504) is a conventional spray applied phenolic resin coating. Final coating thickness is 4 – 6 mils. For outdoor applications an optional UV resistant topcoat (Heresite UC-5500) is required to prevent deterioration of the coating.

UL Listed Power Ventilator for Smoke Control Systems

The UL Listing “Power Ventilator for Smoke Control Systems” is a test procedure and category which was initiated by Loren Cook Company and developed in a joint effort with UL in 1990. Several different sources were used in the definition of this test procedure. These sources include UL Standards 705, 762, 793, Southern Building Code Congress International (SBCCI) Standard Fire Prevention Code/ 1988, and Industrial Risk Insurers (IRI) Document E2. The requirements for the UL listing “Power Ventilator for Smoke Control Systems” are summarized as follows.

Roof Mounted Products

- The unit must withstand a specified elevated airstream temperature for a specified duration.
- The unit must be listed under UL 705.
- Fans with integral butterfly dampers shall meet the following requirements:
 - Fans shall be fitted with spring loaded damper actuator arms which will open the dampers automatically when the airstream temperature reaches 165°F.
 - The dampers must activate with or without electrical power connected to the fan.
 - The damper actuators must meet the requirements in UL 793 for Snow and Dust Load Testing of Butterfly Dampers (10 pounds per square foot).



Model	Sizes	Maximum Pressure	Duration at Specified Airstream Temp.	
			500°F	1000°F
CPS *	60 thru 490	5.0"	4 HOURS	2 HOURS
CPS-A *				

* Requires optional accessories. Consult factory for details.

UL 762 Listed for Restaurant Exhaust Appliances

COOK products with a UL 762 listing are designed to eject contaminated or grease-laden air. These products are UL listed to operate continuously at elevated temperatures and continue operation during grease flare-up. All of these units are intended for installation in accordance with the National Fire Protection Association (NFPA) Standard 96: Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations.

UL Listed to Operate Continuously to 500°F: CPS / CPS-A

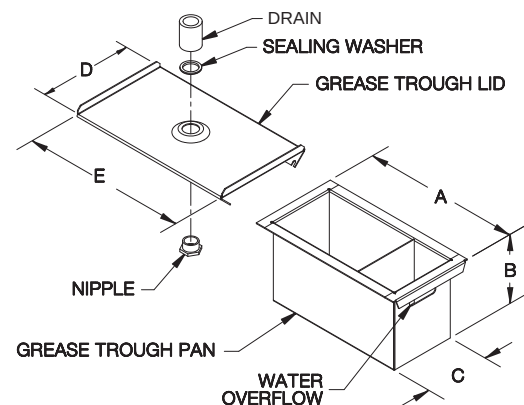
These COOK products must be ordered with drain and access door to comply with UL requirements. Weather covers are required for outdoor applications. When airstream temperatures are expected to exceed 180°F, high temperature accessories may be required.

Two Grease Collection Options

The **Grease Terminator 2** is a grease-capture and containment system. It uses the same material that oil companies use to clean catastrophic oil spills on the ocean. It lasts about 30 to 45 days and is then replaced. The **grease trough** is constructed of continuously welded .064 aluminum and includes a pan, lid and mounting hardware. Both the curb and non-curb mounted versions feature a baffled design for extended capacity. The lid and pan are removable for easy cleaning.



Grease Trough

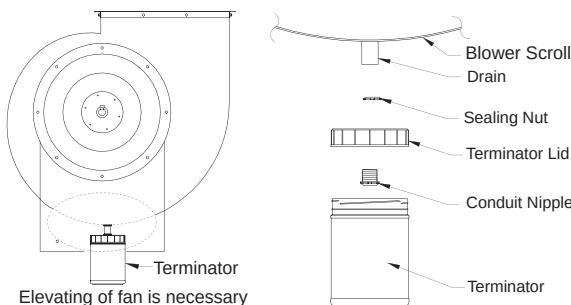


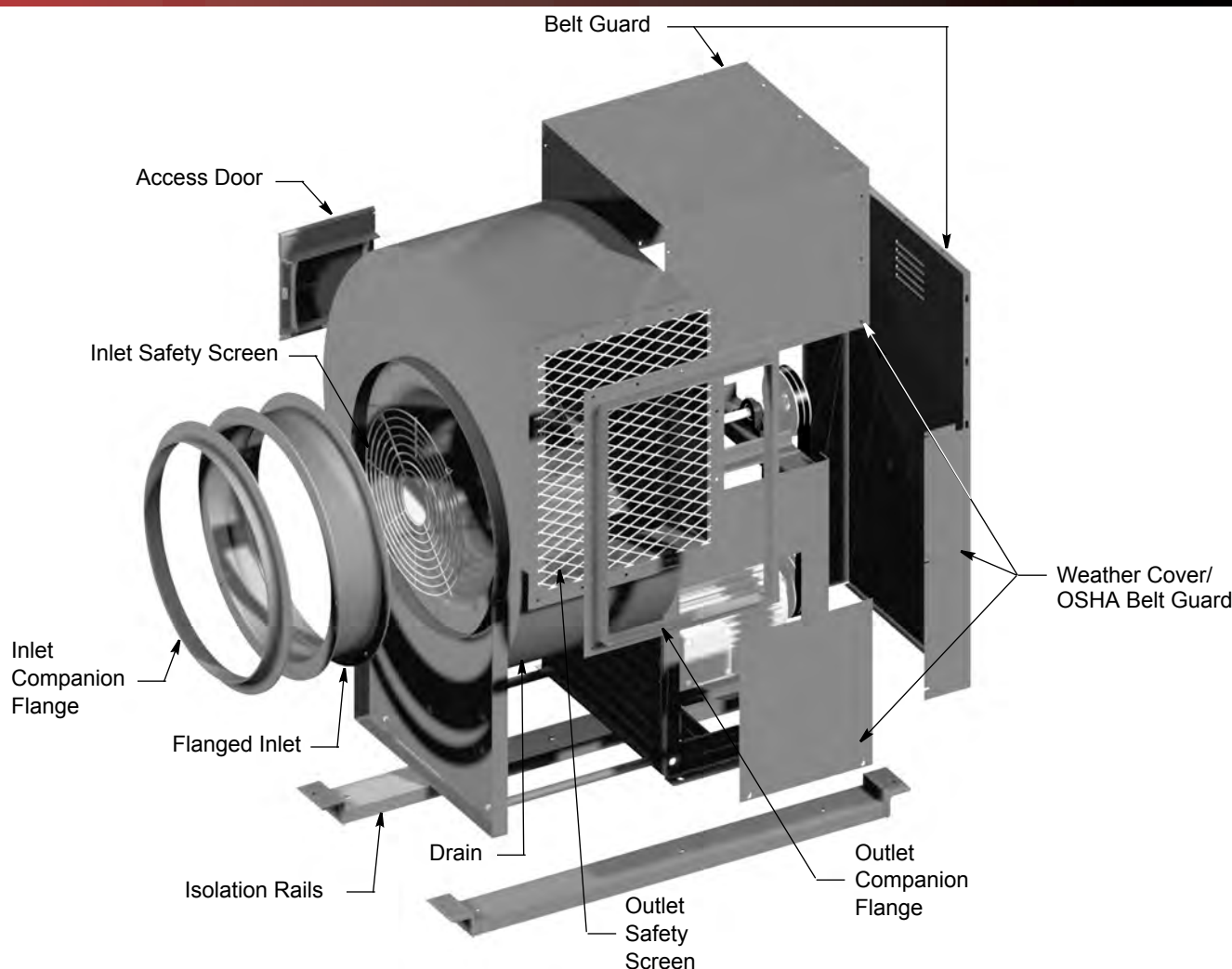
Grease Trough Dimensions

A	B	C	D	E
16-13/16	3-1/8	4-13/16	7-3/16	17-7/16

Grease Terminator 2

CP Installation





Access Door

An access door is available in a bolted or hinged configuration. The door provides access for cleaning and inspection and is constructed from the same material as the fan housing. A gasket is also utilized to minimize leakage.

Inlet/Outlet Safety Screens

Inlet/Outlet safety screens are available to protect personnel and prevent debris from entering the fan in non-ducted applications. Safety screens are factory mounted. Catalog performance is based on fan without safety screen(s).

Flanged Inlet

A flanged inlet connection is available for flange-type duct attachments. This type of connection allows the fan to be removed without disturbing the surrounding ductwork.

Inlet/Outlet Companion Flange

Inlet/Outlet companion flanges are available for use in conjunction with the optional flanged inlet and flanged outlet. The companion flanges are attached to the adjacent ductwork to provide an exact mate to the flanged connection of the fan.

Belt Guard

Belt guards are available which cover the shaft and drive components. The guard is constructed of minimum 16 gauge Lorenized™ steel and is factory installed. OSHA belt guards are also available to completely enclose the shaft and drive components.

Weather Cover/OSHA Belt Guard

Weather covers are available to completely enclose the motor, shaft and drive components. The weather cover is constructed of minimum 16 gauge Lorenized™ steel. A weather cover also functions as an OSHA belt guard.

Shaft Cooler

The shaft cooler is an aluminum casting with radial vanes which is mounted on the shaft between the inboard bearing and the fan mounting panel. The shaft cooler is designed to dissipate heat which is conducted along the shaft and prevents excessive bearing temperatures. A shaft cooler is required for air temperature above 300°F.

Drain

A drain coupling can be located in the bottom of the scroll housing. The coupling is continuously welded to the scroll and is threaded for a 3/4 inch pipe connection.

Additional Accessories

- Shaft seal
- Rub ring
- Motor heat shield
- Isolators
- Isolation base
- Weather cover door
- Isolation Rails
- Punched inlet / outlet flange
- Inlet / outlet flange, also available in UL 762 specifications.
- High Temperature Grease
- 304 Stainless Steel (CPS/CPS-A)
- UL 762 & UL Power Ventilator for Smoke Control - see page 20
- Disconnects switches
- Piezometric ring
- Bearing upgrade

ACCESSORIES

Shutters

Typically attached to discharge flange however, may be shipped loose.

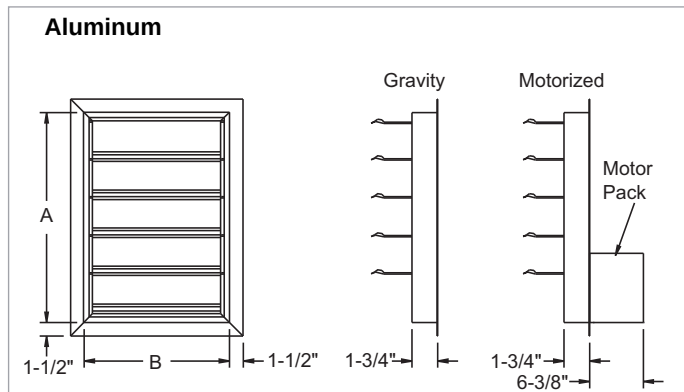
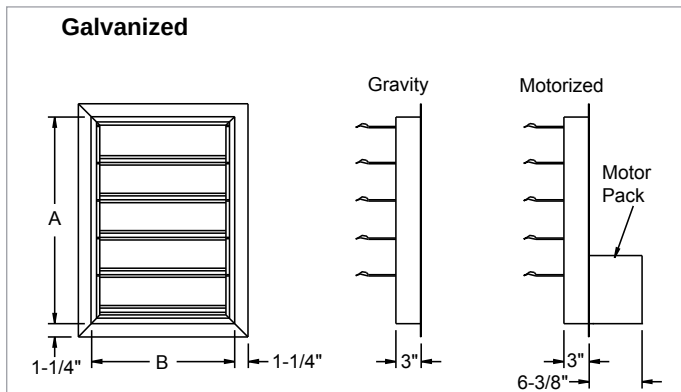
Galvanized: The 20 gauge frame and 28 gauge blades are constructed of galvanized steel. The blade pivot pins are stainless steel and the blades have mechanically fastened vinyl edge seals. In addition, the blades are linked on the inside by a steel bar serving as a counter balance to lower the minimum required CFM to operate. Maximum face velocity is 3500 FPM. Size 490 requires two motors. Maximum airstream temperature is 130°F for motorized dampers and 200°F for gravity dampers.

Aluminum: The aluminum shutter blades are constructed of .050 inch and .020 inch aluminum blades mounted in a .050 inch thick aluminum frame. Aluminum blade pivots are mounted in nylon bushings and felt edge seals are installed on each blade. Blades are interlinked on the inside with an aluminum linkage bar. Standard duty shutters are required for discharge velocities of 0 FPM to 1,999 FPM. Heavy duty shutters are required for discharge velocities of 2,000 FPM to 3,000 FPM. Sizes 445 and 490 require two motors. Maximum airstream temperature is 130°F for motorized dampers and 200°F for gravity dampers.

CP Galvanized Shutter Dimensions

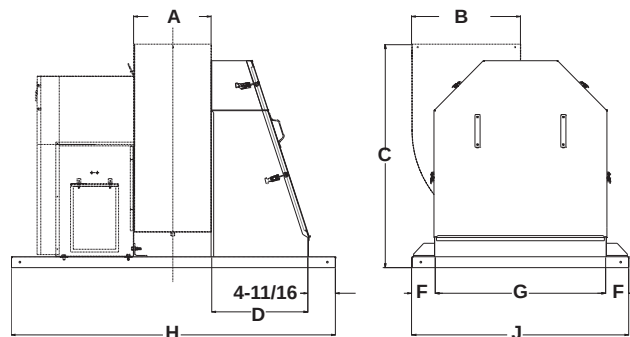
Unit Size	Model No.						A	B
	Galvanized		Aluminum					
			Gravity		Motorized			
	Gravity	Motorized	Std. Duty	Hvy. Duty	Std. Duty	Hvy Duty		
60-100	ASDG-100	MDSG-100	ADSS-100	ADSH-100	MDSS-100	MDSH-100	10-3/4	7-3/8
120	ADSG-120	MDSG-120	ADSS-120	ADSH-120	MDSS-120	MDSH-120	12-15/16	9
135	ADSG-135	MDSG-135	ADSS-135	ADSH-135	MDSS-135	MDSH-135	14-9/16	10-1/8
150	ADSG-150	MDSG-150	ADSS-150	ADSH-150	MDSS-150	MDSH-150	16-1/4	11-1/4
165	ADSG-165	MDSG-165	ADSS-165	ADSH-165	MDSS-165	MDSH-165	17-3/16	12-3/8
180	ADSG-180	MDSG-180	ADSS-180	ADSH-180	MDSS-180	MDSH-180	19-7/16	13-1/2
195	ADSG-195	MDSG-195	ADSS-195	ADSH-195	MDSS-195	MDSH-195	21-1/16	14-11/16
210	ADSG-210	MDSG-210	ADSS-210	ADSH-210	MDSS-210	MDSH-210	22-3/4	15-13/16
225	ADSG-225	MDSG-225	ADSS-225	ADSH-225	MDSS-225	MDSH-225	24-3/8	16-15/16
245	ADSG-245	MDSG-245	ADSS-245	ADSH-245	MDSS-245	MDSH-245	26-9/16	18-1/2
270	ADSG-270	MDSG-270	ADSS-270	ADSH-270	MDSS-270	MDSH-270	29-9/16	20-5/8
300	ADSG-300	MDSG-300	ADSS-300	ADSH-300	MDSS-300	MDSH-300	32-13/16	22-15/16
330	ADSG-330	MDSG-330	ADSS-330	ADSH-330	MDSS-330	MDSH-330	36-1/8	25-1/4
365	ADSG-365	MDSG-365	ADSS-365	ADSH-365	MDSS-365	MDSH-365	39-15/16	27-7/8
402	ADSG-402	MDSG-402	ADSS-402	ADSH-402	MDSS-402	MDSH-402	44-1/16	30-3/4
445	ADSG-445	MDSG-445	ADSS-445	ADSH-445	MDSS-445	MDSH-445	48-11/16	34
490	ADSG-490	MDSG-490	ADSS-490	ADSH-490	MDSS-490	MDSH-490	53-5/8	37-7/16

All dimensions in inches.



Integral Curb Cap & Plenum Assembly

All CP models are available with an integral curb cap and inlet box assembly. This accessory is designed to provide additional access and minimize performance losses in roof mounted installations. The plenum box includes a removable, gasketed access door with adjustable quick-release latches to allow access to wheel and ductwork for cleaning. The plenum box has been designed to have less than 1% impact on performance. This accessory is available in sizes 60-245, Class I.



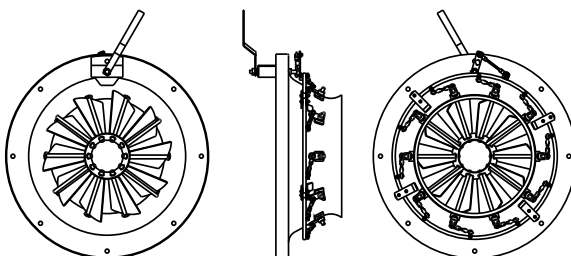
Size	A INSIDE	B INSIDE	C	D INSIDE OF PLENUM BOX	F	G INSIDE OF PLENUM BOX	H OUTSIDE	J OUTSIDE	Wt
60-100	7-9/16	10-15/16	32-3/4	12-9/16	4-7/16	22-7/16	47-1/2	31-1/2	85
120	9-3/16	13-1/8	33-3/8	12-9/16	4-7/16	22-7/16	48-1/2	31-1/2	87
135	10-5/16	14-3/4	33-7/8	13-13/16	4-1/4	24-13/16	53-1/2	33-1/2	101
150	11-7/16	16-7/16	36-3/8	15-3/16	4-9/16	27-3/16	55-1/2	36-1/2	113
165	12-5/8	18-1/16	38-13/16	16-7/16	4-7/16	29-7/16	58-1/2	38-1/2	125
180	13-3/4	19-11/16	41-11/16	17-13/16	4-1/4	31-13/16	60-1/2	40-1/2	139
195	14-15/16	21-5/16	43-1/2	19-3/16	4-9/16	34-3/16	66-1/2	43-1/2	158
210	16-1/16	23	47-3/8	20-13/16	4-15/16	37-7/16	69-1/2	47-1/2	171
225	17-3/16	24-5/8	49-5/8	22-5/16	4-11/16	39-15/16	72-1/2	49-1/2	183
245	18-3/4	26-13/16	53-3/8	23-13/16	4-1/2	42-5/16	75-1/2	51-1/2	219

All dimensions in inches.

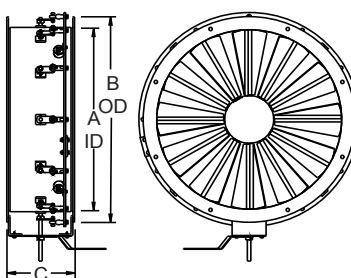
Inlet Vane Damper

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 is available on sizes 245 to 490. External type is available on sizes 120 to 490. Please consult factory for details. Cataloged performance is based on fans without inlet vane dampers. Maximum airstream temperature is 200°F.

Nested



External



External IVD

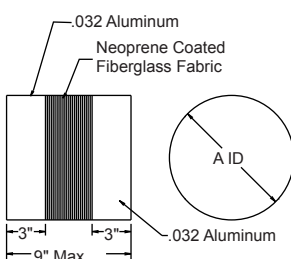
Size	A	B	C
120	12-7/8	15-7/8	10
135	14-3/8	17-3/8	10
150	15-7/8	18-7/8	10
165	17-3/8	20-3/8	10
180	18-7/8	21-7/8	10
195	20	23	10
210	21-3/4	24-3/4	10
225	23-1/4	26-1/4	10
245	25-1/4	28-1/4	10
270	27-1/4	31-1/4	10
300	30-1/4	34-1/4	10
330	33-1/4	37-1/4	10
365	36-3/4	40-3/4	10
402	40-1/2	44-1/2	11
445	44-3/4	48-3/4	11
490	50-1/4	54-1/4	11

All dimensions in inches.

Inlet/Outlet Flexible Duct Connector

Flexible Duct Connectors provide a flexible connection between the fan and the attached ductwork. This reduces the transmission of noise and vibration to the ductwork as well as allowing for slight misalignment and easy removal of the fan without disturbing the rigid ductwork. Flex Duct Connectors are constructed of reinforced neoprene fabric and aluminum bands. Outlet Flexible Duct Connector includes Outlet Companion Flange; typically attached to discharge flange. Not to be used for UL762 or Smoke Control units. Maximum airstream temperature is 250°F.

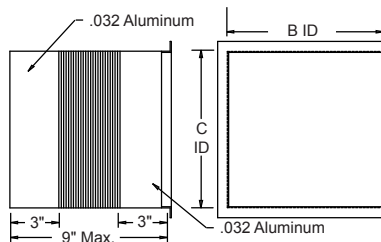
Inlet (Class I only)



Size	A
60-100	14-1/4
120	16-1/4
135	17-3/4
150	19-1/4
165	21-5/16
180	22-13/16
195	24-5/16
210	26-1/16
225	27-9/16
245	29-9/16
270	32-1/16
300	35-1/16
330	38-1/16
365	41-9/16
402	45-5/16
445	49-9/16
490	55-1/8

All dimensions in inches.

Outlet (Class I only)



Size	B	C
60-100	11-1/16	7-3/4
120	13-5/16	9-3/8
135	14-15/16	10-1/2
150	16-5/8	11-5/8
165	18-1/4	12-13/16
180	19-7/8	13-15/16
195	21-1/2	15-3/16
210	23-3/16	16-5/16
225	24-13/16	17-7/16
245	27	19
270	29-3/4	20-7/8
300	33	23-3/16
330	36-5/16	25-7/16
365	40-3/16	28-1/16
402	44-5/16	30-15/16
445	48-15/16	34-3/16
490	53-7/8	37-5/8

All dimensions in inches.

CPV, CPS & CPA Size 60 Performance Data

Wheel Diameter: 10"

Tip Speed (FPM) = 2.62 x RPM

Inlet Area: .61 Sq. Ft.

Outlet Area: .57 Sq. Ft.

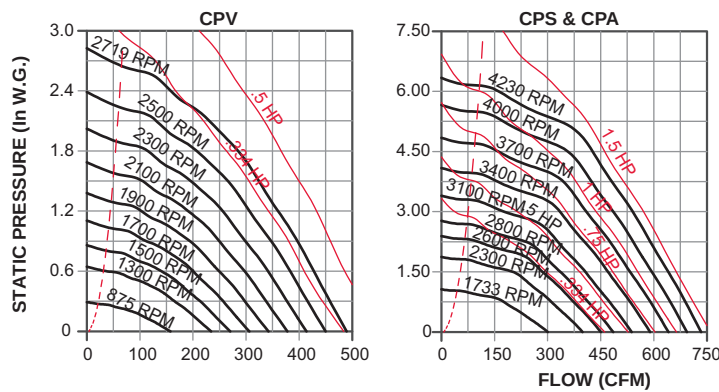
Outlet Velocity (FPM) = CFM/.57

CPV Max. RPM: 2719

CPS & CPA Max. RPM: 4230

Max. BHP = the following factor x (RPM/1000)³

CPV	CPS & CPA
0.021	0.018



	CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CPV (Flat blade)	50	87	875	.01	1196	.03																
	70	121	915	.01	1235	.03	1476	.05	1691	.07	1886	.10										
	90	156	966	.02	1278	.04	1524	.06	1724	.08	1905	.11	2075	.14	2235	.17	2386	.20				
	110	191	1025	.02	1319	.04	1564	.06	1774	.09	1951	.12	2111	.15	2260	.18	2404	.21	2542	.25	2674	.29
	130	226	1100	.02	1374	.05	1604	.07	1811	.10	1999	.13	2162	.16	2308	.20	2444	.23	2574	.27	2699	.30
	150	261	1182	.03	1432	.05	1657	.08	1852	.11	2033	.14	2203	.18	2357	.21	2496	.25	2624	.29		
	170	295	1263	.03	1502	.06	1713	.09	1904	.12	2076	.15	2238	.19	2393	.23	2538	.27	2673	.31		
	190	330	1347	.04	1581	.07	1774	.10	1960	.13	2129	.17	2284	.21	2430	.24	2572	.29	2709	.33		
	210	365	1437	.05	1663	.08	1846	.11	2018	.15	2185	.19	2337	.22	2479	.26	2614	.31				
	230	400	1530	.07	1744	.10	1926	.13	2085	.16	2242	.20	2393	.24	2533	.29	2665	.33				
	250	435	1627	.08	1825	.11	2008	.15	2161	.18	2306	.22	2450	.26	2589	.31						
	270	470	1725	.09	1910	.13	2089	.17	2241	.20	2379	.24	2513	.29	2646	.33						
	290	504	1825	.11	1999	.15	2170	.18	2324	.23	2457	.27	2583	.31	2708	.36						
	310	539	1926	.13	2092	.17	2252	.21	2405	.25	2540	.30	2662	.34								
	330	574	2026	.15	2187	.19	2337	.23	2486	.28	2622	.31										
	350	609	2130	.18	2283	.22	2425	.26	2567	.31	2702	.36										
	370	644	2232	.20	2382	.25	2517	.29	2650	.34												
	390	678	2336	.23	2480	.28	2611	.33														
	410	713	2441	.26	2580	.32	2706	.36														
CPS & CPA (Flat blade)	70	121	1733	.08																		
	100	174	1785	.09	1976	.12	2148	.15	2306	.18	2453	.22										
	130	226	1825	.10	2022	.13	2198	.17	2358	.20	2506	.24	2775	.32	3017	.41	3241	.50				
	160	278	1867	.11	2058	.15	2236	.18	2400	.22	2551	.26	2825	.35	3070	.44	3295	.54	3502	.65	3697	.75
	190	330	1950	.13	2111	.17	2276	.20	2437	.24	2588	.29	2867	.37	3117	.47	3344	.58	3554	.69	3751	.81
	220	383	2069	.16	2208	.19	2346	.23	2487	.27	2629	.31	2903	.41	3155	.51	3386	.61	3600	.73	3799	.85
	250	435	2190	.19	2330	.23	2455	.27	2574	.30	2696	.35	2946	.44	3192	.55	3423	.66	3638	.77	3840	.90
	280	487	2308	.22	2450	.27	2577	.31	2692	.35	2800	.39	3016	.49	3239	.59	3461	.71	3674	.83	3877	.95
	310	539	2433	.26	2568	.31	2697	.36	2815	.40	2922	.45	3119	.54	3314	.65	3514	.76	3716	.88	3914	1.02
	340	591	2567	.31	2692	.35	2815	.40	2933	.46	3043	.51	3239	.61	3418	.72	3595	.83	3777	.95	3961	1.08
	370	644	2708	.36	2824	.41	2939	.46	3051	.51	3161	.57	3362	.69	3538	.80	3703	.91	3865	1.03	4030	1.16
	400	696	2852	.42	2963	.47	3070	.52	3176	.58	3280	.64	3481	.76	3661	.89	3823	1.01	3976	1.13	4125	1.25
	430	748	2996	.49	3106	.54	3208	.60	3306	.65	3405	.71	3599	.84	3781	.98	3946	1.11	4097	1.24		
	460	800	3141	.56	3249	.62	3349	.68	3444	.74	3536	.80	3720	.93	3898	1.07	4066	1.22	4220	1.36		
	490	853	3288	.65	3394	.71	3493	.77	3585	.83	3674	.89	3846	1.03	4018	1.17	4184	1.33				
	520	905	3437	.74	3540	.81	3637	.87	3728	.93	3815	1.00	3980	1.14	4142	1.29						
	550	957	3588	.85	3687	.91	3783	.98	3872	1.05	3957	1.12	4117	1.26								
	580	1009	3741	.96	3836	1.03	3929	1.10	4017	1.17	4101	1.25										
	610	1061	3895	1.09	3987	1.16	4076	1.24	4163	1.31												
	640	1114	4053	1.22	4139	1.30	4225	1.38														

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

Performance Data CPV, CPS & CPA Size 70

Wheel Diameter: 10"

Tip Speed (FPM) = 2.62 x RPM

Inlet Area: .61 Sq. Ft.

Outlet Area: .57 Sq. Ft.

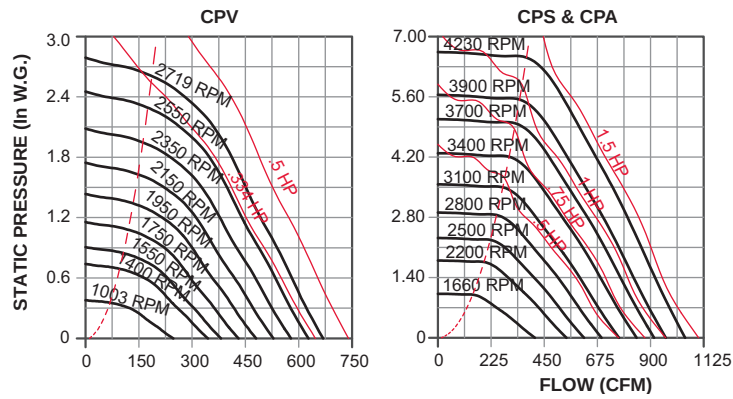
Outlet Velocity (FPM) = CFM/.57

CPV Max. RPM: 2719

CPS & CPA Max. RPM: 4230

Max. BHP = the following factor x (RPM/1000)³

CPV	CPS & CPA
0.022	0.019



	CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CPV (Flat blade)	150	261	1003	.019	1275	.04																
	175	304	1080	.024	1323	.05	1548	.07														
	200	348	1161	.030	1385	.05	1591	.08	1784	.11												
	225	391	1241	.037	1457	.06	1645	.09	1826	.12	1997	.15										
	250	435	1321	.044	1535	.07	1710	.10	1877	.13	2039	.16	2193	.20	2337	.24						
	275	478	1402	.052	1616	.08	1783	.11	1938	.14	2089	.18	2236	.22	2377	.26	2511	.30				
	300	522	1486	.062	1697	.09	1860	.12	2006	.16	2147	.19	2285	.23	2420	.27	2551	.32	2676	.36		
	325	565	1574	.074	1777	.11	1941	.14	2081	.17	2214	.21	2344	.25	2470	.29	2595	.34	2717	.38		
	350	609	1664	.087	1856	.12	2022	.16	2159	.19	2286	.23	2409	.27	2529	.31	2646	.36				
	375	652	1756	.102	1937	.14	2103	.18	2240	.22	2363	.25	2479	.29	2593	.34	2705	.38				
	400	696	1848	.118	2020	.16	2182	.20	2322	.24	2442	.28	2554	.32	2664	.36						
	425	739	1941	.137	2104	.18	2262	.22	2403	.27	2523	.31	2633	.35								
	450	783	2035	.158	2192	.20	2342	.25	2482	.29	2605	.34	2713	.39								
	475	826	2129	.180	2281	.22	2424	.27	2562	.32	2686	.37										
	500	870	2224	.205	2372	.25	2508	.30	2641	.35												
	525	913	2319	.232	2463	.28	2593	.30														
	550	957	2414	.262	2555	.31	2680	.40														
CPS & CPA (Flat blade)	150	261	1660	.07																		
	200	348	1735	.10	1895	.12	2048	.14	2197	.17												
	250	435	1857	.12	2001	.15	2136	.18	2266	.22	2392	.24	2635	.30								
	300	522	1991	.14	2131	.18	2259	.21	2378	.25	2492	.29	2710	.37	2920	.44	3122	.50	3319	.57		
	350	609	2130	.18	2266	.21	2391	.25	2508	.29	2617	.33	2821	.42	3013	.52	3198	.60	3377	.68	3552	.75
	400	696	2276	.21	2406	.26	2528	.30	2643	.34	2750	.38	2949	.47	3132	.57	3305	.68	3470	.79	3632	.89
	450	783	2432	.26	2553	.30	2670	.35	2781	.39	2887	.44	3082	.54	3262	.64	3429	.75	3587	.86	3739	.99
	500	870	2596	.31	2709	.36	2818	.40	2924	.46	3027	.51	3219	.61	3396	.72	3560	.82	3714	.94	3862	1.07
	550	957	2766	.38	2872	.42	2975	.47	3074	.52	3172	.58	3358	.69	3533	.81	3695	.92	3847	1.04	3992	1.16
	600	1044	2939	.45	3041	.50	3138	.55	3232	.60	3324	.66	3502	.78	3672	.91	3832	1.03	3983	1.16	4125	1.28
	650	1131	3117	.55	3214	.59	3306	.64	3396	.70	3483	.75	3651	.88	3815	1.01	3972	1.15	4120	1.28		
	700	1218	3296	.65	3390	.70	3478	.75	3564	.80	3647	.86	3808	.99	3964	1.13	4115	1.27				
	750	1305	3478	.77	3569	.82	3654	.87	3735	.93	3815	.98	3970	1.11	4118	1.25						
	800	1392	3662	.90	3749	.96	3831	1.01	3910	1.07	3987	1.13	4136	1.26								
	850	1479	3847	1.05	3931	1.11	4010	1.17	4088	1.23	4162	1.29										
	900	1566	4031	1.20	4115	1.28	4193	1.34														

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

CPV, CPS & CPA Size 80 Performance Data

Wheel Diameter: 10"

Tip Speed (FPM) = 2.62 x RPM

Inlet Area: .61 Sq. Ft.

Outlet Area: .57 Sq. Ft.

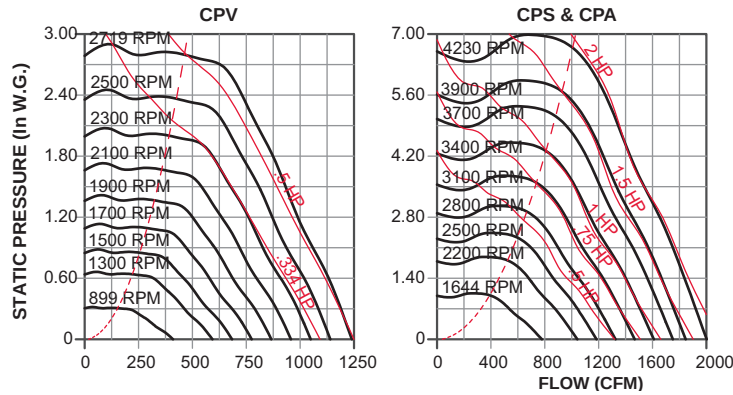
Outlet Velocity (FPM) = CFM/.57

CPV Max. RPM: 2719

CPS & CPA Max. RPM: 4230

Max. BHP = the following factor x (RPM/1000)³

CPV	CPS & CPA
0.031	0.027



Do not select to left of dotted curve.

CPV (Flat blade)	CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	250	435	899	.02	1163	.04	1411	.07														
	300	522	973	.03	1196	.05	1422	.08	1632	.11												
	350	609	1055	.03	1266	.06	1447	.08	1643	.12	1828	.16	1994	.20								
	400	696	1146	.04	1341	.07	1508	.09	1667	.13	1839	.17	2007	.21	2160	.26						
	450	783	1239	.05	1416	.08	1583	.11	1725	.14	1866	.18	2018	.22	2171	.27	2314	.32	2448	.37		
	500	870	1330	.06	1500	.09	1657	.12	1798	.16	1924	.20	2050	.24	2186	.28	2325	.33	2460	.39	2587	.44
	550	957	1419	.07	1591	.11	1733	.14	1873	.18	1997	.22	2111	.26	2225	.30	2345	.35	2471	.41	2598	.46
	600	1044	1508	.09	1684	.13	1816	.16	1947	.20	2072	.24	2184	.29	2288	.33	2392	.38	2500	.43	2614	.49
	650	1131	1600	.11	1777	.15	1906	.19	2025	.23	2146	.27	2259	.31	2361	.36	2458	.41	2554	.46	2651	.51
	700	1218	1696	.13	1867	.17	1998	.21	2110	.26	2221	.30	2332	.35	2437	.40	2532	.44	2622	.50	2711	.55
	750	1305	1794	.15	1956	.19	2091	.24	2199	.29	2302	.33	2407	.38	2511	.43	2607	.48	2697	.54		
	800	1392	1893	.17	2045	.22	2183	.27	2292	.32	2390	.37	2486	.42	2585	.47	2681	.53				
	850	1479	1995	.20	2135	.25	2274	.31	2385	.36	2480	.41	2571	.46	2662	.52						
	900	1566	2096	.23	2228	.29	2363	.34	2478	.40	2573	.45	2660	.51								
	950	1653	2201	.27	2322	.32	2453	.38	2569	.44	2666	.50										
	1000	1740	2304	.31	2417	.36	2542	.43	2659	.49												
	1050	1827	2408	.35	2515	.41	2631	.47														

CPS & CPA (Flat blade)	CFM	OV	1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP		5.000 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	400	696	1644	.11																				
	475	826	1717	.13	1860	.17																		
	550	957	1819	.16	1943	.19	2067	.23	2191	.27														
	625	1088	1940	.19	2050	.22	2158	.26	2267	.30	2376	.35												
	700	1218	2064	.23	2171	.27	2269	.30	2366	.34	2464	.39	2658	.48	2852	.59								
	775	1349	2186	.28	2296	.32	2391	.36	2481	.40	2569	.44	2744	.53	2920	.64	3096	.76						
	850	1479	2304	.32	2418	.38	2516	.42	2604	.46	2687	.51	2848	.59	3008	.70	3168	.82	3328	.95	3488	1.08		
	925	1610	2424	.37	2537	.43	2639	.49	2729	.54	2812	.59	2963	.68	3110	.77	3258	.89	3405	1.02	3552	1.16	3699	1.30
	1000	1740	2548	.43	2655	.49	2758	.56	2852	.62	2936	.67	3086	.77	3225	.87	3361	.98	3497	1.10	3633	1.24	3769	1.38
	1075	1871	2678	.49	2777	.55	2876	.62	2971	.69	3059	.76	3212	.88	3347	.98	3475	1.09	3602	1.20	3728	1.33	3855	1.48
	1150	2002	2812	.57	2903	.63	2996	.70	3089	.77	3177	.85	3336	.99	3472	1.11	3597	1.22	3716	1.33	3835	1.45	3953	1.59
	1225	2132	2950	.66	3035	.72	3121	.78	3209	.86	3295	.94	3456	1.10	3597	1.24	3722	1.36	3838	1.48	3950	1.60	4061	1.73
	1300	2263	3090	.76	3170	.82	3250	.88	3333	.96	3415	1.04	3575	1.21	3719	1.37	3846	1.51	3963	1.64	4072	1.76	4178	1.89
	1375	2393	3232	.86	3308	.93	3383	1.00	3460	1.07	3538	1.15	3693	1.32	3839	1.50	3970	1.67	4088	1.81	4196	1.95		
	1450	2524	3376	.98	3449	1.05	3519	1.12	3592	1.19	3665	1.27	3813	1.44	3957	1.63	4091	1.82	4212	1.99				
	1525	2654	3522	1.11	3590	1.18	3659	1.26	3727	1.33	3796	1.41	3935	1.58	4075	1.77	4209	1.97						
	1600	2785	3667	1.25	3734	1.33	3800	1.41	3865	1.48	3929	1.56	4060	1.72	4195	1.92								
	1675	2916	3814	1.40	3878	1.48	3941	1.57	4003	1.65	4065	1.73	4190	1.89										
	1750	3046	3963	1.56	4025	1.65	4085	1.74	4145	1.82	4205	1.91												
	1825	3177	4110	1.73	4169	1.83	4229	1.93																

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

Performance Data CPV, CPS & CPA Size 100

Wheel Diameter: 10"

Tip Speed (FPM) = 2.62 x RPM

Inlet Area: .61 Sq. Ft.

Outlet Area: .57 Sq. Ft.

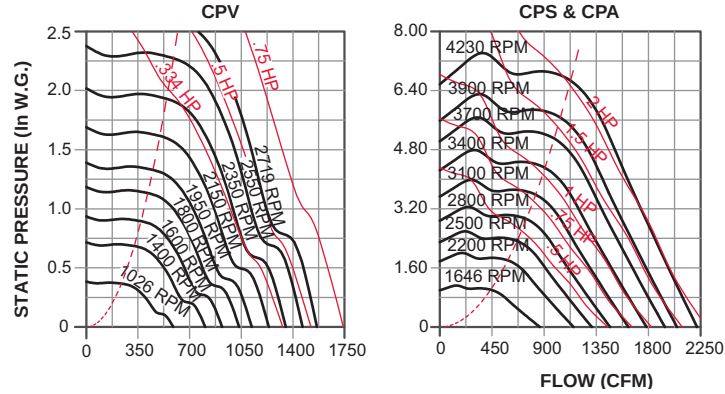
Outlet Velocity (FPM) = CFM/.57

CPV Max. RPM: 2719

CPS & CPA Max. RPM: 4230

Max. BHP = the following factor x
(RPM/1000)³

CPV	CPS & CPA
0.028	0.027



Do not select to left of dotted curve.

	CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CPV (Flat blade)	400	696	1026	.03	1257	.05	1482	.08														
	450	783	1100	.04	1306	.06	1509	.09	1707	.13	1893	.17										
	500	870	1179	.04	1365	.07	1549	.10	1731	.14	1907	.18	2075	.22								
	550	957	1261	.05	1430	.08	1599	.11	1765	.15	1930	.19	2090	.23	2244	.28						
	600	1044	1343	.06	1501	.09	1656	.13	1810	.16	1962	.20	2112	.25	2260	.29	2402	.34				
	650	1131	1421	.07	1577	.11	1719	.14	1863	.18	2004	.22	2144	.26	2283	.31	2419	.36	2552	.42	2680	.47
	700	1218	1489	.09	1656	.12	1788	.16	1922	.20	2054	.24	2184	.28	2314	.33	2443	.38	2570	.44	2695	.49
	750	1305	1531	.10	1738	.14	1860	.18	1984	.22	2109	.26	2232	.31	2354	.35	2475	.41	2596	.46	2715	.52
	800	1392	1568	.11	1820	.16	1937	.20	2052	.24	2169	.28	2286	.33	2401	.38	2515	.43	2629	.49		
	850	1479	1631	.12	1902	.18	2017	.22	2124	.26	2234	.31	2344	.36	2453	.41	2561	.46	2668	.52		
	900	1566	1703	.14	1981	.20	2098	.24	2200	.29	2303	.34	2407	.39	2510	.44	2613	.49	2715	.55		
	950	1653	1780	.16	2055	.22	2181	.27	2278	.32	2375	.37	2473	.42	2571	.47	2670	.53				
	1000	1740	1858	.18	2118	.25	2262	.30	2358	.35	2450	.40	2542	.45	2636	.51						
	1050	1827	1939	.21	2159	.27	2343	.33	2440	.38	2527	.44	2615	.49	2703	.55						
	1100	1915	2019	.23	2189	.29	2422	.37	2523	.42	2608	.47	2691	.53								
	1150	2002	2101	.26	2239	.32	2497	.40	2605	.46	2689	.52										
	1200	2089	2185	.29	2303	.35	2564	.44	2686	.50												
CPS & CPA (Flat blade)	1250	2176	2268	.33	2374	.38	2618	.47														
	1300	2263	2351	.36	2450	.42	2652	.50														
	1350	2350	2434	.40	2527	.46	2683	.53														
	1400	2437	2517	.44	2604	.50																
	1450	2524	2599	.48	2680	.54																
	1500	2611	2680	.52	2756	.58																
	1550	2698	2766	.56	2832	.62																
	1600	2785	2909	.60	2908	.66																
	1650	2872	2987	.64	2984	.70																
	1700	2959	3064	.68	3060	.74																
	1750	3046	3141	.72	3136	.78																
	1800	3133	3228	.76	3212	.82																
	1850	3220	3313	.80	3288	.86																
	1900	3307	3399	.84	3364	.90																
	1950	3394	3490	.88	3440	.94																

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

CPV, CPS, CPA, CPS-A & CPA-A Size 120 Performance Data

Wheel Diameter: 12"

Tip Speed (FPM) = 3.21 x RPM

Inlet Area: .92 Sq. Ft.

Outlet Area: .84 Sq. Ft.

Outlet Velocity (FPM) = CFM/.84

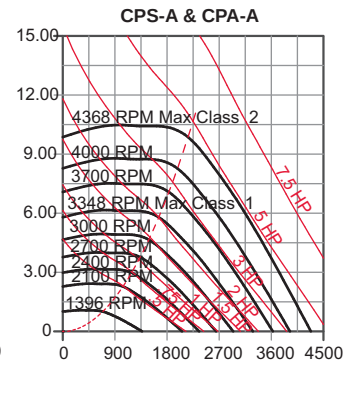
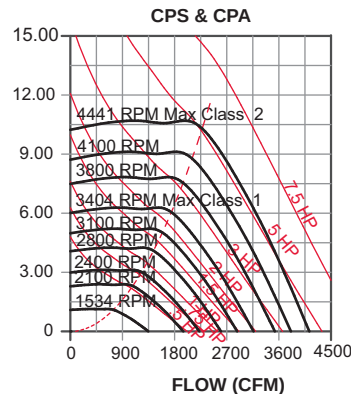
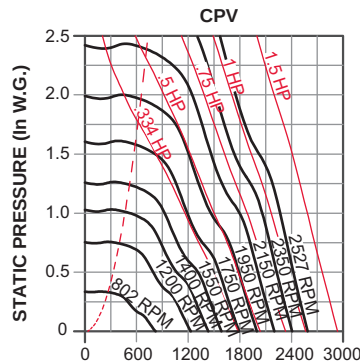
CPV Max. RPM: 2527

Max. RPM per class:

	CPS CPA	CPS-A CPA-A
Class I	3404	3348
Class II	4441	4368

Max. BHP = the following factor x (RPM/1000)³

CPV	CPS CPA	CPS-A CPA-A
0.068	0.056	0.054



In the charts above, do not select to left of dotted curve.
Below, the shaded area indicates Class II.

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
500	597	802	.03	1018	.07	1220	.11	1396	.15												
600	716	879	.04	1060	.08	1243	.12	1413	.17	1567	.22	1708	.27								
700	835	953	.06	1128	.09	1280	.14	1437	.19	1586	.24	1724	.30	1852	.35	1973	.42				
800	955	1017	.07	1205	.11	1340	.16	1474	.21	1612	.27	1745	.33	1871	.39	1989	.45	2101	.52	2208	.59
900	1074	1076	.09	1282	.14	1414	.19	1532	.24	1651	.30	1773	.36	1894	.42	2010	.49	2120	.56	2225	.63
1000	1194	1150	.11	1355	.16	1492	.22	1603	.27	1708	.33	1815	.40	1925	.46	2035	.54	2143	.61	2245	.68
1100	1313	1234	.13	1420	.19	1568	.25	1680	.31	1779	.37	1874	.44	1971	.51	2071	.58	2171	.66	2271	.74
1200	1433	1321	.16	1476	.22	1642	.28	1758	.35	1855	.42	1945	.49	2033	.56	2121	.64	2211	.71	2303	.80
1300	1552	1410	.19	1539	.25	1710	.33	1833	.40	1933	.47	2021	.54	2104	.62	2184	.69	2265	.78	2347	.86
1400	1671	1501	.23	1615	.29	1769	.37	1906	.45	2009	.52	2099	.60	2180	.68	2257	.76	2332	.84	2406	.93
1500	1791	1592	.27	1697	.34	1826	.42	1973	.50	2084	.58	2175	.66	2258	.75	2333	.83	2405	.92	2475	1.01
1600	1910	1683	.32	1783	.39	1891	.47	2033	.56	2155	.65	2251	.73	2335	.82	2411	.91	2482	1.00		
1700	2030	1776	.37	1871	.45	1966	.53	2089	.62	2221	.71	2324	.81	2410	.90	2488	1.00				
1800	2149	1868	.43	1960	.51	2048	.60	2151	.69	2280	.79	2393	.89	2484	.99						
1900	2268	1961	.50	2050	.58	2132	.67	2222	.76	2336	.86	2456	.97								
2000	2388	2055	.57	2141	.66	2219	.75	2299	.84	2397	.95	2513	1.06								
2100	2507	2148	.65	2232	.75	2307	.84	2382	.94	2467	1.04										
2200	2627	2241	.74	2323	.84	2397	.94	2468	1.04												
2300	2746	2337	.83	2415	.94	2486	1.04														
2400	2866	2431	.94	2508	1.05																

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
950	1134	1534	.22	1738	.31												
1200	1433	1724	.31	1905	.41	2070	.53										
1450	1731	1933	.43	2096	.55	2247	.68	2523	.96	2783	1.26						
1700	2030	2157	.58	2302	.72	2441	.87	2696	1.17	2930	1.50	3153	1.85				
1950	2328	2391	.78	2522	.94	2647	1.10	2885	1.44	3104	1.79	3308	2.16	3505	2.55		
2200	2627	2632	1.02	2752	1.20	2866	1.38	3085	1.75	3292	2.14	3484	2.53	3668	2.95	4016	3.83
2450	2925	2878	1.31	2987	1.51	3093	1.71	3296	2.12	3489	2.54	3673	2.97	3847	3.41	4173	4.34
2700	3224	3128	1.65	3229	1.88	3327	2.10	3515	2.54	3696	3.00	3869	3.46	4036	3.94	4348	4.92
2950	3522	3381	2.06	3475	2.30	3567	2.55	3742	3.03	3910	3.52	4074	4.02	4232	4.53		
3200	3821	3635	2.53	3723	2.80	3810	3.07	3973	3.59	4133	4.12	4287	4.65				
3450	4119	3893	3.09	3975	3.37	4056	3.66	4210	4.22								
3700	4418	4150	3.71	4229	4.02	4304	4.32										
3950	4716	4411	4.43														

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
700	835	1396	.15														
950	1134	1544	.21	1757	.30												
1200	1433	1719	.29	1915	.40	2091	.51	2413	.75								
1450	1731	1914	.40	2091	.53	2255	.66	2549	.93	2816	1.21						
1700	2030	2121	.54	2283	.69	2433	.83	2710	1.14	2959	1.46	3190	1.78	3413	2.13		
1950	2328	2338	.71	2487	.88	2626	1.04	2883	1.38	3121	1.74	3339	2.10	3544	2.47	3935	3.25
2200	2627	2561	.92	2699	1.11	2829	1.29	3069	1.67	3293	2.06	3502	2.46	3699	2.87	4062	3.71
2450	2925	2790	1.17	2918	1.38	3039	1.58	3265	2.00	3475	2.42	3674	2.86	3863	3.31	4213	4.22
2700	3224	3022	1.47	3142	1.69	3256	1.92	3469	2.38	3668	2.85	3856	3.31	4036	3.79		
2950	3522	3258	1.82	3370	2.07	3477	2.31	3679	2.82	3868	3.32	4047	3.83	4218	4.34		
3200	3821	3496	2.23	3602	2.49	3703	2.76	3895	3.31	4075	3.86	4245	4.40				
3450	4119	3736	2.70	3835	2.98	3932	3.27	4114	3.86	4285	4.44						
3700	4418	3979	3.24	4073	3.55	4163	3.85	4337	4.48								
3950	4716	4222	3.85	4311	4.18												

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

Performance Data CPV, CPS, CPA, CPS-A & CPA-A Size 135

Wheel Diameter: 13.5"

Tip Speed (FPM) = 3.53 x RPM

Inlet Area: 1.12 Sq. Ft.

Outlet Area: 1.06 Sq. Ft.

Outlet Velocity (FPM) = CFM/1.06

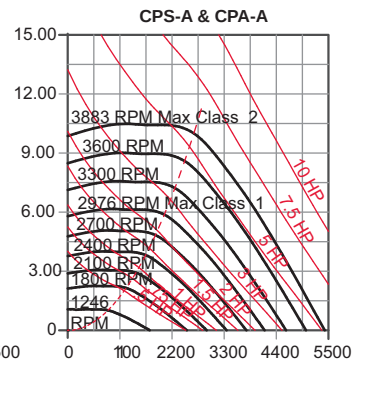
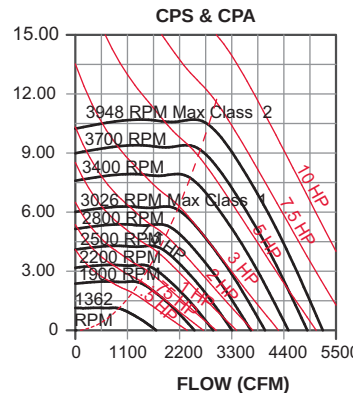
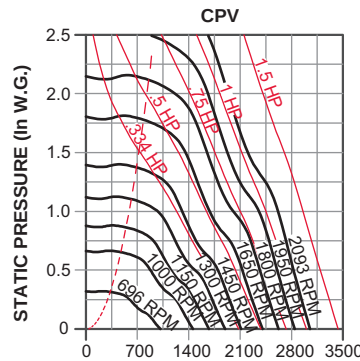
CPV Max. RPM: 2093

Max. RPM per class:

	CPS CPA	CPS-A CPA-A
Class I	3026	2976
Class II	3948	3883

Max. BHP = the following factor x
(RPM/1000)³

CPV	CPS CPA	CPS-A CPA-A
0.12	0.12	0.10



In the charts above, do not select to left of dotted curve.

Below, the shaded area indicates Class II.

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	568	696	.04	898	.08	1080	.13	1237	.18												
700	662	749	.05	921	.09	1094	.14	1248	.20	1386	.26	1708	.27								
800	757	803	.06	960	.11	1113	.16	1262	.22	1398	.28	1522	.35	1638	.42						
900	852	854	.07	1010	.12	1142	.18	1280	.24	1412	.31	1534	.38	1648	.45	1755	.53	1856	.61		
1000	946	899	.09	1065	.14	1185	.20	1306	.26	1430	.33	1549	.41	1661	.49	1766	.57	1866	.65	1962	.74
1100	1041	938	.10	1119	.16	1236	.22	1344	.29	1455	.36	1568	.44	1677	.52	1780	.61	1879	.69	1973	.78
1200	1136	986	.12	1171	.19	1290	.25	1391	.32	1490	.40	1592	.48	1696	.56	1797	.65	1893	.74	1986	.83
1300	1230	1042	.14	1221	.21	1345	.28	1444	.36	1535	.43	1626	.52	1721	.60	1817	.69	1911	.79	2002	.88
1400	1325	1101	.17	1265	.24	1398	.32	1498	.40	1586	.48	1670	.56	1755	.65	1843	.74	1932	.84	2020	.94
1500	1420	1163	.19	1304	.27	1450	.35	1552	.44	1639	.52	1719	.61	1797	.70	1877	.79	1959	.89	2042	1.00
1600	1514	1225	.23	1347	.30	1499	.39	1606	.48	1694	.57	1772	.66	1847	.75	1920	.85	1995	.95	2071	1.06
1700	1609	1288	.26	1396	.34	1543	.43	1658	.53	1748	.62	1826	.72	1899	.81	1969	.91	2038	1.02		
1800	1704	1352	.30	1451	.38	1583	.48	1708	.58	1801	.68	1881	.78	1953	.88	2021	.98	2087	1.09		
1900	1798	1416	.34	1509	.43	1623	.53	1755	.63	1853	.74	1935	.84	2008	.95	2075	1.06				
2000	1893	1480	.39	1570	.48	1668	.58	1797	.69	1903	.80	1988	.91	2062	1.02						
2100	1988	1545	.44	1631	.54	1719	.64	1836	.75	1951	.87	2040	.98								
2200	2082	1610	.50	1693	.60	1774	.70	1877	.81	1994	.94	2090	1.06								
2300	2177	1674	.56	1756	.66	1833	.77	1922	.88	2034	1.01										
2400	2272	1740	.62	1819	.73	1893	.84	1972	.96	2074	1.09										
2500	2366	1806	.70	1883	.81	1953	.92	2026	1.04												
2600	2461	1872	.77	1947	.89	2015	1.01	2084	1.13												
2700	2556	1936	.86	2011	.98	2077	1.10														

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1136	1362	0.27	1544	0.39												
1500	1420	1522	0.38	1684	0.52	1832	0.66										
1800	1704	1697	0.52	1844	0.68	1979	0.84	2227	1.18	2462	1.56						
2100	1988	1885	0.70	2016	0.88	2141	1.06	2370	1.44	2581	1.84	2783	2.28				
2400	2272	2080	0.92	2199	1.12	2313	1.32	2528	1.74	2724	2.18	2909	2.64	3087	3.13		
2700	2556	2282	1.20	2390	1.42	2495	1.64	2694	2.10	2880	2.58	3055	3.08	3220	3.59	3536	4.69
3000	2840	2488	1.53	2588	1.78	2685	2.02	2869	2.52	3045	3.04	3210	3.57	3368	4.12	3663	5.27
3300	3124	2697	1.92	2790	2.19	2879	2.46	3052	3.01	3216	3.57	3374	4.14	3524	4.72	3806	5.95
3600	3408	2909	2.38	2996	2.68	3079	2.97	3240	3.56	3395	4.17	3544	4.78	3687	5.40		
3900	3692	3124	2.91	3205	3.24	3283	3.56	3434	4.20	3579	4.84	3720	5.50	3857	6.16		
4200	3976	3339	3.52	3416	3.88	3489	4.22	3632	4.91	3769	5.60	3902	6.30				
4500	4260	3557	4.23	3628	4.60	3698	4.97	3833	5.72								
4800	4544	3773	5.01	3843	5.42	3909	5.82										

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	852	1246	.19														
1200	1136	1371	.27	1561	.38												
1500	1420	1518	.36	1693	.50	1850	.64										
1800	1704	1681	.49	1840	.65	1987	.81	2250	1.15	2491	1.50						
2100	1988	1855	.65	2001	.83	2136	1.01	2385	1.40	2608	1.79	2815	2.20				
2400	2272	2036	.85	2171	1.05	2297	1.26	2529	1.68	2742	2.12	2938	2.57	3122	3.03		
2700	2556	2223	1.09	2349	1.32	2466	1.55	2683	2.01	2885	2.49	3074	2.99	3250	3.50	3578	4.53
3000	2840	2414	1.37	2531	1.63	2642	1.88	2846	2.39	3037	2.92	3217	3.46	3386	4.01	3701	5.13
3300	3124	2609	1.71	2719	1.99	2822	2.27	3016	2.83	3196	3.40	3367	3.97	3530	4.57	3835	5.79
3600	3408	2807	2.11	2909	2.41	3007	2.71	3191	3.33	3363	3.94	3525	4.56	3681	5.19		
3900	3692	3006	2.56	3103	2.89	3195	3.22	3371	3.88	3534	4.55	3689	5.21	3838	5.89		
4200	3976	3209	3.10	3300	3.44	3387	3.79	3553	4.50	3710	5.22	3859	5.94				
4500	4260	3410	3.69	3498	4.07	3581	4.44	3739	5.20								
4800	4544	3617	4.38	3697	4.76	3778	5.17										
5100	4828	3821	5.14														

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

CPV, CPS, CPA, CPS-A & CPA-A Size 150 Performance Data

Wheel Diameter: 15"

Tip Speed (FPM) = 3.93 x RPM

Inlet Area: 1.39 Sq. Ft.

Outlet Area: 1.31 Sq. Ft.

Outlet Velocity (FPM) = CFM/1.31

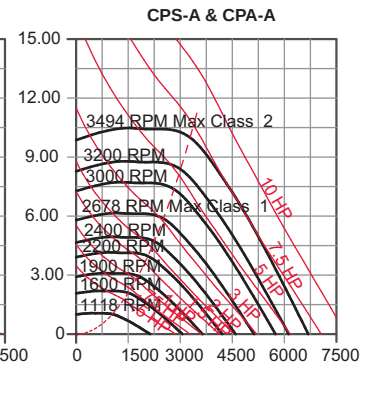
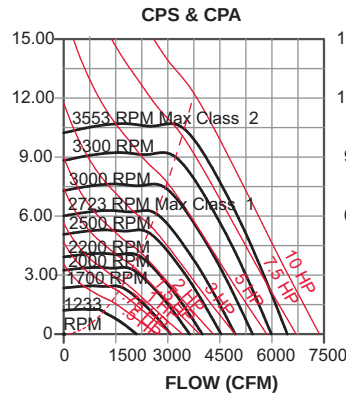
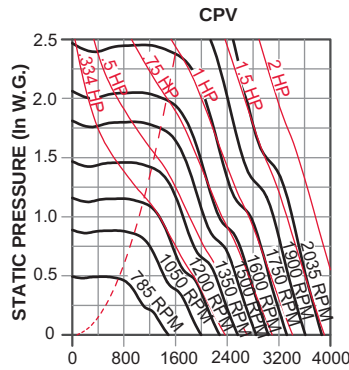
CPV Max. RPM: 2035

Max. RPM per class

	CPV	CPA	CPS-A	CPA-A
Class I	2723	2723	2678	2678
Class II	3553	3553	3494	3494

Max. BHP = the following factor x (RPM/1000)³

CPV	CPA	CPS-A	CPA-A
0.19	0.21	0.19	0.19



In the charts above, do not select to left of dotted curve.

Below, the shaded area indicates Class II.

CPV (Flat blade)	CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	1100	842	785	.09	904	.14	1018	.20	1141	.28												
	1250	957	836	.11	971	.17	1068	.24	1170	.31	1279	.39										
	1400	1072	882	.13	1041	.20	1130	.27	1217	.35	1309	.43	1405	.52	1503	.62						
	1550	1187	946	.16	1107	.24	1198	.32	1276	.40	1356	.48	1438	.57	1525	.67	1613	.78				
	1700	1302	1016	.20	1164	.28	1268	.37	1342	.45	1413	.54	1486	.63	1560	.73	1639	.84	1719	.95	1800	1.07
	1850	1416	1088	.24	1204	.33	1335	.42	1412	.52	1478	.61	1543	.71	1609	.81	1678	.91	1749	1.02	1822	1.14
	2000	1531	1161	.29	1255	.38	1397	.48	1481	.58	1546	.68	1607	.79	1667	.89	1729	1.00	1792	1.11	1857	1.23
	2150	1646	1236	.35	1319	.44	1444	.55	1548	.66	1616	.77	1675	.87	1731	.98	1787	1.10	1845	1.21	1903	1.33
	2300	1761	1310	.41	1388	.51	1484	.61	1610	.74	1685	.85	1745	.97	1799	1.08	1852	1.20	1904	1.32	1957	1.45
	2450	1876	1385	.48	1459	.58	1538	.69	1659	.82	1751	.95	1814	1.07	1869	1.20	1919	1.32	1969	1.44	2018	1.57
	2600	1991	1460	.56	1531	.67	1601	.78	1698	.91	1811	1.05	1881	1.18	1938	1.31	1989	1.44				
	2750	2106	1535	.65	1605	.76	1669	.88	1745	1.01	1858	1.16	1945	1.30	2006	1.44						
	2900	2221	1610	.74	1678	.87	1738	.99	1804	1.12	1897	1.27	2001	1.43								
	3050	2336	1686	.85	1752	.98	1811	1.11	1870	1.25	1943	1.39										
	3200	2450	1762	.97	1826	1.11	1883	1.24	1939	1.38	2000	1.53										
	3350	2565	1837	1.10	1901	1.24	1956	1.39	2008	1.53												
	3500	2680	1914	1.24	1975	1.39	2029	1.54														
	3650	2795	1991	1.39																		

CPS & CPA (Flat blade)	CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	1500	1148	1233	0.34	1395	0.49												
	1900	1455	1390	0.49	1533	0.66	1665	0.84										
	2300	1761	1562	0.69	1691	0.88	1811	1.09	2030	1.52	2235	1.99						
	2700	2068	1746	0.94	1861	1.16	1971	1.39	2174	1.88	2359	2.39	2535	2.93				
	3100	2374	1939	1.26	2042	1.51	2141	1.77	2330	2.31	2503	2.87	2665	3.45	2821	4.07		
	3500	2680	2137	1.65	2231	1.94	2321	2.23	2495	2.82	2658	3.43	2812	4.07	2957	4.72	3232	6.10
	3900	2987	2339	2.13	2426	2.46	2509	2.78	2668	3.42	2821	4.09	2967	4.77	3105	5.47	3364	6.94
	4300	3293	2544	2.71	2624	3.06	2701	3.41	2849	4.12	2991	4.84	3129	5.58	3261	6.33	3508	7.89
	4700	3599	2752	3.38	2826	3.77	2898	4.16	3035	4.93	3169	5.71	3298	6.50	3423	7.31		
	5100	3906	2960	4.16	3030	4.59	3098	5.02	3227	5.85	3352	6.69	3473	7.54				
	5500	4212	3172	5.08	3236	5.53	3300	5.99	3423	6.90	3540	7.80						
	5900	4518	3382	6.11	3445	6.61	3505	7.11										

CCPS-A & CPA-A (Airfoil)	CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	1100	842	1118	0.23														
	1500	1148	1240	0.33	1411	0.47												
	1900	1455	1385	0.47	1541	0.64	1681	0.82	1936	1.19								
	2300	1761	1545	0.65	1686	0.85	1816	1.05	2050	1.48	2262	1.92						
	2700	2068	1716	0.87	1844	1.10	1963	1.33	2183	1.82	2381	2.33	2564	2.84	2741	3.38		
	3100	2374	1895	1.15	2012	1.41	2122	1.68	2326	2.22	2515	2.79	2689	3.36	2851	3.95	3161	5.17
	3500	2680	2078	1.49	2187	1.79	2290	2.09	2480	2.69	2657	3.30	2823	3.94	2980	4.60	3268	5.91
	3900	2987	2266	1.91	2367	2.24	2463	2.57	2642	3.23	2808	3.90	2965	4.59	3116	5.31	3394	6.76
	4300	3293	2457	2.40	2552	2.76	2641	3.13	2810	3.86	2967	4.59	3116	5.34	3259	6.10		
	4700	3599	2650	2.98	2739	3.37	2824	3.77	2983	4.57	3132	5.37	3274	6.18	3410	6.99		
	5100	3906	2846	3.66	2929	4.08	3009	4.51	3160	5.38	3302	6.25	3437	7.12				
	5500	4212	3042	4.44	3122	4.90	3197	5.36	3340	6.28	3477	7.23						
	5900	4518	3243	5.35	3315	5.82	3388	6.32										
	6300	4825	3441	6.36														

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

Performance Data CPV, CPS, CPA, CPS-A & CPA-A Size 165

Wheel Diameter: 16.5"

Tip Speed (FPM) = 4.32 x RPM

Inlet Area: 1.67 Sq. Ft.

Outlet Area: 1.58 Sq. Ft.

Outlet Velocity (FPM) = CFM/1.58

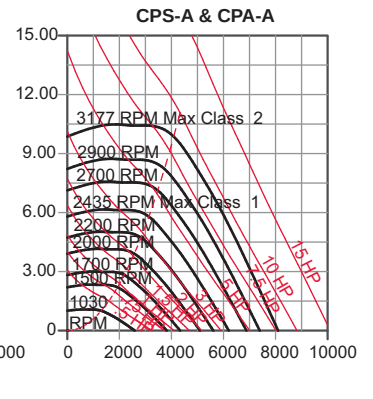
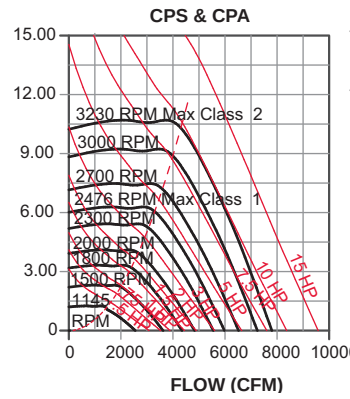
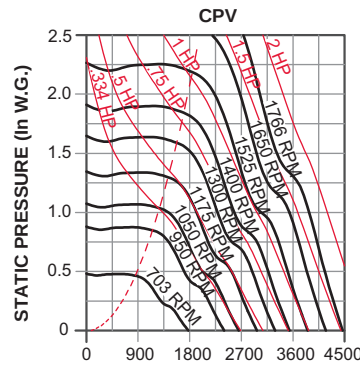
CPV Max. RPM: 1766

Max. RPM per class

	CPS CPA	CPS-A CPA-A
Class I	2476	2435
Class II	3230	3177

Max. BHP = the following factor x
(RPM/1000)³

CPV	CPS CPA	CPS-A CPA-A
0.31	0.33	0.30



In the charts above, do not select to left of dotted curve.

Below, the shaded area indicates Class II.

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1300	820	703	.10	812	.17	919	.24	1035	.33												
1450	915	747	.12	861	.19	954	.27	1052	.36	1156	.46										
1600	1010	777	.14	913	.22	997	.31	1083	.40	1174	.49	1268	.61								
1750	1105	819	.17	965	.26	1046	.35	1122	.44	1202	.54	1285	.65	1371	.77						
1900	1199	868	.20	1014	.30	1098	.39	1168	.49	1239	.59	1312	.70	1390	.82	1469	.95	1548	1.09		
2050	1294	921	.24	1056	.34	1150	.44	1218	.55	1283	.65	1349	.76	1417	.88	1488	1.01	1562	1.15	1635	1.29
2200	1389	975	.28	1087	.38	1201	.50	1270	.61	1331	.72	1391	.83	1453	.96	1517	1.08	1583	1.22	1651	1.37
2350	1483	1030	.33	1121	.43	1249	.56	1322	.67	1382	.79	1438	.91	1495	1.04	1553	1.17	1613	1.30	1674	1.45
2500	1578	1086	.38	1166	.49	1291	.62	1374	.75	1434	.87	1488	1.00	1541	1.13	1594	1.26	1649	1.40	1705	1.54
2650	1673	1141	.44	1215	.55	1322	.68	1423	.82	1486	.95	1540	1.09	1591	1.22	1640	1.36	1691	1.50	1742	1.65
2800	1768	1197	.50	1268	.62	1353	.75	1468	.90	1537	1.04	1592	1.18	1642	1.33	1689	1.47	1736	1.61		
2950	1862	1253	.57	1321	.70	1393	.83	1505	.99	1587	1.14	1644	1.29	1694	1.44	1740	1.58				
3100	1957	1310	.65	1375	.78	1440	.92	1534	1.07	1633	1.24	1695	1.40	1746	1.55						
3250	2052	1366	.74	1430	.87	1490	1.01	1566	1.17	1672	1.35	1744	1.51								
3400	2147	1422	.83	1485	.97	1543	1.12	1607	1.27	1703	1.45										
3550	2241	1479	.93	1541	1.08	1595	1.23	1653	1.39	1732	1.56										
3700	2336	1537	1.04	1597	1.20	1650	1.36	1703	1.51												
3850	2431	1593	1.16	1652	1.32	1704	1.48	1755	1.65												
4000	2525	1650	1.28	1709	1.46	1759	1.63														
4150	2620	1707	1.42	1765	1.60																

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1900	1199	1145	0.44	1288	0.62												
2400	1515	1295	0.64	1423	0.85	1540	1.07	1758	1.56								
2900	1831	1460	0.90	1574	1.14	1681	1.40	1875	1.94	2056	2.52						
3400	2147	1635	1.23	1736	1.51	1833	1.80	2014	2.41	2179	3.04	2335	3.71	2487	4.42		
3900	2462	1818	1.66	1909	1.98	1996	2.30	2163	2.97	2318	3.67	2463	4.39	2601	5.15	2867	6.77
4400	2778	2005	2.19	2088	2.55	2167	2.91	2321	3.65	2466	4.41	2603	5.19	2733	6.01	2978	7.72
4900	3094	2195	2.82	2272	3.23	2345	3.63	2487	4.45	2622	5.27	2751	6.12	2875	7.00	3106	8.81
5400	3409	2388	3.58	2460	4.04	2528	4.48	2659	5.37	2785	6.27	2906	7.18	3024	8.13		
5900	3725	2585	4.49	2650	4.98	2714	5.47	2836	6.44	2954	7.41	3067	8.39	3179	9.41		
6400	4041	2782	5.55	2843	6.08	2902	6.60	3018	7.67	3128	8.71						
6900	4357	2981	6.77	3038	7.34	3093	7.90	3202	9.05								
7400	4672	3180	8.16														

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1400	884	1030	0.29														
1900	1199	1149	0.43	1302	0.61	1441	0.79										
2400	1515	1288	0.61	1427	0.82	1553	1.05	1779	1.51								
2900	1831	1442	0.84	1566	1.09	1682	1.35	1892	1.89	2080	2.44						
3400	2147	1604	1.14	1718	1.43	1824	1.72	2019	2.33	2197	2.96	2360	3.60	2517	4.27		
3900	2462	1773	1.51	1878	1.84	1975	2.17	2157	2.85	2325	3.55	2481	4.28	2627	5.01	2901	6.52
4400	2778	1947	1.97	2044	2.34	2135	2.72	2304	3.47	2461	4.23	2610	5.03	2750	5.84	3009	7.49
4900	3094	2124	2.52	2214	2.93	2299	3.35	2458	4.18	2606	5.02	2746	5.88	2880	6.76	3131	8.59
5400	3409	2305	3.18	2388	3.63	2468	4.09	2618	5.01	2758	5.93	2891	6.86	3018	7.81		
5900	3725	2486	3.95	2565	4.44	2640	4.94	2782	5.95	2915	6.95	3041	7.96	3162	8.97		
6400	4041	2672	4.86	2745	5.39	2816	5.93	2950	7.01	3077	8.11						
6900	4357	2858	5.91	2927	6.48	2993	7.05	3121	8.21								
7400	4672	3045	7.11	3110	7.71	3173	8.32										

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

CPV, CPS, CPA, CPS-A & CPA-A Size 180 Performance Data

Wheel Diameter: 18"

Tip Speed (FPM) = 4.71 x RPM

Inlet Area: 2.03 Sq. Ft.

Outlet Area: 1.88 Sq. Ft.

Outlet Velocity (FPM) = CFM/1.88

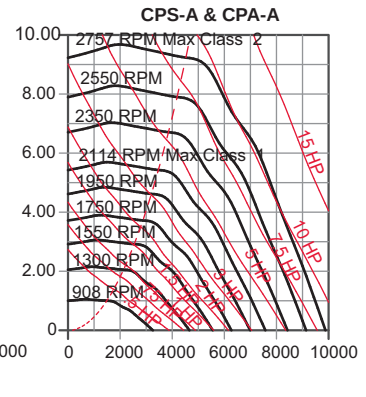
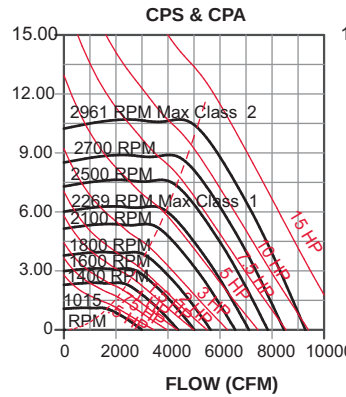
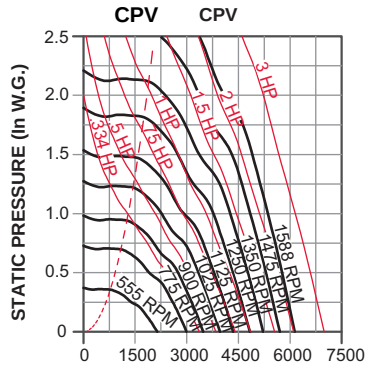
CPV Max. RPM: 1588

Max. RPM per class

	CPS CPA	CPS-A CPA-A
Class I	2269	2114
Class II	2961	2757

Max. BHP = the following factor x
(RPM/1000)³

CPV	CPS CPA	CPS-A CPA-A
0.56	0.43	0.52



In the charts above, do not select to left of dotted curve.

Below, the shaded area indicates Class II.

	CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CPV (Flat blade)	1400	744	555	.09	697	.17	821	.26	932	.35												
	1600	851	579	.11	724	.19	840	.29	947	.39	1044	.50										
	1800	957	609	.13	757	.23	864	.32	966	.44	1060	.55	1147	.67	1230	.80						
	2000	1063	648	.15	787	.26	893	.36	987	.48	1078	.61	1163	.74	1243	.87	1319	1.01				
	2200	1170	689	.18	811	.29	926	.41	1014	.53	1100	.66	1182	.80	1260	.94	1334	1.09	1404	1.24	1472	1.39
	2400	1276	732	.22	837	.33	958	.46	1046	.59	1125	.72	1203	.86	1279	1.02	1352	1.17	1420	1.33	1486	1.49
	2600	1383	776	.26	871	.37	983	.51	1079	.65	1156	.79	1229	.94	1301	1.09	1371	1.26	1439	1.43	1503	1.59
	2800	1489	821	.30	910	.43	1006	.56	1110	.72	1189	.87	1258	1.02	1326	1.18	1393	1.34	1459	1.52	1522	1.70
	3000	1595	867	.36	951	.48	1035	.62	1135	.79	1221	.95	1291	1.11	1356	1.27	1418	1.44	1481	1.62	1543	1.81
	3200	1702	913	.41	994	.55	1070	.69	1158	.85	1250	1.04	1324	1.21	1388	1.38	1448	1.55	1507	1.73	1566	1.92
	3400	1808	959	.47	1037	.62	1109	.77	1185	.93	1274	1.12	1355	1.31	1421	1.49	1481	1.67	1537	1.85		
	3600	1914	1007	.55	1081	.700	1150	.86	1218	1.02	1297	1.20	1381	1.41	1453	1.61	1514	1.80	1569	1.99		
	3800	2021	1055	.63	1125	.79	1192	.95	1255	1.12	1324	1.30	1404	1.51	1481	1.73	1546	1.93				
	4000	2127	1104	.71	1170	.88	1235	1.05	1295	1.23	1357	1.40	1428	1.61	1505	1.84	1575	2.07				
	4200	2234	1152	.81	1216	.98	1278	1.16	1337	1.35	1394	1.53	1457	1.73	1528	1.96						
	4400	2340	1201	.91	1261	1.09	1322	1.28	1379	1.47	1433	1.66	1490	1.86	1553	2.08						

	CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CPS & CPA (Flat blade)	2100	1117	1015	0.48	1152	0.68												
	2700	1436	1150	0.69	1270	0.93	1380	1.19										
	3300	1755	1298	0.98	1406	1.26	1507	1.56	1689	2.18	1861	2.86						
	3900	2074	1458	1.36	1554	1.68	1645	2.02	1814	2.72	1968	3.45	2114	4.24				
	4500	2393	1626	1.85	1711	2.21	1794	2.59	1949	3.36	2094	4.18	2228	5.02	2357	5.91		
	5100	2712	1799	2.45	1876	2.87	1951	3.29	2094	4.15	2229	5.03	2356	5.95	2476	6.90	2704	8.90
	5700	3032	1974	3.18	2045	3.65	2114	4.12	2245	5.06	2371	6.03	2492	7.03	2606	8.05	2820	10.20
	6300	3351	2152	4.06	2218	4.59	2281	5.10	2403	6.14	2520	7.19	2633	8.27	2742	9.37	2947	11.60
	6900	3670	2333	5.12	2394	5.69	2452	6.25	2566	7.39	2675	8.52	2782	9.69	2884	10.90		
	7500	3989	2515	6.34	2572	6.97	2626	7.58	2734	8.83	2836	10.10	2935	11.30				
	8100	4308	2699	7.77	2751	8.43	2803	9.11	2904	10.50								
	8700	4627	2882	9.39	2932	10.10												

	CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CPS-A & CPA-A (Airfoil)	1500	797	908	0.31														
	2100	1117	976	0.43	1122	0.62												
	2700	1436	1073	0.61	1219	0.85	1331	1.08	1574	1.64								
	3300	1755	1193	0.83	1314	1.11	1439	1.41	1629	1.97	1823	2.63						
	3900	2074	1333	1.14	1430	1.44	1531	1.76	1738	2.46	1896	3.13	2054	3.86	2227	4.70		
	4500	2393	1476	1.50	1568	1.87	1651	2.22	1832	2.99	2007	3.79	2145	4.55	2278	5.35	2572	7.23
	5100	2712	1620	1.94	1709	2.37	1788	2.77	1935	3.58	2101	4.48	2256	5.40	2382	6.26	2617	8.08
	5700	3032	1769	2.48	1853	2.96	1929	3.42	2064	4.32	2198	5.24	2349	6.26	2490	7.29	2715	9.23
	6300	3351	1921	3.12	1997	3.64	2071	4.16	2202	5.18	2320	6.16	2445	7.20	2581	8.33		
	6900	3670	2075	3.88	2146	4.44	2216	5.02	2344	6.15	2456	7.24	2564	8.32	2678	9.47		
	7500	3989	2231	4.77	2296	5.36	2362	5.99	2486	7.24	2596	8.44	2696	9.60				
	8100	4308	2390	5.80	2450	6.43	2511	7.09	2629	8.44	2738	9.78						

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

Performance Data CPV, CPS, CPA, CPS-A & CPA-A Size 195

Wheel Diameter: 19.5"

Tip Speed (FPM) = 5.11 x RPM

Inlet Area: 2.31 Sq. Ft.

Outlet Area: 2.21 Sq. Ft.

Outlet Velocity (FPM) = CFM/2.21

CPV Max. RPM

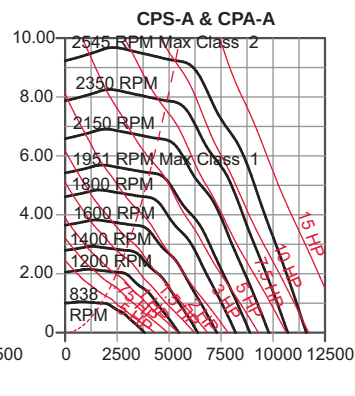
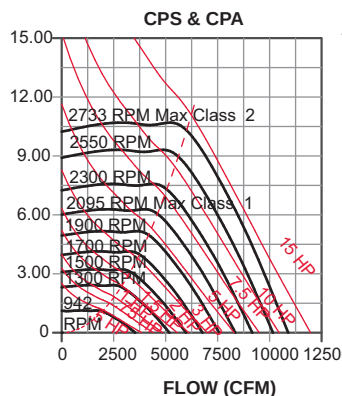
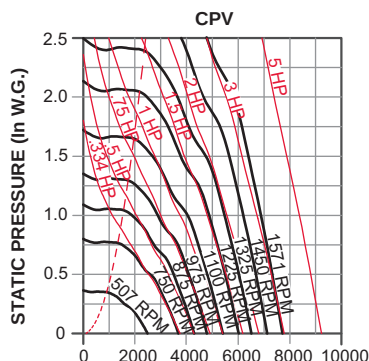
Standard wheel	1429
Reinforced wheel	1571

Max. RPM per class

	CPS CPA	CPS-A CPA-A
Class I	2095	1951
Class II	2733	2545

Max. BHP = the following factor x (RPM/1000)³

CPV	CPS CPA	CPS-A CPA-A
0.84	0.64	0.77



In the charts above, do not select to left of dotted curve.

Below: On CPV, shaded area indicates reinforced wheel required. On all others, shaded area indicates Class II.

	CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CPV (Flat blade)	1600	723	507	.10	639	.19	755	.30	858	.41												
	1900	859	537	.13	671	.23	778	.34	876	.47	965	.60										
	2200	995	575	.16	710	.28	807	.40	899	.53	985	.67	1064	.82	1139	.97						
	2500	1130	623	.20	742	.33	844	.46	927	.60	1008	.75	1085	.91	1158	1.08	1226	1.24	1292	1.42		
	2800	1266	673	.25	771	.38	882	.54	964	.69	1037	.84	1110	1.01	1180	1.19	1247	1.37	1310	1.55	1371	1.74
	3100	1402	725	.31	811	.45	912	.61	1003	.79	1073	.95	1140	1.12	1205	1.30	1270	1.50	1332	1.69	1392	1.90
	3400	1537	778	.38	858	.53	941	.69	1036	.88	1113	1.07	1176	1.24	1237	1.43	1297	1.63	1356	1.84	1415	2.06
	3700	1673	832	.47	908	.63	979	.79	1064	.98	1148	1.19	1216	1.39	1274	1.58	1330	1.78	1385	2.00	1440	2.22
	4000	1809	887	.56	959	.73	1025	.91	1095	1.09	1177	1.32	1252	1.54	1313	1.75	1368	1.96	1420	2.18	1471	2.40
	4300	1944	944	.67	1011	.85	1074	1.04	1135	1.23	1205	1.44	1282	1.69	1350	1.93	1407	2.16	1459	2.39	1507	2.61
	4600	2080	1001	.79	1063	.98	1124	1.19	1180	1.38	1240	1.59	1309	1.84	1381	2.11	1444	2.37	1498	2.61	1546	2.85
	4900	2216	1058	.93	1117	1.13	1175	1.35	1229	1.56	1282	1.77	1341	2.01	1408	2.28	1474	2.56	1534	2.84		
	5200	2352	1116	1.09	1171	1.3	1226	1.52	1279	1.75	1329	1.98	1380	2.21	1438	2.47	1502	2.76	1564	3.06		
	5500	2487	1174	1.27	1226	1.48	1279	1.72	1330	1.96	1378	2.2	1425	2.44	1475	2.69	1531	2.97				
	5800	2623	1232	1.46	1282	1.69	1332	1.93	1381	2.19	1428	2.44	1472	2.68	1518	2.94	1566	3.21				
	6100	2759	1291	1.67	1338	1.91	1386	2.16	1433	2.43	1478	2.69	1522	2.96	1564	3.22						
	6400	2894	1350	1.91	1395	2.15	1440	2.41	1485	2.69	1529	2.97										
	6700	3030	1409	2.17	1452	2.42	1495	2.69	1538	2.97												
	7000	3166	1468	2.44	1509	2.71	1550	2.98														
CPS & CPA (Flat blade)	2500	1130	942	0.57	1068	0.81																
	3200	1447	1067	0.82	1178	1.11			1279	1.41												
	3900	1764	1204	1.16	1303	1.50			1395	1.84	1563	2.58	1721	3.38								
	4600	2080	1351	1.61	1439	2.00			1523	2.39	1678	3.21	1820	4.08	1955	5.00	2088	5.99				
	5300	2397	1505	2.18	1584	2.62			1659	3.06	1803	3.97	1936	4.93	2060	5.92	2179	6.97				
	6000	2713	1663	2.89	1734	3.38			1803	3.87	1935	4.88	2060	5.93	2177	7.01	2288	8.12	2498	10.50		
	6700	3030	1824	3.75	1890	4.30			1953	4.85	2074	5.96	2191	7.10	2302	8.27	2407	9.47	2605	12.00		
	7400	3347	1988	4.78	2049	5.40			2107	6.00	2219	7.21	2327	8.45	2432	9.72	2533	11.00	2721	13.70		
	8100	3663	2154	6.01	2210	6.68			2264	7.34	2369	8.67	2470	10.00	2568	11.40	2663	12.80				
	8800	3980	2321	7.44	2374	8.18			2424	8.89	2523	10.40	2617	11.80	2709	13.30						
	9500	4297	2489	9.10	2538	9.88			2586	10.70	2679	12.20										
	10200	4613	2658	11.00	2704	11.80																
CPS-A & CPA-A (Airfoil)	1800	814	838	0.37																		
	2500	1130	906	0.52	1038	0.74			1185	1.02												
	3200	1447	995	0.72	1130	1.01			1233	1.28	1454	1.94										
	3900	1764	1107	0.99	1216	1.31			1332	1.67	1508	2.34	1685	3.11								
	4600	2080	1235	1.35	1324	1.70			1417	2.09	1608	2.91	1754	3.70	1898	4.55	2057	5.54				
	5300	2397	1366	1.78	1451	2.20			1527	2.62	1694	3.52	1855	4.47	1983	5.37	2105	6.30	2375	8.51		
	6000	2713	1498	2.29	1581	2.79			1653	3.27	1789	4.22	1942	5.28	2085	6.36	2201	7.37	2417	9.49		
	6700	3030	1635	2.92	1712	3.48			1783	4.03	1907	5.08	2031	6.16	2170	7.37	2300	8.57	2508	10.90		
	7400	3347	1774	3.67	1845	4.28			1913	4.89	2034	6.08	2143	7.24	2258	8.46	2384	9.79				
	8100	3663	1916	4.56	1981	5.21			2046	5.89	2164	7.22	2267	8.49	2367	9.76	2472	11.10				
	8800	3980	2059	5.59	2119	6.28			2180	7.02	2294	8.48	2396	9.90	2489	11.30						
	9500	4297	2205	6.80	2261	7.54			2317	8.31	2426	9.90	2526	11.50								
	10200	4613	2350	8.16	2404	8.97			2455	9.76												
	10900	4930	2498	9.73																		

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

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Performance Data CPV, CPS, CPA, CPS-A & CPA-A Size 270

Wheel Diameter: 27"

Tip Speed (FPM) = 7.07 x RPM

Inlet Area: 4.35 Sq. Ft.

Outlet Area: 4.23 Sq. Ft.

Outlet Velocity (FPM) = CFM/4.23

CPV Max. RPM

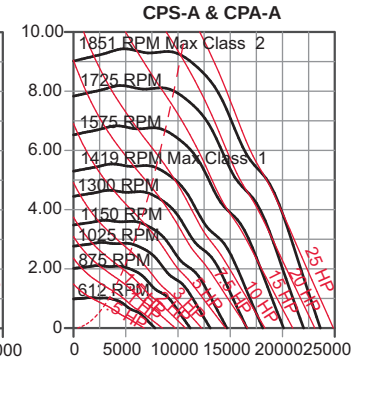
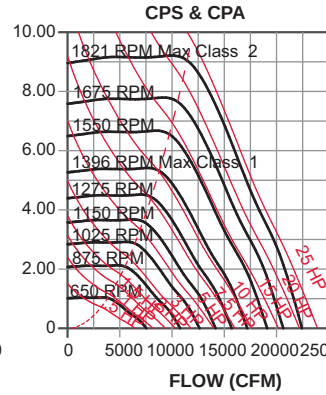
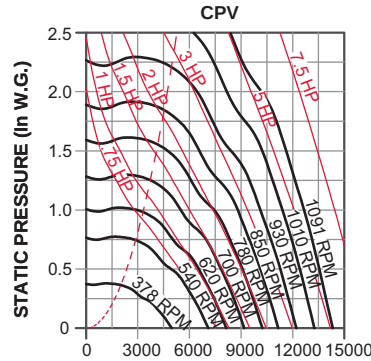
Standard wheel	876
Reinforced wheel	1091

Max. RPM per class

	CPS CPA	CPS-A CPA-A
Class I	1396	1419
Class II	1821	1851

Max. BHP = following factor x
(RPM/1000)³

CPV	CPS CPA	CPS-A CPA-A
4.36	3.90	3.96



In the charts above, do not select to left of dotted curve.

Below: On CPV, shaded area indicates reinforced wheel required. On all others, shaded area indicates Class II.

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3400	802	378	.22	472	.41	552	.61	627	.85												
3900	921	398	.27	495	.48	567	.70	637	.94	702	1.20										
4400	1039	425	.33	519	.55	588	.79	652	1.05	714	1.32										
4900	1157	455	.41	538	.64	613	.90	671	1.17	728	1.46	784	1.76	837	2.09	888	2.43				
5400	1275	486	.49	557	.74	637	1.03	695	1.31	747	1.62	799	1.94	849	2.26	899	2.61	946	2.98	991	3.36
5900	1393	518	.60	582	.86	656	1.16	720	1.47	770	1.79	818	2.12	865	2.47	911	2.81	957	3.19	1001	3.58
6400	1511	550	.71	611	.99	674	1.30	742	1.63	795	1.97	841	2.32	884	2.68	928	3.06	971	3.44	1014	3.84
6900	1629	583	.84	641	1.14	696	1.47	760	1.81	819	2.18	865	2.54	907	2.92	948	3.31	988	3.71	1028	4.11
7400	1747	618	1.00	672	1.31	723	1.65	779	2.01	839	2.39	890	2.78	932	3.17	971	3.58	1009	4.00	1046	4.42
7900	1865	652	1.16	704	1.50	752	1.85	801	2.23	856	2.62	911	3.03	957	3.45	996	3.87	1033	4.31	1068	4.75
8400	1983	687	1.36	736	1.71	782	2.07	827	2.47	876	2.88	929	3.30	979	3.75	1020	4.18	1057	4.63		
8900	2101	723	1.57	768	1.93	813	2.32	855	2.73	898	3.15	947	3.59	998	4.06	1043	4.52	1082	4.99		
9400	2220	758	1.81	801	2.19	845	2.60	885	3.01	925	3.45	968	3.91	1015	4.38	1062	4.86				
9900	2338	795	2.08	835	2.47	876	2.89	916	3.33	953	3.78	992	4.25	1034	4.73	1080	5.24				
10400	2456	831	2.36	869	2.77	908	3.21	947	3.67	983	4.13	1019	4.62	1057	5.12						
10900	2574	867	2.68	904	3.11	941	3.56	978	4.03	1014	4.52	1048	5.02	1082	5.53						
11400	2692	904	3.03	939	3.47	974	3.94	1010	4.42	1045	4.93	1077	5.43								
11900	2810	941	3.41	974	3.86	1007	4.34	1042	4.85	1076	5.37										
12400	2928	978	3.81	1009	4.28	1041	4.78	1074	5.30												
12900	3046	1015	4.25	1045	4.74	1075	5.24														

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4900	1157	650	1.07	748	1.57												
6300	1487	730	1.52	812	2.09	889	2.70										
7700	1818	818	2.13	893	2.79	960	3.46	1088	4.96								
9100	2149	907	2.90	981	3.68	1043	4.44	1158	6.07	1266	7.83	1371	9.74				
10500	2479	994	3.81	1070	4.76	1132	5.66	1238	7.43	1336	9.32	1430	11.30	1522	13.50		
11900	2810	1087	4.95	1157	6.02	1221	7.08	1325	9.09	1417	11.10	1503	13.30	1587	15.50	1749	20.40
13300	3141	1186	6.35	1246	7.50	1309	8.72	1415	11.00	1503	13.30	1584	15.60	1661	17.90	1810	23.00
14700	3471	1289	8.05	1340	9.26	1396	10.60	1504	13.20	1591	15.70	1669	18.20	1743	20.70		
16100	3802	1393	10.00	1438	11.30	1488	12.70	1591	15.70	1681	18.50	1758	21.20				
17500	4133	1501	12.40	1540	13.80	1584	15.20	1679	18.40	1769	21.50						
18900	4463	1608	15.10	1645	16.60	1684	18.20	1768	21.40								
20300	4794	1718	18.40	1751	19.90	1786	21.50										

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3500	826	612	.74														
4900	1157	656	1.03	764	1.51	864	2.06										
6300	1487	734	1.47	818	2.01	902	2.60	1065	3.95								
7700	1818	802	2.00	899	2.70	968	3.35	1104	4.76	1240	6.38	1365	8.11				
9100	2149	873	2.65	969	3.49	1050	4.31	1167	5.86	1283	7.54	1399	9.37	1510	11.30		
10500	2479	963	3.50	1032	4.37	1119	5.38	1248	7.22	1347	9.01	1447	10.90	1549	13.00	1743	17.40
11900	2810	1060	4.57	1116	5.50	1180	6.52	1327	8.78	1427	10.80	1515	12.80	1602	15.00	1782	19.60
13300	3141	1159	5.87	1210	6.90	1261	7.95	1388	10.40	1508	12.80	1596	15.10	1674	17.30	1831	22.10
14700	3471	1260	7.43	1307	8.56	1352	9.69	1451	12.10	1576	15.00	1677	17.60	1756	20.10		
16100	3802	1362	9.27	1407	10.50	1448	11.70	1533	14.30	1634	17.20	1747	20.30	1837	23.10		
17500	4133	1465	11.40	1506	12.70	1546	14.10	1623	16.80	1705	19.70	1805	23.00				
18900	4463	1569	13.90	1608	15.30	1646	16.80	1717	19.70	1789	22.70						
20300	4794	1673	16.70	1711	18.30	1746	19.80	1814	23.00								
21700	5124	1778	20.00	1813	21.60	1848	23.30										

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

Performance Data CPV, CPS, CPA, CPS-A & CPA-A Size 330

Wheel Diameter: 33"

Tip Speed (FPM) = 8.64 x RPM

Inlet Area: 6.49 Sq. Ft.

Outlet Area: 6.33 Sq. Ft.

Outlet Velocity (FPM) = CFM/6.33

CPV Max. RPM

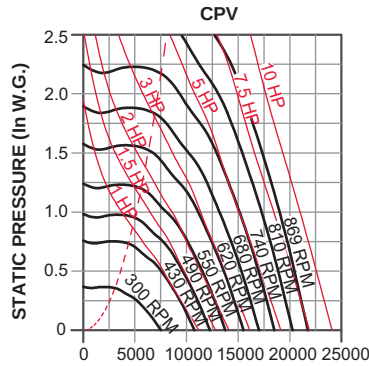
Standard wheel	716
Reinforced wheel	869

Max. RPM per class

	CPS CPA	CPS-A CPA-A
Class I	1142	1161
Class II	1490	1514

Max. BHP = following factor x
(RPM/1000)³

CPV	CPS CPA	CPS-A CPA-A
12.4	10.6	10.8



CPV, CPS, CPA, CPS-A & CPA-A Size 365 Performance Data

Wheel Diameter: 36.5"

Tip Speed (FPM) = 9.56 x RPM

Inlet Area: 7.98 Sq. Ft.

Outlet Area: 7.73 Sq. Ft.

Outlet Velocity (FPM) = CFM/7.73

CPV Max. RPM

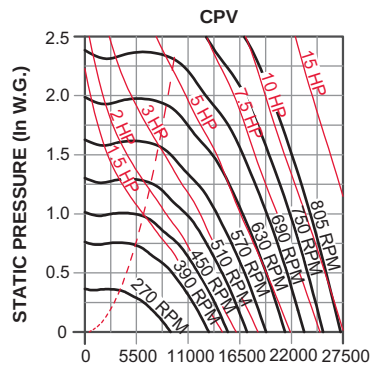
Standard wheel	624
Reinforced wheel	805

Max. RPM per class

	CPS CPA	CPS-A CPA-A
Class I	1023	1064
Class II	1334	1388

Max. BHP = following factor x
(RPM/1000)³

CPV	CPS CPA	CPS-A CPA-A
20.5	19.4	17.5



Performance Data CPV, CPS, CPA, CPS-A & CPA-A Size 402

Wheel Diameter: 40.25"

Tip Speed (FPM) = 10.54 x RPM

Inlet Area: 9.72 Sq. Ft.

Outlet Area: 9.41 Sq. Ft.

Outlet Velocity (FPM) = CFM/9.41

CPV Max. RPM

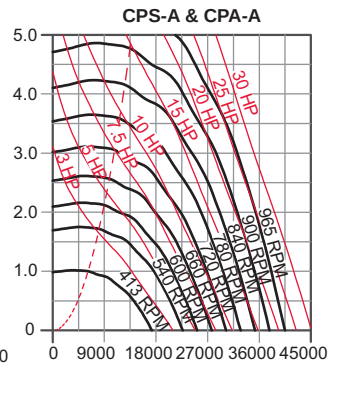
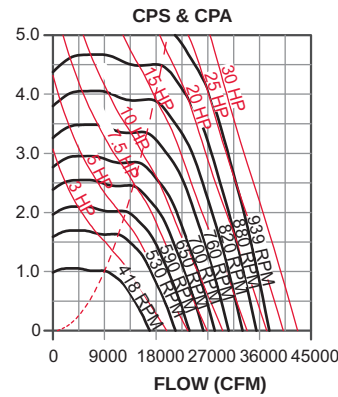
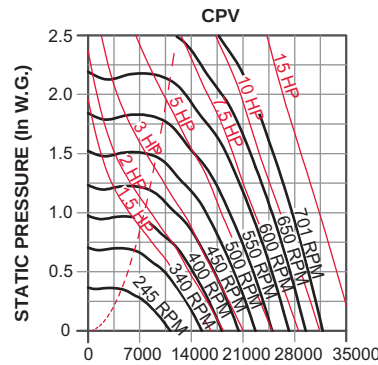
Standard wheel	539
Reinforced wheel	701

CPS & CPA Max. RPM: 939

CPS-A & CPA-A Max. RPM: 965

Max. BHP = following factor x
(RPM/1000)³

CPV	CPS CPA	CPS-A CPA-A
33.5	31.3	28.4



In the charts above, do not select to left of dotted curve.

Shaded area indicates reinforced wheel required

	CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
			RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM	
			BHP		BHP		BHP		BHP		BHP		BHP		BHP		BHP		BHP		BHP	
CPV (Flat blade)	7700	818	245	.48	311	.89	364	1.35	412	1.85												
	8700	924	261	.59	321	1.01	374	1.52	418	2.03	461	2.60										
	9700	1030	277	.71	332	1.15	384	1.68	428	2.25	468	2.85	506	3.47								
	10700	1137	294	.85	345	1.32	394	1.87	438	2.47	477	3.11	513	3.76	548	4.45						
	11700	1243	311	1.00	359	1.52	404	2.06	448	2.70	487	3.38	522	4.07	555	4.78	587	5.52	619	6.30		
	12700	1349	329	1.18	375	1.75	416	2.30	458	2.95	498	3.68	533	4.42	564	5.14	595	5.92	625	6.72	654	7.53
	13700	1456	348	1.39	391	2.00	431	2.61	469	3.24	507	3.97	543	4.76	575	5.55	605	6.36	633	7.17	661	8.02
	14700	1562	367	1.62	408	2.27	446	2.93	481	3.56	517	4.29	553	5.12	585	5.94	615	6.79	643	7.66	670	8.54
	15700	1668	386	1.88	425	2.57	462	3.28	495	3.94	529	4.68	562	5.47	595	6.36	626	7.28	654	8.18	680	9.09
	16700	1774	406	2.17	443	2.90	478	3.65	510	4.36	542	5.11	573	5.90	605	6.80	636	7.75	664	8.69	691	9.67
	17700	1881	426	2.50	461	3.26	495	4.06	526	4.83	556	5.60	585	6.38	615	7.26	645	8.22	674	9.23	701	10.20
	18700	1987	446	2.85	479	3.64	512	4.49	542	5.31	571	6.13	599	6.94	627	7.81	655	8.74	684	9.79		
	19700	2093	466	3.24	498	4.08	529	4.95	559	5.85	587	6.71	614	7.56	640	8.41	667	9.36	694	10.40		
	20700	2199	487	3.68	517	4.54	547	5.46	576	6.40	603	7.31	629	8.20	654	9.08	679	10.00				
	21700	2306	508	4.16	536	5.04	565	6.00	593	6.98	619	7.93	645	8.91	669	9.82	693	10.80				
	22700	2412	529	4.69	556	5.6	583	6.57	610	7.59	636	8.62	661	9.63	685	10.60						
	23700	2518	550	5.25	576	6.21	602	7.21	628	8.27	653	9.33	677	10.40	701	11.40						
	24700	2625	571	5.86	596	6.85	621	7.89	646	8.98	670	10.10	694	11.20								
	25700	2731	591	6.48	616	7.54	640	8.61	664	9.72	688	10.90										
	26700	2837	613	7.21	636	8.27	659	9.37	682	10.50												
	27700	2943	634	7.97	656	9.04	679	10.20	701	11.40												
	28700	3050	656	8.81	677	9.91	699	11.10														
CPS & CPA (Flat blade)			1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP	
			RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM	
			BHP		BHP		BHP		BHP		BHP		BHP		BHP		BHP		BHP		BHP	
	9450	1104	418	2.01																		
	10950	1163	433	2.33	470	2.90																
	12450	1323	450	2.74	486	3.31	520	3.96	553	4.65												
	13950	1482	472	3.27	504	3.85	536	4.47	567	5.18	596	5.92										
	15450	1642	498	3.87	525	4.49	554	5.14	584	5.84	612	6.57	665	8.20								
	16950	1801	527	4.57	551	5.24	576	5.94	602	6.63	629	7.37	680	8.97	729	10.80						
	18450	1960	557	5.35	579	6.07	602	6.84	624	7.56	648	8.32	697	9.92	744	11.70	788	13.70	833	15.70		
	19950	2120	587	6.20	609	7.02	630	7.83	650	8.61	671	9.41	716	11.10	761	12.90	804	14.80	845	16.90	886	19.10
	21450	2279	617	7.12	639	8.04	659	8.91	678	9.76	697	10.60	737	12.40	779	14.20	821	16.10	861	18.20	899	20.40
	22950	2439	649	8.19	669	9.14	689	10.10	707	11.00	726	12.00	761	13.80	799	15.70	838	17.60	878	19.70	915	21.90
	24450	2598	681	9.36	700	10.40	719	11.40	737	12.40	755	13.40	788	15.30	822	17.30	858	19.30	895	21.40	932	23.60
	25950	2757	714	10.70	732	11.70	750	12.80	767	13.90	784	14.90	817	17.10	848	19.10	881	21.30	915	23.40		
	27450	2917	748	12.10	764	13.20	781	14.30	798	15.50	814	16.60	846	18.90	876	21.10	906	23.30				
	28950	3076	781	13.70	797	14.80	813	16.00	829	17.20	845	18.40	876	20.80	905	23.20	933	25.50				
	30450	3236	816	15.50	831	16.70	845	17.80	861	19.10	876	20.40	906	22.90	934	25.40						
	31950	3395	850	17.30	864	18.60	878	19.80	893	21.10	907	22.40	936	25.10								
	33450	3555	885	19.40	898	20.70	912	22.00	925	23.30												

Continued on next page

Performance certified is for installation type B – free inlet, ducted outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances (accessories).

CPV, CPS, CPA, CPS-A & CPA-A Size 402 Performance Data

	CFM	OV	1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP		5.000 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CPS-A & CPA-A (Airfoil)	6450	685	413	1.44																				
	7950	844	423	1.68	466	2.15	506	2.66																
	9450	1004	430	1.92	476	2.46	516	3.01	552	3.58	586	4.18												
	10950	1163	444	2.23	484	2.79	524	3.38	562	4.00	596	4.64	658	6.00										
	12450	1323	464	2.60	499	3.17	534	3.80	569	4.44	604	5.13	668	6.57	723	8.06	775	9.66						
	13950	1482	484	3.06	520	3.66	551	4.29	581	4.95	612	5.66	676	7.20	734	8.80	785	10.50	832	12.20	878	14.00		
	15450	1642	504	3.58	539	4.21	571	4.86	600	5.56	628	6.30	684	7.86	741	9.53	794	11.30	843	13.10	887	15.00	930	16.90
	16950	1801	528	4.19	559	4.85	591	5.56	621	6.28	648	7.03	698	8.62	749	10.30	802	12.20	852	14.10	898	16.10	940	18.10
	18450	1960	554	4.85	582	5.59	611	6.33	640	7.08	668	7.86	717	9.48	763	11.20	810	13.10	858	15.10	905	17.10	950	19.30
	19950	2120	582	5.61	608	6.41	633	7.18	660	7.98	687	8.79	738	10.50	782	12.30	825	14.20	868	16.20	913	18.40	957	20.50
	21450	2279	611	6.45	635	7.30	658	8.12	683	9.010	708	9.86	757	11.60	803	13.50	844	15.40	883	17.40	923	19.60	964	21.80
	22950	2439	640	7.35	663	8.27	685	9.17	707	10.10	730	11.00	777	12.80	823	14.80	864	16.70	902	18.80	939	21.00		
	24450	2598	670	8.36	692	9.35	713	10.30	734	11.30	755	12.30	798	14.20	842	16.20	884	18.20	923	20.40	958	22.60		
	25950	2757	701	9.49	722	10.50	742	11.60	762	12.60	781	13.60	821	15.70	862	17.70	904	19.90	943	22.10				
	27450	2917	732	10.70	752	11.80	771	12.90	790	14.00	809	15.10	846	17.30	884	19.40	923	21.60	962	23.90				
	28950	3076	764	12.10	782	13.20	801	14.40	819	15.50	837	16.70	872	18.90	908	21.30	944	23.50						
	30450	3236	796	13.60	813	14.70	831	15.90	849	17.20	866	18.40	900	20.80	933	23.20								
	31950	3395	828	15.20	845	16.40	862	17.60	879	18.90	895	20.10	928	22.70	960	25.30								
	33450	3555	861	16.90	877	18.20	893	19.50	909	20.80	925	22.10	957	24.80										
	34950	3714	894	18.80	909	20.10	924	21.40	940	22.80	955	24.20												
	36450	3873	928	21.00	942	22.30	957	23.60																

Performance certified for installation type B – free inlet, ducted outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances (accessories).

Performance Data CPV, CPS, CPA, CPS-A & CPA-A Size 445

Wheel Diameter: 44.5"

Tip Speed (FPM) = 11.65 x RPM

Inlet Area: 11.86 Sq. Ft.

Outlet Area: 11.50 Sq. Ft.

Outlet Velocity (FPM) = CFM/11.50

CPV Max. RPM

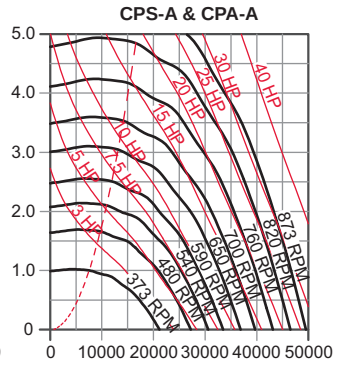
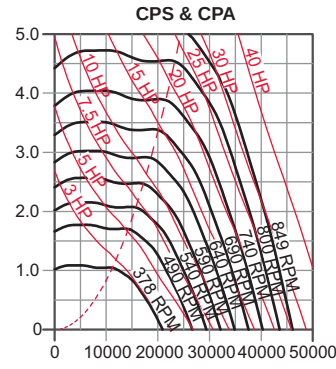
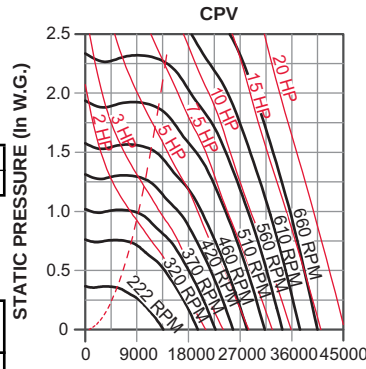
Standard wheel	463
Reinforced wheel	660

CPS & CPA Max. RPM: 849

CPS-A & CPA-A Max. RPM: 873

Max. BHP = following factor x (RPM/1000)³

CPV	CPS CPA	CPS-A CPA-A
55.3	52.0	47.2



In the charts above, do not select to left of dotted curve.

Shaded area indicates reinforced wheel required

	CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CPV (Flat blade)	9400	817	222	.58	281	1.08	329	1.65	373	2.27												
	10800	939	238	.74	292	1.26	339	1.87	379	2.52	418	3.23										
	12200	1061	255	.92	303	1.46	350	2.12	389	2.82	425	3.56	459	4.33								
	13600	1183	272	1.11	317	1.71	360	2.38	400	3.14	435	3.93	467	4.75	498	5.60	528	6.49				
	15000	1304	291	1.36	333	2.02	372	2.70	410	3.47	446	4.34	477	5.20	507	6.12	535	7.03	563	8.01	590	9.00
	16400	1426	310	1.63	350	2.37	386	3.08	421	3.85	456	4.74	488	5.68	517	6.63	544	7.60	570	8.59	596	9.64
	17800	1548	329	1.94	367	2.74	401	3.51	434	4.31	466	5.18	499	6.20	528	7.20	555	8.24	580	9.27	605	10.40
	19200	1670	349	2.30	385	3.16	418	4.02	448	4.83	478	5.71	509	6.72	538	7.77	566	8.89	591	9.98	615	11.10
	20600	1791	370	2.72	403	3.61	434	4.52	464	5.44	492	6.34	520	7.31	548	8.37	576	9.54	602	10.70	626	11.90
	22000	1913	391	3.19	422	4.13	452	5.11	480	6.08	507	7.04	533	8.01	559	9.05	586	10.20	612	11.50	637	12.80
	23400	2035	412	3.71	441	4.69	470	5.74	497	6.78	523	7.81	548	8.83	572	9.86	597	11.00	622	12.20	647	13.60
	24800	2157	433	4.29	461	5.33	488	6.41	514	7.52	539	8.61	563	9.69	586	10.80	610	11.90	633	13.10	657	14.50
	26200	2279	454	4.92	480	5.99	507	7.17	532	8.33	556	9.49	579	10.60	602	11.80	624	12.90	646	14.20		
	27600	2400	476	5.64	501	6.78	526	7.98	550	9.20	573	10.40	596	11.70	618	12.90	638	14.00	659	15.20		
	29000	2522	498	6.44	521	7.59	545	8.84	568	10.10	591	11.40	613	12.70	634	14.00	654	15.20				
	30400	2644	519	7.27	542	8.51	564	9.76	587	11.10	609	12.50	630	13.80	651	15.20						
	31800	2766	541	8.21	563	9.50	584	10.80	606	12.20	627	13.60	648	15.10								
	33200	2888	563	9.23	584	10.60	604	11.90	625	13.30	646	14.80										
	34600	3009	585	10.30	605	11.70	625	13.10	645	14.60												
	36000	3131	607	11.50	626	12.90	645	14.40														
	37400	3253	629	12.80	648	14.30																

	CFM	OV	1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP		5.000 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CPS & CPA (Flat blade)	11500	1000	378	2.45																				
	13300	1156	391	2.83	425	3.53																		
	15100	1313	406	3.32	439	4.03	469	4.80	499	5.63														
	16900	1470	425	3.94	454	4.64	484	5.43	511	6.26	538	7.18												
	18700	1626	448	4.66	473	5.42	499	6.19	526	7.03	552	7.96	600	9.92										
	20500	1783	473	5.47	495	6.28	518	7.12	542	7.97	567	8.89	613	10.80	657	13.00								
	22300	1939	500	6.41	520	7.28	541	8.20	562	9.11	583	9.99	628	12.00	671	14.20	711	16.60						
	24100	2096	526	7.39	546	8.37	566	9.39	584	10.30	603	11.30	644	13.30	686	15.50	724	17.80	762	20.5	800	23.10		
	25900	2253	554	8.54	573	9.60	591	10.60	609	11.70	626	12.70	663	14.90	701	17.00	739	19.30	776	22.00	811	24.70	845	27.50
	27700	2409	581	9.74	600	10.90	618	12.10	635	13.20	651	14.30	684	16.50	719	18.80	755	21.20	791	23.70	825	26.50		
	29500	2566	610	11.10	627	12.30	644	13.60	661	14.80	677	16.00	708	18.40	739	20.80	772	23.20	806	25.70	840	28.50		
	31300	2722	639	12.70	655	13.90	672	15.30	688	16.60	703	17.80	733	20.40	762	22.90	791	25.40	823	28.00				
	33100	2879	669	14.40	684	15.70	699	17.00	715	18.50	730	19.80	759	22.60	786	25.20	813	27.80	842	30.50				
	34900	3035	698	16.20	713	17.60	728	19.10	742	20.50	757	21.90	785	24.80	811	27.60	837	30.40						
	36700	3192	729	18.30	743	19.70	756	21.20	770	22.70	784	24.20	811	27.20	837	30.20								
	38500	3349	760	20.50	772	22.00	785	23.50	799	25.10	812	26.70	838	29.80										
	40300	3505	790	22.90	803	24.50	815	26.10	827	27.60	840	29.30												
	42100	3662	822	25.60	833	27.20	845	28.80																

Continued on next page

Performance certified is for installation type B – free inlet, ducted outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances (accessories).

CPV, CPS, CPA, CPS-A & CPA-A Size 445 Performance Data

	CFM	OV	1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP		5.000 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CPS-A & CPA-A (Airfoil)	7900	687	373	1.76																				
	9700	843	382	2.04	422	2.64	457	3.24																
	11500	1000	389	2.35	430	2.99	466	3.66	499	4.37	530	5.11												
	13300	1156	401	2.71	437	3.38	473	4.09	508	4.87	539	5.66	594	7.28										
	15100	1313	419	3.16	450	3.84	482	4.61	514	5.40	546	6.24	603	7.97	653	9.80	700	11.70						
	16900	1470	436	3.69	468	4.41	497	5.19	524	5.99	553	6.87	610	8.70	662	10.60	709	12.70	752	14.80	793	17.00		
	18700	1626	454	4.31	486	5.09	515	5.89	541	6.73	566	7.61	617	9.50	669	11.50	718	13.70	761	15.90	801	18.20	840	20.60
	20500	1783	475	5.03	503	5.83	532	6.68	559	7.56	583	8.45	629	10.40	676	12.50	724	14.80	769	17.10	810	19.40	849	21.90
	22300	1939	498	5.83	523	6.70	550	7.61	576	8.50	602	9.49	646	11.40	688	13.60	731	15.90	775	18.30	818	20.80	857	23.30
	24100	2096	522	6.70	546	7.68	569	8.60	594	9.58	619	10.60	664	12.60	704	14.80	743	17.10	783	19.60	824	22.20	864	24.80
	25900	2253	548	7.70	570	8.74	591	9.72	614	10.80	637	11.80	682	14.00	723	16.20	760	18.60	796	21.10	833	23.70	870	26.40
	27700	2409	574	8.78	595	9.90	615	11.00	635	12.10	656	13.20	699	15.40	740	17.70	778	20.20	812	22.70	846	25.40		
	29500	2566	600	9.95	620	11.10	640	12.30	659	13.50	678	14.70	717	17.00	758	19.40	796	21.90	830	24.50	863	27.20		
	31300	2722	627	11.30	646	12.50	665	13.80	683	15.00	701	16.30	737	18.70	775	21.20	813	23.80	848	26.50				
	33100	2879	655	12.70	673	14.00	691	15.40	708	16.70	725	18.00	759	20.60	794	23.20	830	25.90	866	28.70				
	34900	3035	683	14.30	700	15.70	717	17.10	734	18.50	750	19.80	782	22.60	815	25.40	849	28.20						
	36700	3192	712	16.10	727	17.40	744	18.90	760	20.40	776	21.90	807	24.80	837	27.60	869	30.60						
	38500	3349	740	17.90	756	19.40	771	20.90	786	22.40	802	24.00	831	27.00	861	30.10								
	40300	3505	769	20.00	784	21.50	798	23.00	813	24.60	828	26.30	857	29.50										
	42100	3662	798	22.20	812	23.80	826	25.40	841	27.10	855	28.70												
	43900	3818	828	24.70	841	26.20	855	27.90	868	29.60														

Performance certified is for installation type B – free inlet, ducted outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances (accessories).

Performance Data CPV, CPS, CPA, CPS-A & CPA-A Size 490

Wheel Diameter: 49"

Tip Speed (FPM) = 12.83 x RPM

Inlet Area: 14.42 Sq. Ft.

Outlet Area: 13.94 Sq. Ft.

Outlet Velocity (FPM) = CFM/13.94

CPV Max. RPM

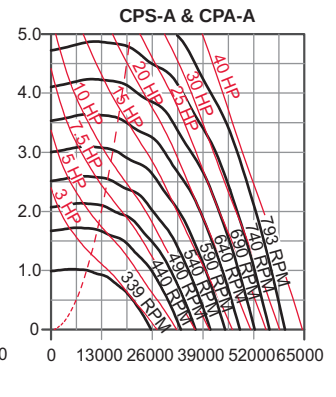
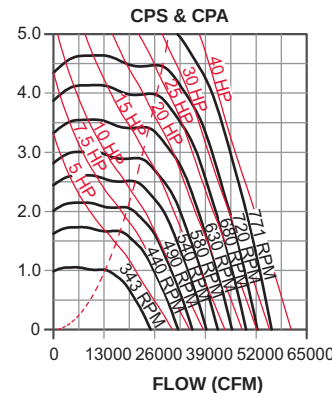
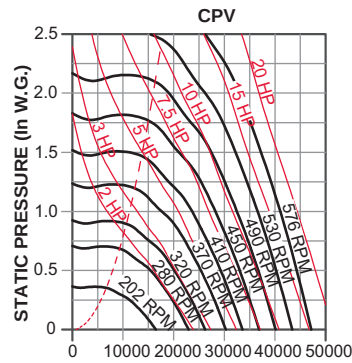
Standard wheel	360
Reinforced wheel	576

CPS & CPA Max. RPM: 771

CPS-A & CPA-A Max. RPM: 793

Max. BHP = following factor x (RPM/1000)³

CPV	CPS CPA	CPS-A CPA-A
89.6	84.3	76.4



In the charts above, do not select to left of dotted curve.

Shaded area indicates reinforced wheel required

	CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CPV (Flat blade)	11400	817	202	.71	256	1.33	299	2.00	338	2.73												
	13000	932	215	.88	264	1.50	307	2.25	344	3.04	379	3.88										
	14600	1047	229	1.08	274	1.74	317	2.54	353	3.39	385	4.26	416	5.19								
	16200	1161	244	1.30	286	2.03	325	2.82	362	3.75	393	4.68	423	5.68	451	6.69	479	7.78				
	17800	1276	260	1.57	299	2.36	335	3.17	371	4.14	403	5.15	431	6.17	458	7.25	484	8.36	510	9.55		
	19400	1391	276	1.87	313	2.74	346	3.57	379	4.52	412	5.63	441	6.75	467	7.87	492	9.04	516	10.20	539	11.40
	21000	1506	293	2.22	328	3.16	359	4.06	390	5.03	420	6.09	450	7.31	476	8.49	501	9.74	524	11.00	546	12.20
	22600	1621	310	2.61	343	3.62	373	4.60	401	5.57	430	6.67	458	7.86	485	9.14	510	10.50	533	11.80	555	13.10
	24200	1735	327	3.05	358	4.10	387	5.18	415	6.26	441	7.33	467	8.49	494	9.84	519	11.20	542	12.60	564	14.00
	25800	1850	345	3.56	374	4.66	402	5.82	428	6.94	453	8.07	478	9.27	503	10.60	527	11.90	551	13.40	573	14.90
	27400	1965	363	4.12	390	5.26	417	6.50	442	7.70	466	8.89	490	10.10	513	11.40	536	12.80	560	14.30		
	29000	2080	381	4.74	407	5.96	433	7.26	457	8.54	480	9.80	502	11.00	524	12.30	546	13.70	569	15.30		
	30600	2194	399	5.42	424	6.71	448	8.03	472	9.42	494	10.80	516	12.10	537	13.40	557	14.80				
	32200	2309	417	6.16	441	7.51	464	8.89	487	10.30	509	11.80	530	13.20	550	14.60	570	16.00				
	33800	2424	436	7.02	458	8.38	481	9.87	503	11.40	524	12.90	544	14.40	564	15.90						
	35400	2539	455	7.95	476	9.37	497	10.90	518	12.40	539	14.00	559	15.60								
	37000	2653	473	8.90	493	10.40	514	12.00	534	13.60	554	15.20	574	16.90								
	38600	2768	492	9.99	512	11.60	531	13.10	551	14.80	570	16.50										
	40200	2883	511	11.20	530	12.80	548	14.40	567	16.10												
	41800	2998	530	12.40	548	14.10	566	15.80														
	43400	3112	549	13.80	566	15.50																

	CFM	OV	1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP		5.000 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CPS & CPA (Flat blade)	13950	1000	343	2.97																				
	16150	1158	355	3.43	386	4.29																		
	18350	1316	369	4.03	399	4.89	426	5.82	453	6.82														
	20550	1474	386	4.78	413	5.66	440	6.61	465	7.64	489	8.73												
	22750	1631	408	5.70	430	6.60	454	7.55	478	8.54	501	9.63	545	12.00										
	24950	1789	431	6.69	451	7.69	471	8.67	493	9.72	515	10.80	558	13.20	598	15.90								
	27150	1947	455	7.81	474	8.92	492	9.98	511	11.10	531	12.20	571	14.60	610	17.30	646	20.10						
	29350	2105	480	9.08	498	10.30	515	11.40	532	12.60	549	13.80	586	16.20	624	18.90	659	21.80	693	24.90	727	28.10		
	31550	2263	504	10.40	522	11.70	539	13.10	555	14.30	570	15.50	603	18.10	638	20.80	673	23.70	705	26.70	737	30.10	768	33.50
	33750	2420	530	12.00	547	13.40	563	14.80	578	16.10	593	17.50	623	20.20	654	23.00	687	25.90	719	28.90	750	32.20		
	35950	2578	556	13.60	572	15.10	587	16.60	602	18.10	617	19.60	645	22.50	673	25.40	702	28.30	733	31.40	764	34.70		
	38150	2736	583	15.60	597	17.00	612	18.60	627	20.30	641	21.80	668	25.00	694	28.00	721	31.10	749	34.20				
	40350	2894	610	17.60	624	19.30	638	20.90	652	22.60	665	24.20	691	27.50	716	30.80	741	34.10	767	37.40				
	42550	3052	637	19.90	650	21.60	664	23.40	677	25.10	690	26.90	715	30.30	739	33.80	763	37.30						
	44750	3209	665	22.40	678	24.30	690	26.00	702	27.80	715	29.70	740	33.40	763	37.00								
	46950	3367	693	25.20	705	27.00	716	28.80	728	30.70	740	32.60	764	36.50										
	49150	3525	721	28.10	733	30.10	744	32.00	755	34.00	766	35.90												

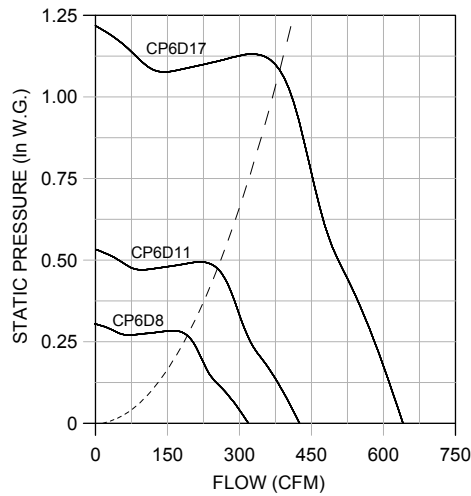
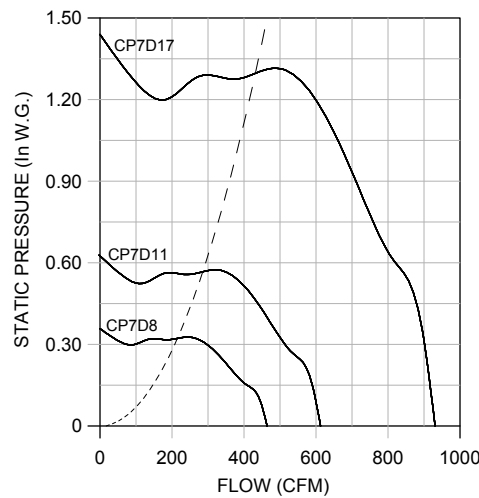
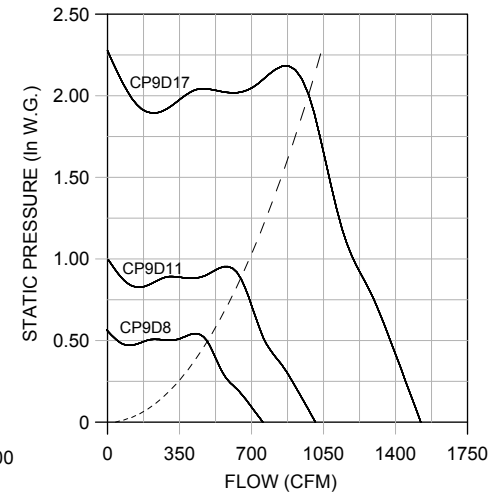
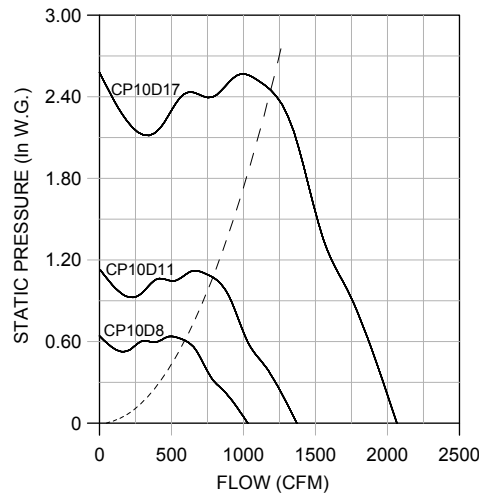
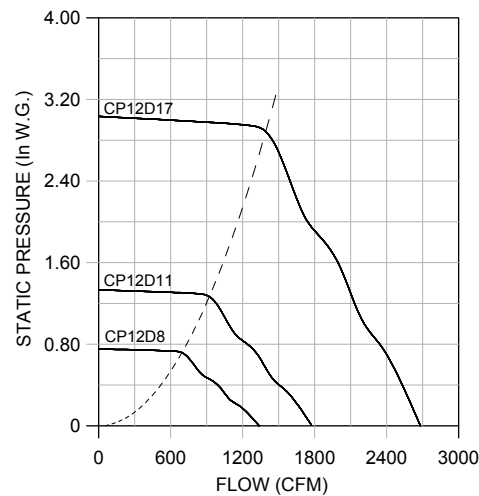
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Performance certified is for installation type B – free inlet, ducted outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances (accessories).

CPV, CPS, CPA, CPS-A & CPA-A Size 490 Performance Data

	CFM	OV	1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP		5.000 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
CPS-A & CPA-A (Airfoil)	9550	685	339	2.14																				
	11750	842	347	2.47	383	3.19	415	3.93																
	13950	1000	353	2.84	391	3.64	424	4.46	453	5.29	481	6.18												
	16150	1158	364	3.28	397	4.11	430	4.98	461	5.90	489	6.84	540	8.86										
	18350	1316	381	3.85	409	4.67	438	5.60	467	6.56	496	7.58	548	9.69	594	11.9	636	14.30						
	20550	1474	397	4.51	426	5.38	452	6.32	477	7.32	503	8.38	555	10.60	602	13.00	644	15.40	683	18.00	720	20.60		
	22750	1631	413	5.26	442	6.20	468	7.15	492	8.19	515	9.28	561	11.60	608	14.00	652	16.60	692	19.40	728	22.10	763	25.00
	24950	1789	432	6.13	458	7.13	484	8.15	509	9.24	531	10.30	572	12.70	615	15.30	658	18.00	699	20.80	736	23.60	771	26.60
	27150	1947	453	7.10	476	8.17	500	9.26	524	10.40	547	11.50	588	14.00	626	16.60	665	19.30	704	22.20	743	25.30	779	28.40
	29350	2105	476	8.21	497	9.37	518	10.50	541	11.70	563	12.90	604	15.40	641	18.10	676	20.90	712	23.90	749	27.00	785	30.20
	31550	2263	499	9.41	519	10.70	538	11.90	559	13.20	579	14.40	620	17.00	657	19.70	691	22.60	724	25.70	757	28.80	791	32.10s
	33750	2420	523	10.70	542	12.10	560	13.40	579	14.80	597	16.10	636	18.80	674	21.70	708	24.60	739	27.70	769	30.80		
	35950	2578	547	12.20	565	13.60	583	15.10	600	16.50	617	17.90	653	20.80	690	23.80	724	26.70	756	29.90	785	33.20		
	38150	2736	572	13.80	589	15.30	606	16.90	622	18.30	639	19.90	671	22.90	706	26.00	740	29.10	772	32.30				
	40350	2894	597	15.60	614	17.20	630	18.80	645	20.40	661	22.00	692	25.20	723	28.40	756	31.70	788	35.00				
	42550	3052	623	17.50	639	19.30	654	20.90	669	22.60	684	24.30	713	27.70	742	31.00	773	34.50						
	44750	3209	649	19.70	664	21.50	678	23.20	693	25.00	707	26.70	735	30.30	763	33.90	791	37.40						
	46950	3367	675	22.00	689	23.80	703	25.60	717	27.50	731	29.40	758	33.10	784	36.80								
	49150	3525	702	24.60	715	26.40	729	28.40	742	30.30	755	32.20	781	36.10										
	51350	3683	729	27.40	741	29.20	754	31.20	767	33.20	780	35.30												
	53550	3841	756	30.40	768	32.30	780	34.30	792	36.30														

Performance certified is for installation type B – free inlet, ducted outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances (accessories).

CP6D8, CP6D11, CP6D17

CP7D8, CP7D11, CP7D17

CP9D8, CP9D11, CP9D17

CP10D8, CP10D11, CP10D17

CP12D8, CP12D11, CP12D17


CPFD (Forward Curve)	Catalog Number	Mtr. HP	RPM	Max. BHP	CFM vs. Static Pressure										
					0.125 SP	0.250 SP	0.375 SP	0.500 SP	0.625 SP	0.750 SP	1.000 SP	1.250 SP	1.500 SP	1.750 SP	2.000 SP
	CP6D8	0.125	860	0.03	252	203									
	CP6D11	0.167	1140	0.08	378	321	288								
	CP6D17	0.334	1725	0.3	612	582	546	506	475	453	409				
	CP7D8	0.125	860	0.06	432	337									
	CP7D11	0.167	1140	0.14	597	554	479	413							
	CP7D17	0.500	1725	0.51	920	907	892	868	807	759	678	570			
	CP9D8	0.167	860	0.15	685	595	537								
	CP9D11	0.500	1140	0.36	951	894	828	760	721	686					
	CP9D17	1.500	1725	1.31	1486	1449	1412	1375	1336	1295	1195	1126	1078	1033	
	CP10D8	0.250	860	0.22	949	852	753	692							
	CP10D11	0.750	1140	0.55	1305	1243	1173	1082	1012	964	855				
	CP10D17	2.000	1725	1.97	2026	1987	1946	1905	1862	1817	1712	1591	1512	1451	1390
	CP12D8	0.500	860	0.35	1241	1102	1012	865	777						
	CP12D11	1.000	1140	0.85	1702	1625	1522	1422	1360	1280	1077	932			
CP12D17	3.000	1725	3.02	2635	2589	2541	2490	2436	2373	2213	2116	2033	1917	1742	

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CPFB Size 100- 120 Performance Data

Size 100

Wheel Diameter: 10"

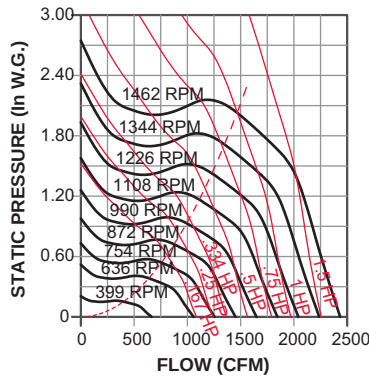
Tip Speed (FPM) = 2.62 x RPM

Inlet Area: .75 Sq. Ft.

Outlet Area: .57 Sq. Ft.

Outlet Velocity (FPM) = CFM/.57

Max. RPM: 1462



Size 120

Wheel Diameter: 12"

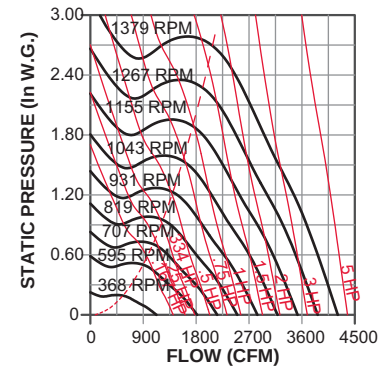
Tip Speed (FPM) = 3.21 x RPM

Inlet Area: .98 Sq. Ft.

Outlet Area: .84 Sq. Ft.

Outlet Velocity (FPM) = CFM/.84

Max. RPM: 1379



	CFM	OV	0.125 SP		0.250 SP		0.375 SP		0.500 SP		0.625 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP	
			RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM		RPM	
			BHP		BHP		BHP		BHP		BHP		BHP		BHP		BHP		BHP		BHP		BHP	
Size 100 (Forward curved blade)	500	870	399	.03																				
	600	1044	435	.04	535	.06																		
	700	1218	485	.06	562	.07	646	.09																
	800	1392	539	.08	595	.10	672	.12	744	.14														
	900	1566	595	.11	640	.13	701	.15	770	.17	833	.20	891	.23										
	1000	1740	651	.15	692	.17	737	.19	798	.21	859	.24	916	.27										
	1100	1915	708	.20	746	.22	783	.24	830	.26	887	.29	942	.32	1044	.38								
	1200	2089	765	.25	801	.27	834	.29	871	.32	917	.34	970	.38	1069	.44	1159	.52						
	1300	2263	822	.32	857	.34	887	.36	919	.38	955	.41	1000	.44	1096	.51	1185	.59	1266	.67				
	1400	2437	879	.39	913	.42	942	.44	970	.46	1001	.49	1036	.52	1125	.59	1211	.67	1292	.75	1367	.84		
Size 120 (Forward curved blade)	1500	2611	937	.47	969	.50	997	.53	1024	.55	1051	.58	1080	.61	1155	.68	1239	.76	1318	.85	1392	.94	1462	1.02
	1600	2785	996	.57	1026	.60	1054	.63	1078	.66	1104	.69	1129	.71	1190	.78	1267	.86	1345	.95	1418	1.05		
	800	955	368	.05	446	.07	517	.09																
	1000	1194	416	.08	490	.11	550	.13	607	.16														
	1200	1433	467	.13	537	.17	594	.20	644	.22	693	.25	740	.28										
	1400	1671	522	.20	585	.23	641	.27	689	.31	733	.34	775	.37	857	.44								
	1600	1910	580	.28	634	.32	689	.37	737	.41	779	.45	818	.49	891	.56	963	.64	1035	.73				
	1800	2149	640	.39	688	.43	737	.48	784	.53	826	.58	864	.63	934	.71	999	.80	1063	.88	1126	.98		
	2000	2388	701	.52	744	.57	787	.62	832	.68	874	.74	912	.79	979	.89	1041	.98	1100	1.08	1158	1.17	1215	1.27
	2200	2627	763	.69	802	.74	841	.79	881	.85	921	.91	959	.98	1027	1.09	1086	1.20	1142	1.30	1196	1.40	1249	1.51
	2400	2866	825	.88	861	.94	897	.99	933	1.05	970	1.12	1007	1.19	1074	1.32	1134	1.45	1188	1.56	1239	1.68	1289	1.79
	2600	3104	888	1.11	922	1.17	955	1.23	988	1.30	1021	1.36	1055	1.43	1122	1.58	1181	1.72	1235	1.86	1285	1.98	1332	2.10
	2800	3343	951	1.38	983	1.44	1013	1.51	1044	1.57	1075	1.64	1106	1.72	1170	1.88	1229	2.03	1283	2.19	1332	2.33	1378	2.46
	3000	3582	1014	1.68	1044	1.75	1073	1.82	1102	1.89	1130	1.96	1159	2.04	1218	2.20	1277	2.38	1331	2.55	1379	2.70		

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Size 150

Wheel Diameter: 15"

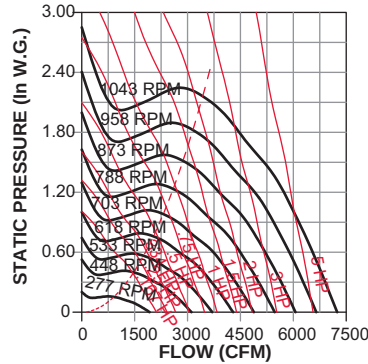
Tip Speed (FPM) = 3.93 x RPM

Inlet Area: 1.25 Sq. Ft.

Outlet Area: 1.31 Sq. Ft.

Outlet Velocity (FPM) = CFM/1.31

Max. RPM: 1043



Size 180

Wheel Diameter: 18"

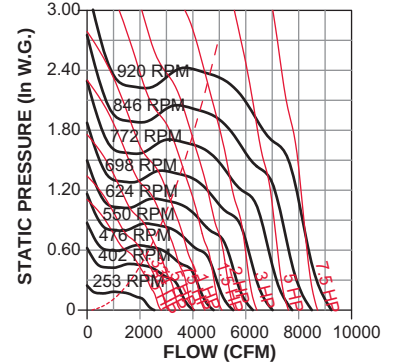
Tip Speed (FPM) = 4.71 x RPM

Inlet Area: 2.10 Sq. Ft.

Outlet Area: 1.88 Sq. Ft.

Outlet Velocity (FPM) = CFM/1.88

Max. RPM: 920



	CFM	OV	0.125 SP		0.250 SP		0.375 SP		0.500 SP		0.625 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
Size 150 (Forward curved blade)	1200	919	277	.06	356	.09																		
	1400	1072	293	.08	368	.12																		
	1600	1225	311	.11	383	.15	443	.19																
	1800	1378	331	.14	400	.19	457	.23	509	.28														
	2000	1531	354	.19	417	.24	473	.29	522	.34	569	.39												
	2200	1685	377	.24	434	.29	490	.35	537	.40	581	.45	623	.51										
	2400	1838	402	.30	453	.35	506	.42	554	.48	595	.53	635	.59	713	.72								
	2600	1991	427	.37	474	.43	523	.49	571	.57	612	.63	650	.69	723	.82								
	2800	2144	452	.45	497	.52	541	.58	587	.66	629	.73	666	.80	736	.93	803	1.08						
	3000	2297	478	.54	520	.62	561	.68	604	.76	646	.85	683	.92	750	1.05	814	1.21	876	1.37				
	3200	2450	504	.65	544	.73	583	.80	621	.87	662	.96	700	1.05	766	1.20	827	1.35	887	1.52	944	1.70		
	3400	2604	530	.77	569	.85	605	.93	641	1.01	679	1.09	717	1.19	784	1.36	842	1.51	899	1.68	955	1.87	1008	2.05
Size 180 (Forward curved blade)	3600	2757	557	.90	594	.99	629	1.08	662	1.15	697	1.24	733	1.34	801	1.54	859	1.70	913	1.86	966	2.04	1018	2.24
	3800	2910	584	1.05	618	1.13	652	1.23	685	1.32	717	1.41	750	1.50	817	1.71	876	1.90	929	2.07	980	2.25	1030	2.45
	4000	3063	611	1.22	644	1.30	677	1.41	708	1.51	738	1.59	769	1.68	833	1.90	893	2.12	946	2.31	995	2.48	1043	2.67
	2000	1064	253	.13	315	.18	369	.23																
	2300	1223	274	.18	332	.24	378	.29	426	.35														
	2600	1383	301	.25	349	.31	393	.36	435	.43	477	.49												
	2900	1542	330	.34	362	.39	411	.46	448	.52	486	.59	524	.67										
	3200	1702	359	.44	383	.49	428	.57	466	.64	499	.71	533	.79	602	.96								
Size 180 (Forward curved blade)	3500	1861	388	.57	410	.62	440	.69	484	.78	516	.85	547	.93	609	1.11	671	1.29						
	3800	2021	418	.72	438	.77	459	.83	499	.93	535	1.03	563	1.10	620	1.28	677	1.47	735	1.68				
	4100	2180	447	.89	466	.95	485	1.01	512	1.10	552	1.22	582	1.30	634	1.47	687	1.67	740	1.88				
	4400	2340	477	1.09	495	1.15	512	1.22	531	1.29	564	1.40	599	1.52	651	1.71	700	1.91	749	2.12	799	2.35	848	2.58
	4700	2500	506	1.31	525	1.39	540	1.45	557	1.53	579	1.62	613	1.75	670	1.98	715	2.17	761	2.39	807	2.62	854	2.87
	5000	2659	535	1.57	554	1.65	569	1.73	584	1.80	600	1.87	625	1.99	688	2.27	733	2.47	776	2.69	819	2.93	862	3.18
	5300	2819	565	1.86	583	1.94	598	2.03	612	2.10	626	2.18	644	2.28	703	2.57	751	2.81	792	3.03	833	3.27	873	3.52
	5600	2978	594	2.17	613	2.28	627	2.36	640	2.44	654	2.53	668	2.61	715	2.88	769	3.17	811	3.42	849	3.65	887	3.90
Size 180 (Forward curved blade)	5900	3138	623	2.53	643	2.65	657	2.74	669	2.82	682	2.91	694	2.99	729	3.22	785	3.56	829	3.83	866	4.07	902	4.32
	6200	3298	652	2.91	672	3.05	686	3.14	698	3.23	710	3.32	722	3.41	750	3.62	797	3.95	846	4.27	885	4.55	920	4.80

Performance certified is for installation type B – free inlet, ducted outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances (accessories).

CPFB Size 220 & 250 Performance Data

Size 220

Wheel Diameter: 22"

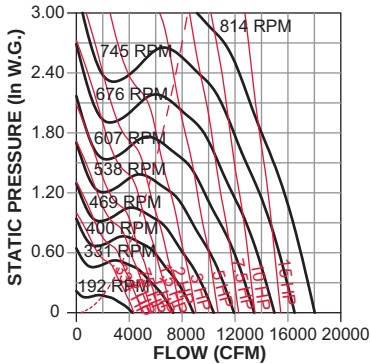
Tip Speed (FPM) = 5.76 x RPM

Inlet Area: 3.04 Sq. Ft.

Outlet Area: 2.94 Sq. Ft.

Outlet Velocity (FPM) = CFM/2.94

Max. RPM: 814



Size 250

Wheel Diameter: 25"

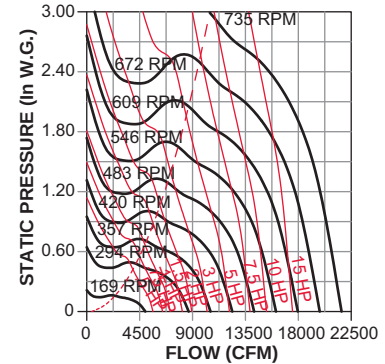
Tip Speed (FPM) = 6.54 x RPM

Inlet Area: 3.87 Sq. Ft.

Outlet Area: 3.49 Sq. Ft.

Outlet Velocity (FPM) = CFM/3.49

Max. RPM: 735



	CFM	OV	0.125 SP		0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
Size 220 (Forward curved blade)	3000	1021	192	.17	241	.25																		
	3600	1224	212	.27	252	.34	330	.53																
	4200	1428	231	.38	270	.48	340	.69																
	4800	1633	252	.54	290	.66	350	.87	411	1.13														
	5400	1837	275	.74	309	.86	365	1.10	420	1.38	472	1.67												
	6000	2041	299	.99	329	1.11	384	1.40	431	1.66	482	2.00	527	2.31										
	6600	2245	323	1.28	350	1.41	403	1.73	447	2.02	491	2.34	537	2.71	578	3.06	616	3.39						
	7200	2449	348	1.64	372	1.78	423	2.12	465	2.44	504	2.76	546	3.13	588	3.54	625	3.91	661	4.29				
	7800	2653	374	2.08	396	2.22	443	2.57	485	2.94	521	3.27	558	3.63	597	4.05	635	4.48	670	4.89	703	5.29		
	8400	2857	399	2.56	419	2.71	463	3.08	505	3.50	540	3.86	573	4.21	608	4.62	644	5.06	680	5.54	713	5.99	744	6.42
	9000	3062	425	3.12	444	3.30	483	3.64	524	4.09	559	4.50	591	4.89	622	5.28	655	5.73	689	6.21	723	6.74	754	7.21
	9600	3266	451	3.77	469	3.96	505	4.31	544	4.78	579	5.23	610	5.65	639	6.05	669	6.50	700	6.97	732	7.50	763	8.02
Size 250 (Forward curved blade)	10200	3470	477	4.49	493	4.68	527	5.06	564	5.53	599	6.04	630	6.51	658	6.94	686	7.39	713	7.82	743	8.35	773	8.90
	10800	3674	504	5.33	519	5.52	551	5.93	584	6.36	619	6.92	650	7.44	678	7.92	704	8.36	730	8.83	756	9.31	784	9.86
	11400	3878	530	6.24	544	6.43	574	6.86	605	7.30	638	7.84	670	8.45	698	8.98	723	9.44	748	9.93	772	10.40	797	10.90
	12000	4082	556	7.24	570	7.47	598	7.91	627	8.35	658	8.89	689	9.50	717	10.10	743	10.60	767	11.10	790	11.60	814	12.20
	3600	1031	169	.21	221	.31																		
	4400	1260	184	.31	229	.43																		
	5200	1489	203	.47	240	.60	314	.89																
	6000	1718	225	.69	255	.81	322	1.15	379	1.48														
	6800	1947	249	.97	273	1.09	331	1.45	389	1.83	436	2.21												
	7600	2176	274	1.33	293	1.44	344	1.82	397	2.24	446	2.66	487	3.08										
	8400	2406	300	1.77	316	1.89	359	2.26	407	2.72	454	3.18	498	3.65	535	4.12	568	4.58						
	9200	2635	326	2.31	340	2.43	376	2.77	419	3.26	463	3.77	506	4.28	546	4.82	579	5.30	610	5.80				
	10000	2864	352	2.93	364	3.05	395	3.39	434	3.90	474	4.44	514	4.99	554	5.56	590	6.12	622	6.68	651	7.23	678	7.75
	10800	3093	378	3.67	389	3.80	416	4.14	450	4.61	487	5.20	524	5.78	562	6.41	598	7.00	632	7.61	662	8.20	690	8.81
	11600	3322	405	4.54	415	4.67	438	5.00	468	5.45	502	6.05	536	6.67	571	7.32	606	7.97	640	8.63	672	9.29	701	9.93
	12400	3551	431	5.50	441	5.68	462	6.01	488	6.45	518	7.00	550	7.67	583	8.37	616	9.08	648	9.75	680	10.50	710	11.10
	13200	3780	458	6.62	467	6.79	486	7.14	509	7.57	536	8.11	566	8.80	596	9.51	627	10.30	657	11.00	688	11.70	718	12.50
	14000	4010	484	7.85	493	8.05	511	8.43	531	8.84	555	9.36	582	10.00	611	10.80	639	11.50	668	12.30	697	13.10	726	13.90
	14800	4239	511	9.28	519	9.46	536	9.86	554	10.30	576	10.80	600	11.40	627	12.20	653	12.90	681	13.80	708	14.60	735	15.40
	15600	4468	537	10.80	545	11.00	561	11.40	578	11.90	597	12.40	620	13.00	644	13.70	669	14.50	695	15.40	720	16.20		

Performance certified is for installation type B – free inlet, ducted outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances (accessories).

Size 270

Wheel Diameter: 27.5"

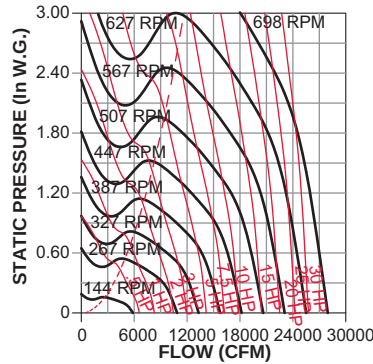
Tip Speed (FPM) = 7.20 x RPM

Inlet Area: 4.67 Sq. Ft.

Outlet Area: 4.23 Sq. Ft.

Outlet Velocity (FPM) = CFM/4.23

Max. RPM: 698



Size 300

Wheel Diameter: 30"

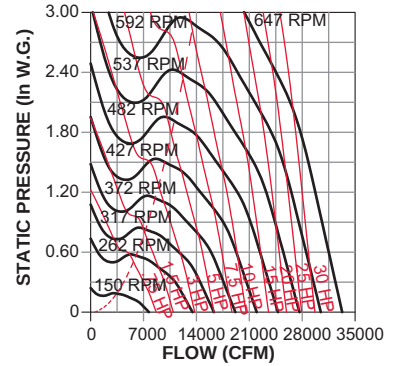
Tip Speed (FPM) = 7.85 x RPM

Inlet Area: 5.59 Sq. Ft.

Outlet Area: 5.23 Sq. Ft.

Outlet Velocity (FPM) = CFM/5.23

Max. RPM: 647



	CFM	OV	0.125 SP		0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP	
			RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
Size 270 (Forward curved blade)	4000	945	144	.19	186	.29																		
	5000	1180	157	.30	196	.42	258	.67																
	6000	1417	172	.46	208	.60	267	.90	316	1.20														
	7000	1653	192	.69	220	.83	277	1.18	323	1.51	365	1.87												
	8000	1889	213	.98	235	1.13	288	1.52	333	1.91	373	2.31	409	2.69										
	9000	2125	236	1.38	253	1.51	300	1.91	343	2.36	382	2.81	417	3.24	450	3.69								
	10000	2361	259	1.86	273	1.99	313	2.41	355	2.89	392	3.39	427	3.90	458	4.36	488	4.86	517	5.37				
	11000	2597	282	2.45	295	2.59	328	3.01	367	3.50	403	4.04	437	4.62	468	5.16	497	5.69	524	6.20	577	7.33		
	12000	2834	306	3.16	317	3.30	345	3.72	380	4.23	415	4.79	447	5.39	478	6.02	506	6.59	533	7.17	584	8.36	631	9.55
	13000	3070	330	4.01	340	4.15	364	4.55	394	5.07	428	5.67	459	6.30	488	6.94	516	7.60	543	8.26	592	9.49	638	10.80
	14000	3306	354	4.98	363	5.12	384	5.51	410	6.05	441	6.67	472	7.34	500	8.01	527	8.72	553	9.43	602	10.80	647	12.20
	15000	3542	378	6.09	386	6.24	405	6.63	428	7.17	455	7.81	484	8.46	512	9.17	539	9.96	564	10.70	612	12.20	656	13.70
Size 300 (Forward curved blade)	16000	3778	402	7.36	410	7.54	427	7.93	447	8.44	471	9.10	498	9.81	525	10.50	551	11.30	576	12.10	622	13.70	666	15.30
	17000	4014	426	8.80	434	9.02	449	9.37	467	9.88	488	10.50	512	11.30	538	12.00	563	12.80	588	13.70	633	15.30	676	17.10
	18000	4251	450	10.40	457	10.60	472	11.00	488	11.50	507	12.20	528	12.90	552	13.70	576	14.50	600	15.30	645	17.10	687	19.00
	19000	4487	474	12.20	481	12.50	495	12.90	510	13.40	526	13.90	545	14.70	567	15.50	590	16.40	613	17.20	657	19.00	698	21.00
	20000	4723	498	14.20	505	14.50	518	14.90	532	15.40	547	16.00	564	16.70	583	17.50	604	18.40	626	19.30	669	21.10		
	5800	1110	150	.33	186	.47	247	.77																
	7000	1339	166	.52	199	.68	253	1.02																
	8200	1568	185	.78	212	.94	263	1.33	308	1.75	349	2.17												
	9400	1798	205	1.12	227	1.30	276	1.73	316	2.18	355	2.66	392	3.16										
	10600	2028	227	1.57	245	1.75	289	2.20	328	2.71	363	3.23	398	3.79	431	4.35								
	11800	2257	248	2.10	265	2.32	302	2.76	341	3.34	374	3.90	405	4.47	437	5.10	467	5.72	495	6.32				
	13000	2487	270	2.76	285	2.98	317	3.47	354	4.05	387	4.69	416	5.29	445	5.96	473	6.61	501	7.30	553	8.66		
	14200	2716	292	3.54	306	3.78	334	4.30	367	4.88	400	5.58	429	6.26	456	6.95	482	7.65	507	8.33	558	9.83	605	11.30
	15400	2946	314	4.47	328	4.75	353	5.30	382	5.91	413	6.58	442	7.33	468	8.06	493	8.82	517	9.57	564	11.10	611	12.80
	16600	3176	337	5.57	349	5.83	373	6.44	398	7.07	426	7.72	455	8.53	481	9.32	505	10.10	528	10.90	572	12.50	617	14.30
	17800	3405	359	6.79	371	7.11	393	7.73	416	8.43	441	9.10	468	9.86	494	10.70	518	11.60	541	12.50	583	14.20	624	15.90
	19000	3635	382	8.25	393	8.56	414	9.22	435	9.94	457	10.60	482	11.40	507	12.30	531	13.20	554	14.10	595	15.90	634	17.80
	20200	3864	405	9.88	415	10.20	435	10.90	455	11.70	475	12.40	497	13.20	521	14.00	544	14.90	567	16.00	608	17.90	646	19.90
	21400	4094	428	11.70	437	12.00	457	12.80	475	13.60	493	14.30	513	15.10	535	16.00	558	17.00	580	18.00	621	20.00		
	22600	4324	450	13.70	460	14.10	478	14.90	496	15.70	513	16.50	531	17.40	551	18.30	572	19.20	593	20.10	634	22.30		
	23800	4553	473	15.90	482	16.30	500	17.20	517	18.10	533	18.90	549	19.70	567	20.60	587	21.60	607	22.60	647	24.80		
	25000	4783	496	18.40	505	18.90	522	19.80	538	20.60	553	21.50	569	22.40	585	23.40	603	24.40	621	25.30				

Performance certified is for installation type B – free inlet, ducted outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances (accessories).

CPV Size 60 & 70 Sound Data

60 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
900	0.25	Inlet	56	54	45	43	36	36	31	26	45
		Outlet	69	61	58	51	47	41	34	27	55
1200	0.25	Inlet	63	63	61	55	48	43	38	32	57
		Outlet	77	71	68	63	58	52	44	36	65
	0.5	Inlet	61	63	59	51	46	44	41	35	55
		Outlet	77	70	66	59	55	50	44	37	63
1500	0.25	Inlet	66	72	72	63	58	50	47	40	66
		Outlet	82	78	74	70	64	60	52	44	72
	0.5	Inlet	65	71	71	61	55	48	45	39	65
		Outlet	83	78	73	69	63	58	50	43	71
	0.75	Inlet	65	71	71	59	54	48	47	42	65
		Outlet	83	78	73	67	60	57	50	44	70
1800	0.25	Inlet	68	79	75	69	65	55	53	46	72
		Outlet	86	84	78	77	70	66	59	50	77
	0.5	Inlet	69	78	74	68	64	54	52	45	71
		Outlet	88	84	77	76	69	65	58	49	77
	1	Inlet	67	77	74	65	61	52	52	46	69
		Outlet	87	85	76	73	66	62	56	49	75
2100	0.25	Inlet	71	82	79	74	70	61	58	51	76
		Outlet	88	88	82	81	75	71	64	56	82
	0.75	Inlet	72	81	78	73	68	59	56	49	75
		Outlet	90	88	81	79	74	70	63	54	81
	1.5	Inlet	71	80	78	71	64	57	56	51	73
		Outlet	89	88	81	77	70	66	61	55	79
2400	0.25	Inlet	74	83	83	79	73	66	62	56	80
		Outlet	89	90	86	84	79	75	68	60	85
	1	Inlet	76	83	81	77	71	63	59	54	78
		Outlet	91	90	85	83	77	73	67	59	84
	2	Inlet	76	82	81	75	67	61	59	55	77
		Outlet	92	89	84	81	73	69	65	59	82
2700	0.75	Inlet	78	86	85	80	75	68	65	58	82
		Outlet	91	92	89	87	81	78	72	63	88
	1.25	Inlet	79	85	85	80	74	66	63	57	81
		Outlet	92	92	88	86	81	77	71	63	87
	2.25	Inlet	80	85	84	78	71	64	62	58	80
		Outlet	94	90	87	85	77	73	69	62	85

70 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
1100	0.25	Inlet	63	61	57	53	45	42	37	31	54
		Outlet	73	68	66	59	54	47	39	32	62
1300	0.25	Inlet	66	68	66	59	52	46	42	35	61
		Outlet	78	73	71	65	59	53	45	37	67
	0.5	Inlet	65	68	65	57	51	47	43	37	60
		Outlet	79	73	70	63	57	52	45	38	66
1500	0.25	Inlet	69	73	73	63	58	51	47	40	68
		Outlet	83	79	75	71	64	59	51	42	72
	0.5	Inlet	68	73	72	62	57	50	46	40	66
		Outlet	82	77	74	69	62	57	49	42	71
1700	0.25	Inlet	71	78	76	67	64	54	51	44	71
		Outlet	85	84	77	75	68	63	55	47	76
	0.5	Inlet	71	78	75	66	62	53	50	43	70
		Outlet	83	81	76	74	66	62	54	46	75
	0.75	Inlet	69	77	74	65	62	53	50	45	70
		Outlet	86	81	76	72	65	61	53	46	74
1900	0.25	Inlet	72	83	78	71	68	58	55	48	74
		Outlet	87	88	79	79	71	67	60	51	80
	0.75	Inlet	72	81	76	69	67	56	53	47	73
		Outlet	87	85	78	77	69	65	57	50	77
	1	Inlet	70	81	76	68	66	56	54	48	73
		Outlet	89	85	78	76	68	64	57	50	77
2100	0.25	Inlet	74	84	81	75	70	62	58	51	77
		Outlet	88	90	83	81	75	70	63	54	82
	0.75	Inlet	75	83	79	74	69	60	56	50	76
		Outlet	87	87	81	80	73	68	61	53	80
	1.25	Inlet	73	82	79	73	68	60	57	52	75
		Outlet	90	87	81	78	71	67	60	53	80
2300	0.25	Inlet	76	85	83	78	73	65	60	54	80
		Outlet	89	91	86	83	78	73	66	58	85
	1	Inlet	77	84	82	77	71	63	58	53	78
		Outlet	89	88	84	81	75	70	63	56	82
	1.5	Inlet	75	84	82	76	70	63	59	55	78
		Outlet	91	89	84	81	74	69	63	56	82
2500	0.5	Inlet	78	88	85	80	74	67	62	56	82
		Outlet	90	92	88	85	79	75	68	60	86
	1.25	Inlet	79	86	84	79	73	65	61	55	80
		Outlet	90	90	86	83	77	73	66	58	85
	1.75	Inlet	78	86	84	79	72	65	62	58	80
		Outlet	92	90	86	83	76	72	66	59	84
2700	1.5	Inlet	81	89	86	80	75	67	63	58	82
		Outlet	91	92	88	85	79	75	68	61	86
	2	Inlet	81	88	86	80	74	67	64	60	82
		Outlet	94	91	88	85	78	74	68	61	86
	2.25	Inlet	81	88	86	80	74	67	65	61	82
		Outlet	95	91	88	85	78	74	68	61	86

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_Wi, L_WiA and outlet L_Wo, L_WoA sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

80 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
900	0.25	Inlet	55	54	46	46	40	37	32	27	47
		Outlet	67	60	57	50	46	40	33	26	53
1200	0.25	Inlet	59	64	62	57	52	47	42	36	59
		Outlet	73	69	68	62	56	50	42	34	64
	0.5	Inlet	63	65	60	54	50	45	41	36	57
		Outlet	76	70	66	59	54	49	42	36	62
1500	0.25	Inlet	61	72	73	64	61	55	50	44	68
		Outlet	79	77	74	71	64	59	51	43	72
	0.5	Inlet	60	70	71	62	58	52	48	42	66
		Outlet	77	76	72	68	62	56	49	42	70
	0.75	Inlet	64	72	72	60	57	51	47	42	66
		Outlet	80	77	72	66	60	55	49	43	69
1800	0.25	Inlet	63	78	77	70	67	60	57	50	73
		Outlet	84	83	77	77	70	66	58	50	77
	0.75	Inlet	61	76	74	66	64	57	53	47	70
		Outlet	81	82	75	74	67	62	55	47	75
	1	Inlet	64	76	74	65	62	56	52	47	69
		Outlet	82	82	75	72	65	61	55	48	73
2100	0.25	Inlet	67	79	80	76	72	66	62	55	78
		Outlet	86	85	81	81	75	71	64	55	81
	1	Inlet	65	78	77	72	68	62	58	52	74
		Outlet	83	84	79	78	72	67	60	52	79
	1.5	Inlet	71	81	79	72	67	61	57	52	74
		Outlet	87	86	80	76	70	65	59	53	78
2400	0.25	Inlet	71	81	83	80	75	70	66	60	81
		Outlet	89	87	85	84	79	75	68	60	85
	1.25	Inlet	70	79	80	77	72	66	62	56	78
		Outlet	85	85	83	81	76	71	64	57	82
	2	Inlet	76	84	82	77	70	65	61	57	78
		Outlet	90	88	83	80	73	69	64	57	81
2700	2.5	Inlet	79	87	85	79	73	67	64	60	81
		Outlet	91	89	86	83	77	72	67	61	84

100 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
1100	0.25	Inlet	58	61	57	53	49	46	40	33	56
		Outlet	71	65	62	55	51	46	39	32	58
1400	0.25	Inlet	62	71	71	61	57	53	49	42	65
		Outlet	77	74	70	63	58	54	47	40	67
	0.5	Inlet	60	68	68	59	55	51	47	40	63
		Outlet	76	73	69	62	57	53	46	39	65
1700	0.25	Inlet	64	77	77	67	64	58	57	49	72
		Outlet	82	80	76	70	64	61	55	47	73
	0.5	Inlet	62	75	75	66	63	57	55	48	70
		Outlet	81	80	74	69	63	59	53	46	71
	0.75	Inlet	62	74	74	64	61	56	53	46	69
		Outlet	80	79	73	68	62	59	53	46	71
2000	0.25	Inlet	67	81	80	73	69	63	62	55	76
		Outlet	86	84	80	76	69	66	61	53	77
	0.75	Inlet	64	77	78	71	67	61	60	53	74
		Outlet	83	83	78	74	67	64	58	51	76
	1.25	Inlet	68	79	77	69	66	60	58	51	73
		Outlet	85	84	77	73	67	63	57	51	75
2300	0.25	Inlet	71	82	83	79	73	68	66	61	80
		Outlet	88	86	83	81	73	70	65	58	82
	1	Inlet	70	79	80	76	70	66	63	58	77
		Outlet	85	84	81	78	71	68	63	56	79
	1.5	Inlet	71	79	79	74	69	64	62	56	76
		Outlet	85	84	81	77	71	67	62	55	79
2600	0.5	Inlet	75	83	84	81	76	71	68	64	82
		Outlet	91	87	85	85	76	73	68	62	85
	1.25	Inlet	75	81	83	79	74	69	66	62	80
		Outlet	88	85	84	83	75	71	66	60	83
	2	Inlet	78	83	83	77	72	68	65	60	79
		Outlet	88	86	83	81	74	70	66	59	82

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{WA}, L_{WA} and outlet L_{WA}. L_{WA} sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

CPV Size 120 & 135 Sound Data

120 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}	
			OCTAVE BANDS									
			1	2	3	4	5	6	7	8		
900	0.25	Inlet	59	61	59	54	51	49	42	35	57	
		Outlet	71	65	60	55	53	50	42	36	59	
1050	0.25	Inlet	63	67	67	59	55	54	47	40	63	
		Outlet	75	72	66	60	57	56	47	41	64	
	0.5	Inlet	64	64	62	55	53	52	45	39	60	
		Outlet	80	70	63	57	56	54	46	40	63	
1200	0.25	Inlet	66	72	73	64	59	59	53	45	68	
		Outlet	79	77	71	65	61	61	53	46	69	
	0.5	Inlet	65	70	69	61	57	57	51	44	65	
		Outlet	78	76	68	62	60	59	51	44	67	
1350	0.25	Inlet	68	73	74	68	62	61	57	50	71	
		Outlet	81	80	73	68	64	63	58	51	72	
	0.5	Inlet	67	73	72	66	61	60	55	48	69	
		Outlet	79	79	71	67	63	62	55	48	71	
	0.75	Inlet	68	71	69	63	60	59	53	47	67	
		Outlet	82	79	69	64	62	61	54	47	69	
1500	0.25	Inlet	69	75	75	72	66	64	61	54	73	
		Outlet	83	82	74	72	67	66	62	56	75	
	0.75	Inlet	68	74	71	69	64	62	57	51	70	
		Outlet	80	80	72	69	65	64	58	51	72	
	1	Inlet	71	74	69	66	62	61	56	50	69	
		Outlet	86	81	71	67	64	63	57	50	72	
1650	0.25	Inlet	71	77	77	75	69	66	63	58	76	
		Outlet	85	83	78	74	70	68	65	60	77	
	0.75	Inlet	70	76	75	72	67	64	60	54	74	
		Outlet	82	82	76	73	69	66	61	54	75	
	1.25	Inlet	74	77	72	69	64	63	59	52	71	
		Outlet	88	85	75	70	66	65	60	53	75	
1800	0.25	Inlet	72	78	79	77	71	68	66	61	78	
		Outlet	87	85	80	77	72	70	68	64	80	
	0.75	Inlet	71	77	78	76	70	66	63	57	77	
		Outlet	84	83	79	76	71	69	64	58	78	
	1.5	Inlet	76	80	75	72	66	64	61	55	74	
		Outlet	90	87	78	73	69	67	62	55	77	
1950	0.25	Inlet	74	80	81	79	73	70	68	64	80	
		Outlet	89	86	82	79	75	72	70	67	82	
	1	Inlet	72	78	79	77	71	68	65	59	78	
		Outlet	85	83	82	78	73	70	66	60	80	
	1.75	Inlet	77	82	77	74	68	66	63	57	76	
		Outlet	90	88	80	75	71	68	64	58	79	
2100	0.25	Inlet	76	81	83	81	75	71	70	67	82	
		Outlet	92	87	84	81	76	74	72	70	83	
	1	Inlet	74	80	81	79	74	70	68	62	80	
		Outlet	88	84	84	80	75	73	69	63	82	
	2	Inlet	77	83	79	75	70	68	65	59	77	
		Outlet	91	88	82	77	72	70	66	60	80	
2250	0.25	Inlet	77	82	84	82	77	73	71	69	84	
		Outlet	95	87	86	83	78	76	74	72	85	
	1.25	Inlet	75	80	82	80	75	71	69	63	81	
		Outlet	90	84	85	82	77	74	70	65	84	
	2.25	Inlet	78	84	80	77	72	69	67	61	79	
		Outlet	91	88	83	79	74	72	68	62	81	
2400	0.25	Inlet	79	83	86	83	79	75	73	70	85	
		Outlet	97	88	88	84	79	78	75	74	87	
	1.25	Inlet	76	82	84	81	77	73	71	66	83	
		Outlet	93	85	87	84	79	76	72	68	85	
	2.5	Inlet	79	85	82	78	73	71	68	63	80	
		Outlet	92	87	85	81	76	73	69	63	83	

135 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
800	0.25	Inlet	61	61	59	54	52	48	42	35	57
		Outlet	72	64	60	56	54	49	42	36	59
920	0.25	Inlet	64	67	66	59	56	53	46	39	63
		Outlet	76	70	66	60	58	55	47	40	64
	0.5	Inlet	66	64	62	56	54	52	45	38	60
		Outlet	81	69	63	58	57	53	45	40	63
1040	0.25	Inlet	67	72	71	63	59	58	51	44	67
		Outlet	79	75	70	64	61	59	51	45	68
	0.5	Inlet	66	69	67	60	58	56	50	43	64
		Outlet	78	74	67	62	60	58	50	43	66
1160	0.25	Inlet	69	74	75	66	62	61	56	48	70
		Outlet	81	79	73	68	64	63	56	49	72
	0.5	Inlet	68	73	72	65	61	60	53	46	69
		Outlet	80	78	72	66	63	62	53	47	70
	0.75	Inlet	71	71	69	61	59	59	52	46	66
		Outlet	85	77	69	63	61	61	52	46	69
1280	0.25	Inlet	71	76	76	70	65	64	60	52	73
		Outlet	83	81	75	70	67	66	60	54	74
	0.75	Inlet	70	74	72	67	62	62	56	49	70
		Outlet	81	80	73	68	65	64	56	49	72
	1	Inlet	76	76	72	65	62	61	55	48	69
		Outlet	92	82	73	67	64	63	55	49	73
1400	0.25	Inlet	72	78	77	73	67	66	62	56	75
		Outlet	85	83	77	73	69	68	64	58	76
	0.75	Inlet	71	76	74	70	65	64	59	52	73
		Outlet	82	82	75	71	68	66	59	53	74
	1	Inlet	73	76	72	68	64	63	58	51	71
		Outlet	85	82	74	69	66	65	58	52	73
1520	0.25	Inlet	74	79	78	75	70	67	65	59	77
		Outlet	86	85	78	76	72	70	67	62	78
	0.75	Inlet	73	78	76	74	68	66	62	55	75
		Outlet	83	83	77	74	70	68	62	56	77
	1.25	Inlet	75	77	73	70	66	64	60	54	73
		Outlet	87	84	75	71	68	66	61	54	75
1640	0.25	Inlet	75	80	80	78	72	69	67	62	79
		Outlet	88	86	80	78	74	72	69	65	80
	0.75	Inlet	74	79	79	76	71	68	64	58	78
		Outlet	85	84	80	77	73	70	65	59	79
	1.5	Inlet	77	79	75	72	67	66	62	56	74
		Outlet	89	85	77	73	70	68	63	56	77
1760	0.25	Inlet	76	82	81	79	74	71	69	65	81
		Outlet	90	87	83	80	76	73	71	68	82
	1	Inlet	75	80	80	78	72	69	66	60	79
		Outlet	86	85	82	78	74	71	67	60	81
	1.75	Inlet	78	81	77	74	69	67	64	58	76
		Outlet	90	87	79	75	71	69	65	58	79
1880	0.25	Inlet	78	83	83	81	76	72	71	67	82
		Outlet	92	88	84	81	77	75	73	71	84
	1	Inlet	76	81	81	79	74	71	68	62	81
		Outlet	88	85	84	80	76	73	69	64	83
	2	Inlet	79	83	78	75	71	68	65	60	78
		Outlet	91	88	81	77	73	71	66	60	80
2000	0.5	Inlet	78	83	84	82	77	73	71	68	83
		Outlet	93	88	86	83	78	76	73	71	85
	1.25	Inlet	77	82	82	80	76	72	69	64	82
		Outlet	90	85	85	82	77	75	70	65	84
	2.25	Inlet	80	85	80	77	72	70	67	61	79
		Outlet	92	88	83	79	74	72	68	62	82

150 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
800	0.25	Inlet	61	63	62	58	57	53	46	37	62
		Outlet	67	68	64	60	58	51	43	35	63
920	0.25	Inlet	65	68	68	63	61	59	52	44	67
		Outlet	73	72	70	64	63	57	48	40	68
	0.5	Inlet	61	65	64	59	58	56	49	40	63
		Outlet	63	68	67	61	61	55	47	40	65
1040	0.25	Inlet	67	72	73	66	64	64	59	50	71
		Outlet	77	75	76	67	67	62	53	45	72
	0.5	Inlet	65	70	70	64	62	61	54	46	68
		Outlet	70	72	73	65	65	60	51	44	70
	0.75	Inlet	67	68	67	61	59	59	52	45	65
		Outlet	77	71	71	63	64	58	51	44	68
1160	0.25	Inlet	70	75	78	70	67	67	64	55	75
		Outlet	81	77	81	70	70	66	57	49	76
	0.5	Inlet	69	74	75	68	66	65	59	50	72
		Outlet	77	75	77	68	69	64	55	47	74
	0.75	Inlet	66	72	72	65	64	63	57	48	70
		Outlet	68	72	76	66	68	63	54	47	72
1280	0.25	Inlet	71	77	80	73	69	70	68	60	77
		Outlet	83	80	83	73	73	70	61	54	79
	0.75	Inlet	69	75	76	70	67	66	61	53	74
		Outlet	75	75	79	70	70	67	58	51	75
	1	Inlet	69	74	74	67	65	65	59	51	72
		Outlet	71	73	77	68	69	65	57	50	74
1400	0.25	Inlet	73	78	82	75	71	72	71	65	80
		Outlet	84	81	85	76	74	72	66	59	81
	0.75	Inlet	72	78	79	73	70	69	64	57	77
		Outlet	80	79	81	74	72	70	63	56	78
	1.25	Inlet	72	76	76	70	66	66	62	54	74
		Outlet	77	77	79	71	70	67	60	54	76
1520	0.25	Inlet	75	80	83	78	73	74	73	70	82
		Outlet	86	83	86	79	76	75	70	64	83
	1	Inlet	73	78	80	75	71	70	66	59	78
		Outlet	81	80	83	76	73	72	66	59	80
	1.5	Inlet	75	78	78	72	68	68	64	57	76
		Outlet	82	79	81	74	72	69	63	56	78
1640	0.25	Inlet	77	81	85	79	75	75	75	74	84
		Outlet	88	84	87	80	78	77	73	69	84
	1	Inlet	75	80	83	77	73	73	69	62	80
		Outlet	85	82	85	78	75	74	70	63	82
	1.75	Inlet	77	79	81	74	69	69	66	59	77
		Outlet	84	81	83	76	73	72	65	59	80
1760	0.25	Inlet	78	82	86	81	76	77	77	77	85
		Outlet	91	84	87	81	79	78	76	73	86
	1	Inlet	77	82	85	79	74	76	72	65	83
		Outlet	89	83	88	80	77	77	73	68	85
	2.25	Inlet	83	84	82	75	70	70	67	62	79
		Outlet	93	86	85	77	74	72	67	61	82
1880	0.25	Inlet	80	83	87	82	76	79	78	80	87
		Outlet	94	84	88	82	80	80	78	77	87
	1.25	Inlet	79	83	86	80	74	77	73	67	84
		Outlet	91	83	89	80	78	78	75	70	86
	2.5	Inlet	85	85	84	77	71	72	69	63	80
		Outlet	94	86	86	79	76	74	69	63	83
2000	0.75	Inlet	81	84	88	84	77	79	78	77	87
		Outlet	94	85	89	83	81	81	79	76	88
	1.75	Inlet	81	83	86	82	75	77	74	68	84
		Outlet	91	85	89	82	79	79	75	70	86
	2.5	Inlet	83	83	85	80	73	74	72	66	82
		Outlet	91	85	87	81	78	77	72	65	85

165 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
750	0.25	Inlet	64	65	63	60	59	55	47	38	63
		Outlet	69	70	65	62	60	52	44	36	64
850	0.5	Inlet	64	66	65	60	59	56	49	40	64
		Outlet	65	70	67	63	62	55	47	40	66
950	0.25	Inlet	69	73	73	67	65	64	58	49	71
		Outlet	78	77	75	68	67	62	53	45	72
	0.5	Inlet	67	71	70	65	63	61	54	45	69
		Outlet	72	73	72	66	65	60	51	44	70
	0.75	Inlet	68	69	67	62	60	59	52	44	66
		Outlet	76	72	70	64	64	58	51	44	68
1050	0.25	Inlet	71	76	77	70	68	68	63	54	75
		Outlet	81	79	80	71	71	66	56	49	76
	0.5	Inlet	70	75	75	68	66	65	58	50	72
		Outlet	77	76	77	69	69	64	55	47	74
	0.75	Inlet	68	73	72	66	64	63	56	48	70
		Outlet	69	73	75	67	68	62	54	47	72
1150	0.25	Inlet	73	78	80	72	70	70	67	59	78
		Outlet	83	80	83	73	73	69	61	53	79
	0.5	Inlet	73	78	78	71	69	68	62	54	76
		Outlet	82	79	80	71	72	68	59	51	77
	1	Inlet	71	75	74	67	65	65	59	51	72
		Outlet	74	75	77	68	70	65	57	50	74
1250	0.25	Inlet	75	80	82	75	72	73	71	64	80
		Outlet	85	82	85	75	75	72	65	58	81
	0.75	Inlet	73	79	79	72	70	69	64	56	77
		Outlet	80	79	81	73	73	69	62	55	78
	1.25	Inlet	74	77	76	69	66	66	61	54	74
		Outlet	81	77	79	70	71	67	59	53	76
1350	0.25	Inlet	76	81	84	77	73	74	73	68	82
		Outlet	86	83	86	78	76	74	69	63	83
	0.75	Inlet	75	80	81	75	72	71	67	59	79
		Outlet	84	82	84	76	75	72	66	59	81
	1.5	Inlet	77	79	78	71	68	68	63	56	75
		Outlet	85	80	81	73	72	68	62	56	78
1450	0.25	Inlet	77	82	85	79	75	76	75	72	84
		Outlet	88	84	88	80	78	76	72	67	84
	1	Inlet	76	81	83	76	73	73	68	61	80
		Outlet	84	82	85	77	76	74	68	62	82
	1.75	Inlet	79	81	80	73	69	69	65	58	77
		Outlet	87	83	83	75	73	70	64	58	80
1550	0.25	Inlet	79	83	87	80	76	77	77	76	85
		Outlet	90	85	89	81	79	78	75	71	86
	1	Inlet	78	83	85	78	74	75	71	64	82
		Outlet	87	84	88	79	77	76	72	66	84
	2	Inlet	81	82	83	75	70	70	67	61	79
		Outlet	89	84	85	77	75	72	66	60	81
1650	0.25	Inlet	81	84	88	82	77	79	79	79	87
		Outlet	92	85	89	82	80	80	77	75	87
	1.25	Inlet	80	83	86	79	75	76	72	65	83
		Outlet	89	84	89	80	78	77	73	68	85
	2.25	Inlet	83	84	84	76	71	72	69	62	80
		Outlet	91	86	86	78	76	74	68	62	83
1750	0.5	Inlet	82	85	89	82	78	79	79	79	87
		Outlet	94	85	89	83	81	81	79	76	88
	0.75	Inlet	82	85	88	82	77	79	78	75	86
		Outlet	93	85	90	82	81	80	78	75	88
	1	Inlet	81	85	88	82	77	79	76	71	86
		Outlet	92	85	90	82	80	80	77	73	88

CPV Size 180 & 195 Sound Data

180 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
575	0.25	Inlet	57	59	56	54	51	48	43	39	56
		Outlet	68	66	61	58	53	47	40	34	60
675	0.25	Inlet	62	66	62	60	57	54	50	45	63
		Outlet	75	72	67	63	59	53	45	39	66
775	0.25	Inlet	66	71	67	64	62	59	54	50	67
		Outlet	80	77	72	68	64	58	51	45	70
	0.5	Inlet	65	68	64	61	58	55	51	46	64
		Outlet	77	73	69	64	61	56	49	43	67
875	0.25	Inlet	70	73	71	67	65	63	58	54	71
		Outlet	84	79	77	71	69	63	56	50	74
	0.5	Inlet	68	71	69	65	63	60	56	52	69
		Outlet	83	77	75	69	67	61	53	47	72
	0.75	Inlet	68	70	66	62	59	57	52	47	65
		Outlet	79	73	70	65	63	59	53	47	68
975	0.25	Inlet	73	76	75	70	68	66	62	58	74
		Outlet	86	82	80	74	72	67	60	54	78
	0.5	Inlet	71	74	73	69	67	64	60	56	72
		Outlet	87	80	79	72	70	65	57	50	76
	1	Inlet	75	73	70	66	62	60	55	50	69
		Outlet	86	76	73	67	66	62	56	50	71
1075	0.25	Inlet	74	77	77	73	71	69	65	61	77
		Outlet	87	84	82	77	74	70	64	58	80
	0.75	Inlet	71	75	75	70	68	66	62	58	74
		Outlet	86	81	80	74	71	67	60	54	77
	1.25	Inlet	78	77	74	68	65	62	58	53	71
		Outlet	88	80	76	70	68	64	59	53	74
1175	0.25	Inlet	75	79	80	75	73	71	68	64	79
		Outlet	87	85	84	78	76	73	67	62	82
	0.75	Inlet	73	77	78	73	71	69	65	62	77
		Outlet	87	83	82	76	74	70	64	58	80
	1.5	Inlet	80	79	77	71	67	64	60	56	74
		Outlet	91	83	79	73	70	66	61	56	77
1275	0.25	Inlet	77	80	82	77	74	73	70	66	81
		Outlet	88	86	87	80	77	75	70	65	84
	1	Inlet	74	76	79	74	72	70	67	64	78
		Outlet	87	82	84	77	75	72	67	61	81
	1.75	Inlet	82	81	79	73	69	66	63	59	76
		Outlet	92	86	81	75	72	69	64	59	79
1375	0.25	Inlet	79	81	84	79	76	75	72	69	83
		Outlet	90	86	89	81	79	76	73	68	85
	1	Inlet	76	77	82	76	74	73	70	66	80
		Outlet	88	82	87	78	77	74	69	65	83
	2	Inlet	84	82	81	74	71	68	65	61	78
		Outlet	94	87	84	76	74	70	66	61	81
1475	0.25	Inlet	81	81	85	80	77	77	74	71	84
		Outlet	91	85	91	81	80	78	75	71	87
	1.25	Inlet	78	77	83	77	75	74	71	68	81
		Outlet	89	80	89	78	78	75	71	67	84
	2.25	Inlet	85	81	82	75	72	70	66	64	79
		Outlet	95	86	87	77	76	72	67	63	82
1575	1.75	Inlet	79	78	83	78	75	75	72	69	82
		Outlet	90	80	89	79	78	76	72	69	85
	2	Inlet	80	78	82	77	74	74	71	68	81
		Outlet	91	81	89	79	77	75	71	67	84

195 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
550	0.25	Inlet	59	61	58	56	53	50	45	41	58
		Outlet	70	68	63	60	55	48	41	35	61
650	0.25	Inlet	65	68	64	61	59	56	51	47	64
		Outlet	77	74	69	65	61	54	47	40	67
	0.5	Inlet	64	65	60	57	54	51	46	40	60
		Outlet	72	69	63	60	57	52	46	41	63
750	0.25	Inlet	69	73	69	66	63	60	56	52	69
		Outlet	82	79	74	69	66	60	53	47	72
	0.5	Inlet	67	71	66	63	61	58	53	49	66
		Outlet	80	76	71	67	64	58	51	45	69
850	0.25	Inlet	72	76	73	69	67	64	60	56	73
		Outlet	85	81	78	73	70	65	58	52	76
	0.5	Inlet	71	74	71	68	65	63	58	54	71
		Outlet	85	80	77	71	68	63	55	48	74
	0.75	Inlet	70	73	69	65	62	59	55	50	68
		Outlet	82	76	73	68	66	61	54	49	71
950	0.25	Inlet	75	78	76	72	70	68	64	60	76
		Outlet	87	83	81	76	74	69	62	56	79
	0.5	Inlet	73	77	75	71	69	66	62	58	74
		Outlet	87	82	80	74	72	67	59	53	78
	1	Inlet	72	74	71	67	64	62	57	53	70
		Outlet	83	77	75	69	68	64	58	53	73
1050	0.25	Inlet	76	79	79	75	72	70	67	63	78
		Outlet	88	85	84	78	76	72	66	61	81
	0.75	Inlet	74	77	77	72	70	68	64	61	76
		Outlet	87	83	81	76	73	69	62	57	79
	1.25	Inlet	74	75	74	69	66	64	60	56	72
		Outlet	84	79	77	72	70	66	61	56	75
1150	0.25	Inlet	78	81	81	77	74	73	70	66	81
		Outlet	88	86	86	80	77	74	69	64	83
	0.75	Inlet	75	79	80	75	73	71	68	64	79
		Outlet	87	84	84	78	75	72	66	61	81
	1.5	Inlet	76	77	76	71	68	66	63	59	75
		Outlet	86	81	80	74	71	68	63	59	77
1250	0.25	Inlet	80	82	84	79	76	75	72	68	83
		Outlet	89	87	88	81	79	76	72	68	85
	1.25	Inlet	76	77	80	75	73	72	69	65	79
		Outlet	87	82	85	77	76	73	68	64	82
	2	Inlet	86	84	81	75	71	68	64	61	78
		Outlet	95	88	84	77	74	70	65	61	81
1350	0.25	Inlet	81	82	85	80	78	77	74	71	84
		Outlet	91	86	90	82	80	78	75	70	87
	1.25	Inlet	78	78	83	77	75	74	71	68	82
		Outlet	89	82	88	79	78	75	71	67	84
	2.25	Inlet	86	83	82	76	72	70	67	63	79
		Outlet	95	88	86	78	76	72	67	63	83
1450	0.25	Inlet	84	84	87	82	79	79	76	73	86
		Outlet	93	87	93	83	82	80	77	73	89
	1.25	Inlet	81	80	85	80	77	77	74	71	84
		Outlet	91	82	91	80	80	77	74	70	87
	2.5	Inlet	86	82	83	76	74	72	68	66	80
		Outlet	96	86	88	79	77	74	69	65	84
1550	0.75	Inlet	84	84	88	83	80	79	77	74	87
		Outlet	94	86	94	84	83	80	77	73	89
	1.75	Inlet	82	80	86	81	78	77	75	72	85
		Outlet	92	82	92	81	81	78	75	71	88
	2.25	Inlet	83	80	85	79	76	76	73	70	83
		Outlet	93	83	91	80	80	77	73	70	86

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{Wi}, L_{WA} and outlet L_{Wo}, L_{WA} sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

210 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
500	0.25	Inlet	60	61	58	56	53	47	41	34	58
		Outlet	69	64	61	60	57	50	44	37	61
590	0.25	Inlet	65	67	65	62	61	56	49	43	65
		Outlet	73	70	66	65	64	58	51	43	67
680	0.25	Inlet	69	71	70	66	66	63	55	48	70
		Outlet	77	74	70	68	68	64	56	49	72
	0.5	Inlet	67	69	66	63	61	56	50	44	66
		Outlet	77	73	68	66	65	59	52	45	69
770	0.25	Inlet	73	75	74	69	70	67	60	53	74
		Outlet	80	78	74	71	72	69	61	53	76
	0.5	Inlet	71	73	72	68	67	63	56	49	71
		Outlet	80	78	72	70	70	66	58	51	74
	0.75	Inlet	70	71	68	64	63	59	53	47	68
		Outlet	79	74	70	67	67	61	54	47	71
860	0.25	Inlet	75	77	77	73	72	71	64	57	77
		Outlet	82	81	78	74	74	72	65	57	79
	0.5	Inlet	73	76	76	71	71	68	62	55	75
		Outlet	81	80	76	73	73	70	63	56	77
	1	Inlet	73	73	71	66	65	61	56	50	70
		Outlet	81	77	73	69	68	63	57	50	73
950	0.25	Inlet	76	79	80	75	74	73	68	60	80
		Outlet	84	83	81	76	76	75	69	61	81
	0.75	Inlet	74	77	78	73	71	69	64	57	77
		Outlet	83	82	80	75	74	72	66	58	79
	1.25	Inlet	76	76	74	68	67	64	59	53	72
		Outlet	84	80	77	71	70	66	59	53	75
1040	0.25	Inlet	78	80	83	77	76	76	71	63	82
		Outlet	87	85	85	79	78	77	73	64	84
	1	Inlet	75	78	80	74	72	71	66	59	78
		Outlet	85	83	84	77	75	73	68	60	81
	1.5	Inlet	79	77	77	70	69	67	61	56	75
		Outlet	87	82	80	74	72	68	62	56	78
1130	0.25	Inlet	80	81	86	78	77	78	74	66	84
		Outlet	90	85	89	80	79	79	76	67	86
	1	Inlet	78	79	84	76	75	75	70	63	81
		Outlet	88	83	88	79	77	76	72	64	84
	1.75	Inlet	82	78	80	72	71	69	64	59	77
		Outlet	90	82	84	76	74	71	64	59	80
1220	0.25	Inlet	82	82	88	79	79	80	77	69	86
		Outlet	93	86	92	82	81	81	79	70	88
	1	Inlet	81	80	87	77	77	78	74	66	84
		Outlet	91	83	92	81	79	79	76	67	87
	2	Inlet	84	78	83	73	73	72	66	61	79
		Outlet	91	82	87	78	76	73	66	61	83
1310	0.25	Inlet	84	84	90	82	80	81	79	72	88
		Outlet	94	88	93	85	82	82	81	73	90
	1.25	Inlet	82	82	88	80	78	79	75	68	85
		Outlet	92	86	93	84	81	80	77	69	89
	2.5	Inlet	90	84	83	77	74	72	68	63	81
		Outlet	98	89	88	80	78	74	68	63	84
1400	1	Inlet	84	85	90	83	80	81	79	72	88
		Outlet	94	89	94	87	83	83	80	73	91
	1.5	Inlet	83	84	89	82	79	80	77	70	87
		Outlet	93	88	94	86	82	82	78	71	90
	2.25	Inlet	84	83	86	79	77	77	73	67	84
		Outlet	92	87	92	84	80	79	74	68	88

225 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
450	0.25	Inlet	59	60	57	55	51	45	39	33	57
		Outlet	68	63	59	59	55	48	41	34	60
530	0.25	Inlet	65	66	64	62	60	54	47	41	64
		Outlet	73	69	65	64	62	56	49	42	66
610	0.25	Inlet	69	71	69	66	65	61	54	47	69
		Outlet	76	73	69	68	67	62	54	47	71
	0.5	Inlet	67	67	65	61	60	54	48	42	64
		Outlet	75	71	66	65	63	57	50	43	67
690	0.25	Inlet	73	74	73	69	69	66	58	51	73
		Outlet	80	77	73	71	71	67	59	52	75
	0.5	Inlet	71	73	71	67	65	60	53	47	70
		Outlet	80	77	71	69	69	64	57	50	73
	0.75	Inlet	71	70	67	62	62	57	51	45	66
		Outlet	79	73	68	66	65	58	52	45	69
770	0.25	Inlet	75	77	76	72	72	70	62	55	76
		Outlet	82	81	76	73	74	71	63	55	78
	0.5	Inlet	73	76	75	70	70	67	60	53	74
		Outlet	81	80	75	72	73	69	61	54	77
	1	Inlet	77	73	70	65	64	60	54	48	69
		Outlet	85	76	72	67	67	61	55	48	72
850	0.25	Inlet	77	80	79	74	74	73	66	58	79
		Outlet	84	83	80	76	76	74	67	59	81
	0.5	Inlet	75	79	78	73	73	71	64	57	78
		Outlet	83	83	79	75	75	72	65	58	79
	1	Inlet	74	76	73	69	68	64	59	53	73
		Outlet	82	80	76	72	71	66	60	53	76
930	0.25	Inlet	78	81	81	76	76	75	70	62	81
		Outlet	86	85	83	78	77	76	71	62	83
	0.75	Inlet	76	79	79	74	73	72	66	59	79
		Outlet	84	84	82	77	76	74	68	60	81
	1.25	Inlet	76	77	76	70	69	67	61	55	75
		Outlet	84	81	79	74	72	68	62	56	77
1010	0.25	Inlet	80	82	84	78	77	77	73	65	83
		Outlet	89	86	86	80	79	78	74	65	85
	0.75	Inlet	78	81	83	76	75	75	70	62	81
		Outlet	87	85	86	79	78	76	71	63	84
	1.5	Inlet	78	78	78	72	71	69	63	58	76
		Outlet	86	82	82	76	74	70	64	58	79
1090	0.25	Inlet	82	83	87	79	79	79	75	67	85
		Outlet	91	87	90	82	80	80	77	68	87
	1	Inlet	80	81	85	77	76	76	72	64	83
		Outlet	89	85	90	80	79	78	73	65	86
	2	Inlet	87	81	81	74	71	70	64	60	78
		Outlet	95	86	85	77	75	71	65	60	81
1170	0.25	Inlet	84	83	89	80	80	81	78	70	87
		Outlet	94	87	92	83	82	82	80	71	89
	1.25	Inlet	82	81	87	78	77	78	74	66	84
		Outlet	91	85	93	82	80	79	75	67	88
	2.25	Inlet	89	82	83	75	73	72	67	62	80
		Outlet	97	86	88	79	77	73	67	62	84
1250	1.75	Inlet	83	82	88	79	78	79	74	68	85
		Outlet	92	85	94	84	81	80	75	68	89
	2	Inlet	84	82	87	78	77	77	72	66	84
		Outlet	92	85	92	82	80	78	73	67	87
	2.25	Inlet	85	81	86	76	76	75	70	65	82
		Outlet	93	84	91	81	79	77	71	65	86

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_Wi, L_WiA and outlet L_Wo, L_WoA sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

CPV Size 245 & 270 Sound Data

245 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
425	0.25	Inlet	61	62	57	55	54	49	43	35	58
		Outlet	69	69	62	59	57	51	43	35	62
505	0.25	Inlet	66	70	65	60	60	57	49	42	65
		Outlet	70	75	67	63	64	60	50	42	68
	0.5	Inlet	64	65	61	57	55	51	47	37	60
		Outlet	68	71	64	59	57	51	44	37	63
585	0.25	Inlet	70	75	70	63	64	63	55	47	69
		Outlet	71	82	72	67	67	66	56	48	73
	0.5	Inlet	68	72	67	61	62	58	53	45	67
		Outlet	69	78	72	64	65	61	52	45	70
665	0.25	Inlet	73	78	74	68	66	66	59	52	73
		Outlet	74	85	76	71	70	69	61	53	76
	0.5	Inlet	71	76	72	66	65	64	58	50	71
		Outlet	73	82	76	69	69	68	59	51	75
	0.75	Inlet	70	73	69	64	63	60	56	48	68
		Outlet	71	79	73	67	66	61	55	48	71
745	0.25	Inlet	75	81	77	71	69	68	63	56	75
		Outlet	78	87	80	74	72	71	65	57	79
	0.5	Inlet	74	80	76	70	68	67	62	54	74
		Outlet	76	85	78	73	71	70	64	55	78
	1	Inlet	72	75	71	66	65	62	58	51	70
		Outlet	73	80	75	69	67	63	57	52	73
825	0.25	Inlet	78	83	79	73	71	70	66	59	78
		Outlet	80	88	82	77	74	73	69	61	81
	0.75	Inlet	76	81	77	71	69	68	64	57	76
		Outlet	77	85	80	75	73	72	67	58	79
	1.25	Inlet	74	78	73	68	66	65	60	54	72
		Outlet	75	82	76	71	69	66	60	56	75
905	0.25	Inlet	80	85	81	75	73	72	68	62	80
		Outlet	82	90	84	79	77	74	72	64	83
	0.75	Inlet	78	84	80	73	71	70	67	60	78
		Outlet	79	87	82	77	75	73	71	62	82
	1.5	Inlet	76	80	75	69	68	67	62	57	74
		Outlet	77	83	78	73	71	69	63	60	77
985	0.25	Inlet	81	86	84	77	75	74	71	64	82
		Outlet	84	91	86	81	79	76	74	67	85
	1	Inlet	80	85	81	75	73	72	69	63	80
		Outlet	80	88	84	79	77	74	74	64	83
	1.75	Inlet	78	81	77	71	70	70	64	59	76
		Outlet	79	85	80	74	73	71	65	63	79
1065	0.25	Inlet	83	88	86	80	77	76	73	67	84
		Outlet	85	92	89	83	81	78	76	69	87
	1.25	Inlet	81	86	84	77	75	74	71	65	82
		Outlet	82	89	86	81	79	76	75	67	85
	2.25	Inlet	82	84	81	74	72	71	66	61	79
		Outlet	83	88	84	78	76	73	67	63	82
1145	0.25	Inlet	84	89	89	82	79	78	75	69	86
		Outlet	86	93	92	85	83	80	78	72	89
	1.25	Inlet	83	89	88	80	77	76	73	67	84
		Outlet	83	90	89	83	81	78	77	70	87
	2.5	Inlet	82	85	83	76	73	73	68	63	81
		Outlet	83	88	86	79	77	75	69	66	83
1225	0.75	Inlet	85	90	91	83	80	78	76	71	87
		Outlet	86	93	93	86	84	81	79	73	90
	1.5	Inlet	84	90	90	82	78	77	74	69	86
		Outlet	84	90	92	85	82	80	79	72	89
	2.5	Inlet	82	87	86	78	75	75	71	66	83
		Outlet	83	89	89	82	79	78	73	69	86

270 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
400	0.25	Inlet	63	64	59	57	56	51	44	37	60
		Outlet	72	71	63	61	60	53	44	37	64
460	0.25	Inlet	68	70	65	61	61	57	49	42	65
		Outlet	73	75	67	64	65	60	50	42	69
520	0.25	Inlet	71	75	70	64	64	62	54	46	69
		Outlet	74	80	72	67	68	65	55	47	73
	0.5	Inlet	69	71	66	61	61	57	52	44	66
		Outlet	71	77	70	65	65	59	51	44	69
580	0.25	Inlet	74	78	73	66	66	65	58	50	72
		Outlet	75	85	75	70	70	69	59	51	76
	0.5	Inlet	72	76	71	65	65	62	56	49	70
		Outlet	74	82	75	68	69	67	57	49	74
	0.75	Inlet	71	73	68	62	62	58	54	46	67
		Outlet	71	78	71	65	65	58	52	45	70
640	0.25	Inlet	76	80	75	69	68	68	61	54	74
		Outlet	78	87	78	73	72	71	63	55	78
	0.5	Inlet	75	79	74	68	67	66	59	52	73
		Outlet	76	84	77	71	71	70	61	53	77
	1	Inlet	75	74	70	65	63	60	56	49	69
		Outlet	76	80	73	68	66	61	55	49	72
700	0.25	Inlet	78	82	78	72	70	69	64	57	77
		Outlet	80	89	80	75	73	72	66	58	80
	0.5	Inlet	77	82	77	71	69	68	63	56	76
		Outlet	78	86	79	74	73	72	65	56	79
	1	Inlet	75	78	73	68	67	64	59	53	72
		Outlet	76	82	76	71	70	66	60	54	75
760	0.25	Inlet	80	85	80	74	72	71	66	59	79
		Outlet	82	90	82	77	75	74	69	61	82
	0.75	Inlet	78	83	77	72	70	69	64	58	77
		Outlet	79	87	81	76	74	73	67	58	80
	1.25	Inlet	76	80	74	69	68	65	60	55	73
		Outlet	77	84	77	72	71	67	61	57	76
820	0.25	Inlet	81	86	81	76	74	72	68	62	80
		Outlet	84	91	84	79	77	75	71	63	83
	1	Inlet	79	84	78	73	71	70	66	60	78
		Outlet	81	88	81	77	75	74	70	60	81
	1.5	Inlet	78	81	75	70	69	67	62	57	75
		Outlet	79	85	78	73	72	69	63	61	77
880	0.25	Inlet	83	88	83	77	75	74	70	64	82
		Outlet	85	93	85	81	79	76	73	66	85
	1	Inlet	81	86	81	75	73	72	68	62	80
		Outlet	82	89	83	79	77	75	73	63	83
	1.75	Inlet	80	82	77	71	70	69	63	59	76
		Outlet	80	86	79	74	73	71	65	63	79
940	0.25	Inlet	84	89	85	79	77	76	72	66	84
		Outlet	86	94	87	82	81	78	75	68	87
	1	Inlet	83	88	83	77	75	74	70	64	82
		Outlet	83	91	86	81	79	76	75	66	85
	2	Inlet	82	84	79	73	72	71	65	61	78
		Outlet	81	87	81	76	75	73	66	64	81
1000	0.25	Inlet	85	90	87	81	78	77	74	68	85
		Outlet	87	95	89	84	82	79	77	70	88
	1.25	Inlet	84	89	85	78	76	75	72	66	83
		Outlet	84	91	87	82	81	78	77	68	87
	2.25	Inlet	83	85	81	74	73	73	67	62	80
		Outlet	82	88	83	78	76	74	68	66	82

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{Wi}, L_{WA} and outlet L_{Wo}, L_{WA} sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

300 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
350	0.25	Inlet	64	63	58	57	55	50	43	35	59
		Outlet	73	69	61	61	59	50	43	36	63
410	0.25	Inlet	69	70	64	62	61	56	49	41	65
		Outlet	76	74	67	65	65	58	49	42	69
470	0.25	Inlet	73	75	70	65	65	61	54	46	69
		Outlet	77	80	72	68	69	64	55	47	73
	0.5	Inlet	70	72	66	63	62	58	52	44	66
		Outlet	74	77	70	66	65	59	51	44	70
530	0.25	Inlet	76	79	73	68	67	66	58	50	73
		Outlet	79	84	75	71	71	69	59	51	76
	0.5	Inlet	74	77	71	66	66	63	56	49	71
		Outlet	77	82	75	70	70	67	57	50	75
	0.75	Inlet	72	74	68	64	63	59	55	46	68
		Outlet	74	78	72	67	66	59	53	46	71
590	0.25	Inlet	78	82	76	70	70	69	61	54	76
		Outlet	80	88	78	74	73	72	63	55	79
	0.5	Inlet	78	81	75	69	69	67	60	53	74
		Outlet	78	85	77	73	73	71	62	53	78
	1	Inlet	76	76	70	66	65	61	57	50	70
		Outlet	76	81	74	69	68	62	56	50	73
650	0.25	Inlet	80	84	78	73	72	70	64	58	78
		Outlet	83	90	81	76	75	73	67	59	81
	0.75	Inlet	78	81	76	71	70	68	62	56	76
		Outlet	80	86	79	75	74	72	64	56	79
	1.25	Inlet	78	78	73	69	67	63	59	53	72
		Outlet	80	83	76	72	70	64	59	54	75
710	0.25	Inlet	82	86	80	75	74	72	67	60	80
		Outlet	85	92	83	79	77	75	70	62	83
	0.75	Inlet	81	85	79	74	72	70	65	59	78
		Outlet	82	88	82	77	76	74	68	59	82
	1.5	Inlet	80	81	75	70	69	66	61	56	74
		Outlet	82	86	78	74	72	67	62	57	77
770	0.25	Inlet	84	89	82	77	75	74	69	63	82
		Outlet	87	94	85	81	79	76	72	65	85
	1	Inlet	82	87	80	75	73	72	67	61	79
		Outlet	84	90	82	79	77	75	71	62	83
	1.75	Inlet	82	84	76	72	70	68	63	58	76
		Outlet	84	88	79	75	74	69	64	60	79
830	0.25	Inlet	85	90	85	79	77	76	72	65	84
		Outlet	88	95	87	83	81	78	75	67	87
	1	Inlet	84	90	82	77	75	74	70	64	82
		Outlet	85	91	85	81	79	77	74	64	85
	2	Inlet	83	85	78	73	72	70	65	60	78
		Outlet	84	89	81	77	75	72	66	63	81
890	0.25	Inlet	87	91	87	81	79	78	74	68	85
		Outlet	89	96	89	84	82	80	77	70	89
	1.25	Inlet	85	90	84	78	77	75	72	66	83
		Outlet	85	93	87	82	81	78	76	67	87
	2.25	Inlet	85	86	80	75	74	73	67	62	80
		Outlet	84	90	83	78	77	74	68	66	83
950	0.25	Inlet	88	93	89	82	80	79	76	70	87
		Outlet	89	98	91	86	84	81	79	72	90
	1.25	Inlet	87	92	87	80	79	77	74	68	85
		Outlet	86	94	89	84	83	80	79	69	89
	2.5	Inlet	86	87	82	76	75	75	69	64	82
		Outlet	84	91	84	79	78	76	70	68	84

330 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
350	0.25	Inlet	69	68	62	61	59	53	46	39	63
		Outlet	77	72	65	65	64	55	47	39	67
400	0.25	Inlet	73	73	67	64	64	59	51	43	68
		Outlet	80	77	70	68	68	61	52	44	71
	0.5	Inlet	69	69	63	61	59	55	48	40	64
		Outlet	75	74	67	64	61	54	47	40	66
450	0.25	Inlet	76	77	71	67	67	63	55	48	71
		Outlet	81	82	73	70	70	66	57	49	75
	0.5	Inlet	73	74	69	65	64	60	54	46	69
		Outlet	78	80	73	69	68	62	54	47	73
500	0.25	Inlet	78	80	74	69	69	66	59	52	74
		Outlet	82	85	76	73	72	70	60	52	77
	0.5	Inlet	77	78	72	68	68	65	58	50	73
		Outlet	80	83	76	72	72	68	58	51	76
	0.75	Inlet	75	75	70	66	65	61	56	48	70
		Outlet	77	80	73	69	68	62	55	49	73
550	0.25	Inlet	81	83	77	72	71	69	62	55	76
		Outlet	83	88	79	75	74	72	64	56	80
	0.5	Inlet	80	81	75	71	70	68	61	54	75
		Outlet	81	85	78	74	74	72	62	54	79
	1	Inlet	76	77	71	67	67	62	58	51	71
		Outlet	78	81	74	70	69	63	57	52	74
600	0.25	Inlet	82	85	79	74	73	71	65	58	79
		Outlet	85	90	81	77	76	74	67	59	82
	0.75	Inlet	80	83	76	72	71	69	63	56	76
		Outlet	82	87	80	75	75	73	65	56	80
	1.25	Inlet	79	79	73	69	68	64	60	53	73
		Outlet	80	83	76	72	71	65	60	55	76
650	0.25	Inlet	84	87	81	76	74	73	67	61	80
		Outlet	87	92	83	79	77	76	70	62	84
	0.75	Inlet	83	86	79	74	73	71	65	59	79
		Outlet	84	89	82	78	76	75	68	59	82
	1.5	Inlet	81	81	75	71	70	66	62	56	75
		Outlet	83	86	78	74	72	67	62	58	78
700	0.25	Inlet	85	89	82	78	76	74	69	63	82
		Outlet	89	93	85	81	79	77	72	64	85
	1	Inlet	84	87	79	75	74	72	67	61	80
		Outlet	86	90	83	79	78	76	70	61	83
	1.75	Inlet	83	84	76	72	71	68	63	58	77
		Outlet	85	88	80	76	74	69	64	61	80
750	0.25	Inlet	87	92	84	79	78	76	71	65	84
		Outlet	90	96	87	83	81	78	74	67	87
	1.25	Inlet	85	89	81	76	75	74	69	63	81
		Outlet	86	93	84	81	79	77	73	63	85
	2	Inlet	84	87	78	74	73	70	65	60	79
		Outlet	86	91	81	78	76	71	66	63	82
800	0.25	Inlet	88	93	86	81	79	78	74	67	86
		Outlet	91	97	89	85	83	80	76	69	89
	1.25	Inlet	87	91	84	78	77	75	71	65	83
		Outlet	87	94	86	83	81	79	75	66	87
	2.25	Inlet	86	88	80	75	74	72	67	62	80
		Outlet	87	91	83	79	77	73	68	65	83
850	1	Inlet	89	93	87	81	79	78	74	68	86
		Outlet	89	96	89	85	83	80	78	69	89
	1.75	Inlet	87	90	84	79	78	77	72	67	84
		Outlet	87	95	87	83	82	80	76	68	88
	2.5	Inlet	87	89	82	77	75	74	68	64	82
		Outlet	87	92	85	80	79	75	70	67	84

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{Wi}, L_{WA} and outlet L_{Wo}, L_{WA} sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

CPV Size 365 & 402 Sound Data

365 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
300	0.25	Inlet	68	66	62	59	56	51	45	39	61
		Outlet	74	72	66	63	57	50	43	37	64
350	0.25	Inlet	74	72	69	63	62	58	52	46	67
		Outlet	77	78	72	68	63	55	48	42	70
	0.5	Inlet	69	66	63	60	58	53	46	40	63
		Outlet	73	73	66	64	60	54	47	41	66
400	0.25	Inlet	77	76	73	67	65	62	56	51	71
		Outlet	81	82	76	72	69	62	55	49	75
	0.5	Inlet	75	73	69	65	63	59	52	46	68
		Outlet	79	79	73	70	66	59	52	46	72
450	0.25	Inlet	79	80	76	71	69	66	60	54	75
		Outlet	83	84	79	75	73	67	61	54	78
	0.5	Inlet	78	78	74	69	67	64	58	52	73
		Outlet	82	83	77	73	70	64	57	51	76
	0.75	Inlet	75	75	71	67	65	60	54	48	70
		Outlet	81	82	75	71	67	62	55	49	74
500	0.25	Inlet	81	84	79	74	71	69	64	58	78
		Outlet	85	87	82	78	76	72	66	59	81
	0.5	Inlet	80	82	78	73	70	68	63	57	76
		Outlet	84	86	81	77	74	69	63	56	80
	1	Inlet	76	78	73	69	67	63	58	52	72
		Outlet	81	84	76	72	69	64	58	53	75
550	0.25	Inlet	82	87	82	76	74	72	67	61	80
		Outlet	86	90	84	80	78	75	70	63	84
	0.75	Inlet	80	85	80	74	72	69	64	58	78
		Outlet	84	89	82	77	75	71	66	59	81
	1.25	Inlet	78	81	76	70	69	66	61	55	75
		Outlet	82	87	78	73	71	66	61	56	77
600	0.25	Inlet	83	89	85	78	76	75	70	64	83
		Outlet	87	93	86	81	80	78	74	66	86
	1	Inlet	81	87	82	75	73	71	66	60	80
		Outlet	84	92	84	78	76	73	68	62	83
	1.5	Inlet	80	84	79	72	71	68	63	58	77
		Outlet	82	92	81	74	73	69	63	59	80
650	0.25	Inlet	85	91	88	80	78	77	72	66	85
		Outlet	88	95	89	84	82	80	76	69	88
	1	Inlet	83	89	86	78	76	74	69	64	83
		Outlet	86	94	87	81	79	76	72	66	86
	1.75	Inlet	81	86	81	74	73	70	65	60	79
		Outlet	83	93	84	77	75	71	66	62	82
700	0.25	Inlet	86	92	90	83	80	79	74	69	87
		Outlet	90	96	91	86	84	82	78	72	90
	1.25	Inlet	84	90	87	80	77	75	71	66	84
		Outlet	87	95	89	83	81	78	73	67	87
	2.25	Inlet	86	87	84	78	75	72	68	62	81
		Outlet	87	93	86	80	78	74	68	64	84
750	0.25	Inlet	88	94	92	85	82	80	76	71	89
		Outlet	91	97	93	88	85	84	80	74	92
	1	Inlet	86	92	91	84	80	79	75	69	88
		Outlet	89	96	92	87	84	82	78	72	91
	2.5	Inlet	86	88	86	80	76	74	70	64	83
		Outlet	87	95	89	82	79	75	70	66	86
800	2	Inlet	85	91	90	83	79	77	73	68	87
		Outlet	88	97	93	86	82	79	74	69	90

402 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
250	0.25	Inlet	65	62	59	56	52	47	40	34	58
		Outlet	72	68	63	60	54	47	40	34	61
290	0.25	Inlet	71	69	65	61	59	54	48	42	64
		Outlet	76	74	69	65	60	52	45	39	67
330	0.25	Inlet	76	74	70	65	63	59	53	47	69
		Outlet	79	79	73	70	65	57	50	44	71
	0.5	Inlet	72	69	66	62	59	54	47	41	65
		Outlet	77	76	69	67	62	55	49	43	68
370	0.25	Inlet	79	77	74	68	67	63	57	51	72
		Outlet	82	83	77	73	70	63	56	50	75
	0.5	Inlet	77	74	71	66	64	60	53	47	69
		Outlet	81	81	74	71	67	59	53	47	73
	0.75	Inlet	75	71	68	65	62	58	51	45	68
		Outlet	77	76	69	67	64	58	52	46	69
410	0.25	Inlet	81	81	77	71	69	66	60	55	75
		Outlet	85	85	79	76	73	68	61	54	79
	0.5	Inlet	79	79	75	70	68	64	58	53	73
		Outlet	84	84	78	74	70	64	57	51	76
	0.75	Inlet	77	76	71	68	65	61	54	48	71
		Outlet	83	82	75	71	68	62	55	49	74
450	0.25	Inlet	83	84	79	74	72	69	64	58	78
		Outlet	86	87	82	78	76	72	66	59	81
	0.5	Inlet	81	83	78	73	71	68	62	57	77
		Outlet	85	86	81	77	74	69	62	56	80
	1	Inlet	78	78	73	69	67	63	57	52	72
		Outlet	83	83	76	72	69	64	58	53	75
490	0.25	Inlet	84	86	82	76	74	72	66	60	80
		Outlet	88	90	84	80	78	75	69	62	84
	0.75	Inlet	82	84	79	74	72	69	63	58	78
		Outlet	86	88	82	77	75	70	64	58	81
	1.25	Inlet	80	81	75	71	69	65	60	54	74
		Outlet	84	86	78	73	71	66	61	56	77
530	0.25	Inlet	85	89	84	78	76	74	69	63	82
		Outlet	89	92	86	81	80	78	73	65	86
	0.75	Inlet	83	87	83	76	74	72	67	61	81
		Outlet	87	91	84	80	78	74	69	63	84
	1.5	Inlet	82	83	78	73	71	68	63	57	77
		Outlet	85	89	80	75	73	68	63	59	79
570	0.25	Inlet	86	91	87	79	78	76	71	65	85
		Outlet	89	95	87	83	82	80	75	68	88
	1	Inlet	84	89	84	77	75	73	68	62	82
		Outlet	87	94	86	80	79	75	70	64	85
	1.75	Inlet	84	86	80	74	73	70	65	59	79
		Outlet	86	92	82	77	75	70	65	62	82
610	0.25	Inlet	87	93	89	81	79	78	73	67	86
		Outlet	90	97	90	85	83	82	77	70	90
	1	Inlet	85	91	87	79	78	76	71	65	84
		Outlet	88	95	88	83	81	78	74	67	87
	2	Inlet	86	88	82	76	74	72	67	61	81
		Outlet	87	94	84	79	77	72	67	63	84
650	0.25	Inlet	89	94	91	84	81	80	75	69	88
		Outlet	92	98	92	87	85	83	79	72	91
	1.25	Inlet	86	92	88	81	79	77	72	67	86
		Outlet	88	97	90	84	82	79	75	69	89
	2.25	Inlet	86	89	84	78	76	73	68	63	82
		Outlet	87	95	86	80	78	74	69	65	85

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{Wi}, L_{WA} and outlet L_{Wo}, L_{WA} sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

445 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
250	0.25	Inlet	70	67	63	60	57	52	46	40	62
		Outlet	76	72	67	64	57	50	44	38	65
290	0.25	Inlet	75	73	69	65	63	58	52	47	68
		Outlet	80	78	73	69	63	55	49	43	70
	0.5	Inlet	71	68	65	62	58	53	46	40	64
		Outlet	76	73	68	65	61	54	48	42	67
330	0.25	Inlet	80	77	73	68	67	63	57	51	72
		Outlet	83	82	77	73	69	62	55	49	75
	0.5	Inlet	77	74	70	66	64	59	53	47	69
		Outlet	82	80	74	71	66	59	52	46	72
	0.75	Inlet	76	72	69	66	62	58	51	45	68
		Outlet	77	75	69	67	64	58	52	46	69
370	0.25	Inlet	83	81	77	71	70	66	60	55	75
		Outlet	86	85	80	77	73	68	61	54	79
	0.5	Inlet	81	79	75	70	68	64	58	53	74
		Outlet	85	84	78	74	71	64	57	51	77
0.75	Inlet	79	76	72	68	66	61	54	48	71	
	Outlet	85	82	75	72	68	61	55	49	74	
410	0.25	Inlet	84	84	79	74	73	69	64	58	78
		Outlet	88	88	82	79	77	72	66	59	82
	0.5	Inlet	83	83	78	73	71	68	63	57	77
		Outlet	87	87	81	78	75	69	63	56	80
	1	Inlet	80	79	74	70	68	63	58	52	73
		Outlet	85	84	76	73	70	64	58	53	76
450	0.25	Inlet	86	87	82	77	75	72	67	61	81
		Outlet	90	90	84	81	79	76	70	63	84
	0.75	Inlet	84	85	80	75	73	69	64	58	79
		Outlet	88	89	82	78	76	71	65	59	81
1.25	Inlet	81	82	76	72	70	66	61	55	75	
	Outlet	86	86	78	74	71	66	61	57	78	
490	0.25	Inlet	87	90	85	79	77	75	70	64	83
		Outlet	91	93	86	83	81	78	73	66	87
	0.75	Inlet	85	88	83	77	75	73	68	62	82
		Outlet	89	92	85	81	79	76	71	64	85
1.5	Inlet	83	84	78	73	71	68	63	58	77	
	Outlet	87	90	80	76	73	69	64	60	80	
530	0.25	Inlet	88	92	87	81	79	77	72	66	86
		Outlet	92	95	88	84	83	81	76	69	89
	1	Inlet	86	90	85	78	77	74	69	64	83
		Outlet	89	94	87	82	80	77	72	65	86
1.75	Inlet	84	87	81	75	73	71	66	60	80	
	Outlet	88	93	83	77	75	71	66	62	82	
570	0.25	Inlet	90	95	90	83	81	80	74	68	88
		Outlet	93	98	91	86	85	83	78	71	91
	1.25	Inlet	87	92	87	80	78	76	71	65	85
		Outlet	90	97	89	83	81	78	73	67	88
2	Inlet	86	89	83	77	75	73	68	62	82	
	Outlet	88	96	85	79	77	73	68	64	85	
610	0.25	Inlet	91	96	92	85	83	82	76	71	90
		Outlet	94	100	93	88	86	85	81	73	93
	1.25	Inlet	89	94	90	82	80	79	74	68	87
		Outlet	91	99	91	86	84	81	77	70	90
	2.5	Inlet	90	91	86	80	77	75	70	64	84
		Outlet	90	97	87	82	80	75	70	67	87
650	1.75	Inlet	89	95	91	83	81	79	74	69	88
		Outlet	91	100	93	86	84	81	76	70	91
	2	Inlet	88	94	90	82	80	78	73	68	87
		Outlet	90	100	92	85	83	79	74	68	90
	2.5	Inlet	88	93	88	81	79	76	72	66	86
		Outlet	89	99	90	83	81	77	72	67	89

490 CPV

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
250	0.25	Inlet	74	72	67	64	61	56	50	44	67
		Outlet	79	76	71	67	61	53	47	41	69
280	0.25	Inlet	78	76	71	67	65	60	54	49	70
		Outlet	82	80	75	71	66	58	52	45	73
	0.5	Inlet	74	71	68	65	61	55	49	43	67
		Outlet	80	77	72	69	63	56	50	44	70
310	0.25	Inlet	81	79	74	70	68	64	58	52	73
		Outlet	85	83	78	75	70	64	57	50	76
	0.5	Inlet	79	76	72	68	65	61	54	49	71
		Outlet	84	81	75	72	67	60	54	48	74
	0.75	Inlet	76	73	69	66	63	58	52	46	68
		Outlet	80	76	71	69	65	59	53	47	70
340	0.25	Inlet	84	82	77	72	71	67	61	55	76
		Outlet	88	86	80	77	74	68	61	55	79
	0.5	Inlet	82	80	75	71	69	65	59	53	74
		Outlet	86	84	78	75	71	64	58	52	77
	0.75	Inlet	80	77	72	69	66	61	55	49	72
		Outlet	86	82	76	73	69	62	56	50	75
370	0.25	Inlet	86	85	79	75	73	69	64	58	78
		Outlet	90	88	82	79	77	72	65	58	82
	0.5	Inlet	85	83	78	74	72	68	62	57	77
		Outlet	89	87	81	78	75	69	62	56	80
	1	Inlet	81	78	73	70	68	63	57	52	73
		Outlet	87	83	76	73	70	64	58	53	76
400	0.25	Inlet	87	87	81	77	75	72	66	60	81
		Outlet	91	90	84	81	79	75	69	62	84
	0.75	Inlet	85	84	79	74	72	69	63	58	78
		Outlet	90	88	82	78	75	70	64	58	81
	1.25	Inlet	82	81	75	72	70	66	60	54	75
		Outlet	88	85	77	74	71	66	61	57	77
430	0.25	Inlet	88	89	84	79	77	74	68	63	83
		Outlet	92	92	86	83	81	78	72	64	86
	1	Inlet	85	86	80	75	73	70	64	59	79
		Outlet	91	90	82	78	75	71	65	59	82
	1.5	Inlet	84	83	78	74	71	68	62	57	77
		Outlet	89	87	80	76	73	68	64	60	79
460	0.25	Inlet	89	91	86	80	79	76	71	65	85
		Outlet	93	94	87	84	82	80	74	67	88
	1	Inlet	87	89	83	78	76	73	67	62	82
		Outlet	91	92	85	81	79	75	69	63	84
	1.75	Inlet	86	85	80	76	73	70	64	59	79
		Outlet	91	90	82	78	75	70	66	62	81
490	0.25	Inlet	90	93	88	82	80	78	73	67	86
		Outlet	94	96	89	86	84	82	76	69	90
	1	Inlet	88	91	86	80	78	75	70	64	84
		Outlet	92	95	88	83	81	78	73	66	87
	2	Inlet	88	87	82	77	75	71	66	61	81
		Outlet	91	92	84	80	77	72	67	64	83
520	0.25	Inlet	92	95	90	83	82	80	75	69	88
		Outlet	95	98	91	87	86	83	78	71	91
	1.25	Inlet	89	93	87	81	79	76	71	66	85
		Outlet	92	97	89	84	82	78	73	67	88
	2.5	Inlet	90	89	84	79	76	73	68	63	83
		Outlet	92	94	85	82	79	74	69	65	85
550	0.5	Inlet	92	96	91	84	83	81	76	70	89
		Outlet	95	99	92	88	86	84	80	72	92
	1.5	Inlet	90	94	89	82	80	77	72	67	86
		Outlet	92	98	90	85	83	79	74	68	89
	2.5	Inlet	91	91	86	80	78	75	70	64	84
		Outlet	93	96	87	83	80	75	70	67	87

CPS & CPA Size 60 - 100 Sound Data

60 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
2240	1	Inlet	77	85	82	77	71	62	57	51	79
		Outlet	94	91	85	83	77	72	64	55	84
2680	1	Inlet	80	88	87	82	76	68	64	57	83
		Outlet	94	93	89	88	83	79	71	61	89
	1.5	Inlet	81	89	87	81	75	66	62	56	83
		Outlet	96	94	89	87	82	77	70	61	88
3120	1	Inlet	83	92	91	84	80	71	68	61	87
		Outlet	97	96	92	92	86	83	76	66	93
	2	Inlet	84	93	91	84	79	70	67	61	87
		Outlet	98	96	92	91	85	82	75	66	92
3560	1	Inlet	83	93	95	90	86	77	73	67	92
		Outlet	99	99	96	95	91	88	82	72	97
	2	Inlet	86	95	95	89	84	76	71	66	91
		Outlet	99	99	96	95	90	87	80	71	96
	3	Inlet	88	95	95	89	83	74	70	65	91
		Outlet	100	99	96	94	89	85	78	70	95
4000	1	Inlet	84	94	99	94	89	82	76	71	96
		Outlet	102	102	99	98	95	91	86	77	100
	2	Inlet	87	96	99	94	88	81	75	70	95
		Outlet	101	102	99	97	94	90	85	76	99
	4	Inlet	90	97	98	93	86	78	73	69	94
		Outlet	102	102	99	97	93	88	82	74	98

80 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
1700	1	Inlet	64	75	72	62	61	59	50	45	68
		Outlet	80	81	72	69	63	59	53	46	71
2180	1	Inlet	68	79	79	75	70	66	59	52	77
		Outlet	84	86	80	79	75	71	63	53	80
	1.5	Inlet	68	78	77	72	67	65	58	52	74
		Outlet	83	85	79	76	72	68	61	53	78
2660	1	Inlet	74	82	82	82	76	72	67	59	82
		Outlet	89	87	84	85	81	78	71	60	86
	2	Inlet	75	81	80	79	73	69	64	57	79
		Outlet	87	86	83	82	78	75	68	59	83
3140	1	Inlet	77	87	85	85	81	76	73	65	86
		Outlet	93	90	86	89	85	84	78	67	91
	2	Inlet	80	86	84	83	79	74	70	63	85
		Outlet	92	89	85	88	84	82	76	65	89
	3	Inlet	82	86	82	80	77	72	68	62	82
		Outlet	91	89	84	85	81	79	74	64	87
3620	1	Inlet	79	89	90	89	86	81	77	71	91
		Outlet	96	94	90	92	90	87	83	73	95
	2	Inlet	81	89	89	88	85	80	75	69	90
		Outlet	95	93	90	91	89	86	82	71	94
	4	Inlet	84	89	87	84	81	76	72	66	86
		Outlet	94	92	88	88	85	82	78	69	90
4100	1	Inlet	81	91	94	93	90	85	81	75	95
		Outlet	99	97	94	94	94	91	87	78	98
	3	Inlet	84	92	93	91	88	83	78	72	93
		Outlet	97	96	93	93	92	89	85	76	96
	5	Inlet	86	92	91	88	85	80	75	70	90
		Outlet	96	96	92	91	89	86	82	74	94

70 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
2160	1	Inlet	76	83	81	76	71	62	56	50	78
		Outlet	93	92	84	82	75	69	62	53	83
	1.5	Inlet	74	81	80	74	68	60	56	52	76
		Outlet	91	89	82	79	72	67	61	54	81
2620	1	Inlet	78	88	87	82	77	69	63	56	83
		Outlet	94	97	90	87	82	76	69	59	89
	2	Inlet	78	86	86	81	75	67	62	57	82
		Outlet	96	94	88	85	79	74	67	59	87
3080	1	Inlet	78	93	92	84	82	73	69	61	88
		Outlet	96	101	93	92	86	82	75	65	93
	2	Inlet	79	92	91	83	80	71	67	61	87
		Outlet	96	100	92	91	85	81	73	64	92
	3	Inlet	82	89	89	82	78	69	67	62	85
		Outlet	99	95	90	90	82	78	72	65	90
3540	1	Inlet	80	94	96	90	86	78	73	66	92
		Outlet	98	102	98	95	91	87	80	71	97
	2	Inlet	81	94	96	89	85	77	72	65	92
		Outlet	98	103	98	95	90	85	78	69	96
	4	Inlet	85	91	93	88	83	74	70	66	89
		Outlet	102	99	94	93	86	81	76	69	93
4000	1	Inlet	82	95	100	95	90	83	77	71	96
		Outlet	100	104	101	98	94	90	84	75	100
	3	Inlet	83	95	100	94	88	81	75	69	95
		Outlet	101	105	101	97	93	88	82	73	99
	5	Inlet	86	94	97	93	87	79	73	70	93
		Outlet	104	103	98	95	91	85	80	73	97

100 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10-12 WATTS								LwA
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
1700	1	Inlet	64	74	72	62	60	54	51	46	67
		Outlet	79	79	72	67	61	58	52	45	70
2160	1	Inlet	67	77	79	74	69	63	58	53	76
		Outlet	84	85	79	76	70	66	60	52	77
	1.5	Inlet	68	77	76	71	66	61	57	52	73
		Outlet	83	84	78	74	68	64	59	52	76
2620	1	Inlet	77	82	82	82	76	70	65	60	82
		Outlet	89	87	83	82	76	72	66	59	83
	2	Inlet	78	82	79	77	72	67	62	57	78
		Outlet	88	87	82	80	74	70	64	58	81
3080	1	Inlet	83	89	84	84	82	74	71	66	86
		Outlet	94	91	84	88	81	77	72	65	88
	2	Inlet	86	89	82	82	80	73	68	63	84
		Outlet	93	90	84	86	79	76	70	63	86
	3	Inlet	88	90	81	79	76	70	66	62	82
		Outlet	92	91	83	84	77	74	69	63	85
3540	1	Inlet	85	92	89	88	86	79	75	70	90
		Outlet	96	95	89	91	86	81	77	70	92
	2	Inlet	87	93	88	87	85	78	73	68	89
		Outlet	95	94	88	89	85	80	75	68	90
	4	Inlet	91	94	87	83	80	75	70	66	86
		Outlet	95	94	88	87	82	77	73	67	88
4000	1	Inlet	86	94	94	91	89	83	79	74	94
		Outlet	99	98	93	93	90	85	81	75	95
	3	Inlet	90	96	92	89	87	82	76	71	92
		Outlet	98	97	92	91	88	83	78	72	93
	5	Inlet	93	97	92	86	83	78	74	69	90
		Outlet	96	97	92	89	86	81	76	71	91

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{Wi}, L_{WA} and outlet L_{Wo}. L_{WA} sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

120 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
1800	1	Inlet	66	75	80	72	66	62	62	54	75
		Outlet	82	81	82	73	68	65	60	52	77
2160	1	Inlet	72	79	84	81	74	69	68	65	82
		Outlet	87	85	85	81	75	72	68	63	82
	2	Inlet	71	78	80	76	70	66	64	61	78
		Outlet	83	82	83	77	71	68	63	58	79
2520	1	Inlet	78	82	86	87	79	75	73	73	87
		Outlet	92	87	87	86	80	77	73	70	87
	2	Inlet	77	81	84	84	76	71	69	68	84
		Outlet	88	85	86	84	78	74	69	65	85
2880	1	Inlet	84	86	87	91	83	79	77	78	90
		Outlet	100	88	89	89	84	81	78	76	90
	2	Inlet	83	86	86	89	81	76	73	75	89
		Outlet	94	86	88	87	83	79	74	72	89
	4	Inlet	85	87	85	83	78	73	70	68	84
		Outlet	92	85	84	83	78	75	69	66	84
3240	1	Inlet	87	90	90	93	87	82	80	81	93
		Outlet	104	92	91	91	87	85	81	79	93
	3	Inlet	87	89	88	91	85	79	75	76	91
		Outlet	95	88	90	89	85	82	76	74	91
	5	Inlet	89	91	88	86	81	77	73	71	87
		Outlet	95	88	86	86	81	78	72	69	87
3600	1	Inlet	89	93	93	95	90	85	83	84	96
		Outlet	106	96	93	93	90	87	85	82	96
	3	Inlet	89	92	92	94	89	83	79	80	94
		Outlet	100	93	92	92	89	86	80	78	94
	6	Inlet	90	93	91	89	85	80	76	74	91
		Outlet	96	91	89	89	84	81	76	72	90
3960	1	Inlet	90	95	96	97	94	88	85	86	98
		Outlet	107	100	95	96	93	90	87	85	98
	3	Inlet	90	95	95	96	92	86	83	83	97
		Outlet	104	98	94	95	92	89	84	81	97
	6	Inlet	90	93	93	94	89	83	79	78	94
		Outlet	97	94	93	93	89	86	80	76	94
4320	1	Inlet	92	98	98	99	97	90	88	88	101
		Outlet	109	104	97	98	95	92	90	87	101
	4	Inlet	92	97	97	97	95	88	84	84	99
		Outlet	104	100	96	96	94	91	86	83	99
	8	Inlet	92	97	96	95	91	85	81	79	96
		Outlet	99	97	94	94	91	87	82	77	96

135 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
1500	1	Inlet	68	76	80	69	64	61	59	52	74
		Outlet	80	80	82	71	66	63	57	50	76
1820	1	Inlet	73	80	85	78	72	68	67	62	80
		Outlet	86	85	86	78	73	70	66	60	81
	1.5	Inlet	71	79	83	75	69	65	65	59	78
		Outlet	84	83	85	76	71	68	63	57	80
2140	1	Inlet	78	83	88	85	78	74	73	72	86
		Outlet	91	87	88	84	79	76	72	69	86
	2	Inlet	76	82	85	81	75	70	69	66	82
		Outlet	87	85	86	82	76	72	68	63	83
2460	1	Inlet	84	86	89	89	82	78	77	78	90
		Outlet	97	89	89	88	83	80	77	75	89
	2	Inlet	83	86	87	88	80	75	74	74	88
		Outlet	92	88	89	87	82	78	73	71	88
	3	Inlet	82	85	86	85	78	73	71	70	85
		Outlet	89	86	88	85	79	75	70	67	86
2780	1	Inlet	88	90	90	93	85	81	80	82	93
		Outlet	103	90	91	91	86	84	81	79	93
	2	Inlet	88	89	89	92	84	80	77	79	92
		Outlet	99	89	91	90	86	83	77	76	91
	4	Inlet	88	88	88	87	81	77	73	73	88
		Outlet	93	87	89	87	82	79	72	70	88
3100	1	Inlet	91	93	93	96	89	84	83	84	96
		Outlet	107	94	94	94	89	87	84	82	96
	3	Inlet	91	92	91	95	87	82	79	80	94
		Outlet	100	91	93	92	88	85	79	77	94
	5	Inlet	91	91	91	91	84	79	76	75	91
		Outlet	96	89	91	90	85	82	75	73	91
3420	1	Inlet	92	96	96	98	92	87	85	87	98
		Outlet	108	98	96	96	92	90	87	85	98
	3	Inlet	92	95	94	97	91	85	82	83	97
		Outlet	104	95	95	95	91	88	83	81	97
	6	Inlet	92	94	94	93	88	82	79	78	94
		Outlet	98	93	93	92	88	85	78	75	94
3740	1	Inlet	94	99	98	100	95	90	88	89	101
		Outlet	110	102	98	98	95	92	90	87	101
	4	Inlet	94	98	97	98	94	88	84	84	99
		Outlet	104	98	96	97	93	90	85	82	99
	8	Inlet	95	98	97	94	90	84	81	79	96
		Outlet	100	96	94	93	89	86	81	77	95

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{Wi}, L_WA and outlet L_{Wo}, L_WA sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

CPS & CPA Size 150 & 165 Sound Data

150 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
1400	1	Inlet	69	72	78	70	64	66	60	51	74
		Outlet	80	74	79	72	69	68	58	52	75
1680	1	Inlet	74	78	83	77	71	72	69	62	80
		Outlet	85	81	84	79	75	74	68	61	82
	2	Inlet	74	75	79	73	67	67	63	57	75
		Outlet	83	77	79	74	70	69	64	61	77
1960	1	Inlet	78	82	85	83	77	77	77	74	85
		Outlet	90	86	86	85	80	78	76	72	87
	2	Inlet	75	79	82	80	74	74	71	64	82
		Outlet	85	82	83	82	78	76	70	63	84
2240	1	Inlet	82	85	87	87	81	80	81	82	89
		Outlet	94	88	89	90	84	82	80	80	91
	2	Inlet	80	82	85	85	79	78	77	72	87
		Outlet	90	86	87	87	84	80	77	70	89
	3	Inlet	78	80	83	83	76	76	75	68	84
		Outlet	86	83	84	84	81	78	74	67	86
2520	1	Inlet	85	88	90	89	84	83	83	86	92
		Outlet	97	91	91	94	88	85	83	84	95
	2	Inlet	84	86	89	88	82	82	82	81	90
		Outlet	94	89	90	91	87	84	81	78	93
	4	Inlet	82	83	85	84	79	78	78	71	86
		Outlet	89	84	86	86	84	80	78	72	89
2800	1	Inlet	87	91	93	91	87	86	86	88	95
		Outlet	99	94	93	95	92	88	86	87	97
	3	Inlet	85	88	90	89	85	83	83	80	92
		Outlet	95	91	92	91	90	86	83	78	94
	5	Inlet	84	86	88	86	82	80	80	75	89
		Outlet	91	87	88	87	86	83	80	76	91
3080	1	Inlet	89	93	95	93	90	88	88	90	97
		Outlet	101	97	95	97	95	91	88	89	100
	3	Inlet	87	91	93	92	89	86	86	85	95
		Outlet	98	95	94	95	93	89	86	83	98
	6	Inlet	85	88	90	88	85	83	82	78	91
		Outlet	92	90	90	89	89	86	83	78	93
3360	1	Inlet	90	96	98	96	93	90	90	92	99
		Outlet	102	100	97	99	97	93	91	91	102
	4	Inlet	89	93	95	94	91	88	88	86	97
		Outlet	98	97	95	96	95	91	88	84	99
	8	Inlet	90	93	92	90	86	83	83	79	92
		Outlet	95	93	90	90	87	84	84	84	94

165 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS									L _{wi} A
			OCTAVE BANDS									
			1	2	3	4	5	6	7	8		
1300	1	Inlet	71	75	78	71	66	67	60	52	75	
		Outlet	80	76	80	73	70	68	59	52	77	
1560	1	Inlet	76	80	84	78	72	74	71	63	81	
		Outlet	87	81	86	80	76	76	69	62	83	
	2	Inlet	75	77	81	73	68	69	64	58	77	
		Outlet	84	77	81	75	72	70	65	61	78	
1820	1	Inlet	80	83	86	83	78	78	78	76	86	
		Outlet	91	86	88	86	81	79	77	74	88	
	2	Inlet	78	81	84	81	75	75	72	65	83	
		Outlet	86	83	85	83	79	77	71	64	85	
2060	1	Inlet	84	87	88	87	82	81	82	84	90	
		Outlet	95	89	90	91	85	83	81	82	92	
	2	Inlet	82	84	87	86	80	80	79	74	88	
		Outlet	91	87	89	88	85	82	78	72	90	
	3	Inlet	80	82	85	83	78	78	76	69	85	
		Outlet	87	84	86	85	82	79	75	68	87	
2340	1	Inlet	87	90	92	91	85	84	85	88	94	
		Outlet	98	91	93	95	89	86	84	86	96	
	2	Inlet	86	88	90	90	83	83	83	83	92	
		Outlet	96	90	92	93	88	85	82	80	94	
	4	Inlet	83	84	87	86	80	80	79	72	88	
		Outlet	90	85	88	88	86	82	79	71	90	
2600	1	Inlet	89	93	94	93	88	87	87	90	96	
		Outlet	101	95	95	97	92	89	87	88	98	
	3	Inlet	88	90	92	91	86	85	85	82	93	
		Outlet	97	92	94	93	91	87	84	79	96	
	5	Inlet	85	87	89	88	83	82	82	76	90	
		Outlet	92	88	90	90	88	84	81	75	93	
2860	1	Inlet	91	95	97	95	91	89	89	92	98	
		Outlet	103	98	97	99	95	92	89	90	101	
	3	Inlet	90	93	95	93	89	88	87	87	96	
		Outlet	100	96	96	97	94	90	87	85	99	
	6	Inlet	87	89	92	90	86	84	84	79	93	
		Outlet	94	91	92	91	91	87	84	78	95	
3120	1	Inlet	93	97	99	97	94	91	91	94	101	
		Outlet	104	101	99	100	98	94	92	92	103	
	4	Inlet	91	95	96	95	92	89	89	88	98	
		Outlet	100	98	97	97	96	92	89	86	100	
	8	Inlet	91	94	94	91	88	85	84	80	94	
		Outlet	96	93	92	92	91	88	86	84	96	

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International 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 B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

180 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
1100	1	Inlet	69	70	72	68	64	60	54	49	70
		Outlet	77	76	77	71	68	62	58	55	74
1340	1	Inlet	77	75	80	75	71	69	63	58	78
		Outlet	86	80	84	78	76	70	64	60	81
	1.5	Inlet	76	73	78	74	69	66	60	54	76
		Outlet	84	77	84	76	74	68	63	60	80
1580	1	Inlet	82	79	84	80	75	73	68	63	82
		Outlet	91	83	88	82	80	75	68	64	85
	2	Inlet	81	77	82	78	74	71	65	60	80
		Outlet	89	81	88	81	79	73	67	65	84
1820	1	Inlet	84	86	88	86	81	79	75	69	88
		Outlet	96	91	92	90	85	82	77	73	91
	2	Inlet	85	84	86	84	79	76	72	67	85
		Outlet	92	87	90	88	84	79	73	69	89
	3	Inlet	84	83	83	82	77	74	69	63	83
		Outlet	92	87	89	86	82	78	72	69	87
2060	1	Inlet	87	89	90	90	85	83	79	73	91
		Outlet	100	97	94	96	89	86	82	78	96
	2	Inlet	87	89	88	89	83	81	77	72	90
		Outlet	96	93	92	94	88	84	79	75	94
	4	Inlet	87	89	86	85	80	77	72	67	86
		Outlet	95	92	90	90	86	82	76	73	91
2300	1	Inlet	90	92	92	93	87	86	83	77	94
		Outlet	105	102	95	101	93	89	86	82	100
	3	Inlet	91	93	89	91	85	83	79	74	92
		Outlet	97	93	92	98	91	87	81	77	97
	5	Inlet	91	93	88	88	83	81	76	71	89
		Outlet	98	96	92	94	90	86	79	76	95
2540	1	Inlet	92	94	94	96	90	88	86	80	97
		Outlet	108	105	97	105	96	91	89	85	104
	3	Inlet	93	95	92	94	88	87	83	78	95
		Outlet	102	99	95	102	95	90	85	81	101
	6	Inlet	93	97	91	90	85	84	78	73	92
		Outlet	100	99	95	96	93	89	82	79	98
2780	1	Inlet	93	97	96	97	93	91	89	83	99
		Outlet	109	107	100	106	99	94	91	88	106
	4	Inlet	94	98	95	96	91	89	85	80	97
		Outlet	102	99	96	103	97	93	87	83	103
	8	Inlet	95	99	94	91	87	85	81	77	94
		Outlet	102	100	97	98	95	91	85	81	100

195 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
1000	1	Inlet	68	71	72	68	64	59	53	48	70
		Outlet	76	78	76	71	67	62	58	55	73
1240	1	Inlet	78	77	81	76	72	69	64	58	78
		Outlet	86	82	84	79	76	70	64	61	81
	1.5	Inlet	76	75	78	74	70	66	60	55	76
		Outlet	84	79	84	76	74	68	63	61	80
1480	1	Inlet	83	80	86	80	76	74	69	63	83
		Outlet	92	84	90	83	81	75	69	65	86
	2	Inlet	83	78	84	79	75	72	66	61	81
		Outlet	91	82	90	81	80	74	68	65	85
1720	1	Inlet	86	87	89	87	82	80	75	70	89
		Outlet	97	91	95	91	86	83	79	74	93
	2	Inlet	87	85	87	85	80	78	73	68	87
		Outlet	93	88	92	89	85	80	74	70	90
	3	Inlet	86	84	85	83	78	75	70	64	84
		Outlet	93	88	91	87	83	79	73	70	89
1960	1	Inlet	89	91	91	91	86	84	80	74	92
		Outlet	102	98	96	97	90	87	83	79	97
	2	Inlet	89	90	90	90	85	82	78	73	91
		Outlet	98	94	94	95	89	85	80	76	96
	4	Inlet	89	90	87	86	82	79	73	68	88
		Outlet	96	93	92	91	87	83	77	74	93
2200	1	Inlet	92	94	93	94	88	87	83	78	95
		Outlet	107	104	97	102	94	90	86	83	101
	3	Inlet	93	94	91	93	87	85	81	76	94
		Outlet	99	95	94	99	93	88	82	79	99
	5	Inlet	93	95	90	88	83	81	76	73	90
		Outlet	99	96	94	95	91	87	80	77	96
2440	1	Inlet	94	96	96	98	91	90	88	82	98
		Outlet	109	106	98	106	97	93	90	86	105
	3	Inlet	95	97	94	96	90	89	85	79	97
		Outlet	105	102	97	104	96	92	87	83	103
	6	Inlet	96	98	92	93	87	86	80	75	94
		Outlet	101	101	97	98	94	90	84	81	99
2680	1	Inlet	96	99	98	99	94	92	90	85	101
		Outlet	111	108	101	108	100	96	93	89	108
	4	Inlet	97	99	96	98	92	90	87	82	99
		Outlet	105	103	99	105	99	94	89	85	105
	8	Inlet	97	101	95	94	89	87	82	78	96
		Outlet	103	102	99	100	97	93	87	83	101

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International 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 B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

CPS & CPA Size 210 & 225 Sound Data

210 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS									L _{Wi} A
			OCTAVE BANDS									
			1	2	3	4	5	6	7	8		
1000	1	Inlet	72	77	76	71	70	66	59	52	75	
		Outlet	80	89	79	74	74	69	59	51	79	
1240	1	Inlet	78	81	82	77	75	73	67	60	81	
		Outlet	85	88	87	80	78	75	68	59	84	
	2	Inlet	74	76	77	71	71	69	63	58	76	
		Outlet	81	84	82	75	73	70	63	56	79	
1360	1	Inlet	82	83	87	80	79	78	74	66	85	
		Outlet	90	87	91	84	82	80	75	65	88	
	2	Inlet	80	80	84	78	76	74	68	61	82	
		Outlet	87	86	91	83	80	77	70	60	86	
1540	1	Inlet	86	84	90	83	82	82	79	72	88	
		Outlet	94	88	93	88	86	83	81	71	91	
	2	Inlet	85	82	88	81	80	79	74	67	86	
		Outlet	92	87	93	87	84	81	76	67	90	
	3	Inlet	84	80	86	78	77	77	70	65	83	
		Outlet	90	85	91	84	82	79	72	64	88	
1720	1	Inlet	88	88	92	87	85	84	82	76	92	
		Outlet	96	92	95	91	89	86	84	76	94	
	2	Inlet	87	86	91	86	83	83	79	73	90	
		Outlet	95	91	95	91	88	85	81	72	93	
	4	Inlet	85	83	87	81	79	79	73	68	85	
		Outlet	91	87	92	87	83	81	75	68	89	
1900	1	Inlet	90	91	94	91	87	87	85	80	94	
		Outlet	98	95	96	94	91	89	87	80	97	
	3	Inlet	89	89	92	89	85	84	81	74	91	
		Outlet	96	93	96	93	90	87	82	74	95	
	5	Inlet	86	86	88	84	81	81	76	71	87	
		Outlet	92	90	92	89	85	83	78	71	91	
2080	1	Inlet	92	94	96	94	90	89	88	83	97	
		Outlet	100	98	98	97	94	91	89	83	99	
	3	Inlet	90	92	94	92	88	87	84	78	94	
		Outlet	98	96	97	97	92	90	86	79	98	
	6	Inlet	88	89	90	87	83	83	79	74	90	
		Outlet	94	93	93	92	88	85	80	74	94	
2260	1	Inlet	94	97	97	97	92	91	90	86	99	
		Outlet	101	101	99	100	96	93	91	87	102	
	4	Inlet	92	95	94	95	89	88	86	80	96	
		Outlet	99	99	98	99	94	91	88	81	100	
	8	Inlet	95	98	95	92	86	84	81	76	94	
		Outlet	98	98	96	94	89	87	82	76	96	

225 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{Wi} A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
950	1	Inlet	74	79	77	72	71	67	59	53	76
		Outlet	81	90	79	75	75	70	60	52	80
1100	1	Inlet	78	82	82	77	76	73	67	60	81
		Outlet	85	89	86	80	79	76	68	59	84
	2	Inlet	75	77	77	72	71	69	63	58	76
		Outlet	82	85	81	75	74	70	63	56	79
1250	1	Inlet	82	84	86	80	79	78	73	65	85
		Outlet	89	89	91	84	82	80	74	64	88
	2	Inlet	80	81	84	78	76	74	67	60	82
		Outlet	87	88	90	82	80	76	68	59	86
1400	1	Inlet	85	85	90	83	82	81	78	70	88
		Outlet	93	88	93	87	85	82	79	69	91
	2	Inlet	85	82	88	81	79	78	73	66	85
		Outlet	92	87	93	86	84	80	75	65	89
	3	Inlet	83	80	84	77	76	76	69	64	82
		Outlet	89	85	90	83	81	77	71	63	86
1550	1	Inlet	89	87	93	86	84	84	82	74	91
		Outlet	96	91	96	90	88	85	83	74	94
	2	Inlet	88	85	91	84	83	82	78	71	89
		Outlet	95	89	95	89	87	84	80	70	93
	4	Inlet	85	82	86	78	77	78	72	67	84
		Outlet	90	85	91	84	82	79	73	67	88
1700	1	Inlet	91	90	94	89	87	86	84	78	94
		Outlet	98	94	97	93	91	88	86	78	96
	3	Inlet	89	87	92	87	84	83	79	72	90
		Outlet	96	92	96	92	89	86	81	72	94
	5	Inlet	90	88	89	83	80	80	75	70	87
		Outlet	93	89	93	87	84	81	75	69	90
1850	1	Inlet	93	93	96	92	89	88	87	81	96
		Outlet	100	97	98	96	93	90	88	81	99
	3	Inlet	91	91	94	90	87	86	83	76	93
		Outlet	98	95	97	95	91	88	84	76	97
	6	Inlet	92	92	92	87	82	82	77	72	90
		Outlet	96	93	94	90	86	83	78	72	92
2000	1	Inlet	94	96	97	95	91	90	89	84	98
		Outlet	101	99	100	98	95	92	90	84	101
	3	Inlet	92	94	95	93	89	88	86	80	96
		Outlet	100	97	98	97	93	91	87	80	99
	6	Inlet	90	91	92	89	85	84	80	75	92
		Outlet	96	94	96	94	90	87	82	75	96
2150	1	Inlet	96	98	99	98	93	92	91	86	100
		Outlet	103	102	101	100	97	94	92	87	103
	4	Inlet	94	96	96	95	90	89	87	81	97
		Outlet	101	99	99	100	95	92	89	82	101
	8	Inlet	94	96	94	91	86	85	82	77	93
		Outlet	98	97	96	95	90	87	83	77	96

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International 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 B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

245 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
900	1	Inlet	76	80	79	73	69	67	62	57	76
		Outlet	78	85	83	77	73	68	62	58	80
1040	1	Inlet	80	83	85	78	74	71	67	61	81
		Outlet	82	88	90	82	78	73	68	63	85
	2	Inlet	76	79	80	73	70	67	64	60	77
		Outlet	78	84	86	79	75	70	65	62	82
1180	1	Inlet	84	84	92	81	77	75	70	65	86
		Outlet	86	89	96	86	83	77	73	67	90
	2	Inlet	81	82	87	78	75	72	68	64	82
		Outlet	83	88	95	84	80	74	69	66	89
1320	1	Inlet	86	87	94	86	81	78	74	69	89
		Outlet	89	91	98	90	86	81	77	71	93
	2	Inlet	85	85	92	83	79	76	72	68	87
		Outlet	86	91	99	89	85	78	72	69	93
	3	Inlet	82	84	88	80	76	74	70	66	84
		Outlet	83	88	96	87	82	77	71	68	90
1460	1	Inlet	88	90	96	90	84	81	77	72	92
		Outlet	90	93	99	94	89	84	80	75	96
	2	Inlet	87	89	95	88	82	79	76	71	90
		Outlet	89	93	101	94	88	82	77	73	96
	4	Inlet	83	86	88	83	78	76	72	69	85
		Outlet	85	89	96	90	84	79	74	70	92
1600	1	Inlet	90	93	97	93	86	84	80	75	94
		Outlet	92	95	100	97	91	87	83	78	98
	3	Inlet	88	91	95	90	84	81	78	73	92
		Outlet	89	94	102	97	90	84	78	74	98
	5	Inlet	84	88	90	86	80	78	75	71	88
		Outlet	86	90	97	93	87	82	76	73	94
1740	1	Inlet	91	95	99	97	89	86	83	78	97
		Outlet	94	97	101	100	94	90	86	81	100
	3	Inlet	90	94	97	94	87	84	80	76	95
		Outlet	91	95	103	100	93	88	81	77	100
	6	Inlet	86	90	91	89	82	80	77	73	90
		Outlet	87	91	98	96	89	84	79	75	96
1880	1	Inlet	93	97	99	100	91	88	85	81	99
		Outlet	95	98	102	102	96	92	88	84	103
	3	Inlet	92	96	98	98	89	86	83	79	98
		Outlet	93	97	103	103	95	91	85	80	103
	6	Inlet	89	93	94	93	86	83	80	76	93
		Outlet	90	94	100	100	92	88	82	77	100

270 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
700	1	Inlet	73	76	72	66	64	61	56	52	70
		Outlet	74	81	75	71	68	63	57	54	74
850	1	Inlet	78	83	81	74	71	69	63	58	78
		Outlet	81	88	85	79	75	70	64	60	82
	1.5	Inlet	76	80	78	72	69	66	62	57	75
		Outlet	78	85	82	77	73	68	63	60	79
1000	1	Inlet	83	86	88	79	76	73	69	63	83
		Outlet	85	91	92	84	80	75	70	65	88
	2	Inlet	80	82	83	76	73	70	66	62	80
		Outlet	82	88	90	82	78	72	67	64	85
1150	1	Inlet	87	87	94	84	80	77	73	68	88
		Outlet	89	92	98	88	85	80	76	69	92
	2	Inlet	85	85	91	81	78	75	71	66	86
		Outlet	86	92	98	87	83	77	71	69	92
	3	Inlet	82	83	87	78	75	73	69	65	82
		Outlet	84	89	94	85	81	75	70	67	89
1300	1	Inlet	90	90	97	88	84	81	77	72	92
		Outlet	91	94	100	92	89	84	80	74	96
	2	Inlet	89	89	96	86	82	79	76	71	90
		Outlet	89	94	102	92	88	81	76	72	96
	4	Inlet	85	86	89	82	78	76	72	68	85
		Outlet	85	90	97	88	84	78	73	70	92
1450	1	Inlet	92	94	99	93	87	84	81	75	95
		Outlet	93	96	102	96	92	87	84	78	99
	3	Inlet	90	91	96	90	84	81	78	73	92
		Outlet	90	95	104	96	90	84	78	75	98
	5	Inlet	86	89	91	85	81	78	75	71	88
		Outlet	87	92	99	92	87	82	77	73	94
1600	1	Inlet	93	96	101	96	90	87	84	79	98
		Outlet	95	98	103	100	94	90	87	81	101
	3	Inlet	93	95	99	94	88	85	81	77	96
		Outlet	93	97	105	100	93	88	82	78	101
	6	Inlet	88	91	93	89	83	81	78	74	91
		Outlet	89	93	100	96	90	85	79	76	97
1750	1	Inlet	95	99	102	100	92	89	86	82	100
		Outlet	97	100	104	103	97	93	89	84	104
	4	Inlet	94	97	99	97	89	87	83	79	98
		Outlet	94	98	106	104	95	90	84	80	104
	8	Inlet	92	95	94	92	85	83	80	76	93
		Outlet	92	96	101	98	91	87	82	78	99

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{Wi}, L_WA and outlet L_{Wo}, L_WA sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

CPS & CPA Size 300 & 330 Sound Data

300 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
600	1	Inlet	73	74	70	65	63	59	55	51	69
		Outlet	75	79	73	70	66	61	57	54	72
740	1	Inlet	79	83	79	73	70	68	62	57	77
		Outlet	81	89	83	78	74	69	62	59	81
	1.5	Inlet	76	80	76	70	68	65	61	57	74
		Outlet	79	86	80	75	72	67	62	59	78
880	1	Inlet	83	88	86	79	76	73	68	63	83
		Outlet	86	93	91	84	80	75	70	65	87
	2	Inlet	80	83	82	75	72	70	66	62	79
		Outlet	83	90	88	81	77	71	67	64	84
1020	1	Inlet	87	90	93	83	80	77	72	67	88
		Outlet	90	94	97	88	85	80	75	69	92
	2	Inlet	86	87	89	81	78	75	71	66	85
		Outlet	88	94	97	87	83	76	71	69	91
	3	Inlet	83	84	85	78	75	72	69	65	82
		Outlet	85	91	93	84	80	75	70	67	88
1160	1	Inlet	91	91	98	87	84	81	77	71	92
		Outlet	93	96	101	92	89	84	80	73	96
	2	Inlet	90	90	96	86	82	79	76	70	90
		Outlet	91	96	103	91	88	81	76	73	96
	4	Inlet	86	86	90	81	78	76	72	69	85
		Outlet	86	92	97	88	84	78	73	70	92
1300	1	Inlet	94	94	101	92	87	85	81	75	95
		Outlet	95	98	103	96	92	87	84	77	99
	3	Inlet	92	92	98	89	84	82	78	73	93
		Outlet	92	97	105	95	90	84	78	75	99
	5	Inlet	88	89	92	85	81	79	75	72	88
		Outlet	88	93	100	91	87	82	77	73	95
1440	1	Inlet	96	97	103	96	90	87	84	79	98
		Outlet	97	100	105	99	95	91	87	81	102
	3	Inlet	95	95	101	94	88	85	82	77	96
		Outlet	94	99	107	99	94	88	82	78	102
	6	Inlet	90	92	94	88	84	81	78	74	91
		Outlet	90	95	102	95	90	85	80	76	97
1580	1	Inlet	97	100	104	99	93	90	87	82	101
		Outlet	98	101	106	103	97	93	90	84	104
	3	Inlet	96	98	103	98	91	88	84	80	99
		Outlet	97	100	107	103	96	92	86	82	104
	6	Inlet	93	96	98	94	88	85	82	78	95
		Outlet	93	98	105	100	94	89	83	79	101

330 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
550	1	Inlet	74	75	70	66	63	60	55	51	69
		Outlet	77	79	74	70	67	61	57	54	73
670	1	Inlet	80	84	79	73	71	68	62	57	77
		Outlet	83	89	83	78	74	69	63	59	81
	1.5	Inlet	78	81	76	71	68	65	61	57	74
		Outlet	80	86	80	76	72	67	62	60	78
790	1	Inlet	84	89	85	79	76	73	68	62	83
		Outlet	87	95	90	84	79	75	69	64	87
	2	Inlet	81	84	81	75	72	69	65	61	79
		Outlet	84	91	86	81	76	71	67	64	84
910	1	Inlet	88	92	91	83	80	77	72	67	87
		Outlet	91	96	95	88	84	79	74	68	91
	2	Inlet	86	88	88	81	77	74	70	66	84
		Outlet	89	96	95	87	82	76	71	69	90
	3	Inlet	83	85	84	77	75	72	68	65	81
		Outlet	86	92	91	84	79	74	70	67	87
1030	1	Inlet	91	93	96	87	83	81	76	71	91
		Outlet	93	97	100	92	88	83	79	72	95
	2	Inlet	90	91	94	85	82	79	75	70	89
		Outlet	92	98	101	91	87	80	75	72	95
	4	Inlet	87	88	88	81	78	75	72	68	85
		Outlet	89	94	95	87	83	78	73	70	90
1150	1	Inlet	95	95	101	90	87	84	80	74	95
		Outlet	95	99	103	95	92	87	83	76	99
	3	Inlet	93	92	97	87	84	81	77	73	92
		Outlet	92	98	104	93	89	83	77	75	98
	5	Inlet	90	90	92	84	80	78	75	71	88
		Outlet	90	95	99	90	86	81	76	73	94
1270	1	Inlet	97	97	103	94	89	87	84	78	98
		Outlet	97	100	106	98	95	90	87	80	101
	3	Inlet	96	95	101	91	87	85	81	76	96
		Outlet	95	100	108	97	93	87	81	78	102
	6	Inlet	92	92	95	87	83	81	77	74	91
		Outlet	91	96	102	93	89	84	79	76	97
1390	1	Inlet	99	100	105	97	92	90	86	81	100
		Outlet	99	102	107	101	97	93	89	83	104
	3	Inlet	98	98	104	96	90	87	84	79	99
		Outlet	97	101	109	101	96	90	85	81	104
	6	Inlet	94	95	98	91	87	84	81	77	94
		Outlet	93	98	106	98	93	87	82	79	101

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International 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 B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

365 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
610	1	Inlet	81	88	81	74	72	68	62	57	79
		Outlet	83	94	84	78	74	68	62	57	82
	1.5	Inlet	77	84	78	71	69	65	59	55	75
		Outlet	81	93	81	75	72	67	61	57	81
720	1	Inlet	86	93	87	80	77	73	68	63	84
		Outlet	88	95	88	84	80	75	70	64	87
	2	Inlet	81	90	83	76	73	69	64	59	80
		Outlet	85	95	86	81	77	72	66	61	84
830	1	Inlet	89	99	90	85	82	78	73	68	89
		Outlet	92	98	91	88	85	80	75	69	91
	2	Inlet	87	96	88	82	79	76	71	66	86
		Outlet	90	97	91	87	83	78	72	66	89
	3	Inlet	84	94	85	79	76	73	68	64	84
		Outlet	88	95	88	84	80	75	70	65	86
940	1	Inlet	92	103	93	88	86	82	77	72	93
		Outlet	95	102	94	92	89	84	80	73	94
	2	Inlet	91	101	91	86	84	80	75	71	91
		Outlet	94	100	92	90	88	83	78	72	93
	4	Inlet	86	99	87	81	80	76	72	68	87
		Outlet	91	96	89	86	83	78	73	68	89
1050	1	Inlet	94	105	98	91	89	85	81	75	96
		Outlet	98	104	98	95	92	88	84	77	98
	3	Inlet	92	102	95	88	86	82	78	73	93
		Outlet	95	100	96	92	90	85	81	75	95
	5	Inlet	88	100	92	84	82	79	75	71	90
		Outlet	93	98	93	89	86	81	76	71	92
1160	1	Inlet	96	106	103	94	91	88	84	79	99
		Outlet	100	106	103	97	95	91	87	81	101
	3	Inlet	95	104	101	92	89	86	81	77	97
		Outlet	97	103	100	95	93	89	84	79	99
	6	Inlet	90	101	98	87	85	82	78	73	93
		Outlet	95	99	97	92	89	84	79	74	95
1270	1	Inlet	98	107	108	97	93	91	87	81	102
		Outlet	102	107	108	100	97	93	89	84	104
	3	Inlet	97	106	106	95	92	89	85	80	101
		Outlet	99	104	105	98	96	92	87	82	102
	6	Inlet	91	102	104	92	89	86	81	76	98
		Outlet	95	100	101	96	93	88	82	77	98

402 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
450	1	Inlet	76	78	71	66	63	59	53	49	70
		Outlet	84	84	75	70	66	61	56	52	74
550	1	Inlet	83	88	81	74	72	68	62	57	79
		Outlet	85	93	84	78	74	68	62	57	82
	1.5	Inlet	79	84	77	71	69	65	59	55	75
		Outlet	84	92	80	75	72	67	61	58	80
650	1	Inlet	88	94	86	80	77	73	68	63	84
		Outlet	89	95	88	84	80	75	70	64	87
	2	Inlet	83	90	82	76	73	69	64	59	80
		Outlet	86	95	86	81	77	71	66	61	84
750	1	Inlet	92	100	90	85	82	78	73	68	89
		Outlet	93	99	92	89	85	80	75	69	91
	1.5	Inlet	91	99	89	84	81	77	72	67	88
		Outlet	92	99	91	88	84	79	74	68	90
	2	Inlet	89	98	88	82	80	76	71	66	87
		Outlet	91	99	91	87	83	78	72	66	90
850	1	Inlet	95	105	93	88	86	82	77	72	93
		Outlet	97	103	94	92	89	84	80	73	95
	2	Inlet	93	103	91	86	84	80	75	71	91
		Outlet	95	101	93	91	88	83	78	72	93
	3	Inlet	90	102	89	84	82	78	73	68	90
		Outlet	92	98	92	89	85	80	74	69	91
950	1	Inlet	96	107	96	91	89	85	81	75	96
		Outlet	99	106	97	95	92	88	84	77	98
	2	Inlet	95	106	95	90	88	84	79	74	95
		Outlet	97	104	96	94	91	86	82	76	97
	4	Inlet	90	105	92	86	85	81	75	71	93
		Outlet	93	99	94	92	88	82	77	71	94
1050	1	Inlet	98	108	101	94	92	88	84	79	99
		Outlet	101	108	102	98	95	91	87	80	101
	3	Inlet	96	106	99	92	90	86	82	77	97
		Outlet	99	104	99	96	93	89	85	79	99
	5	Inlet	91	105	97	89	87	83	78	73	95
		Outlet	94	100	97	94	91	85	79	74	96
1150	1	Inlet	100	109	106	97	94	91	87	81	102
		Outlet	103	109	106	100	98	94	90	84	104
	3	Inlet	98	108	104	95	93	89	85	80	100
		Outlet	101	106	103	99	96	92	87	82	102
	6	Inlet	93	105	102	92	89	86	81	76	97
		Outlet	96	101	101	96	93	88	82	77	99

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{Wi}, L_{WA} and outlet L_{Wo}, L_{WA} sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

CPS & CPA Size 445 & 490 Sound Data

445 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
400	1	Inlet	78	77	70	66	63	58	53	49	69
		Outlet	87	82	74	70	66	60	56	54	73
490	1	Inlet	84	87	80	74	71	67	62	57	78
		Outlet	88	92	83	78	73	67	61	56	82
	1.5	Inlet	80	84	77	71	69	64	59	55	75
		Outlet	87	90	80	75	72	66	61	59	79
580	1	Inlet	89	93	86	80	77	73	67	63	84
		Outlet	90	95	88	84	80	75	69	63	87
	2	Inlet	85	89	82	76	73	69	64	59	80
		Outlet	88	95	85	80	77	71	65	61	84
670	1	Inlet	94	99	90	85	82	77	72	68	89
		Outlet	94	99	92	88	85	80	75	68	91
	2	Inlet	91	97	87	82	79	75	70	65	86
		Outlet	92	98	91	87	82	77	71	66	89
	3	Inlet	89	94	84	79	77	73	68	64	84
		Outlet	91	96	88	83	80	75	70	66	86
760	1	Inlet	97	106	93	88	86	82	77	72	94
		Outlet	98	104	95	92	89	84	79	73	95
	2	Inlet	95	104	91	87	84	80	75	70	92
		Outlet	97	102	93	91	87	83	78	71	94
	3	Inlet	93	103	89	85	82	78	73	68	90
		Outlet	93	99	92	89	85	79	74	68	91
850	1	Inlet	99	108	96	91	89	85	81	75	97
		Outlet	101	107	97	95	92	88	83	76	98
	2	Inlet	98	107	95	90	88	84	79	74	96
		Outlet	99	105	96	94	91	86	82	75	97
	4	Inlet	93	106	92	87	85	80	75	71	93
		Outlet	94	100	94	92	88	82	76	71	93
940	1	Inlet	100	110	99	94	92	88	84	78	99
		Outlet	102	110	100	98	95	91	87	80	101
	3	Inlet	98	108	97	92	90	86	81	77	97
		Outlet	100	106	98	96	94	89	85	78	99
	6	Inlet	93	106	92	87	86	82	78	74	93
		Outlet	97	103	95	92	89	84	79	74	95
1030	1	Inlet	101	111	103	96	94	91	87	81	102
		Outlet	104	111	104	101	98	94	90	83	104
	3	Inlet	100	110	102	95	93	89	84	80	100
		Outlet	102	107	102	99	96	92	87	81	102
	6	Inlet	94	108	99	92	90	86	80	76	97
		Outlet	97	103	100	96	93	87	82	77	98

490 CPS & CPA

RPM	SP	Condition	SOUND POWER re 10-12 WATTS								Lwa
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
350	1	Inlet	78	75	68	66	62	57	53	49	68
		Outlet	87	79	72	69	65	59	57	57	72
440	1	Inlet	86	87	79	74	71	67	61	56	78
		Outlet	92	91	83	78	73	67	61	56	81
	1.5	Inlet	82	83	76	71	69	64	59	55	75
		Outlet	89	88	79	75	72	66	62	60	79
530	1	Inlet	92	93	86	81	78	73	68	63	84
		Outlet	93	95	89	84	80	75	69	63	87
	2	Inlet	88	89	82	77	74	69	64	60	80
		Outlet	90	94	85	81	77	71	66	61	84
620	1	Inlet	96	100	90	86	83	78	73	68	90
		Outlet	97	99	93	89	86	81	75	69	92
	2	Inlet	94	97	88	83	81	76	71	67	87
		Outlet	94	99	91	88	83	78	72	67	90
	3	Inlet	92	95	85	80	78	74	69	65	84
		Outlet	93	97	88	85	81	75	70	66	87
710	1	Inlet	100	107	94	90	87	83	78	73	95
		Outlet	101	105	96	94	90	85	80	74	96
	2	Inlet	99	105	92	88	86	81	76	72	93
		Outlet	99	103	94	92	89	84	79	72	95
	4	Inlet	95	102	87	84	81	77	73	69	90
		Outlet	96	99	91	88	84	79	74	69	91
800	1	Inlet	102	111	97	93	91	87	82	76	98
		Outlet	103	109	99	97	93	89	84	78	100
	3	Inlet	99	108	95	90	88	84	79	74	96
		Outlet	100	105	97	95	92	87	82	76	97
	5	Inlet	96	107	91	87	85	81	76	72	94
		Outlet	98	103	94	91	88	82	77	72	94
890	1	Inlet	103	112	101	95	94	90	85	80	101
		Outlet	105	112	102	100	97	92	88	81	103
	3	Inlet	101	111	99	94	92	88	83	78	99
		Outlet	102	108	100	98	95	90	86	79	101
	6	Inlet	96	109	95	89	88	84	79	75	96
		Outlet	99	104	97	95	91	85	80	75	97
980	1	Inlet	104	114	104	98	96	93	88	83	103
		Outlet	106	114	105	103	99	95	92	85	105
	4	Inlet	102	112	102	96	94	90	85	81	101
		Outlet	103	109	102	100	98	93	89	82	103
	8	Inlet	97	109	97	91	89	86	82	78	97
		Outlet	101	106	99	96	93	88	83	78	99

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{WA}, L_{WA} and outlet L_{WA}, L_{WA} sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

120 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
1400	1	Inlet	66	69	68	59	55	52	48	43	63
		Outlet	81	74	72	62	57	54	51	49	67
1790	1	Inlet	70	77	77	70	64	60	59	50	73
		Outlet	84	79	79	71	67	65	60	52	75
	1.5	Inlet	70	76	74	67	61	58	56	50	70
		Outlet	84	79	77	69	64	60	57	53	73
2180	1	Inlet	75	81	82	79	72	68	66	61	80
		Outlet	90	85	84	80	74	73	68	62	82
	2	Inlet	73	79	79	75	68	63	61	57	76
		Outlet	86	82	81	76	70	66	63	58	78
2570	1	Inlet	79	84	85	84	77	73	71	70	84
		Outlet	95	90	87	85	79	77	74	70	87
	2	Inlet	79	82	83	82	75	70	68	66	82
		Outlet	92	87	85	83	77	74	70	67	84
	3	Inlet	77	81	81	79	72	67	65	62	79
		Outlet	92	86	83	80	74	70	66	63	81
2960	1	Inlet	83	88	87	87	81	77	75	76	88
		Outlet	101	93	89	88	84	81	79	76	90
	2	Inlet	84	87	85	86	80	74	72	72	86
		Outlet	99	92	88	87	82	80	76	73	89
	4	Inlet	83	83	82	81	75	70	68	66	82
		Outlet	100	88	85	83	78	74	69	67	85
3350	1	Inlet	86	91	90	90	85	80	79	80	91
		Outlet	104	97	93	91	87	84	82	80	94
	3	Inlet	86	90	88	88	83	77	74	74	89
		Outlet	100	95	91	89	85	82	78	75	91
	5	Inlet	85	86	85	84	79	74	71	69	85
		Outlet	103	93	88	86	82	78	72	70	88
3740	1	Inlet	87	94	94	93	89	84	82	82	94
		Outlet	106	101	96	94	91	87	85	83	97
	3	Inlet	88	93	92	91	87	81	78	78	93
		Outlet	103	99	94	92	89	86	82	79	95
	6	Inlet	87	89	89	88	83	77	74	72	89
		Outlet	105	97	91	89	85	81	76	73	91
4130	1	Inlet	89	96	97	96	92	87	84	85	97
		Outlet	108	104	98	96	93	90	88	86	99
	4	Inlet	90	95	95	93	90	84	80	79	95
		Outlet	105	102	97	95	92	88	85	81	97
	8	Inlet	89	93	92	90	85	80	76	74	91
		Outlet	106	101	93	90	87	83	78	75	93

135 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
1300	1	Inlet	68	71	69	61	56	54	50	44	65
		Outlet	78	75	72	63	59	56	52	47	68
1630	1	Inlet	73	79	80	71	66	62	59	51	75
		Outlet	85	81	82	72	69	66	61	52	77
	1.5	Inlet	72	78	77	68	63	59	57	51	72
		Outlet	83	80	79	70	65	62	58	52	74
1960	1	Inlet	77	83	83	78	72	69	67	62	80
		Outlet	91	86	85	79	75	74	69	63	82
	2	Inlet	75	81	80	74	68	64	63	58	76
		Outlet	87	83	82	76	71	67	64	59	78
2290	1	Inlet	81	86	86	84	77	74	72	71	85
		Outlet	95	90	88	85	80	78	74	71	87
	2	Inlet	81	84	84	81	75	70	69	66	82
		Outlet	92	88	86	83	78	74	71	67	84
	3	Inlet	79	82	82	78	72	68	65	63	80
		Outlet	92	86	83	80	74	70	67	64	82
2620	1	Inlet	85	89	88	87	81	77	76	77	88
		Outlet	100	93	90	88	84	82	79	76	91
	2	Inlet	85	88	86	86	80	75	73	73	86
		Outlet	98	92	89	87	83	80	76	73	89
	4	Inlet	84	84	83	81	75	71	68	67	82
		Outlet	99	88	85	83	78	74	69	67	85
2950	1	Inlet	88	93	91	91	85	80	79	81	92
		Outlet	105	96	93	92	87	85	83	80	94
	3	Inlet	88	91	88	88	82	77	75	75	89
		Outlet	101	94	91	89	85	82	78	76	91
	5	Inlet	87	87	86	85	79	74	71	70	85
		Outlet	104	91	88	86	81	77	72	71	88
3280	1	Inlet	90	95	94	94	88	84	82	83	95
		Outlet	107	100	96	94	90	88	86	83	97
	3	Inlet	90	94	92	92	87	81	78	79	93
		Outlet	105	99	94	93	89	86	82	80	95
	6	Inlet	89	90	89	88	82	77	74	73	89
		Outlet	106	95	91	89	85	81	75	73	91
3610	1	Inlet	91	97	97	96	91	87	85	86	97
		Outlet	109	103	98	97	93	90	88	86	99
	4	Inlet	92	96	95	94	89	83	80	80	95
		Outlet	106	101	97	95	91	88	84	81	97
	8	Inlet	92	95	92	89	84	79	76	74	91
		Outlet	107	99	93	90	86	82	78	75	93

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{Wi}, L_{WA} and outlet L_{Wo}, L_{WA} sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

CPS-A & CPA-A Size 150 & 165 Sound Data

150 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS									L _{WA}
			OCTAVE BANDS									
			1	2	3	4	5	6	7	8		
1200	1	Inlet	67	67	67	60	59	58	52	45	65	
		Outlet	70	72	70	63	61	58	52	45	67	
1520	1	Inlet	77	74	79	71	68	69	64	54	76	
		Outlet	80	78	83	72	72	70	63	55	78	
	1.5	Inlet	77	72	77	68	65	66	60	51	73	
		Outlet	77	76	81	70	68	66	59	52	76	
1840	1	Inlet	85	80	84	78	73	76	74	67	82	
		Outlet	89	81	87	78	77	78	72	62	84	
	2	Inlet	85	77	81	75	69	72	68	58	78	
		Outlet	83	79	85	75	73	74	66	59	81	
2160	1	Inlet	87	85	87	84	78	79	79	76	87	
		Outlet	94	86	89	85	81	81	78	72	88	
	2	Inlet	86	83	85	82	76	77	75	68	85	
		Outlet	90	85	87	83	79	79	75	68	86	
	3	Inlet	86	81	82	80	73	74	71	64	82	
		Outlet	87	82	86	82	76	76	71	64	84	
2480	1	Inlet	89	89	89	88	82	81	82	82	91	
		Outlet	99	91	91	91	85	84	82	79	92	
	2	Inlet	88	88	88	87	80	80	81	79	89	
		Outlet	96	90	90	90	84	83	80	75	91	
	4	Inlet	87	84	84	84	76	76	75	70	85	
		Outlet	93	85	87	87	80	78	75	69	87	
2800	1	Inlet	92	92	91	91	84	84	85	86	93	
		Outlet	106	94	93	95	89	87	85	85	96	
	3	Inlet	89	89	88	90	82	82	82	80	91	
		Outlet	101	91	91	92	87	85	82	79	94	
	5	Inlet	90	84	84	86	78	77	77	74	86	
		Outlet	95	86	86	88	81	78	75	71	88	
3120	1	Inlet	95	94	93	93	87	86	86	89	96	
		Outlet	112	98	95	98	92	90	87	88	99	
	3	Inlet	93	92	91	92	85	85	85	87	94	
		Outlet	106	95	94	97	91	88	86	84	98	
	6	Inlet	91	86	87	90	82	81	82	78	91	
		Outlet	107	90	89	94	87	84	82	78	94	
3440	1	Inlet	97	97	96	96	90	89	89	91	98	
		Outlet	115	102	98	100	95	92	90	91	101	
	4	Inlet	94	95	94	94	88	87	87	88	96	
		Outlet	108	98	95	97	94	91	88	86	99	
	8	Inlet	94	90	88	91	85	82	83	80	92	
		Outlet	106	94	91	94	89	85	83	79	95	

165 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
1100	1	Inlet	67	68	67	60	61	59	52	44	66
		Outlet	70	74	69	64	63	58	52	45	68
1380	1	Inlet	77	76	79	71	69	69	63	53	76
		Outlet	80	79	82	73	72	70	63	54	78
	1.5	Inlet	77	74	76	68	66	66	60	51	73
		Outlet	77	78	80	70	69	66	59	52	75
1660	1	Inlet	85	81	85	78	74	76	74	66	83
		Outlet	89	82	88	79	78	77	71	61	84
	2	Inlet	84	78	82	75	70	72	67	58	79
		Outlet	83	80	86	75	74	73	66	58	81
1940	1	Inlet	88	85	88	83	78	80	80	76	87
		Outlet	94	86	90	84	82	82	78	71	88
	3	Inlet	88	80	83	78	72	74	71	64	81
		Outlet	87	82	87	80	76	76	70	64	84
2220	1	Inlet	90	89	90	87	82	82	83	82	91
		Outlet	98	91	92	90	85	84	82	79	92
	2	Inlet	89	88	89	86	80	81	81	78	89
		Outlet	96	89	91	89	84	83	80	75	91
	4	Inlet	88	84	85	83	76	76	75	69	85
		Outlet	91	85	88	85	79	78	74	69	87
2500	1	Inlet	92	92	92	90	85	84	85	87	94
		Outlet	104	94	94	94	89	87	85	85	96
	3	Inlet	90	89	89	89	82	82	82	80	91
		Outlet	99	91	91	91	87	85	82	78	93
	5	Inlet	89	85	86	86	79	79	79	74	88
		Outlet	97	87	89	90	83	81	78	73	90
2780	1	Inlet	95	94	93	93	87	87	87	90	96
		Outlet	111	97	96	98	92	90	87	89	99
	4	Inlet	91	89	90	91	84	84	84	82	93
		Outlet	104	93	93	93	90	87	84	81	95
	6	Inlet	92	86	87	89	82	81	82	78	90
		Outlet	105	89	90	94	86	83	81	77	94
3060	1	Inlet	98	97	96	96	89	89	89	92	98
		Outlet	115	100	98	100	94	92	89	91	102
	4	Inlet	96	94	93	95	87	87	87	87	96
		Outlet	108	96	96	98	93	90	88	85	99
	6	Inlet	94	90	91	94	85	85	86	82	94
		Outlet	109	94	93	96	90	88	85	82	97

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{Wi}, L_{WA} and outlet L_{Wo}, L_{WA} sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

180 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
1000	1	Inlet	65	67	67	62	59	55	55	56	66
		Outlet	74	74	71	66	62	57	55	53	69
1240	1	Inlet	72	74	77	71	67	63	60	59	74
		Outlet	83	79	81	74	71	66	60	57	77
	1.5	Inlet	72	71	74	69	64	61	59	60	72
		Outlet	82	75	79	71	69	64	60	58	75
1480	1	Inlet	77	78	84	77	73	70	65	64	80
		Outlet	91	82	89	79	77	73	67	62	84
	2	Inlet	78	75	80	75	70	66	63	64	77
		Outlet	88	77	86	76	74	69	64	62	81
1720	1	Inlet	81	83	86	83	78	75	71	69	84
		Outlet	93	87	91	86	82	78	73	68	88
	2	Inlet	79	80	84	81	76	72	68	66	82
		Outlet	91	85	89	84	80	75	70	66	86
	3	Inlet	80	79	81	78	73	70	67	67	80
		Outlet	90	83	86	81	77	73	68	66	83
1960	1	Inlet	84	86	88	87	81	79	75	72	88
		Outlet	96	91	92	92	85	82	78	73	92
	2	Inlet	82	85	87	86	80	77	72	70	87
		Outlet	94	90	91	90	84	80	75	70	91
	4	Inlet	82	82	83	81	76	73	70	70	83
		Outlet	91	86	86	86	80	76	72	69	87
2200	1	Inlet	88	89	90	91	84	82	79	76	91
		Outlet	99	95	93	97	88	85	82	77	96
	3	Inlet	85	86	88	89	82	79	75	72	89
		Outlet	95	92	91	94	87	83	77	73	94
	5	Inlet	84	84	84	85	79	76	73	72	85
		Outlet	93	88	87	90	83	80	75	72	90
2440	1	Inlet	92	91	91	94	86	85	83	79	94
		Outlet	103	97	93	101	92	88	85	81	100
	3	Inlet	89	89	90	93	85	83	79	75	93
		Outlet	98	95	92	98	91	86	81	77	98
	6	Inlet	86	86	86	88	81	79	75	75	88
		Outlet	94	89	87	93	86	83	77	75	93
2680	1	Inlet	94	94	94	96	90	87	85	82	97
		Outlet	105	100	96	103	95	91	88	84	102
	4	Inlet	90	91	92	95	88	85	81	77	95
		Outlet	99	97	94	100	94	89	83	78	99
	8	Inlet	88	90	88	88	83	81	77	77	90
		Outlet	96	92	90	94	89	85	80	77	94

195 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
1000	1	Inlet	68	71	71	66	62	58	57	58	69
		Outlet	76	77	74	69	66	60	57	55	72
1210	1	Inlet	74	77	79	74	69	65	62	61	76
		Outlet	85	81	84	76	73	68	62	59	80
	2	Inlet	76	73	75	70	66	62	61	61	73
		Outlet	86	81	79	73	70	65	61	59	76
1420	1	Inlet	79	81	85	79	74	71	67	66	81
		Outlet	92	84	91	81	79	74	69	64	85
	2	Inlet	78	77	82	76	72	68	64	65	79
		Outlet	88	80	87	78	76	71	66	64	82
1630	1	Inlet	83	84	88	83	79	76	72	70	85
		Outlet	94	88	93	86	83	79	74	69	89
	2	Inlet	81	82	86	82	77	73	69	67	84
		Outlet	92	86	91	85	81	76	71	67	87
	3	Inlet	81	79	83	79	74	71	68	68	81
		Outlet	91	83	88	82	79	74	69	67	85
1840	1	Inlet	86	87	90	87	82	80	76	73	89
		Outlet	97	92	94	92	86	83	78	74	93
	2	Inlet	84	86	88	87	81	77	73	71	87
		Outlet	95	91	93	91	85	81	75	71	91
	4	Inlet	83	83	84	82	77	74	71	71	84
		Outlet	92	86	88	86	81	77	73	70	87
2050	1	Inlet	89	90	91	91	85	83	80	76	92
		Outlet	100	95	95	97	89	86	82	78	97
	3	Inlet	86	87	89	89	82	79	75	72	90
		Outlet	95	93	92	94	88	83	77	73	94
	5	Inlet	85	85	85	85	79	77	74	73	86
		Outlet	93	89	88	90	84	80	75	73	90
2260	1	Inlet	93	92	92	94	87	85	83	79	95
		Outlet	103	98	95	101	92	88	85	81	100
	3	Inlet	90	90	91	93	85	83	79	75	93
		Outlet	98	95	94	99	91	87	81	77	98
	6	Inlet	87	87	87	88	81	79	76	76	88
		Outlet	95	90	89	94	87	83	78	75	93
2470	1	Inlet	95	94	94	97	89	87	86	82	97
		Outlet	106	100	96	104	95	91	88	84	103
	4	Inlet	91	92	93	96	88	85	81	77	95
		Outlet	100	97	95	101	94	89	83	79	100
	8	Inlet	90	90	89	89	83	81	78	78	90
		Outlet	97	92	90	95	89	85	80	78	95

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{Wi}, L_{Wfi} and outlet L_{Wo}, L_{Wfo} sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

CPS-A & CPA-A Size 210 & 225 Sound Data

210 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
900	1	Inlet	67	70	71	66	65	60	53	47	69
		Outlet	75	76	75	70	68	62	55	49	73
1100	1	Inlet	75	77	82	73	72	71	64	56	79
		Outlet	83	81	86	77	75	73	66	56	82
	1.5	Inlet	72	74	77	71	70	67	59	53	75
		Outlet	80	79	82	75	73	69	61	55	78
1300	1	Inlet	81	82	87	79	77	77	72	63	84
		Outlet	88	85	90	82	80	79	74	64	87
	2	Inlet	76	78	82	75	74	72	65	59	80
		Outlet	84	83	86	79	77	74	67	60	83
1500	1	Inlet	85	86	90	83	81	80	77	70	88
		Outlet	92	91	94	87	84	82	79	71	91
	2	Inlet	82	83	89	81	78	78	73	66	85
		Outlet	89	88	92	85	82	80	75	68	88
	3	Inlet	79	80	84	78	76	74	68	62	82
		Outlet	85	86	90	82	79	76	70	62	86
1700	1	Inlet	90	88	92	86	84	83	81	75	91
		Outlet	96	95	97	90	87	85	83	77	94
	2	Inlet	88	86	92	85	82	81	79	73	89
		Outlet	94	92	95	88	85	83	81	75	92
	4	Inlet	84	82	86	80	77	77	72	66	84
		Outlet	87	88	92	85	81	79	74	66	88
1900	1	Inlet	95	90	94	88	86	86	84	79	93
		Outlet	100	97	100	91	90	88	86	81	97
	3	Inlet	92	86	93	85	83	83	81	75	90
		Outlet	97	93	96	89	87	84	83	77	93
	5	Inlet	90	83	88	81	79	79	75	69	86
		Outlet	89	89	95	87	84	81	77	69	91
2100	1	Inlet	97	93	96	92	89	89	87	83	96
		Outlet	103	100	101	96	93	90	89	84	99
	3	Inlet	95	91	95	90	86	86	84	79	94
		Outlet	100	97	99	94	90	88	86	82	97
	6	Inlet	92	87	90	85	82	82	78	72	89
		Outlet	91	91	97	91	87	84	80	72	94
2300	1	Inlet	99	97	98	96	91	91	90	85	98
		Outlet	105	102	103	100	95	93	91	87	102
	4	Inlet	96	94	96	94	88	88	86	82	96
		Outlet	101	99	99	97	92	90	88	84	99
	8	Inlet	93	90	91	88	82	82	79	75	90
		Outlet	92	93	96	93	87	85	81	75	94

225 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}	
			OCTAVE BANDS									
			1	2	3	4	5	6	7	8		
900	1	Inlet	70	74	74	69	68	64	57	50	73	
		Outlet	78	79	78	73	71	66	58	51	76	
1080	1	Inlet	78	80	85	75	74	73	67	57	81	
		Outlet	85	83	87	79	77	76	68	58	84	
	2	Inlet	73	75	76	70	69	66	59	55	74	
		Outlet	81	79	82	75	73	68	61	56	79	
1260	1	Inlet	83	83	89	80	79	78	73	65	85	
		Outlet	90	87	91	83	81	80	75	66	88	
	2	Inlet	79	80	84	77	76	74	67	61	82	
		Outlet	86	85	88	81	79	76	69	62	85	
1440	1	Inlet	87	87	91	84	82	82	78	71	89	
		Outlet	94	92	95	87	85	84	80	73	92	
	2	Inlet	84	85	90	82	80	79	75	68	87	
		Outlet	91	89	93	86	83	81	77	69	90	
	3	Inlet	81	82	86	79	77	76	70	63	83	
		Outlet	87	88	91	84	81	78	71	64	87	
	1620	1	Inlet	91	89	94	87	85	84	82	76	92
			Outlet	97	96	98	90	88	86	84	78	95
2		Inlet	89	88	93	85	83	82	80	74	90	
		Outlet	96	93	96	89	86	84	82	76	93	
1800	1	Inlet	86	83	88	81	79	78	73	66	85	
		Outlet	88	89	95	86	83	80	75	66	90	
	3	Inlet	95	91	95	88	87	87	85	80	94	
		Outlet	101	98	101	92	91	89	87	82	97	
	5	Inlet	93	88	94	86	84	84	82	76	91	
		Outlet	98	94	97	90	88	85	83	78	94	
	1980	1	Inlet	91	85	90	82	80	80	76	70	87
			Outlet	90	90	98	88	85	82	78	69	92
3		Inlet	98	94	97	92	89	89	88	83	96	
		Outlet	104	100	103	96	93	91	90	85	100	
2160	1	Inlet	96	91	96	90	87	87	85	80	94	
		Outlet	101	98	100	94	91	88	87	82	97	
	4	Inlet	94	87	92	85	83	83	79	73	90	
		Outlet	92	92	99	91	87	85	81	73	95	
	8	Inlet	100	97	99	95	92	92	90	86	99	
		Outlet	106	103	104	99	96	94	92	88	102	
	4	Inlet	98	94	97	93	89	88	87	82	96	
		Outlet	102	99	101	97	93	90	89	84	99	
8	Inlet	94	90	93	88	83	83	80	75	91		
	Outlet	93	94	97	93	88	85	82	75	95		

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{Wi}, L_{WiA} and outlet L_{Wo}, L_{WoA} sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

245 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
700	1	Inlet	67	71	62	59	57	54	49	45	63
		Outlet	72	77	64	62	61	57	52	50	67
880	1	Inlet	74	80	74	68	65	64	59	52	72
		Outlet	77	85	74	71	69	67	61	53	76
	1.5	Inlet	72	78	71	64	63	61	56	52	70
		Outlet	74	82	71	67	67	64	58	56	73
1060	1	Inlet	79	84	82	74	71	71	67	61	79
		Outlet	81	87	82	77	75	73	70	62	81
	2	Inlet	76	81	78	70	68	66	62	57	75
		Outlet	78	85	79	73	71	69	63	60	78
1240	1	Inlet	83	86	88	80	76	75	72	67	84
		Outlet	88	90	90	82	80	78	74	68	87
	2	Inlet	82	84	86	77	74	72	69	64	82
		Outlet	85	89	90	81	78	74	70	65	85
	3	Inlet	80	81	82	74	71	69	66	62	78
		Outlet	81	85	86	77	74	71	68	63	82
1420	1	Inlet	88	88	93	83	80	78	76	72	88
		Outlet	94	93	97	87	84	81	78	73	92
	2	Inlet	88	86	92	81	78	76	74	70	87
		Outlet	92	91	95	84	82	79	76	71	90
	4	Inlet	86	82	87	77	74	71	69	66	82
		Outlet	84	87	91	81	78	74	71	67	86
1600	1	Inlet	92	90	96	87	84	81	79	75	91
		Outlet	99	96	101	91	88	84	81	77	96
	3	Inlet	91	88	94	84	81	78	76	72	89
		Outlet	94	93	98	88	85	81	77	73	93
	5	Inlet	91	84	89	81	77	74	72	69	85
		Outlet	87	89	94	85	81	76	74	70	89
1780	1	Inlet	94	94	98	91	87	84	82	79	94
		Outlet	101	99	103	95	91	87	84	80	98
	3	Inlet	93	92	96	89	84	82	79	76	92
		Outlet	98	96	100	93	88	85	81	78	96
	6	Inlet	93	89	91	85	80	77	75	72	88
		Outlet	89	91	96	89	84	80	77	73	92
1960	1	Inlet	95	97	99	95	89	87	85	81	97
		Outlet	103	102	104	99	94	90	87	83	101
	4	Inlet	95	95	97	93	86	84	81	79	94
		Outlet	99	98	101	96	90	87	83	80	98
	8	Inlet	93	92	92	88	82	79	77	74	90
		Outlet	90	92	96	92	86	82	79	75	94

270 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
700	1	Inlet	72	77	68	63	61	58	53	48	68
		Outlet	77	82	69	66	65	60	55	50	71
850	1	Inlet	78	83	77	70	68	67	62	55	75
		Outlet	80	86	76	73	72	70	64	56	78
	1.5	Inlet	75	82	74	68	66	64	58	54	73
		Outlet	78	86	75	71	69	67	60	56	76
1000	1	Inlet	82	86	83	76	73	72	69	62	80
		Outlet	84	89	83	79	77	75	71	64	83
	2	Inlet	79	84	80	73	70	69	63	59	77
		Outlet	81	89	81	76	73	71	65	60	80
1150	1	Inlet	85	88	88	80	77	76	73	68	85
		Outlet	89	92	91	84	81	79	75	69	88
	2	Inlet	84	86	86	78	75	73	70	65	83
		Outlet	87	91	89	82	79	75	71	66	86
	3	Inlet	82	84	83	75	72	70	67	63	79
		Outlet	83	88	86	78	75	72	68	64	82
1300	1	Inlet	89	90	93	84	81	79	76	72	88
		Outlet	95	94	97	87	85	81	78	73	92
	2	Inlet	89	88	91	82	79	77	74	71	87
		Outlet	93	92	95	85	83	79	76	72	90
	4	Inlet	87	84	86	78	75	72	70	66	82
		Outlet	86	89	91	82	78	74	71	67	86
1450	1	Inlet	93	91	97	87	84	82	80	76	92
		Outlet	100	96	102	91	89	84	82	77	96
	3	Inlet	92	88	95	84	81	78	76	72	89
		Outlet	95	94	99	88	86	81	78	73	93
	5	Inlet	92	85	90	80	77	75	73	70	85
		Outlet	88	90	95	85	82	77	74	70	89
1600	1	Inlet	95	94	99	90	87	84	82	78	95
		Outlet	102	99	104	94	91	87	85	80	99
	3	Inlet	95	91	98	88	85	82	80	76	93
		Outlet	99	96	101	91	89	85	82	78	96
	6	Inlet	95	88	93	84	80	77	75	72	88
		Outlet	90	92	97	88	84	79	77	73	92
1750	1	Inlet	97	97	101	94	89	87	85	81	97
		Outlet	104	102	106	98	94	90	87	83	101
	4	Inlet	97	94	99	91	86	84	81	78	94
		Outlet	99	98	102	94	90	87	83	79	98
	8	Inlet	94	91	93	86	81	79	77	74	89
		Outlet	91	93	97	91	86	82	79	75	93

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{Wi}, L_{WfA} and outlet L_{Wo}, L_{WfA} sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

CPS-A & CPA-A Size 300 & 330 Sound Data

300 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
550	1	Inlet	68	67	60	59	57	53	49	45	62
		Outlet	77	71	63	62	60	55	52	49	65
690	1	Inlet	76	81	72	67	66	63	57	51	72
		Outlet	82	86	74	71	69	65	58	50	75
	1.5	Inlet	74	77	68	64	63	60	55	51	69
		Outlet	78	82	70	68	66	62	58	55	72
830	1	Inlet	81	87	79	73	71	70	66	58	78
		Outlet	83	89	79	77	75	73	68	60	81
	1.5	Inlet	79	85	78	72	69	68	62	56	76
		Outlet	83	92	79	75	73	70	63	56	80
	2	Inlet	78	83	75	69	68	66	61	56	74
		Outlet	80	87	76	72	71	68	63	60	77
970	1	Inlet	85	89	85	78	76	75	71	65	83
		Outlet	88	93	86	82	80	78	73	66	86
	2	Inlet	82	87	83	76	73	72	67	62	80
		Outlet	85	94	85	80	77	74	68	62	84
	3	Inlet	80	83	78	72	70	69	65	61	77
		Outlet	82	89	81	76	74	71	66	63	80
1110	1	Inlet	88	91	90	83	80	78	75	70	87
		Outlet	93	95	93	86	84	81	77	72	90
	2	Inlet	87	89	89	81	78	76	73	69	85
		Outlet	91	93	91	84	81	78	75	70	88
	3	Inlet	86	87	86	79	75	73	70	65	83
		Outlet	87	93	91	83	79	75	71	66	87
1250	1	Inlet	92	92	94	86	83	81	79	75	91
		Outlet	99	98	99	90	87	84	81	76	95
	2	Inlet	92	91	93	84	82	79	77	73	89
		Outlet	97	96	97	88	86	82	79	74	93
	4	Inlet	91	87	90	81	78	75	73	69	85
		Outlet	90	93	95	85	82	77	74	69	90
1390	1.5	Inlet	96	93	98	88	86	83	81	77	93
		Outlet	101	98	103	92	90	86	83	78	97
	3	Inlet	95	92	97	86	84	81	79	76	92
		Outlet	98	96	101	90	88	84	81	77	95
	5	Inlet	95	89	93	84	81	77	76	72	88
		Outlet	92	94	99	88	85	80	77	72	93
1530	1.5	Inlet	99	96	102	91	89	86	84	80	97
		Outlet	104	100	106	95	93	89	86	81	101
	3	Inlet	98	94	101	90	87	84	82	79	95
		Outlet	102	99	105	93	91	87	84	80	99
	5	Inlet	97	92	99	88	85	81	79	75	93
		Outlet	95	98	104	93	90	84	81	76	98

330 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
550	1	Inlet	75	73	65	63	61	57	52	48	66
		Outlet	79	74	67	66	64	59	56	53	69
680	1	Inlet	81	84	75	70	69	67	61	54	75
		Outlet	83	86	76	74	72	69	62	54	78
	1.5	Inlet	79	82	72	68	67	63	58	54	73
		Outlet	81	84	74	71	70	65	61	58	75
810	1	Inlet	84	90	82	76	74	73	68	61	81
		Outlet	86	92	82	80	78	75	70	63	84
	2	Inlet	81	87	78	73	71	69	63	59	78
		Outlet	84	92	80	76	74	71	65	60	81
940	1	Inlet	87	92	87	81	78	77	73	68	85
		Outlet	91	96	89	85	82	80	75	69	88
	2	Inlet	85	90	85	79	76	74	70	65	83
		Outlet	89	95	87	83	79	76	72	66	86
	3	Inlet	84	87	81	75	73	71	67	63	80
		Outlet	85	91	84	79	76	74	69	65	83
1070	1	Inlet	91	93	92	85	82	80	77	73	89
		Outlet	96	98	95	89	86	83	79	74	93
	2	Inlet	90	92	90	83	80	78	75	71	87
		Outlet	94	96	93	87	84	80	77	72	90
	4	Inlet	88	88	85	79	76	74	71	67	83
		Outlet	88	92	90	83	79	76	72	68	86
1200	1	Inlet	95	95	96	88	85	83	81	76	92
		Outlet	101	100	101	92	89	86	82	77	96
	3	Inlet	93	93	94	85	83	80	77	74	90
		Outlet	96	97	98	89	86	82	79	75	93
	5	Inlet	92	89	90	82	79	76	74	71	86
		Outlet	91	94	94	86	82	78	75	71	90
1330	1	Inlet	98	97	100	91	88	86	84	80	96
		Outlet	104	102	105	95	93	89	86	81	100
	3	Inlet	97	95	99	89	86	83	81	78	94
		Outlet	101	99	102	92	90	86	83	79	97
	6	Inlet	97	91	94	84	82	79	77	73	89
		Outlet	93	95	98	88	85	81	78	74	93
1460	1	Inlet	101	98	104	93	91	88	86	82	99
		Outlet	107	103	109	97	95	91	89	84	103
	4	Inlet	100	95	102	91	88	85	83	80	96
		Outlet	103	100	105	94	92	88	85	81	100
	8	Inlet	99	91	96	86	83	81	79	76	91
		Outlet	94	96	101	91	88	83	80	76	95

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{Wj}, L_{Wj}A and outlet L_{Wo}, L_{Wo}A sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

365 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
500	1	Inlet	74	79	71	66	62	58	54	54	70
		Outlet	79	83	73	68	64	59	56	58	72
620	1	Inlet	80	87	81	74	71	68	63	61	78
		Outlet	83	90	82	76	73	68	64	61	80
	1.5	Inlet	76	86	78	72	68	64	59	58	76
		Outlet	80	90	80	74	70	65	61	61	79
740	1	Inlet	85	92	86	80	76	73	69	65	84
		Outlet	89	95	87	82	78	75	71	67	85
	2	Inlet	80	90	82	76	72	69	65	62	80
		Outlet	84	92	85	79	74	70	66	63	82
860	1	Inlet	89	96	90	84	80	77	75	70	88
		Outlet	93	99	90	87	83	79	77	71	90
	2	Inlet	86	95	88	81	78	75	72	68	85
		Outlet	90	96	88	84	80	76	72	68	87
	3	Inlet	82	92	84	78	75	71	68	65	82
		Outlet	87	91	86	81	77	73	70	67	84
980	1	Inlet	93	100	94	87	84	81	80	74	91
		Outlet	96	102	94	90	87	83	81	75	93
	2	Inlet	90	98	93	86	82	79	77	73	90
		Outlet	94	100	92	88	85	81	78	74	92
	4	Inlet	84	94	86	80	77	74	72	68	84
		Outlet	90	93	88	84	80	76	73	70	87
1100	1	Inlet	95	102	99	91	87	84	83	78	95
		Outlet	99	104	99	94	90	86	84	79	97
	3	Inlet	91	99	97	88	84	81	79	75	93
		Outlet	95	100	97	90	87	83	80	76	94
	5	Inlet	85	95	91	84	80	77	75	71	88
		Outlet	92	95	92	87	83	79	76	73	90
1220	1	Inlet	97	104	103	94	90	87	86	81	99
		Outlet	101	106	104	96	93	90	87	83	100
	3	Inlet	94	101	102	93	88	85	83	79	97
		Outlet	98	103	102	94	91	87	84	80	98
	6	Inlet	87	96	96	87	83	80	77	74	91
		Outlet	93	96	96	90	86	82	79	76	93
1340	1	Inlet	99	106	107	97	92	90	88	84	102
		Outlet	103	107	108	99	96	92	90	86	104
	4	Inlet	95	102	105	95	90	87	85	82	100
		Outlet	99	103	106	96	93	89	86	83	101
	8	Inlet	89	97	99	89	85	82	79	76	94
		Outlet	96	99	99	92	88	84	81	78	95

402 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
450	1	Inlet	76	78	71	66	62	58	55	54	69
		Outlet	82	82	73	68	64	59	57	59	72
560	1	Inlet	82	88	81	74	71	68	64	61	78
		Outlet	85	90	82	76	73	68	64	62	80
	1.5	Inlet	79	86	77	72	68	64	60	59	76
		Outlet	82	90	80	74	71	65	61	62	79
670	1	Inlet	87	93	86	80	76	74	70	66	84
		Outlet	90	95	87	82	78	75	71	67	86
	2	Inlet	82	90	82	76	73	69	65	63	80
		Outlet	85	92	85	79	75	70	66	64	82
780	1	Inlet	91	98	90	84	80	78	75	70	88
		Outlet	94	100	90	87	83	80	77	71	90
	2	Inlet	88	96	88	82	78	75	72	68	86
		Outlet	91	97	88	85	80	76	73	69	88
	3	Inlet	84	93	84	79	75	72	69	66	83
		Outlet	88	93	86	82	77	73	70	68	85
890	1	Inlet	94	102	93	87	84	82	80	74	92
		Outlet	98	104	93	91	87	83	82	75	94
	2	Inlet	92	100	92	86	83	80	78	73	90
		Outlet	95	102	91	89	85	81	79	74	92
	4	Inlet	86	96	85	81	77	75	72	69	85
		Outlet	91	94	88	85	80	76	73	70	87
1000	1	Inlet	97	104	98	91	88	85	83	78	95
		Outlet	100	106	98	94	91	87	85	79	97
	3	Inlet	93	101	96	89	85	82	79	75	93
		Outlet	96	102	95	91	87	83	80	76	94
	5	Inlet	87	97	90	84	81	78	75	72	88
		Outlet	93	96	92	88	84	79	76	73	90
1110	1	Inlet	99	106	102	94	90	88	86	81	99
		Outlet	102	107	103	97	94	90	88	83	101
	3	Inlet	96	103	101	93	89	86	83	80	97
		Outlet	99	105	101	94	91	87	85	81	98
	6	Inlet	89	98	95	87	84	80	78	75	91
		Outlet	94	98	95	91	87	82	79	76	93
1220	1	Inlet	101	107	106	97	93	90	89	84	102
		Outlet	104	109	107	100	96	93	91	86	104
	4	Inlet	97	104	105	95	91	88	85	82	100
		Outlet	100	105	105	96	93	89	87	83	101
	8	Inlet	91	99	98	89	85	82	80	77	94
		Outlet	97	100	99	93	89	84	81	79	96

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet L_{Wi}, L_{WA} and outlet L_{Wo}, L_{WA} sound power levels for Installation Type B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

CPS-A & CPA-A Size 445 & 490 Sound Data

445 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
450	1	Inlet	81	83	75	70	67	63	60	59	74
		Outlet	85	86	78	72	68	63	60	59	76
550	1	Inlet	86	91	83	77	74	71	67	64	81
		Outlet	89	92	84	79	76	72	68	65	83
	1.5	Inlet	84	88	81	75	72	68	64	63	79
		Outlet	87	91	83	77	73	68	64	63	81
650	1	Inlet	91	96	88	82	79	76	72	68	86
		Outlet	94	97	89	85	81	78	74	69	88
	2	Inlet	87	93	85	79	75	72	69	66	83
		Outlet	90	94	87	82	77	73	69	66	85
750	1	Inlet	95	101	91	86	83	80	77	72	91
		Outlet	98	103	92	89	85	82	79	73	93
	2	Inlet	92	100	90	84	81	78	75	71	89
		Outlet	95	101	90	87	83	79	76	72	90
	3	Inlet	88	97	86	81	77	74	71	68	86
		Outlet	91	96	88	84	80	76	72	69	87
850	1	Inlet	98	104	95	89	86	84	82	76	94
		Outlet	100	106	95	93	89	85	84	77	96
	2	Inlet	95	103	94	88	85	82	80	75	93
		Outlet	98	105	93	91	87	83	81	76	94
	4	Inlet	89	99	88	83	80	77	74	71	88
		Outlet	93	97	90	87	83	78	76	72	89
950	1	Inlet	100	106	99	92	89	87	86	80	97
		Outlet	103	108	99	96	92	89	87	81	99
	3	Inlet	96	104	98	91	87	84	82	78	95
		Outlet	99	106	97	93	90	86	83	79	96
	5	Inlet	90	101	92	86	83	80	77	74	91
		Outlet	95	99	94	90	86	81	78	75	92
1050	1	Inlet	102	108	103	96	92	90	88	83	100
		Outlet	105	110	103	99	95	92	90	84	102
	3	Inlet	99	106	102	94	90	88	85	81	99
		Outlet	101	108	102	96	93	89	87	82	100
	6	Inlet	92	102	97	89	86	83	80	76	94
		Outlet	97	101	97	93	89	84	81	78	95

490 CPS-A & CPA-A

RPM	SP	Condition	SOUND POWER re 10 ⁻¹² WATTS								L _W A
			OCTAVE BANDS								
			1	2	3	4	5	6	7	8	
350	1	Inlet	78	73	68	65	61	56	55	55	68
		Outlet	85	77	70	67	62	58	62	68	72
440	1	Inlet	85	86	79	73	70	67	64	62	77
		Outlet	88	88	81	75	71	66	63	62	79
	1.5	Inlet	82	83	75	71	68	63	60	60	74
		Outlet	87	86	77	73	69	64	64	68	77
530	1	Inlet	90	92	85	79	76	73	69	66	83
		Outlet	92	93	86	82	78	74	70	67	85
	2	Inlet	86	89	80	76	72	68	64	63	79
		Outlet	88	91	83	78	74	70	66	66	82
620	1	Inlet	94	97	89	83	80	78	74	70	88
		Outlet	97	98	90	86	83	80	76	70	90
	2	Inlet	91	95	86	81	78	75	71	68	85
		Outlet	93	96	88	84	79	75	71	68	87
	3	Inlet	87	91	82	78	75	72	68	66	82
		Outlet	90	93	85	81	77	73	70	69	84
710	1	Inlet	98	103	92	87	84	82	79	73	92
		Outlet	101	104	93	91	87	84	81	74	94
	2	Inlet	96	101	91	86	83	80	77	73	91
		Outlet	98	103	91	88	85	81	78	74	92
	4	Inlet	90	96	84	80	77	75	72	69	85
		Outlet	93	95	88	84	80	76	73	70	87
800	1	Inlet	100	106	96	91	88	85	83	77	96
		Outlet	103	108	97	94	90	87	85	78	98
	3	Inlet	96	104	93	88	84	82	79	75	93
		Outlet	98	105	94	91	87	83	80	75	94
	5	Inlet	91	99	88	83	80	78	75	72	88
		Outlet	95	98	91	87	83	79	77	73	90
890	1	Inlet	102	109	99	94	91	88	87	81	99
		Outlet	105	110	100	97	94	90	89	82	101
	3	Inlet	99	107	98	92	89	86	84	79	97
		Outlet	101	108	97	95	91	87	85	80	98
	6	Inlet	93	102	91	86	83	80	78	75	91
		Outlet	97	100	94	90	86	82	79	76	93
980	1	Inlet	104	110	103	97	93	91	90	84	101
		Outlet	106	112	103	100	96	93	91	85	103
	3	Inlet	101	108	102	95	92	89	87	82	100
		Outlet	103	110	102	98	94	90	88	83	101
	6	Inlet	95	105	97	91	87	84	81	78	95
		Outlet	99	104	98	95	90	86	82	79	97

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. The A-weighted sound ratings shown have been calculated per AMCA International 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 B: free inlet, ducted outlet. Inlet ratings do not include the effects of duct end correction. Outlet ratings include the effects of duct end correction.

6 CPFD

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								
		OCTAVE BANDS								L _W A
		1	2	3	4	5	6	7	8	
860	0.125	52	56	56	56	54	51	48	45	59
	0.125	62	64	65	64	63	60	57	54	68
	0.250	60	62	64	63	61	58	55	52	66
1140	0.375	59	60	62	61	59	56	53	49	64
	0.125	76	75	78	77	74	72	69	66	80
	0.250	75	75	77	76	74	71	68	65	79
1725	0.375	73	74	77	76	73	71	68	64	78
	0.500	72	73	76	75	73	70	67	63	78
	0.625	72	72	75	74	72	69	66	62	77
	0.750	72	71	74	74	71	68	65	61	76

7 CPFD

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								
		OCTAVE BANDS								L _W A
		1	2	3	4	5	6	7	8	
860	0.125	57	60	60	58	56	54	51	48	61
	0.250	53	57	57	56	53	50	47	44	59
1140	0.125	68	68	69	67	65	62	59	57	70
	0.250	67	67	68	66	64	61	58	55	69
	0.375	64	65	66	65	63	59	56	52	67
1725	0.125	84	79	80	80	77	74	71	68	82
	0.250	84	79	80	80	76	73	70	68	82
	0.375	83	78	80	79	76	72	70	67	81
	0.500	83	78	80	79	75	72	69	66	81
	0.625	82	77	79	78	74	71	68	65	80
	0.750	80	76	79	78	74	70	68	64	79
	1.000	77	74	77	76	73	69	66	62	78

9 CPFD

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								
		OCTAVE BANDS								L _W A
		1	2	3	4	5	6	7	8	
860	0.125	65	66	66	64	65	63	59	54	70
	0.250	63	64	63	61	63	61	56	51	67
	0.375	60	63	65	61	62	59	54	49	66
1140	0.125	76	72	77	74	73	71	68	63	78
	0.250	75	71	76	70	72	70	67	62	77
	0.375	73	70	75	66	71	69	65	60	75
	0.500	71	69	74	64	70	68	64	59	74
	0.625	70	68	74	68	69	67	63	57	74
1725	0.250	84	87	86	87	82	82	79	76	89
	0.375	83	86	86	86	82	81	79	75	88
	0.500	83	86	85	85	81	81	78	74	88
	0.625	82	85	85	84	80	80	78	73	87
	0.750	81	84	84	83	79	80	77	73	86
	1.000	80	83	84	81	77	79	76	71	85
	1.250	79	82	83	81	77	78	75	70	84
	1.500	77	81	82	83	78	77	74	69	85

10 CPFD

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								
		OCTAVE BANDS								L _W A
		1	2	3	4	5	6	7	8	
860	0.125	72	74	75	70	68	63	58	52	73
	0.250	71	73	74	69	66	61	56	50	72
	0.375	69	72	73	68	65	60	55	49	71
	0.500	67	72	72	67	65	59	54	48	70
1140	0.125	80	79	84	78	76	72	67	62	81
	0.250	78	78	83	77	76	71	66	61	81
	0.375	77	78	83	77	75	70	65	60	80
	0.500	76	77	82	76	74	69	64	58	79
	0.625	74	77	81	76	74	68	64	58	79
	0.750	73	76	81	75	74	68	63	57	78
1725	0.125	89	91	90	85	85	83	79	75	90
	0.250	89	91	90	85	85	83	79	75	90
	0.375	88	90	90	84	84	82	79	74	90
	0.500	87	90	90	84	84	82	79	74	89
	0.625	87	90	90	84	84	82	78	74	89
	0.750	86	90	90	84	84	82	78	73	89
	1.000	85	89	89	83	83	81	77	73	88
	1.250	83	89	89	83	83	81	77	72	88
	1.500	82	88	88	82	82	80	77	72	87
	1.750	81	88	88	82	81	80	76	71	87

12 CPFD

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								
		OCTAVE BANDS								L _W A
		1	2	3	4	5	6	7	8	
860	0.125	81	80	77	73	71	68	64	59	76
	0.250	79	79	76	71	69	65	62	56	75
	0.375	77	78	75	69	67	63	60	53	73
	0.500	76	78	74	68	66	62	58	52	72
	0.625	74	77	73	67	65	62	57	51	71
1140	0.125	90	89	86	82	80	75	74	68	85
	0.250	89	89	86	81	79	74	73	67	84
	0.375	88	88	85	80	78	73	71	65	84
	0.500	87	88	85	79	77	72	70	64	83
	0.625	85	87	84	79	76	70	69	62	82
	0.750	83	87	84	78	75	70	68	61	81
	1.000	81	87	83	77	74	69	67	60	80
1725	0.125	99	102	99	95	90	88	84	81	97
	0.250	98	102	99	95	89	87	84	81	97
	0.375	98	102	99	95	89	87	83	80	97
	0.500	97	101	99	94	89	86	83	80	96
	0.625	97	101	99	94	88	86	82	79	96
	0.750	96	101	99	94	88	86	82	78	96
	1.000	95	100	98	93	87	85	81	77	95
	1.250	93	99	98	93	86	84	80	76	95
	1.500	92	98	97	92	85	83	79	75	94
	1.750	91	97	97	92	85	82	78	74	93
	2.000	89	96	97	91	84	81	78	74	93

100 CPFB

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								
		OCTAVE BANDS								L _W A
		1	2	3	4	5	6	7	8	
400	0.125	56	55	54	53	49	45	40	34	54
	0.125	66	71	67	65	62	59	56	51	68
600	0.250	64	69	66	65	61	57	53	47	66
	0.125	73	80	77	73	70	67	64	61	76
800	0.250	71	78	77	72	70	66	63	59	75
	0.375	69	77	76	72	69	65	62	57	75
	0.500	68	76	74	72	69	64	60	55	74
	0.250	76	84	84	80	77	73	70	66	83
1000	0.375	75	83	84	79	76	72	69	65	82
	0.500	73	82	84	79	75	72	68	64	81
	0.625	73	81	82	78	75	71	67	63	81
	0.750	72	80	81	78	76	71	67	62	80
	1.250	75	83	86	82	81	76	71	66	85
1200	1.750	78	86	91	86	84	80	75	71	89

120 CPFB

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								
		OCTAVE BANDS								L _{WA}
		1	2	3	4	5	6	7	8	
375	0.125	60	58	54	53	52	49	43	37	56
575	0.125	71	77	73	68	65	64	62	56	72
	0.25	70	74	70	66	63	62	58	52	70
	0.375	67	70	65	62	60	57	53	46	65
775	0.125	76	85	83	78	74	72	71	66	81
	0.25	76	84	82	77	73	71	69	65	80
	0.375	76	83	81	75	72	70	68	63	79
	0.5	75	81	79	73	70	68	66	60	77
	0.75	73	77	74	69	66	64	61	54	73
975	0.125	80	89	91	86	81	78	77	74	88
	0.25	80	88	91	85	80	77	76	73	88
	0.5	80	88	89	83	79	76	74	71	86
	0.75	79	86	87	81	77	74	72	68	84
	1	78	84	84	78	74	72	69	64	81
	1.25	76	82	81	75	72	69	66	61	78
1175	1	83	91	94	88	82	79	78	75	90
	1.5	81	88	90	84	79	76	74	70	86
	1.75	80	87	88	82	77	75	72	67	84
1375	1.75	85	93	97	91	84	82	80	77	93
	2	84	92	95	89	83	80	78	75	91

CPFD & CPFB Sound Data

150 CPFB

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								
		OCTAVE BANDS								L _W A
		1	2	3	4	5	6	7	8	
300	0.125	64	59	58	56	52	50	45	39	58
400	0.125	74	76	71	70	65	63	61	56	72
	0.250	68	68	62	62	58	55	51	45	64
500	0.125	78	84	76	78	71	70	68	63	79
	0.250	77	84	76	76	70	68	67	61	78
	0.375	73	78	68	70	64	61	59	53	71
600	0.125	81	88	83	82	77	74	73	69	84
	0.250	81	88	83	81	77	73	72	68	83
	0.375	80	87	82	79	75	72	70	66	82
	0.500	78	83	77	75	71	68	65	60	77
	0.625	75	80	72	70	67	63	60	54	73
700	0.500	83	90	88	83	81	76	74	71	86
	0.625	81	88	85	80	77	73	71	67	83
	0.750	79	85	82	76	74	70	67	63	80
800	1.000	81	88	87	79	78	73	70	66	84
900	1.500	81	88	88	78	78	73	69	66	84

180 CPFB

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								
		OCTAVE BANDS								L _W A
		1	2	3	4	5	6	7	8	
300	0.125	70	69	66	64	61	59	53	46	67
400	0.125	78	81	72	73	70	69	63	57	76
	0.25	76	79	71	72	68	67	61	55	74
	0.375	71	73	64	68	62	57	52	54	68
500	0.125	83	87	81	79	76	75	71	65	82
	0.25	82	86	80	78	75	73	69	63	81
	0.375	80	85	80	78	74	72	68	62	80
	0.5	77	81	76	75	71	67	63	60	77
	0.625	74	78	72	71	67	62	57	57	73
600	0.125	87	92	88	84	81	79	77	71	87
	0.25	86	91	88	83	81	78	76	70	87
	0.375	85	90	87	83	80	77	75	69	86
	0.5	83	89	87	82	80	77	74	68	86
	0.75	80	85	82	78	76	71	67	63	81
700	0.625	86	93	93	86	84	80	79	73	90
	1	83	89	88	81	81	76	72	67	86
	1.25	80	86	84	77	78	71	66	62	82
800	1.5	83	91	91	81	83	77	73	67	88
	1.75	81	88	88	77	81	74	68	62	85
900	2	85	92	93	84	85	80	74	69	90

220 CPFB

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								
		OCTAVE BANDS								L _W A
		1	2	3	4	5	6	7	8	
200	0.125	66	59	58	56	52	47	40	35	58
300	0.125	82	79	72	71	68	66	61	55	74
	0.250	79	76	70	68	65	61	55	49	70
400	0.125	90	91	81	79	76	75	70	65	83
	0.250	89	89	80	78	75	73	69	63	82
	0.500	85	85	77	75	71	67	62	56	77
500	0.125	94	97	91	85	83	80	77	72	89
	0.250	93	97	90	84	82	79	76	71	89
	0.500	92	95	89	83	80	78	74	69	87
	0.750	90	92	86	80	78	74	69	63	84
	1.000	87	89	83	78	75	70	64	57	81
600	0.750	95	100	96	88	85	82	79	74	92
	1.000	93	98	93	86	83	80	76	70	90
	1.250	91	97	91	84	81	78	72	66	88
	1.500	89	95	89	82	80	75	69	62	86
700	1.500	95	102	99	88	87	83	79	73	94
	1.750	94	101	97	86	85	82	76	70	93
	2.000	92	99	96	85	84	80	74	67	91

250 CPFB

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								
		OCTAVE BANDS								L _W A
		1	2	3	4	5	6	7	8	
200	0.125	70	66	64	62	59	54	48	42	64
300	0.125	84	82	74	74	71	68	63	57	77
	0.250	82	81	74	74	70	67	62	55	76
400	0.125	90	92	85	82	79	76	72	66	85
	0.250	89	91	85	81	78	75	71	65	84
	0.500	86	89	83	80	78	74	69	63	83
	0.750	83	85	81	79	76	71	65	58	81
500	0.125	95	99	94	87	85	82	78	73	92
	0.250	94	98	93	87	85	81	78	72	91
	0.500	92	97	92	86	84	81	77	72	90
	0.750	90	95	91	86	84	80	76	70	90
	1.000	88	93	89	85	83	79	74	68	88
	1.250	86	91	87	84	82	77	71	65	87
600	1.250	92	99	97	89	88	85	81	75	94
	1.500	91	98	95	88	88	84	79	73	93
	1.750	89	96	93	88	87	83	77	71	92

270 CPFB

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								
		OCTAVE BANDS								L _W A
		1	2	3	4	5	6	7	8	
150	0.125	63	60	58	55	52	46	41	35	57
250	0.125	86	81	75	74	71	69	64	59	77
	0.250	83	79	75	72	70	67	62	56	75
350	0.125	93	93	86	83	81	78	75	70	87
	0.250	91	92	86	82	80	77	74	68	86
	0.500	89	90	84	81	78	75	71	66	84
	0.750	85	85	81	77	73	69	64	58	79
	1.000	82	87	82	77	73	69	64	58	76
450	0.125	97	102	95	89	87	85	82	77	94
	0.250	97	102	95	89	87	85	82	77	94
	0.500	95	100	94	88	86	83	81	75	93
	0.750	94	99	93	88	85	82	79	74	92
	1.000	91	96	90	86	82	80	76	70	89
	1.250	89	94	88	84	79	76	72	66	87
550	1.500	87	92	85	81	77	73	66	60	83
	1.250	97	103	98	93	90	87	84	79	96
	1.500	95	101	97	91	88	85	81	76	95
	1.750	93	100	95	90	86	83	79	73	93
	2.000	92	98	93	89	84	81	76	70	91

300 CPFB

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								
		OCTAVE BANDS								L _W A
		1	2	3	4	5	6	7	8	
150	0.125	65	60	61	59	56	51	44	38	60
225	0.125	88	75	72	72	69	68	62	56	75
	0.25	85	72	70	70	67	65	59	53	73
300	0.125	95	89	81	79	77	76	72	66	83
	0.5	90	84	77	77	74	71	66	59	79
	0.125	99	99	88	84	83	81	79	73	90
375	0.5	97	97	86	83	81	79	76	71	88
	0.75	95	95	83	82	80	77	73	67	86
	1	92	92	80	79	79	73	68	61	83
	0.125	103	108	94	89	88	85	84	79	96
450	0.5	101	106	92	88	87	84	83	77	94
	0.75	100	105	91	87	86	83	82	76	93
	1	98	104	89	86	85	82	80	74	92
	1.5	95	100	85	82	84	78	73	66	89
525	0.75	103	110	98	92	90	88	87	82	98
	1	102	109	97	91	90	87	86	81	98
	1.5	100	107	94	89	89	85	83	77	96
	2	98	104	91	86	88	83	78	71	93
600	1.75	103	110	102	94	92	90	87	83	100
	2	102	109	100	93	92	89	86	81	99

The sound power level ratings shown are in decibels, referred to 10⁻¹² watts, calculated per AMCA International Standard 301. Values shown are for inlet L_Wi and L_WA sound power levels for Installation Type B: free inlet, ducted



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