

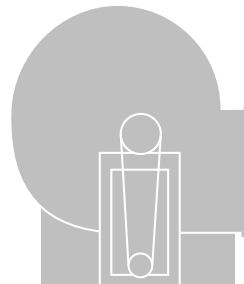
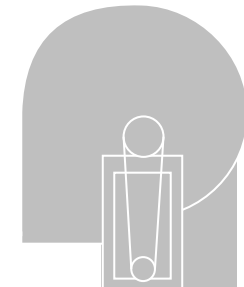
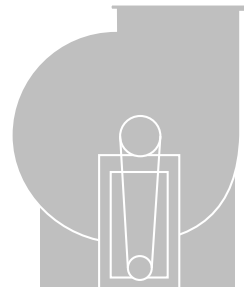
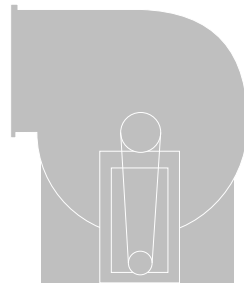
CP



COOK



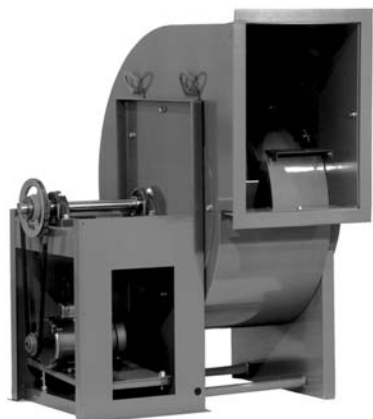
Steel and Aluminum Vent Sets



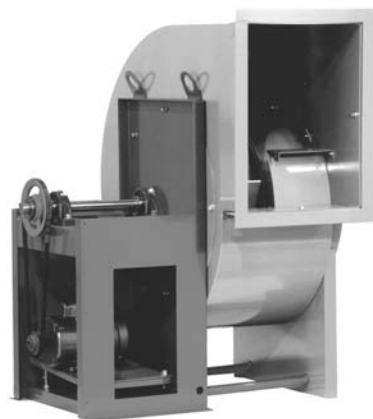
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INTRODUCTION

Loren Cook CP Series centrifugal vent sets offer durability and reliability in a self-contained package. The CP vent sets are ideal for low to medium volume and pressure applications and are available in a number of wheel options for maximum performance flexibility. All units are produced in an ISO 9001 certified facility and are listed by Underwriters Laboratory (UL 705) and UL Listed for Canada (cUL 705).



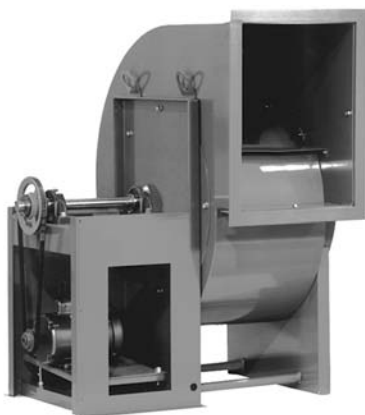
CPV, CPS, CPS-A,



CPA, CPA-A



CPFD



CPFB

- 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.

CPV

- Utilizes a backward inclined flat blade, aluminum wheel and steel housing.
- Licensed to bear AMCA Certified Ratings Seals for Air and Sound Performance.
- UL/cUL 762 listing is available for restaurant applications.
- Available in 20 belt drive sizes from 60 to 490. Performance ranges from 50 to 43400 CFM with static pressures from .250 to 2.5 inches.

CPS/CPA

- CPS utilizes a backward inclined flat blade, steel wheel and steel housing.
- CPA utilizes a backward inclined flat blade, aluminum wheel and aluminum housing.
- Licensed to bear AMCA Certified Ratings Seals for Air Performance.
- Available with UL/cUL 762 listing for restaurant applications.
- CPS is available with UL/cUL listing for "Power Ventilator for Smoke Control Systems".
- CPA is considered to be Spark Resistant Type A construction, see page 20 for details.
- Available in 20 belt drive sizes from 60 to 490. Performance ranges from 70 to 49150 CFM with static pressures from 1 to 5 inches.

CPS-A/CPA-A

- CPS-A utilizes a backward inclined airfoil blade, steel wheel and a steel housing.
- CPA-A utilizes a backward inclined airfoil blade, aluminum wheel and aluminum housing.
- Licensed to bear AMCA Certified Ratings Seals for Air and Sound Performance.
- Available with UL/cUL 762 listing for restaurant applications.
- CPS-A is available with UL/cUL listing for "Power Ventilator for Smoke Control Systems".
- CPA-A is considered to be Spark Resistant Type A construction, see page 20 for details.
- Performance ranges from 500 to 63550 CFM with static pressures from 1 to 5 inches.
- Available in 16 sizes from 120 to 490.

CPFD

- Arrangement 4 unit utilizing a forward curved, steel wheel and steel housing.
- Licensed to bear AMCA Certified Ratings Seals for Air and Sound Performance.
- Available in 5 direct drive sizes from 6 to 12. Performance ranges from 250 to 2600 CFM with static pressures from .125 to 2 inches.

CPFB

- Utilizes a forward curve, steel wheel and steel housing.
- Licensed to bear AMCA Certified Ratings Seals for Air and Sound Performance.
- Available in 8 belt drive sizes from 100 to 300. Performance ranges from 500 to 25000 CFM with static pressures from .125 to 3 inches.

**CP
(Belt Drive)**

Lorenized®
Powder Coating

Continuously Welded
Housing

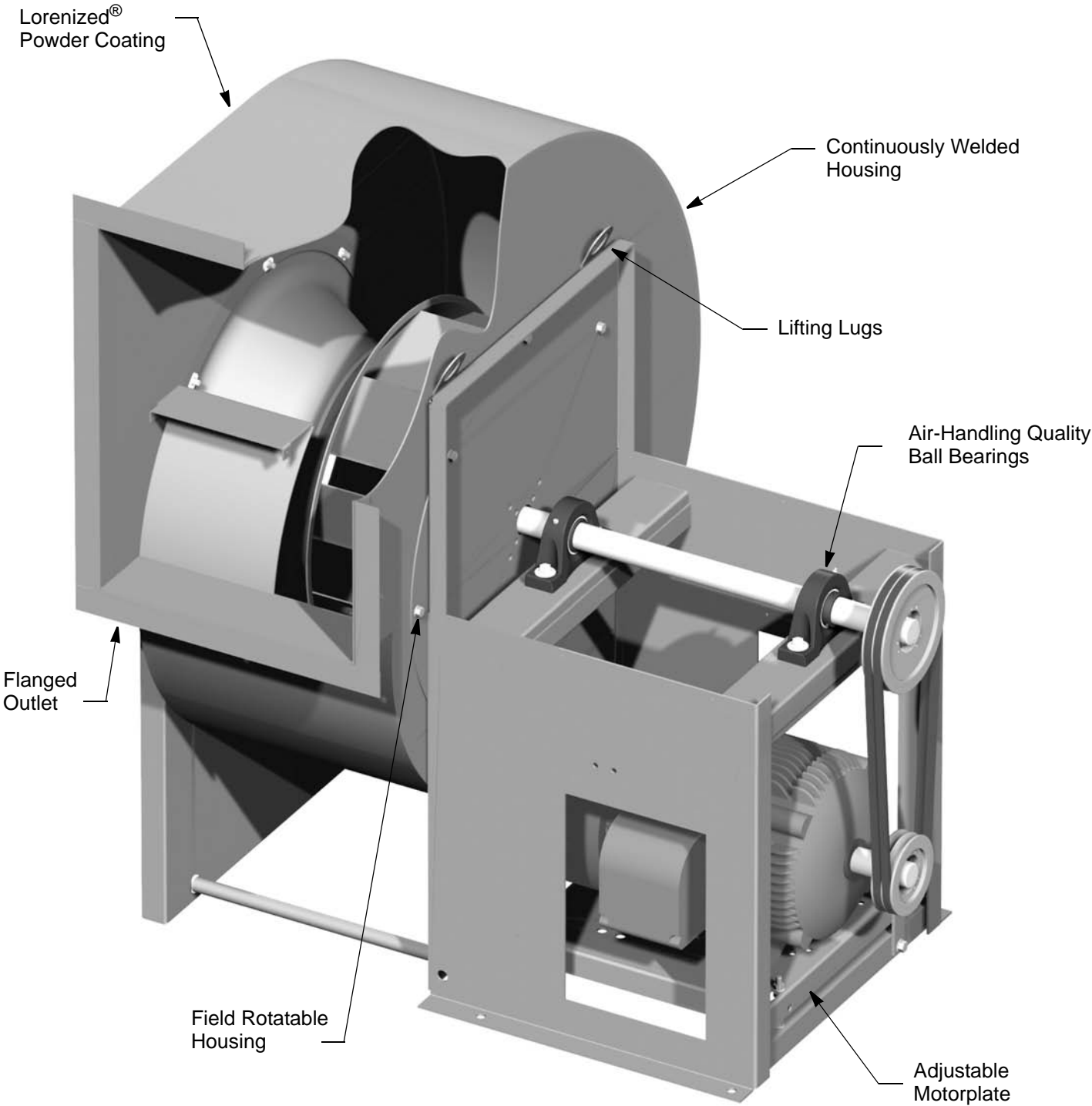
Lifting Lugs

Air-Handling Quality
Ball Bearings

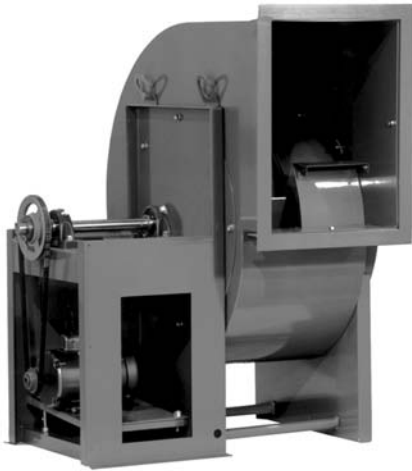
Flanged
Outlet

Field Rotatable
Housing

Adjustable
Motorplate



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 204-96, Balance Quality and Vibration Levels for Fans.

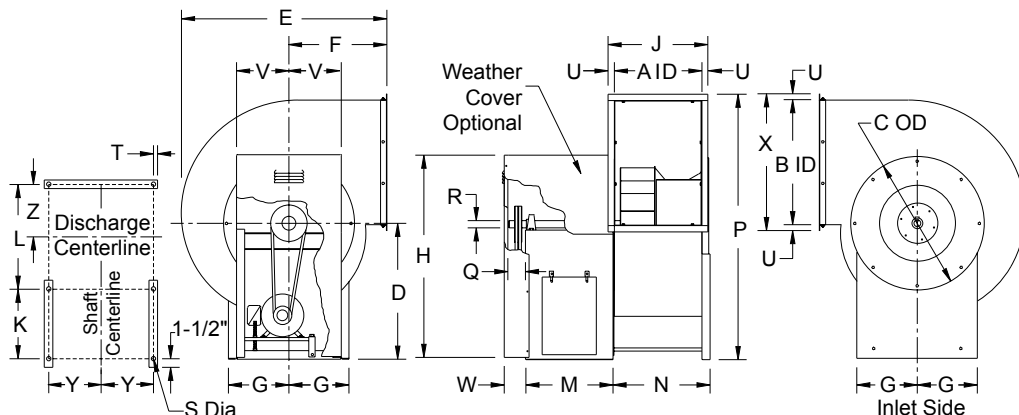
Motor - Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.

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

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



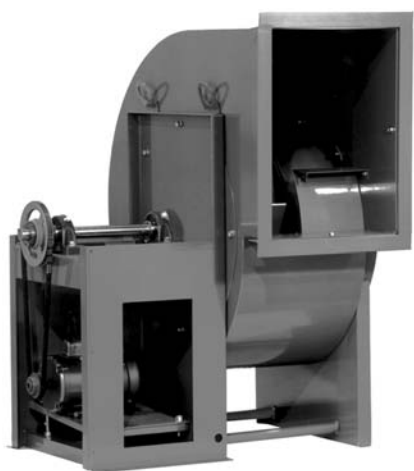
CPV Dimension Data

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	10-11/16	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	10-11/16	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	10-11/16	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	10-11/16	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	12-5/16	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	13-7/16	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	14-9/16	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	15-3/4	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	16-7/8	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	18-1/16	15	17-11/16	18-1/8
210	16-1/16	23	25-15/16	25-3/8	39-15/16	20	11-3/8	38-7/8	19-3/16	15	18-13/16	18-1/8
225	17-3/16	24-5/8	27-7/16	27	42	20-5/8	11-7/8	41	20-5/16	15	20	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	22-7/8	15	21-3/4	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	24-3/4	18	23-5/8	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	27-1/16	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	29-3/8	18	28-3/8	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	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	35	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	38-1/4	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	41-11/16	25	41-3/8	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	1-1/2	8-1/16	4-1/16	14-1/16	8-5/16	4-11/16	145T	164
70	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	8-5/16	4-11/16	145T	164
80	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	8-5/16	4-11/16	145T	164
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	8-5/16	4-11/16	145T	164
120	11	32-9/16	3	3/4	9/16	3/4	1-1/2	8-1/16	4-1/16	16-1/4	8-5/8	5-1/2	184T	203
135	12-1/8	34-3/16	3	3/4	9/16	3/4	1-1/2	8-1/16	4-1/16	17-7/8	8-5/8	6-1/16	184T	235
150	13-1/4	37-1/8	3	3/4	9/16	3/4	1-1/2	8-1/16	4-1/16	19-9/16	8-5/8	6-5/8	184T	268
165	14-7/16	39-7/8	3	3/4	9/16	3/4	1-1/2	8-1/16	4-1/16	21-3/16	8-5/8	7-1/4	184T	303
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	340
195	16-13/16	46-3/8	3	1	9/16	3/4	1-1/2	9-1/16	4-1/16	24-7/16	9-5/8	8-3/8	215T	379
210	17-15/16	49-3/4	4	1	9/16	3/4	1-1/2	10-1/16	5-1/16	26-1/8	10-5/8	9	215T	420
225	19-1/8	53	4	1	9/16	3/4	1-1/2	10-9/16	5-1/16	27-3/4	11-1/8	9-9/16	215T	465
245	21-1/8	58-1/4	4	1	11/16	1	2	11-9/16	5-1/16	30-15/16	12-3/8	10-9/16	215T	527
270	23	63-3/4	4	1	11/16	1	2	12-9/16	5-1/16	33-11/16	13-3/8	11-1/2	256T	613
300	25-15/16	71-1/4	4	1-3/16	11/16	1	2	13-9/16	5-1/16	36-15/16	14-5/16	13	256T	727
330	27-11/16	76-3/4	4	1-3/16	13/16	1	2	15-1/16	5-1/16	40-1/4	15-13/16	13-7/8	256T	854
365	30-1/4	84-1/2	5	1-3/16	13/16	1	2	16-1/16	6-1/16	44-1/16	16-13/16	15-1/8	324T	1021
402	34-1/8	92-1/2	5	1-7/16	13/16	1	2	18-1/16	6-1/16	48-1/4	18-13/16	17-1/16	324T	1220
445	37-3/8	101-3/4	5	1-7/16	13/16	1	2	20-1/16	6-1/16	52-7/8	20-13/16	18-11/16	326T	1486
490	41-3/16	111-1/2	5	1-7/16	13/16	1	2	22-1/16	6-1/16	57-13/16	22-13/16	20-5/8	326T	1804

All dimensions in inches. Weight in lbs., less motor. * Based on open drip proof, single speed. For other discharge dimensions, please consult page 18, Compute-A-Fan, an authorized representative or the factory.

Centrifugal 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 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 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 204-96, Balance Quality and Vibration Levels for Fans.

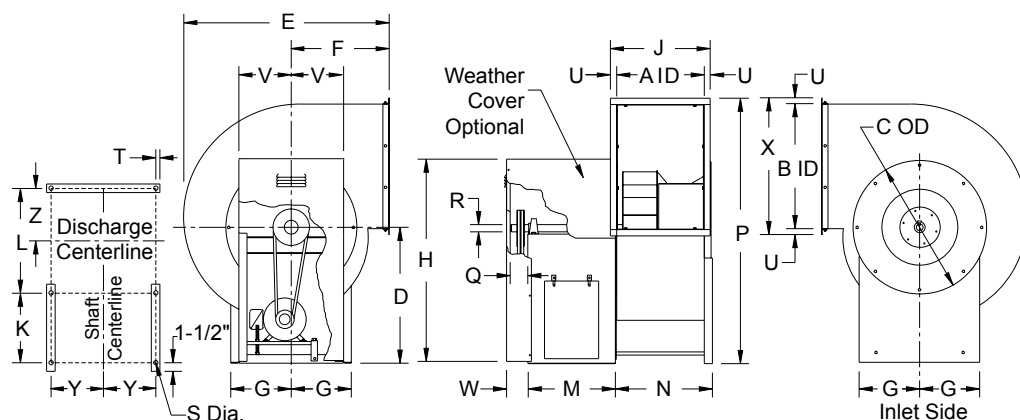
Motor - Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.

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

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

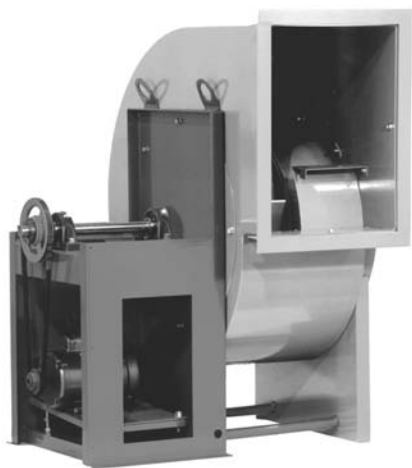

CPS Dimension Data

Size	A	B	C	D	E	F	G	H	J	K	L	M	N
60	7-9/16	10-15/16	14-1/8	18	22-1/4	12-3/4	9-3/8	25-1/4	10-11/16	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	10-11/16	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	10-11/16	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	10-11/16	10	10-1/4	13-1/8	9-3/8
120	9-3/16	13-1/8	16-1/8	18	24-13/16	13-3/8	9-3/8	26-1/4	12-5/16	10	11-7/8	13-1/8	11
135	10-5/16	14-3/4	17-5/8	18	26-11/16	13-7/8	9-3/8	27	13-7/16	12	13	15-1/8	12-1/8
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	14-9/16	12	14-1/8	15-1/8	13-1/4
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	15-3/4	12	15-5/16	15-1/8	14-7/16
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	16-7/8	12	16-7/16	15-1/8	15-5/8
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	18-1/16	15	17-11/16	18-1/8	16-13/16
210	16-1/16	23	25-15/16	25-3/8	39-15/16	20	11-3/8	38-7/8	19-3/16	15	18-13/16	18-1/8	17-15/16
225	17-3/16	24-5/8	27-7/16	27	42	20-5/8	11-7/8	41	20-5/16	15	20	18-1/8	19-1/8
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	22-7/8	15	21-3/4	18-1/8	21-1/8
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	24-3/4	18	23-5/8	21-1/8	23
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	27-1/16	18	26	21-3/16	25-15/16
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	29-3/8	18	28-3/8	21-3/16	27-11/16
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	21	30-15/16	24-3/16	30-1/4
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	35	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	38-1/4	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	41-11/16	25	41-3/8	28-3/16	41-3/16

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

All dimensions in inches. Weight in lbs., less motor. * Based on open drip proof, single speed. For other discharge dimensions, please consult page 18, Compute-A-Fan, an authorized representative or the factory.

Centrifugal 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 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 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 204-96, Balance Quality and Vibration Levels for Fans.

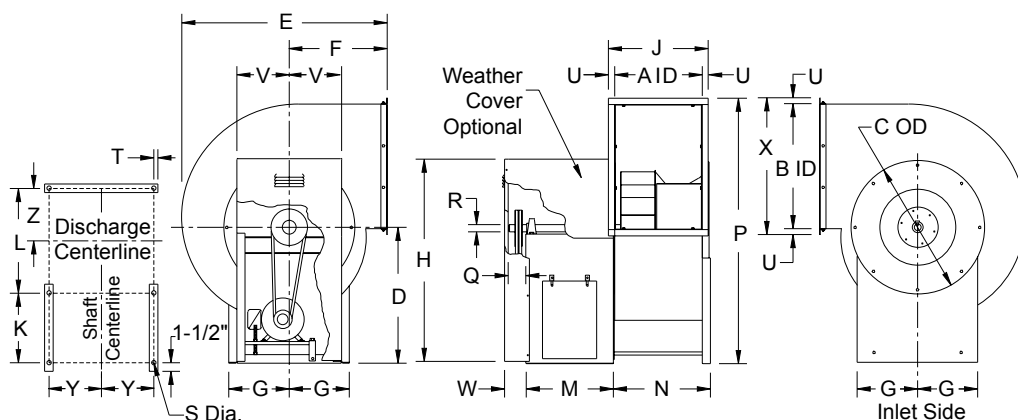
Motor - Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.

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

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

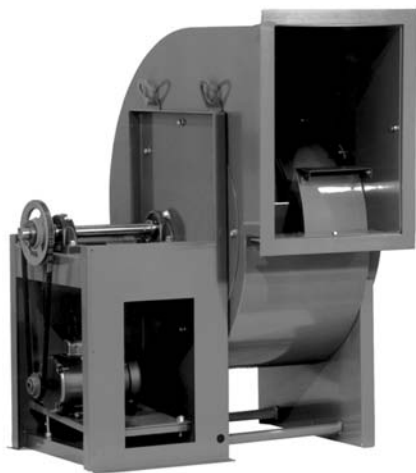

CPA Dimension Data

Size	A	B	C	D	E	F	G	H	J	K	L	M	N
60	7-9/16	10-15/16	14-1/8	18	22-1/4	12-3/4	9-3/8	25-1/4	10-11/16	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	10-11/16	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	10-11/16	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	10-11/16	10	10-1/4	13-1/8	9-3/8
120	9-3/16	13-1/8	16-1/8	18	24-13/16	13-3/8	9-3/8	26-1/4	12-5/16	10	11-7/8	13-1/8	11
135	10-5/16	14-3/4	17-5/8	18	26-11/16	13-7/8	9-3/8	27	13-7/16	12	13	15-1/8	12-1/8
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	14-9/16	12	14-1/8	15-1/8	13-1/4
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	15-3/4	12	15-5/16	15-1/8	14-7/16
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	16-7/8	12	16-7/16	15-1/8	15-5/8
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	18-1/16	15	17-11/16	18-1/8	16-13/16
210	16-1/16	23	25-15/16	25-3/8	39-15/16	20	11-3/8	38-7/8	19-3/16	15	18-13/16	18-1/8	17-15/16
225	17-3/16	24-5/8	27-7/16	27	42	20-5/8	11-7/8	41	20-5/16	15	20	18-1/8	19-1/8
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	22-7/8	15	21-3/4	18-1/8	21-1/8
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	24-3/4	18	23-5/8	21-1/8	23
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	27-1/16	18	26	21-3/16	25-15/16
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	29-3/8	18	28-3/8	21-3/16	27-11/16
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	21	30-15/16	24-3/16	30-1/4
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	35	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	38-1/4	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	41-11/16	25	41-3/8	28-3/16	41-3/16

Size	P	Q	R	S	T	U	V	W	X	Y	Z	*Max. Motor Frame	Ship Wt.
60	30-3/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	14-1/16	8-5/8	4-11/16	145T	118
70	30-3/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	14-1/16	8-5/8	4-11/16	145T	118
80	30-3/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	14-1/16	8-5/8	4-11/16	145T	118
100	30-3/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	14-1/16	8-5/8	4-11/16	145T	118
120	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	153
135	34-3/16	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	17-7/8	8-5/8	6-1/16	184T	180
150	37-1/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	19-9/16	8-5/8	6-5/8	184T	208
165	39-7/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	21-3/16	8-5/8	7-1/4	184T	237
180	43-1/8	3	1-3/16	9/16	3/4	1-1/2	9-1/16	4-1/16	22-13/16	9-5/8	7-13/16	215T	266
195	46-3/8	3	1-3/16	9/16	3/4	1-1/2	9-1/16	4-1/16	24-7/16	9-5/8	8-3/8	215T	297
210	49-3/4	4	1-7/16	9/16	3/4	1-1/2	10-1/16	5-1/16	26-1/8	10-5/8	9	215T	329
225	53	4	1-7/16	9/16	3/4	1-1/2	10-9/16	5-1/16	27-3/4	11-1/8	9-9/16	215T	361
245	58-1/4	4	1-11/16	11/16	1	2	11-9/16	5-1/16	30-15/16	12-3/8	10-9/16	215T	406
270	63-3/4	4	1-11/16	11/16	1	2	12-9/16	5-1/16	33-11/16	13-3/8	11-1/2	256T	463
300	71-1/4	4	1-15/16	11/16	1	2	13-9/16	5-1/16	36-15/16	14-5/16	13	256T	535
330	76-3/4	4	1-15/16	13/16	1	2	15-1/16	5-1/16	40-1/4	15-13/16	13-7/8	256T	609
365	84-1/2	5	2-3/16	13/16	1	2	16-1/16	6-1/16	44-1/16	16-13/16	15-1/8	324T	699
402	92-1/2	5	2-3/16	13/16	1	2	18-1/16	6-1/16	48-1/4	18-13/16	17-1/16	324T	797
445	101-3/4	5	2-7/16	13/16	1	2	20-1/16	6-1/16	52-7/8	20-13/16	18-11/16	326T	915
490	111-1/2	5	2-7/16	13/16	1	2	22-1/16	6-1/16	57-13/16	22-13/16	20-5/8	326T	1044

All dimensions in inches. Weights in lbs., less motor. * Based on open drip proof, single speed. For other discharge dimensions, please consult page 18, Compute-A-Fan, an authorized representative or the factory.

Centrifugal 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. Certified sound rating data is available upon request. Refer to catalog LW-CA SWSI/DWDI, May 1991.



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 204-96, Balance Quality and Vibration Levels for Fans.

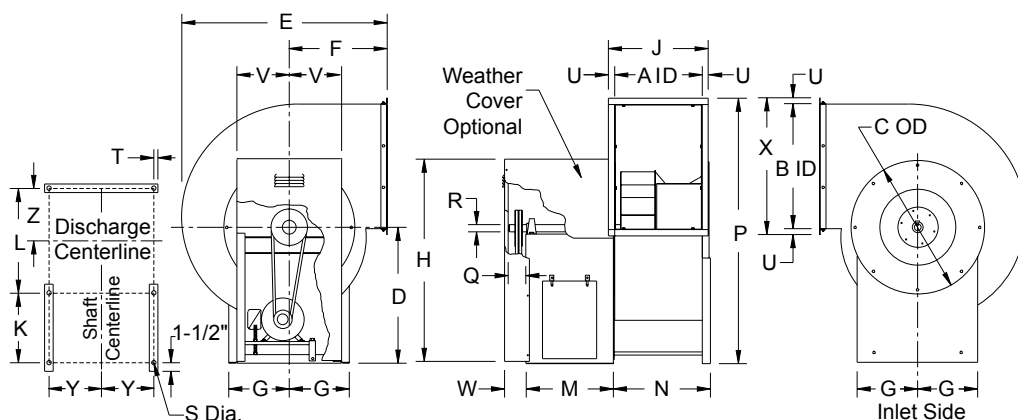
Motor - Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.

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

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



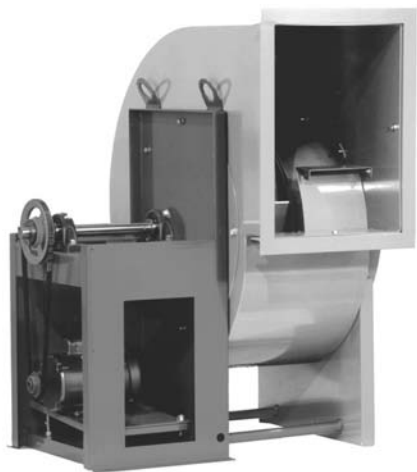
CPS-A Dimension Data

Size	A	B	C	D	E	F	G	H	J	K	L	M	N
120	9-3/16	13-1/8	16-1/8	18	24-13/16	13-3/8	9-3/8	26-1/4	12-5/16	10	11-7/8	13-1/8	11
135	10-5/16	14-3/4	17-5/8	18	26-11/16	13-7/8	9-3/8	27	13-7/16	12	13	15-1/8	12-1/8
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	14-9/16	12	14-1/8	15-1/8	13-1/4
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	15-3/4	12	15-5/16	15-1/8	14-7/16
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	16-7/8	12	16-7/16	15-1/8	15-5/8
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	18-1/16	15	17-11/16	18-1/8	16-13/16
210	16-1/16	23	25-15/16	25-3/8	39-15/16	20	11-3/8	38-7/8	19-3/16	15	18-13/16	18-1/8	17-15/16
225	17-3/16	24-5/8	27-7/16	27	42	20-5/8	11-7/8	41	20-5/16	15	20	18-1/8	19-1/8
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	22-7/8	15	21-3/4	18-1/8	21-1/8
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	24-3/4	18	23-5/8	21-1/8	23
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	27-1/16	18	26	21-3/16	25-15/16
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	29-3/8	18	28-3/8	21-3/16	27-11/16
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	21	30-15/16	24-3/16	30-1/4
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	35	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	38-1/4	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	41-11/16	25	41-3/8	28-3/16	41-3/16

Size	P	Q	R	S	T	U	V	W	X	Y	Z	*Max. Motor Frame	Ship Wt.
120	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	225
135	34-3/16	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	17-7/8	8-5/8	6-1/16	184T	260
150	37-1/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	19-9/16	8-5/8	6-5/8	184T	297
165	39-7/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	21-3/16	8-5/8	7-1/4	184T	341
180	43-1/8	3	1-3/16	9/16	3/4	1-1/2	9-1/16	4-1/16	22-13/16	9-5/8	7-13/16	215T	404
195	46-3/8	3	1-3/16	9/16	3/4	1-1/2	9-1/16	4-1/16	24-7/16	9-5/8	8-3/8	215T	450
210	49-3/4	4	1-7/16	9/16	3/4	1-1/2	10-1/16	5-1/16	26-1/8	10-5/8	9	215T	499
225	53	4	1-7/16	9/16	3/4	1-1/2	10-9/16	5-1/16	27-3/4	11-1/8	9-9/16	215T	547
245	58-1/4	4	1-11/16	11/16	1	2	11-9/16	5-1/16	30-15/16	12-3/8	10-9/16	215T	620
270	63-3/4	4	1-11/16	11/16	1	2	12-9/16	5-1/16	33-11/16	13-3/8	11-1/2	256T	736
300	71-1/4	4	1-15/16	11/16	1	2	13-9/16	5-1/16	36-15/16	14-5/16	13	256T	897
330	76-3/4	4	1-15/16	13/16	1	2	15-1/16	5-1/16	40-1/4	15-13/16	13-7/8	256T	1056
365	84-1/2	5	2-3/16	13/16	1	2	16-1/16	6-1/16	44-1/16	16-13/16	15-1/8	324T	1277
402	92-1/2	5	2-3/16	13/16	1	2	18-1/16	6-1/16	48-1/4	18-13/16	17-1/16	324T	1556
445	101-3/4	5	2-7/16	13/16	1	2	20-1/16	6-1/16	52-7/8	20-13/16	18-11/16	326T	1984
490	111-1/2	5	2-7/16	13/16	1	2	22-1/16	6-1/16	57-13/16	22-13/16	20-5/8	326T	2375

All dimensions in inches. Weights in lbs., less motor. * Based on open drip proof, single speed. For other discharge dimensions, please consult page 18, Compute-A-Fan, an authorized representative or the factory.

Centrifugal 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 204-96, Balance Quality and Vibration Levels for Fans.

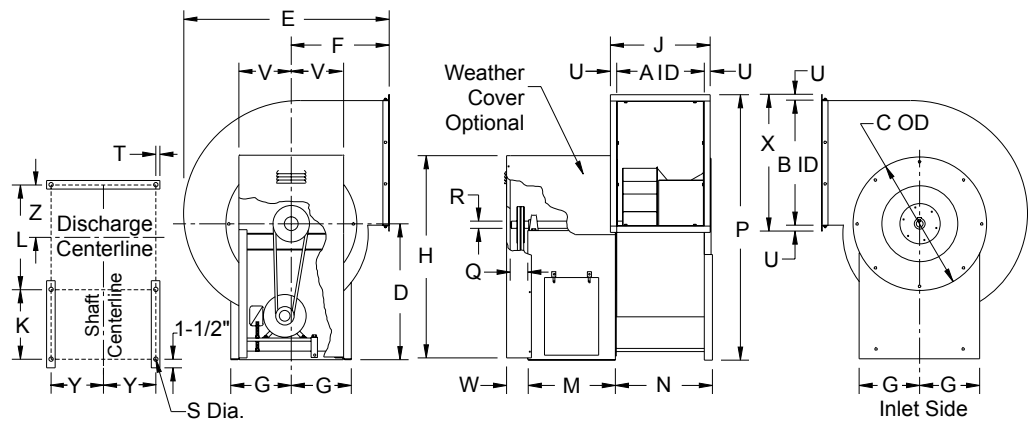
Motor - Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.

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

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



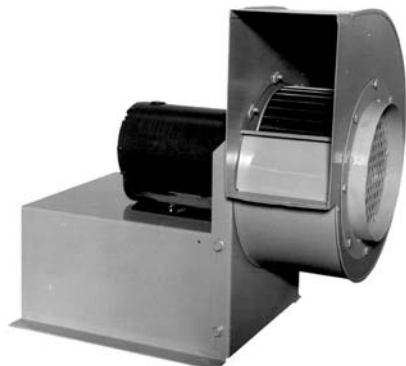
CPA-A Dimension Data

Size	A	B	C	D	E	F	G	H	J	K	L	M	N
120	9-3/16	13-1/8	16-1/8	18	24-13/16	13-3/8	9-3/8	26-1/4	12-5/16	10	11-7/8	13-1/8	11
135	10-5/16	14-3/4	17-5/8	18	26-11/16	13-7/8	9-3/8	27	13-7/16	12	13	15-1/8	12-1/8
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	14-9/16	12	14-1/8	15-1/8	13-1/4
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	15-3/4	12	15-5/16	15-1/8	14-7/16
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	16-7/8	12	16-7/16	15-1/8	15-5/8
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	18-1/16	15	17-11/16	18-1/8	16-13/16
210	16-1/16	23	25-15/16	25-3/8	39-15/16	20	11-3/8	38-7/8	19-3/16	15	18-13/16	18-1/8	17-15/16
225	17-3/16	24-5/8	27-7/16	27	42	20-5/8	11-7/8	41	20-5/16	15	20	18-1/8	19-1/8
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	22-7/8	15	21-3/4	18-1/8	21-1/8
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	24-3/4	18	23-5/8	21-1/8	23
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	27-1/16	18	26	21-3/16	25-15/16
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	29-3/8	18	28-3/8	21-3/16	27-11/16
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	21	30-15/16	24-3/16	30-1/4
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	35	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	38-1/4	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	41-11/16	25	41-3/8	28-3/16	41-3/16

Size	P	Q	R	S	T	U	V	W	X	Y	Z	*Max. Motor Frame	Ship Wt.
120	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	163
135	34-3/16	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	17-7/8	8-5/8	6-1/16	184T	191
150	37-1/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	19-9/16	8-5/8	6-5/8	184T	222
165	39-7/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	21-3/16	8-5/8	7-1/4	184T	253
180	43-1/8	3	1-3/16	9/16	3/4	1-1/2	9-1/16	4-1/16	22-13/16	9-5/8	7-13/16	215T	286
195	46-3/8	3	1-3/16	9/16	3/4	1-1/2	9-1/16	4-1/16	24-7/16	9-5/8	8-3/8	215T	320
210	49-3/4	4	1-7/16	9/16	3/4	1-1/2	10-1/16	5-1/16	26-1/8	10-5/8	9	215T	353
225	53	4	1-7/16	9/16	3/4	1-1/2	10-9/16	5-1/16	27-3/4	11-1/8	9-9/16	215T	391
245	58-1/4	4	1-11/16	11/16	1	2	11-9/16	5-1/16	30-15/16	12-3/8	10-9/16	215T	442
270	63-3/4	4	1-11/16	11/16	1	2	12-9/16	5-1/16	33-11/16	13-3/8	11-1/2	256T	505
300	71-1/4	4	1-15/16	11/16	1	2	13-9/16	5-1/16	36-15/16	14-5/16	13	256T	585
330	76-3/4	4	1-15/16	13/16	1	2	15-1/16	5-1/16	40-1/4	15-13/16	13-7/8	256T	670
365	84-1/2	5	2-3/16	13/16	1	2	16-1/16	6-1/16	44-1/16	16-13/16	15-1/8	324T	783
402	92-1/2	5	2-3/16	13/16	1	2	18-1/16	6-1/16	48-1/4	18-13/16	17-1/16	324T	898
445	101-3/4	5	2-7/16	13/16	1	2	20-1/16	6-1/16	52-7/8	20-13/16	18-11/16	326T	1040
490	111-1/2	5	2-7/16	13/16	1	2	22-1/16	6-1/16	57-13/16	22-13/16	20-5/8	326T	1191

All dimensions in inches. Weight in lbs., less motor. * Based on open drip proof, single speed. For other discharge dimensions, please consult page 18, Compute-A-Fan, an authorized representative or the factory.

Centrifugal 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.

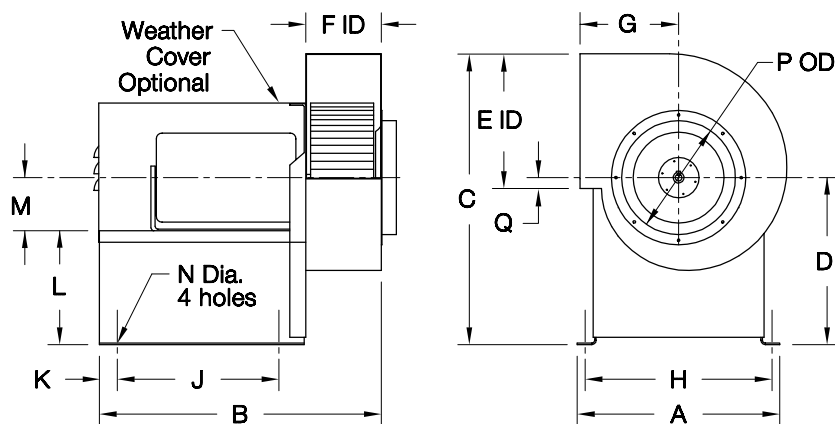
Construction - The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The fan housing shall have air tight lock seams and shall be field rotatable to any one of eight discharge positions. Motor mount shall be minimum 14 gauge steel. Unit shall bear an engraved aluminum 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 204-96, 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.



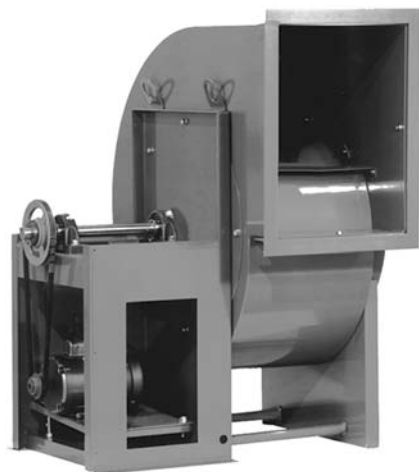
CPFD Dimension Data

Size	A	B	C Min.	C Max.	D Min.	D Max.	E	F	G	H	J	K	L
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	1	4-5/8
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	1	7-1/8
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	1	7-5/8
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	1	9-7/8
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	1	9-7/8

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

Centrifugal Vent Set Blower Forward Curve 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 204-96, Balance Quality and Vibration Levels for Fans.

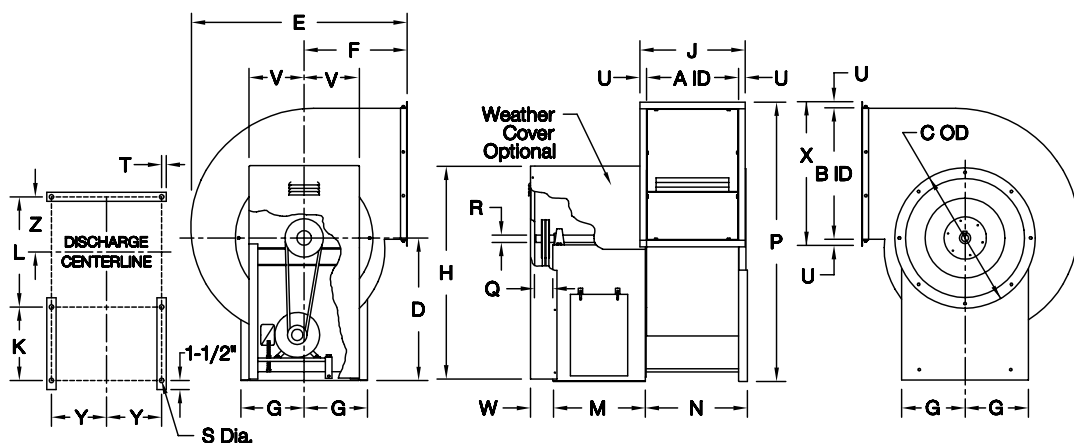
Motor - Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.

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

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



CPFB Dimension Data

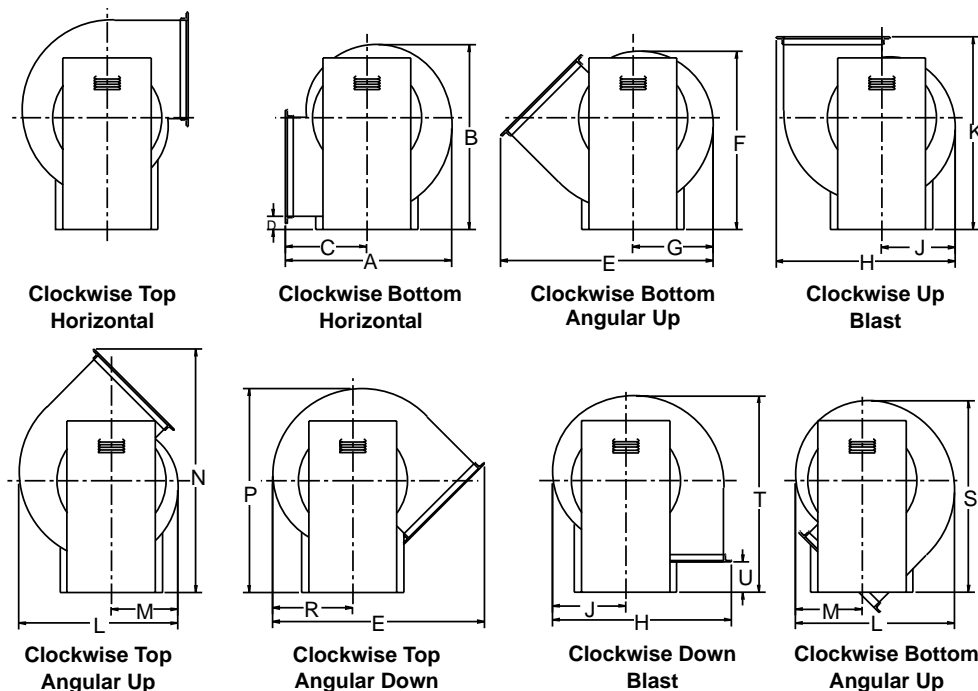
Size	A	B	C	D	E	F	G	H	J	K	L	M
100	7-9/16	10-15/16	14-1/2	18	22-1/4	12-3/4	9-3/8	25-1/4	10-3/4	10	10-1/4	13-1/8
120	9-3/16	13-1/8	16-3/4	18	24-13/16	13-3/8	9-3/8	26-1/4	12-5/16	10	11-7/8	13-1/8
150	11-7/16	16-7/16	19-1/2	19-1/16	29-9/16	15-5/16	9-3/8	29-1/16	14-9/16	12	14-1/8	15-1/8
180	13-3/4	19-11/16	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. * Based on open drip proof, single speed. For other discharge dimensions, please consult page 18, Compute-A-Fan, an authorized representative or the factory.

CONSTRUCTION INFORMATION

Rotation and Discharge Dimensions



Rotation and Discharge

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.

Wheels



CPV



CPS/CPA



CPS-A/CPA-A



CPFD/CPFB

Size	A	B	C	D	E	F	G	H	J
60-100	22-1/4	26-1/8	12-3/4	7-1/8	25-9/16	25-1/2	8-13/16	19	8-1/8
120	24-13/16	27-3/4	13-3/8	4-15/16	29-5/16	27	10-5/8	22-13/16	9-3/4
135	26-11/16	28-15/16	13-7/8	3-5/16	31-11/16	27-1/8	11-15/16	25-11/16	11
150	29-9/16	31-1/4	15-5/16	2-1/2	35-11/16	30-5/16	13-1/4	28-1/2	12-3/16
165	32-1/16	33-7/8	16-3/8	2-1/2	38-7/8	32-13/16	14-5/8	31-5/16	13-3/8
180	34-3/4	36-11/16	17-5/8	2-1/2	42-3/16	35-5/8	15-7/8	34-3/16	14-5/8
195	36-5/16	39-1/2	17-13/16	2-1/2	44-3/8	38-5/16	17-1/4	37	15-13/16
210	39-15/16	42-7/16	20	2-1/2	48-13/16	41-1/8	18-1/2	39-15/16	17-1/8
220/225	42	45-5/16	20-5/8	2-1/2	51-3/4	43-7/8	19-7/8	42-3/4	18-5/16
245/250	45-1/16	49-1/2	21-3/4	3	55-13/16	48	21-5/8	46-1/2	19-7/8
270	49-1/16	54-5/16	23-3/8	3	61-3/16	52-5/8	23-7/8	51-5/16	22-1/16
300	54-3/8	60	25-7/8	3	68-7/8	58-1/8	26-1/2	57	24-3/8
330	59-13/16	65-11/16	28-7/16	3	74-5/8	63-5/8	29-1/8	62-3/4	26-7/8
365	66-1/8	72-7/16	31-7/16	3	82-5/8	70-1/8	32-1/4	69-5/16	29-5/8
402	72-15/16	79-1/2	34-11/16	3	91	77-1/16	35-1/2	76-5/8	32-13/16
445	80-9/16	87-1/2	38-5/16	3	100-5/8	84-3/4	39-5/16	84-5/8	36-1/8
490	88-3/4	96-1/16	42-3/16	3	110-3/4	93	43-5/16	93-1/16	39-3/4

Size	K	L	M	N	P	R	S	T	U
60-100	30-3/4	17-11/16	7-1/2	36-3/4	28-1/4	8-13/16	26-13/16	27-1/2	2-3/4
120	31-3/8	21-5/16	9	36-11/16	30-5/16	10-5/8	28-5/8	29-7/16	4-5/8
135	31-7/8	22-15/16	9-1/8	37-3/4	31-3/4	11-15/16	29-15/16	30-7/8	5-7/8
150	34-3/8	26-5/8	11-1/4	41-7/16	34-3/8	13-1/4	32-5/16	33-5/16	6-11/16
165	36-13/16	29-3/16	12-3/8	44-11/16	37-1/4	14-5/8	32-1/16	36-1/8	8-5/8
180	39-11/16	31-15/16	13-9/16	48-3/8	40-7/16	15-7/8	37-15/16	39-3/16	7-7/8
195	41-9/16	34-1/2	14-5/8	50-13/16	43-1/2	17-1/4	40-15/16	42-3/16	9-13/16
210	45-3/8	37-3/16	15-3/4	55-11/16	46-13/16	18-1/2	43-7/8	45-5/16	11
220/225	47-5/8	39-7/8	16-7/8	58-7/8	49-15/16	19-7/8	46-7/8	48-3/8	12-3/8
245/250	51-3/8	43-3/8	18-3/8	63-13/16	53-5/8	21-5/8	51-1/4	52-15/16	13-1/4
270	55-3/4	47-7/8	20-1/4	69-11/16	60	23-7/8	56-1/4	58-1/16	13-5/8
300	61-1/2	53-1/8	22-1/2	78	66-1/4	26-1/2	62-1/8	64-1/8	16-1/8
330	67-5/16	58-1/2	24-3/4	84-3/8	72-5/8	29-1/8	68	70-1/4	18-5/8
365	74-3/16	64-9/16	27-3/8	93-1/16	80	32-1/4	75	77-7/16	20-5/8
402	81-7/16	71-3/8	30-5/16	102-1/4	87-13/16	35-1/2	82-1/4	82	22-5/16
445	89-11/16	78-3/8	33-5/8	112-3/4	96-3/4	39-5/16	90-11/16	93-5/8	24-11/16
490	98-7/16	86-3/4	36-3/4	123-11/16	106-1/4	43-5/16	99-9/16	102-13/16	29-13/16

Wheel Weights and WK²

CPS Steel Flatblade SWSI					
Unit Size	Wheel Wt.	WK ²	Unit Size	Wheel Wt.	WK ²
60	13	1	210	60	21
70	13	1	225	65	27
80	13	1	245	74	37
100	13	1	270	96	62
120	17	2	300	143	98
135	20	3	330	168	148
150	23	4	365	193	217
165	29	7	402	266	390
180	48	11	445	396	613
195	51	14	490	451	882

CPA Aluminum Flatblade SWSI					
Unit Size	Wheel Wt.	WK ²	Unit Size	Wheel Wt.	WK ²
60	5	0.3	210	18	6
70	5	0.3	225	21	8
80	5	0.3	245	24	12
100	5	0.3	270	28	18
120	6	1	300	47	31
135	7	1	330	53	44
150	8	1	365	63	69
165	9	2	402	82	120
180	15	3	445	128	192
195	17	5	490	143	273

CPS-A Steel Airfoil SWSI					
Unit Size	Wheel Wt.	WK ²	Unit Size	Wheel Wt.	WK ²
60	18	2	210	58	20
70	18	2	225	67	28
80	18	2	245	76	39
100	18	2	270	99	64
120	18	2	300	146	102
135	20	3	330	172	153
150	24	5	365	197	225
165	30	7	402	253	362
180	48	12	445	380	570
195	53	15	490	430	817

CPA-A Aluminum Airfoil SWSI					
Unit Size	Wheel Wt.	WK ²	Unit Size	Wheel Wt.	WK ²
60	7	1	210	21	7
70	7	1	225	26	11
80	7	1	245	30	17
100	7	1	270	35	24
120	7	1	300	53	38
135	8	1	330	60	55
150	9	2	365	72	84
165	11	3	402	83	122
180	17	4	445	129	195
195	19	6	490	145	278

CPV Aluminum Flatblade SWSI					
Unit Size	Wheel Wt.	WK ²	Unit Size	Wheel Wt.	WK ²
60	4.0	0.5	210	11.7	3.8
70	4.0	0.5	225	15.0	6.8
80	4.0	0.5	245	17.4	9.0
100	4.0	0.5	270	21.5	12.8
120	4.9	0.7	300	31.5	33.9
135	5.8	0.9	330	38.2	40.5
150	6.7	1.2	365	44.3	50.7
165	7.6	1.6	402	56.2	65.8
180	8.7	2.1	445	66.2	88.2
195	9.8	2.7	490	77.9	120.1

CPFB Steel Forward Curved SWSI		
Unit Size	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.

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

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.

CONSTRUCTION INFORMATION

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			
60	14 ga.	12 ga.	.100	.100	1"	3/4"	3/4"
70							
80							
100							
120							
135					1"	1"	
150							
165							
180					1-3/16"		1"
195					1-7/16"		
210					1-11/16"		
225					1-15/16"	1-3/16"	
245					2-3/16"	-	
270	2-7/16"						
300							
330							
365							
402							
445							
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

Standard Coatings

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

Optional Coatings

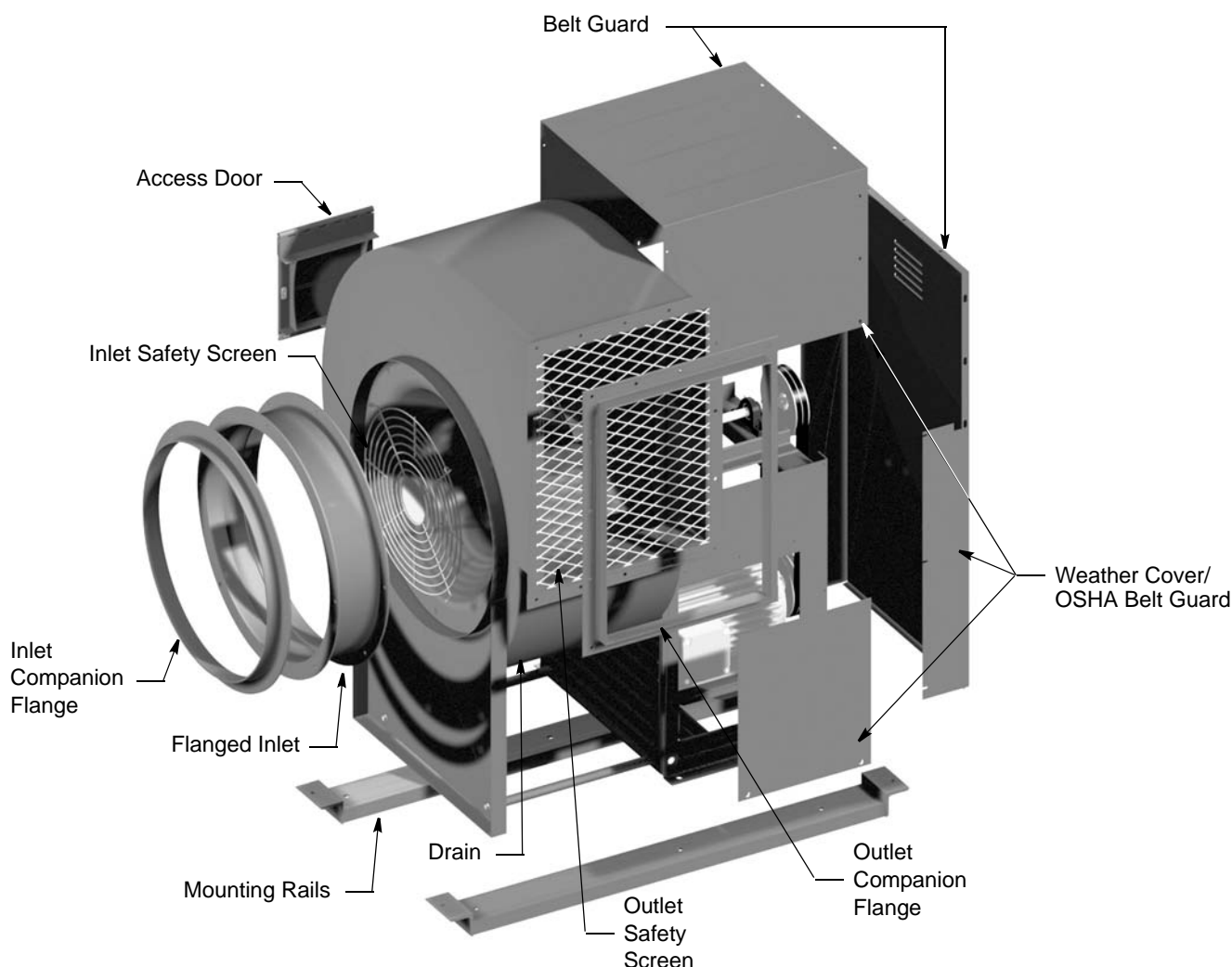
Cook Epoxy Powder is an electrostatically applied, baked epoxy powder coating. Final coating thickness is 2.5 – 3.5 mils. For outdoor applications an optional UV resistant topcoat is required to prevent deterioration of the coating.

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.

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



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.

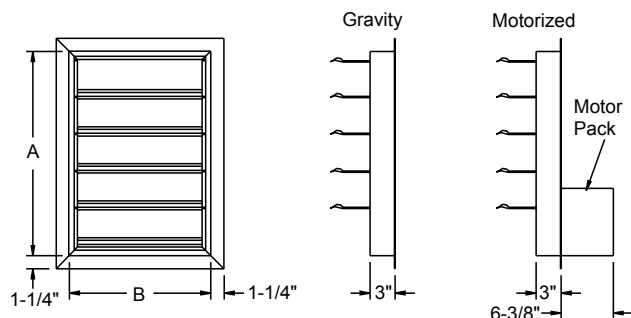
Additional Accessories

- Shaft Seal
- Rub Ring
- Motor Heat Shield
- High Temperature Grease
- 304 Stainless Steel (CPS/CPS-A)
- UL 762 & UL Power Ventilator for Smoke Control - see page 84

Shutters*

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.



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

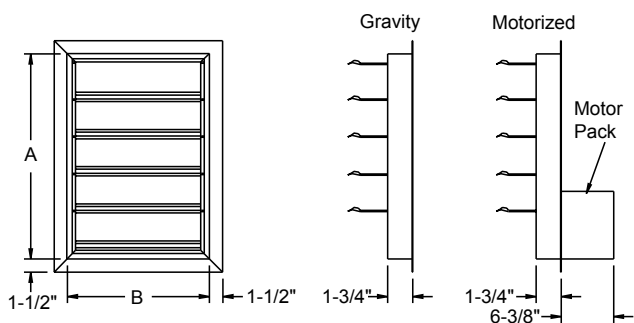
CP Galvanized Shutter Dimension Data

Unit Size	Shutter Model No.		A	B
	Gravity	Motorized		
60-100	ASDG-100	MDSG-100	10-15/16	7-9/16
120	ADSG-120	MDSG-120	13-1/8	9-3/16
135	ADSG-135	MDSG-135	14-3/4	10-5/16
150	ADSG-150	MDSG-150	16-7/16	11-7/16
165	ADSG-165	MDSG-165	18-1/16	12-5/8
180	ADSG-180	MDSG-180	19-11/16	13-3/4
195	ADSG-195	MDSG-195	21-5/16	14-15/16
210	ADSG-210	MDSG-210	23	16-1/16
225	ADSG-225	MDSG-225	24-5/8	17-3/16
245	ADSG-245	MDSG-245	26-13/16	18-3/4
270	ADSG-270	MDSG-270	29-9/16	20-5/8
300	ADSG-300	MDSG-300	32-13/16	22-15/16
330	ADSG-330	MDSG-330	36-1/8	25-1/4
365	ADSG-365	MDSG-365	39-15/16	27-7/8
402	ADSG-402	MDSG-402	44-1/16	30-3/4
445	ADSG-445	MDSG-445	48-11/16	34
490	ADSG-490	MDSG-490	53-5/8	37-7/16

All dimensions in inches.

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.



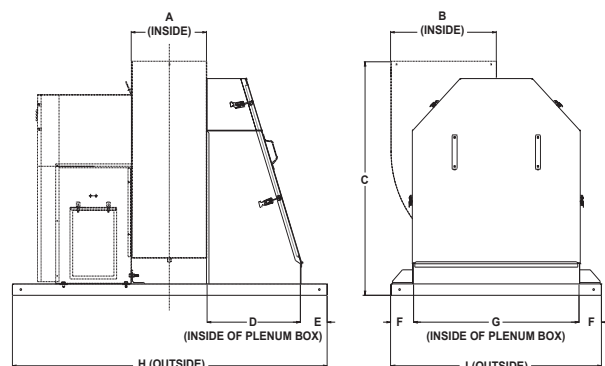
CP Aluminum Shutter Dimension Data

Unit Size	Shutter Model No.				A	B
	Gravity		Motorized			
	Std. Duty	Hvy. Duty	Std. Duty	Hvy Duty		
60-100	ADSS-100	ADSH-100	MDSS-100	MDSH-100	10-15/16	7-9/16
120	ADSS-120	ADSH-120	MDSS-120	MDSH-120	13-1/8	9-3/16
135	ADSS-135	ADSH-135	MDSS-135	MDSH-135	14-3/4	10-5/16
150	ADSS-150	ADSH-150	MDSS-150	MDSH-150	16-7/16	11-7/16
165	ADSS-165	ADSH-165	MDSS-165	MDSH-165	18-1/16	12-5/8
180	ADSS-180	ADSH-180	MDSS-180	MDSH-180	19-11/16	13-3/4
195	ADSS-195	ADSH-195	MDSS-195	MDSH-195	21-5/16	14-15/16
210	ADSS-210	ADSH-210	MDSS-210	MDSH-210	23	16-1/16
225	ADSS-225	ADSH-225	MDSS-225	MDSH-225	24-5/8	17-3/16
245	ADSS-245	ADSH-245	MDSS-245	MDSH-245	26-13/16	18-3/4
270	ADSS-270	ADSH-270	MDSS-270	MDSH-270	29-9/16	20-5/8
300	ADSS-300	ADSH-300	MDSS-300	MDSH-300	32-13/16	22-15/16
330	ADSS-330	ADSH-330	MDSS-330	MDSH-330	36-1/8	25-1/4
365	ADSS-365	ADSH-365	MDSS-365	MDSH-365	39-15/16	27-7/8
402	ADSS-402	ADSH-402	MDSS-402	MDSH-402	44-1/16	30-3/4
445	ADSS-445	ADSH-445	MDSS-445	MDSH-445	48-11/16	34
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.



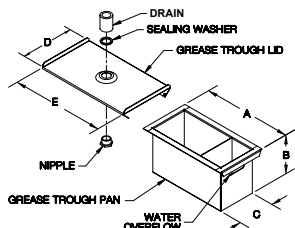
Dimension Data

Size	A	B	C	D	E	F	G	H	J
60-100	7-9/16	10-15/16	32-3/4	12-3/4	4-5/8	4-5/8	22-5/8	47-1/2	31-1/2
120	9-3/16	13-1/8	33-3/8	12-3/4	4-5/8	4-5/8	22-5/8	48-1/2	31-1/2
135	10-5/16	14-3/4	33-7/8	14	4-5/8	4-5/8	25	53-1/2	33-1/2
150	11-7/16	16-7/16	36-3/8	15-3/8	4-5/8	4-9/16	27-3/8	55-1/2	36-1/2
165	12-5/8	18-1/16	38-13/16	16-5/8	4-5/8	4-5/8	29-5/8	58-1/2	38-1/2
180	13-3/4	19-11/16	41-11/16	18	4-5/8	4-5/8	32	60-1/2	40-1/2
195	14-15/16	21-5/16	43-1/2	19-3/8	4-5/8	4-7/8	34-3/8	66-1/2	43-1/2
210	16-1/16	23	47-3/8	21	4-5/8	4-15/16	37-5/8	69-1/2	47-1/2
225	17-3/16	24-5/8	49-5/8	22-1/2	4-5/8	4-11/16	40-1/8	72-1/2	49-1/2
245	18-3/4	26-13/16	53-3/8	24	4-5/8	4-7/8	42-1/2	75-1/2	51-1/2

All dimensions in inches.

Grease Trough

A grease trough provides for collection of grease from the CP unit. The grease trough is constructed of .064 aluminum and includes a pan, lid and mounting hardware. The pan is continuously welded and slides out for easy removal and cleaning and features a baffled design for extended capacity.



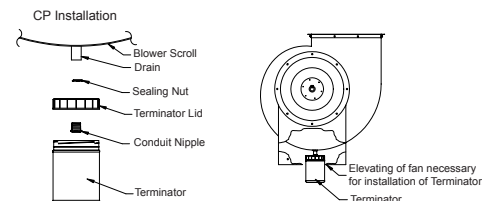
Dimension Data

A	B	C	D	E
13-13/16	4-15/16	4-13/16	7-3/16	14-7/16

Grease Terminator 2



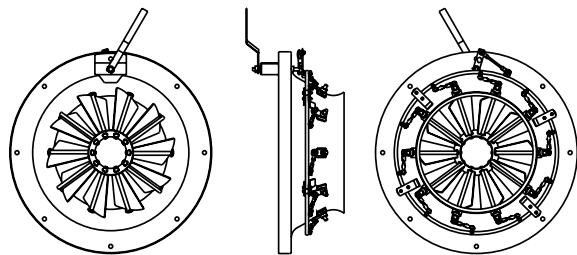
The Grease Terminator 2 is a grease-capture and containment system.



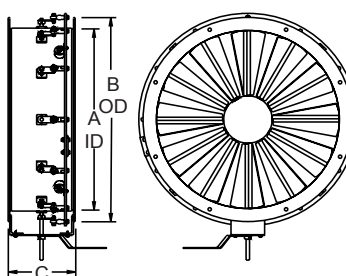
Inlet Vane Damper

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

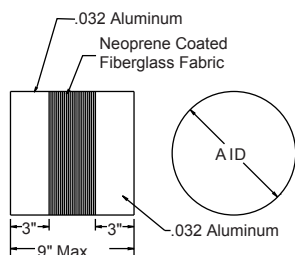
Size	A	B	C
120	12-7/8	15-7/8	10
135	14-3/8	17-3/8	10
150	15-7/8	18-7/8	10
165	17-3/8	20-3/8	10
180	18-7/8	21-7/8	10
195	20	23	10
210	21-3/4	24-3/4	10
225	23-1/4	26-1/4	10
245	25-1/4	28-1/4	10
270	27-1/4	31-1/4	10
300	30-1/4	34-1/4	10
330	33-1/4	37-1/4	10
365	36-3/4	40-3/4	10
402	40-1/2	44-1/2	11
445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

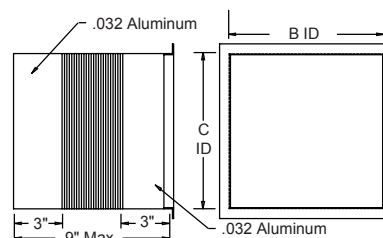
Inlet



Size	A
60-100	14-1/4
120	16-1/4
135	17-3/4
150	19-1/4
165	21-1/4
180	22-3/4
195	24-1/4
210	26
225	27-1/2
245	29-1/2
270	32
300	35
330	38
365	41-1/2
402	45-1/4
445	49-1/2
490	55

All dimensions in inches.

Outlet

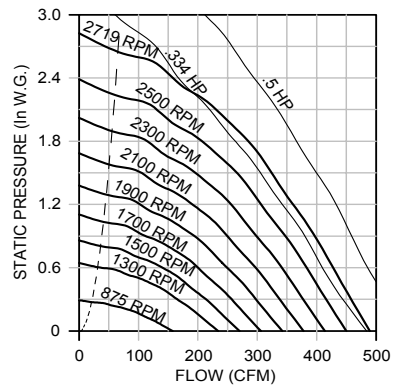
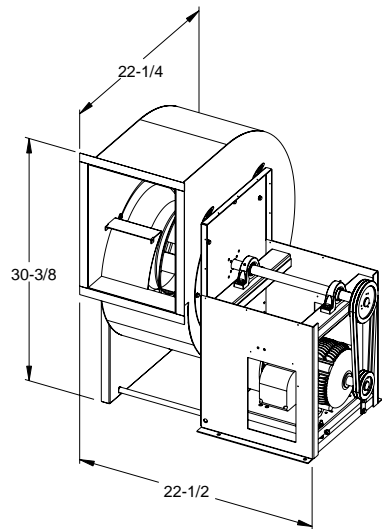


Size	B	C
60-100	8	11-5/16
120	9-5/8	13-9/16
135	10-3/4	15-3/16
150	11-7/8	16-7/8
165	13-1/16	18-1/2
180	14-3/16	20-1/8
195	15-7/16	21-3/4
210	16-9/16	23-7/16
225	17-11/16	25-1/16
245	19-1/4	27-1/4
270	21-1/8	30
300	23-7/16	33-1/4
330	25-11/16	36-9/16
365	28-5/16	40-7/16
402	31-3/16	44-9/16
445	34-7/16	49-3/16
490	37-7/8	54-1/8

All dimensions in inches.

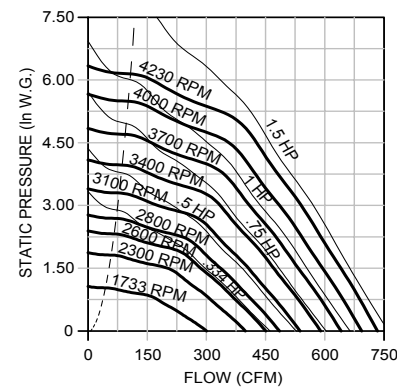
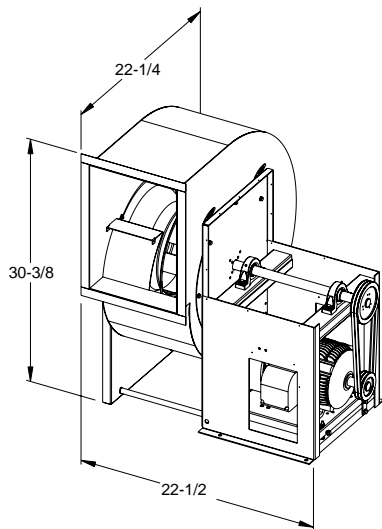
60 CPV

Wheel Diameter - 10"
Wheel Type - Flatblade
Tip Speed (FPM) = 2.62 x RPM
Max. BHP = .021 x (RPM/1000)³
Inlet Area - .61 Sq. Ft.
Outlet Area - .57 Sq. Ft.
Outlet Velocity (FPM) = CFM/.57
Max. Motor Frame - 145T, Arr. 10
Approx. Ship Wt. - 164 lbs.



60 CPS / CPA

Wheel Diameter - 10"
Wheel Type - Flatblade
Tip Speed (FPM) = 2.62 x RPM
Max. BHP = .018 x (RPM/1000)³
Inlet Area - .61 Sq. Ft.
Outlet Area - .57 Sq. Ft.
Outlet Velocity (FPM) = CFM/.57
Max. Mtr. Frame Size - 145T, Arr. 10
Approx. Shipping Weight
60 CPS - 173 lbs.
60 CPA - 118 lbs.



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).

60 CPV

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
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														

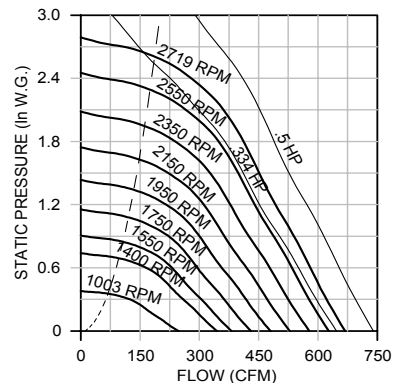
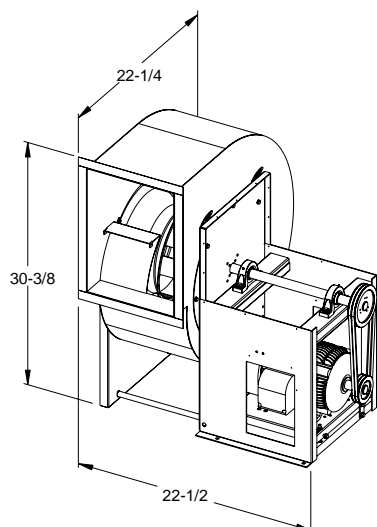
60 CPS/CPA

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
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	3881	.86
190	330	1950	.13	2111	.17	2276	.20	2437	.24	2588	.29	2867	.37	3117	.47	3344	.58	3554	.69	3751	.81	3936	.93
220	383	2069	.16	2208	.19	2346	.23	2487	.27	2629	.31	2903	.41	3155	.51	3386	.61	3600	.73	3799	.85	3986	.98
250	435	2190	.19	2330	.23	2455	.27	2574	.30	2696	.35	2946	.44	3192	.55	3423	.66	3638	.77	3840	.90	4030	1.02
280	487	2308	.22	2450	.27	2577	.31	2692	.35	2800	.39	3016	.49	3239	.59	3461	.71	3674	.83	3877	.95	4068	1.08
310	539	2433	.26	2568	.31	2697	.36	2815	.40	2922	.45	3119	.54	3314	.65	3514	.76	3716	.88	3914	1.02	4104	1.15
340	591	2567	.31	2692	.35	2815	.40	2933	.46	3043	.51	3239	.61	3418	.72	3595	.83	3777	.95	3961	1.08	4145	1.22
370	644	2708	.36	2824	.41	2939	.46	3051	.51	3161	.57	3362	.69	3538	.80	3703	.91	3865	1.03	4030	1.16	4199	1.30
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).

70 CPV

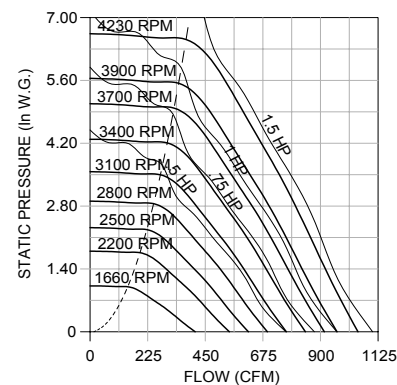
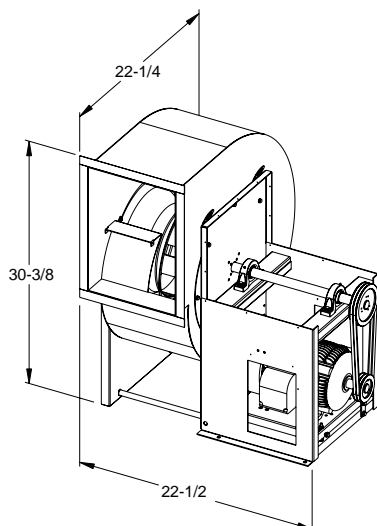
Wheel Diameter - 10"
Wheel Type - Flatblade
Tip Speed (FPM) = $2.62 \times \text{RPM}$
Max. BHP = $.022 \times (\text{RPM}/1000)^3$
Inlet Area - .61 Sq. Ft.
Outlet Area - .57 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/.57$
Max. Motor Frame Size - 145T, Arr. 10
Approx. Shipping Weight - 164 lbs.



Do not select to left of dotted curve.

70 CPS / CPA

Wheel Diameter - 10"
Wheel Type - Flatblade
Tip Speed (FPM) = $2.62 \times \text{RPM}$
Max. BHP = $.019 \times (\text{RPM}/1000)^3$
Inlet Area - 1.12 Sq. Ft.
Outlet Area - .57 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/.57$
Max. Mtr. Frame Size - 145T, Arr. 10
Approx. Shipping Weight
 70 CPS - 173 lbs.
 70 CPA - 118 lbs.



Do not select to left of dotted curve.

70 CPV

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
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														

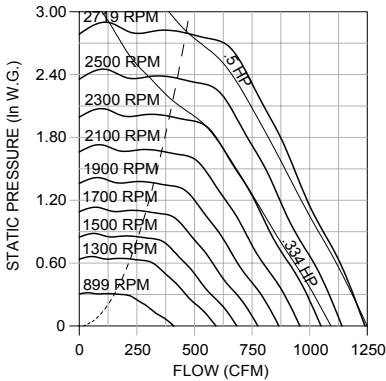
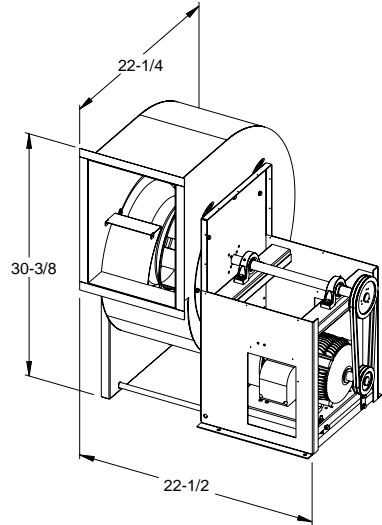
70 CPS/CPA

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
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	3723	.83
400	696	2276	.21	2406	.26	2528	.30	2643	.34	2750	.38	2949	.47	3132	.57	3305	.68	3470	.79	3632	.89	3789	.97
450	783	2432	.26	2553	.30	2670	.35	2781	.39	2887	.44	3082	.54	3262	.64	3429	.75	3587	.86	3739	.99	3885	1.11
500	870	2596	.31	2709	.36	2818	.40	2924	.46	3027	.51	3219	.61	3396	.72	3560	.82	3714	.94	3862	1.07	4003	1.20
550	957	2766	.38	2872	.42	2975	.47	3074	.52	3172	.58	3358	.69	3533	.81	3695	.92	3847	1.04	3992	1.16	4130	1.30
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 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).

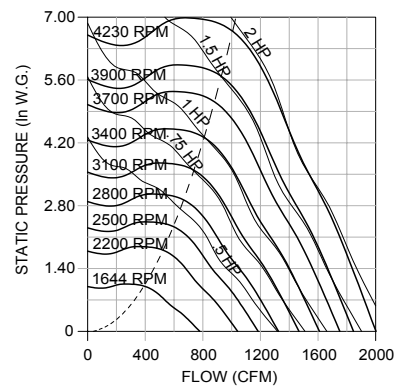
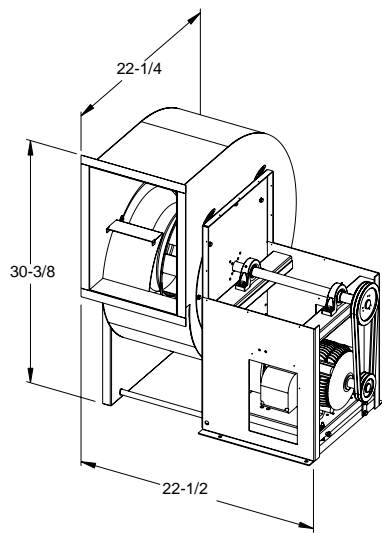
80 CPV

Wheel Diameter - 10"
Wheel Type - Flatblade
Tip Speed (FPM) = 2.62 x RPM
Max. BHP = .031 x (RPM/1000)³
Inlet Area - .61 Sq. Ft.
Outlet Area - .57 Sq. Ft.
Outlet Velocity (FPM) = CFM/.57
Max. Motor Frame - 145T, Arr. 10
Approx. Ship Wt. - 164 lbs.



80 CPS / CPA

Wheel Diameter - 10"
Wheel Type - Flatblade
Tip Speed (FPM) = 2.62 x RPM
Max. BHP = .027 x (RPM/1000)³
Inlet Area - .61 Sq. Ft.
Outlet Area - .57 Sq. Ft.
Outlet Velocity (FPM) = CFM/.57
Max. Mtr. Frame Size - 145T, Arr. 10
Approx. Shipping Weight
80 CPS - 173 lbs.
80 CPA - 118 lbs.



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).

80 CPV

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														

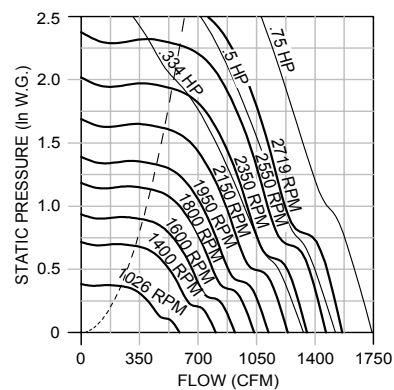
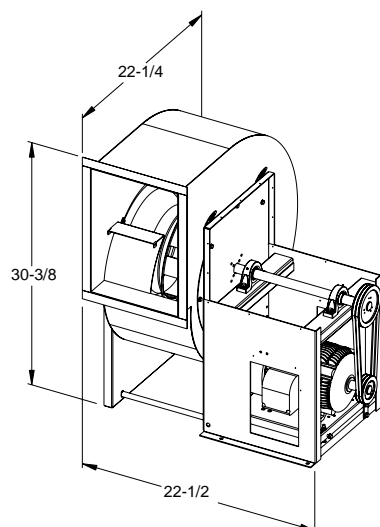
80 CPS / CPA

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).

100 CPV

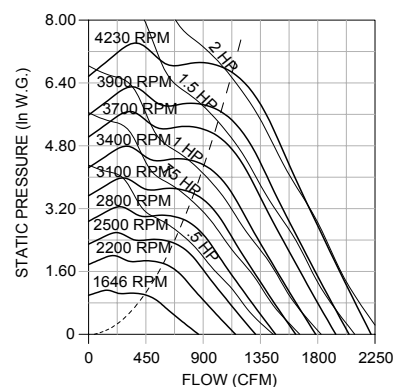
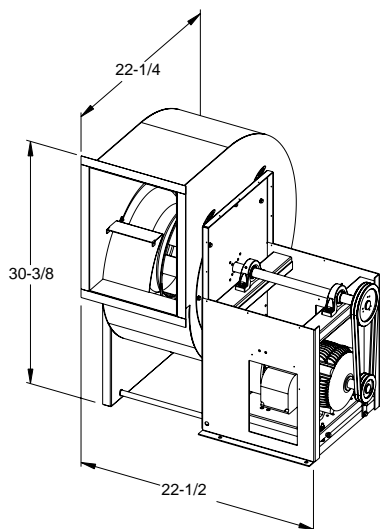
Wheel Diameter - 10"
Wheel Type - Flatblade
Tip Speed (FPM) = $2.62 \times \text{RPM}$
Max. BHP = $.028 \times (\text{RPM}/1000)^3$
Inlet Area - .61 Sq. Ft.
Outlet Area - .57 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/.57$
Max. Motor Frame Size - 145T, Arr. 10
Approx. Shipping Weight - 164 lbs.



Do not select to left of dotted curve.

100 CPS / CPA

Wheel Diameter - 10"
Wheel Type - Flatblade
Tip Speed (FPM) = $2.62 \times \text{RPM}$
Max. BHP = $.027 \times (\text{RPM}/1000)^3$
Inlet Area - .61 Sq. Ft.
Outlet Area - .57 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/.57$
Max. Mtr. Frame Size - 145T, Arr. 10
Approx. Shipping Weight
 100 CPS - 173 lbs.
 100 CPA - 118 lbs.



Do not select to left of dotted curve.

100 CPV

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
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												
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																

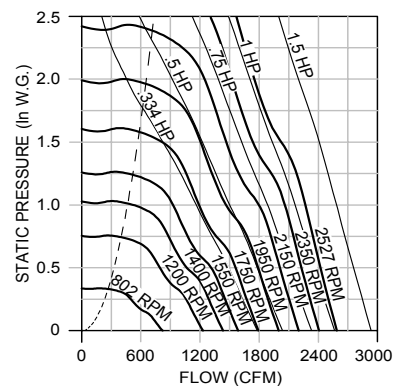
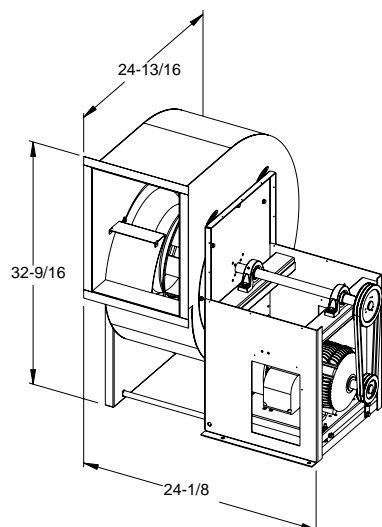
100 CPS / CPA

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
450	783	1646	.12																				
550	957	1739	.15	1877	.18	2015	.22																
650	1131	1872	.18	1987	.22	2103	.26	2220	.30	2338	.35												
750	1305	2023	.23	2128	.27	2227	.31	2327	.35	2428	.40	2631	.50										
850	1479	2177	.28	2280	.33	2373	.37	2462	.42	2550	.47	2726	.57	2906	.68	3085	.80						
950	1653	2333	.34	2434	.39	2526	.44	2612	.50	2693	.55	2851	.65	3008	.77	3168	.89	3329	1.02				
1050	1827	2492	.40	2589	.46	2680	.52	2766	.58	2845	.64	2993	.75	3135	.87	3277	.99	3422	1.12	3567	1.26	3712	1.41
1150	2002	2654	.49	2748	.54	2836	.60	2920	.67	2999	.73	3144	.86	3278	.99	3408	1.11	3538	1.25	3668	1.39	3801	1.54
1250	2176	2820	.58	2909	.64	2995	.70	3075	.77	3153	.84	3298	.98	3429	1.12	3553	1.26	3673	1.39	3791	1.53	3911	1.68
1350	2350	2987	.70	3073	.76	3156	.82	3234	.89	3310	.96	3452	1.11	3583	1.26	3704	1.41	3819	1.56	3930	1.71	4040	1.86
1450	2524	3157	.82	3239	.89	3319	.95	3395	1.02	3469	1.09	3608	1.25	3737	1.41	3857	1.58	3970	1.74	4078	1.90	4182	2.05
1550	2698	3328	.96	3408	1.03	3485	1.10	3559	1.17	3630	1.25	3765	1.40	3891	1.57	4011	1.75	4123	1.93	4229	2.10		
1650	2872	3501	1.12	3579	1.20	3653	1.27	3724	1.35	3793	1.42	3924	1.58	4048	1.75	4166	1.94						
1750	3046	3677	1.29	3751	1.38	3822	1.46	3891	1.54	3958	1.62	4085	1.78	4206	1.95								
1850	3220	3851	1.48	3924	1.58	3993	1.66	4059	1.75	4124	1.83												
1950	3394	4030	1.69	4099	1.79	4166	1.89	4231	1.98														

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).

120 CPV

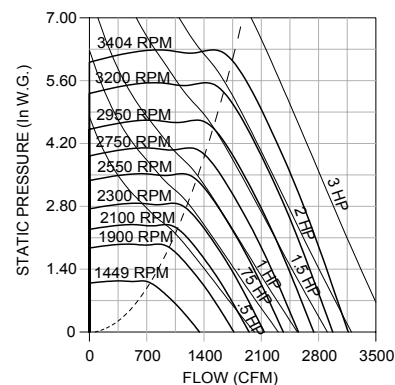
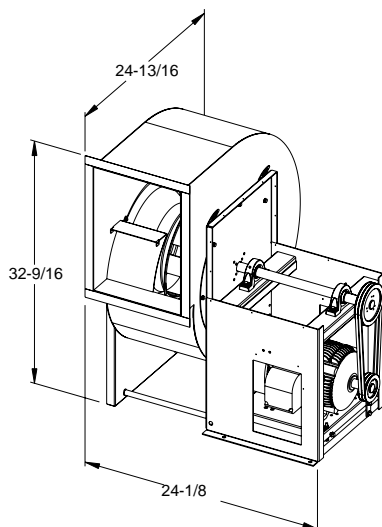
Wheel Diameter - 12"
Wheel Type - Flatblade
Tip Speed (FPM) = $3.21 \times \text{RPM}$
Max. BHP = $.068 \times (\text{RPM}/1000)^3$
Inlet Area - .92 Sq. Ft.
Outlet Area - .84 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/.84$
Max. Motor Frame - 184T, Arr. 10
Approx. Ship Wt. - 203 lbs.



Do not select to left of dotted curve.

120 CPS / CPA

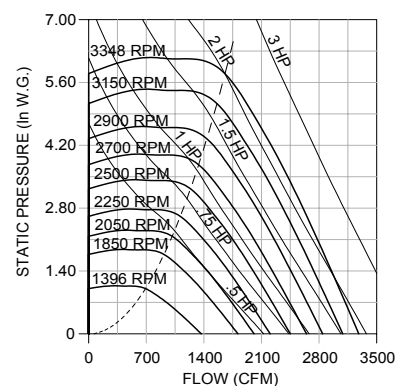
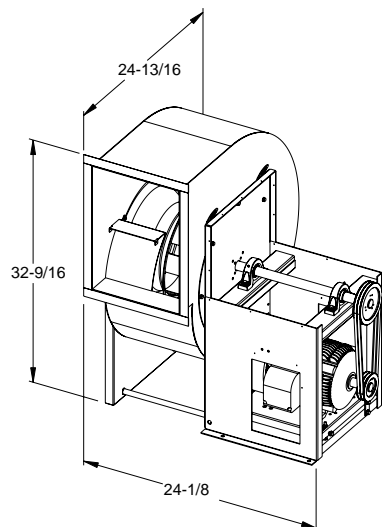
Wheel Diameter - 12"
Wheel Type - Flatblade
Tip Speed (FPM) = $3.21 \times \text{RPM}$
Max. BHP = $.056 \times (\text{RPM}/1000)^3$
Inlet Area - .92 Sq. Ft.
Outlet Area - .84 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/.84$
Max. Mtr. Frame Size - 184T, Arr. 10
Approx. Shipping Weight
 120 CPS - 221 lbs.
 120 CPA - 153 lbs.



Do not select to left of dotted curve.

120 CPS-A / CPA-A

Wheel Diameter - 12"
Wheel Type - Airfoil
Tip Speed (FPM) = $3.21 \times \text{RPM}$
Max. BHP = $.054 \times (\text{RPM}/1000)^3$
Inlet Area - .92 Sq. Ft.
Outlet Area - .84 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/.84$
Max. Mtr. Frame Size - 184T, Arr. 10
Approx. Shipping Weight
 120 CPS-A - 225 lbs.
 120 CPA-A - 163 lbs.



Do not select to left of dotted curve.

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).

120 CPV

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
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																

120 CPS / CPA

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
825	985	1449	.18	1563	.22																		
950	1134	1534	.22	1638	.26	1738	.31	1836	.36														
1075	1283	1627	.26	1724	.31	1817	.36	1906	.41	1994	.47												
1200	1433	1724	.31	1817	.36	1905	.41	1989	.47	2070	.53	2228	.65										
1325	1582	1826	.36	1915	.42	1999	.48	2079	.54	2156	.60	2304	.73	2447	.86								
1450	1731	1933	.43	2016	.49	2096	.55	2173	.61	2247	.68	2388	.81	2523	.96	2654	1.10	2783	1.26				
1575	1880	2044	.50	2122	.57	2198	.63	2271	.70	2342	.77	2478	.91	2607	1.06	2731	1.21	2851	1.37	2971	1.54		
1700	2030	2157	.58	2231	.65	2302	.72	2373	.80	2441	.87	2572	1.02	2696	1.17	2815	1.33	2930	1.50	3042	1.67	3153	1.85
1825	2179	2273	.67	2342	.75	2411	.82	2477	.90	2543	.98	2669	1.14	2789	1.30	2904	1.47	3015	1.64	3122	1.82	3227	2.00
1950	2328	2391	.78	2457	.86	2522	.94	2585	1.02	2647	1.10	2769	1.27	2885	1.44	2997	1.61	3104	1.79	3208	1.98	3308	2.16
2075	2477	2511	.89	2574	.98	2636	1.06	2696	1.15	2755	1.23	2871	1.41	2984	1.59	3092	1.77	3197	1.96	3297	2.15		
2200	2627	2632	1.02	2692	1.11	2752	1.20	2809	1.29	2866	1.38	2977	1.56	3085	1.75	3190	1.94	3292	2.14				
2325	2776	2755	1.15	2813	1.25	2869	1.35	2924	1.44	2978	1.54	3085	1.73	3189	1.93	3291	2.13						
2450	2925	2878	1.31	2933	1.41	2987	1.51	3040	1.61	3093	1.71	3195	1.91	3296	2.12								
2575	3074	3002	1.47	3056	1.58	3108	1.68	3159	1.79	3209	1.90	3307	2.11										
2700	3224	3128	1.65	3179	1.76	3229	1.88	3279	1.99	3327	2.10												
2825	3373	3253	1.85	3303	1.96	3352	2.08																
2950	3522	3381	2.06																				

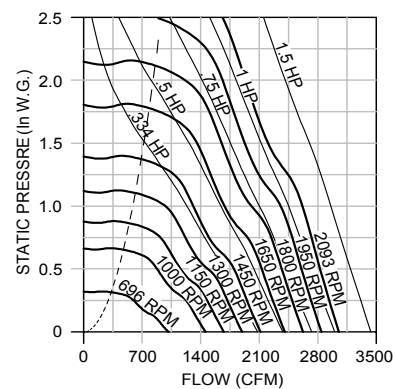
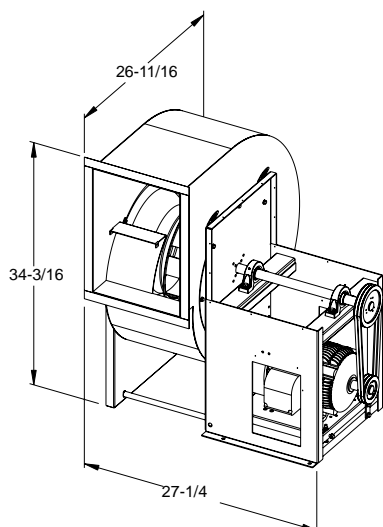
120 CPS-A / CPA-A

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
700	835	1396	.15																				
825	985	1464	.18	1581	.22																		
950	1134	1544	.21	1654	.25	1757	.30	1858	.35														
1075	1283	1628	.25	1734	.30	1833	.35	1927	.40	2017	.45												
1200	1433	1719	.29	1819	.35	1915	.40	2005	.46	2091	.51	2254	.63	2413	.75								
1325	1582	1814	.34	1910	.40	2000	.46	2088	.52	2171	.58	2327	.71	2475	.83	2619	.97						
1450	1731	1914	.40	2004	.46	2091	.53	2174	.59	2255	.66	2407	.79	2549	.93	2684	1.07	2816	1.21				
1575	1880	2017	.47	2103	.54	2185	.60	2265	.67	2342	.74	2489	.89	2628	1.03	2758	1.18	2884	1.33	3005	1.48	3126	1.64
1700	2030	2121	.54	2204	.61	2283	.69	2359	.76	2433	.83	2575	.98	2710	1.14	2838	1.30	2959	1.46	3075	1.62	3190	1.78
1825	2179	2229	.62	2308	.70	2384	.78	2457	.85	2528	.93	2664	1.09	2795	1.26	2920	1.43	3039	1.60	3152	1.77	3262	1.94
1950	2328	2338	.71	2414	.79	2487	.88	2557	.96	2626	1.04	2758	1.21	2883	1.38	3004	1.56	3121	1.74	3232	1.92		
2075	2477	2449	.81	2522	.90	2592	.99	2660	1.07	2726	1.16	2853	1.34	2975	1.52	3092	1.71	3205	1.89	3315	2.09		
2200	2627	2561	.92	2632	1.01	2699	1.11	2765	1.20	2829	1.29	2951	1.48	3069	1.67	3183	1.86	3293	2.06				
2325	2776	2675	1.04	2743	1.14	2808	1.24	2872	1.34	2933	1.43	3052	1.63	3166	1.83	3276	2.03						
2450	2925	2790	1.17	2854	1.27	2918	1.38	2980	1.48	3039	1.58	3155	1.79	3265	2.00								
2575	3074	2905	1.31	2969	1.42	3030	1.53	3089	1.64	3147	1.75	3259	1.97										
2700	3224	3022	1.47	3083	1.58	3142	1.69	3199	1.81	3256	1.92												
2825	3373	3139	1.64	3198	1.75	3256	1.87	3312	1.99														
2950	3522	3258	1.82	3315	1.94																		

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).

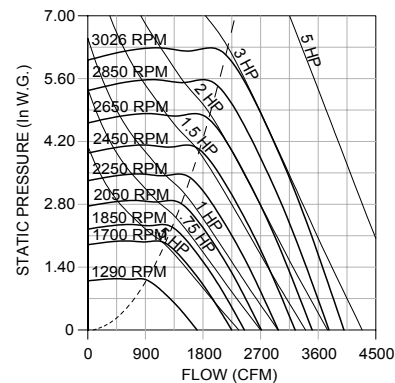
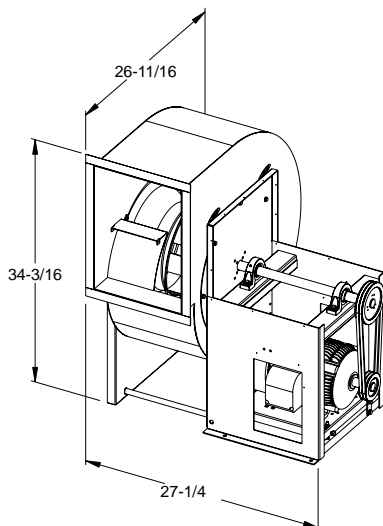
135 CPV

Wheel Diameter - 13.5"
Wheel Type - Flatblade
Tip Speed (FPM) = $3.53 \times \text{RPM}$
Max. BHP = $.12 \times (\text{RPM}/1000)^3$
Inlet Area - 1.12 Sq. Ft.
Outlet Area - 1.06 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/1.06$
Max. Motor Frame - 184T, Arr. 10
Approx. Ship Wt. - 235 lbs.



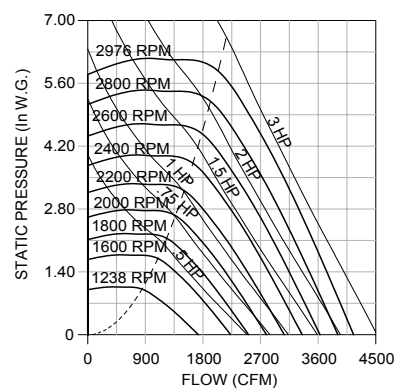
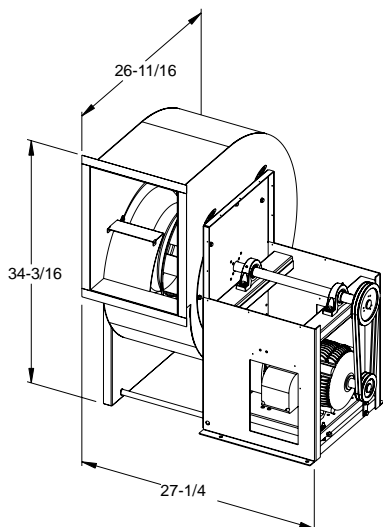
135 CPS / CPA

Wheel Diameter - 13.5"
Wheel Type - Flatblade
Tip Speed (FPM) = $3.53 \times \text{RPM}$
Max. BHP = $.12 \times (\text{RPM}/1000)^3$
Inlet Area - 1.12 Sq. Ft.
Outlet Area - 1.06 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/1.06$
Max. Mtr. Frame Size - 184T, Arr. 10
Approx. Shipping Weight
 135 CPS - 255 lbs.
 135 CPA - 180 lbs.



135 CPS-A / CPA-A

Wheel Diameter - 13.5"
Wheel Type - Airfoil
Tip Speed (FPM) = $3.53 \times \text{RPM}$
Max. BHP = $.10 \times (\text{RPM}/1000)^3$
Inlet Area - 1.12 Sq. Ft.
Outlet Area - 1.06 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/1.06$
Max. Mtr. Frame Size - 184T, Arr. 10
Approx. Shipping Weight
 135 CPS-A - 260 lbs.
 135 CPA-A - 191 lbs.



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).

135 CPV

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
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														

135 CPS / CPA

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
1050	994	1290	0.23	1392	0.29																		
1225	1159	1375	0.28	1466	0.34	1554	0.40	1640	0.46														
1400	1325	1467	0.34	1553	0.40	1634	0.47	1712	0.54	1788	0.61												
1575	1491	1565	0.41	1646	0.48	1722	0.55	1796	0.63	1867	0.70	2003	0.86	2138	1.03								
1750	1656	1667	0.49	1743	0.57	1816	0.65	1886	0.72	1953	0.80	2082	0.97	2205	1.14	2326	1.33						
1925	1822	1774	0.59	1845	0.67	1914	0.75	1981	0.84	2045	0.92	2168	1.10	2284	1.28	2397	1.47	2507	1.67	2617	1.88		
2100	1988	1885	0.70	1951	0.79	2016	0.88	2079	0.97	2141	1.06	2259	1.24	2370	1.44	2477	1.64	2581	1.84	2682	2.06	2783	2.28
2275	2153	1998	0.83	2061	0.92	2121	1.01	2182	1.11	2240	1.21	2354	1.41	2461	1.61	2564	1.82	2663	2.03	2759	2.26	2853	2.48
2450	2319	2114	0.97	2172	1.07	2231	1.17	2287	1.27	2343	1.37	2451	1.58	2555	1.80	2655	2.02	2750	2.25	2842	2.47	2932	2.71
2625	2485	2231	1.13	2287	1.23	2342	1.34	2396	1.45	2448	1.56	2552	1.78	2652	2.01	2748	2.24	2841	2.48	2930	2.72	3017	2.96
2800	2650	2351	1.30	2403	1.42	2456	1.53	2507	1.65	2557	1.76	2656	2.00	2752	2.24	2845	2.48	2934	2.73	3022	2.98		
2975	2816	2470	1.50	2522	1.62	2572	1.74	2621	1.87	2668	1.99	2763	2.24	2854	2.49	2944	2.74						
3150	2982	2593	1.72	2641	1.85	2689	1.98	2735	2.10	2781	2.23	2872	2.50	2959	2.76								
3325	3147	2715	1.95	2761	2.09	2807	2.23	2852	2.37	2896	2.50	2983	2.78										
3500	3313	2839	2.22	2884	2.36	2928	2.51	2971	2.65	3013	2.80												
3675	3479	2962	2.50	3005	2.65																		

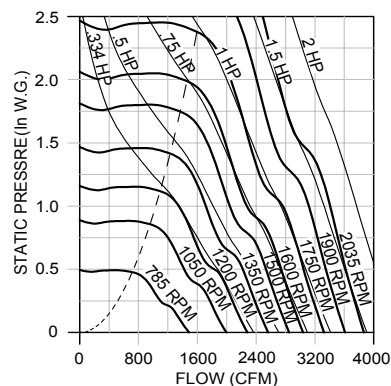
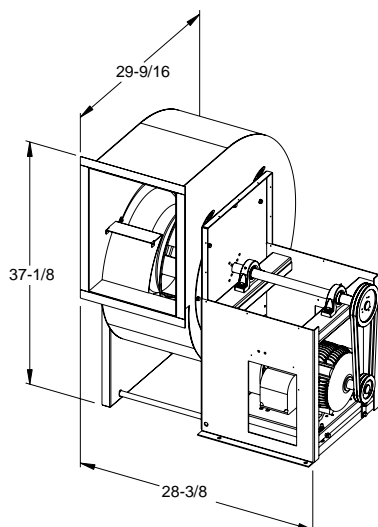
135 CPS-A / CPA-A

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
875	828	1238	.18																				
1050	994	1304	.22	1408	.27																		
1225	1159	1383	.27	1480	.33	1571	.39	1660	.45														
1400	1325	1467	.33	1560	.39	1647	.46	1729	.52	1809	.59	1962	.73										
1575	1491	1558	.39	1645	.46	1729	.54	1808	.61	1884	.68	2026	.83	2163	.99								
1750	1656	1653	.47	1736	.54	1815	.62	1891	.70	1964	.78	2101	.95	2229	1.11	2353	1.28	2475	1.46				
1925	1822	1753	.56	1831	.64	1906	.72	1978	.81	2048	.89	2181	1.07	2305	1.25	2423	1.43	2536	1.62	2647	1.81		
2100	1988	1855	.65	1930	.74	2001	.83	2069	.92	2136	1.01	2264	1.20	2385	1.40	2499	1.59	2608	1.79	2713	1.99	2815	2.20
2275	2153	1960	.76	2031	.86	2099	.96	2165	1.05	2228	1.15	2351	1.35	2468	1.56	2579	1.77	2685	1.98	2787	2.19	2884	2.41
2450	2319	2067	.89	2135	.99	2200	1.09	2263	1.20	2324	1.30	2442	1.52	2554	1.73	2662	1.96	2765	2.18	2865	2.41	2960	2.64
2625	2485	2176	1.02	2241	1.14	2304	1.25	2364	1.36	2423	1.47	2536	1.70	2644	1.92	2748	2.16	2848	2.40	2946	2.64		
2800	2650	2286	1.18	2349	1.30	2409	1.41	2467	1.53	2524	1.65	2632	1.89	2737	2.13	2837	2.38	2935	2.63				
2975	2816	2398	1.35	2458	1.47	2515	1.60	2572	1.73	2627	1.85	2732	2.11	2833	2.36	2929	2.62						
3150	2982	2512	1.53	2569	1.67	2624	1.80	2679	1.94	2731	2.07	2833	2.34	2931	2.61								
3325	3147	2626	1.74	2680	1.88	2734	2.02	2787	2.16	2838	2.30	2936	2.59										
3500	3313	2740	1.96	2794	2.11	2846	2.26	2896	2.41	2945	2.56												
3675	3479	2857	2.22	2908	2.37	2957	2.52																

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).

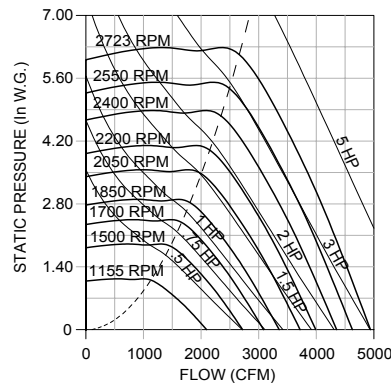
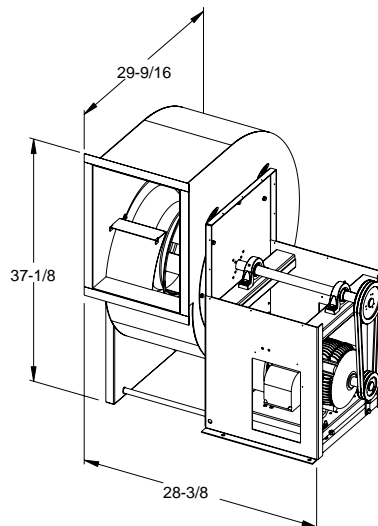
150 CPV

Wheel Diameter - 15"
Wheel Type - Flatblade
Tip Speed (FPM) = $3.93 \times \text{RPM}$
Max. BHP = $.19 \times (\text{RPM}/1000)^3$
Inlet Area - 1.39 Sq. Ft.
Outlet Area - 1.31 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/1.31$
Max. Motor Frame - 184T, Arr. 10
Approx. Ship Wt. - 268 lbs.



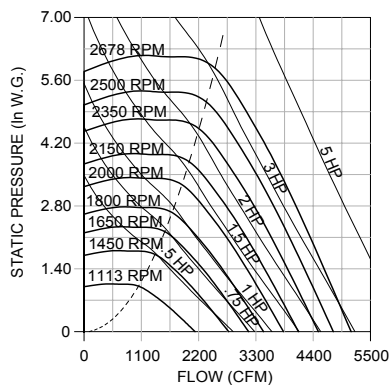
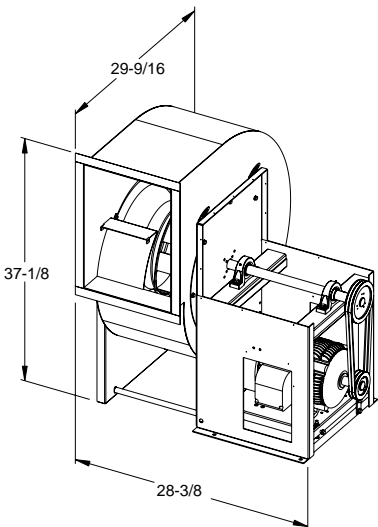
150 CPS / CPA

Wheel Diameter - 15"
Wheel Type - Flatblade
Tip Speed (FPM) = $3.93 \times \text{RPM}$
Max. BHP = $.21 \times (\text{RPM}/1000)^3$
Inlet Area - 1.39 Sq. Ft.
Outlet Area - 1.31 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/1.31$
Max. Mtr. Frame Size - 184T, Arr. 10
Approx. Ship Wt.
 150 CPS - 291 lbs.
 150 CPA - 208 lbs.



150 CPS-A / CPA-A

Wheel Diameter - 15"
Wheel Type - Airfoil
Tip Speed (FPM) = $3.93 \times \text{RPM}$
Max. BHP = $.19 \times (\text{RPM}/1000)^3$
Inlet Area - 1.39 Sq. Ft.
Outlet Area - 1.31 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/1.31$
Max. Mtr. Frame Size - 184T, Arr. 10
Approx. Ship Wt.
 150 CPS-A - 297 lbs.
 150 CPA-A - 222 lbs.



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).

150 CPV

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	1708	.27								
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																		

150 CPS / CPA

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
1275	976	1155	0.28	1247	0.35																		
1475	1129	1224	0.34	1307	0.41	1387	0.48	1467	0.56														
1675	1282	1300	0.40	1378	0.48	1452	0.56	1524	0.64	1594	0.73												
1875	1436	1379	0.48	1454	0.56	1524	0.65	1591	0.74	1656	0.83	1783	1.02										
2075	1589	1463	0.57	1534	0.66	1601	0.75	1665	0.84	1726	0.94	1845	1.14	1959	1.35	2072	1.58						
2275	1742	1551	0.67	1617	0.77	1681	0.87	1742	0.97	1801	1.07	1914	1.28	2021	1.50	2126	1.73	2229	1.97				
2475	1895	1642	0.79	1704	0.89	1764	1.00	1823	1.10	1880	1.21	1988	1.44	2091	1.67	2189	1.91	2286	2.16	2380	2.42		
2675	2048	1735	0.92	1793	1.03	1850	1.14	1906	1.26	1960	1.37	2065	1.61	2164	1.85	2259	2.10	2350	2.36	2440	2.63	2528	2.91
2875	2202	1830	1.07	1885	1.19	1939	1.31	1992	1.43	2044	1.55	2145	1.80	2240	2.05	2332	2.32	2420	2.59	2505	2.86	2589	3.15
3075	2355	1927	1.24	1979	1.36	2031	1.49	2081	1.62	2130	1.75	2227	2.01	2320	2.28	2408	2.55	2494	2.84	2576	3.12	2657	3.42
3275	2508	2025	1.42	2075	1.56	2124	1.69	2172	1.83	2219	1.96	2311	2.24	2400	2.52	2487	2.81	2570	3.10	2650	3.40		
3475	2661	2125	1.63	2172	1.77	2219	1.91	2265	2.06	2310	2.20	2398	2.49	2484	2.79	2567	3.09	2648	3.39				
3675	2814	2225	1.85	2271	2.01	2316	2.16	2359	2.31	2402	2.46	2487	2.76	2570	3.07	2650	3.39						
3875	2967	2327	2.10	2370	2.26	2413	2.42	2455	2.58	2496	2.74	2578	3.06	2657	3.38								
4075	3121	2428	2.37	2470	2.54	2512	2.71	2552	2.87	2592	3.04	2670	3.38										
4275	3274	2532	2.67	2572	2.85	2612	3.02	2651	3.20	2689	3.37												
4475	3427	2634	2.98	2673	3.17	2712	3.36																

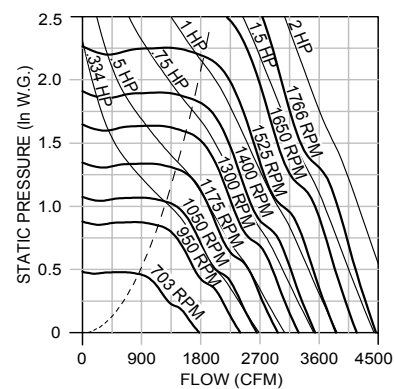
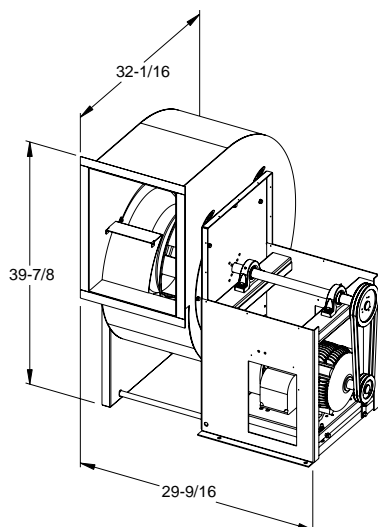
150 CPS-A / CPA-A

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
1075	823	1113	0.22																				
1275	976	1167	0.27	1262	0.33																		
1475	1129	1232	0.33	1320	0.39	1403	0.46	1484	0.54														
1675	1282	1301	0.39	1386	0.46	1465	0.54	1540	0.62	1613	0.70												
1875	1436	1375	0.46	1456	0.54	1532	0.63	1604	0.72	1673	0.80	1803	0.98	1930	1.17								
2075	1589	1453	0.54	1529	0.63	1602	0.72	1672	0.82	1739	0.92	1864	1.11	1981	1.31	2096	1.51						
2275	1742	1535	0.63	1607	0.73	1676	0.83	1743	0.93	1807	1.04	1929	1.25	2042	1.46	2150	1.68	2255	1.90				
2475	1895	1619	0.74	1688	0.84	1754	0.95	1817	1.06	1879	1.17	1996	1.39	2107	1.62	2211	1.86	2311	2.09	2408	2.33	2504	2.58
2675	2048	1705	0.86	1771	0.97	1834	1.08	1895	1.20	1954	1.32	2067	1.55	2175	1.80	2277	2.05	2373	2.30	2466	2.55	2557	2.81
2875	2202	1793	0.99	1856	1.11	1917	1.23	1975	1.35	2032	1.48	2140	1.73	2245	1.99	2344	2.25	2439	2.52	2529	2.79	2617	3.06
3075	2355	1883	1.13	1944	1.26	2002	1.39	2058	1.53	2112	1.66	2217	1.92	2317	2.19	2414	2.47	2506	2.75	2595	3.04		
3275	2508	1974	1.29	2032	1.43	2088	1.57	2142	1.71	2195	1.85	2295	2.13	2392	2.41	2486	2.71	2576	3.00	2663	3.31		
3475	2661	2066	1.47	2122	1.62	2176	1.76	2228	1.91	2279	2.06	2377	2.36	2470	2.66	2560	2.96	2648	3.27				
3675	2814	2159	1.66	2214	1.82	2265	1.98	2316	2.13	2365	2.29	2459	2.60	2550	2.92	2637	3.23						
3875	2967	2254	1.88	2306	2.04	2356	2.21	2405	2.37	2452	2.54	2544	2.87	2632	3.20								
4075	3121	2349	2.11	2399	2.28	2447	2.45	2495	2.63	2540	2.80	2629	3.15										
4275	3274	2445	2.37	2493	2.55	2540	2.73	2585	2.91	2630	3.09												
4475	3427	2541	2.64	2587	2.83	2633	3.02	2677	3.21														

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).

165 CPV

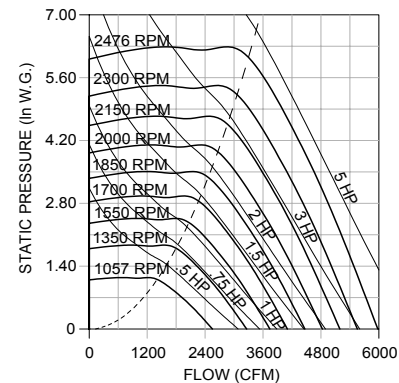
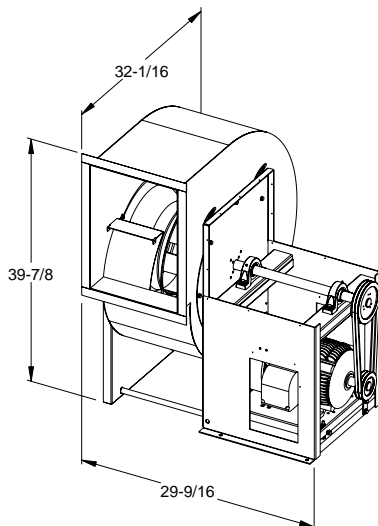
Wheel Diameter - 16.5"
Wheel Type - Flatblade
Tip Speed (FPM) = $4.32 \times \text{RPM}$
Max. BHP = $.31 \times (\text{RPM}/1000)^3$
Inlet Area - 1.67 Sq. Ft.
Outlet Area - 1.58 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/1.58$
Max. Motor Frame - 184T, Arr. 10
Approx. Ship Wt. - 303 lbs.



Do not select to left of dotted curve.

165 CPS / CPA

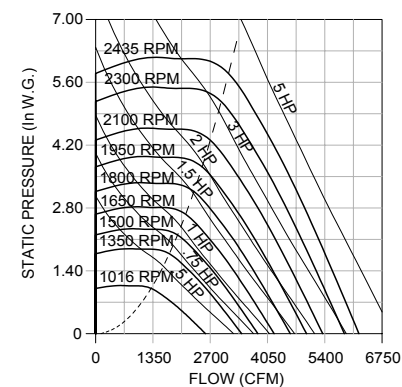
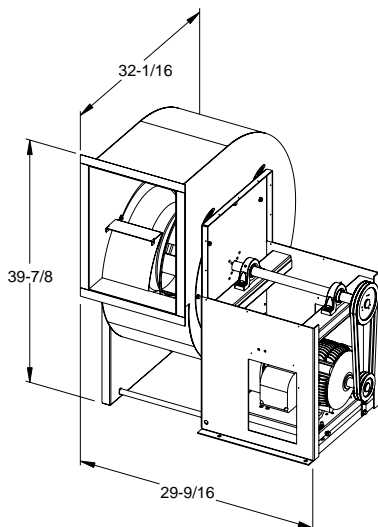
Wheel Diameter - 16.5"
Wheel Type - Flatblade
Tip Speed (FPM) = $4.32 \times \text{RPM}$
Max. BHP = $.33 \times (\text{RPM}/1000)^3$
Inlet Area - 1.67 Sq. Ft.
Outlet Area - 1.58 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/1.58$
Max. Mtr. Frame Size - 184T, Arr. 10
Approx. Ship Wt.
 165 CPS - 334 lbs.
 165 CPA - 237 lbs.



Do not select to left of dotted curve.

165 CPS-A / CPA-A

Wheel Diameter - 16.5"
Wheel Type - Airfoil
Tip Speed (FPM) = $4.32 \times \text{RPM}$
Max. BHP = $.30 \times (\text{RPM}/1000)^3$
Inlet Area - 1.67 Sq. Ft.
Outlet Area - 1.58 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/1.58$
Max. Mtr. Frame Size - 184T, Arr. 10
Approx. Ship Wt.
 165 CPS-A - 341 lbs.
 165 CPA-A - 253 lbs.



Do not select to left of dotted curve.

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).

165 CPV

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
1300	820	703	.10	812	.17	919	.24	1035	.33												
1450	915	747	.12	861	.19	954	.27	1052	.36	1156	.46	1268	.57								
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																

165 CPS/CPA

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
1575	994	1057	0.35	1140	0.43																		
1825	1152	1124	0.42	1198	0.50	1270	0.60	1341	0.69														
2075	1310	1196	0.50	1266	0.60	1332	0.69	1397	0.80	1459	0.90												
2325	1468	1272	0.60	1338	0.70	1401	0.81	1462	0.92	1520	1.03	1633	1.26										
2575	1626	1351	0.72	1414	0.83	1474	0.94	1532	1.06	1587	1.18	1693	1.42	1795	1.68	1895	1.95						
2825	1783	1434	0.85	1493	0.97	1550	1.09	1605	1.22	1658	1.34	1760	1.60	1856	1.87	1949	2.16	2041	2.45				
3075	1941	1520	1.01	1575	1.13	1629	1.26	1682	1.40	1733	1.53	1830	1.80	1922	2.09	2010	2.38	2097	2.69	2181	3.01	2265	3.34
3325	2099	1608	1.18	1660	1.31	1711	1.45	1761	1.59	1810	1.74	1903	2.03	1992	2.33	2077	2.64	2159	2.95	2239	3.28	2318	3.62
3575	2257	1698	1.37	1748	1.52	1795	1.67	1843	1.82	1889	1.97	1979	2.28	2065	2.59	2147	2.91	2226	3.25	2303	3.59	2378	3.94
3825	2415	1790	1.59	1837	1.75	1882	1.90	1927	2.06	1971	2.22	2057	2.55	2140	2.88	2220	3.22	2296	3.56	2370	3.92	2442	4.28
4075	2573	1882	1.83	1927	2.00	1971	2.17	2013	2.33	2055	2.50	2138	2.85	2217	3.19	2294	3.55	2369	3.91	2441	4.28		
4325	2731	1977	2.10	2019	2.28	2060	2.45	2101	2.63	2141	2.81	2220	3.17	2296	3.54	2371	3.91	2443	4.29				
4575	2888	2071	2.40	2112	2.59	2152	2.78	2191	2.96	2229	3.15	2304	3.53	2378	3.91	2450	4.30						
4825	3046	2167	2.72	2206	2.92	2244	3.12	2282	3.32	2319	3.52	2391	3.92	2461	4.31								
5075	3204	2263	3.08	2301	3.29	2337	3.50	2373	3.71	2409	3.92												
5325	3362	2360	3.47	2396	3.69	2432	3.91	2466	4.13														
5575	3520	2458	3.89																				

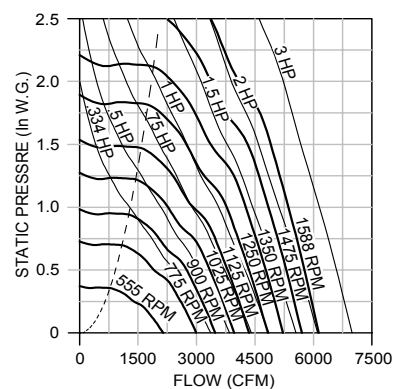
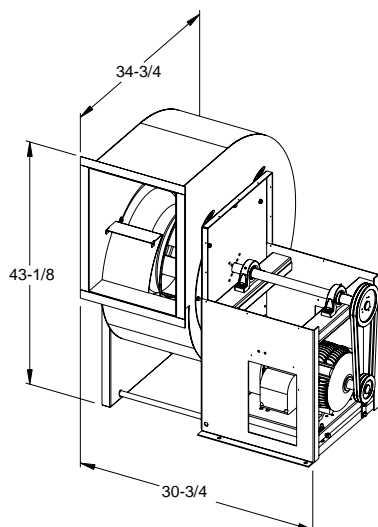
165 CPS-A/CPA-A

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
1325	836	1016	0.28																				
1575	994	1068	0.34	1153	0.41																		
1825	1152	1130	0.41	1210	0.49	1285	0.58	1357	0.67														
2075	1310	1196	0.49	1272	0.58	1344	0.68	1411	0.77	1476	0.87	1602	1.08										
2325	1468	1266	0.58	1339	0.68	1407	0.79	1472	0.89	1534	1.00	1652	1.23	1764	1.45								
2575	1626	1341	0.68	1409	0.79	1474	0.91	1537	1.03	1597	1.15	1710	1.39	1815	1.63	1918	1.88						
2825	1783	1418	0.80	1483	0.92	1544	1.05	1604	1.17	1662	1.30	1772	1.56	1874	1.83	1971	2.09	2064	2.36	2157	2.65		
3075	1941	1498	0.94	1559	1.07	1618	1.20	1675	1.33	1730	1.47	1836	1.75	1936	2.04	2029	2.32	2119	2.61	2206	2.91	2292	3.21
3325	2099	1580	1.09	1638	1.23	1695	1.38	1749	1.52	1802	1.66	1903	1.96	2000	2.26	2092	2.57	2179	2.88	2263	3.19	2344	3.51
3575	2257	1663	1.26	1719	1.41	1773	1.57	1825	1.72	1876	1.87	1973	2.18	2066	2.50	2156	2.83	2241	3.16	2323	3.49	2402	3.83
3825	2415	1747	1.45	1801	1.61	1853	1.78	1903	1.94	1952	2.10	2046	2.43	2136	2.77	2222	3.11	2305	3.46	2386	3.82		
4075	2573	1833	1.66	1885	1.83	1935	2.01	1983	2.18	2031	2.36	2121	2.70	2207	3.05	2291	3.41	2371	3.78				
4325	2731	1921	1.89	1970	2.07	2019	2.26	2065	2.44	2110	2.63	2198	3.00	2281	3.37	2362	3.74						
4575	2888	2009	2.15	2056	2.34	2103	2.54	2148	2.73	2191	2.92	2276	3.32	2357	3.71	2435	4.10						
4825	3046	2097	2.43	2144	2.63	2188	2.83	2232	3.04	2274	3.25	2356	3.66	2435	4.07								
5075	3204	2187	2.74	2232	2.95	2274	3.16	2317	3.38	2358	3.60												
5325	3362	2277	3.07	2320	3.29	2362	3.52	2403	3.74														
5575	3520	2369	3.44	2410	3.67																		

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).

180 CPV

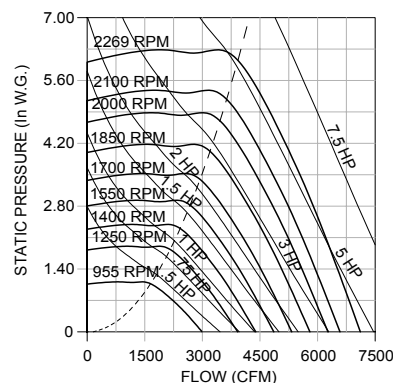
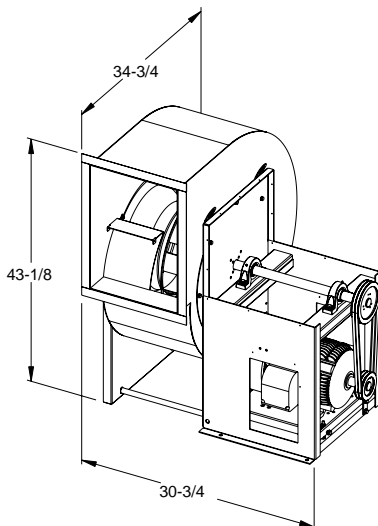
Wheel Diameter - 18"
Wheel Type - Flatblade
Tip Speed (FPM) = $4.71 \times \text{RPM}$
Max. BHP = $.56 \times (\text{RPM}/1000)^3$
Inlet Area - 2.03 Sq. Ft.
Outlet Area - 1.88 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/1.88$
Max. Motor Frame - 215T, Arr. 10
Approx. Ship Wt. - 340 lbs.



Do not select to left of dotted curve.

180 CPS / CPA

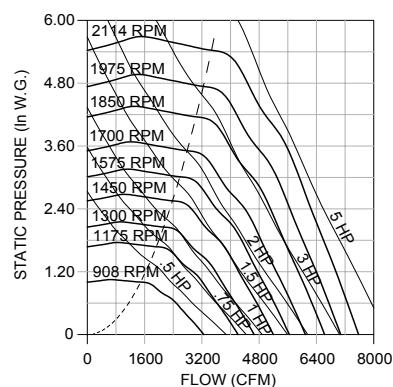
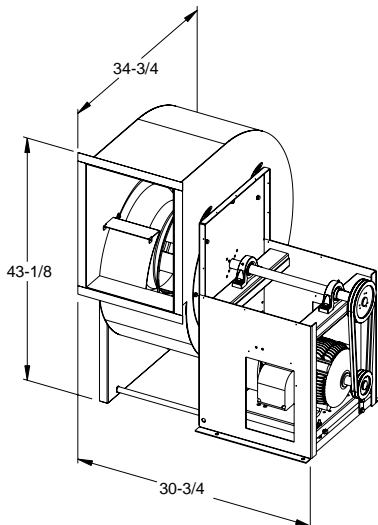
Wheel Diameter - 18"
Wheel Type - Flatblade
Tip Speed (FPM) = $4.71 \times \text{RPM}$
Max. BHP = $.43 \times (\text{RPM}/1000)^3$
Inlet Area - 2.03 Sq. Ft.
Outlet Area - 1.88 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/1.88$
Max. Mtr. Frame Size - 215T, Arr. 10
Approx. Ship Wt.
 180 CPS - 396 lbs.
 180 CPA - 266 lbs.



Do not select to left of dotted curve.

180 CPS-A / CPA-A

Wheel Diameter - 18"
Wheel Type - Airfoil
Tip Speed (FPM) = $4.71 \times \text{RPM}$
Max. BHP = $.52 \times (\text{RPM}/1000)^3$
Inlet Area - 2.03 Sq. Ft.
Outlet Area - 1.88 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/1.88$
Max. Mtr. Frame Size - 215T, Arr. 10
Approx. Ship Wt.
 180 CPS-A - 404 lbs.
 180 CPA-A - 286 lbs.



Do not select to left of dotted curve.

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).

180 CPV

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
1400	744	555	.09	697	.17	821	.26	932	.35												
1600	851	579	.11	724	.19	840	.29	947	.39	1044	.50	1708	.27								
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						
4600	2446	1251	1.03	1308	1.21	1366	1.41	1422	1.61	1474	1.81	1527	2.01	1583	2.22						
4800	2553	1300	1.15	1355	1.34	1411	1.54	1465	1.75	1516	1.96	1566	2.17								
5000	2659	1349	1.28	1403	1.48	1456	1.69	1509	1.91	1559	2.13										
5200	2766	1399	1.43	1450	1.63	1502	1.85	1553	2.07												
5400	2872	1450	1.59	1498	1.79	1547	2.01														
5600	2978	1500	1.75	1547	1.96																

180 CPS / CPA

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
1800	957	955	0.39	1034	0.49																		
2100	1117	1015	0.48	1084	0.58	1152	0.68																
2400	1276	1080	0.57	1145	0.68	1207	0.80	1267	0.92	1326	1.04												
2700	1436	1150	0.69	1211	0.81	1270	0.93	1326	1.06	1380	1.19	1485	1.46										
3000	1595	1222	0.82	1281	0.95	1337	1.09	1390	1.22	1441	1.36	1540	1.65	1634	1.95	1728	2.28						
3300	1755	1298	0.98	1353	1.12	1406	1.26	1457	1.41	1507	1.56	1600	1.86	1689	2.18	1775	2.51	1861	2.86				
3600	1914	1378	1.16	1429	1.31	1479	1.46	1527	1.61	1575	1.78	1665	2.10	1750	2.44	1831	2.78	1911	3.14	1989	3.51	2068	3.91
3900	2074	1458	1.36	1507	1.52	1554	1.68	1600	1.85	1645	2.02	1732	2.36	1814	2.72	1892	3.08	1968	3.45	2042	3.84	2114	4.24
4200	2234	1541	1.59	1587	1.76	1632	1.94	1675	2.11	1718	2.29	1801	2.65	1881	3.03	1957	3.41	2029	3.80	2100	4.20	2169	4.61
4500	2393	1626	1.85	1669	2.03	1711	2.21	1753	2.40	1794	2.59	1873	2.97	1949	3.36	2023	3.77	2094	4.18	2162	4.60	2228	5.02
4800	2553	1712	2.13	1753	2.33	1793	2.53	1832	2.72	1871	2.92	1947	3.33	2021	3.74	2092	4.16	2160	4.58	2227	5.03		
5100	2712	1799	2.45	1838	2.66	1876	2.87	1913	3.07	1951	3.29	2023	3.71	2094	4.15	2162	4.58	2229	5.03				
5400	2872	1886	2.80	1923	3.02	1960	3.24	1996	3.46	2032	3.69	2101	4.13	2168	4.58	2235	5.05						
5700	3032	1974	3.18	2010	3.42	2045	3.65	2080	3.89	2114	4.12	2180	4.59	2245	5.06								
6000	3191	2063	3.61	2097	3.85	2131	4.10	2164	4.35	2197	4.59	2261	5.09										
6300	3351	2152	4.06	2186	4.33	2218	4.59	2250	4.85														
6600	3510	2242	4.57																				

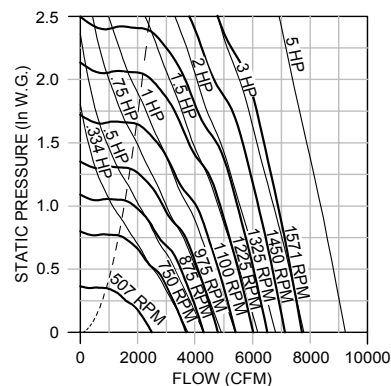
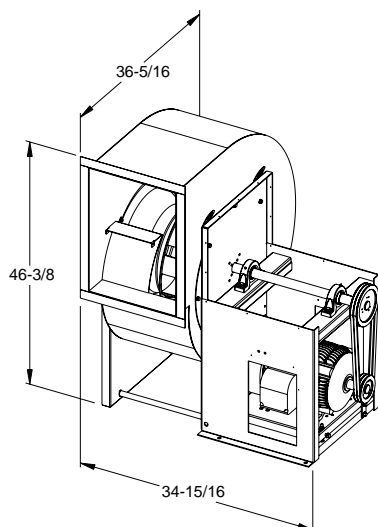
180 CPS-A / CPA-A

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
1500	797	908	0.31																				
1800	957	925	0.36	1017	0.45																		
2100	1117	976	0.43	1046	0.52	1122	0.62	1203	0.74														
2400	1276	1028	0.52	1100	0.62	1163	0.72	1226	0.83	1293	0.95	1435	1.22										
2700	1436	1073	0.61	1152	0.73	1219	0.85	1276	0.96	1331	1.08	1447	1.34	1574	1.64								
3000	1595	1128	0.71	1197	0.84	1269	0.98	1331	1.11	1385	1.23	1485	1.49	1589	1.78	1702	2.11	1815	2.45				
3300	1755	1193	0.83	1251	0.97	1314	1.11	1379	1.26	1439	1.41	1539	1.69	1629	1.97	1722	2.28	1823	2.63	1927	3.00		
3600	1914	1263	0.98	1314	1.12	1367	1.26	1425	1.42	1485	1.58	1594	1.90	1683	2.21	1766	2.52	1850	2.85	1940	3.21	2035	3.61
3900	2074	1333	1.14	1382	1.29	1430	1.44	1479	1.60	1531	1.76	1642	2.12	1738	2.46	1820	2.79	1896	3.13	1973	3.48	2054	3.86
4200	2234	1404	1.31	1453	1.48	1498	1.64	1542	1.81	1587	1.98	1686	2.34	1788	2.73	1875	3.09	1951	3.45	2023	3.81	2093	4.18
4500	2393	1476	1.50	1524	1.69	1568	1.87	1610	2.04	1651	2.22	1737	2.59	1832	2.99	1925	3.39	2007	3.79	2078	4.17		
4800	2553	1548	1.72	1595	1.91	1638	2.11	1679	2.30	1718	2.48	1796	2.86	1879	3.26	1970	3.70	2057	4.14				
5100	2712	1620	1.94	1666	2.16	1709	2.37	1750	2.58	1788	2.77	1861	3.17	1935	3.58	2016	4.02	2101	4.48				
5400	2872	1694	2.20	1738	2.43	1781	2.65	1821	2.87	1859	3.09	1929	3.51	1997	3.93	2068	4.37						
5700	3032	1769	2.48	1811	2.72	1853	2.96	1892	3.19	1929	3.42	1999	3.88	2064	4.32								
6000	3191	1844	2.79	1885	3.04	1925	3.29	1963	3.53	2000	3.78	2069	4.27										
6300	3351	1921	3.12	1959	3.38	1997	3.64	2035	3.90	2071	4.16												
6600	3510	1997	3.48	2035	3.76	2072	4.03	2108	4.30														
6900	3670	2075	3.88	2110	4.15																		

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).

195 CPV

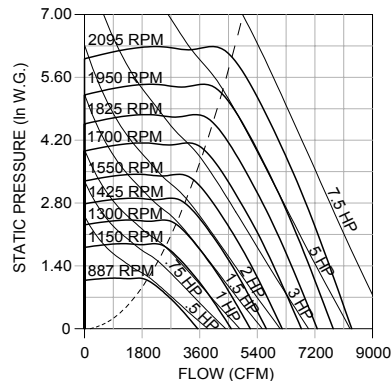
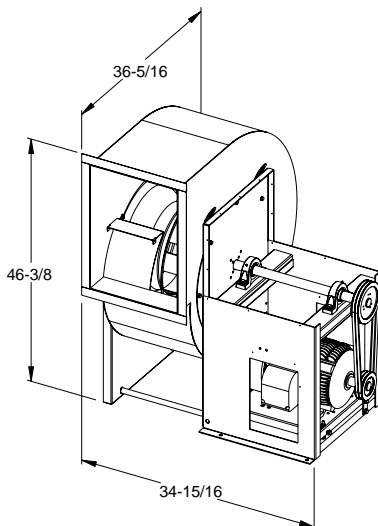
Wheel Diameter - 19.5"
Wheel Type - Flatblade
Tip Speed (FPM) = $5.11 \times \text{RPM}$
Max. BHP = $.84 \times (\text{RPM}/1000)^3$
Inlet Area - 2.31 Sq. Ft.
Outlet Area - 2.21 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/2.21$
Max. Motor Frame - 215T, Arr. 10
Approx. Ship Wt. - 379 lbs.



Do not select to left of dotted curve.

195 CPS / CPA

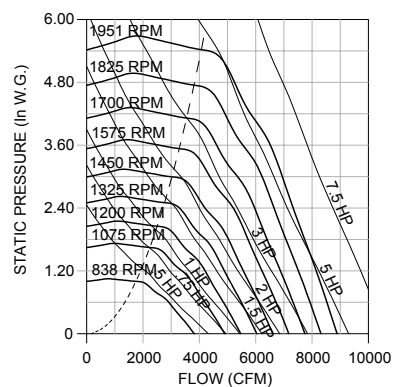
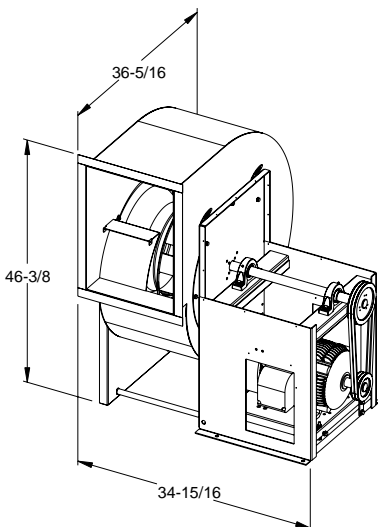
Wheel Diameter - 19.5"
Wheel Type - Flatblade
Tip Speed (FPM) = $5.11 \times \text{RPM}$
Max. BHP = $.64 \times (\text{RPM}/1000)^3$
Inlet Area - 2.31 Sq. Ft.
Outlet Area - 2.21 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/2.21$
Max. Mtr. Frame Size - 215T, Arr. 10
Approx. Ship Wt.
 195 CPS - 440 lbs.
 195 CPA - 297 lbs.



Do not select to left of dotted curve.

195 CPS-A / CPA-A

Wheel Diameter - 19.5"
Wheel Type - Airfoil
Tip Speed (FPM) = $5.11 \times \text{RPM}$
Max. BHP = $.77 \times (\text{RPM}/1000)^3$
Inlet Area - 2.31 Sq. Ft.
Outlet Area - 2.21 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/2.21$
Max. Mtr. Frame Size - 215T, Arr. 10
Approx. Ship Wt.
 195 CPS-A - 450 lbs.
 195 CPA-A - 320 lbs.



Do not select to left of dotted curve.

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).

195 CPV

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
1600	723	507	.10	639	.19	755	.30	858	.41												
1900	859	537	.13	671	.23	778	.34	876	.47	965	.60	1708	.27								
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														

195 CPS/CPA

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
2150	972	887	0.47	958	0.58																		
2500	1130	942	0.57	1006	0.69	1068	0.81	1129	0.95														
2850	1289	1003	0.68	1063	0.82	1120	0.95	1175	1.09	1229	1.24												
3200	1447	1067	0.82	1124	0.96	1178	1.11	1229	1.26	1279	1.41	1375	1.74										
3550	1605	1134	0.98	1188	1.13	1239	1.29	1288	1.45	1335	1.61	1426	1.96	1513	2.32	1599	2.70						
3900	1764	1204	1.16	1254	1.33	1303	1.50	1350	1.67	1395	1.84	1481	2.20	1563	2.58	1643	2.97	1721	3.38				
4250	1922	1277	1.38	1324	1.55	1370	1.73	1415	1.92	1458	2.10	1541	2.48	1619	2.88	1694	3.29	1767	3.71	1840	4.16	1911	4.61
4600	2080	1351	1.61	1396	1.80	1439	2.00	1481	2.19	1523	2.39	1603	2.79	1678	3.21	1750	3.64	1820	4.08	1888	4.53	1955	5.00
4950	2239	1428	1.88	1470	2.09	1510	2.29	1551	2.50	1590	2.71	1667	3.14	1740	3.58	1810	4.03	1876	4.48	1942	4.96	2005	5.44
5300	2397	1505	2.18	1545	2.40	1584	2.62	1622	2.84	1659	3.06	1732	3.51	1803	3.97	1871	4.45	1936	4.93	1999	5.42	2060	5.92
5650	2555	1584	2.52	1622	2.75	1658	2.98	1695	3.22	1731	3.45	1801	3.93	1868	4.41	1934	4.90	1997	5.41	2058	5.92		
6000	2713	1663	2.89	1699	3.13	1734	3.38	1769	3.63	1803	3.87	1870	4.37	1935	4.88	1999	5.40	2060	5.93				
6350	2872	1743	3.30	1778	3.56	1812	3.82	1845	4.08	1878	4.35	1942	4.87	2004	5.40	2065	5.94						
6700	3030	1824	3.75	1858	4.03	1890	4.30	1922	4.58	1953	4.85	2015	5.41	2074	5.96								
7050	3188	1906	4.24	1938	4.54	1969	4.83	2000	5.12	2030	5.41	2089	5.99										
7400	3347	1988	4.78	2019	5.09	2049	5.40	2078	5.70														
7750	3505	2071	5.37																				

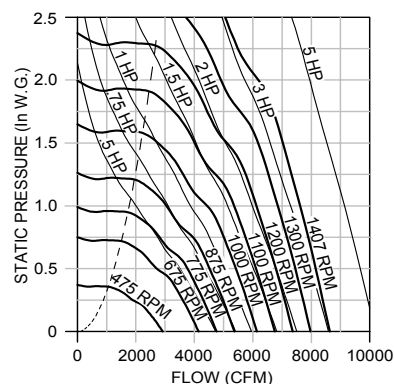
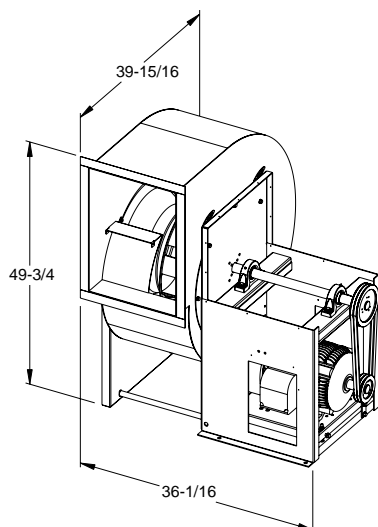
195 CPS-A/CPA-A

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
1800	814	838	0.37																				
2150	972	858	0.43	940	0.54																		
2500	1130	906	0.52	971	0.62	1038	0.74	1111	0.88	1185	1.02												
2850	1289	953	0.62	1021	0.74	1079	0.86	1136	0.99	1196	1.13	1326	1.45										
3200	1447	995	0.72	1068	0.87	1130	1.01	1183	1.14	1233	1.28	1338	1.58	1454	1.94								
3550	1605	1046	0.84	1109	1.00	1175	1.16	1233	1.32	1283	1.47	1375	1.77	1469	2.11	1572	2.49	1676	2.90				
3900	1764	1107	0.99	1159	1.15	1216	1.31	1276	1.49	1332	1.67	1425	2.00	1508	2.34	1593	2.70	1685	3.11	1780	3.54		
4250	1922	1170	1.16	1218	1.33	1266	1.50	1318	1.68	1374	1.87	1475	2.25	1557	2.61	1633	2.97	1710	3.36	1793	3.79	1879	4.25
4600	2080	1235	1.35	1281	1.53	1324	1.70	1369	1.89	1417	2.09	1519	2.51	1608	2.91	1684	3.30	1754	3.70	1824	4.10	1898	4.55
4950	2239	1300	1.55	1345	1.75	1387	1.94	1427	2.13	1468	2.33	1559	2.76	1653	3.22	1734	3.65	1805	4.07	1870	4.49	1935	4.92
5300	2397	1366	1.78	1410	1.99	1451	2.20	1489	2.41	1527	2.62	1606	3.05	1694	3.52	1780	4.01	1855	4.47	1921	4.92		
5650	2555	1432	2.02	1475	2.26	1516	2.49	1553	2.71	1589	2.93	1661	3.38	1737	3.85	1821	4.36	1901	4.88				
6000	2713	1498	2.29	1541	2.55	1581	2.79	1618	3.03	1653	3.27	1721	3.74	1789	4.22	1863	4.73	1942	5.28				
6350	2872	1566	2.59	1607	2.86	1646	3.12	1683	3.38	1718	3.64	1783	4.13	1846	4.63	1912	5.15						
6700	3030	1635	2.92	1674	3.20	1712	3.48	1748	3.75	1783	4.03	1847	4.56	1907	5.08								
7050	3188	1704	3.28	1742	3.57	1779	3.87	1814	4.16	1848	4.45	1912	5.02										
7400	3347	1774	3.67	1810	3.97	1845	4.28	1880	4.59	1913	4.89												
7750	3505	1844	4.09	1879	4.41	1913	4.73	1947	5.05														
8100	3663	1916	4.56	1948	4.87																		

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). **Shaded area indicates reinforced wheel required.**

210 CPV

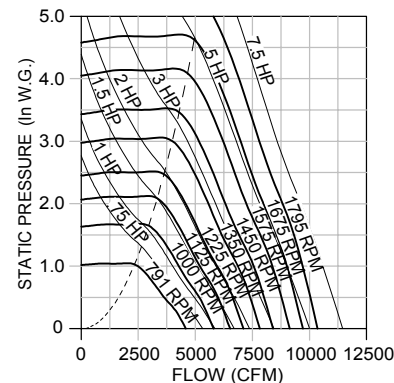
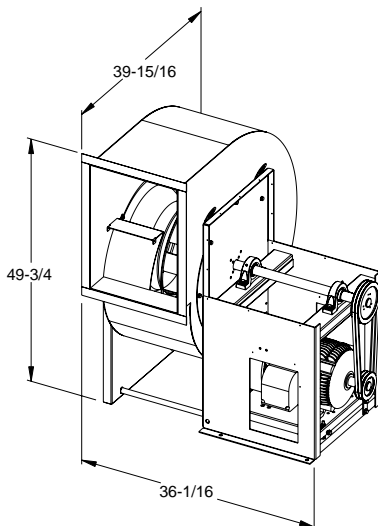
Wheel Diameter - 21"
Wheel Type - Flatblade
Tip Speed (FPM) = $5.50 \times \text{RPM}$
Max. BHP = $1.22 \times (\text{RPM}/1000)^3$
Inlet Area - 2.69 Sq. Ft.
Outlet Area - 2.57 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/2.57$
Max. Motor Frame - 215T, Arr. 10
Approx. Ship Wt. - 420 lbs.



Do not select to left of dotted curve.

210 CPS / CPA

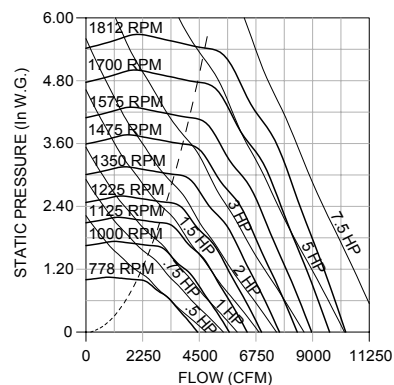
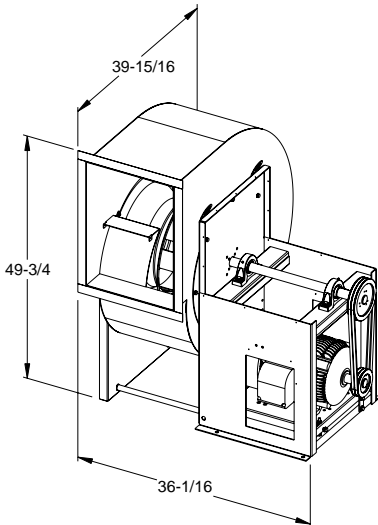
Wheel Diameter - 21"
Wheel Type - Flatblade
Tip Speed (FPM) = $5.50 \times \text{RPM}$
Max. BHP = $1.11 \times (\text{RPM}/1000)^3$
Inlet Area - 2.69 Sq. Ft.
Outlet Area - 2.57 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/2.57$
Max. Mtr. Frame Size - 215T, Arr. 10
Approx. Ship Wt.
 210 CPS - 490 lbs.
 210 CPA - 329 lbs.



Do not select to left of dotted curve.

210 CPS-A / CPA-A

Wheel Diameter - 21"
Wheel Type - Airfoil
Tip Speed (FPM) = $5.50 \times \text{RPM}$
Max. BHP = $1.12 \times (\text{RPM}/1000)^3$
Inlet Area - 2.69 Sq. Ft.
Outlet Area - 2.57 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/2.57$
Max. Mtr. Frame Size - 215T, Arr. 10
Approx. Ship Wt.
 210 CPS-A - 499 lbs.
 210 CPA-A - 353 lbs.



Do not select to left of dotted curve.

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).

210 CPV

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
1900	740	475	.12	597	.23	704	.35	799	.48												
2200	857	498	.15	623	.27	722	.40	813	.54	896	.69	1708	.27								
2500	974	528	.18	654	.31	745	.45	831	.60	911	.77	986	.93	1056	1.11						
2800	1091	565	.22	682	.37	774	.51	853	.67	930	.85	1002	1.03	1070	1.21	1134	1.40	1196	1.60		
3100	1208	605	.27	704	.41	805	.59	880	.75	951	.93	1020	1.12	1087	1.32	1149	1.52	1209	1.73	1267	1.94
3400	1325	646	.32	731	.47	832	.66	911	.84	977	1.02	1042	1.22	1106	1.43	1167	1.65	1226	1.88	1281	2.09
3700	1442	688	.39	766	.55	854	.74	941	.94	1008	1.14	1068	1.34	1128	1.55	1187	1.78	1244	2.02	1299	2.26
4000	1559	731	.46	805	.63	879	.82	967	1.04	1039	1.26	1099	1.47	1154	1.69	1209	1.92	1264	2.16	1317	2.41
4300	1676	774	.54	845	.73	910	.92	989	1.14	1067	1.39	1130	1.62	1184	1.84	1236	2.07	1287	2.32	1338	2.58
4600	1793	818	.64	885	.84	947	1.03	1013	1.25	1090	1.51	1159	1.77	1216	2.01	1267	2.26	1315	2.50	1363	2.76
4900	1909	863	.74	926	.95	985	1.16	1044	1.38	1112	1.64	1184	1.92	1246	2.19	1298	2.45	1346	2.71	1391	2.97
5200	2026	908	.86	968	1.08	1026	1.31	1079	1.53	1138	1.78	1206	2.07	1272	2.37	1328	2.65	1377	2.92		
5500	2143	955	1.00	1011	1.22	1066	1.46	1117	1.70	1170	1.95	1229	2.22	1294	2.53	1355	2.85	1407	3.15		
5800	2260	1000	1.14	1054	1.38	1107	1.63	1157	1.88	1205	2.13	1257	2.40	1316	2.71	1378	3.05				
6100	2377	1047	1.3	1098	1.55	1149	1.81	1197	2.08	1243	2.34	1290	2.61	1342	2.91	1400	3.25				
6400	2494	1094	1.48	1142	1.73	1190	2.00	1238	2.29	1282	2.56	1326	2.84	1372	3.13						
6700	2611	1140	1.67	1186	1.93	1233	2.22	1279	2.51	1322	2.80	1364	3.09	1406	3.38						
7000	2728	1187	1.88	1232	2.16	1276	2.45	1320	2.75	1363	3.06	1403	3.36								
7300	2845	1235	2.12	1276	2.39	1319	2.69	1362	3.01	1403	3.33										
7600	2962	1282	2.36	1323	2.65	1363	2.96	1404	3.28												
7900	3079	1329	2.63	1369	2.93																

210 CPS/CPA

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
2500	974	791	0.53																				
2950	1149	834	0.64	897	0.79	961	0.95																
3400	1325	886	0.78	943	0.93	999	1.10	1054	1.27	1109	1.46												
3850	1500	943	0.94	996	1.10	1047	1.28	1097	1.46	1146	1.65	1243	2.06										
4300	1676	1003	1.12	1054	1.31	1101	1.49	1148	1.69	1193	1.89	1281	2.31	1368	2.76								
4750	1851	1064	1.34	1113	1.53	1159	1.74	1203	1.94	1245	2.15	1327	2.59	1407	3.06	1486	3.56	1565	4.08				
5200	2026	1125	1.58	1175	1.80	1219	2.02	1261	2.24	1301	2.46	1379	2.92	1454	3.41	1526	3.91	1599	4.46	1671	5.02		
5650	2202	1185	1.84	1236	2.09	1280	2.33	1321	2.57	1361	2.81	1435	3.30	1505	3.80	1574	4.33	1641	4.88	1707	5.45	1774	6.05
6100	2377	1244	2.13	1296	2.41	1341	2.67	1383	2.94	1421	3.19	1492	3.71	1560	4.24	1626	4.79	1689	5.35	1752	5.95		
6550	2553	1305	2.46	1355	2.76	1402	3.05	1444	3.34	1482	3.61	1552	4.16	1618	4.73	1680	5.29	1741	5.88				
7000	2728	1369	2.82	1415	3.14	1461	3.45	1504	3.77	1543	4.07	1613	4.67	1677	5.26	1738	5.86						
7450	2903	1435	3.23	1476	3.55	1521	3.90	1564	4.24	1603	4.56	1674	5.21	1737	5.83								
7900	3079	1502	3.68	1541	4.02	1582	4.38	1623	4.74	1663	5.09	1735	5.79										
8350	3254	1571	4.18	1607	4.54	1645	4.91	1683	5.27	1722	5.66												
8800	3430	1642	4.74	1674	5.10	1708	5.47	1745	5.87	1783	6.27												
9250	3605	1713	5.35	1744	5.73	1776	6.12																

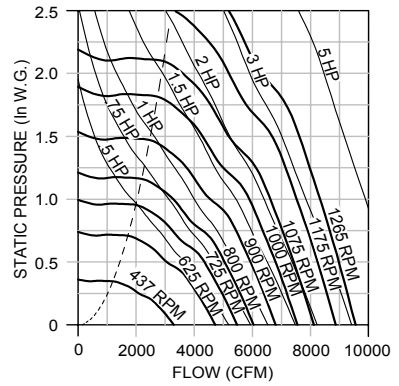
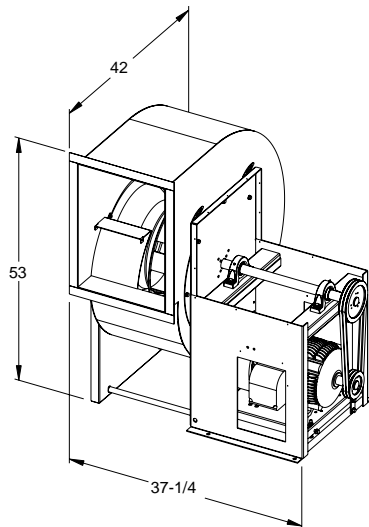
210 CPS-A/CPA-A

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
2050	799	778	0.42																				
2500	974	797	0.49	874	0.62																		
2950	1149	847	0.61	907	0.74	968	0.88	1033	1.03	1101	1.20												
3400	1325	894	0.74	959	0.89	1013	1.04	1064	1.19	1117	1.35	1233	1.71										
3850	1500	939	0.88	1004	1.05	1064	1.23	1115	1.39	1161	1.56	1252	1.90	1353	2.31	1456	2.75						
4300	1676	996	1.05	1049	1.23	1108	1.42	1164	1.62	1213	1.81	1297	2.17	1378	2.55	1466	2.99	1559	3.46				
4750	1851	1060	1.25	1106	1.44	1154	1.64	1207	1.85	1259	2.06	1350	2.48	1425	2.88	1499	3.31	1575	3.76	1658	4.26	1742	4.80
5200	2026	1127	1.49	1170	1.69	1211	1.89	1254	2.10	1302	2.33	1397	2.80	1478	3.26	1548	3.70	1614	4.15	1683	4.63	1755	5.15
5650	2202	1194	1.74	1236	1.97	1275	2.19	1313	2.41	1352	2.64	1440	3.14	1526	3.65	1600	4.14	1665	4.62	1727	5.11	1789	5.61
6100	2377	1261	2.03	1303	2.28	1340	2.52	1376	2.75	1412	3.00	1486	3.49	1568	4.04	1648	4.59	1718	5.13	1779	5.65		
6550	2553	1329	2.34	1370	2.62	1407	2.88	1442	3.14	1476	3.40	1542	3.91	1613	4.46	1690	5.05	1765	5.65				
7000	2728	1398	2.69	1437	2.99	1474	3.28	1509	3.56	1541	3.83	1604	4.38	1666	4.93	1734	5.53	1807	6.17				
7450	2903	1468	3.08	1506	3.40	1542	3.71	1576	4.01	1608	4.31	1668	4.89	1726	5.47	1786	6.08						
7900	3079	1539	3.52	1575	3.85	1609	4.17	1643	4.50	1675	4.82	1734	5.45	1790	6.07								
8350	3254	1610	3.99	1644	4.33	1678	4.68	1711	5.03	1742	5.38	1801	6.05										
8800	3430	1683	4.52	1715	4.87	1748	5.24	1779	5.60	1810	5.97												
9250	3605	1755	5.08	1786	5.45																		

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). **Shaded area indicates reinforced wheel required.**

225 CPV

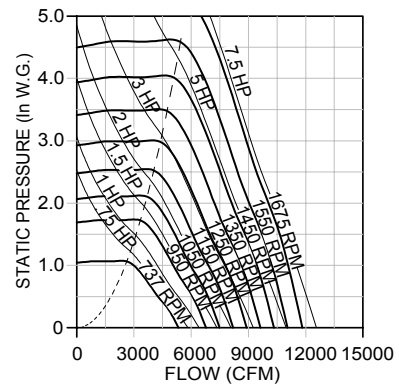
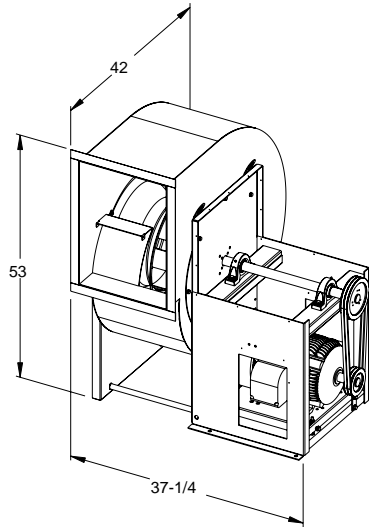
Wheel Diameter - 22.5"
Wheel Type - Flatblade
Tip Speed (FPM) = 5.89 x RPM
Max. BHP = 1.72 x (RPM/1000)³
Inlet Area - 3.02 Sq. Ft.
Outlet Area - 2.94 Sq. Ft.
Outlet Velocity (FPM) = CFM/2.94
Max. Motor Frame - 215T, Arr. 10
Approx. Ship Wt. - 465 lbs.



Do not select to left of dotted curve.

225 CPS / CPA

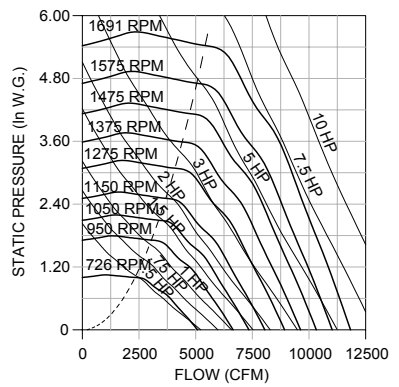
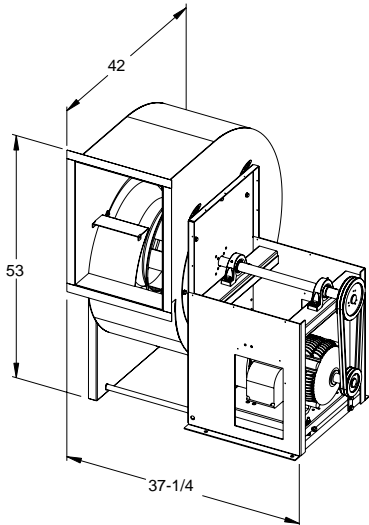
Wheel Diameter - 22.5"
Wheel Type - Flatblade
Tip Speed (FPM) = 5.89 x RPM
Max. BHP = $1.57 \times (\text{RPM}/1000)^3$
Inlet Area - 3.02 Sq. Ft.
Outlet Area - 2.94 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/2.94$
Max. Mtr. Frame Size - 215T, Arr. 10
Approx. Ship Wt.
 225 CPS - 537 lbs.
 225 CPA - 361 lbs.



Do not select to left of dotted curve.

225 CPS-A / CPA-A

Wheel Diameter - 22.5"
Wheel Type - Airfoil
Tip Speed (FPM) = 5.89 x RPM
Max. BHP = $1.58 \times (\text{RPM}/1000)^3$
Inlet Area - 3.02 Sq. Ft.
Outlet Area - 2.94 Sq. Ft.
Outlet Velocity (FPM) = CFM/2.94
Max. Mtr. Frame Size - 215T, Arr. 10
Approx. Ship Wt.
 225 CPS-A - 547 lbs.
 225 CPA-A - 391 lbs.



Do not select to left of dotted curve.

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).

225 CPV

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
2100	714	437	.13	552	.25	653	.39	743	.54												
2450	833	460	.16	575	.29	670	.45	755	.60	833	.77	1708	.27								
2800	952	486	.20	604	.35	690	.50	772	.68	847	.86	917	1.05	983	1.25						
3150	1071	521	.24	632	.41	717	.58	791	.75	864	.95	932	1.16	995	1.37	1056	1.58	1115	1.81		
3500	1190	558	.30	653	.47	746	.66	816	.84	883	1.05	949	1.27	1011	1.50	1070	1.73	1126	1.96	1180	2.20
3850	1309	597	.36	678	.53	773	.75	845	.95	908	1.16	969	1.39	1029	1.63	1086	1.87	1141	2.13	1193	2.38
4200	1428	637	.44	710	.62	794	.83	875	1.07	936	1.29	993	1.52	1049	1.76	1104	2.02	1158	2.29	1209	2.56
4550	1548	677	.52	746	.71	817	.93	899	1.18	966	1.43	1021	1.67	1074	1.92	1125	2.18	1177	2.46	1227	2.75
4900	1667	718	.61	784	.83	846	1.04	920	1.30	993	1.58	1051	1.84	1102	2.10	1151	2.37	1199	2.65	1246	2.94
5250	1786	760	.72	823	.95	880	1.17	943	1.43	1016	1.73	1079	2.02	1132	2.30	1179	2.57	1225	2.86		
5600	1905	803	.85	862	1.09	917	1.33	972	1.58	1036	1.87	1103	2.19	1160	2.50	1209	2.80	1253	3.09		
5950	2024	845	.98	901	1.23	955	1.49	1005	1.75	1061	2.03	1124	2.36	1185	2.70	1238	3.03				
6300	2143	889	1.14	942	1.40	993	1.67	1041	1.94	1090	2.22	1146	2.55	1207	2.91	1263	3.26				
6650	2262	932	1.30	983	1.58	1032	1.87	1079	2.16	1124	2.45	1172	2.75	1228	3.11						
7000	2381	977	1.50	1024	1.77	1071	2.08	1117	2.39	1160	2.69	1203	2.99	1252	3.34						
7350	2500	1021	1.70	1066	1.99	1111	2.31	1155	2.63	1197	2.95	1238	3.27								
7700	2619	1065	1.93	1108	2.23	1152	2.56	1194	2.89	1235	3.23										
8050	2738	1110	2.18	1151	2.49	1192	2.82	1233	3.17												
8400	2857	1155	2.45	1194	2.77	1234	3.11														
8750	2977	1200	2.74	1237	3.07																

225 CPS / CPA

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
2850	969	737	0.61																				
3350	1139	775	0.73	835	0.90	895	1.08																
3850	1309	822	0.87	876	1.05	928	1.24	981	1.44	1033	1.66												
4350	1479	873	1.05	923	1.24	971	1.44	1018	1.65	1065	1.87	1157	2.33										
4850	1650	927	1.25	974	1.45	1020	1.67	1063	1.89	1106	2.12	1189	2.60	1272	3.12								
5350	1820	982	1.48	1028	1.71	1071	1.93	1113	2.17	1153	2.41	1230	2.91	1306	3.45	1381	4.01						
5850	1990	1037	1.74	1083	1.99	1125	2.24	1165	2.49	1203	2.74	1276	3.27	1347	3.82	1416	4.40	1484	5.00	1553	5.65		
6350	2160	1091	2.03	1139	2.31	1180	2.58	1219	2.85	1255	3.11	1325	3.66	1392	4.24	1457	4.84	1521	5.46	1584	6.11	1647	6.79
6850	2330	1145	2.35	1193	2.65	1236	2.95	1274	3.24	1310	3.53	1377	4.11	1441	4.71	1503	5.34	1563	5.98	1623	6.65		
7350	2500	1200	2.70	1247	3.03	1290	3.35	1329	3.67	1365	3.99	1430	4.60	1492	5.23	1552	5.89	1609	6.55	1666	7.24		
7850	2670	1256	3.08	1301	3.44	1344	3.79	1384	4.14	1420	4.48	1485	5.14	1545	5.80	1602	6.48	1658	7.18				
8350	2840	1315	3.52	1356	3.89	1398	4.27	1438	4.65	1475	5.02	1541	5.73	1600	6.43	1655	7.13						
8850	3011	1375	4.00	1413	4.38	1452	4.78	1492	5.19	1529	5.59	1596	6.36	1655	7.11								
9350	3181	1437	4.53	1471	4.92	1508	5.34	1546	5.77	1583	6.20	1651	7.03										
9850	3351	1499	5.11	1532	5.53	1566	5.96	1601	6.40	1637	6.85												
10350	3521	1565	5.78	1594	6.19	1625	6.63	1658	7.09														
10850	3691	1629	6.48	1656	6.90																		

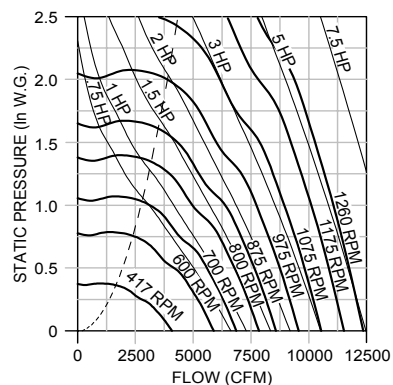
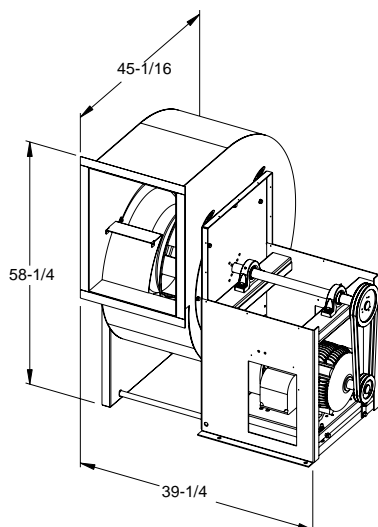
225 CPS-A / CPA-A

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
2350	799	726	0.48																				
2850	969	742	0.56	815	0.71																		
3350	1139	787	0.69	843	0.84	900	0.99	963	1.17	1027	1.37												
3850	1309	830	0.84	890	1.01	940	1.17	988	1.34	1039	1.52	1149	1.94										
4350	1479	870	0.99	932	1.19	987	1.38	1033	1.56	1076	1.75	1164	2.15	1261	2.62								
4850	1650	920	1.17	971	1.37	1027	1.60	1079	1.81	1124	2.02	1202	2.43	1280	2.88	1365	3.38	1453	3.92				
5350	1820	978	1.40	1021	1.60	1067	1.83	1118	2.07	1167	2.31	1250	2.78	1320	3.23	1390	3.71	1465	4.24	1544	4.82	1624	5.43
5850	1990	1037	1.64	1077	1.87	1117	2.10	1159	2.34	1205	2.60	1294	3.13	1368	3.64	1433	4.14	1496	4.65	1563	5.21	1633	5.81
6350	2160	1098	1.92	1137	2.17	1173	2.42	1210	2.67	1248	2.93	1333	3.50	1413	4.07	1480	4.61	1541	5.16	1599	5.70	1658	6.28
6850	2330	1158	2.23	1197	2.51	1233	2.78	1266	3.04	1300	3.31	1373	3.89	1452	4.51	1525	5.12	1588	5.71	1645	6.29		
7350	2500	1220	2.57	1258	2.88	1293	3.17	1326	3.46	1357	3.74	1421	4.33	1491	4.96	1565	5.63	1633	6.29				
7850	2670	1282	2.95	1318	3.27	1353	3.59	1386	3.91	1416	4.22	1475	4.83	1536	5.46	1603	6.15	1672	6.87				
8350	2840	1344	3.36	1380	3.71	1414	4.06	1446	4.40	1476	4.73	1533	5.38	1588	6.03	1647	6.73						
8850	3011	1408	3.82	1442	4.19	1475	4.56	1507	4.93	1537	5.29	1592	5.98	1645	6.68								
9350	3181	1472	4.33	1505	4.72	1537	5.11	1568	5.50	1597	5.88	1652	6.63										
9850	3351	1537	4.88	1568	5.28	1599	5.70	1629	6.11	1658	6.52												
10350	3521	1603	5.50	1633	5.92	1662	6.34	1691	6.77														

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). **Shaded area indicates reinforced wheel required.**

245 CPV

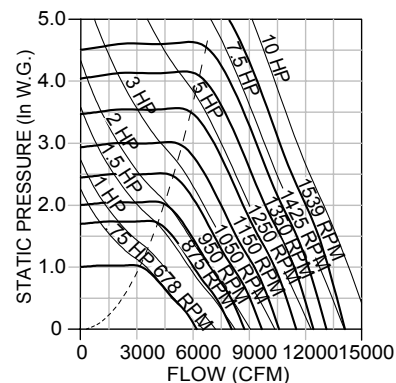
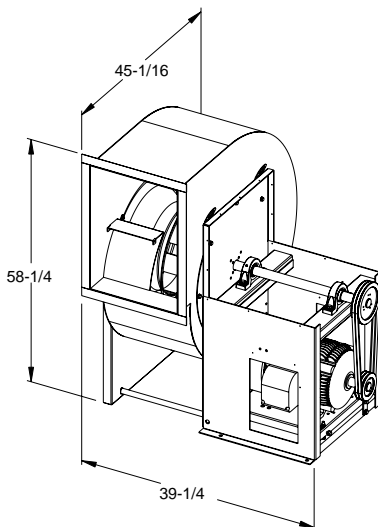
Wheel Diameter - 24.5"
Wheel Type - Flatblade
Tip Speed (FPM) = $6.41 \times \text{RPM}$
Max. BHP = $2.68 \times (\text{RPM}/1000)^3$
Inlet Area - 3.64 Sq. Ft.
Outlet Area - 3.49 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/3.49$
Max. Motor Frame - 215T, Arr. 10
Approx. Ship Wt. - 527 lbs.



Do not select to left of dotted curve.

245 CPS / CPA

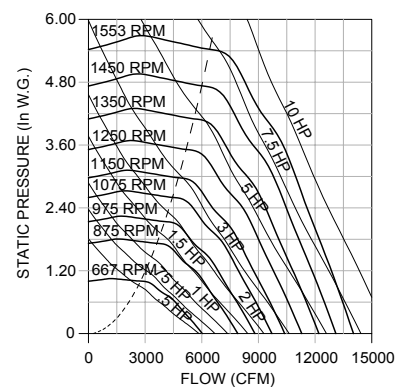
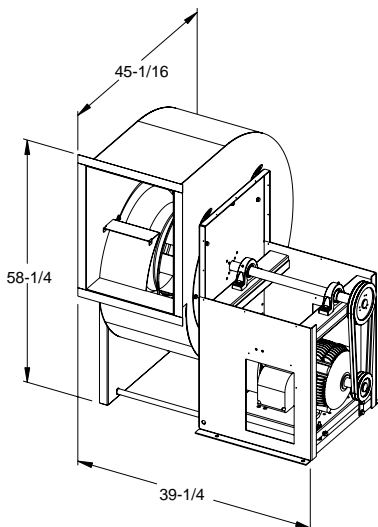
Wheel Diameter - 24.5"
Wheel Type - Flatblade
Tip Speed (FPM) = $6.41 \times \text{RPM}$
Max. BHP = $2.40 \times (\text{RPM}/1000)^3$
Inlet Area - 3.64 Sq. Ft.
Outlet Area - 3.49 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/3.49$
Max. Mtr. Frame Size - 215T, Arr. 10
Approx. Ship Wt.
 245 CPS - 608 lbs.
 245 CPA - 406 lbs.



Do not select to left of dotted curve.

245 CPS-A / CPA-A

Wheel Diameter - 24.5"
Wheel Type - Airfoil
Tip Speed (FPM) = $6.41 \times \text{RPM}$
Max. BHP = $2.23 \times (\text{RPM}/1000)^3$
Inlet Area - 3.64 Sq. Ft.
Outlet Area - 3.49 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/3.49$
Max. Mtr. Frame Size - 215T, Arr. 10
Approx. Ship Wt.
 245 CPS-A - 620 lbs.
 245 CPA-A - 442 lbs.



Do not select to left of dotted curve.

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).

245 CPV

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
2800	802	417	.18	520	.34	609	.51	691	.70												
3200	916	438	.22	545	.39	625	.57	702	.77	774	.99	1708	.27								
3600	1031	466	.27	571	.45	647	.65	717	.86	786	1.08	850	1.33								
4000	1145	498	.33	592	.53	673	.74	738	.96	801	1.19	862	1.44	921	1.70	977	1.98				
4400	1260	532	.40	612	.61	699	.83	763	1.07	821	1.32	878	1.58	934	1.84	989	2.13	1041	2.43	1091	2.75
4800	1374	566	.48	638	.70	720	.94	789	1.19	845	1.45	898	1.72	950	2.00	1002	2.29	1053	2.60	1102	2.92
5200	1489	600	.57	668	.80	739	1.05	814	1.32	872	1.60	922	1.88	971	2.18	1019	2.48	1067	2.79	1115	3.12
5600	1604	636	.67	700	.92	762	1.18	834	1.46	897	1.75	948	2.05	995	2.37	1040	2.68	1085	3.01	1130	3.34
6000	1718	672	.79	733	1.05	790	1.32	853	1.62	920	1.93	974	2.24	1021	2.56	1064	2.89	1106	3.23	1149	3.59
6400	1833	709	.92	767	1.19	821	1.48	876	1.79	939	2.11	998	2.44	1047	2.78	1091	3.13	1131	3.48	1171	3.84
6800	1947	746	1.07	801	1.36	853	1.66	902	1.97	959	2.31	1019	2.66	1072	3.01	1117	3.37	1157	3.73	1196	4.11
7200	2062	785	1.24	836	1.54	886	1.85	933	2.18	982	2.52	1038	2.89	1093	3.25	1142	3.63	1184	4.01	1222	4.40
7600	2176	823	1.42	871	1.73	919	2.06	964	2.40	1009	2.76	1058	3.12	1112	3.51	1164	3.91	1209	4.30	1249	4.71
8000	2291	861	1.62	906	1.94	953	2.29	997	2.64	1039	3.01	1083	3.40	1132	3.79	1183	4.20	1231	4.61		
8400	2406	900	1.85	943	2.18	987	2.54	1030	2.91	1070	3.28	1111	3.68	1154	4.08	1202	4.50	1251	4.94		
8800	2520	939	2.09	979	2.43	1022	2.81	1063	3.19	1103	3.58	1141	3.99	1180	4.40	1223	4.83				
9200	2635	978	2.36	1017	2.72	1057	3.10	1097	3.49	1136	3.90	1172	4.31	1209	4.75	1248	5.19				
9600	2749	1018	2.66	1054	3.02	1092	3.41	1131	3.82	1169	4.24	1205	4.67	1239	5.10						
10000	2864	1057	2.97	1092	3.35	1128	3.74	1166	4.17	1202	4.60	1238	5.05								
10400	2978	1096	3.30	1130	3.70	1165	4.11	1201	4.55	1236	4.99										
10800	3093	1136	3.67	1168	4.07	1201	4.49	1236	4.95												
11200	3208	1175	4.05	1207	4.48	1239	4.92														

245 CPS / CPA

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
3400	973	678	0.73																				
4000	1145	714	0.87	769	1.07	823	1.29																
4600	1317	757	1.05	807	1.26	855	1.48	902	1.72	950	1.98												
5200	1489	805	1.26	851	1.49	895	1.72	938	1.97	980	2.23	1065	2.79										
5800	1661	855	1.50	899	1.75	940	2.00	980	2.26	1019	2.54	1095	3.11	1171	3.73								
6400	1833	907	1.79	949	2.05	989	2.33	1026	2.60	1063	2.89	1134	3.49	1203	4.13	1271	4.80	1340	5.51				
7000	2005	958	2.10	1000	2.40	1039	2.70	1075	2.99	1110	3.30	1177	3.92	1241	4.58	1304	5.27	1366	5.99	1429	6.75		
7600	2176	1008	2.45	1052	2.79	1090	3.11	1125	3.42	1159	3.75	1223	4.41	1284	5.09	1343	5.80	1401	6.54	1459	7.32	1516	8.13
8200	2348	1058	2.83	1102	3.20	1141	3.56	1177	3.91	1209	4.25	1271	4.95	1330	5.67	1386	6.41	1441	7.17	1495	7.97		
8800	2520	1109	3.26	1152	3.66	1192	4.05	1228	4.43	1261	4.81	1321	5.55	1378	6.31	1432	7.08	1484	7.86	1536	8.69		
9400	2692	1162	3.73	1202	4.15	1242	4.58	1279	5.00	1312	5.41	1372	6.20	1427	6.99	1479	7.80	1530	8.63				
10000	2864	1217	4.26	1254	4.70	1292	5.16	1329	5.61	1363	6.06	1423	6.91	1478	7.76	1529	8.61						
10600	3036	1272	4.84	1307	5.31	1343	5.79	1379	6.27	1413	6.75	1475	7.68	1529	8.58								
11200	3208	1331	5.50	1362	5.97	1395	6.47	1429	6.97	1463	7.49	1526	8.50										
11800	3379	1389	6.21	1418	6.70	1449	7.22	1481	7.75	1513	8.28												
12400	3551	1450	7.02	1476	7.51	1504	8.04	1534	8.58														
13000	3723	1509	7.86	1534	8.38																		

245 CPS-A / CPA-A

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
2800	802	667	0.57																				
3400	973	683	0.67	748	0.85																		
4000	1145	725	0.83	776	1.00	828	1.19	885	1.40	943	1.62												
4600	1317	765	1.00	820	1.21	866	1.40	910	1.60	956	1.82	1056	2.32										
5200	1489	802	1.19	858	1.42	909	1.65	952	1.87	992	2.10	1071	2.57	1158	3.12								
5800	1661	849	1.41	895	1.65	946	1.91	994	2.17	1036	2.43	1108	2.92	1178	3.44	1255	4.03	1335	4.68				
6400	1833	903	1.68	942	1.93	984	2.19	1030	2.48	1075	2.77	1152	3.33	1217	3.88	1280	4.44	1348	5.07	1419	5.75	1492	6.48
7000	2005	959	1.99	995	2.25	1031	2.53	1069	2.82	1111	3.13	1193	3.77	1261	4.37	1320	4.96	1378	5.57	1438	6.23	1501	6.94
7600	2176	1015	2.32	1050	2.62	1084	2.92	1117	3.21	1152	3.53	1228	4.20	1302	4.89	1365	5.55	1420	6.19	1473	6.84	1527	7.53
8200	2348	1071	2.69	1107	3.03	1139	3.35	1170	3.67	1201	3.99	1266	4.67	1338	5.41	1406	6.15	1464	6.86	1517	7.56		
8800	2520	1128	3.11	1163	3.47	1195	3.83	1225	4.17	1254	4.51	1312	5.21	1375	5.96	1442	6.76	1505	7.55				
9400	2692	1186	3.57	1220	3.96	1251	4.34	1281	4.72	1309	5.09	1363	5.82	1418	6.58	1478	7.39	1541	8.25				
10000	2864	1244	4.07	1277	4.49	1308	4.91	1337	5.31	1365	5.72	1417	6.50	1467	7.28	1519	8.09						
10600	3036	1304	4.64	1334	5.07	1365	5.52	1394	5.96	1421	6.39	1472	7.23	1520	8.05								
11200	3208	1363	5.25	1393	5.71	1422	6.18	1451	6.66	1478	7.12	1528	8.02										
11800	3379	1424	5.93	1452	6.41	1480	6.90	1508	7.40	1534	7.89												
12400	3551	1485	6.67	1512	7.18	1539	7.69																

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). **Shaded area indicates reinforced wheel required.**

270 CPV

[illegible]

270 CPS / CPA

[illegible]

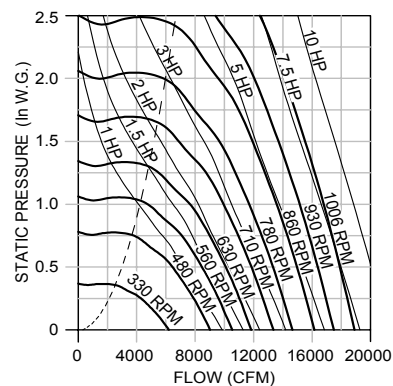
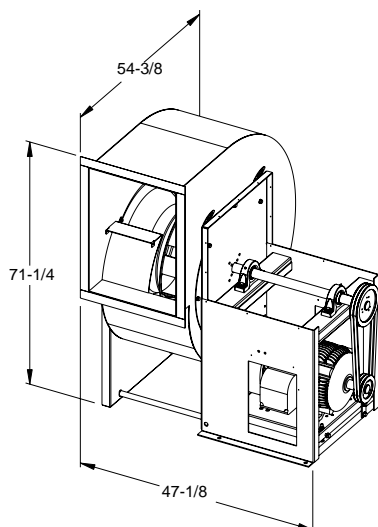
270 CPS-A / CPA-A

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
3450	814	611	.73																				
4050	956	625	.83	687	1.06																		
4650	1098	645	.96	703	1.20	757	1.44	810	1.71														
5250	1239	673	1.12	723	1.36	774	1.62	824	1.89	872	2.18												
5850	1381	708	1.32	752	1.57	797	1.83	842	2.11	888	2.41	974	3.04										
6450	1523	743	1.53	786	1.80	826	2.08	866	2.36	908	2.68	990	3.32	1068	4.02	1142	4.75						
7050	1665	775	1.76	821	2.06	860	2.36	897	2.66	933	2.97	1009	3.64	1084	4.36	1156	5.12	1224	5.91				
7650	1806	800	1.99	855	2.35	896	2.67	931	2.99	965	3.32	1033	4.01	1103	4.74	1172	5.52	1238	6.33	1302	7.18	1364	8.07
8250	1948	826	2.23	882	2.63	929	3.00	967	3.36	1000	3.71	1062	4.41	1126	5.17	1191	5.97	1255	6.80	1317	7.67	1377	8.58
8850	2090	858	2.51	907	2.92	958	3.34	1001	3.75	1035	4.12	1096	4.87	1154	5.65	1213	6.45	1274	7.31	1334	8.20	1393	9.14
9450	2231	895	2.84	935	3.25	983	3.69	1030	4.14	1069	4.57	1131	5.37	1186	6.17	1241	7.01	1296	7.87	1353	8.78	1410	9.74
10050	2373	934	3.21	968	3.61	1009	4.06	1056	4.56	1099	5.02	1166	5.90	1221	6.75	1272	7.60	1324	8.50	1376	9.42		
10650	2515	974	3.61	1005	4.02	1041	4.49	1081	4.97	1125	5.49	1200	6.47	1257	7.38	1307	8.27	1355	9.18	1404	10.10		
11250	2656	1014	4.04	1045	4.49	1076	4.95	1110	5.43	1149	5.95	1230	7.05	1292	8.04	1342	8.97	1389	9.92				
11850	2798	1057	4.54	1085	4.99	1113	5.45	1143	5.94	1177	6.47	1255	7.61	1324	8.71	1378	9.74						
12450	2940	1098	5.04	1125	5.52	1153	6.03	1180	6.52	1210	7.05	1279	8.19	1353	9.41	1412	10.50						
13050	3082	1142	5.63	1167	6.12	1193	6.63	1219	7.15	1246	7.68	1306	8.82	1378	10.10								
13650	3223	1184	6.23	1209	6.75	1234	7.29	1258	7.81	1283	8.36	1338	9.52	1402	10.80								
14250	3365	1227	6.89	1252	7.45	1275	7.98	1299	8.55	1323	9.11	1372	10.30										
14850	3507	1271	7.61	1295	8.19	1318	8.76	1340	9.32	1362	9.89	1409	11.10										
15450	3648	1314	8.37	1338	8.98	1359	9.54	1382	10.20	1403	10.70												
16050	3790	1358	9.19	1381	9.81	1403	10.40																

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). **Shaded area indicates reinforced wheel required.**

300 CPV

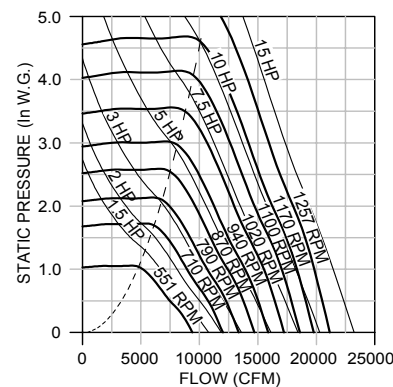
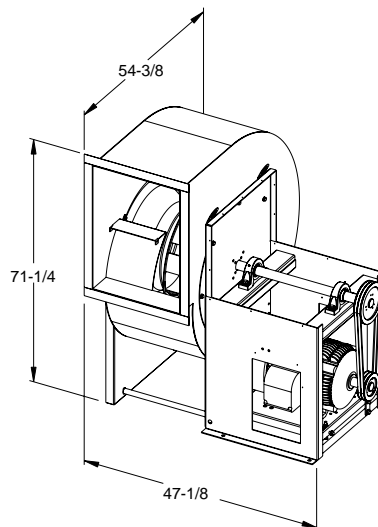
Wheel Diameter - 30"
Wheel Type - Flatblade
Tip Speed (FPM) = $7.85 \times \text{RPM}$
Max. BHP = $7.71 \times (\text{RPM}/1000)^3$
Inlet Area - 5.36 Sq. Ft.
Outlet Area - 5.23 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/5.23$
Max. Motor Frame - 256T, Arr. 10
Approx. Ship Wt. - 727 lbs.



Do not select to left of dotted curve.

300 CPS / CPA

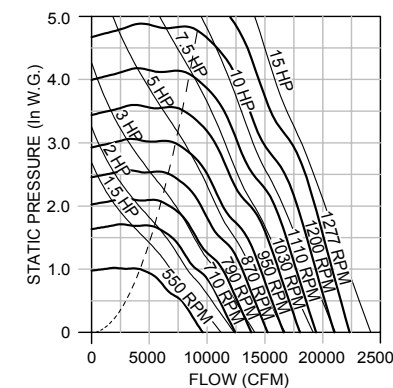
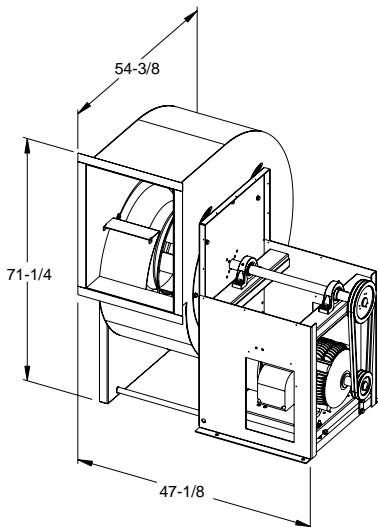
Wheel Diameter - 30"
Wheel Type - Flatblade
Tip Speed (FPM) = $7.85 \times \text{RPM}$
Max. BHP = $6.60 \times (\text{RPM}/1000)^3$
Inlet Area - 5.36 Sq. Ft.
Outlet Area - 5.23 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/5.23$
Max. Mtr. Frame Size - 256T, Arr. 10
Approx. Ship Wt.
 300 CPS - 879 lbs.
 300 CPA - 535 lbs.



Do not select to left of dotted curve.

300 CPS-A / CPA-A

Wheel Diameter - 30"
Wheel Type - Airfoil
Tip Speed (FPM) = $7.85 \times \text{RPM}$
Max. BHP = $6.71 \times (\text{RPM}/1000)^3$
Inlet Area - 5.36 Sq. Ft.
Outlet Area - 5.23 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/5.23$
Max. Mtr. Frame Size - 256T, Arr. 10
Approx. Ship Wt.
 300 CPS-A - 897 lbs.
 300 CPA-A - 585 lbs.



Do not select to left of dotted curve.

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).

300 CPV

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
4300	822	330	.27	418	.50	488	.75	553	1.03												
4900	937	352	.33	432	.57	503	.85	562	1.14	619	1.46	1708	.27								
5500	1052	376	.41	448	.65	518	.96	576	1.27	629	1.60	680	1.96								
6100	1167	400	.49	467	.76	532	1.07	592	1.41	643	1.76	691	2.13	737	2.52	782	2.92				
6700	1281	426	.59	489	.89	548	1.20	606	1.55	659	1.94	705	2.33	749	2.73	791	3.15	833	3.59		
7300	1396	453	.71	512	1.03	567	1.35	620	1.70	673	2.11	721	2.54	763	2.96	803	3.39	843	3.85	881	4.30
7900	1511	480	.84	536	1.19	588	1.53	637	1.89	687	2.30	735	2.74	779	3.2	818	3.65	856	4.12	892	4.60
8500	1626	508	.99	561	1.36	610	1.73	657	2.11	703	2.51	749	2.96	793	3.44	834	3.94	871	4.43	906	4.92
9100	1741	536	1.15	586	1.55	634	1.96	678	2.35	721	2.76	764	3.20	807	3.69	848	4.21	886	4.73	922	5.27
9700	1855	565	1.34	612	1.76	658	2.20	701	2.63	741	3.04	781	3.48	822	3.97	862	4.50	901	5.06	937	5.61
10300	1970	594	1.55	639	1.99	683	2.46	724	2.91	763	3.36	801	3.81	838	4.28	877	4.82	915	5.38	951	5.96
10900	2085	623	1.78	666	2.25	708	2.73	748	3.22	785	3.69	821	4.16	857	4.65	893	5.17	929	5.72	965	6.32
11500	2200	654	2.05	694	2.53	733	3.02	772	3.55	809	4.06	844	4.56	878	5.06	911	5.57	945	6.11	980	6.72
12100	2315	683	2.33	722	2.84	760	3.36	797	3.90	832	4.44	866	4.96	899	5.49	931	6.01	963	6.56	996	7.16
12700	2429	714	2.65	750	3.17	786	3.71	822	4.27	857	4.85	890	5.42	922	5.97	953	6.52	983	7.06		
13300	2544	744	2.99	779	3.53	814	4.10	848	4.68	881	5.27	914	5.88	945	6.46	975	7.04	1004	7.60		
13900	2659	774	3.36	807	3.91	841	4.51	874	5.11	907	5.75	938	6.36	968	6.97	998	7.59				
14500	2774	805	3.77	837	4.35	869	4.95	901	5.59	932	6.22	963	6.89	992	7.52						
15100	2889	836	4.21	866	4.80	897	5.43	928	6.09	958	6.75	988	7.43								
15700	3003	867	4.69	896	5.30	925	5.93	955	6.61	984	7.29										
16300	3118	898	5.20	926	5.83	954	6.49	983	7.19												
16900	3233	928	5.72	956	6.39	983	7.07														
17500	3348	959	6.30	986	7.00																

300 CPS / CPA

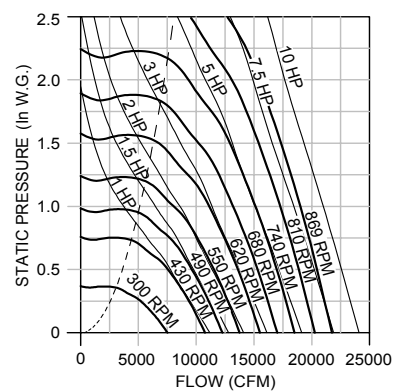
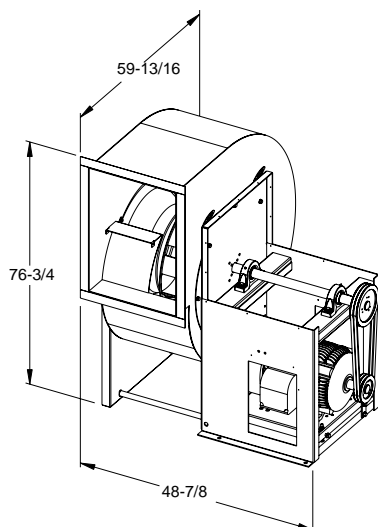
CFM	OV	1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP		5.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	956	551	1.07																				
5750	1100	574	1.24	621	1.54																		
6500	1243	602	1.44	644	1.75	685	2.08	727	2.44														
7250	1387	633	1.68	672	2.01	710	2.36	747	2.72	784	3.10												
8000	1530	667	1.97	704	2.32	739	2.67	774	3.06	807	3.44	874	4.28										
8750	1674	701	2.28	736	2.64	770	3.03	803	3.43	834	3.83	896	4.69	957	5.62								
9500	1817	736	2.63	771	3.03	803	3.44	834	3.85	864	4.28	922	5.16	979	6.12	1035	7.12						
10250	1961	771	3.02	805	3.45	837	3.88	867	4.32	896	4.77	951	5.70	1004	6.66	1057	7.70	1109	8.77	1162	9.93		
11000	2104	805	3.44	840	3.91	872	4.38	901	4.85	929	5.32	982	6.28	1033	7.29	1082	8.33	1131	9.43	1180	10.60	1229	11.80
11750	2248	839	3.89	875	4.41	907	4.92	935	5.41	962	5.90	1014	6.92	1063	7.97	1110	9.04	1157	10.2	1203	11.40	1248	12.60
12500	2391	873	4.38	909	4.95	941	5.49	970	6.02	997	6.55	1047	7.61	1095	8.72	1140	9.82	1185	11.00	1228	12.20		
13250	2535	908	4.92	943	5.52	976	6.12	1005	6.69	1032	7.26	1081	8.37	1127	9.50	1171	10.70	1214	11.90				
14000	2678	944	5.51	978	6.16	1010	6.79	1040	7.41	1067	8.01	1116	9.19	1161	10.40	1204	11.60	1245	12.80				
14750	2822	981	6.16	1013	6.83	1044	7.49	1074	8.16	1102	8.82	1151	10.1	1195	11.30	1237	12.60						
15500	2965	1019	6.87	1048	7.55	1078	8.24	1108	8.96	1136	9.65	1186	11.00	1230									
16250	3109	1058	7.64	1085	8.34	1114	9.08	1142	9.81	1170	10.50	1221	12.00										
17000	3252	1098	8.49	1123	9.21	1149	9.94	1177	10.70	1204	11.50												
17750	3396	1138	9.40	1161	10.10	1186	10.90	1212	11.70	1238	12.50												
18500	3539	1179	10.4	1201	11.20	1224	11.90	1248	12.70														

300 CPS-A / CPA-A

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
4250	813	550	.90																				
5000	956	563	1.03	618	1.30																		
5750	1100	581	1.19	633	1.48	682	1.79	729	2.11														
6500	1243	607	1.40	652	1.69	698	2.01	742	2.34	785	2.70												
7250	1387	638	1.63	678	1.95	718	2.27	759	2.62	800	2.99	877	3.76										
8000	1530	670	1.90	709	2.24	745	2.58	781	2.94	818	3.32	892	4.12	962	4.98	1029	5.90						
8750	1674	699	2.19	741	2.56	776	2.93	809	3.31	842	3.70	909	4.52	977	5.41	1041	6.35	1103	7.34				
9500	1817	722	2.48	771	2.92	808	3.32	841	3.73	871	4.14	931	4.97	994	5.89	1056	6.85	1116	7.87	1173	8.92	1229	10.00
10250	1961	746	2.78	796	3.28	839	3.75	873	4.19	903	4.62	958	5.49	1015	6.42	1073	7.40	1131	8.45	1187	9.53	1241	10.70
11000	2104	776	3.15	818	3.64	865	4.18	904	4.68	935	5.15	989	6.07	1041	7.03	1094	8.03	1148	9.08	1202	10.20	1255	11.30
11750	2248	809	3.55	844	4.05	887	4.60	930	5.17	966	5.71	1022	6.71	1071	7.69	1120	8.73	1169	9.79	1220	10.90	1271	12.10
12500	2391	845	4.02	876	4.53	912	5.08	953	5.68	992	6.27	1054	7.38	1103	8.43	1149	9.49	1195	10.60	1242	11.80		
13250	2535	881	4.52	909	5.04	941	5.61	976	6.21	1015	6.85	1084	8.08	1135	9.20	1181	10.30	1224	11.50	1267	12.60		
14000	2678	918	5.07	945	5.62	973	6.19	1003	6.79	1038	7.45	1110	8.79	1167	10.00	1213	11.20	1255	12.40				
14750	2822	957	5.69	982	6.26	1008	6.85	1034	7.45	1064	8.10	1133	9.51	1196	10.90	1245	12.20						
15500	2965	995	6.34	1019	6.94	1043	7.54	1068	8.17	1095	8.84	1156	10.30	1221	11.70	1276	13.20						
16250	3109	1035	7.09	1058	7.71	1081	8.34	1104	8.98	1128	9.64	1181	11.00	1244	12.60								
17000	3252	1074	7.87	1096	8.51	1118	9.16	1139	9.80	1162	10.50	1210	11.90	1267	13.50								
17750	3396	1113	8.70	1135	9.38	1156	10.10	1177	10.70	1198	11.40	1242	12.90										
18500	3539	1153	9.61	1174	10.30	1194	11.00	1214	11.70	1234	12.40	1276	13.90										
19250	3683	1192	10.60	1213	11.30	1233	12.00	1253	12.80	1272	13.50												
20000	3826	1232	11.60	1253	12.40	1272	13.20																

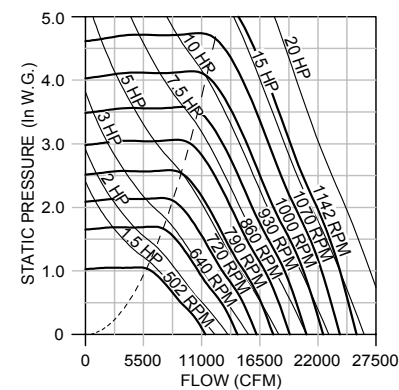
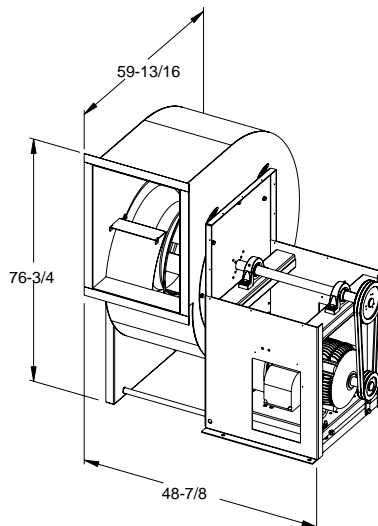
330 CPV

Wheel Diameter - 33"
Wheel Type - Flatblade
Tip Speed (FPM) = $8.64 \times \text{RPM}$
Max. BHP = $12.4 \times (\text{RPM}/1000)^3$
Inlet Area - 6.49 Sq. Ft.
Outlet Area - 6.33 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/6.33$
Max. Motor Frame - 256T, Arr. 10
Approx. Ship Wt. - 854 lbs.



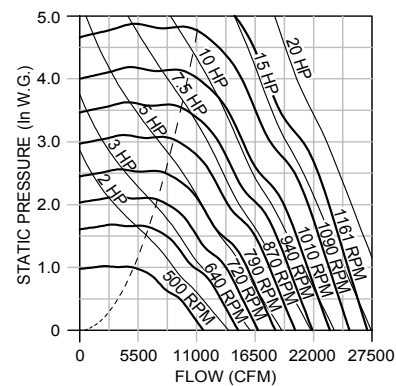
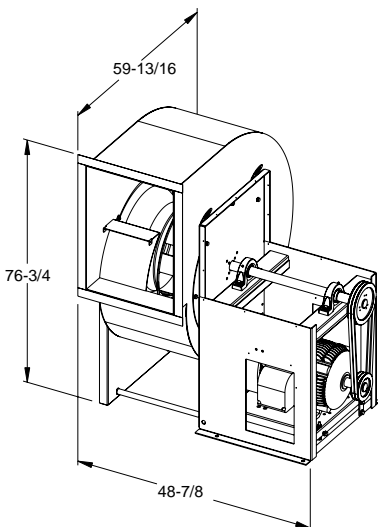
330 CPS / CPA

Wheel Diameter - 33"
Wheel Type - Flatblade
Tip Speed (FPM) = $8.64 \times \text{RPM}$
Max. BHP = $10.6 \times (\text{RPM}/1000)^3$
Inlet Area - 6.49 Sq. Ft.
Outlet Area - 6.33 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/6.33$
Max. Mtr. Frame Size - 256T, Arr. 10
Approx. Ship Wt.
 330 CPS - 1035 lbs.
 330 CPA - 609 lbs.



330 CPS-A / CPA-A

Wheel Diameter - 33"
Wheel Type - Airfoil
Tip Speed (FPM) = $8.64 \times \text{RPM}$
Max. BHP = $10.8 \times (\text{RPM}/1000)^3$
Inlet Area - 6.49 Sq. Ft.
Outlet Area - 6.33 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/6.33$
Max. Mtr. Frame Size - 256T, Arr. 10
Approx. Ship Wt.
 330 CPS-A - 1056 lbs.
 330 CPA-A - 670 lbs.



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).

330 CPV

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
5200	820	300	.32	380	.60	444	.91	503	1.25												
5900	931	319	.40	392	.68	456	1.02	511	1.38	563	1.76	1708	.27								
6600	1041	340	.49	406	.78	470	1.15	523	1.53	571	1.93	618	2.36								
7300	1152	362	.59	423	.91	482	1.27	536	1.69	583	2.11	627	2.56	669	3.02						
8000	1262	384	.70	442	1.05	496	1.42	549	1.85	597	2.32	639	2.78	679	3.27	718	3.77	756	4.29		
8700	1373	407	.83	462	1.22	512	1.60	561	2.02	610	2.52	652	3.01	691	3.52	728	4.05	764	4.59	800	5.16
9400	1483	431	.98	483	1.40	530	1.80	576	2.24	622	2.73	665	3.26	705	3.81	741	4.36	775	4.91	809	5.49
10100	1594	455	1.15	504	1.59	550	2.04	592	2.48	635	2.97	678	3.52	718	4.10	754	4.67	788	5.26	821	5.86
10800	1704	480	1.34	526	1.80	570	2.29	611	2.76	650	3.24	690	3.78	730	4.38	767	4.99	802	5.63	834	6.25
11500	1815	505	1.55	549	2.05	591	2.56	630	3.06	667	3.56	705	4.10	742	4.68	780	5.34	815	6.00	847	6.64
12200	1925	530	1.78	572	2.30	612	2.85	650	3.39	686	3.92	721	4.46	757	5.05	792	5.68	827	6.36	860	7.06
12900	2036	556	2.05	596	2.6	634	3.16	671	3.74	706	4.31	739	4.86	772	5.44	806	6.08	839	6.75		
13600	2147	582	2.34	620	2.91	657	3.51	692	4.12	726	4.72	758	5.30	790	5.91	821	6.52	853	7.20		
14300	2257	609	2.66	644	3.25	679	3.87	714	4.52	747	5.16	778	5.78	808	6.39	838	7.02	868	7.69		
15000	2368	635	3.01	669	3.63	703	4.28	736	4.95	768	5.62	798	6.27	827	6.91	856	7.57				
15700	2478	662	3.40	694	4.03	726	4.70	758	5.39	789	6.10	819	6.81	847	7.48						
16400	2589	688	3.80	719	4.47	750	5.16	781	5.89	811	6.62	840	7.36	868	8.08						
17100	2699	715	4.26	745	4.95	774	5.65	804	6.40	833	7.17	861	7.93								
17800	2810	742	4.75	770	5.44	799	6.19	827	6.95	856	7.76										
18500	2920	769	5.27	796	5.99	824	6.77	851	7.55												
19200	3031	796	5.84	822	6.58	849	7.38														
19900	3141	823	6.44	849	7.23																

330 CPS / CPA

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
6100	962	502	1.31																				
7050	1112	524	1.52	566	1.89																		
8000	1262	551	1.79	589	2.17	626	2.57	663	3.00														
8950	1412	582	2.11	617	2.51	651	2.93	684	3.37	717	3.84												
9900	1562	613	2.46	647	2.90	679	3.34	709	3.79	740	4.28	799	5.30										
10850	1712	646	2.87	678	3.33	709	3.81	738	4.29	766	4.79	821	5.84	875	6.96								
11800	1862	680	3.34	711	3.83	740	4.33	768	4.84	795	5.37	847	6.46	897	7.61	947	8.83	997	10.10				
12750	2012	713	3.85	744	4.38	773	4.92	800	5.47	825	6.00	875	7.15	923	8.35	969	9.59	1015	10.90	1062	12.30		
13700	2162	745	4.39	778	5.00	806	5.57	832	6.14	857	6.72	905	7.93	950	9.15	995	10.50	1038	11.80	1081	13.20	1124	14.70
14650	2312	778	5.00	810	5.64	839	6.27	865	6.89	890	7.52	936	8.77	980	10.10	1022	11.40	1064	12.80	1104	14.20		
15600	2462	810	5.63	843	6.36	872	7.04	899	7.72	923	8.37	968	9.69	1010	11.00	1051	12.40	1091	13.80	1130	15.30		
16550	2612	844	6.35	875	7.11	905	7.86	932	8.59	956	9.28	1001	10.70	1042	12.10	1082	13.50	1120	15.00				
17500	2762	879	7.15	908	7.93	937	8.73	965	9.53	989	10.30	1034	11.80	1075	13.30	1113	14.70						
18450	2912	915	8.02	942	8.84	970	9.68	997	10.50	1022	11.30	1067	12.90	1108	14.50								
19400	3062	951	8.96	977	9.82	1003	10.70	1029	11.60	1055	12.50	1101	14.20	1141	15.80								
20350	3212	989	10.00	1012	10.90	1037	11.80	1062	12.70	1087	13.60	1134	15.50										
21300	3362	1027	11.10	1049	12.00	1072	13.00	1096	13.90	1120	14.90												
22250	3512	1066	12.40	1086	13.30	1107	14.20	1130	15.20														

330 CPS-A / CPA-A

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
5150	813	500	1.09																				
6100	962	512	1.25	563	1.59																		
7050	1112	530	1.47	577	1.82	621	2.18	664	2.59														
8000	1262	556	1.73	596	2.09	636	2.47	677	2.89	715	3.31												
8950	1412	586	2.04	621	2.41	657	2.82	693	3.23	730	3.69	800	4.64	866	5.66								
9900	1562	616	2.38	652	2.8	684	3.22	716	3.66	748	4.11	814	5.09	878	6.15	938	7.27						
10850	1712	642	2.75	682	3.22	714	3.68	743	4.14	772	4.61	832	5.62	892	6.70	950	7.84	1006	9.06				
11800	1862	663	3.11	709	3.67	745	4.20	774	4.69	801	5.19	854	6.21	910	7.34	965	8.51	1019	9.75	1070	11.00	1120	12.40
12750	2012	688	3.53	731	4.13	772	4.73	804	5.28	832	5.83	882	6.91	931	8.03	983	9.25	1034	10.50	1084	11.80	1133	13.20
13700	2162	718	4.01	754	4.62	795	5.27	832	5.91	862	6.51	912	7.67	958	8.84	1004	10.10	1052	11.40	1100	12.70	1147	14.10
14650	2312	751	4.56	781	5.16	817	5.84	856	6.56	890	7.23	943	8.50	987	9.71	1030	11.00	1074	12.30	1118	13.70		
15600	2462	785	5.17	812	5.79	842	6.47	877	7.20	913	7.95	973	9.38	1018	10.70	1060	12.00	1100	13.40	1140	14.70		
16550	2612	821	5.86	846	6.51	871	7.17	901	7.91	935	8.71	999	10.30	1049	11.70	1090	13.10	1129	14.50				
17500	2762	857	6.60	880	7.27	904	7.98	929	8.69	958	9.49	1022	11.20	1078	12.80	1121	14.30	1159	15.70				
18450	2912	893	7.41	915	8.11	938	8.86	961	9.60	986	10.40	1044	12.10	1103	13.90	1151	15.50						
19400	3062	930	8.30	951	9.03	972	9.79	994	10.60	1016	11.40	1066	13.10	1125	14.90								
20350	3212	967	9.26	988	10.10	1008	10.80	1028	11.60	1048	12.40	1093	14.20	1146	16.10								
21300	3362	1005	10.30	1025	11.10	1044	11.90	1063	12.80	1083	13.60	1123	15.40										
22250	3512	1043	11.50	1062	12.30	1081	13.20	1099	14.00	1117	14.90	1155	16.70										
23200	3662	1080	12.70	1099	13.60	1117	14.40	1135	15.30	1153	16.20												
24150	3812	1118	14.00	1137	14.90	1155	15.90																

365 CPV

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
6300	814	270	.39	343	.73	401	1.11	454	1.51												
7200	931	288	.49	355	.84	413	1.25	462	1.68	509	2.15	1708	.27								
8100	1047	308	.60	368	.96	425	1.40	473	1.87	517	2.37	559	2.89								
9000	1164	329	.73	384	1.12	437	1.57	486	2.08	528	2.60	568	3.15	606	3.72	643	4.32				
9900	1280	350	.88	402	1.31	450	1.76	498	2.29	541	2.86	580	3.45	615	4.03	650	4.64	685	5.31		
10800	1396	372	1.05	421	1.53	466	2.00	510	2.52	553	3.12	592	3.74	627	4.37	661	5.03	693	5.69	725	6.38
11700	1513	394	1.24	441	1.76	484	2.28	524	2.80	565	3.40	604	4.05	640	4.73	673	5.42	704	6.11	734	6.82
12600	1629	418	1.47	462	2.02	502	2.57	540	3.12	578	3.72	616	4.39	652	5.10	686	5.84	717	6.58	746	7.31
13500	1746	441	1.71	483	2.31	522	2.91	558	3.49	593	4.09	628	4.74	664	5.48	698	6.26	729	7.02	758	7.80
14400	1862	465	1.99	504	2.61	542	3.27	577	3.90	610	4.52	643	5.18	676	5.89	709	6.67	741	7.50	771	8.33
15300	1979	490	2.32	527	2.98	562	3.64	596	4.33	628	4.99	659	5.66	690	6.37	722	7.17	753	8.00	783	8.86
16200	2095	514	2.67	549	3.35	583	4.06	616	4.80	647	5.51	677	6.21	706	6.93	735	7.68	765	8.52	794	9.39
17100	2211	539	3.06	572	3.77	605	4.53	636	5.28	666	6.04	695	6.79	723	7.53	751	8.31	779	9.13		
18000	2328	564	3.49	596	4.25	627	5.03	657	5.82	686	6.62	714	7.41	741	8.19	768	9.00	794	9.80		
18900	2444	589	3.96	619	4.74	649	5.55	678	6.39	707	7.26	734	8.09	760	8.91	785	9.71				
19800	2561	615	4.50	643	5.29	672	6.14	700	7.01	727	7.89	754	8.79	779	9.65	804	10.50				
20700	2677	640	5.05	667	5.88	695	6.77	722	7.67	748	8.58	774	9.52	799	10.40						
21600	2793	665	5.65	692	6.54	718	7.44	744	8.37	769	9.31	794	10.30								
22500	2910	691	6.33	716	7.22	741	8.15	766	9.11	791	10.10										
23400	3026	717	7.06	741	7.97	765	8.93	789	9.92												
24300	3143	743	7.84	766	8.78	789	9.77														
25200	3259	768	8.64	791	9.64																

365 CPS / CPA

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
7700	995	455	1.62																				
8900	1111	471	1.90	512	2.34																		
10100	1306	492	2.23	529	2.70	565	3.19	600	3.70														
11300	1461	514	2.59	550	3.11	583	3.63	616	4.18	648	4.75												
12500	1616	538	3.00	572	3.56	604	4.13	635	4.72	665	5.32	723	6.57										
13700	1772	564	3.48	596	4.07	627	4.69	657	5.33	685	5.96	739	7.26	792	8.63								
14900	1927	591	4.00	621	4.64	651	5.31	679	5.96	706	6.64	758	8.03	808	9.46	857	11.00						
16100	2082	620	4.59	648	5.28	676	5.98	703	6.68	730	7.42	780	8.90	827	10.40	873	11.90	918	13.50	962	15.20		
17300	2237	651	5.27	676	5.97	702	6.71	728	7.47	753	8.22	802	9.79	848	11.40	892	13.00	935	14.70	976	16.40	1018	18.20
18500	2392	682	6.01	706	6.76	730	7.53	754	8.31	778	9.11	825	10.80	870	12.40	913	14.20	954	15.90	994	17.70		
19700	2548	715	6.86	737	7.63	759	8.43	782	9.26	804	10.10	850	11.80	893	13.60	934	15.40	974	17.20	1013	19.10		
20900	2703	748	7.79	769	8.60	789	9.40	811	10.30	832	11.20	875	13.00	917	14.80	957	16.70	996	18.60				
22100	2858	781	8.79	801	9.64	821	10.50	841	11.40	861	12.30	901	14.20	941	16.10	981	18.10	1019	20.10				
23300	3013	815	9.90	834	10.80	853	11.70	872	12.60	890	13.60	929	15.50	967	17.50	1005	19.60						
24500	3169	850	11.20	868	12.10	885	13.00	903	13.90	921	14.90	957	16.90	994	19.00								
25700	3324	885	12.50	902	13.50	919	14.40	936	15.40	953	16.40	987	18.50	1021	20.60								
26900	3479	920	14.00	936	14.90	952	15.90	969	17.00	985	18.00	1017	20.10										
28100	3634	955	15.50	971	16.60	986	17.60	1002	18.70	1017	19.70												
29300	3789	991	17.20	1005	18.30	1020	19.30																

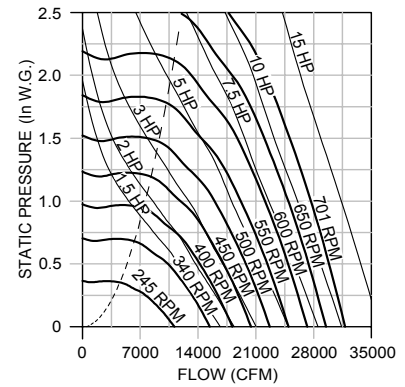
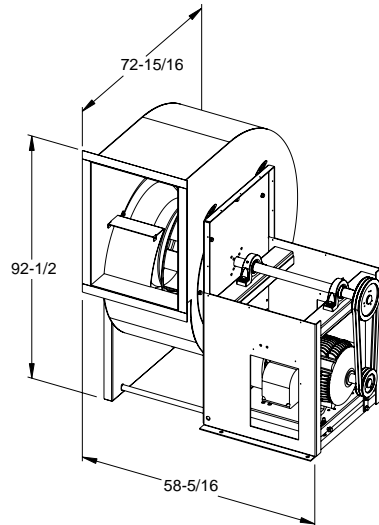
365 CPS-A / CPA-A

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
5300	685	455	1.19																				
6500	840	466	1.37	514	1.77	558	2.19																
7700	995	474	1.57	524	2.00	568	2.45	608	2.93	645	3.41												
8900	1151	488	1.81	532	2.26	577	2.75	619	3.26	656	3.78	724	4.89										
10100	1306	509	2.10	548	2.57	586	3.07	626	3.61	665	4.17	735	5.35	796	6.58	853	7.87						
11300	1461	531	2.47	570	2.95	604	3.46	638	4.01	673	4.59	744	5.85	807	7.14	863	8.49	916	9.91	966	11.40		
12500	1616	552	2.87	591	3.39	626	3.92	658	4.49	689	5.09	752	6.37	815	7.72	874	9.16	927	10.60	976	12.20	1023	13.80
13700	1772	577	3.35	612	3.89	647	4.45	680	5.04	710	5.66	766	6.96	824	8.38	882	9.87	937	11.40	987	13.00	1034	14.70
14900	1927	604	3.86	636	4.47	669	5.07	701	5.67	731	6.29	786	7.65	837	9.07	890	10.60	944	12.20	996	13.90	1044	15.60
16100	2082	634	4.46	663	5.10	692	5.73	722	6.38	752	7.03	808	8.43	857	9.89	904	11.40	954	13.10	1003	14.80	1052	16.60
17300	2237	665	5.12	691	5.78	718	6.47	746	7.18	774	7.87	829	9.29	879	10.80	924	12.40	968	14.00	1013	15.80	1060	17.60
18500	2392	696	5.82	721	6.55	746	7.28	771	8.01	797	8.75	850	10.30	900	11.80	946	13.40	988	15.10	1029	16.90		
19700	2548	728	6.61	752	7.38	776	8.17	799	8.94	823	9.74	872	11.30	921	12.90	967	14.60	1009	16.30	1049	18.10		
20900	2703	761	7.48	784	8.31	807	9.15	829	9.98	851	10.80	896	12.50	942	14.10	988	15.80	1031	17.60				
22100	2858	794	8.42	816	9.30	838	10.20	859	11.10	880	11.90	922	13.70	965	15.40	1009	17.20	1052	19.00				
23300	3013	828	9.48	849	10.40	869	11.30	890	12.20	910	13.20	950	15.00	989	16.80	1031	18.70						
24500	3169	862	10.60	881	11.50	902	12.50	921	13.50	941	14.50	979	16.40	1016	18.30	1055	20.30						
25700	3324	896	11.80	915	12.80	934	13.80	953	14.80	972	15.90	1009	18.00	1044	19.90								
26900	3479	932	13.20	950	14.20	967	15.20	986	16.30	1004	17.40	1039	19.50										
28100	3634	967	14.70	984	15.70	1001	16.80	1019	17.90	1036	19.00												
29300	3789	1003	16.30	1019	17.40	1035	18.40	1052	19.60														

402 CPV/CPS/CPA/CPS-A/CPA-A Data

402 CPV

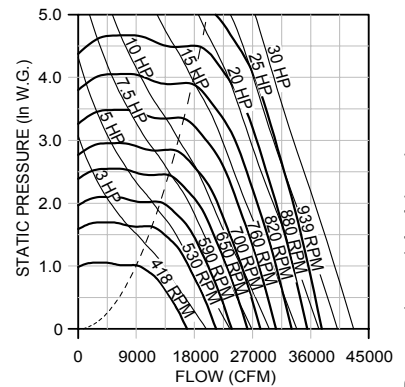
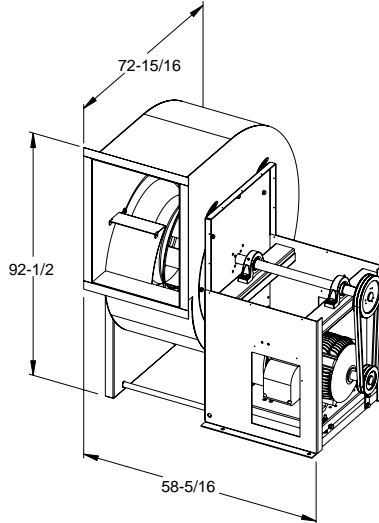
Wheel Diameter - 40.25"
Wheel Type - Flatblade
Tip Speed (FPM) = $10.54 \times \text{RPM}$
Max. BHP = $33.5 \times (\text{RPM}/1000)^3$
Inlet Area - 9.72 Sq. Ft.
Outlet Area - 9.41 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/9.41$
Max. Motor Frame - 324T, Arr. 10
Approx. Ship Wt. - 1220 lbs.



Do not select to left of dotted curve.

402 CPS / CPA

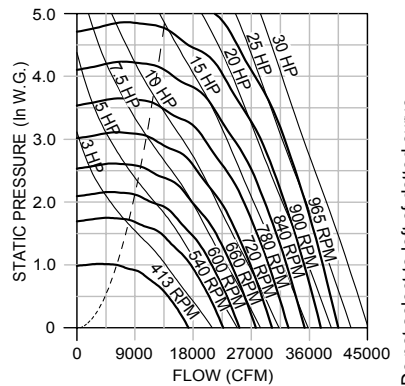
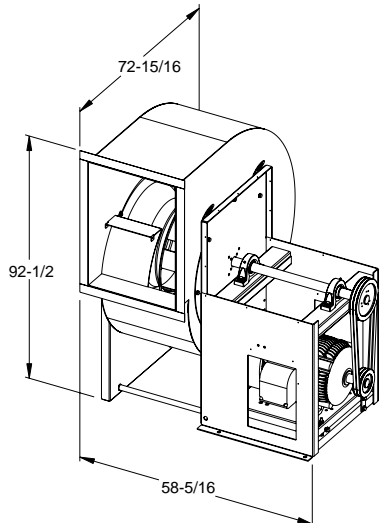
Wheel Diameter - 40.25"
Wheel Type - Flatblade
Tip Speed (FPM) = $10.54 \times \text{RPM}$
Max. BHP = $31.3 \times (\text{RPM}/1000)^3$
Inlet Area - 9.72 Sq. Ft.
Outlet Area - 9.41 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/9.41$
Max. Mtr. Frame Size - 324T, Arr. 10
Approx. Ship Wt.
 402 CPS - 1519 lbs.
 402 CPA - 797 lbs.



Do not select to left of dotted curve.

402 CPS-A / CPA-A

Wheel Diameter - 40.25"
Wheel Type - Airfoil
Tip Speed (FPM) = $10.54 \times \text{RPM}$
Max. BHP = $28.4 \times (\text{RPM}/1000)^3$
Inlet Area - 9.72 Sq. Ft.
Outlet Area - 9.41 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/9.41$
Max. Mtr. Frame Size - 324T, Arr. 10
Approx. Ship Wt.
 402 CPS-A - 1556 lbs.
 402 CPA-A - 898 lbs.



Do not select to left of dotted curve.

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).

402 CPV

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
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	1708	.27								
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														

402 CPS / CPA

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	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	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												

402 CPS-A / CPA-A

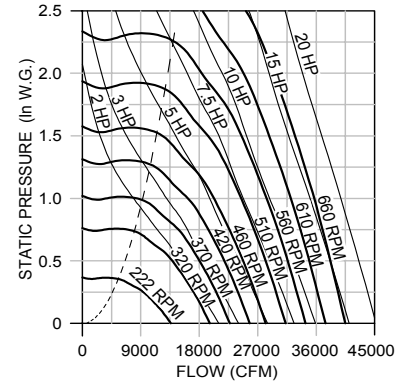
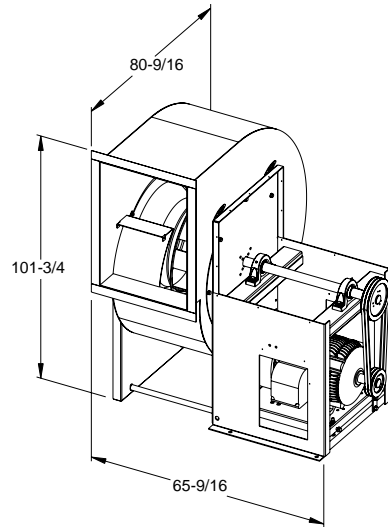
CFM	OV	1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP		5.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6450	685	413	1.44																				
7950	844	423	1.68	466	2.15	506	2.66																
9450	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 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). **Shaded area indicates reinforced wheel required.**

445 CPV/CPS/CPA/CPS-A/CPA-A Data

445 CPV

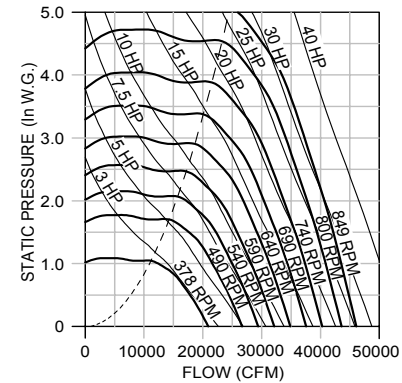
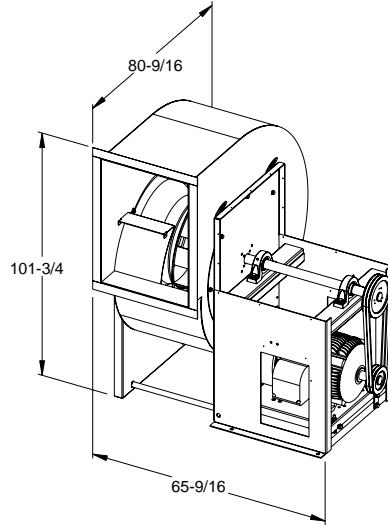
Wheel Diameter - 44.5"
Wheel Type - Flatblade
Tip Speed (FPM) = $11.65 \times \text{RPM}$
Max. BHP = $55.3 \times (\text{RPM}/1000)^3$
Inlet Area - 11.86 Sq. Ft.
Outlet Area - 11.50 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/11.50$
Max. Motor Frame - 326T, Arr. 10
Approx. Ship Wt. - 1486 lbs.



Do not select to left of dotted curve.

445 CPS / CPA

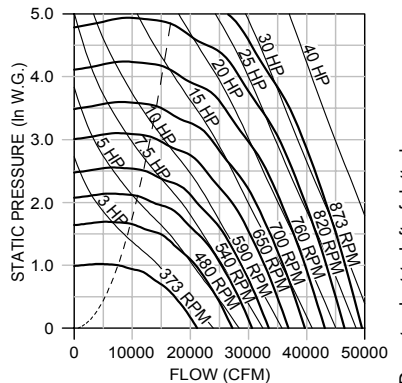
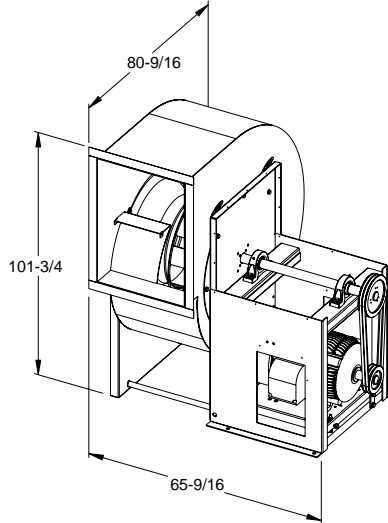
Wheel Diameter - 44.5"
Wheel Type - Flatblade
Tip Speed (FPM) = $11.65 \times \text{RPM}$
Max. BHP = $52.0 \times (\text{RPM}/1000)^3$
Inlet Area - 11.86 Sq. Ft.
Outlet Area - 11.50 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/11.50$
Max. Mtr. Frame Size - 326T, Arr. 10
Approx. Ship Wt.
 445 CPS - 1938 lbs.
 445 CPA - 915 lbs.



Do not select to left of dotted curve.

445 CPS-A / CPA-A

Wheel Diameter - 44.5"
Wheel Type - Airfoil
Tip Speed (FPM) = $11.65 \times \text{RPM}$
Max. BHP = $47.2 \times (\text{RPM}/1000)^3$
Inlet Area - 11.86 Sq. Ft.
Outlet Area - 11.50 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/11.50$
Max. Mtr. Frame Size - 326T, Arr. 10
Approx. Ship Wt.
 445 CPS-A - 1984 lbs.
 445 CPA-A - 1040 lbs.



Do not select to left of dotted curve.

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).

445 CPV

[illegible]

445 CPS / CPA

[illegible]

445 CPS-A / CPA-A

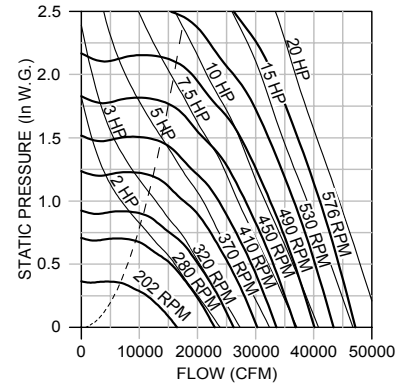
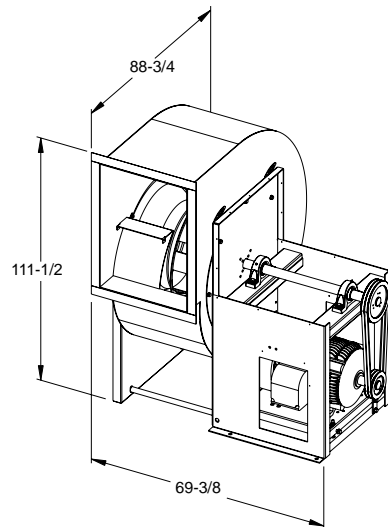
[illegible]

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). **Shaded area indicates reinforced wheel required.**

490 CPV/CPS/CPA/CPS-A/CPA-A Data

490 CPV

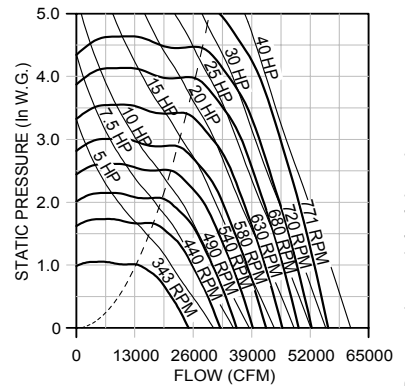
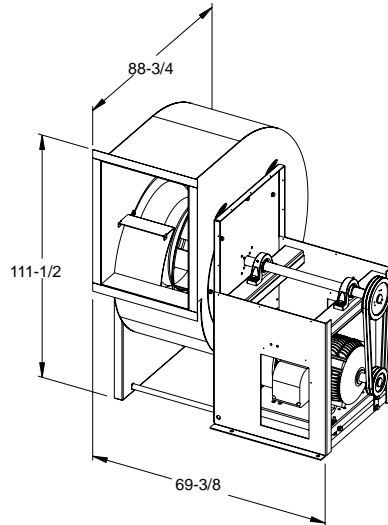
Wheel Diameter - 49"
Wheel Type - Flatblade
Tip Speed (FPM) = $12.83 \times \text{RPM}$
Max. BHP = $89.6 \times (\text{RPM}/1000)^3$
Inlet Area - 14.42 Sq. Ft.
Outlet Area - 13.94 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/13.94$
Max. Motor Frame - 326T, Arr. 10
Approx. Ship Wt. - 1804 lbs.



Do not select to left of dotted curve.

490 CPS / CPA

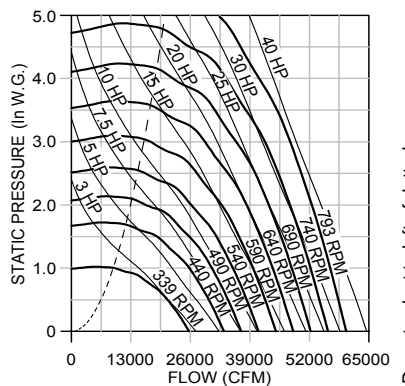
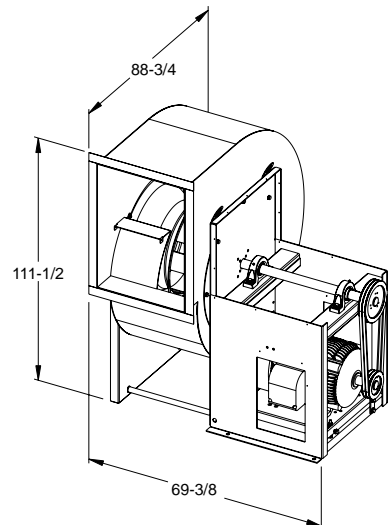
Wheel Diameter - 49"
Wheel Type - Flatblade
Tip Speed (FPM) = $12.83 \times \text{RPM}$
Max. BHP = $84.3 \times (\text{RPM}/1000)^3$
Inlet Area - 14.42 Sq. Ft.
Outlet Area - 13.94 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/13.94$
Max. Mtr. Frame Size - 326T, Arr. 10
Approx. Ship Wt.
 490 CPS - 2319 lbs.
 490 CPA - 1044 lbs.



Do not select to left of dotted curve.

490 CPS-A / CPA-A

Wheel Diameter - 49"
Wheel Type - Airfoil
Tip Speed (FPM) = $12.83 \times \text{RPM}$
Max. BHP = $76.4 \times (\text{RPM}/1000)^3$
Inlet Area - 14.42 Sq. Ft.
Outlet Area - 13.94 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/13.94$
Max. Mtr. Frame Size - 326T, Arr. 10
Approx. Ship Wt.
 490 CPS-A - 2375 lbs.
 490 CPA-A - 1191 lbs.



Do not select to left of dotted curve.

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).

490 CPV

[illegible]

490 CPS / CPA

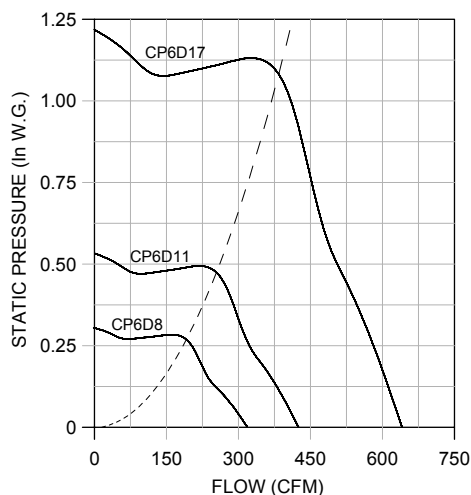
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490 CPS-A / CPA-A

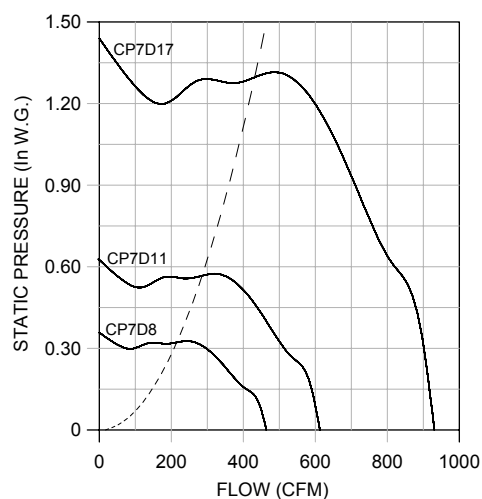
CFM	OV	1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP		5.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9550	685	339	2.14																				
11750	842	347	2.47	383	3.19	415	3.93																
13950	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												
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	
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 transmission losses. Performance ratings do not include the effects of appurtenances (accessories). **Shaded area indicates reinforced wheel required.**

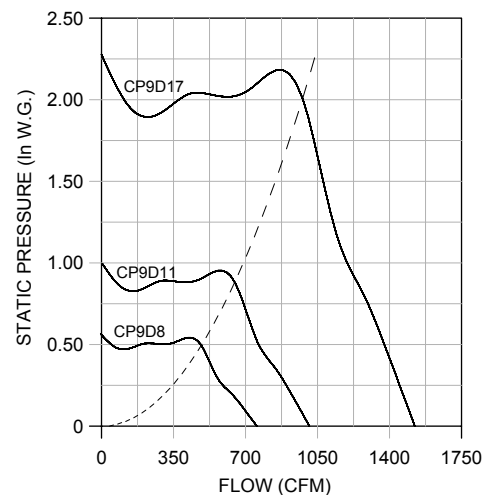
CP6D8, CP6D11, CP6D17



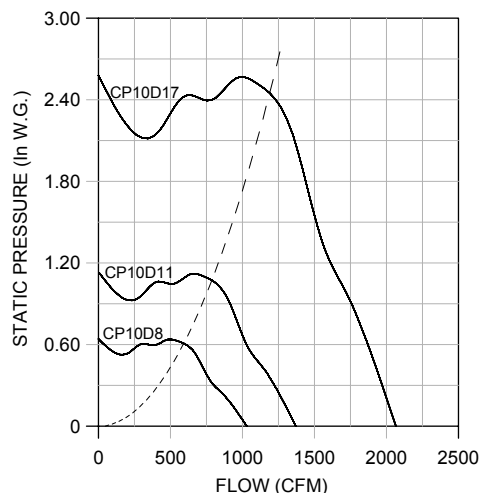
CP7D8, CP7D11, CP7D17



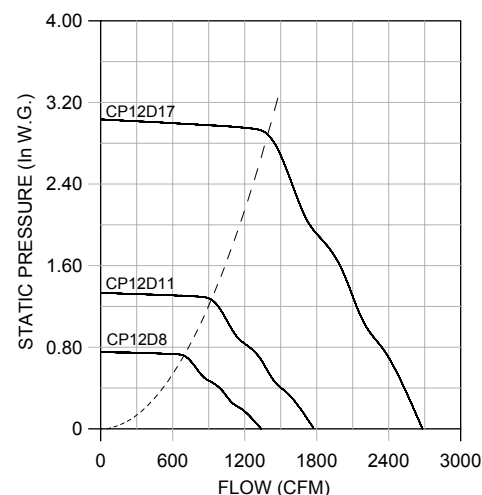
CP9D8, CP9D11, CP9D17



CP10D8, CP10D11, CP10D17



CP12D8, CP12D11, CP12D17



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).

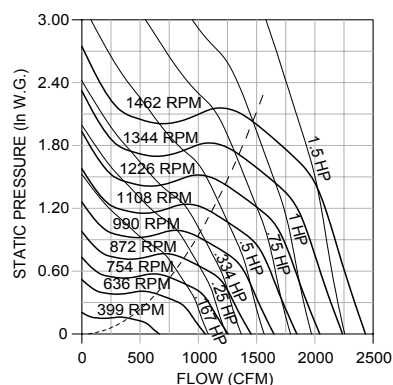
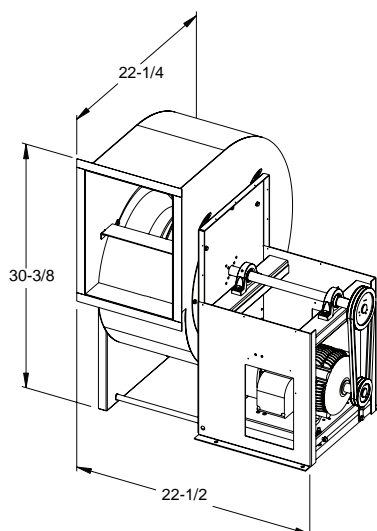
CPFD

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

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).

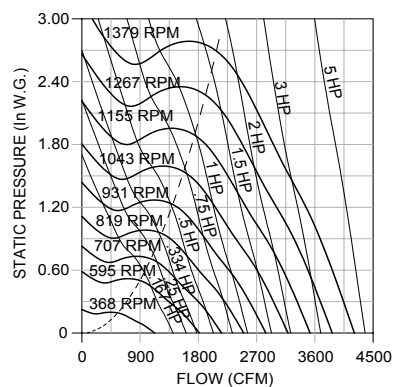
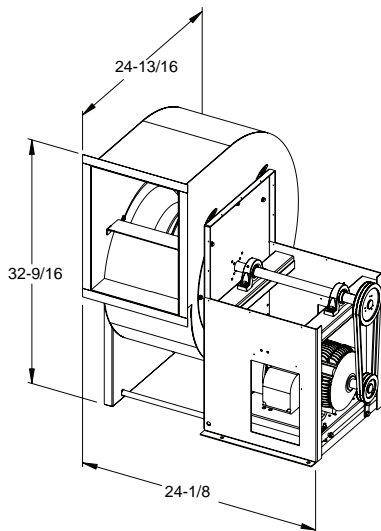
100 CPFB

Wheel Diameter - 10"
Wheel Type - Forward Curved
Tip Speed (FPM) = $2.62 \times \text{RPM}$
Inlet Area - .75 Sq. Ft.
Outlet Area - .57 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/.57$
Max. Motor Frame Size - 145T, Arr. 10
Approx. Shipping Weight - 165 lbs.



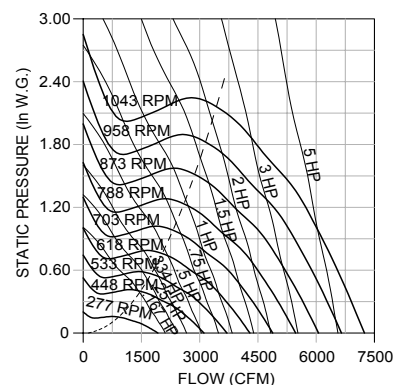
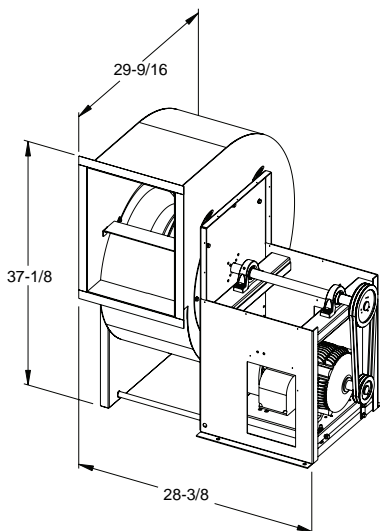
120 CPFB

Wheel Diameter - 12"
Wheel Type - Forward Curved
Tip Speed (FPM) = $3.21 \times \text{RPM}$
Inlet Area - .98 Sq. Ft.
Outlet Area - .84 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/.84$
Max. Motor Frame - 184T, Arr. 10
Approx. Ship Wt. - 204 lbs.



150 CPFB

Wheel Diameter - 15"
Wheel Type - Forward Curved
Tip Speed (FPM) = $3.93 \times \text{RPM}$
Inlet Area - 1.25 Sq. Ft.
Outlet Area - 1.31 Sq. Ft.
Outlet Velocity (FPM) = $\text{CFM}/1.31$
Max. Motor Frame - 184T, Arr. 10
Approx. Ship Wt. - 273 lbs.



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).

100 CPFB

CFM	OV	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	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
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		
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		

120 CPFB

CFM	OV	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	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
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		

150 CPFB

CFM	OV	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	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
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
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

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).

180 CPFB

Wheel Diameter - 18"

Wheel Type - Forward Curved

Tip Speed (FPM) = $4.71 \times \text{RPM}$

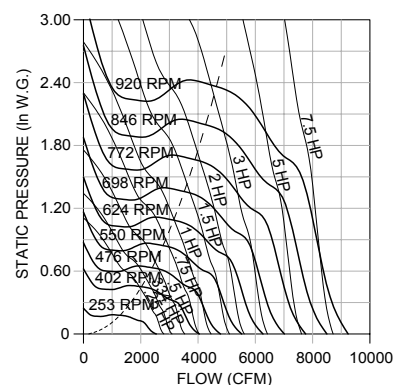
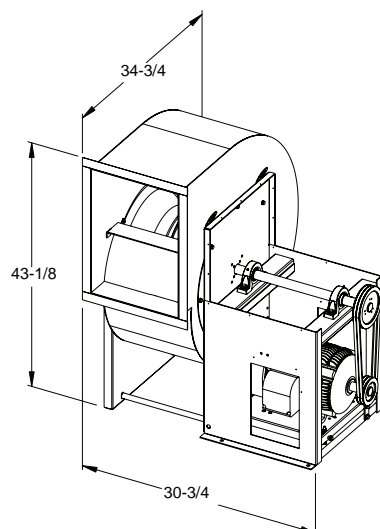
Inlet Area - 2.10 Sq. Ft.

Outlet Area - 1.88 Sq. Ft.

Outlet Velocity (FPM) = $\text{CFM}/1.88$

Max. Motor Frame - 215T, Arr. 10

Approx. Ship Wt. - 353 lbs.



220 CPFB

Wheel Diameter - 22"

Wheel Type - Forward Curved

Tip Speed (FPM) = $5.76 \times \text{RPM}$

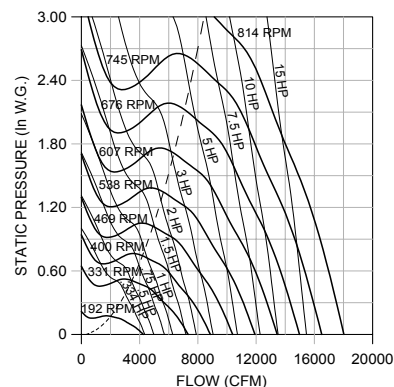
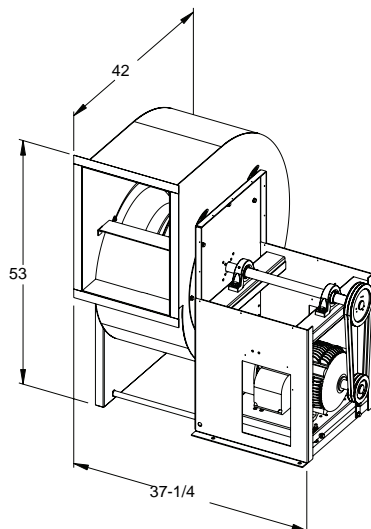
Inlet Area - 3.04 Sq. Ft.

Outlet Area - 2.94 Sq. Ft.

Outlet Velocity (FPM) = $\text{CFM}/2.94$

Max. Motor Frame - 215T, Arr. 10

Approx. Ship Wt. - 493 lbs.



250 CPFB

Wheel Diameter - 25"

Wheel Type - Forward Curved

Tip Speed (FPM) = $6.54 \times \text{RPM}$

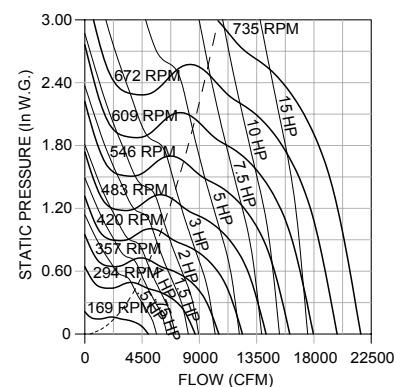
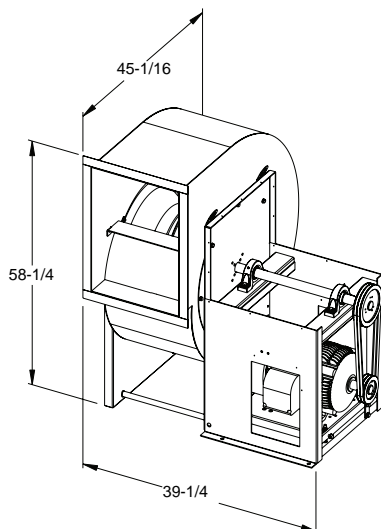
Inlet Area - 3.87 Sq. Ft.

Outlet Area - 3.49 Sq. Ft.

Outlet Velocity (FPM) = $\text{CFM}/3.49$

Max. Motor Frame - 215T, Arr. 10

Approx. Ship Wt. - 563 lbs.



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).

180 CPFB

CFM	OV	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	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
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		
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
4100	2180	447	.89	466	.95	485	1.01	512	1.10	552	1.22	582	1.30	634	1.47	687	1.67
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
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
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
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
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
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
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

220 CPFB

CFM	OV	Static Pressure															
		0.125 SP		0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
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
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
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
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
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
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
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
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
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

250 CPFB

CFM	OV	Static Pressure															
		0.125 SP		0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
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
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
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
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
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
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
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
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
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

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).

270 CPFB

Wheel Diameter - 27.5"

Wheel Type - Forward Curved

Tip Speed (FPM) = 7.20 x RPM

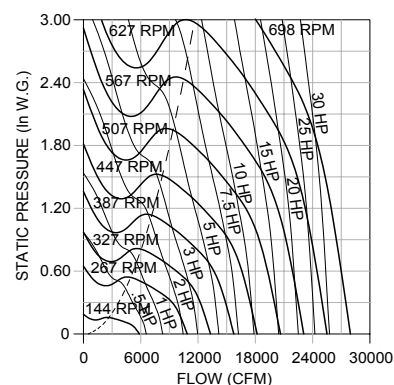
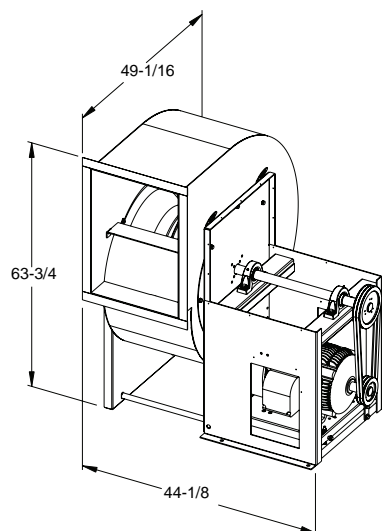
Inlet Area - 4.67 Sq. Ft.

Outlet Area - 4.23 Sq. Ft.

Outlet Velocity (FPM) = CFM/4.23

Max. Motor Frame - 256T, Arr. 10

Approx. Ship Wt. - 653 lbs.



300 CPFB

Wheel Diameter - 30"

Wheel Type - Forward Curved

Tip Speed (FPM) = 7.85 x RPM

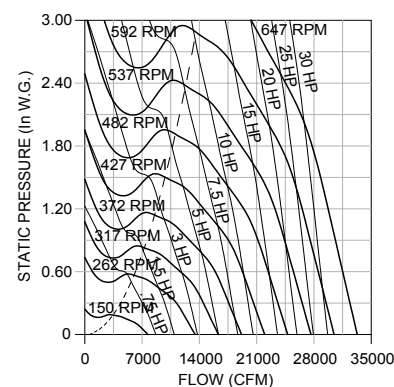
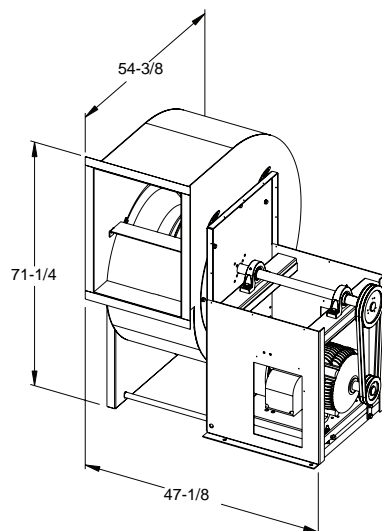
Inlet Area - 5.59 Sq. Ft.

Outlet Area - 5.23 Sq. Ft.

Outlet Velocity (FPM) = CFM/5.23

Max. Motor Frame - 256T, Arr. 10

Approx. Ship Wt. - 772 lbs.



270 CPFB

CFM	OV	Static Pressure																					
		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
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
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		

300 CPFB

CFM	OV	Static Pressure																					
		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
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 transmission losses. Performance ratings do not include the effects of appurtenances (accessories).

60 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wiA}
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
900	0.25	61	56	57	53	47	42	39	36	54
1200	0.25	70	68	64	64	57	51	46	44	64
1500	0.25	76	77	70	73	66	58	52	50	73
	0.50	78	77	69	72	65	57	52	49	72
	0.75	77	76	69	72	64	57	52	49	71
1800	0.25	80	82	77	77	73	65	58	55	78
	0.50	80	82	77	77	72	64	58	54	78
	0.75	81	83	76	76	72	63	57	54	77
	1.00	80	82	76	76	71	63	57	54	77
2100	0.25	83	87	83	81	78	70	63	59	83
	1.00	84	87	83	80	77	69	62	58	82
	1.25	83	87	82	80	77	69	62	58	82
2400	0.25	86	92	89	85	83	75	67	62	87
	1.00	85	91	88	84	83	74	66	61	87
	1.50	86	91	88	83	82	74	66	61	86
	1.75	85	91	88	83	82	73	66	61	86
2700	0.75	86	94	93	87	87	79	70	65	91
	1.25	87	95	93	87	87	78	70	65	91
	1.75	88	95	93	86	86	78	69	64	90
	2.25	87	95	92	86	86	77	69	64	90

60 CPS / CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wiA}
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
1750	1.00	80	81	75	76	70	62	57	53	76
2350	1.00	85	91	87	83	82	73	66	61	86
	1.50	85	91	87	83	81	73	65	61	86
	1.75	85	90	87	83	81	72	65	61	85
2950	1.00	88	96	97	89	91	82	73	67	94
	1.50	89	97	97	89	90	82	73	67	94
	2.00	90	98	97	88	90	81	72	67	94
	2.50	89	98	96	88	90	81	72	67	93
3550	1.00	92	100	102	97	95	89	80	73	100
	1.50	91	100	102	96	95	89	80	72	100
	2.00	92	100	102	96	95	88	79	72	99
	2.50	93	101	102	96	94	88	79	72	99
	3.00	93	101	102	96	94	88	79	72	99
	3.50	92	101	102	96	94	87	78	72	99
	4.00	92	101	102	95	94	87	78	72	99
4150	1.50	94	103	107	103	99	95	85	78	105
	3.50	95	104	107	102	98	94	84	77	104
	4.00	96	104	107	102	98	93	84	77	104
	5.00	95	104	107	102	98	93	84	77	104

70 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wiA}
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
1100	0.25	71	65	62	61	55	48	43	41	61
1300	0.25	77	72	67	67	61	54	48	46	67
	0.50	77	71	66	66	60	54	48	46	66
1500	0.25	83	77	71	72	66	59	52	50	72
	0.50	82	77	70	71	65	58	51	49	71
1700	0.25	85	82	76	76	70	63	56	53	76
	0.75	84	82	75	74	69	62	55	52	75
1900	0.25	87	86	80	79	74	67	60	56	80
	1.00	86	86	79	77	73	66	59	55	79
2100	0.25	88	90	84	81	78	71	63	58	83
	1.25	88	89	83	80	76	69	62	58	82
2300	0.25	90	93	88	84	81	74	66	61	86
	1.00	90	93	87	83	80	73	65	60	85
	1.50	89	93	87	82	79	72	65	60	85
2500	0.50	92	97	91	86	84	76	69	63	89
	1.00	91	96	90	85	83	76	68	62	88
	1.75	91	96	90	85	82	75	68	62	88
2700	1.50	92	99	93	87	85	78	70	64	91
	2.00	92	99	93	87	85	77	70	64	91
	2.25	92	99	93	87	85	77	70	64	90

70 CPS / CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wiA}
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
2150	1.00	88	90	84	81	77	70	63	58	83
	1.50	88	90	84	81	77	70	63	59	83
2650	1.00	93	99	92	87	85	78	70	64	90
	1.50	92	98	92	86	84	77	69	63	90
	2.00	92	98	92	86	84	77	70	64	90
3150	1.00	96	104	99	92	91	84	76	69	96
	1.50	96	104	99	92	91	84	76	68	96
	2.00	95	104	99	92	90	83	75	68	96
	2.50	95	103	99	91	90	83	75	68	96
	3.00	95	103	99	91	90	82	75	68	96
3650	1.00	98	107	105	98	95	89	81	74	101
	1.50	98	107	105	98	95	89	81	73	101
	2.00	98	107	105	98	94	89	81	73	101
	2.50	98	106	104	97	94	88	80	73	101
	3.00	97	106	104	97	94	88	80	73	100
	3.50	97	106	104	97	94	88	80	73	100
	4.00	97	106	104	97	94	87	80	73	100
4150	1.50	100	109	110	103	98	94	86	78	105
	2.00	101	109	110	103	98	93	85	78	105

The sound power level ratings shown are in decibels referred to 10⁻¹² watts calculated per AMCA Standard 301. Values shown are for inlet L_{wiA} sound power levels for Installation Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. AMCA Certified Ratings Seal for sound performance applies only to the CPV.

80 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wiA}
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
900	0.25	61	57	57	53	48	42	40	39	55
	0.25	71	69	66	65	58	51	47	46	65
1200	0.50	70	67	64	63	56	51	47	46	64
	0.25	78	78	73	73	66	59	52	51	73
1500	0.50	77	76	71	72	65	58	52	51	72
	0.75	77	75	70	71	63	58	52	51	71
	0.25	81	84	80	79	73	66	58	56	79
1800	0.50	81	83	79	77	72	65	58	55	78
	0.75	80	82	77	77	71	64	58	55	77
	1.00	80	81	77	76	70	64	58	55	77
	0.25	84	89	86	83	79	71	64	59	85
2100	0.50	84	88	85	82	78	70	63	59	83
	1.00	83	86	83	81	77	69	62	59	82
	1.50	83	86	82	80	75	68	62	59	81
	0.25	86	92	91	87	84	76	68	63	89
2400	0.50	86	92	90	86	83	75	67	62	88
	1.00	86	91	89	85	82	74	67	62	87
	1.50	85	91	88	84	81	73	66	62	86
	2.00	85	90	87	83	80	72	66	62	85
	2.50	87	94	91	86	84	76	70	65	89

80 CPS / CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wiA}
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
1700	1.00	79	79	75	74	68	62	56	54	75
2200	1.00	84	88	85	82	78	71	64	60	84
	1.50	84	88	84	81	77	70	64	60	83
2700	1.00	88	95	94	89	86	78	71	65	91
	2.00	87	94	92	87	85	77	70	65	90
	2.50	87	94	91	86	84	76	70	65	89
3200	1.00	91	100	100	94	92	84	77	69	97
	2.00	90	99	98	93	91	83	76	69	96
	3.00	90	99	97	92	90	82	75	69	95
	3.50	90	99	97	91	90	81	75	69	94
3700	1.00	94	102	105	100	97	90	82	74	102
	2.00	93	102	104	99	95	89	81	74	101
	3.00	93	101	102	97	94	88	80	74	100
	4.00	93	101	102	97	94	87	80	74	99
	4.50	93	101	102	97	93	87	80	74	99
4200	1.50	96	104	108	104	100	94	86	78	106
	2.00	96	104	108	104	99	93	85	78	105
	3.50	95	103	107	102	98	93	85	78	104
	4.00	95	103	106	102	98	92	84	77	104

100 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
1100	0.25	65	68	63	61	58	52	48	41	63
	0.25	69	73	69	68	65	59	54	47	70
1400	0.50	68	73	67	66	63	58	54	47	68
	0.25	73	77	73	72	70	64	60	53	75
1700	0.50	72	76	72	71	69	62	58	51	73
	0.75	71	76	71	70	68	62	58	51	72
2000	0.25	77	81	78	77	75	70	65	58	79
	0.50	77	80	77	76	74	67	63	56	78
	1.00	74	79	75	74	72	66	62	55	76
	1.25	74	80	75	73	71	65	61	55	76
2300	0.25	79	84	83	81	79	75	70	63	84
	0.50	79	84	82	80	78	73	68	61	83
	1.00	78	83	81	79	76	71	66	60	81
	1.50	76	82	80	78	75	70	65	59	80
	1.75	76	83	81	78	74	69	65	59	80
2600	0.50	81	87	86	85	81	77	72	66	87
	1.00	81	87	85	83	80	76	70	64	85
	1.50	79	86	85	82	79	75	69	64	84
	2.00	78	85	85	81	78	74	68	63	83
	2.25	79	86	85	81	77	73	68	63	83

100 CPS / CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
2200	1.00	77	82	79	77	75	69	65	59	80
	1.50	75	82	79	76	73	68	64	58	78
2700	1.00	82	88	87	84	81	77	71	66	86
	1.50	80	87	86	83	80	76	70	65	86
	2.00	79	86	86	83	79	75	70	65	85
	2.50	79	87	87	83	78	74	69	64	84
3200	1.00	85	92	93	89	86	83	77	72	92
	2.00	83	91	92	88	85	82	75	71	91
	3.00	82	90	92	87	83	80	74	70	90
	3.50	82	90	93	87	82	79	74	69	89
3700	1.00	88	96	98	93	91	88	82	78	96
	2.00	87	95	97	91	89	87	80	76	95
	2.50	86	94	97	91	89	86	79	75	95
	3.00	85	93	97	91	88	86	79	75	94
	3.50	85	93	97	90	88	85	79	75	94
	4.00	84	93	97	90	87	85	78	74	94
	4.50	85	93	98	90	87	84	78	74	94
4200	1.75	90	98	101	97	94	91	85	80	99
	3.00	89	97	100	96	93	90	84	79	98
	4.50	87	95	100	95	92	89	83	78	97

The sound power level ratings shown are in decibels referred to 10⁻¹² watts calculated per AMCA Standard 301. Values shown are for inlet L_{wiA} sound power levels for Installation Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. AMCA Certified Ratings Seal for sound performance applies only to the CPV.

120 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS									L _{wi} A
		OCTAVE BANDS									
		1	2	3	4	5	6	7	8		
900	0.25	67	65	64	62	58	52	47	40	63	
1200	0.25	73	75	72	70	66	60	55	48	71	
	0.50	72	75	70	68	65	59	54	47	70	
1500	0.25	77	79	77	75	72	66	61	54	77	
	0.50	77	78	76	74	70	64	59	52	75	
	1.00	75	78	74	71	68	63	58	51	73	
1800	0.25	82	85	81	80	78	73	68	61	82	
	0.50	82	84	80	79	77	70	66	59	81	
	1.00	80	84	78	77	75	68	65	58	80	
	1.50	79	85	78	76	73	68	64	57	78	
2100	0.25	85	89	87	85	82	78	73	66	87	
	0.50	85	89	86	84	82	76	71	65	86	
	1.00	84	88	84	83	80	74	69	63	85	
	1.50	82	87	83	82	79	73	69	62	84	
	2.00	82	88	83	81	77	72	68	62	83	
2400	0.25	87	92	91	89	86	82	77	71	91	
	1.00	87	92	89	87	84	79	73	67	89	
	1.50	86	91	89	86	83	78	73	67	88	
	2.00	84	90	88	86	82	77	72	67	88	
	2.50	84	90	88	85	81	77	72	66	87	

120 CPS/CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
1500	1.00	75	78	74	71	68	63	58	51	73
1800	1.00	80	84	78	77	75	68	65	58	80
	1.50	79	85	78	76	73	68	64	57	78
2100	1.00	84	88	84	83	80	74	69	63	85
	2.00	82	88	83	81	77	72	68	62	83
2400	1.00	87	92	89	87	84	79	73	67	89
	2.50	84	90	88	85	81	77	72	66	87
2700	1.00	89	95	94	91	88	84	78	72	93
	2.00	87	94	93	90	86	82	76	71	92
	3.50	86	93	93	89	84	80	75	69	90
3000	1.00	91	98	98	95	91	87	82	76	97
	3.00	88	95	96	92	88	85	78	74	94
	4.00	88	95	97	92	87	83	78	73	94
3300	1.00	93	100	101	97	93	91	85	80	99
	3.00	91	98	100	94	91	88	81	77	97
	5.00	90	97	100	94	89	86	80	76	96

120 CPS-A/CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
1400	1.000	67	69	67	64	61	58	55	53	67
1800	1.000	74	75	76	74	70	67	64	59	76
	1.750	77	75	75	71	67	64	61	59	73
2400	1.000	84	84	85	85	79	75	74	70	85
	2.000	85	82	83	82	77	74	72	67	84
	3.000	89	82	84	80	75	72	68	66	82
2800	1.000	88	88	90	89	84	79	78	75	90
	2.000	87	87	88	87	83	78	77	73	89
	3.000	90	87	87	86	81	77	75	71	87
	4.000	93	87	88	84	79	76	73	70	86
3200	1.500	90	92	93	93	88	83	81	78	94
	1.750	90	92	93	92	88	83	81	78	93
	2.000	90	92	92	92	87	82	81	78	93
	3.000	90	91	90	90	86	82	80	76	92
	4.000	92	91	91	90	85	81	78	75	91
	5.000	93	92	91	89	84	81	78	74	91

135 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS									L _w A
		OCTAVE BANDS									
		1	2	3	4	5	6	7	8		
800	0.25	69	64	64	62	58	53	47	39	63	
1100	0.25	75	76	73	71	67	61	56	48	72	
	0.50	75	75	72	69	65	60	55	48	71	
	0.75	76	76	70	67	64	59	54	48	70	
1400	0.25	80	81	80	77	74	68	63	55	79	
	0.50	80	80	78	76	72	66	61	54	77	
	0.75	79	79	77	75	71	65	60	53	76	
	1.00	78	79	76	74	70	65	60	53	76	
1700	0.25	85	88	84	82	80	75	70	63	85	
	0.50	85	87	83	82	79	73	68	61	84	
	0.75	84	87	82	81	78	71	67	60	83	
	1.00	84	86	82	80	78	71	67	60	82	
	1.50	82	86	81	79	76	70	66	59	81	
	1.75	82	87	81	78	75	70	65	58	80	
2000	0.50	88	92	88	87	84	79	74	67	89	
	0.75	88	92	88	86	84	77	73	66	88	
	1.00	88	91	87	85	83	76	72	65	87	
	1.50	86	91	86	84	82	76	71	65	87	
	2.00	85	90	85	84	81	75	71	64	86	
	2.50	86	91	86	83	79	74	70	63	85	

135 CPS/CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
1300	1.00	77	78	74	71	67	62	57	50	73
1700	1.00	84	86	82	80	78	71	67	60	82
	1.50	82	86	81	79	76	70	66	59	81
	1.75	82	87	81	78	75	70	65	58	80
2100	1.00	89	93	89	87	84	78	73	67	89
	1.50	88	92	88	86	84	77	73	66	88
	2.00	86	92	87	85	83	77	72	66	87
	2.50	86	92	88	85	81	76	72	65	87
2500	1.00	92	97	95	93	90	85	79	74	95
	1.50	92	97	95	92	89	84	78	72	94
	2.00	91	96	94	91	88	83	78	72	93
	2.50	90	96	94	91	87	83	77	72	93
	3.00	89	95	94	90	87	82	77	71	92
	3.50	89	96	94	90	86	81	76	71	92
2900	1.75	95	101	100	97	93	89	82	77	99
	2.50	94	100	100	96	92	88	82	77	98
	3.00	93	100	99	95	92	88	81	77	98
	3.50	92	99	99	95	91	87	81	76	97
	4.00	92	99	99	95	91	87	81	76	97
	5.00	92	99	100	95	89	86	80	75	97

135 CPS-A/CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{WA}
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
1300	1.000	68	72	69	66	63	60	57	55	69
1700	1.000	77	78	79	76	72	70	67	62	78
	1.500	78	78	78	75	71	68	65	62	77
1900	1.000	81	82	83	80	75	73	70	67	82
	2.000	83	81	81	78	73	70	67	64	80
2100	1.000	84	85	86	84	78	75	74	70	85
	1.500	84	83	84	83	78	75	73	68	84
	2.500	86	83	84	81	76	73	70	67	83
2300	1.000	87	87	89	87	81	78	76	73	88
	1.750	87	86	87	86	80	77	75	71	87
	3.000	90	85	87	84	78	75	72	69	85
2500	1.000	90	90	91	91	84	80	79	76	91
	2.000	89	88	89	89	83	79	78	73	89
	4.000	95	87	89	85	80	77	73	71	87
2700	1.000	92	92	93	93	86	82	81	78	93
	2.000	91	91	92	91	85	81	80	76	92
	4.000	95	90	91	88	83	80	77	74	90
2900	1.500	93	94	95	94	88	84	82	80	95
	3.000	92	92	92	92	87	83	81	77	93
	5.000	97	93	93	90	85	81	78	75	91

The sound power level ratings shown are in decibels referred to 10⁻¹² watts calculated per AMCA Standard 301. Values shown are for inlet L_{wi}A sound power levels for Installation Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. AMCA Certified Ratings Seal applies only to the CPV, CPS-A and CPA-A.

150 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wiA}
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
800	0.25	65	63	65	65	62	57	49	40	67
1100	0.25	72	78	74	74	72	68	61	53	76
	0.50	71	77	73	73	71	67	60	51	75
	0.75	70	75	71	71	71	66	59	50	74
1400	0.25	77	83	82	79	77	75	70	62	82
	0.50	76	82	81	78	77	74	69	61	82
	0.75	75	80	79	77	76	74	68	60	81
	1.00	75	80	78	76	75	73	67	59	80
	1.25	75	80	76	74	75	72	66	58	79
1700	0.25	82	85	91	83	81	80	77	69	88
	0.50	81	84	89	82	81	80	76	68	87
	0.75	80	83	88	82	80	80	76	68	86
	1.00	79	82	86	81	80	79	75	67	86
	1.25	79	82	85	80	79	79	74	66	85
	1.50	80	82	84	79	78	78	73	65	84
	2.00	81	84	82	77	76	77	71	63	82
2000	0.75	83	88	92	88	84	84	81	74	91
	1.00	83	87	91	88	84	83	80	73	91
	1.50	82	86	89	86	84	83	79	72	90
	2.50	83	87	87	83	80	81	77	69	87

150 CPS/CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wiA}
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
1200	1.00	72	77	72	71	73	68	61	53	76
1400	1.00	75	80	78	76	75	73	67	59	80
	1.50	79	82	75	73	74	71	65	57	78
1600	1.00	78	81	84	79	78	78	73	65	84
	2.00	85	86	80	76	74	74	68	60	81
1800	1.00	81	84	88	83	81	81	77	69	88
	2.50	86	88	84	79	77	77	72	64	84
2000	1.00	83	87	91	88	84	83	80	73	91
	3.00	86	89	87	82	79	79	75	68	86
2200	1.00	85	90	94	92	87	86	83	77	94
	2.00	84	88	91	89	85	85	82	75	92
	3.50	86	90	89	85	81	82	78	71	89
2400	1.00	87	92	96	95	89	88	86	80	96
	2.00	85	91	93	93	88	87	85	79	95
	3.00	86	91	92	91	86	86	83	77	93
	4.00	87	92	92	89	84	84	81	74	91
	4.50	92	97	94	89	84	83	80	73	92
2600	1.50	88	94	96	98	90	90	88	82	98
	4.00	88	94	94	93	87	87	85	78	95
	5.00	89	95	95	91	85	85	83	76	93

150 CPS-A/CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wiA}
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
1200	1.00	83	80	77	75	71	65	59	52	76
1500	1.00	91	89	85	82	80	72	66	59	85
	1.50	91	87	83	81	78	72	66	59	83
	1.75	90	87	83	81	78	71	65	59	83
1800	1.00	95	95	91	88	86	79	72	65	91
	2.00	95	94	89	86	84	78	71	65	89
	2.50	94	93	88	86	83	77	71	64	88
2100	1.00	98	100	97	93	91	84	77	70	96
	2.00	98	99	95	92	89	83	77	70	94
	3.00	97	99	94	90	87	82	76	70	93
	3.50	97	99	94	90	87	82	76	69	93
2400	1.00	100	104	101	97	94	90	81	75	100
	2.00	100	104	100	96	93	88	81	74	99
	3.00	100	104	99	95	92	87	80	74	98
	4.00	100	103	98	94	91	86	80	74	97
	4.50	99	103	98	94	90	86	80	73	96
2700	1.75	102	108	105	100	97	93	85	78	103
	3.50	102	107	103	99	95	92	84	78	101
	4.00	102	107	103	98	95	91	84	78	101
	5.00	102	107	102	97	94	90	83	77	100

165 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wiA}
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
750	0.25	68	64	67	67	63	58	50	41	68
1000	0.25	74	78	75	75	72	68	61	52	77
	0.50	73	76	74	74	71	67	59	51	76
	0.75	72	74	71	72	71	66	59	50	75
1250	0.25	78	84	82	80	77	75	69	61	83
	0.50	77	83	81	79	77	74	68	60	82
	0.75	76	82	79	78	77	73	67	59	81
	1.00	76	81	78	76	76	73	66	58	80
	1.25	77	80	76	75	75	72	65	56	79
1500	0.25	82	86	92	82	81	80	76	68	88
	0.50	81	85	90	82	81	80	75	67	87
	0.75	81	84	89	81	80	79	74	66	86
	1.00	80	82	87	81	80	79	74	66	86
	1.25	80	83	86	80	79	78	73	64	85
	1.50	81	83	85	78	78	77	71	63	84
	1.75	81	83	83	77	77	77	70	62	83
1750	2.00	82	84	82	76	76	76	69	61	82
	0.50	85	88	94	87	84	84	80	72	91
	0.75	85	88	93	86	84	84	80	72	91
	1.00	84	87	91	86	84	83	79	71	90

165 CPS/CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS									L _{wiA}
		OCTAVE BANDS									
		1	2	3	4	5	6	7	8		
1100	1.00	74	77	73	73	74	68	61	52	77	
1300	1.00	77	82	80	77	77	74	68	59	81	
	1.50	78	81	77	74	75	72	65	57	79	
1500	1.00	80	82	87	81	80	79	74	66	86	
	2.00	82	84	82	76	76	76	69	61	82	
1700	1.00	83	86	91	84	83	83	78	70	89	
	2.00	84	86	87	81	80	81	75	67	86	
	2.50	85	87	85	80	78	79	73	65	85	
1900	1.00	86	89	94	89	86	85	82	74	93	
	2.00	85	88	91	87	84	84	80	72	91	
	3.00	86	90	89	84	81	82	77	69	88	
2100	1.00	88	92	96	93	88	88	85	78	96	
	2.00	86	90	93	91	88	87	84	77	94	
	3.00	87	92	92	89	85	85	82	74	92	
	4.00	90	94	92	87	83	83	80	72	91	
2300	1.00	90	95	98	97	91	90	88	81	98	
	2.00	88	93	96	95	90	89	87	80	97	
	3.00	88	93	95	93	89	88	85	79	96	
	4.00	89	94	94	91	87	87	84	77	94	
	5.00	95	99	96	91	86	85	82	75	94	

165 CPS-A/CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wiA}
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
1050	1.00	82	78	76	74	69	63	57	51	75
1250	1.00	89	86	82	80	76	69	63	56	82
	1.50	88	85	81	79	75	69	62	55	80
1450	1.00	94	91	88	85	82	74	68	61	87
	2.00	93	90	85	83	80	73	67	60	85
1650	1.00	97	96	92	89	87	79	73	65	91
	2.50	97	94	88	86	83	77	71	65	88
1850	1.00	99	100	96	93	90	83	76	69	95
	3.00	99	98	92	89	86	81	75	69	92
2050	1.00	101	103	99	96	93	87	79	72	98
	3.00	101	102	97	93	90	85	78	72	96
	4.00	100	101	96	92	89	84	78	71	95
2250	1.00	102	106	103	99	96	90	82	75	101
	3.00	102	105	100	96	93	88	81	75	99
	4.00	102	105	99	95	92	87	81	75	98
	4.50	102	104	99	95	91	87	81	75	97
2450	1.50	104	108	105	101	98	93	85	78	103
	3.00	104	108	104	99	96	92	84	78	102
	4.00	104	108	103	98	95	91	84	78	101
	5.00	104	107	102	97	94	90	83	77	100

180 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
575	0.25	62	62	60	60	57	50	44	39	61
825	0.25	72	76	72	72	69	65	57	51	74
	0.50	71	74	69	69	67	62	54	49	71
	0.75	76	74	66	67	66	59	52	48	69
1075	0.25	76	79	80	78	75	73	68	60	80
	0.50	75	78	79	77	74	72	66	59	79
	0.75	75	77	77	75	73	70	64	57	78
	1.00	75	76	75	73	72	68	61	54	76
	1.25	82	78	75	72	71	67	59	53	75
1325	0.25	81	80	83	82	78	78	76	67	85
	0.50	80	80	83	81	78	77	75	66	84
	0.75	79	79	83	81	77	77	74	65	84
	1.00	79	78	82	80	76	76	72	64	83
	1.25	80	78	81	79	76	75	70	62	82
	1.50	81	78	80	79	75	74	68	60	81
	1.75	84	79	79	78	74	73	66	58	80
1575	2.00	93	86	78	78	74	72	65	59	80
	1.75	83	84	84	84	80	79	75	68	86
	2.00	84	84	83	83	80	78	74	66	86

195 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
550	0.25	64	64	62	62	58	51	45	40	63
800	0.25	75	79	75	74	71	66	59	53	76
	0.50	73	77	72	72	69	64	57	51	74
	0.75	73	75	68	69	68	61	54	49	71
1050	0.25	78	80	81	79	76	75	70	61	82
	0.50	77	79	81	78	75	74	68	60	81
	0.75	77	78	80	77	75	73	67	59	80
	1.00	77	77	78	76	73	71	64	57	78
	1.25	78	76	76	74	72	69	61	54	77
1300	0.25	84	83	85	84	80	80	78	69	87
	0.50	83	82	85	84	80	79	77	68	86
	0.75	82	81	85	83	79	79	76	67	86
	1.00	81	81	85	83	79	79	75	67	85
	1.50	83	80	83	81	77	77	71	63	84
	2.00	87	82	81	80	76	75	68	60	82
	2.25	95	88	81	80	76	74	67	60	82
1550	0.75	86	87	88	88	84	83	81	74	91
	1.75	85	86	87	87	83	82	78	71	89
	2.00	86	86	86	86	82	81	77	70	88
	2.25	86	86	86	86	82	80	76	68	88

180 CPS/CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
950	1.00	80	76	70	70	69	64	56	51	73
1150	1.00	77	76	78	76	73	71	65	57	78
	1.25	77	76	76	74	72	70	62	55	77
1550	1.00	82	84	85	85	81	80	78	71	88
	1.50	82	83	84	84	80	79	76	68	86
	2.00	84	83	83	83	79	78	73	65	85
	2.50	89	87	82	82	78	76	71	63	84
1950	1.00	87	91	91	92	88	86	85	80	94
	1.50	86	90	90	91	88	85	84	79	94
	2.00	85	90	90	91	87	85	84	78	93
	2.50	86	90	89	90	87	84	82	76	92
	3.00	87	91	88	89	86	83	81	74	91
	3.50	88	91	88	88	85	82	79	72	91
	4.00	94	96	89	88	85	82	78	71	91
2350	1.25	90	97	95	97	94	90	90	87	99
	2.00	89	96	94	96	93	90	89	86	99
	2.50	89	96	94	96	93	89	89	85	98
	4.50	91	97	93	94	91	87	86	79	96
	5.00	91	98	92	93	91	87	85	78	96

195 CPS/CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
900	1.00	79	76	71	71	70	64	57	52	74
1100	1.00	78	78	80	77	74	73	66	58	80
	1.50	84	79	77	76	72	70	62	55	78
1300	1.00	81	81	85	83	79	79	75	67	85
	2.00	87	82	81	80	76	75	68	60	82
1500	1.00	84	86	87	87	83	82	80	72	89
	2.50	87	85	84	84	80	79	73	65	86
1700	1.00	87	90	90	90	87	85	84	77	93
	2.00	87	89	89	89	86	84	81	75	92
	3.50	93	93	87	87	84	81	76	69	89
1900	1.00	89	94	93	94	90	88	87	81	96
	2.00	88	92	92	93	89	87	86	80	95
	3.00	89	93	91	92	88	86	83	76	94
	4.00	91	93	90	90	87	84	81	73	92
	4.50	97	99	91	90	87	83	80	72	93
2100	1.00	91	97	95	96	93	90	89	85	99
	2.00	90	96	94	96	92	89	89	84	98
	3.00	90	95	94	95	92	89	87	82	97
	4.00	91	96	93	94	91	87	86	79	96
	5.00	93	97	92	92	90	86	84	76	95

180 CPS-A/CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
900	1.00	78	78	69	67	66	62	56	51	71
	1.00	82	83	77	74	73	69	62	57	78
1100	1.25	82	82	76	73	72	69	62	56	77
	1.00	85	88	87	80	79	75	68	63	84
1300	2.00	86	88	85	77	75	73	67	61	82
	1.00	87	92	95	85	83	79	73	67	90
1500	2.00	87	91	93	82	80	78	72	66	88
	2.50	88	92	92	81	79	77	72	66	87
	1.00	90	96	97	89	87	83	77	71	93
1700	2.00	90	95	96	86	85	82	77	70	91
	3.00	90	95	94	84	82	81	76	69	90
	3.50	91	96	95	84	81	80	76	69	90
	1.00	92	99	100	92	91	87	81	74	96
1900	2.00	92	99	98	90	89	86	81	74	95
	3.00	91	98	97	88	86	85	80	73	93
	4.00	92	99	97	87	84	84	80	72	93
	2.00	93	101	101	94	92	89	84	77	98
2100	3.00	93	101	100	92	90	88	83	76	97
	4.00	93	101	99	91	88	87	83	76	95
	5.00	94	102	99	90	86	86	82	75	95

195 CPS-A/CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
850	1.00	79	80	70	68	68	63	57	51	72
950	1.00	82	81	74	72	71	67	60	55	76
	1.25	83	82	73	71	70	67	60	55	75
1150	1.00	86	87	83	80	78	73	67	61	83
	1.75	87	87	81	76	75	72	66	60	81
1350	1.00	89	92	92	85	83	79	72	66	89
	2.00	88	91	90	81	80	77	71	65	86
	2.50	90	92	90	80	79	77	71	65	86
1550	1.00	91	96	98	89	87	83	77	71	94
	2.00	91	96	97	86	85	82	76	70	92
	3.00	91	95	96	84	82	81	75	69	90
1750	1.00	93	100	101	92	91	87	81	74	97
	2.00	93	99	100	90	89	86	80	74	95
	3.00	93	99	98	89	87	85	80	73	94
	4.00	94	99	98	87	85	84	79	72	93
1950	1.75	95	102	102	94	93	90	84	77	99
	2.00	95	102	102	94	93	90	84	77	99
	3.00	95	102	101	92	91	88	84	77	97
	4.50	95	102	99	90	88	87	83	76	96
	5.00	96	103	100	90	87	87	83	76	96

210 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
500	0.25	64	62	62	62	57	50	45	39	63
650	0.25	72	75	71	70	67	61	55	49	72
	0.50	70	71	67	67	64	57	51	46	69
800	0.25	77	81	77	76	73	69	62	55	78
	0.50	76	80	75	74	72	67	60	54	76
	0.75	75	77	72	72	70	64	57	52	74
950	0.25	79	81	81	79	76	74	68	60	82
	1.00	78	78	77	75	74	70	62	55	78
	1.25	80	78	76	74	72	68	60	54	77
1100	0.25	82	81	84	82	78	78	74	65	85
	1.00	80	79	82	80	76	76	70	62	83
	1.75	88	81	80	78	74	72	64	57	80
1250	0.25	86	84	87	86	81	81	79	70	88
	1.00	84	82	87	84	80	80	77	68	87
	2.00	86	81	83	82	77	77	69	61	84
	2.25	92	85	83	82	77	76	68	61	83
1400	1.00	86	86	89	87	83	83	80	72	90
	1.50	86	86	88	87	83	82	79	71	89
	2.00	87	86	87	86	82	81	76	68	88
	2.25	88	85	86	85	81	80	74	66	87

210 CPS/CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
850	1.00	78	77	72	72	71	65	57	52	75
1000	1.00	78	78	79	77	75	72	65	57	80
	1.50	86	80	77	75	73	69	61	55	78
1150	1.00	81	80	84	81	78	77	73	64	84
	1.50	83	80	82	80	76	75	68	60	82
	2.00	92	85	81	79	75	73	66	59	81
1300	1.00	84	84	87	85	81	81	78	69	88
	2.00	87	83	84	83	79	78	71	64	85
	2.50	95	88	83	83	78	77	70	63	85
1450	1.00	87	88	89	88	85	84	81	74	91
	2.00	87	87	88	87	83	82	77	70	89
	3.00	94	91	85	85	81	79	73	66	87
1600	1.00	89	91	91	91	88	86	84	77	94
	2.00	88	90	90	90	86	85	82	75	92
	3.00	90	90	88	88	85	83	78	71	90
	3.50	93	92	88	88	84	82	77	69	90
1750	1.75	90	93	93	93	90	88	86	80	96
	2.00	89	92	93	93	89	87	86	79	95
	4.00	92	93	90	90	87	84	80	72	92
	4.50	100	99	91	90	87	84	79	72	93

210 CPS-A/CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
800	1.00	80	81	71	70	68	64	57	52	73
1000	1.00	86	86	79	78	76	71	64	59	81
	1.50	87	85	77	75	74	71	64	58	79
1200	1.00	89	92	89	84	82	77	71	65	87
	1.50	89	91	87	82	80	77	70	64	86
	2.00	89	90	86	80	79	76	70	64	84
1400	1.00	92	96	97	89	87	82	76	70	93
	2.00	92	95	95	86	84	81	75	69	91
	3.00	93	95	94	84	82	80	74	68	89
1600	1.00	94	100	102	93	91	87	80	74	97
	2.00	94	99	100	90	89	85	80	73	96
	3.00	94	99	99	88	87	84	79	73	94
	3.50	94	99	98	87	85	84	79	72	93
	4.00	95	99	99	87	85	83	79	72	94
1800	1.50	96	103	104	95	94	90	84	77	100
	2.00	96	103	103	94	93	89	84	77	99
	3.00	96	102	102	93	91	88	83	76	98
	3.50	96	102	101	92	90	88	83	76	97
	4.50	96	102	100	90	88	87	83	76	96
	5.00	97	103	101	90	88	87	82	76	96

225 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
450	0.25	64	60	62	61	56	48	43	38	62
650	0.25	75	78	74	73	69	64	57	51	74
	0.50	73	75	70	70	67	61	54	49	72
850	0.25	79	82	80	79	76	73	66	59	81
	0.50	78	81	79	78	75	72	65	58	80
	0.75	78	80	78	76	74	70	63	56	79
	1.00	77	78	75	74	73	68	60	54	77
	1.25	84	79	74	73	72	66	59	54	76
1050	0.25	83	83	85	83	79	79	75	66	86
	0.50	82	82	84	82	79	78	74	65	85
	0.75	81	82	84	81	78	78	73	64	85
	1.00	81	81	83	81	78	77	71	63	84
	1.25	82	80	82	80	77	75	69	61	83
	1.50	82	80	81	79	76	74	67	59	81
	1.75	86	81	81	79	75	73	65	58	81
1250	1.75	87	84	87	85	81	81	75	67	87
	2.00	88	84	86	84	80	80	73	65	87
	2.25	89	84	86	84	80	79	71	64	86

225 CPS/CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
750	1.00	82	80	71	71	69	62	56	52	73
900	1.00	78	79	78	76	74	70	63	56	79
	1.25	80	78	76	75	73	68	60	54	77
1050	1.00	81	81	83	81	78	77	71	63	84
	1.75	86	81	81	79	75	73	65	58	81
1200	1.00	85	84	88	85	81	81	77	69	88
	2.00	87	83	85	83	79	78	71	63	85
	2.50	97	89	84	83	78	76	69	62	85
1350	1.00	88	88	90	89	85	84	82	73	91
	1.50	87	87	90	88	84	84	80	72	91
	2.00	89	87	89	87	83	82	77	69	89
	2.50	90	87	87	86	82	81	75	67	88
1500	3.00	96	91	86	86	81	80	73	66	88
	1.00	90	91	92	92	88	87	85	77	94
	1.50	90	91	92	91	87	86	84	76	94
	2.00	90	90	91	91	87	86	82	75	93
	3.00	91	90	89	89	85	84	78	71	91
1650	3.50	94	92	88	88	84	83	77	69	90
	4.00	103	99	88	88	84	82	76	69	91
	3.00	92	93	92	92	89	87	83	76	94

225 CPS-A/CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
750	1.00	81	83	71	70	69	64	57	52	74
850	1.00	84	85	76	75	73	68	61	56	78
	1.25	84	85	75	73	72	68	61	56	77
1050	1.00	90	90	84	82	80	75	68	63	85
	1.50	89	89	82	80	79	75	68	62	83
	2.00	91	89	81	78	77	74	67	62	82
1250	1.00	93	96	93	88	86	81	74	69	91
	1.50	93	95	92	86	84	80	74	68	90
	2.00	92	94	91	85	83	80	73	67	89
	2.50	93	94	90	83	82	79	73	67	88
1450	1.00	95	100	101	92	90	86	79	73	97
	2.00	95	99	100	90	88	85	79	72	95
	3.00	95	98	98	88	86	84	78	72	93
	3.50	95	98	98	87	85	83	78	71	93
	4.00	97	99	98	86	84	83	77	71	93
1650	1.50	98	103	104	95	93	89	83	77	100
	2.00	97	103	104	94	92	89	83	77	99
	3.00	97	102	103	92	91	88	83	76	98
	4.00	97	102	101	91	89	87	82	75	97
	5.00	99	103	102	90	88	86	82	75	97

245 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
425	0.25	62	62	62	61	57	52	45	37	62
	0.25	76	75	74	72	70	67	61	53	75
	0.50	75	73	72	71	68	64	58	50	73
	0.75	77	72	70	70	66	62	55	48	71
825	0.25	83	84	81	78	77	75	70	63	82
	0.50	82	83	80	78	76	74	69	62	81
	0.75	81	82	79	77	75	73	67	60	80
	1.00	81	81	77	76	73	71	65	58	79
	1.25	81	80	76	75	72	69	63	55	77
1025	0.25	88	90	86	83	81	81	77	70	87
	0.50	87	90	86	82	81	80	77	69	87
	0.75	86	89	85	82	80	79	76	68	86
	1.00	86	89	85	82	80	79	75	67	86
	1.50	85	87	83	80	77	76	72	64	83
1225	2.00	87	86	81	79	75	74	70	61	82
	0.75	90	94	93	87	85	84	81	75	92
	1.00	90	94	93	87	85	84	81	74	91
	1.50	89	93	92	86	84	83	80	73	90
	2.00	88	92	90	85	82	81	78	71	89
	2.50	88	90	89	83	81	79	75	68	87

245 CPS / CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS									L _{wi} A
		OCTAVE BANDS									
		1	2	3	4	5	6	7	8		
700	1.00	84	76	73	73	68	66	59	51	74	
900	1.00	83	84	80	78	76	74	69	62	81	
	1.25	82	83	79	77	74	72	67	59	80	
	1.50	83	83	78	76	73	71	66	58	79	
1100	1.00	87	91	88	84	82	81	77	70	88	
	1.25	87	90	87	83	81	80	77	69	87	
	1.50	87	89	86	82	80	79	75	68	86	
	1.75	86	88	85	81	79	78	74	66	85	
1300	2.00	86	88	84	81	78	76	73	65	84	
	1.00	91	95	95	89	86	85	83	76	93	
	1.25	91	95	95	88	86	85	82	76	93	
	1.50	90	94	95	88	86	84	82	76	92	
	2.00	90	94	93	87	84	83	80	74	91	
1500	2.50	89	93	92	86	83	81	78	72	90	
	3.00	89	92	91	84	82	80	76	70	88	
	1.50	93	98	101	92	90	88	86	81	97	
	2.50	92	97	99	91	88	87	84	79	96	
	3.00	92	97	98	90	87	85	83	78	95	
1500	4.00	91	96	96	88	85	83	80	75	93	
	4.50	97	99	97	89	86	83	80	74	93	

245 CPS-A / CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS									L _{wi} A
		OCTAVE BANDS									
		1	2	3	4	5	6	7	8		
700	1.00	78	78	70	68	67	65	61	55	72	
800	1.00	82	83	75	72	71	69	65	60	77	
	1.25	82	82	73	71	70	68	65	59	76	
900	1.00	86	87	79	76	75	73	69	64	81	
	1.50	86	84	77	74	73	72	68	62	79	
1100	1.00	90	92	88	83	82	79	75	70	87	
	2.00	91	90	85	80	79	77	74	69	85	
	2.50	93	89	85	79	78	76	74	68	84	
1300	1.00	93	97	97	88	86	84	80	76	93	
	2.00	93	96	94	86	84	83	79	75	91	
	2.50	94	95	93	85	83	82	79	74	90	
	3.00	94	94	92	84	82	81	78	74	89	
	3.50	96	95	92	84	82	80	78	73	89	
1500	1.25	96	101	103	92	90	88	84	80	98	
	2.00	96	100	102	91	88	87	84	79	97	
	2.50	96	100	101	90	88	86	83	79	96	
	3.00	96	100	100	90	87	86	83	79	95	
	3.50	96	99	99	89	86	85	83	78	95	
	4.00	96	99	98	88	85	84	82	78	94	
	4.50	97	99	98	88	85	84	82	78	94	

The sound power level ratings shown are in decibels referred to 10⁻¹² watts calculated per AMCA Standard 301. Values shown are for inlet L_{wi}A sound power levels for Installation Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301. AMCA Certified Ratings Seal applies only to the CPV, CPS-A and CPA-A.

270 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
400	0.25	64	65	64	62	59	54	46	39	64
500	0.25	72	72	71	69	67	63	56	48	72
	0.50	70	69	69	67	63	59	51	44	69
600	0.25	78	78	76	74	72	69	63	55	77
	0.50	77	76	75	73	71	67	60	53	75
	0.75	76	74	73	72	68	64	57	49	73
700	0.25	83	83	80	78	76	74	68	60	81
	0.50	82	82	79	77	75	73	67	59	80
	1.00	81	79	76	75	72	68	62	54	77
800	0.25	86	88	83	80	79	77	72	65	84
	1.00	84	85	80	78	76	74	68	60	81
	1.50	85	83	78	77	73	71	65	57	79
900	0.25	89	91	85	83	81	80	76	68	87
	1.00	86	89	84	81	79	78	74	66	85
	1.50	86	87	81	79	76	75	70	62	82
	2.00	91	87	81	79	75	73	68	60	82
1000	0.25	91	93	88	85	84	83	80	72	90
	1.00	89	92	87	84	82	81	78	70	88
	2.00	88	88	84	81	78	77	73	65	84
	2.25	89	88	83	81	78	76	72	64	84

270 CPS / CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
650	1.00	82	77	74	74	70	66	59	52	75
750	1.00	82	82	78	77	74	71	65	57	79
	1.25	82	81	77	76	72	69	63	55	78
850	1.00	85	87	82	80	78	76	71	63	83
	1.75	88	85	80	78	74	72	67	59	80
950	1.00	88	91	85	83	81	80	76	68	87
	2.00	87	87	81	79	76	75	70	62	82
1050	1.00	90	93	89	86	84	83	79	72	90
	2.00	89	90	86	83	80	79	75	67	87
	2.50	90	89	85	82	79	77	73	65	85
1150	1.00	92	96	93	88	86	85	82	75	93
	2.00	91	94	91	86	84	83	79	72	90
	3.00	92	92	89	84	81	79	76	68	88
1250	1.00	94	98	97	91	88	87	85	78	95
	2.00	93	96	96	90	87	86	83	76	94
	3.50	93	94	92	86	83	81	78	71	90
1350	1.25	95	100	100	93	90	89	87	81	97
	3.00	94	97	97	90	87	86	83	77	94
	4.00	93	96	95	88	85	83	80	74	92
	4.50	100	100	96	90	86	83	80	74	93

270 CPS-A / CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
750	1.00	92	86	83	80	74	70	64	58	81
850	1.00	94	92	88	83	79	74	69	62	86
	1.25	95	92	87	83	78	73	68	62	85
950	1.00	96	97	92	86	82	77	73	66	89
	1.75	97	97	91	85	81	75	71	65	88
1050	1.00	97	101	96	89	86	80	76	69	93
	1.50	98	101	95	88	85	80	76	68	92
	2.00	98	101	94	88	85	78	75	68	92
1150	1.00	98	104	99	91	89	82	80	72	96
	2.00	99	105	98	91	88	82	78	71	95
	2.50	100	106	97	90	88	81	77	70	95
1250	1.25	100	107	101	93	91	84	82	74	98
	2.00	101	107	101	93	90	84	81	74	98
	3.00	102	108	99	92	90	83	80	73	97
1350	1.25	101	108	103	96	93	87	84	77	100
	1.50	101	108	103	96	93	87	84	77	100
	2.00	102	108	102	96	93	87	84	76	100
	2.50	102	109	102	96	92	87	83	76	100
	3.00	102	109	101	96	92	86	82	76	99
	3.50	103	110	100	95	92	86	82	75	99

300 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
350	0.25	64	67	64	62	58	52	46	40	63
450	0.25	74	74	72	69	66	62	56	51	71
	0.50	74	72	71	67	64	58	52	46	69
550	0.25	83	79	78	74	72	68	63	57	77
	0.50	83	79	78	73	71	67	61	55	76
	0.75	84	78	76	73	70	65	58	52	75
650	0.25	85	85	82	78	76	73	69	63	81
	1.00	86	82	79	76	73	69	63	58	79
	1.25	86	80	78	75	72	68	61	55	77
750	0.25	87	92	86	82	79	77	74	68	86
	1.00	86	89	84	79	77	74	70	65	83
	1.75	91	85	81	77	74	71	65	59	80
850	0.25	90	95	90	85	83	80	77	72	89
	1.00	87	94	89	84	81	78	75	70	87
	2.00	88	89	84	80	77	75	70	64	83
	2.25	94	89	85	80	77	74	69	63	84
950	0.25	92	98	94	89	86	83	80	76	92
	1.00	90	96	93	87	84	82	79	74	91
	2.00	90	93	90	84	81	79	75	70	88
	2.50	90	92	88	83	80	78	73	68	86

300 CPS / CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
600	1.00	86	79	77	74	71	66	59	53	76
700	1.00	86	85	82	78	75	72	67	61	81
	1.50	88	82	80	76	73	69	63	57	79
800	1.00	86	92	86	81	79	76	73	67	85
	2.00	93	87	83	79	76	72	67	61	82
900	1.00	89	95	91	85	83	80	77	72	89
	2.00	89	91	87	82	79	77	72	67	86
	2.50	94	91	87	82	79	76	70	65	85
1000	1.00	91	97	95	89	86	83	80	76	92
	2.00	91	95	92	87	83	81	77	72	90
	3.00	94	94	89	85	81	79	74	68	88
1100	1.00	93	99	98	92	88	86	83	79	95
	2.00	92	98	97	90	87	84	81	76	94
	3.00	93	96	93	88	84	82	78	73	91
	3.50	93	96	92	87	83	81	77	71	90
1200	1.25	95	101	101	95	90	88	85	81	98
	2.00	93	100	101	94	90	87	84	80	97
	3.00	94	99	98	92	88	85	82	77	95
	4.00	94	98	95	89	86	84	80	74	93
	4.50	100	102	95	91	86	83	79	73	94

300 CPS-A / CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
600	1.00	93	85	78	77	69	66	59	55	78
	1.00	95	89	84	81	75	71	65	60	83
700	1.50	96	88	84	81	74	70	64	59	82
	1.00	97	93	89	85	80	76	70	64	87
800	2.00	98	92	88	84	78	73	68	63	86
	1.00	98	98	94	88	84	79	74	67	91
900	2.00	100	98	92	87	83	77	72	66	90
	2.50	100	98	92	87	82	76	72	66	90
1000	1.00	100	103	98	91	87	82	78	71	94
	2.00	101	103	96	90	87	81	77	70	94
	3.00	102	103	96	90	86	79	75	69	93
1100	1.25	102	106	101	93	90	84	81	73	98
	2.00	102	107	100	93	90	84	80	73	97
	3.00	103	107	99	92	89	82	79	72	97
	3.50	103	107	99	92	89	82	79	72	97
1200	1.25	103	109	104	95	93	86	84	76	100
	2.00	104	110	104	95	93	86	84	76	100
	3.00	104	111	102	95	92	86	82	75	100
	4.00	105	111	102	94	92	84	81	74	100
	4.50	105	111	102	94	92	84	81	74	100

330 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
350	0.25	68	71	68	65	61	56	50	44	67
450	0.25	78	78	75	72	69	65	59	54	74
	0.50	77	76	74	71	68	62	56	50	73
	0.75	77	74	72	69	65	60	53	46	71
550	0.25	86	83	81	77	75	71	66	61	80
	0.50	86	83	81	76	74	70	65	59	80
	1.00	86	80	78	75	72	67	60	54	77
650	0.25	88	90	85	81	79	76	72	67	85
	0.50	88	89	85	80	78	75	71	66	84
	1.00	87	87	82	79	76	73	68	62	82
	1.50	88	84	80	77	74	70	64	58	80
750	0.25	91	96	89	85	82	80	77	72	89
	0.50	90	96	89	84	82	79	76	71	88
	1.00	89	95	87	83	80	78	74	69	87
	1.50	89	91	85	81	78	76	71	66	84
	2.00	91	89	83	79	77	74	68	63	83
850	1.00	91	98	92	87	84	81	79	73	91
	1.50	91	96	91	86	83	80	77	71	89
	2.00	91	94	89	84	81	79	74	69	88
	2.50	92	92	87	82	80	77	72	67	86

330 CPS / CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
525	1.00	85	78	76	74	70	65	57	51	75
625	1.00	87	85	81	78	75	71	66	60	81
725	1.00	88	93	86	82	79	76	73	67	85
	1.50	88	90	83	79	77	74	70	64	83
	2.00	94	87	83	79	76	72	67	61	82
825	1.00	91	97	91	86	83	81	78	72	90
	2.00	91	93	87	83	80	78	73	68	86
	2.50	95	91	87	82	79	76	71	65	85
925	1.00	93	99	95	90	87	84	81	76	93
	1.50	92	98	94	89	86	83	80	75	92
	2.00	93	97	93	87	84	82	78	73	91
	3.00	94	94	90	85	82	80	75	69	88
1025	1.00	95	101	99	93	89	87	84	80	96
	1.50	95	101	99	92	89	86	83	79	96
	2.00	94	100	98	91	88	85	82	78	95
	3.00	95	98	95	89	86	83	79	74	93
	4.00	101	99	94	89	85	82	77	72	92
1125	1.75	96	102	102	95	91	89	86	82	99
	3.00	96	101	99	93	89	87	83	79	96
	4.50	98	100	96	91	87	85	80	75	94

330 CPS-A / CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
500	1.00	88	82	77	73	67	63	57	53	75
600	1.00	96	89	82	80	73	70	62	58	81
	1.25	96	88	81	80	72	69	62	58	81
700	1.00	98	93	88	84	79	75	68	63	86
	1.75	99	91	87	84	77	73	67	62	85
800	1.00	100	97	93	88	83	79	73	67	90
	2.00	101	95	91	87	82	77	71	66	89
	2.50	101	96	91	87	81	76	71	66	89
900	1.00	102	102	97	91	87	82	77	70	94
	2.00	103	101	96	90	86	81	76	70	93
	3.00	103	101	95	90	85	79	75	69	93
1000	1.25	103	106	101	94	90	85	81	73	97
	2.00	104	106	100	93	90	85	80	73	97
	3.00	105	106	99	93	89	83	79	72	96
	3.50	105	106	99	93	89	82	78	72	96
1100	1.25	105	109	104	96	94	87	84	77	101
	2.00	105	110	104	96	93	87	84	76	100
	3.00	106	110	103	95	93	86	83	75	100
	4.00	107	111	102	95	92	85	81	75	100
	4.50	107	111	102	95	92	84	81	75	100

365 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
300	0.25	69	70	66	64	60	53	48	42	65
400	0.25	76	78	75	72	69	65	59	53	74
	0.50	75	77	74	71	67	62	55	50	73
500	0.25	86	84	82	77	75	72	67	61	81
	0.50	86	84	81	77	75	71	65	60	80
	0.75	86	82	80	76	73	69	63	57	79
	1.00	85	81	79	75	72	67	60	54	77
600	0.25	91	91	86	82	80	77	73	67	86
	0.50	90	90	85	81	79	76	72	66	85
	0.75	90	90	85	81	78	75	71	65	84
	1.00	89	88	83	80	77	74	69	63	83
	1.50	88	85	81	78	75	71	65	60	80
700	0.25	93	97	90	86	84	81	78	73	90
	0.50	93	97	90	85	83	80	77	72	89
	0.75	92	96	89	85	82	80	76	71	89
	1.00	91	96	89	84	82	79	76	70	88
	1.50	91	93	87	82	80	77	73	67	86
	2.00	91	90	84	81	78	75	70	65	84
	2.25	95	90	85	81	78	75	69	63	84
800	2.00	94	96	90	86	83	81	76	71	90

365 CPS/CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
500	1.00	85	81	79	75	72	67	60	54	77
600	1.00	89	88	83	80	77	74	69	63	83
	1.50	88	85	81	78	75	71	65	60	80
700	1.00	91	96	89	84	82	79	76	70	88
	1.50	91	93	87	82	80	77	73	67	86
	2.00	91	90	84	81	78	75	70	65	84
800	1.00	94	100	93	88	86	83	80	75	92
	1.50	94	99	92	87	85	82	79	73	91
	2.00	94	96	90	86	83	81	76	71	90
	3.00	101	93	90	85	82	78	73	67	88
900	1.00	97	102	98	92	89	87	84	79	96
	1.50	96	102	97	91	89	86	83	78	95
	2.00	96	101	96	90	88	85	81	76	94
	3.00	96	98	93	88	85	83	78	73	92
	3.50	98	97	92	87	84	82	77	71	91
1000	1.25	99	104	101	95	92	89	86	82	99
	2.00	97	103	101	94	91	88	85	81	98
	3.00	98	102	98	92	89	87	83	78	96
	4.00	98	100	96	91	87	85	81	75	94
	4.50	102	101	96	91	87	84	80	74	94

365 CPS-A/CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
500	1.00	83	83	80	76	71	66	62	53	78
	1.00	91	90	85	80	77	69	73	56	83
600	1.50	89	88	85	80	77	70	68	60	83
	1.00	94	94	90	85	82	76	73	65	88
700	1.50	93	93	90	85	81	75	75	64	87
	2.00	92	91	89	85	81	75	72	65	87
800	1.00	96	97	95	90	86	81	75	69	92
	2.00	95	96	94	89	85	79	77	69	91
	2.50	95	94	93	89	85	79	75	69	91
900	1.00	99	101	99	93	89	85	78	73	96
	2.00	98	100	98	92	88	83	79	74	95
	2.50	97	99	97	92	88	83	79	74	95
	3.00	97	99	97	92	88	83	78	74	94
1000	1.00	101	105	103	97	92	89	82	76	100
	1.50	100	104	102	96	92	88	82	76	99
	2.00	100	104	101	96	91	87	81	77	98
	2.50	100	103	101	95	91	86	81	79	98
	3.00	99	103	101	95	91	86	81	79	98
	3.50	99	102	100	95	91	86	81	78	97
	4.00	98	102	99	95	91	86	81	77	97

402 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
250	0.25	68	67	64	61	56	50	44	38	62
350	0.25	76	78	74	72	68	63	58	52	74
	0.50	75	76	73	70	66	60	54	48	72
450	0.25	85	84	82	78	75	72	66	60	81
	0.50	85	84	81	78	75	71	65	59	80
	0.75	85	83	80	77	73	68	62	57	79
	1.00	84	81	79	75	72	66	60	54	77
550	0.25	92	92	87	83	80	78	73	68	86
	0.50	92	91	86	82	80	77	72	67	86
	0.75	91	91	85	82	79	76	71	66	85
	1.00	91	89	84	80	78	74	69	64	84
	1.50	89	86	81	78	76	72	66	60	81
	1.75	92	86	82	79	75	70	64	59	81
650	0.25	96	98	91	87	85	82	79	74	91
	0.50	95	98	91	87	84	81	78	73	90
	0.75	94	97	90	86	84	81	77	72	90
	1.00	94	97	90	86	83	80	77	71	89
	1.50	93	94	88	84	81	78	74	69	87
	2.00	92	92	86	82	80	76	71	66	85
	2.25	94	91	86	82	79	76	70	65	85

402 CPS/CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS									L _{wi} A
		OCTAVE BANDS									
		1	2	3	4	5	6	7	8		
425	1.00	81	79	77	74	70	64	57	51	75	
	1.00	90	87	83	79	77	73	67	62	82	
525	1.50	89	84	81	78	74	70	64	58	80	
	1.00	93	95	88	84	82	79	75	70	88	
625	1.50	92	92	86	82	80	77	72	67	86	
	2.00	91	89	84	81	78	75	69	64	84	
725	1.00	96	101	93	89	86	84	80	75	93	
	1.50	95	100	92	88	85	82	79	73	92	
	2.00	95	97	90	86	84	81	77	71	90	
	2.50	95	95	89	85	82	80	74	69	88	
825	1.00	99	104	98	93	90	87	85	79	97	
	1.50	98	104	97	92	89	87	84	78	96	
	2.00	98	102	96	91	88	86	82	77	95	
	2.50	98	101	95	90	87	85	81	75	94	
	3.00	98	99	93	89	86	84	79	74	92	
	3.50	98	97	92	88	85	83	77	72	91	
925	1.75	100	106	101	95	92	90	87	82	99	
	3.00	100	104	99	93	90	88	84	79	97	
	3.50	100	102	98	93	90	87	83	78	96	
	4.50	102	101	96	91	88	86	81	75	95	

402 CPS-A/CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
450	1.00	81	79	74	72	67	62	57	53	74
550	1.00	88	89	82	80	76	71	66	63	82
	1.50	85	86	79	77	73	68	62	58	79
650	1.00	92	96	87	85	83	78	72	69	88
	1.50	91	94	85	84	81	76	70	66	86
	2.00	89	93	84	82	79	73	67	63	84
750	1.00	96	100	93	90	88	83	77	74	93
	2.00	93	98	90	87	85	80	74	70	90
	3.00	92	95	88	85	82	77	71	67	88
850	1.00	98	103	98	93	91	88	82	78	97
	2.00	96	101	96	91	89	85	79	75	95
	2.50	96	100	95	90	88	84	78	74	94
	3.00	95	99	94	90	87	82	77	72	93
	3.50	94	98	93	89	86	81	75	71	92
	4.00	95	97	92	88	85	80	75	71	91
950	1.50	100	105	102	96	94	90	85	80	100
	2.00	99	104	101	95	93	89	84	79	99
	3.00	98	103	99	93	91	87	81	77	97
	4.00	96	101	98	92	89	85	79	74	95
	5.00	97	100	96	91	88	83	78	74	94

445 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
250	0.25	72	71	68	65	60	54	49	43	66
350	0.25	80	81	77	75	72	67	61	55	77
	0.50	79	80	77	74	70	64	58	53	76
	0.75	77	78	76	72	68	61	55	49	74
450	0.25	90	88	84	81	78	75	70	64	84
	0.50	90	88	84	80	78	74	69	63	83
	0.75	89	87	83	80	77	73	67	61	82
	1.00	88	85	82	78	75	71	65	59	81
	1.25	87	84	80	77	74	69	62	57	79
550	0.25	96	96	89	86	83	81	77	72	89
	0.50	95	95	89	85	83	80	76	71	89
	0.75	95	94	88	85	82	79	75	70	88
	1.00	94	94	87	84	81	78	74	69	87
	1.25	93	92	86	83	80	77	72	67	86
	1.50	92	91	85	82	79	76	71	66	85
	2.00	93	89	84	81	78	74	68	63	83
650	1.75	97	98	91	87	85	82	77	72	91
	2.00	96	97	90	86	84	81	76	71	90
	2.25	96	96	90	86	83	80	75	70	89
	2.50	96	95	89	85	83	79	74	69	88

445 CPS / CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
400	1.00	81	81	79	76	71	65	59	53	77
500	1.00	92	89	84	81	78	75	70	64	84
	1.50	90	86	82	79	76	72	66	61	82
	1.75	91	86	82	79	76	71	65	59	81
600	1.00	96	97	91	87	84	81	77	72	90
	1.50	95	95	89	85	83	79	75	70	89
	2.00	94	93	87	83	81	78	72	67	87
	2.50	98	92	87	83	80	76	70	65	86
700	1.00	99	103	96	91	89	86	83	77	95
	1.50	98	103	95	90	88	85	82	76	94
	2.00	98	101	93	89	87	84	80	74	93
	2.50	98	99	92	88	85	83	78	72	92
	3.00	98	97	91	87	84	81	76	70	90
800	1.00	102	107	100	95	93	90	87	82	99
	1.50	101	106	99	94	92	89	86	81	99
	2.00	101	106	99	94	91	88	85	80	98
	2.50	101	104	98	93	90	88	84	79	97
	3.00	101	103	97	92	89	87	82	77	96
	4.00	101	100	94	90	88	85	80	74	94
	4.50	109	100	96	91	88	84	79	73	94

445 CPS-A / CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
400	1.00	82	78	74	72	67	61	56	52	73
500	1.00	90	89	82	80	77	71	66	64	82
	1.50	87	86	80	78	74	68	63	59	80
	1.75	87	85	80	77	73	68	63	60	79
600	1.00	94	97	88	86	84	79	73	71	89
	1.50	93	95	87	85	82	76	71	68	87
	2.00	91	93	85	83	80	74	69	65	86
	2.50	92	91	84	82	78	73	68	65	84
700	1.00	98	103	94	91	89	85	78	76	94
	1.50	97	101	92	90	88	83	77	74	93
	2.00	96	100	91	89	86	81	75	72	92
	2.50	95	99	90	88	85	80	74	70	91
	3.00	94	98	89	87	84	78	72	68	89
800	1.25	101	105	99	95	92	89	82	79	98
	2.00	99	104	97	93	91	87	81	77	97
	2.50	98	103	96	92	90	85	79	76	96
	3.00	98	102	95	92	89	84	78	74	95
	3.50	97	101	94	91	88	83	77	73	94
	4.00	96	100	93	90	87	82	76	71	93
	4.50	99	98	93	90	86	81	76	72	92

490 CPV

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								L _{wi} A
		OCTAVE BANDS								
		1	2	3	4	5	6	7	8	
250	0.25	76	75	71	69	64	58	53	47	70
350	0.25	83	84	80	78	75	70	64	59	80
	0.50	83	84	80	77	74	68	63	57	79
	0.75	81	82	79	76	72	66	60	54	78
	1.00	80	80	78	75	70	63	57	51	76
450	0.25	95	91	87	84	81	78	73	68	87
	0.50	94	91	86	83	80	77	72	67	86
	0.75	94	90	85	83	80	76	71	66	85
	1.00	92	89	84	81	79	75	69	64	84
	1.25	91	87	83	80	78	73	68	62	83
	1.50	90	86	82	79	76	71	66	60	82
550	0.50	99	98	92	89	86	83	79	74	92
	0.75	98	98	92	88	85	83	79	73	91
	1.00	98	97	91	88	85	82	78	72	91
	1.25	97	97	90	87	84	81	77	71	90
	1.50	97	95	89	86	83	80	75	70	89
	1.75	96	94	88	85	83	79	74	69	88
	2.00	95	93	88	84	82	78	73	68	87
	2.25	95	92	87	84	81	77	72	66	86
	2.50	97	92	88	84	81	76	71	65	87

490 CPS / CPA

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS									L _{wi} A
		OCTAVE BANDS									
		1	2	3	4	5	6	7	8		
350	1.00	80	80	78	75	70	63	57	51	76	
450	1.00	92	89	84	81	79	75	69	64	84	
	1.50	90	86	82	79	76	71	66	60	82	
550	1.00	98	97	91	88	85	82	78	72	91	
	1.50	97	95	89	86	83	80	75	70	89	
	2.00	95	93	88	84	82	78	73	68	87	
	2.50	97	92	88	84	81	76	71	65	87	
650	1.00	101	104	97	92	90	87	84	78	96	
	1.50	100	103	96	92	89	86	82	77	95	
	2.00	100	102	94	90	88	85	81	75	94	
	2.50	100	100	93	89	87	84	79	74	93	
	3.00	99	98	92	88	86	82	77	72	91	
	3.50	103	97	92	88	85	81	76	70	91	
750	1.75	103	108	100	95	93	90	87	82	100	
	2.00	103	108	100	95	93	90	87	81	99	
	2.50	103	107	99	94	92	89	85	80	98	
	3.00	103	105	98	93	91	88	84	79	97	
	3.50	103	104	97	92	90	87	83	77	96	
	4.00	103	102	96	92	89	87	81	76	95	
	4.50	106	102	96	92	89	86	80	75	95	

490 CPS-A / CPA-A

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS									L _{wi} A
		OCTAVE BANDS									
		1	2	3	4	5	6	7	8		
350	1.00	82	76	74	71	65	60	56	52	72	
450	1.00	91	88	83	81	76	71	66	64	82	
	1.50	88	85	80	78	73	68	63	58	80	
550	1.00	96	97	89	87	84	79	74	72	90	
	1.50	95	95	88	86	82	77	72	69	88	
	2.00	93	93	86	84	80	75	69	66	86	
	2.50	93	91	85	83	79	73	69	65	85	
650	1.00	100	104	95	92	90	86	79	77	96	
	1.50	99	103	93	91	89	84	78	75	94	
	2.00	98	101	92	90	88	82	76	73	93	
	2.50	97	100	91	89	86	81	75	71	92	
	3.00	96	99	90	88	85	79	73	69	91	
	3.50	97	97	89	88	84	78	73	69	90	
750	1.25	103	107	100	96	94	90	83	81	100	
	2.00	102	106	98	95	93	88	82	79	98	
	2.50	101	105	97	94	92	87	81	77	97	
	3.00	100	104	96	93	91	86	80	76	96	
	3.50	99	103	95	92	90	85	79	75	95	
	4.00	99	102	95	92	89	83	78	73	94	
	4.50	99	101	94	91	88	83	77	73	94	

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
	0.375	59	60	62	61	59	56	53	49	64
1140	0.125	76	75	78	77	74	72	69	66	80
	0.250	75	75	77	76	74	71	68	65	79
	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
1725	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
	0.125	68	68	69	67	65	62	59	57	70
	0.250	67	67	68	66	64	61	58	55	69
1140	0.375	64	65	66	65	63	59	56	52	67
	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
1725	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
	0.125	76	72	77	74	73	71	68	63	78
1140	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	0.750	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
1725	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
1725	0.750	73	76	81	75	74	68	63	57	78
	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
1725	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
1725	0.750	83	87	84	78	75	70	68	61	81
	1.000	81	87	83	77	74	69	67	60	80
	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
1725	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
1200	1.250	75	83	86	82	81	76	71	66	85
1400	1.750	78	86	91	86	84	80	75	71	89

120 CPFB

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								
		OCTAVE BANDS								L _W A
		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
975	0.75	73	77	74	69	66	64	61	54	73
	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
1175	1.25	76	82	81	75	72	69	66	61	78
	1	83	91	94	88	82	79	78	75	90
	1.5	81	88	90	84	79	76	74	70	86
1375	1.75	80	87	88	82	77	75	72	67	84
	1.75	85	93	97	91	84	82	80	77	93
	2	84	92	95	89	83	80	78	75	91

150 CPFB

RPM	SP	SOUND POWER re 10 ⁻¹² WATTS								
		OCTAVE BANDS								L _{wi} 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 _{wi} 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
500	0.375	71	73	64	68	62	57	52	54	68
	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
	0.125	87	92	88	84	81	79	77	71	87
600	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
	0.625	86	93	93	86	84	80	79	73	90
700	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 _{wi} 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
	0.750	95	100	96	88	85	82	79	74	92
600	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
	1.500	95	102	99	88	87	83	79	73	94
700	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 _{wi} 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 _{wi} 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
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 _{wi} 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
375	0.125	99	99	88	84	83	81	79	73	90
	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
450	0.125	103	108	94	89	88	85	84	79	96
	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
525	1.5	95	100	85	82	84	78	73	66	89
	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
600	2	98	104	91	86	88	83	78	71	93
	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 Standard 301. Values shown are for inlet L_{wi}A sound power levels for Installation Type B: Free Inlet, Ducted Outlet. Ratings do not include the effects of duct end correction. The A-weighted sound ratings shown have been calculated per AMCA Standard 301.

UL 762 Listed for Restaurant Exhaust Appliances

Cook products, with UL 762 Listing are designed to eject contaminated or grease-laden air. The products are UL listed to operate continuously at elevated temperatures, and continue operation during grease flare-up.

Products UL Listed to Operate up to 300°F

CPV/CPA/CPA-A

Products UL Listed to Operate up 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 230°F, high temperature paint is recommended. Continuous operation at temperatures above 300°F require shaft cooler, motor heat shield, high-temp weather cover and wheel construction other than aluminum.

All of the units are intended for installation in accordance with the Standard of the National Fire Protection Association for the installation of Equipment for the Removal of Smoke and Grease-Laden Vapors from Commercial Cooking Equipment, NFPA 96.

UL 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 the 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:

- The unit must withstand 500°F airstream temperature for a minimum of four hours (IRI) and withstand 1000°F for a minimum of 15 minutes (SBCCI).
- The unit must be listed under UL 705.

Products UL Listed for Smoke Control

CPS/CPS-A

Cook model CP units are available in sizes 60 through 490 with performances up to 5” w.g. static pressure.



CPV / CPS / CPA / CPS-A / CPA-A
Shown with weather cover



UL Listed for
Restaurant Exhaust
Appliances



CPS / CPS-A
Shown with weather cover



Listed Power
Ventilator for Smoke
Control Systems



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