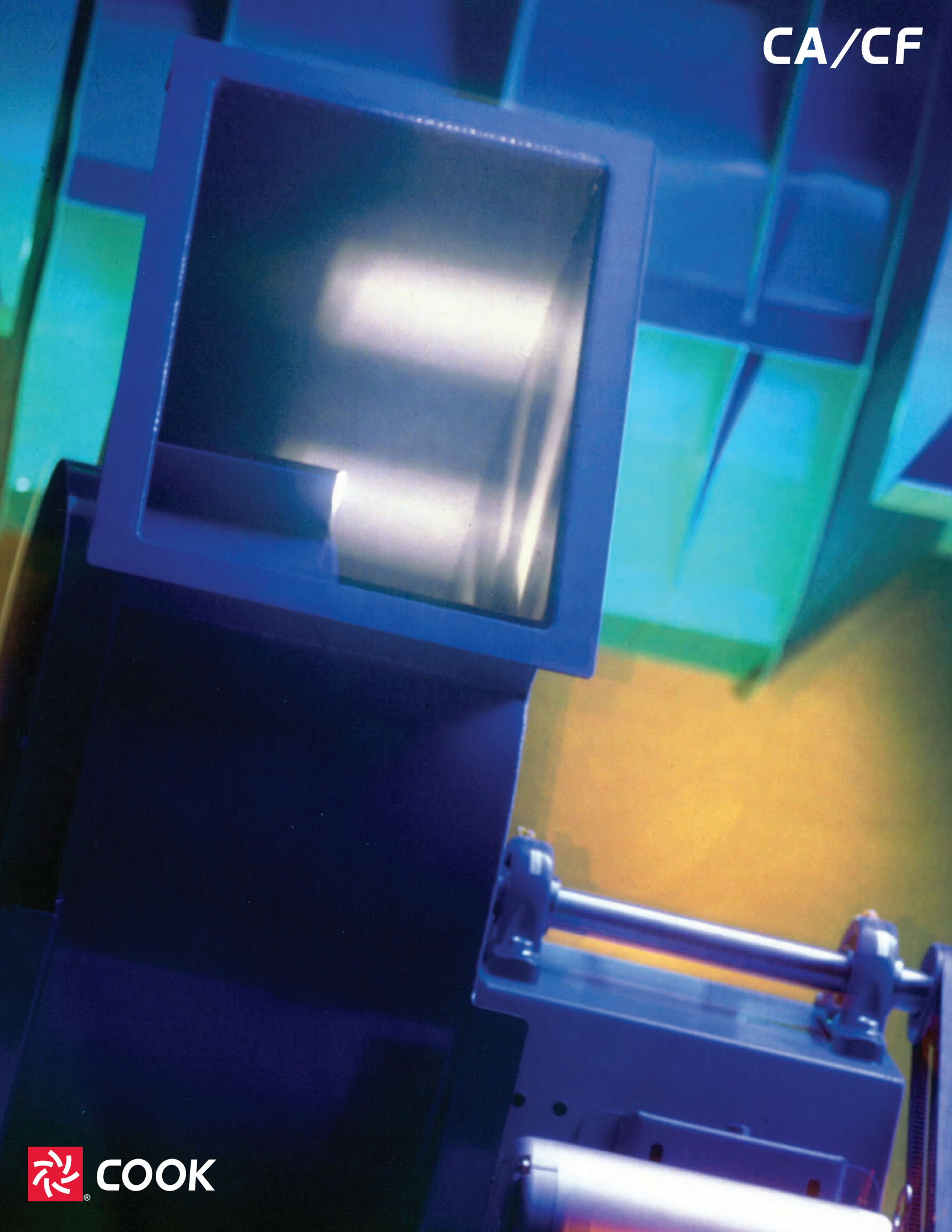
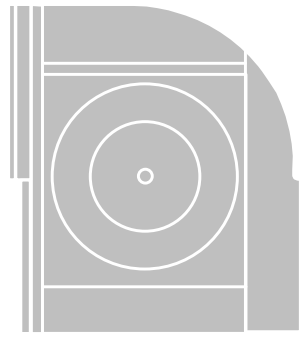
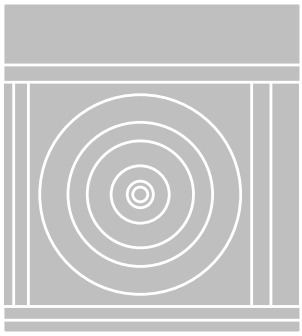

CA/CF
COOK

CA/CF

Steel Centrifugal Blowers





INTRODUCTION

The CA/CF centrifugal blowers are designed for heavy duty supply, exhaust or return air applications. CA/CF blowers are available in AMCA standard discharges and rotations. 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).

- Continuously welded housing to ensure a leak-proof enclosure and all welded steel support structure for dependable, long lasting operational life.
- Outlet flanges are standard on all sizes.
- Lifting lugs are provided to assist in handling and positioning of the fan in the field.
- The CA blowers are standard with a steel backward inclined, airfoil wheel and are available in SWSI and DWDI configurations.
- All CA units are licensed to bear AMCA Certified Ratings Seal for Sound and Air Performance.
- The CF blowers are standard with a steel backward inclined, flat blade wheel and are available in SWSI configurations.
- All CF units are licensed to bear AMCA Certified Ratings Seal for Air Performance.

CA/CF SWSI

Arr. 9

- UL/cUL 762 listing is available for restaurant applications and UL/cUL listing for “Power Ventilator for Smoke Control Systems” is also available.
- Available in Arrangements 1, 3, 4, 7, 8, 9 and 10.
- Also available in a more compact alternate construction, the CA/CF-4 SWSI, that is available in Arrangements 1, 2 and 3.
- A swing out construction, where the wheel and power assembly are mounted to a hinged door, is available in CA/CF-4 SWSI Arrangement 2 for applications where frequent inspection and/or cleaning are required. The swing out construction is available on sizes 210 to 490.
- Inlet collars are standard on Arrangements 1, 2, 9 and 10 for easy connections to duct systems.
- CA SWSI is available in 20 sizes with wheels from 12 to 73 inches. Performance ranges from 500 to 209,000 CFM with static pressures from 1 to 12 inches.
- CA-4 SWSI is available in 18 sizes with wheels from 12 to 60 inches. Performance ranges from 500 to 141,000 CFM with static pressures from 1 to 12 inches.
- CF SWSI is available in 20 sizes with wheels from 12 to 73 inches. Performance ranges from 750 to 198,000 CFM with static pressures from 1 to 12 inches.
- CF-4 SWSI is available in 18 sizes with wheels from 12 to 60 inches. Performance ranges from 750 to 127,000 CFM with static pressures from 1 to 12 inches.

CA SWSI Arr. 10

CA-4 SWSI Arr. 2

CA-4 Swing Out Arr. 2

CA DWDI

Arr. 3

- Available in Arrangement 3, 7 and also available in a more compact alternate construction, the CA-4 DWDI.
- CA DWDI is available in 20 sizes with wheels from 12 to 73 inches. Performance ranges from 900 to 375,000 CFM with static pressures from 1 to 12 inches.
- CA-4 DWDI is available in 18 sizes with wheels from 12 to 60 inches. Performance ranges from 900 to 261,000 CFM with static pressures from 1 to 12 inches.

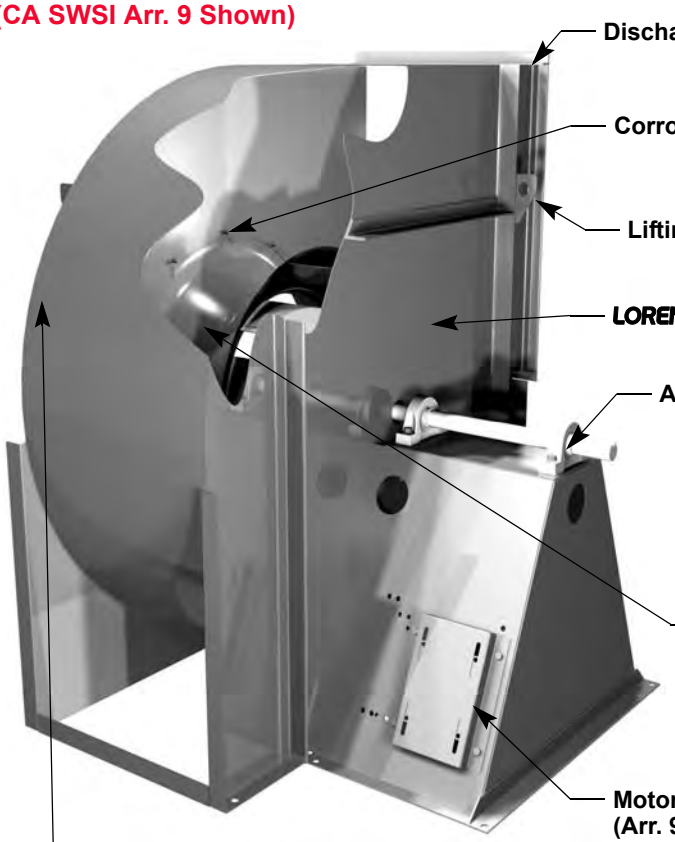
CA-4 DWDI Arr. 3

CAF-DW

- CAF-DW is a compact, lighter double wide blower for use in space critical applications.
- Available in Arrangement 3.
- CAF-DW is available in 20 sizes with wheels from 12 to 73 inches. Performance ranges from 900 to 375,000 CFM with static pressures from 1 to 12 inches.

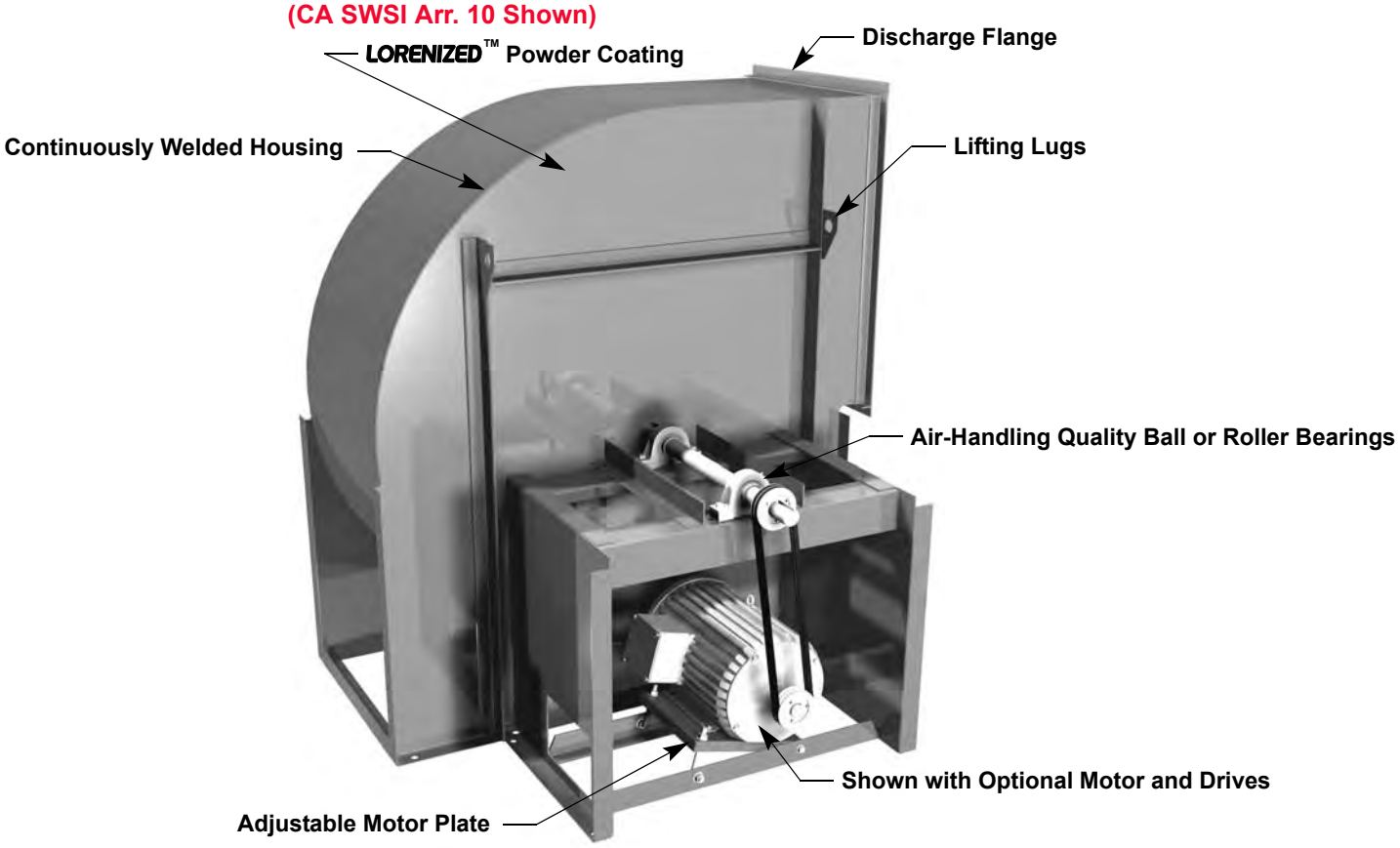
STANDARD CONSTRUCTION FEATURES

SWSI Arr. 1, 9
(CA SWSI Arr. 9 Shown)



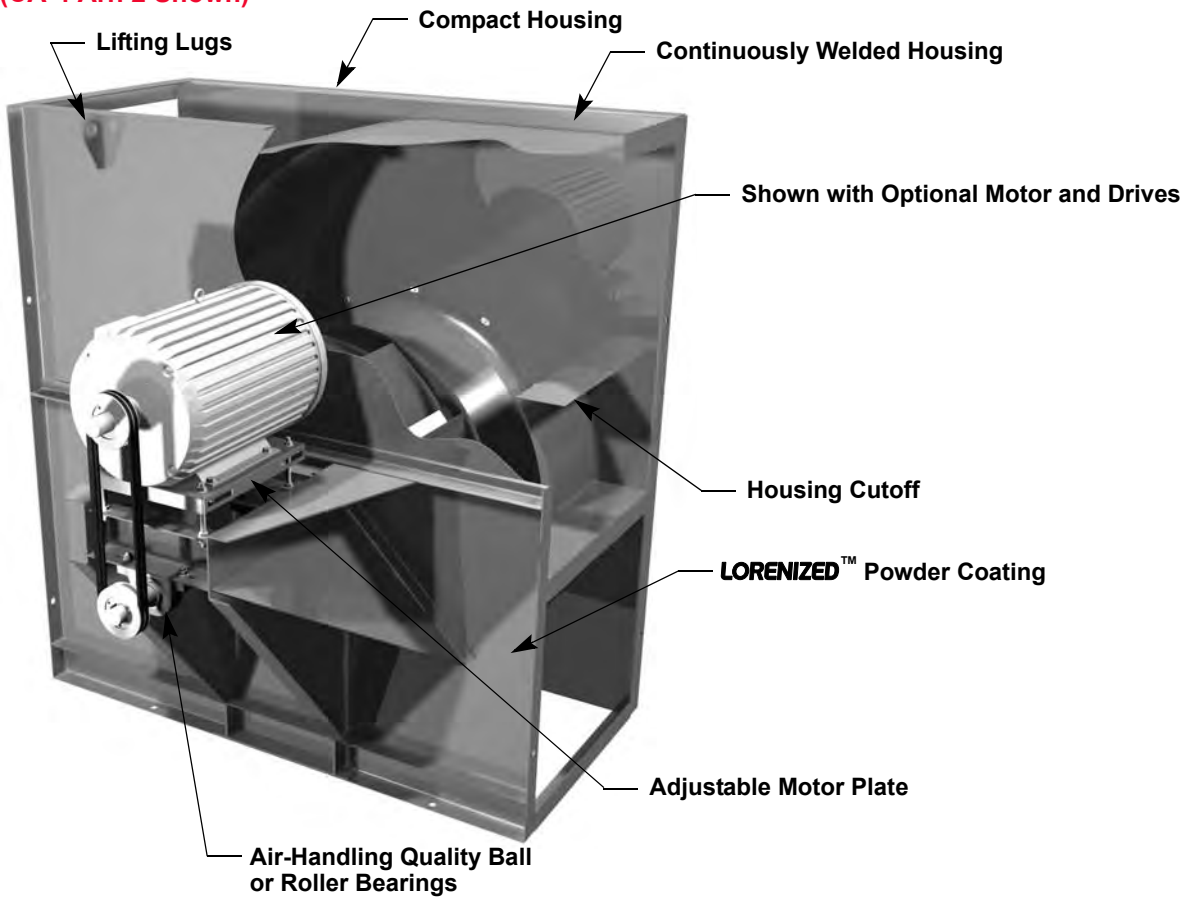
Standard Features Not Shown
Housing Cutoff
Inlet Collar
Engraved Aluminum Nameplate

SWSI
(CA SWSI Arr. 10 Shown)



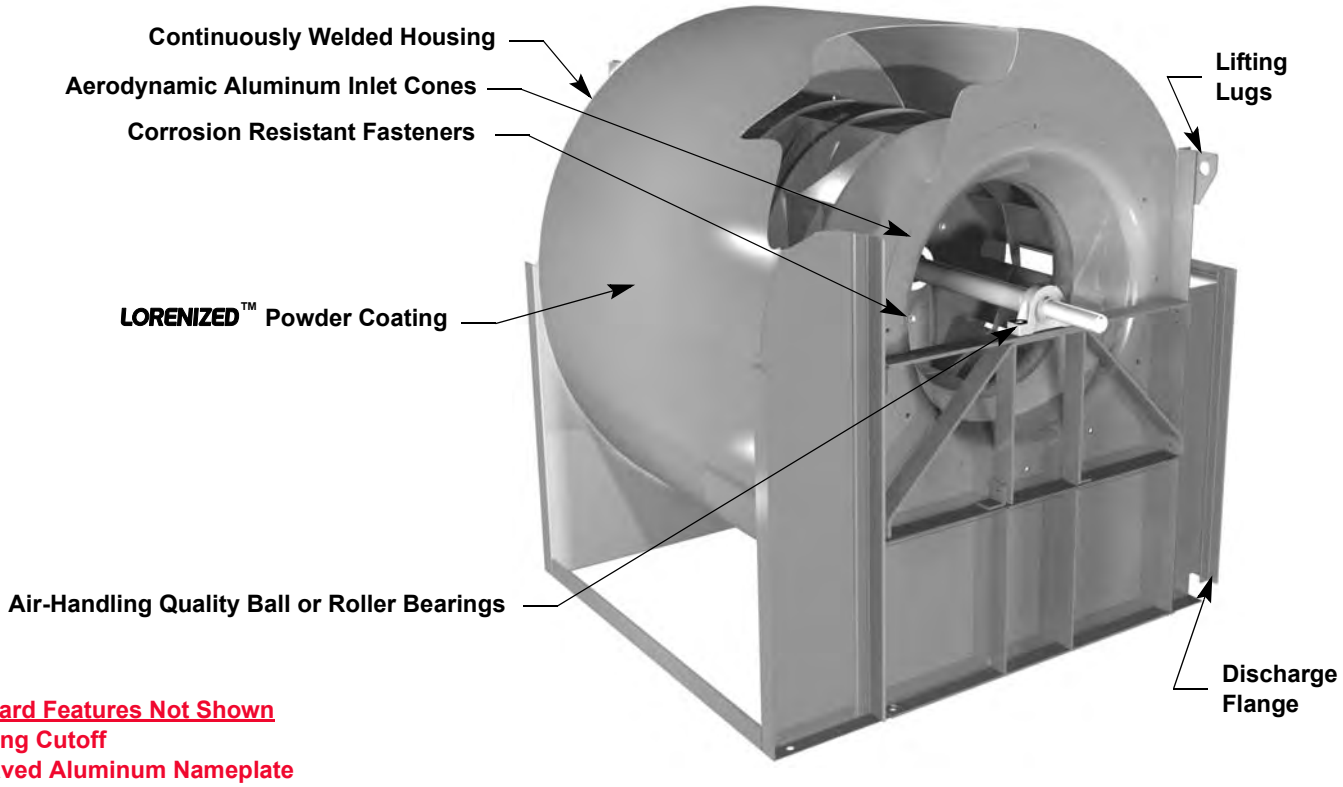
CA-4

(CA-4 Arr. 2 Shown)



DWDI

(CA DWDI Shown)



Standard Features Not Shown
Housing Cutoff
Engraved Aluminum Nameplate

Airfoil Centrifugal Blower
Backward Inclined
Belt Drive
Single Width, Single Inlet

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

Type CA SWSI is furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.

Type CA SWSI is available with UL 762 and cUL 762 listing (Power Ventilator for Restaurant Exhaust Appliances/Y2HW).

Type CA SWSI is available with UL listing for "Power Ventilator for Smoke Control Systems."

Description - Fan shall be a single width, single inlet backward inclined airfoil blade steel wheel, belt driven centrifugal blower.

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

Construction - The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper and scroll side panels shall be a minimum 12 gauge steel. The entire fan housing shall have continuously welded seams for leak-proof operation and shall have a minimum 1-1/2" outlet discharge flange. A performance cut-off shall be furnished to prevent the recirculation of air in the fan housing. Bearing support shall be minimum 10 ga. welded steel. Lifting eyes 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 - All steel fan components shall be ***LORENIZED***™ with an electrostatically applied, baked polyester powder coating. Each component shall be subject to a five stage environmentally friendly wash system, followed by a minimum 2 mil thick baked powder finish. Paint must exceed 1,000 hour salt spray under ASTM B117 test method.

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

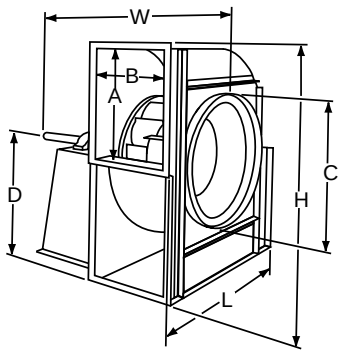
Motor - Motor shall be Nema design B with class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

Blower Sh aft - 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 percent of maximum RPM.

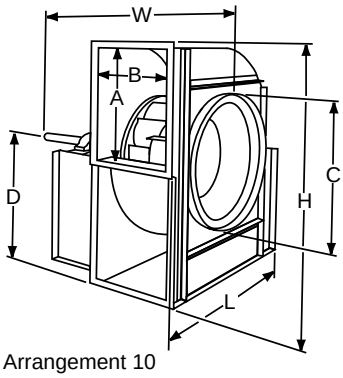
Bearings - Bearings shall be designed and tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball or roller type in a cast iron pillow block housing and selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

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 percent of the installed motor horsepower. The variable pitch motor drive must be factory set to the specified fan RPM.

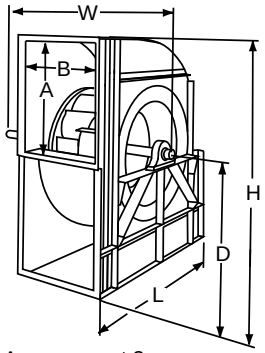
Product - Fan shall be model CA SWSI as manufactured by Loren Cook Company of Springfield, Missouri.



Arrangement 1 & 9



Arrangement 10



Arrangement 3

CA SWSI Dimension Data Arrangement 1, 9 & 10

Size	A-I.D.	B-I.D.	C-O.D.	D			H		
				THD DBD	UBD TAU	BHD BAU	THD	UBD	BHD
120	13-1/8	9-3/16	16-1/4	13		16	27-3/4	23-3/8	25-3/4
135	14-3/4	10-5/16	17-3/4	14		17	30-3/8	25-5/8	28
150	16-7/16	11-7/16	19-1/4	15		19	32-15/16	27-7/8	31-3/16
165	18-1/16	12-5/8	21-1/4	17		21	36-9/16	31-1/4	34-3/8
180	19-11/16	13-3/4	22-3/4	18		22	39-1/4	33-1/2	36-5/8
195	21-5/16	14-15/16	24-1/4	20		24	42-7/8	36-3/4	39-13/16
210	23	16-1/16	26	21		26	45-9/16	39-1/8	43-1/16
225	24-5/8	17-3/16	27-1/2	23		28	49-3/16	42-3/8	46-1/4
245	26-13/16	18-3/4	29-1/2	25		30	53-1/4	46-1/8	49-7/8
270	29-9/16	20-5/8	32	27		33	58	50-1/4	54-15/16
300	32-13/16	22-15/16	35	30		36	64-1/4	55-7/8	60-3/8
330	36-1/8	25-1/4	38	33		39	71	61-3/8	65-13/16
365	39-15/16	27-7/8	41-1/2	36		43	77-15/16	67-7/16	72-5/8
402	44-1/16	30-3/4	45-1/4	40		47	85-15/16	74-5/8	79-5/8
445	48-11/16	34	49-1/2	44		52	94-1/2	82-5/16	88-1/8
490	53-5/8	37-7/16	55	48		57	103-3/8	90-3/16	96-3/4
540	59-1/16	41-1/4	60	53		62	113-15/16	99-1/2	105-13/16
600	65-5/8	45-13/16	66	59		69	126-3/8	110-5/8	117-11/16
660	72-3/16	50-7/16	72	65		75	138-15/16	121-7/8	128-9/16
730	79-7/8	55-3/4	79	72		83	153-1/2	134-7/8	142-1/4

Size	H			L				W	Max Motor Frame Size**		Approx. Ship. Wt. - Lbs.*
	DBD	BAU	TAU	THD BHD	DBD UBD	BAU	TAU		Arr. 9	Arr. 10	
120	24-3/4	25	30-11/16	24-1/2	25-3/4	28-9/16	24	26-1/4	145T	56	215
135	25-9/16	27	33-3/4	27	28-3/4	32-3/4	27	27-3/8	145T	145T	271
150	29-1/4	30-1/8	36-13/16	29	31-5/8	35-13/16	29	30-1/2	184T	145T	331
165	32-5/8	33-1/4	40-7/8	31-1/2	34-3/8	39-15/16	32	32-5/8	184T	184T	395
180	35-1/8	35-3/8	43-15/16	33-3/4	37-1/8	42-15/16	35	36-1/4	215T	184T	462
195	38-1/2	38-3/8	48	36-1/4	40	46	37	37-1/2	215T	184T	533
210	40-15/16	41-5/8	51-1/8	41	42-7/8	50-1/8	40	41-1/8	256T	184T	608
225	44-3/8	44-3/4	55-1/8	43	45-3/4	53-3/16	42	42-1/4	256T	215T	687
245	48-1/4	48-1/8	59-7/8	46	49-1/2	57-7/8	46	46-1/4	286T	256T	797
270	50-1/8	53	65-3/8	50	54-3/4	63-3/8	50	48-5/8	286T	284T	945
300	58-1/2	58-1/4	72-1/2	55-3/8	60	70-1/2	56	53-1/2	326T	326T	1135
330	64-3/8	63-1/2	80	60-3/4	65-3/4	78	61	56-1/4	326T	365T	1341
365	70-5/8	70	87-7/8	67	72-3/8	85-7/8	67	63-1/4	326T	404T	1600
402	78-1/4	76-3/4	97	73-7/8	80-3/8	94	73	67-11/16	326T	404T	1895
445	86-1/4	85	106-13/16	81-1/2	88-1/2	103-13/16	81	75-7/16	326T	404T	2268
490	94-1/2	93-1/4	117	89-3/4	97	114	89	79-7/16	404T	404T	2690
540	104-1/4	101-7/8	128-15/16	98-3/4	106-5/8	124-15/16	97	87-11/16	404T	404T	3199
600	116	113-3/8	143-3/16	109-5/8	118	138-3/16	108	92-11/16	404T	404T	3864
660	121-5/8	123-3/4	158-1/2	120-5/8	129-3/8	152-1/2	119	101-15/16	404T	404T	4589
730	141-5/16	137	174-1/16	133-1/4	142-5/8	168-1/8	131	107-11/16	404T	404T	5510

**Maximum motor frame for Arrangement 9 & 10; based on single speed ODP motor.

CA SWSI Dimension Data Arrangement 3

Size	A-I.D.	B-I.D.	D		H		L		W	Approx. Ship. Wt. - Lbs.*
			UBD, THD, DBD	BHD	THD BHD	UBD DBD	THD BHD	UBD DBD		
120	13-1/8	9-3/16	13	16	27-11/16	25-3/4	24-1/2	25-3/4	19-7/16	161
135	14-3/4	10-5/16	14	17	30-5/16	28-3/4	27	28-3/4	20-9/16	200
150	16-7/16	11-7/16	15	19	32-15/16	31-5/8	29	31-5/8	21-11/16	242
165	18-1/16	12-5/8	17	21	36-9/16	34-5/8	31-1/2	34-5/8	23-7/8	288
180	19-11/16	13-3/4	18	22	39-1/4	37-1/8	33-3/4	37-1/8	25-1/2	337
195	21-5/16	14-15/16	20	24	42-7/8	40	36-1/4	40	26-11/16	390
210	23	16-1/16	21	26	45-9/16	42-7/8	41	42-7/8	28-5/16	446
225	24-5/8	17-3/16	23	28	49-1/8	45-3/4	43	45-3/4	29-7/16	505
245	26-13/16	18-3/4	25	30	53-1/4	49-1/2	46	49-1/2	32-1/2	590
270	29-9/16	20-5/8	27	33	58	54-3/4	50	54-3/4	34-7/8	704
300	32-13/16	22-15/16	30	36	64-1/4	60	55-3/8	60	37-11/16	853
330	36-1/8	25-1/4	33	39	71	65-3/4	60-3/4	65-3/4	40-1/2	1014
365	39-15/16	27-7/8	36	43	77-7/8	72-3/8	67	72-3/8	43-5/8	1218
402	44-1/16	30-3/4	40	47	85-15/16	80-3/8	73-7/8	80-3/8	47-1/8	1452
445	48-11/16	34	44	52	94-1/2	88-1/2	81-1/2	88-1/2	50-7/8	1747
490	53-5/8	37-7/16	48	57	103-3/8	97	89-3/4	97	55-13/16	2081
540	59-1/16	41-1/4	53	62	113-15/16	106-5/8	98-3/4	106-5/8	62-1/8	2484
600	65-5/8	45-13/16	59	69	126-3/8	118	109-5/8	118	67-5/16	3008
660	72-3/16	50-7/16	65	75	138-15/16	129-3/8	120-5/8	129-3/8	74-7/16	3577
730	79-7/8	55-3/4	72	83	153-1/2	142-5/8	133-1/4	142-5/8	80-1/4	4297

* Class I only. For Class II add 10%. For Class III add 20%.

Airfoil Centrifugal Blower
Backward Inclined
Belt Drive
Single Width, Single Inlet

Loren Cook Company certifies that the CA-4 SWSI shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Type CA-4 SWSI is furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.

Type CA-4 SWSI is available with UL 762 and cUL 762 listing (Power Ventilator for Restaurant Exhaust Appliances/Y2HW).

Type CA SWSI is available with UL listing for "Power Ventilator for Smoke Control Systems."

Description - Fan shall be a rectangular, single width, single inlet backward inclined airfoil blade steel wheel, belt driven centrifugal blower.

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

Construction - The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper and scroll side panels shall be a minimum 12 gauge steel. The entire fan housing shall have continuously welded seams for leak-proof operation and shall have a minimum 2" outlet discharge flange. A performance cut-off shall be furnished to prevent the recirculation of air in the fan housing. Bearing support shall be minimum 10 ga. welded steel. Lifting eyes 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 - All steel fan components shall be ***LORENIZED***™ with an electrostatically applied, baked polyester powder coating. Each component shall be subject to a five stage environmentally friendly wash system, followed by a minimum 2 mil thick baked powder finish. Paint must exceed 1,000 hour salt spray under ASTM B117 test method.

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

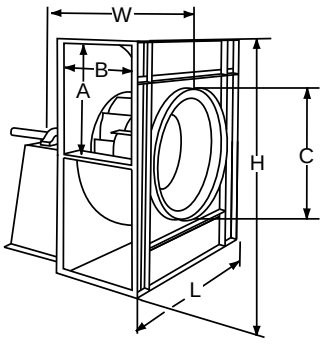
Motor - Motor shall be Nema design B with class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

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

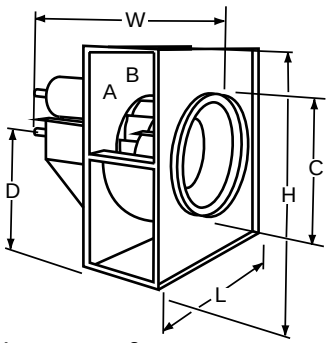
Bearings - Bearings shall be designed and tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball or roller type in a cast iron pillow block housing and selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

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 percent of the installed motor horsepower. The variable pitch motor drive must be factory set to the specified fan RPM.

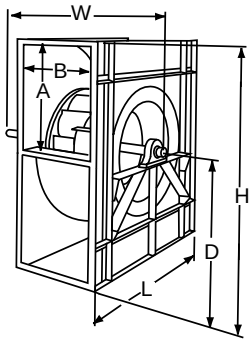
Product - Fan shall be model CA-4 SWSI as manufactured by Loren Cook Company of Springfield, Missouri.



Arrangement 1



Arrangement 2



Arrangement 3

CA-4 SWSI Dimension Data Arrangement 1

Size	A-I.D.	B-I.D.	C-O.D.	D			H		L		W	Approx. Ship. Wt. - Lbs.*
				THD/DBD	UBD	BHD	THD/BHD	DBD/UBD	THD/BHD	DBD/UBD		
120	13-1/8	9-3/16	16-1/4	10-3/4	12-3/8	15	25-3/4	22-3/4	22-3/4	25-3/4	34-13/16	226
135	14-3/4	10-5/16	17-3/4	12	13-7/8	16-3/4	28-3/4	25-1/2	25-1/2	28-3/4	35-15/16	285
150	16-7/16	11-7/16	19-1/4	13-1/4	15-1/4	18-3/8	31-5/8	28-1/8	28-1/8	31-5/8	37-1/16	348
165	18-1/16	12-5/8	21-1/4	14-3/8	16-5/8	20	34-3/8	30-7/8	30-7/8	34-3/8	38-1/4	415
180	19-11/16	13-3/4	22-3/4	15-5/8	18-1/8	21-1/2	37-1/8	33-5/8	33-5/8	37-1/8	42-1/8	485
195	21-5/16	14-15/16	24-1/4	16-3/4	19-1/2	23-1/4	40	36-1/4	36-1/4	40	43-5/16	560
210	23	16-1/16	26	18	21	24-7/8	42-7/8	39-1/8	39-1/8	42-7/8	46-7/16	638
225	24-5/8	17-3/16	27-1/2	19-1/4	22-3/8	26-1/2	45-3/4	41-3/4	41-3/4	45-3/4	47-9/16	721
245	26-13/16	18-3/4	29-1/2	20-7/8	24-1/4	28-5/8	49-1/2	45-3/8	45-3/8	49-1/2	50-9/16	837
270	29-9/16	20-5/8	32	23-3/8	26-5/8	31-3/8	54-3/4	49-7/8	49-7/8	54-3/4	52-7/16	992
300	32-13/16	22-15/16	35	25-3/8	29-1/2	34-5/8	60	55-3/8	55-3/8	60	57-11/16	1192
330	36-1/8	25-1/4	38	27-7/8	32-3/8	37-7/8	65-3/4	60-3/4	60-3/4	65-3/4	60	1408
365	39-15/16	27-7/8	41-1/2	30-5/8	35-5/8	41-3/4	72-3/8	67	67	72-3/8	64-7/8	1680
402	44-1/16	30-3/4	45-1/4	33-5/8	39-1/4	46-3/4	80-3/8	73-7/8	73-7/8	80-3/8	68-1/16	1990
445	48-11/16	34	49-1/2	37-1/8	43-1/4	51-3/8	88-1/2	81-1/2	81-1/2	88-1/2	73-1/16	2381
490	53-5/8	37-7/16	55	40-3/4	47-1/2	56-1/4	97	89-3/4	89-3/4	97	76-1/2	2824
540	59-1/16	41-1/4	60	44-7/8	52-1/4	61-3/4	106-5/8	98-3/4	98-3/4	106-5/8	81-5/8	3359
600	65-5/8	45-13/16	66	49-3/4	58	68-1/4	118	109-5/8	109-5/8	118	86-3/16	4057

* Class I only. For Class II add 10%. For Class III add 20%.

CA-4 SWSI Dimension Data Arrangement 2

Size	A-I.D.	B-I.D.	C-O.D.	D				H		L		W	Max Motor Frame**	Approx. Ship. Wt. - Lbs.*
				THD	UBD	BHD	DBD	THD/BHD	UBD/DBD	THD/BHD	UBD/DBD			
120	13-1/8	9-3/16	16-1/4	10-3/4	12-3/8	15	10-3/8	25-3/4	22-3/4	22-3/4	25-3/4	34-13/16	145T	226
135	14-3/4	10-5/16	17-3/4	12	13-7/8	16-3/4	11-5/8	28-3/4	25-1/2	25-1/2	28-3/4	35-15/16	145T	285
150	16-7/16	11-7/16	19-1/4	13-1/4	15-1/4	18-3/8	12-7/8	31-5/8	28-1/8	28-1/8	31-5/8	37-1/16	182T	348
165	18-1/16	12-5/8	21-1/4	14-3/8	16-5/8	20	14-1/4	34-3/8	30-7/8	30-7/8	34-3/8	38-1/4	182T	415
180	19-11/16	13-3/4	22-3/4	15-5/8	18-1/8	21-1/2	15-1/2	37-1/8	33-5/8	33-5/8	37-1/8	42-1/8	184T	485
195	21-5/16	14-15/16	24-1/4	16-3/4	19-1/2	23-1/4	16-3/4	40	36-1/4	36-1/4	40	43-5/16	184T	560
210	23	16-1/16	26	18	21	24-7/8	18-1/8	42-7/8	39-1/8	39-1/8	42-7/8	47-7/16	184T	638
225	24-5/8	17-3/16	27-1/2	19-1/4	22-3/8	26-1/2	19-3/8	45-3/4	41-3/4	41-3/4	45-3/4	48-9/16	213T	721
245	26-13/16	18-3/4	29-1/2	20-7/8	24-1/4	28-5/8	21-1/8	49-1/2	45-3/8	45-3/8	49-1/2	50-9/16	213T	837
270	29-9/16	20-5/8	32	23-3/8	26-5/8	31-3/8	23-1/4	54-3/4	49-7/8	49-7/8	54-3/4	52-7/16	215T	992
300	32-13/16	22-15/16	35	25-3/8	29-1/2	34-5/8	25-7/8	60	55-38	55-3/8	60	57-11/16	254T	1192
330	36-1/8	25-1/4	38	27-7/8	32-3/8	37-7/8	28-3/8	65-3/4	60-3/4	60-3/4	65-3/4	60	254T	1408
365	39-15/16	27-7/8	41-1/2	30-5/8	35-5/8	41-3/4	31-3/8	72-3/8	67	67	72-3/8	64-7/8	256T	1680
402	44-1/16	30-3/4	45-1/4	33-5/8	39-1/4	46-3/4	34-5/8	80-3/8	73-7/8	73-7/8	80-3/8	68-1/16	256T	1990
445	48-11/16	34	49-1/2	37-1/8	43-1/4	51-3/8	38-1/4	88-1/2	81-1/2	81-1/2	88-1/2	73-1/16	286T	2381
490	53-5/8	37-7/16	55	40-3/4	47-1/2	56-1/4	42-1/4	97	89-3/4	89-3/4	97	76-1/2	286T	2824
540	59-1/16	41-1/4	60	44-7/8	52-1/4	61-3/4	46-1/2	106-5/8	98-3/4	98-3/4	106-5/8	81-5/8	324T	3359
600	65-5/8	45-13/16	66	49-3/4	58	68-1/4	51-5/8	118	109-5/8	109-5/8	118	86-3/16	324T	4057

* Class I only.

**Max Motor Frame is based on ODP single speed motor.

CA-4 SWSI Dimension Data Arrangement 3

Size	A-I.D.	B-I.D.	D				H		L		W	Approx. Ship. Wt. - Lbs.*
			THD	UBD	BHD	DBD	THD/BHD	UBD/DBD	THD/BHD	UBD/DBD		
120	13-1/8	9-3/16	10-3/4	12-3/8	15	10-3/8	25-3/4	22-3/4	22-3/4	25-3/4	18-7/8	169
135	14-3/4	10-5/16	12	13-7/8	16-3/4	11-5/8	28-3/4	25-1/2	25-1/2	28-3/4	20	210
150	16-7/16	11-7/16	13-1/4	15-1/4	18-3/8	12-7/8	31-5/8	28-1/8	28-1/8	31-5/8	21-1/8	254
165	18-1/16	12-5/8	14-3/8	16-5/8	20	14-1/4	34-3/8	30-7/8	30-7/8	34-3/8	23-15/16	302
180	19-11/16	13-3/4	15-5/8	18-1/8	21-1/2	15-1/2	37-1/8	33-5/8	33-5/8	37-1/8	24-15/16	354
195	21-5/16	14-15/16	16-3/4	19-1/2	23-1/4	16-3/4	40	36-1/4	36-1/4	40	27-3/16	409
210	23	16-1/16	18	21	24-7/8	18-1/8	42-7/8	39-1/8	39-1/8	42-7/8	28-13/16	468
225	24-5/8	17-3/16	19-1/4	22-3/8	26-1/2	19-3/8	45-3/4	41-3/4	41-3/4	45-3/4	29-15/16	531
245	26-13/16	18-3/4	20-7/8	24-1/4	28-5/8	21-1/8	49-1/2	45-3/8	45-3/8	49-1/2	32	620
270	29-9/16	20-5/8	23-3/8	26-5/8	31-3/8	23-1/4	54-3/4	49-7/8	49-7/8	54-3/4	34-3/8	739
300	32-13/16	22-15/16	25-3/8	29-1/2	34-5/8	25-7/8	60	55-38	55-3/8	60	37-3/16	896
330	36-1/8	25-1/4	27-7/8	32-3/8	37-7/8	28-3/8	65-3/4	60-3/4	60-3/4	65-3/4	40	1065
365	39-15/16	27-7/8	30-5/8	35-5/8	41-3/4	31-3/8	72-3/8	67	67	72-3/8	43-1/8	1279
402	44-1/16	30-3/4	33-5/8	39-1/4	46-3/4	34-5/8	80-3/8	73-7/8	73-7/8	80-3/8	46-5/8	1525
445	48-11/16	34	37-1/8	43-1/4	51-3/8	38-1/4	88-1/2	81-1/2	81-1/2	88-1/2	50-3/8	1834
490	53-5/8	37-7/16	40-3/4	47-1/2	56-1/4	42-1/4	97	89-3/4	89-3/4	97	55-5/16	2186
540	59-1/16	41-1/4	44-7/8	52-1/4	61-3/4	46-1/2	106-5/8	98-3/4	98-3/4	106-5/8	61-5/8	2608
600	65-5/8	45-13/16	49-3/4	58	68-1/4	51-5/8	118	109-5/8	109-5/8	118	66-11/16	3159

* Class I only. For Class II add 10%. For Class III add 20%.

Airfoil Centrifugal Blower Backward Inclined Belt Drive Double Width, Double Inlet

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

Type CA DWDI is furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.

Description - Fan shall be a double width, double inlet backward inclined airfoil blade steel wheel, belt driven centrifugal blower.

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

Construction - The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper and scroll side panels shall be a minimum 12 gauge steel. The entire fan housing shall have continuously welded seams for leak-proof operation and shall have a minimum 1-1/2" outlet discharge flange. A performance cut-off shall be furnished to prevent the recirculation of air in the fan housing. Bearing support shall be minimum 1/4" steel. 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 - All steel fan components shall be ***LORENIZED***™ with an electrostatically applied, baked polyester powder coating. Each component shall be subject to a five stage environmentally friendly wash system, followed by a minimum 2 mil thick baked powder finish. Paint must exceed 1,000 hour salt spray under ASTM B117 test method.

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

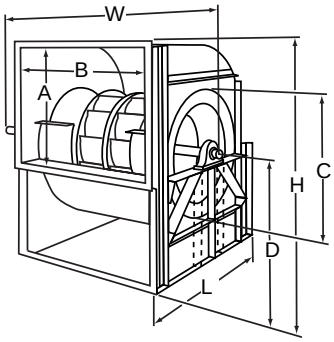
Motor - Motor shall be Nema design B with class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

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

Bearings - Bearings shall be designed and tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball or roller type in a cast iron pillow block housing and 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 percent of the installed motor horsepower. The variable pitch motor drive must be factory set to the specified fan RPM.

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



Arrangement 3

CA DWDI Dimension Data Arrangement 3

Size	A-I.D.	B-I.D.	D			H			
			THD UBD	BHD	DBD	THD	UBD	BHD	DBD
120	12-1/8	17-11/16	13	16	13	27-9/16	23-3/8	25-3/4	24-3/8
135	13-5/8	19-15/16	14	17	14	30-3/16	25-5/8	28	25-9/16
150	15-1/4	22	15	19	15	32-13/16	27-15/16	31-3/16	29-1/4
165	16-15/16	24	17	21	17	36-7/16	31-1/4	34-3/8	32-5/8
180	18-1/2	26-1/16	18	22	18	39-1/16	33-1/2	36-5/8	35-1/8
195	19-1/2	28-7/16	20	24	20	42-11/16	36-13/16	39-13/16	38-1/2
210	21-5/8	30-3/8	21	26	21	45-3/8	39-1/8	43-1/16	40-15/16
225	23-3/16	32-1/2	23	28	23	49	42-3/8	46-1/4	44-3/8
245	25-1/2	35-1/16	25	30	25	53-1/8	46-1/8	49-7/8	48-1/4
270	27-1/2	39-7/16	27	33	27	57-7/8	50-1/4	54-15/16	50-1/8
300	31-3/16	43	30	36	30	64-1/8	55-7/8	60-3/8	58-1/2
330	34-1/2	47-1/16	33	39	33	70-7/8	61-3/8	65-13/16	64-3/8
365	38-11/16	52-3/16	36	43	36	77-3/4	67-7/16	72-5/8	70-5/8
402	41-3/4	57-13/16	40	47	40	85-3/4	74-11/16	79-5/8	78-1/4
445	45-15/16	64-1/4	44	52	44	94-5/8	82-5/16	88-1/8	86-1/4
490	51	70-1/8	48	57	48	103-1/4	90-3/16	96-3/4	94-1/2
540	55-3/4	77-15/16	53	62	53	113-3/4	99-1/2	105-13/16	104-1/4
600	62-3/16	86-1/4	59	69	59	126-1/4	110-11/16	117-11/16	116
660	68-7/16	94-7/8	65	75	65	138-3/4	121-7/8	128-9/16	121-5/8
730	75-13/16	104-3/4	72	83	72	153-3/8	134-7/8	142-1/4	141-5/16

Size	L		W			Approx. Ship. Wt. - Lbs.		
	THD BHD	DBD UBD	Class I	Class II	Class III	Class I	Class II	Class III
120	24-1/2	25-3/4	28-11/16	29-7/16	29-15/16	252	277	302
135	27	28-3/4	30-15/16	31-11/16	32-11/16	346	380	415
150	29	31-5/8	34-1/4	34-3/4	35-1/2	444	488	532
165	31-1/2	34-3/8	36-1/4	36-3/4	37-1/2	546	600	655
180	33-3/4	37-1/8	38-13/16	39-5/16	40-1/16	652	717	782
195	36-1/4	40	42-11/16	42-3/16	42-15/16	762	839	915
210	41	42-7/8	44-1/8	44-5/8	45-3/8	877	965	1053
225	43	45-3/4	46-1/4	47	47-1/2	996	1096	1195
245	46	49-1/2	49-13/16	50-1/16	50-11/16	1161	1277	1393
270	50	54-3/4	54-3/16	54-15/16	55-1/16	1378	1515	1653
300	55-3/8	60	58-1/2	59	59-3/8	1653	1818	1984
330	60-3/4	65-3/4	63-9/16	63-11/16	63-15/16	1945	2140	2334
365	67	72-3/8	69-5/16	69-9/16	70-1/16	2307	2538	2769
402	73-7/8	80-3/8	75-11/16	75-11/16	76-3/16	2715	2986	3258
445	81-1/2	88-1/2	82-5/8	83-1/2	83-1/2	3220	3543	3865
490	89-3/4	97	89-1/2	90-3/8	90-5/8	3787	4165	4544
540	98-3/4	106-5/8	98-5/16	99-15/16	100-3/16	4460	4906	5352
600	109-5/8	118	107-1/2	108-3/4	110-3/4	5329	5862	6395
660	120-5/8	129-3/8	117-7/8	118-5/8	119-7/8	6265	6892	7518
730	133-1/4	142-5/8	129-1/4	130-3/4	131-1/4	7442	8186	8930

Airfoil Centrifugal Blower Backward Inclined Belt Drive Double Width, Double Inlet

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

Type CAF-DW is furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.

Description - Fan shall be a double width, double inlet backward inclined airfoil, belt driven centrifugal blower.

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

Construction - The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper and scroll side panels shall be a minimum 16 gauge steel. The entire fan housing shall have continuously welded seams for leak-proof operation and shall have a minimum 1" outlet discharge flange. A performance cut-off shall be furnished to prevent the recirculation of air in the fan housing. Bearing support shall be minimum 12 gauge steel. 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, non-overloading, centrifugal backward inclined, airfoil type. Blades on all sizes shall be continuously welded to the backplate and deep spun inlet shrouds. All sizes shall be keyed and securely attached to the fan shaft. Wheel shall overlap aerodynamic aluminum inlet cones to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

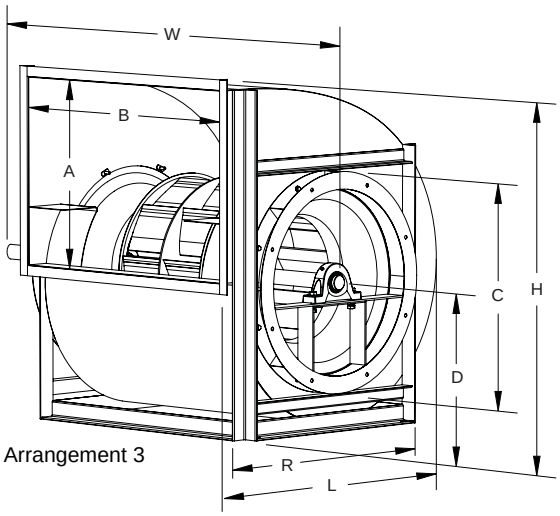
Motor - Motor shall be Nema design B with class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

Blower Sh aft - 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 percent of maximum RPM.

Bearings - Bearings shall be designed and tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball or roller type in a cast iron pillow block housing and 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 percent of the installed motor horsepower. The variable pitch motor drive must be factory set to the specified fan RPM.

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



Arrangement 3

CAF-DW Dimension Data Arrangement 3

Size	A	B	C	D						H							
				THD	UBD	BHD			DBD	THD			UBD	BHD			DBD
				I-III	I-III	I	II	III	I-III	I	II	III	I-III	I	II	III	I-III
120	12-1/8	17-11/16	16-1/8	10-3/16	11-7/16	14-3/4	14-3/4	15-3/4	9-5/8	23-15/16	23-15/16	23-15/16	21-1/16	24	24	25	20-1/16
135	13-5/8	19-15/16	17-7/8	11-5/16	12-3/4	16-5/16	16-7/16	17-3/8	10-13/16	26-11/16	26-11/16	26-11/16	23-9/16	26-11/16	26-13/16	27-3/4	22-9/16
150	15-1/4	22	19-3/8	12-7/16	14-1/16	17-15/16	17-15/16	18-15/16	12	29-3/8	29-3/8	29-3/8	26-1/16	29-7/16	29-7/16	30-7/16	25-1/16
165	16-15/16	24	21-1/8	13-9/16	15-3/8	19-1/2	19-1/2	20-1/2	13-1/8	32-1/16	32-1/16	32-1/16	28-1/2	32-3/16	32-3/16	33-3/16	27-1/2
180	18-1/2	26-1/16	22-5/8	14-3/4	16-11/16	21-1/8	21-1/8	22-1/8	14-5/16	34-7/8	34-7/8	34-15/16	31	34-15/16	34-15/16	35-15/16	30
195	19-1/2	28-7/16	24-3/8	15-7/8	17-15/16	22-3/4	22-3/4	23-11/16	15-1/2	37-5/8	37-5/8	38-9/16	33-7/16	37-11/16	37-11/16	38-5/8	32-7/16
210	21-5/8	30-3/8	25-7/8	17	19-1/4	24-3/8	24-3/8	25-5/16	16-11/16	40-3/8	40-3/8	41-5/16	35-15/16	40-1/2	40-7/16	41-7/16	34-15/16
225	23-3/16	32-1/2	27-5/8	18-3/16	20-9/16	26-7/16	26-7/16	26-7/8	17-13/16	43-5/8	43-5/8	44-1/8	38-3/8	43-11/16	43-11/16	44-1/8	37-3/8
245	25-1/2	35-1/16	29-5/8	19-11/16	22-5/16	28-9/16	28-9/16	30	19-3/8	47-1/4	47-1/4	47-3/4	41-11/16	47-5/16	47-5/16	48-3/4	40-11/16
270	27-1/2	39-7/16	32-3/8	21-5/8	24-1/2	31-3/16	31-3/16	32-5/8	21-5/16	51-13/16	51-13/16	52-5/16	45-13/16	51-7/8	51-7/8	53-5/16	44-13/16
300	31-3/16	43	35-3/8	23-7/8	27-1/16	34-3/8	34-3/8	35-13/16	23-11/16	57-1/4	57-1/4	57-3/4	50-3/4	57-5/16	57-5/16	58-3/4	49-3/4
330	34-1/2	47-1/16	38-5/8	26-3/16	29-11/16	38-1/16	38-1/16	40	26-1/16	63-1/4	63-1/4	63-1/4	55-11/16	63-5/16	63-5/16	65-1/4	54-11/16
365	38-11/16	52-3/16	42-3/8	28-7/8	32-3/4	41-13/16	41-13/16	43-3/4	28-3/4	69-5/8	69-5/8	70-3/16	61-1/2	69-11/16	69-11/16	71-11/16	60-1/2
402	41-3/4	57-13/16	46-3/8	31-11/16	35-15/16	46-5/8	46-5/8	48-5/8	31-5/8	76-3/8	76-3/8	76-7/8	67-9/16	77-3/8	77-3/8	79-7/16	66-5/8
445	45-15/16	64-1/4	50-5/8	34-15/16	39-11/16	51-3/16	51-3/16	53-1/4	35	84-3/16	84-3/16	84-3/4	74-11/16	85-1/4	85-1/4	87-5/16	73-11/16
490	51	70-1/8	55-3/8	38-3/8	43-9/16	55-15/16	56-15/16	60	38-9/16	92-3/8	92-3/8	92-15/16	82-1/8	93-7/16	94-7/16	97-1/2	81-1/8
540	55-3/4	77-15/16	60-3/8	42-5/16	47-15/16	61-1/4	62-5/16	65-5/16	42-7/16	101-5/8	102-3/16	102-3/16	90-3/8	102-9/16	103-11/16	106-11/16	89-3/8
600	62-3/16	86-1/4	66-3/8	47	53-3/16	68-5/8	69-5/8	71-11/16	47-1/8	112-11/16	113-3/16	113-1/4	100-5/16	114-9/16	115-9/16	117-5/8	99-5/16
660	68-7/16	94-7/8	72-3/8	51-11/16	58-3/8	76	76	-	51-13/16	123-3/4	124-1/4	-	110-3/16	126-1/2	126-1/2	-	109-3/16
730	75-13/16	104-3/4	79-3/8	57-3/16	64-7/16	83-3/8	83-7/16	-	57-5/16	137-1/8	137-3/16	-	121-11/16	139-3/16	139-5/16	-	120-3/4

Size	L									R					
	THD/BHD			UBD			DBD			THD/UBD/BHD			DBD		
	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
120	20-1/16	20-1/16	20-1/16	23-1/16	23-1/16	23	23-3/8	23-3/8	23-5/16	19-1/4	19-1/4	19-1/16	23-3/8	23-3/8	23-5/16
135	22-9/16	22-9/16	22-9/16	25-3/4	25-3/4	25-3/4	25-7/8	25-7/8	25-3/4	21	21	20-3/4	25-7/8	25-7/8	25-3/4
150	25-1/16	25-1/16	25-1/16	28-7/16	28-7/16	28-7/16	28-7/16	28-11/16	28-7/16	22-1/2	23-1/2	22-1/4	28-3/16	28-11/16	28-1/8
165	27-1/2	27-1/2	27-1/2	31-3/16	31-3/16	31-3/16	31-3/16	31-3/16	31-3/16	24-1/4	25-1/4	24	30-5/8	31-5/8	30-9/16
180	30	30	30	34	34	33-15/16	33-15/16	33-15/16	33-15/16	26-3/4	26-3/4	25-1/2	33-1/2	33-1/2	32-7/8
195	32-7/16	32-7/16	32-7/16	36-11/16	36-11/16	37-11/16	36-5/8	36-5/8	37-11/16	28-1/2	28-1/2	27-1/4	35-15/16	35-15/16	36-3/8
210	34-15/16	34-15/16	34-15/16	39-7/16	39-7/16	40-3/8	39-3/8	39-3/8	40-3/8	30	30	28-3/4	38-5/16	38-5/16	38-11/16
225	37-3/8	37-3/8	37-7/16	42-11/16	42-11/16	43-3/16	42-5/8	42-5/8	43-1/8	31-3/4	31-3/4	30-1/2	41-1/4	41-1/4	41-3/16
245	40-11/16	40-11/16	40-11/16	46-5/16	46-5/16	46-13/16	46-1/4	46-1/4	46-3/4	33-3/4	33-3/4	32-15/16	44-3/8	44-3/8	44-7/16
270	44-13/16	44-13/16	44-13/16	50-7/8	50-7/8	51-3/8	50-13/16	50-13/16	51-5/16	37-1/2	37-1/2	35-11/16	48-7/8	48-7/8	48-1/2
300	49-3/4	49-3/4	49-3/4	56-5/16	56-5/16	56-7/8	56-1/4	56-1/4	56-13/16	40-1/2	40-1/2	38-11/16	53-9/16	53-9/16	53-3/16
330	54-11/16	54-11/16	54-3/4	62-5/16	62-5/16	62-3/8	62-1/4	62-1/4	62-5/16	41-9/16	41-9/16	42-1/4	57-13/16	57-13/16	58-3/16
365	60-1/2	60-1/2	60-1/2	68-11/16	68-11/16	69-1/4	68-5/8	68-5/8	69-3/16	45-5/16	45-5/16	46	63-3/8	63-3/8	64-1/4
402	66-9/16	66-5/8	66-5/8	75-7/16	75-1/2	76	75-3/8	75-7/16	75-15/16	49-11/16	49-11/16	50-9/16	69-7/16	69-1/2	70-7/16
445	73-11/16	73-11/16	73-3/4	83-5/16	83-5/16	83-7/8	83-1/4	83-1/4	83-13/16	53-15/16	53-15/16	54-13/16	76-3/16	76-3/16	77-1/8
490	81-1/8	81-1/8	81-1/8	91-1/2	91-1/2	92-1/16	91-7/16	91-7/16	92	58-11/16	59	60	83-5/16	83-7/16	84-1/2
540	89-3/8	89-3/8	89-7/16	100-5/8	101-3/16	101-1/4	100-9/16	101-1/8	101-3/16	63-11/16	64	65	91-1/16	91-13/16	92-5/16
600	99-5/16	99-5/16	99-5/16	111-5/8	112-1/8	112-3/16	111-9/16	112-1/6	112-1/8	70	70-9/16	71	100-5/8	101-7/16	101-11/16
660	109-3/16	109-3/16	-	122-9/16	123-1/16	-	122-1/2	123	-	76-9/16	76-9/16	-	110-1/4	110-3/4	-
730	120-11/16	120-3/4	-	135-13/16	135-7/8	-	135-3/4	135-13/16	-	83-9/16	83-9/16	-	121-11/16	121-3/4	-

Size	W			Approx. Ship. Weights		
	I	II	III	I	II	III
120	26-11/16	28-3/16	31-7/16	182	199	263
135	28-15/16	30-9/16	33-11/16	204	223	311
150	31-5/8	33-1/8	35-3/4	246	277	346
165	33-11/16	35-3/16	38-5/16	293	313	391
180	36-1/8	37-1/4	40-3/8	335	333	400
195	38-1/2	39-5/8	42-3/4	367	399	511
210	41-7/16	42-7/16	45-3/16	403	447	560
225	44-1/16	44-9/16	47-5/16	495	544	626
245	46-5/8	47-1/4	50-13/16	547	615	741
270	51-1/2	51-5/8	55-5/16	663	720	956
300	55-1/8	56-1/8	58-7/8	820	916	1043
330	59-5/16	60-5/16	64	948	1108	1336
365	65-5/16	65-15/16	70-1/8	1148	1329	1680
402	71-15/16	73	80-3/4	1453	1839	2280
445	79-5/16	79-11/16	87-1/4	1879	2119	2853
490	85-5/16	87-15/16	98-1/2	2238	2486	3469
540	93-1/2	98-11/16	110-11/16	2492	3431	4729
600	102-7/8	108	118-5/8	3501	4147	5642
660	117-1/8	116-5/8	-	4528	4962	-
730	127	126-3/4	-	5548	6737	-

Airfoil Centrifugal Blower Backward Inclined Belt Drive Double Width, Double Inlet

Loren Cook Company certifies that the CA-4 DWDI shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Type CA-4 DWDI is furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.

Description - Fan shall be a rectangular, double width, double inlet backward inclined airfoil blade steel wheel, belt driven centrifugal blower.

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

Construction - The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper and scroll side panels shall be a minimum 12 gauge steel. The entire fan housing shall have continuously welded seams for leak-proof operation and shall have a minimum 2" outlet discharge flange. A performance cut-off shall be furnished to prevent the recirculation of air in the fan housing. Bearing support shall be minimum 1/4" steel. Lifting eyes 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 - All steel fan components shall be ***LORENIZED***™ with an electrostatically applied, baked polyester powder coating. Each component shall be subject to a five stage environmentally friendly wash system, followed by a minimum 2 mil thick baked powder finish. Paint must exceed 1,000 hour salt spray under ASTM B117 test method.

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

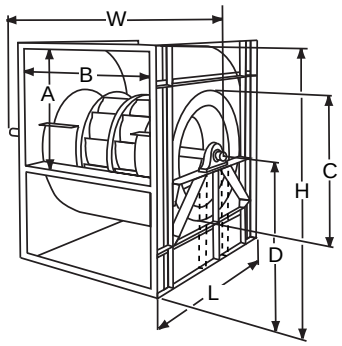
Motor - Motor shall be Nema design B with class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

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

Bearings - Bearings shall be designed and tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball or roller type in a cast iron pillow block housing and 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 percent of the installed motor horsepower. The variable pitch motor drive must be factory set to the specified fan RPM.

Product - Fan shall be model CA-4 DWDI as manufactured by Loren Cook Company of Springfield, Missouri.



Arrangement 3

CA-4 DWDI Dimension Data Arrangement 3

Size	A-I.D.	B-I.D.	D				H	
			THD	UBD	BHD	DBD	THD BHD	UBD DBD
120	12-1/8	17-11/16	10-3/4	12-3/8	15	10-3/8	25-15/16	22-3/4
135	13-5/8	19-15/16	12	13-7/8	16-3/4	11-5/8	28-13/16	25-1/2
150	15-1/4	22	13-1/4	15-1/4	18-3/8	12-7/8	31-11/16	28-1/8
165	16-15/16	24	14-3/8	16-5/8	20	14-1/4	34-7/16	30-7/8
180	18-1/2	26-1/16	15-5/8	18-1/8	21-1/2	15-1/2	37-5/16	33-5/8
195	19-1/2	28-7/16	16-3/4	19-1/2	23-1/4	16-3/4	40-1/16	36-1/4
210	21-5/8	30-3/8	18	21	24-7/8	18-1/8	42-15/16	39-1/8
225	23-3/16	32-1/2	19-1/4	22-3/8	26-1/2	19-3/8	45-13/16	41-3/4
245	25-1/2	35-1/16	20-7/8	24-1/4	28-5/8	21-1/8	49-5/8	45-3/8
270	27-1/2	39-7/16	23-3/8	26-5/8	31-3/8	23-1/4	54-7/8	49-7/8
300	31-3/16	43	25-3/8	29-1/2	34-5/8	25-7/8	60-1/8	55-3/8
330	34-1/2	47-1/16	27-7/8	32-3/8	37-7/8	28-3/8	65-15/16	60-3/4
365	38-11/16	52-3/16	30-5/8	35-5/8	41-3/4	31-3/8	72-1/2	67
402	41-3/4	57-13/16	33-5/8	39-1/4	46-3/4	34-5/8	80-9/16	73-7/8
445	45-15/16	64-1/4	37-1/8	43-1/4	51-3/8	38-1/4	88-11/16	81-1/2
490	51	70-1/8	40-3/4	47-1/2	56-1/4	42-1/4	97-3/16	89-3/4
540	55-3/4	77-15/16	44-7/8	52-1/4	61-3/4	46-1/2	106-3/4	98-3/94
600	62-3/16	86-1/4	49-3/4	58	68-1/4	51-5/8	118-1/8	109-5/8

Size	L		W			Approx. Ship. Wt. - Lbs.		
	THD BHD	DBD UBD	Class I	Class II	Class III	Class I	Class II	Class III
120	22-3/4	25-15/16	28-11/16	29-7/16	29-15/16	265	291	318
135	25-1/2	28-13/16	30-15/16	31-11/16	32-11/16	363	399	436
150	28-1/8	31-11/16	34-1/4	34-3/4	35-1/2	466	512	559
165	30-7/8	34-7/16	36-1/4	36-3/4	37-1/2	573	630	688
180	33-5/8	37-5/16	38-13/16	39-5/16	40-1/16	685	753	822
195	36-1/4	40-1/16	41-11/16	42-3/16	42-15/16	801	881	961
210	39-1/8	42-15/16	44-1/8	44-5/8	45-3/8	921	1013	1105
225	41-3/4	45-13/16	46-1/4	47	47-1/2	1046	1150	1255
245	45-3/8	49-5/8	49-13/16	50-1/16	50-11/16	1219	1341	1463
270	49-7/8	54-7/8	54-3/16	54-15/16	55-1/16	1447	1591	1736
300	55-3/8	60-1/8	58-1/2	59	59-3/8	1736	1909	2083
330	60-3/4	65-15/16	63-9/16	63-11/16	63-15/16	2043	2247	2451
365	67	72-1/2	69-5/16	69-9/16	70-1/16	2423	2665	2907
402	73-7/8	80-9/16	75-11/16	75-11/16	76-3/16	2851	3136	3421
445	81-1/2	88-11/16	82-5/8	83-1/2	83-1/2	3382	3720	4058
490	89-3/4	97-3/16	89-1/2	90-3/8	90-5/8	3976	4373	4771
540	98-3/4	106-3/4	98-5/16	99-15/16	100-3/16	4683	5151	5619
600	109-5/8	118-1/8	107-1/2	108-3/4	110-3/4	5595	6155	6714

Flatblade Steel Centrifugal Blower Backward Inclined Belt Drive Single Width, Single Inlet

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

Type CF is furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ ZACT) when furnished with factory supplied motor.

Type CF is available with UL 762 and cUL 762 listing (Power Ventilator for Restaurant Exhaust Appliances/Y2HW).

Type CF is available with UL listing for "Power Ventilator for Smoke Control Systems."

Description - Fan shall be a single width, single inlet backward inclined flat blade steel wheel, belt driven centrifugal blower.

Certifications - Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA certified ratings seal for air performance.

Construction - The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper and scroll side panels shall be a minimum 12 gauge steel. The entire fan housing shall have continuously welded seams for leak-proof operation and shall have a minimum 1-1/2" outlet discharge flange. A performance cut-off shall be furnished to prevent the recirculation of air in the fan housing. Bearing support shall be minimum 10 ga. welded steel. Lifting eyes 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 - All steel fan components shall be ***LORENIZED***™ with an electrostatically applied, baked polyester powder coating. Each component shall be subject to a five stage environmentally friendly wash system, followed by a minimum 2 mil thick baked powder finish. Paint must exceed 1,000 hour salt spray under ASTM B117 test method.

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

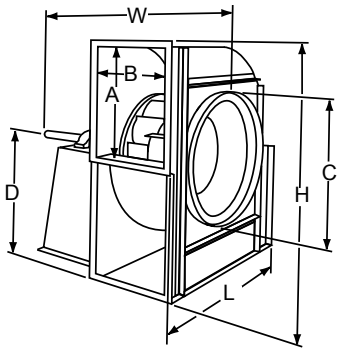
Motor - Motor shall be Nema design B with class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

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

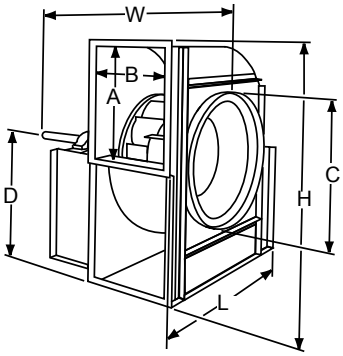
Blower Shaft - Blower shaft shall be AISI C-1045 hot rolled and accurately turned, ground and polished. Shafting shall be sized for a critical speed of at least 125 percent of maximum RPM.

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 percent of the installed motor horsepower. The variable pitch motor drive must be factory set to the specified fan RPM.

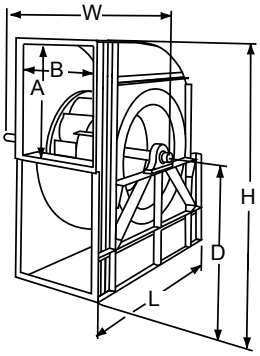
Product - Fan shall be model CF as manufactured by Loren Cook Company of Springfield, Missouri.



Arrangement 1 & 9



Arrangement 10



Arrangement 3

CF SWSI Dimension Data Arrangement 1, 9 & 10

Size	A-I.D.	B-I.D.	C-O.D.	D			H		
				THD DBD	UBD TAU	BHD BAU	THD	UBD	BHD
120	13-1/8	9-3/16	16-1/4	13		16	27-3/4	23-3/8	25-3/4
135	14-3/4	10-5/16	17-3/4	14		17	30-3/8	25-5/8	28
150	16-7/16	11-7/16	19-1/4	15		19	32-15/16	27-7/8	31-3/16
165	18-1/16	12-5/8	21-1/4	17		21	36-9/16	31-1/4	34-3/8
180	19-11/16	13-3/4	22-3/4	18		22	39-1/4	33-1/2	36-5/8
195	21-5/16	14-15/16	24-1/4	20		24	42-7/8	36-3/4	39-13/16
210	23	16-1/16	26	21		26	45-9/16	39-1/8	43-1/16
225	24-5/8	17-3/16	27-1/2	23		28	49-3/16	42-3/8	46-1/4
245	26-13/16	18-3/4	29-1/2	25		30	53-1/4	46-1/8	49-7/8
270	29-9/16	20-5/8	32	27		33	58	50-1/4	54-15/16
300	32-13/16	22-15/16	35	30		36	64-1/4	55-7/8	60-3/8
330	36-1/8	25-1/4	38	33		39	71	61-3/8	65-13/16
365	39-15/16	27-7/8	41-1/2	36		43	77-15/16	67-7/16	72-5/8
402	44-1/16	30-3/4	45-1/4	40		47	85-15/16	74-5/8	79-5/8
445	48-11/16	34	49-1/2	44		52	94-1/2	82-5/16	88-1/8
490	53-5/8	37-7/16	55	48		57	103-3/8	90-3/16	96-3/4
540	59-1/16	41-1/4	60	53		62	113-15/16	99-1/2	105-13/16
600	65-5/8	45-13/16	66	59		69	126-3/8	110-5/8	117-11/16
660	72-3/16	50-7/16	72	65		75	138-15/16	121-7/8	128-9/16
730	79-7/8	55-3/4	79	72		83	153-1/2	134-7/8	142-1/4

Size	H			L				W	Max Motor Frame Size**		Approx. Ship. Wt. - Lbs.*
	DBD	BAU	TAU	THD BHD	DBD UBD	BAU	TAU		Arr. 9	Arr. 10	
120	24-3/4	25	30-11/16	24-1/2	25-3/4	28-9/16	24	26-1/4	145T	56	211
135	25-9/16	27	33-3/4	27	28-3/4	32-3/4	27	27-3/8	145T	145T	266
150	29-1/4	30-1/8	36-13/16	29	31-5/8	35-13/16	29	30-1/2	184T	145T	325
165	32-5/8	33-1/4	40-7/8	31-1/2	34-3/8	39-15/16	32	32-5/8	184T	184T	387
180	35-1/8	35-3/8	43-15/16	33-3/4	37-1/8	42-15/16	35	36-1/4	215T	184T	453
195	38-1/2	38-3/8	48	36-1/4	40	46	37	37-1/2	215T	184T	523
210	40-15/16	41-5/8	51-1/8	41	42-7/8	50-1/8	40	41-1/8	256T	184T	599
225	44-3/8	44-3/4	55-1/8	43	45-3/4	53-3/16	42	42-1/4	256T	215T	677
245	48-1/4	48-1/8	59-7/8	46	49-1/2	57-7/8	46	46-1/4	286T	256T	786
270	50-1/8	53	65-3/8	50	54-3/4	63-3/8	50	48-5/8	286T	284T	931
300	58-1/2	58-1/4	72-1/2	55-3/8	60	70-1/2	56	53-1/2	326T	326T	1118
330	64-3/8	63-1/2	80	60-3/4	65-3/4	78	61	56-1/4	326T	365T	1320
365	70-5/8	70	87-7/8	67	72-3/8	85-7/8	67	63-1/4	326T	404T	1575
402	78-1/4	76-3/4	97	73-7/8	80-3/8	94	73	67-11/16	326T	404T	1858
445	86-1/4	85	106-13/16	81-1/2	88-1/2	103-13/16	81	75-7/16	326T	404T	2223
490	94-1/2	93-1/4	117	89-3/4	97	114	89	79-7/16	404T	404T	2636
540	104-1/4	101-7/8	128-15/16	98-3/4	106-5/8	124-15/16	97	87-11/16	404T	404T	3190
600	116	113-3/8	143-3/16	109-5/8	118	138-3/16	108	92-11/16	404T	404T	3852
660	121-5/8	123-3/4	158-1/2	120-5/8	129-3/8	152-1/2	119	101-15/16	404T	404T	4576
730	141-5/16	137	174-1/16	133-1/4	142-5/8	168-1/8	131	107-11/16	404T	404T	5495

* Class I only. For Class II add 10%. For Class III add 20%.

**Maximum motor frame for Arrangement 9 & 10; based on single speed ODP motor.

CF SWSI Dimension Data Arrangement 3

Size	A-I.D.	B-I.D.	D		H		L		W	Approx. Ship. Wt. - Lbs.*
			UBD, THD, DBD	BHD	THD BHD	UBD DBD	THD BHD	UBD DBD		
120	13-1/8	9-3/16	13	16	27-11/16	25-3/4	24-1/2	25-3/4	19-7/16	157
135	14-3/4	10-5/16	14	17	30-5/16	28-3/4	27	28-3/4	20-9/16	195
150	16-7/16	11-7/16	15	19	32-15/16	31-5/8	29	31-5/8	21-11/16	236
165	18-1/16	12-5/8	17	21	36-9/16	34-5/8	31-1/2	34-5/8	23-7/8	280
180	19-11/16	13-3/4	18	22	39-1/4	37-1/8	33-3/4	37-1/8	25-1/2	328
195	21-5/16	14-15/16	20	24	42-7/8	40	36-1/4	40	26-11/16	379
210	23	16-1/16	21	26	45-9/16	42-7/8	41	42-7/8	28-5/16	437
225	24-5/8	17-3/16	23	28	49-1/8	45-3/4	43	45-3/4	29-7/16	496
245	26-13/16	18-3/4	25	30	53-1/4	49-1/2	46	49-1/2	32-1/2	579
270	29-9/16	20-5/8	27	33	58	54-3/4	50	54-3/4	34-7/8	690
300	32-13/16	22-15/16	30	36	64-1/4	60	55-3/8	60	37-11/16	836
330	36-1/8	25-1/4	33	39	71	65-3/4	60-3/4	65-3/4	40-1/2	994
365	39-15/16	27-7/8	36	43	77-7/8	72-3/8	67	72-3/8	43-5/8	1193
402	44-1/16	30-3/4	40	47	85-15/16	80-3/8	73-7/8	80-3/8	47-1/8	1415
445	48-11/16	34	44	52	94-1/2	88-1/2	81-1/2	88-1/2	50-7/8	1702
490	53-5/8	37-7/16	48	57	103-3/8	97	89-3/4	97	55-13/16	2028
540	59-1/16	41-1/4	53	62	113-15/16	106-5/8	98-3/4	106-5/8	62-1/8	2475
600	65-5/8	45-13/16	59	69	126-3/8	118	109-5/8	118	67-5/16	2997
660	72-3/16	50-7/16	65	75	138-15/16	129-3/8	120-5/8	129-3/8	74-7/16	3565
730	79-7/8	55-3/4	72	83	153-1/2	142-5/8	133-1/4	142-5/8	80-1/4	4282

* Class I only. For Class II add 10%. For Class III add 20%.

Flatblade Steel Centrifugal Blower Backward Inclined Belt Drive Single Width, Single Inlet

Loren Cook Company certifies that the CF-4 shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

Type CF-4 is furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ ZACT) when furnished with factory supplied motor.

Type CF-4 is available with UL 762 and cUL 762 listing (Power Ventilator for Restaurant Exhaust Appliances/Y2HW).

Type CA SWSI is available with UL listing for "Power Ventilator for Smoke Control Systems."

Description - Fan shall be a rectangular single width, single inlet backward inclined flat blade steel wheel belt driven centrifugal blower.

Certifications - Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA certified ratings seal for air performance.

Construction - The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper and scroll side panels shall be a minimum 12 gauge steel. The entire fan housing shall have continuously welded seams for leakproof operation and shall have a minimum 2" outlet discharge flange. A performance cut-off shall be furnished to prevent the recirculation of air in the fan housing. Bearing support shall be minimum 10 ga. welded steel. Lifting eyes 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 - All steel fan components shall be ***LORENIZED***™ with an electrostatically applied, baked polyester powder coating. Each component shall be subject to a five stage environmentally friendly wash system, followed by a minimum 2 mil thick baked powder finish. Paint must exceed 1,000 hour salt spray under ASTM B117 test method.

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

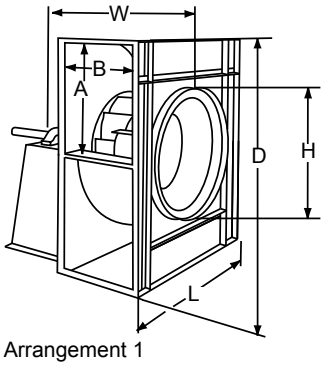
Motor - Motor shall be Nema design B with class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

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

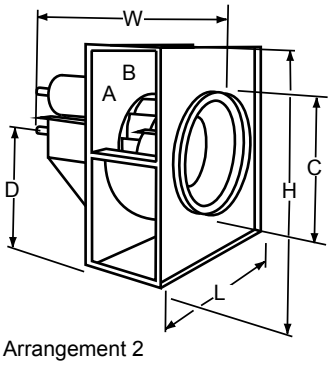
Bearings - Bearings shall be designed and tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball or roller type in a cast iron pillow block housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

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

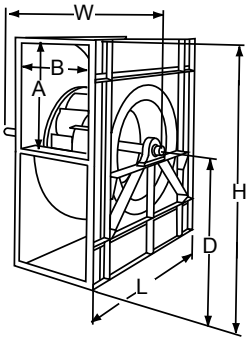
Product - Fan shall be model CF-4 as manufactured by Loren Cook Company of Springfield, Missouri.



Arrangement 1



Arrangement 2



Arrangement 3

CF-4 SWSI Dimension Data Arrangement 1

Size	A-I.D.	B-I.D.	C-O.D.	D			H		L		W	Approx. Ship. Wt. - Lbs.*
				THD/DBD	UBD	BHD	THD/BHD	DBD/UBD	THD/BHD	DBD/UBD		
120	13-1/8	9-3/16	16-1/4	10-3/4	12-3/8	15	25-3/4	22-3/4	22-3/4	25-3/4	34-13/16	222
135	14-3/4	10-5/16	17-3/4	12	13-7/8	16-3/4	28-3/4	25-1/2	25-1/2	28-3/4	35-15/16	280
150	16-7/16	11-7/16	19-1/4	13-1/4	15-1/4	18-3/8	31-5/8	28-1/8	28-1/8	31-5/8	37-1/16	341
165	18-1/16	12-5/8	21-1/4	14-3/8	16-5/8	20	34-3/8	30-7/8	30-7/8	34-3/8	38-1/4	407
180	19-11/16	13-3/4	22-3/4	15-5/8	18-1/8	21-1/2	37-1/8	33-5/8	33-5/8	37-1/8	42-1/8	476
195	21-5/16	14-15/16	24-1/4	16-3/4	19-1/2	23-1/4	40	36-1/4	36-1/4	40	43-5/16	549
210	23	16-1/16	26	18	21	24-7/8	42-7/8	39-1/8	39-1/8	42-7/8	46-7/16	630
225	24-5/8	17-3/16	27-1/2	19-1/4	22-3/8	26-1/2	45-3/4	41-3/4	41-3/4	45-3/4	47-9/16	711
245	26-13/16	18-3/4	29-1/2	20-7/8	24-1/4	28-5/8	49-1/2	45-3/8	45-3/8	49-1/2	50-9/16	825
270	29-9/16	20-5/8	32	23-3/8	26-5/8	31-3/8	54-3/4	49-7/8	49-7/8	54-3/4	52-7/16	978
300	32-13/16	22-15/16	35	25-3/8	29-1/2	34-5/8	60	55-3/8	55-3/8	60	57-11/16	1175
330	36-1/8	25-1/4	38	27-7/8	32-3/8	37-7/8	65-3/4	60-3/4	60-3/4	65-3/4	60	1387
365	39-15/16	27-7/8	41-1/2	30-5/8	35-5/8	41-3/4	72-3/8	67	67	72-3/8	64-7/8	1655
402	44-1/16	30-3/4	45-1/4	33-5/8	39-1/4	46-3/4	80-3/8	73-7/8	73-7/8	80-3/8	68-1/16	1953
445	48-11/16	34	49-1/2	37-1/8	43-1/4	51-3/8	88-1/2	81-1/2	81-1/2	88-1/2	73-1/16	2336
490	53-5/8	37-7/16	55	40-3/4	47-1/2	56-1/4	97	89-3/4	89-3/4	97	76-1/2	2771
540	59-1/16	41-1/4	60	44-7/8	52-1/4	61-3/4	106-5/8	98-3/4	98-3/4	106-5/8	81-5/8	3350
600	65-5/8	45-13/16	66	49-3/4	58	68-1/4	118	109-5/8	109-5/8	118	86-3/16	4045

* Class I only. For Class II add 10%. For Class III add 20%.

CF-4 SWSI Dimension Data Arrangement 2

Size	A-I.D.	B-I.D.	C-O.D.	D				H		L		W	Max Motor Frame**	Approx. Ship. Wt. - Lbs.*
				THD	UBD	BHD	DBD	THD/BHD	UBD/DBD	THD/BHD	UBD/DBD			
120	13-1/8	9-3/16	16-1/4	10-3/4	12-3/8	15	10-3/8	25-3/4	22-3/4	22-3/4	25-3/4	34-13/16	145T	222
135	14-3/4	10-5/16	17-3/4	12	13-7/8	16-3/4	11-5/8	28-3/4	25-1/2	25-1/2	28-3/4	35-15/16	145T	280
150	16-7/16	11-7/16	19-1/4	13-1/4	15-1/4	18-3/8	12-7/8	31-5/8	28-1/8	28-1/8	31-5/8	37-1/16	182T	341
165	18-1/16	12-5/8	21-1/4	14-3/8	16-5/8	20	14-1/4	34-3/8	30-7/8	30-7/8	34-3/8	38-1/4	182T	407
180	19-11/16	13-3/4	22-3/4	15-5/8	18-1/8	21-1/2	15-1/2	37-1/8	33-5/8	33-5/8	37-1/8	42-1/8	184T	476
195	21-5/16	14-15/16	24-1/4	16-3/4	19-1/2	23-1/4	16-3/4	40	36-1/4	36-1/4	40	43-5/16	184T	549
210	23	16-1/16	26	18	21	24-7/8	18-1/8	42-7/8	39-1/8	39-1/8	42-7/8	47-7/16	184T	630
225	24-5/8	17-3/16	27-1/2	19-1/4	22-3/8	26-1/2	19-3/8	45-3/4	41-3/4	41-3/4	45-3/4	48-9/16	213T	711
245	26-13/16	18-3/4	29-1/2	20-7/8	24-1/4	28-5/8	21-1/8	49-1/2	45-3/8	45-3/8	49-1/2	50-9/16	213T	825
270	29-9/16	20-5/8	32	23-3/8	26-5/8	31-3/8	23-1/4	54-3/4	49-7/8	49-7/8	54-3/4	52-7/16	215T	978
300	32-13/16	22-15/16	35	25-3/8	29-1/2	34-5/8	25-7/8	60	55-38	55-3/8	60	57-11/16	254T	1175
330	36-1/8	25-1/4	38	27-7/8	32-3/8	37-7/8	28-3/8	65-3/4	60-3/4	60-3/4	65-3/4	60	254T	1387
365	39-15/16	27-7/8	41-1/2	30-5/8	35-5/8	41-3/4	31-3/8	72-3/8	67	67	72-3/8	64-7/8	256T	1655
402	44-1/16	30-3/4	45-1/4	33-5/8	39-1/4	46-3/4	34-5/8	80-3/8	73-7/8	73-7/8	80-3/8	68-1/16	256T	1953
445	48-11/16	34	49-1/2	37-1/8	43-1/4	51-3/8	38-1/4	88-1/2	81-1/2	81-1/2	88-1/2	73-1/16	286T	2336
490	53-5/8	37-7/16	55	40-3/4	47-1/2	56-1/4	42-1/4	97	89-3/4	89-3/4	97	76-1/2	286T	2771
540	59-1/16	41-1/4	60	44-7/8	52-1/4	61-3/4	46-1/2	106-5/8	98-3/4	98-3/4	106-5/8	81-5/8	324T	3350
600	65-5/8	45-13/16	66	49-3/4	58	68-1/4	51-5/8	118	109-5/8	109-5/8	118	86-3/16	324T	4045

* Class I only.

**Max Motor Frame is based on ODP single speed motor.

CF-4 SWSI Dimension Data Arrangement 3

Size	A-I.D.	B-I.D.	D				H		L		W	Approx. Ship. Wt. - Lbs.*
			THD	UBD	BHD	DBD	THD/BHD	UBD/DBD	THD/BHD	UBD/DBD		
120	13-1/8	9-3/16	10-3/4	12-3/8	15	10-3/8	25-3/4	22-3/4	22-3/4	25-3/4	18-7/8	165
135	14-3/4	10-5/16	12	13-7/8	16-3/4	11-5/8	28-3/4	25-1/2	25-1/2	28-3/4	20	205
150	16-7/16	11-7/16	13-1/4	15-1/4	18-3/8	12-7/8	31-5/8	28-1/8	28-1/8	31-5/8	21-1/8	248
165	18-1/16	12-5/8	14-3/8	16-5/8	20	14-1/4	34-3/8	30-7/8	30-7/8	34-3/8	23-15/16	294
180	19-11/16	13-3/4	15-5/8	18-1/8	21-1/2	15-1/2	37-1/8	33-5/8	33-5/8	37-1/8	24-15/16	345
195	21-5/16	14-15/16	16-3/4	19-1/2	23-1/4	16-3/4	40	36-1/4	36-1/4	40	27-3/16	399
210	23	16-1/16	18	21	24-7/8	18-1/8	42-7/8	39-1/8	39-1/8	42-7/8	28-13/16	460
225	24-5/8	17-3/16	19-1/4	22-3/8	26-1/2	19-3/8	45-3/4	41-3/4	41-3/4	45-3/4	29-15/16	521
245	26-13/16	18-3/4	20-7/8	24-1/4	28-5/8	21-1/8	49-1/2	45-3/8	45-3/8	49-1/2	32	608
270	29-9/16	20-5/8	23-3/8	26-5/8	31-3/8	23-1/4	54-3/4	49-7/8	49-7/8	54-3/4	34-3/8	726
300	32-13/16	22-15/16	25-3/8	29-1/2	34-5/8	25-7/8	60	55-38	55-3/8	60	37-3/16	878
330	36-1/8	25-1/4	27-7/8	32-3/8	37-7/8	28-3/8	65-3/4	60-3/4	60-3/4	65-3/4	40	1044
365	39-15/16	27-7/8	30-5/8	35-5/8	41-3/4	31-3/8	72-3/8	67	67	72-3/8	43-1/8	1254
402	44-1/16	30-3/4	33-5/8	39-1/4	46-3/4	34-5/8	80-3/8	73-7/8	73-7/8	80-3/8	46-5/8	1487
445	48-11/16	34	37-1/8	43-1/4	51-3/8	38-1/4	88-1/2	81-1/2	81-1/2	88-1/2	50-3/8	1790
490	53-5/8	37-7/16	40-3/4	47-1/2	56-1/4	42-1/4	97	89-3/4	89-3/4	97	55-5/16	2132
540	59-1/16	41-1/4	44-7/8	52-1/4	61-3/4	46-1/2	106-5/8	98-3/4	98-3/4	106-5/8	61-5/8	2599
600	65-5/8	45-13/16	49-3/4	58	68-1/4	51-5/8	118	109-5/8	109-5/8	118	66-11/16	3147

* Class I only. For Class II add 10%. For Class III add 20%.

Material Gauges and Shaft Diameters for CA/CF SWSI Blowers

Size	All Arrangements						Arrangement 3			Arrangement 1, 9, 10				
	Class I		Class II		Class III		Shaft Diameter			Shaft Diameter			Arr. 9 Max. Mtr. Frm**	Arr. 10 Max. Mtr. Frm**
	Scroll	Side Panel	Scroll	Side Panel	Scroll	Side Panel	Class I	Class II	Class III	Class I	Class II	Class III		
120	12 Ga.	12 Ga.	12 Ga.	12 Ga.	10 Ga.	10 Ga.	1	1	1-3/16	1-3/16	1-7/16	1-11/16	145T	56
135													145T	145T
150								1-3/16	1-7/16				184T	145T
165													184T	184T
180							1-3/16	1-7/16	1-11/16	1-7/16	1-11/16		215T	184T
195	10 Ga.	10 Ga.	10 Ga.	10 Ga.			1-7/16						215T	184T
210												1-15/16	256T	184T
225													256T	215T
245								1-11/16	1-15/16	1-11/16	1-15/16	2-3/16	286T	256T
270													286T	284T
300							1-11/16	1-15/16	2-3/16	1-15/16	2-3/16	2-7/16	326T	326T
330					7 Ga.	7 Ga.	1-11/16	2-3/16					326T	365T
365							1-15/16	2-7/16	2-7/16	2-3/16	2-7/16	2-15/16	326T	404T
402									2-11/16				326T	404T
445								2-11/16	2-15/16	2-7/16	2-15/16	3-7/16	326T	404T
490							2-3/16						404T	404T
540							2-7/16	2-15/16	3-7/16	2-15/16	3-7/16	3-15/16	404T	404T
600			7 Ga.	7 Ga.			2-11/16	3-7/16	3-15/16				404T	404T
660							3-7/16	3-15/16	4-7/16	3-7/16	3-15/16	4-7/16	404T	404T
730													404T	404T

Material Gauges and Shaft Diameters for CA-4/CF-4 SWSI Blowers

Size	All Arrangements				Arrangement 1			Arrangement 2 with Motor Mount		Arrangement 2 Swing Out		Arrangement 3		
	Scroll			Side Panel	Shaft Diameter			Shaft Diameter	Max. Mtr. Frame*	Shaft Diameter	Max. Mtr. Frame*	Shaft Diameter		
	Class I	Class II	Class III	Class I, II, III	Class I	Class II	Class III	Class I		Class I		Class I	Class II	Class III
120	12 Ga.	12 Ga.	10 Ga.	12 Ga.	1-3/16	1-7/16	1-7/16	1-3/16	145T	-	-	1	1	1-3/16
135									145T					
150									182T				1-3/16	1-7/16
165									182T					
180							1-11/16		184T			1-3/16	1-7/16	1-11/16
195		10 Ga.		10 Ga.					184T					
210					1-7/16	1-11/16	1-15/16	1-7/16	184T	1-7/16	256T			
225									213T		256T	1-7/16		
245					1-11/16	1-15/16	2-7/16	1-11/16	213T	1-11/16	284T		1-11/16	1-15/16
270									215T		284T			
300					1-15/16	2-3/16		1-15/16	254T	1-15/16	324T	1-11/16	1-15/16	2-3/16
330			7 Ga.						254T		324T		2-3/16	
365	10 Ga.				2-3/16	2-7/16	2-15/16	2-3/16	256T	2-3/16	326T	1-15/16	2-7/16	2-7/16
402									256T		326T			2-11/16
445				7 Ga.	2-7/16	2-15/16	3-7/16	2-7/16	286T	2-7/16	364T		2-11/16	2-15/16
490									286T		364T	2-3/16		
540					2-15/16	3-7/16	3-15/16	2-15/16	324T	-	-	2-7/16	2-15/16	3-7/16
600		7 Ga.		1/4”					324T			2-11/16	3-7/16	3-15/16

Dimensions are in inches. * Max motor frame is based on single speed ODP motor.

Material Gauges and Shaft Diameters for CA/CA-4 DWDI Blowers

<table>
<tr><th rowspan="3">Size</th><th colspan="3">All Arrangements</th><th colspan="6">CA DWDI Arrangement 3</th><th colspan="4">CA-4 DWDI Arrangement 3</th></tr>
<tr><th colspan="3">Scroll</th><th colspan="3">Side Panel</th><th colspan="3">Shaft Diameter*</th><th>Side Panel</th><th colspan="3">Shaft Diameter*</th></tr>
<tr><th>Class I</th><th>Class II</th><th>Class III</th><th>Class I</th><th>Class II</th><th>Class III</th><th>Class I</th><th>Class II</th><th>Class III</th><th>Class I, II, III</th><th>Class I</th><th>Class II</th><th>Class III</th></tr>
<tr><td>120</td><td rowspan="6">12 Ga.</td><td rowspan="6">12 Ga.</td><td rowspan="6">10 Ga.</td><td rowspan="3">12 Ga.</td><td rowspan="3">12 Ga.</td><td rowspan="6">10 Ga.</td><td>1-7/16</td><td>1-11/16</td><td>1-15/16</td><td rowspan="4">12 Ga.</td><td>1-7/16</td><td>1-11/16</td><td>1-15/16</td></tr>
<tr><td>135</td><td></td><td></td><td>2-3/16</td><td></td><td></td><td>2-3/16</td></tr>
<tr><td>150</td><td rowspan="2">1-11/16</td><td rowspan="2">1-15/16</td><td rowspan="2">2-7/16</td><td rowspan="2">1-11/16</td><td rowspan="2">1-15/16</td><td rowspan="2">2-7/16</td></tr>
<tr><td>165</td></tr>
<tr><td>180</td><td rowspan="5">10 Ga.</td><td rowspan="5">10 Ga.</td><td rowspan="5">10 Ga.</td><td rowspan="5">10 Ga.</td><td rowspan="5">10 Ga.</td><td rowspan="3">1-15/16</td><td rowspan="3">2-3/16</td><td rowspan="3">2-11/16</td><td rowspan="5">10 Ga.</td><td rowspan="3">1-15/16</td><td rowspan="3">2-3/16</td><td rowspan="3">2-11/16</td></tr>
<tr><td>195</td></tr>
<tr><td>210</td><td rowspan="2">2-7/16</td><td rowspan="2">2-15/16</td></tr>
<tr><td>225</td><td rowspan="3">2-7/16</td><td rowspan="3">2-11/16</td><td rowspan="3">2-3/16</td><td rowspan="3">2-3/16</td><td rowspan="3">2-11/16</td><td rowspan="3">2-3/16</td></tr>
<tr><td>245</td></tr>
<tr><td>270</td></tr>
<tr><td>300</td><td rowspan="3">10 Ga.</td><td rowspan="3">10 Ga.</td><td rowspan="3">7 Ga.</td><td rowspan="3">7 Ga.</td><td rowspan="3">7 Ga.</td><td>2-7/16</td><td rowspan="2">2-3/16</td><td rowspan="2">2-7/16</td><td>2-7/16</td><td rowspan="2">2-3/16</td><td rowspan="2">2-7/16</td></tr>
<tr><td>330</td><td>2-11/16</td></tr>
<tr><td>365</td><td>2-3/16</td><td rowspan="2">2-7/16</td><td rowspan="2">2-11/16</td><td rowspan="3">7 Ga.</td><td>2-3/16</td><td rowspan="2">2-7/16</td><td rowspan="2">2-11/16</td></tr>
<tr><td>402</td><td rowspan="2">2-7/16</td></tr>
<tr><td>445</td><td>2-11/16</td><td>2-15/16</td><td>2-11/16</td><td>2-15/16</td></tr>
<tr><td>490</td><td rowspan="3">2-15/16</td><td>3-7/16</td><td>3-7/16</td><td rowspan="3">2-15/16</td><td>3-7/16</td><td>3-7/16</td></tr>
<tr><td>540</td><td rowspan="2">3-7/16</td><td rowspan="2">3-15/16</td><td>3-15/16</td><td rowspan="2">3-7/16</td><td rowspan="2">3-15/16</td><td>3-15/16</td></tr>
<tr><td>600</td><td rowspan="2">4-7/16</td><td rowspan="2">1/4”</td><td>4-7/16</td></tr>
<tr><td>660</td><td rowspan="2">7 Ga.</td><td rowspan="2">7 Ga.</td><td>3-15/16</td><td rowspan="2">4-7/16</td><td rowspan="2">4-7/16</td></tr>
<tr><td>730</td><td>4-7/16</td><td>4-15/16</td></tr>
</table>

* Drive end. Shaded area indicates turned-down shafting.

Material Gauges and Shaft Diameters for CAF-DW Blowers

<table>
<tr><th rowspan="2">Size</th><th colspan="3">Scroll</th><th colspan="3">Side Panel</th><th colspan="3">Shaft Diameter*</th></tr>
<tr><th>Class I</th><th>Class II</th><th>Class III</th><th>Class I</th><th>Class II</th><th>Class III</th><th>Class I</th><th>Class II</th><th>Class III</th></tr>
<tr><td>120</td><td rowspan="8">16 Ga.</td><td rowspan="8">16 Ga.</td><td rowspan="4">16 Ga.</td><td rowspan="8">14 Ga.</td><td rowspan="8">14 Ga.</td><td rowspan="8">14 Ga.</td><td rowspan="3">1-7/16</td><td rowspan="2">1-7/16</td><td>1-11/16</td></tr>
<tr><td>135</td><td rowspan="2">1-15/16</td></tr>
<tr><td>150</td><td rowspan="3">1-15/16</td></tr>
<tr><td>165</td><td rowspan="3">1-11/16</td><td rowspan="3">2-3/16</td></tr>
<tr><td>180</td><td rowspan="5">14 Ga.</td></tr>
<tr><td>195</td><td rowspan="2">2-3/16</td></tr>
<tr><td>210</td></tr>
<tr><td>225</td><td rowspan="2">1-15/16</td><td rowspan="2">2-7/16</td><td rowspan="5">2-7/16</td></tr>
<tr><td>245</td></tr>
<tr><td>270</td><td rowspan="2">2-3/16</td><td>2-11/16</td></tr>
<tr><td>300</td><td rowspan="3">14 Ga.</td><td rowspan="3">14 Ga.</td><td rowspan="3">12 Ga.</td><td rowspan="3">12 Ga.</td><td>2-7/16</td><td>2-15/16</td></tr>
<tr><td>330</td><td rowspan="2">2-11/16</td><td rowspan="2">3-7/16</td><td rowspan="2">2-15/16</td></tr>
<tr><td>365</td><td rowspan="3">12 Ga.</td></tr>
<tr><td>402</td><td rowspan="3">12 Ga.</td><td rowspan="3">10 Ga.</td><td rowspan="3">12 Ga.</td><td rowspan="3">12 Ga.</td><td rowspan="3">10 Ga.</td><td rowspan="2">2-15/16</td><td rowspan="2">2-7/16</td><td rowspan="2">3-7/16</td></tr>
<tr><td>445</td></tr>
<tr><td>490</td><td rowspan="3">12 Ga.</td><td>3-7/16</td><td>2-15/16</td><td>3-15/16</td></tr>
<tr><td>540</td><td rowspan="3">10 Ga.</td><td rowspan="2">7 Ga.</td><td rowspan="3">10 Ga.</td><td rowspan="3">7 Ga.</td><td rowspan="3">2-15/16</td><td rowspan="3">3-7/16</td><td>4-7/16</td></tr>
<tr><td>600</td><td rowspan="3">10 Ga.</td><td rowspan="3">10 Ga.</td><td rowspan="3">7 Ga.</td><td>4-15/16</td></tr>
<tr><td>660</td><td rowspan="2">-</td><td rowspan="2">-</td><td rowspan="2">3-7/16</td><td rowspan="2">-</td></tr>
<tr><td>730</td><td>7 Ga.</td><td>7 Ga.</td><td>3-15/16</td></tr>
</table>

* Drive end. Shaded area indicates turned-down shafting.

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.

LORENIZED™ Fan Finish Specification

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

Standard Color - Gray

Final Coat Thickness - Minimum 2 mils

Polyester Powder Testing Information

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

Wheels

CA - Steel, Backward, Inclined, Airfoil

CF - Steel, Backward, Inclined, Flat Blade

High Temperature Operation

Temperature Range (°F)	Fan Arrangement	Construction Features
-20 to 180	All	Standard Construction
181 to 230	1, 2, 8, 9 & 10	Standard Construction
	3	High Temperature Bearings
231 to 300	1, 2, 8, 9 & 10	High Temperature Paint
	3	High Temperature Paint High Temperature Bearings
301 to 500	1, 2, 8, 9 & 10	High Temperature Paint Special Louvered Weather Cover (if WC is required) Shaft Cooler No Aluminum Wheel Construction Motor Heat Shield required on Arr. 2, 9 & 10
501 to 800	1, 2, 8 & 9	High Temperature Paint High Temperature Bearings Shaft Cooler No Aluminum Construction Motor Heat Shield required on Arr. 2 & 9
800 and up	1 & 8	Consult Factory

Special Notes:

1. For each degree that the Ambient temperature is above 100°F, the maximum airstream temperature is reduced by 5.5°F.
2. For elevated airstream temperatures, the maximum fan speed limits must be derated by the factors below.

Fan Construction Material	Operating Temperature (°F)	Speed Limit Factor
Carbon Steel	70	1.00
	200	0.98
	300	0.96
	400	0.94
	500	0.91
	600	0.87
	700	0.81
	800	0.75
Aluminum	70	1.00
	200	0.93
	300	0.79

For proper motor selection you must give consideration to starting torque requirements along with operating BHP. The above chart lists the WK^2 factor for different wheel sizes. In some cases it may be necessary to provide a larger horsepower motor, even though it may not be indicated by operating BHP, in order to bring the fan to speed. The following formula can be applied to determine the required motor starting torque:

$$WK^2_M = WK^2_F \left(\frac{FRPM}{}\right)^2 (1.1)$$

WHERE: WK^2_M - the moment of inertia required at the motor shaft, LB-Ft^2.

WK^2_F - the moment of inertia of the fan. LB-Ft^2.

FRPM - fan RPM

MRPM - motor RPM

Motor starting torque can vary greatly among motor manufacturers, the available WK^2_M at the motor should be obtained from the motor manufacturer.

Approximate Wheel Weights And Wk^2 For CA-DWDI & CAF-DW Wheels

Unit Size	CA-DWDI						CAF-DW					
	Class I		Class II		Class III		Class I		Class II		Class III	
	Weight	WK^2	Weight	WK^2	Weight	WK^2	Weight	WK^2	Weight	WK^2	Weight	WK^2
120	24.5	3.1	30.3	3.3	31.3	3.3	24.5	3.1	30.3	3.3	31.3	3.3
135	29.0	4.9	34.8	5.0	36.8	5.5	29.0	4.9	34.8	5.0	36.8	5.5
150	39.8	7.4	42.8	8.0	51.1	8.4	40.6	7.4	42.8	8.0	52.6	8.4
165	47.7	11.3	49.2	11.4	57.7	11.9	47.7	11.3	49.2	11.4	59.2	11.9
180	54.5	15.9	56.6	16.1	69.1	18.0	54.5	15.9	56.6	16.1	70.6	18.0
195	63.4	21.8	63.8	22.2	76.6	24.6	64.7	21.8	65.0	22.2	78.1	24.6
210	71.3	29.1	77.2	32.1	85.5	32.6	72.5	29.1	77.2	32.1	87.1	32.7
225	88.2	42.8	104.8	46.9	117.7	48.0	88.2	42.8	103.2	46.9	119.9	48.1
245	109.0	64.8	119.6	65.7	135.0	67.1	110.3	64.8	119.6	65.7	135.0	67.1
270	130.1	95.0	140.1	96.1	159.3	97.5	130.1	95.0	141.7	96.1	159.3	97.5
300	166.3	144.6	225.5	222.6	203.1	147.7	167.8	144.6	225.5	222.6	203.1	147.7
330	194.0	209.2	270.9	301.9	243.0	215.1	195.6	209.2	270.9	301.9	243.0	215.1
365	249.0	312.6	329.3	450.9	302.4	342.3	235.2	311.8	329.3	450.9	302.4	342.3
402	318.2	493.1	402.1	653.7	390.4	538.9	318.2	493.1	402.1	653.7	411.7	541.4
445	398.1	735.5	459.5	890.9	487.5	802.3	403.6	735.6	459.5	890.9	487.5	802.3
490	436.0	1074.9	510.2	964.9	544.6	1176.8	436.0	1074.9	510.2	964.9	544.6	1176.8
540	386.6	945.1	631.3	1502.5	569.6	1099.9	392.7	945.2	631.3	1502.5	553.9	1099.1
600	529.1	1594.0	581.6	1630.2	768.1	1972.5	529.1	1594.0	581.6	1630.2	806.1	1980.1
660	645.1	2321.1	721.8	2376.5	948.9	2872.7	645.1	2321.1	721.8	2376.5	-	-
730	843.7	3662.9	906.9	3745.1	1199.2	4491.1	853.5	3663.3	906.9	3745.1	-	-

Approximate Wheel Weights (lbs.) and WK^2 (lbs.-ft^2) for CA SWSI Steel Wheels

Size	Single Width-Single Inlet					
	Class I		Class II		Class III	
	Wheel	Wk^2	Wheel	Wk^2	Wheel	Wk^2
120	18	2	18	2	19	2
135	20	3	20	3	22	4
150	24	5	26	5	28	6
165	30	7	30	7	32	8
180	48	12	48	12	51	13
195	53	15	53	15	57	18
210	58	20	58	20	63	23
225	67	28	67	28	80	36
245	76	39	85	45	91	50
270	99	64	98	65	107	73

Size	Single Width-Single Inlet					
	Class I		Class II		Class III	
	Wheel	Wk^2	Wheel	Wk^2	Wheel	Wk^2
300	146	102	147	102	160	119
330	172	153	171	154	189	179
365	197	225	218	264	237	287
402	253	362	279	420	300	454
445	380	570	413	659	438	709
490	430	817	472	949	504	1022
540	495	1185	586	1483	580	1484
600	630	1948	688	2238	784	2568
660	829	2907	905	3338	1020	3820
730	978	4378	1071	5026	1214	5747

Approximate Wheel Weights (lbs.) and WK^2 (lbs.-ft^2) for CF SWSI Steel Wheels

Size	Single Width - Single Inlet					
	Class I		Class II		Class III	
	Wheel Wt.	Wk^2	Wheel Wt.	Wk^2	Wheel Wt.	Wk^2
120	17	2	20	3	22	3
135	20	3	24	4	27	5
150	23	4	30	6	33	7
165	29	7	35	9	39	11
180	48	11	59	16	64	19
195	51	14	66	22	72	25
210	60	21	73	29	81	33
225	65	27	81	37	97	47
245	74	37	101	57	111	66
270	96	62	118	83	131	96

Size	Single Width - Single Inlet					
	Class I		Class II		Class III	
	Wheel Wt.	Wk^2	Wheel Wt.	Wk^2	Wheel Wt.	Wk^2
300	143	98	188	151	187	151
330	168	148	221	225	221	225
365	193	217	258	335	277	358
402	266	390	327	523	349	557
445	396	613	473	815	498	866
490	451	882	546	1180	577	1254
540	577	1495	679	1832	673	1833
600	731	2421	802	2772	898	3102
660	953	3606	1044	4129	1159	4611
730	1129	5429	1241	6212	1384	6934

Approximate Wheel Weights (lbs.) and WK^2 (lbs.-ft^2) for CA SWSI and DWDI Aluminum Wheels

Size	Single Width - Single Inlet				Double Width - Double Inlet			
	Class I		Class II		Class I		Class II	
	Wheel Wt.	Wk^2	Wheel Wt.	Wk^2	Wheel Wt.	Wk^2	Wheel Wt.	Wk^2
120	7	1	7	1	14	2	14	2
135	8	1	8	1	16	2	16	2
150	9	2	9	2	18	4	18	4
165	11	3	11	3	22	6	22	6
180	17	4	17	4	34	8	34	8
195	19	6	20	6	38	12	40	12
210	21	7	22	8	42	14	44	16
225	26	11	26	11	52	22	52	22
245	30	17	30	17	60	34	60	34
270	35	24	34	24	70	48	68	48

Size	Single Width - Single Inlet				Double Width - Double Inlet			
	Class I		Class II		Class I		Class II	
	Wheel Wt.	Wk^2	Wheel Wt.	Wk^2	Wheel Wt.	Wk^2	Wheel Wt.	Wk^2
300	53	38	56	40	106	76	112	80
330	60	55	63	57	120	110	126	114
365	72	84	80	100	144	168	160	200
402	83	122	94	146	166	244	188	292
445	129	195	143	231	258	390	286	462
490	145	278	174	356	290	556	348	712
540	175	439	209	552	350	878	418	1104
600	220	713	244	832	440	1426	488	1664
660	293	1067	348	1327	586	2134	696	2654
730	338	1570	405	1960	676	3140	810	3920

Approximate Wheel Weights (lbs.) and WK^2 (lbs.-ft^2) for CF SWSI Aluminum Wheels

Size	Single Width - Single Inlet			
	Class I		Class II	
	Wheel Wt.	Wk^2	Wheel Wt.	Wk^2
120	6	1	6	1
135	7	1	7	1
150	8	1	8	2
165	9	2	10	2
180	15	3	18	5
195	17	5	21	7
210	18	6	23	9
225	21	8	25	11
245	24	12	29	16
270	28	18	34	24

Size	Single Width - Single Inlet			
	Class I		Class II	
	Wheel Wt.	Wk^2	Wheel Wt.	Wk^2
300	47	31	61	47
330	53	44	70	67
365	63	69	80	99
402	82	120	94	145
445	128	192	143	231
490	143	273	173	355
540	173	434	210	554
600	218	706	245	834
660	315	1195	349	1333
730	366	1763	406	1968

Motor Selection

For proper motor selection you must give consideration to starting torque requirements along with operating BHP. The chart on page 6, lists the Wk^2 factor for different wheel sizes. In some cases, it may be necessary to provide a larger horse power motor, even though it may not be indicated by operating BHP, in order to bring the fan to speed.

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

$$Wk^2 = Wk_F^2\left(\frac{FRPM}{MRPM}\right)^2 (1.1)$$

Motor starting torque can vary greatly among motor manufacturers. The available Wk_M^2 at the motor should be obtained from the motor manufacturer.

Where:

Wk_M^2 -- the moment of inertia required at the motor shaft, LB - FT^2

Wk_M^2 -- the moment of inertia of the fan, LB - FT^2

FRPM -- fan RPM

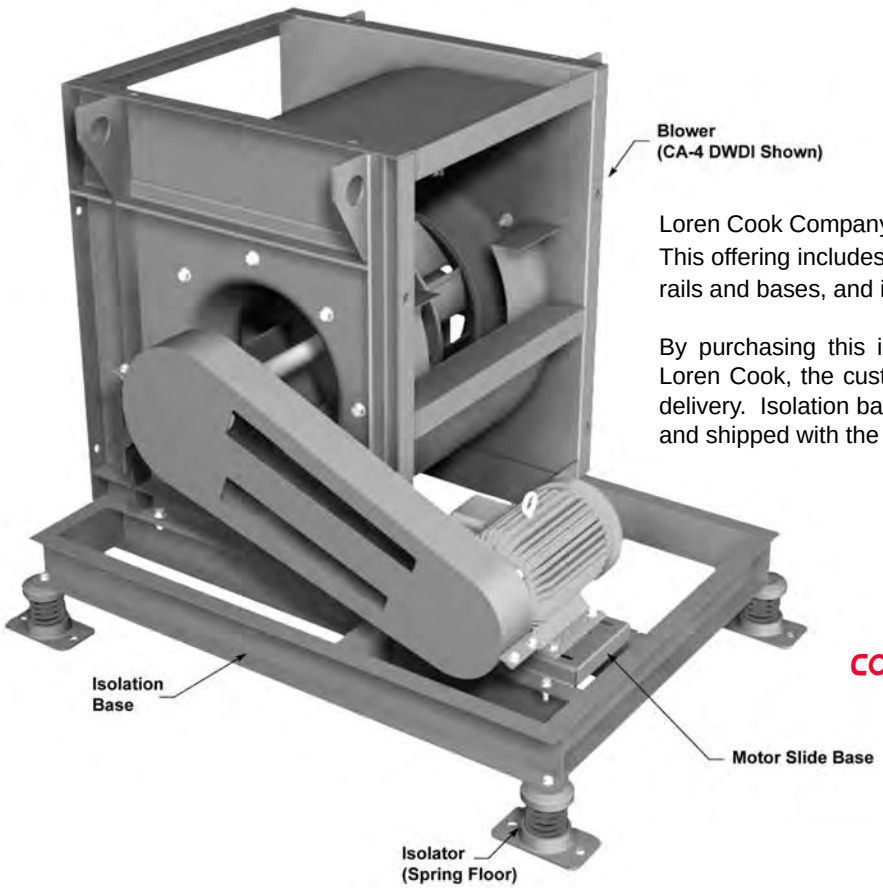
MRPM -- motor RPM

Air Density Factors for Various Temperatures and Altitudes

Unity Basis = Standard Air Density of .075 lb/ft^3. At sea level (29.92 in. Hg barometric pressure) this is equivalent to dry air at 70^o F

Air Temp. °F	Altitude in Feet Above Sea Level					
	0	2000	4000	6000	8000	10000
	Barometric Pressure in Inches of Mercury					
	29.92	27.82	25.84	23.98	22.22	20.58
70	1.000	.930	.864	.801	.743	.688
100	.964	.880	.818	.758	.703	.651
200	.803	.747	.694	.643	.596	.552
300	.697	.648	.604	.558	.518	.480
400	.616	.573	.532	.493	.458	.424
500	.552	.513	.477	.442	.410	.380
600	.500	.465	.432	.400	.372	.344
700	.457	.425	.395	.366	.340	.315

Vibration Isolation



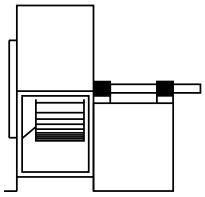
Loren Cook Company offers a full line of vibration isolation products. This offering includes: rubber-in-shear and spring isolators, isolation rails and bases, and inertia bases.

By purchasing this isolation equipment and the fan directly from Loren Cook, the customer is assured of proper fit and coordinated delivery. Isolation bases purchased with the fan are normally tested and shipped with the fan pre-mounted. Isolators are shipped loose.

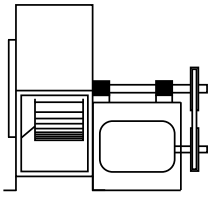
For detailed information consult

COOK's Vibration Isolation Brochure

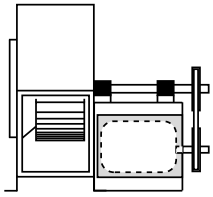
Belt Drive Arrangements



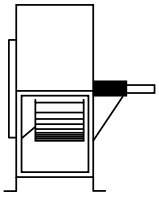
Arr. 1 SWSI
Impeller overhung, two bearings on base.



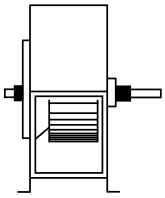
Arr. 9 SWSI
Impeller overhung, two bearings with motor outside base.



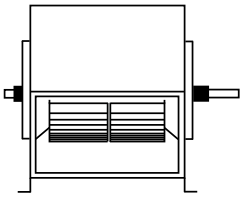
Arr. 10 SWSI
Impeller overhung, two bearings, with motor inside base.



Arr. 2 SWSI
Impeller overhung, bearings in bracket supported by fan housing.



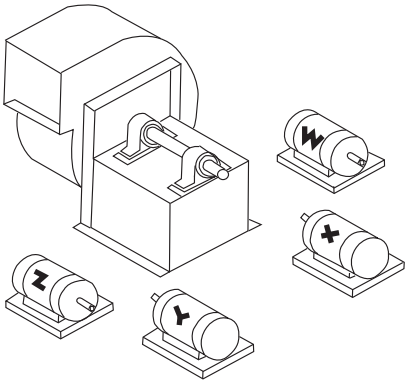
Arr. 3 SWSI
One bearing on each side and supported by fan housing.

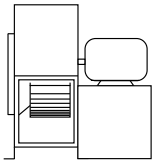


Arr. 3 DWDI
One bearing on each side and supported by fan housing.

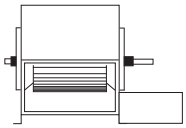
Motor Positions for Belt Drive Centrifugal Fans

To determine the location of the motor, face the drive side of the fan and pick the proper motor position designated by the letters W, X, Y or Z as shown in the drawing.

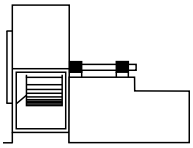




Arr. 4 SWSI - For direct drive. Impeller over-hung on prime mover shaft. No bearings on fan. Prime mover base mounted or integrally directly connected.



Arr. 7 DWDI, SWSI - For belt drive or direct connection. Arrangement 3 plus base for prime mover.



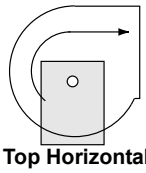
Arr. 8 SWSI - For belt drive or direct connection. Arrangement 1 plus extended base for prime mover.

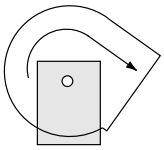
Rotation and Discharge

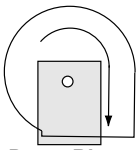
The direction of rotation is determined from the drive side of the fan. On single inlet fans, drive side is always considered as the side opposite the fan inlet.

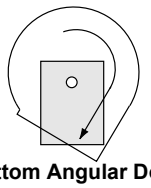
The angle of the discharge is based on the horizontal axis of the fan and is designated in degrees (45° standard) above or below the standard reference axis.

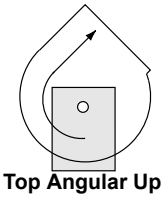
Clockwise Rotation

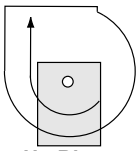

Top Horizontal

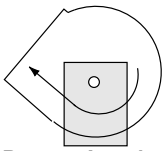

Top Angular Down

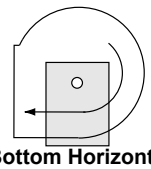

Down Blast


Bottom Angular Down

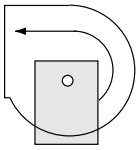

Top Angular Up

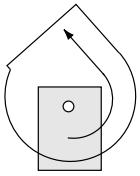

Up Blast

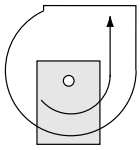

Bottom Angular Up

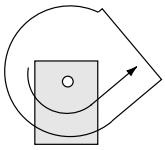

Bottom Horizontal

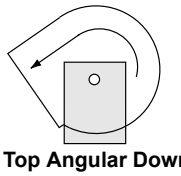
Counter Clockwise Rotation

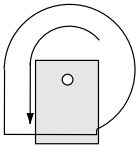

Top Horizontal

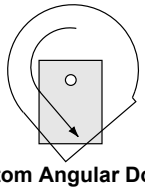

Top Angular Up

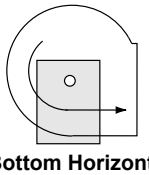

Up Blast


Bottom Angular Up


Top Angular Down


Down Blast


Bottom Angular Down


Bottom Horizontal

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 500°F

CA-SWSI Arrangement 1, 9 and 10
CA-4 SWSI Arrangement 1 2, and 2 Swing Out
CF Arrangement 1, 9 and 10
CF-4 Arrangement 1 and 2

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.

CA/CF
Arrangement 9 shown

c UL us
UL Listed for Restaurant Exhaust Appliances
327Y

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 (SBSCCI).
- The unit must be listed under UL 705.

Products UL Listed for Smoke Control

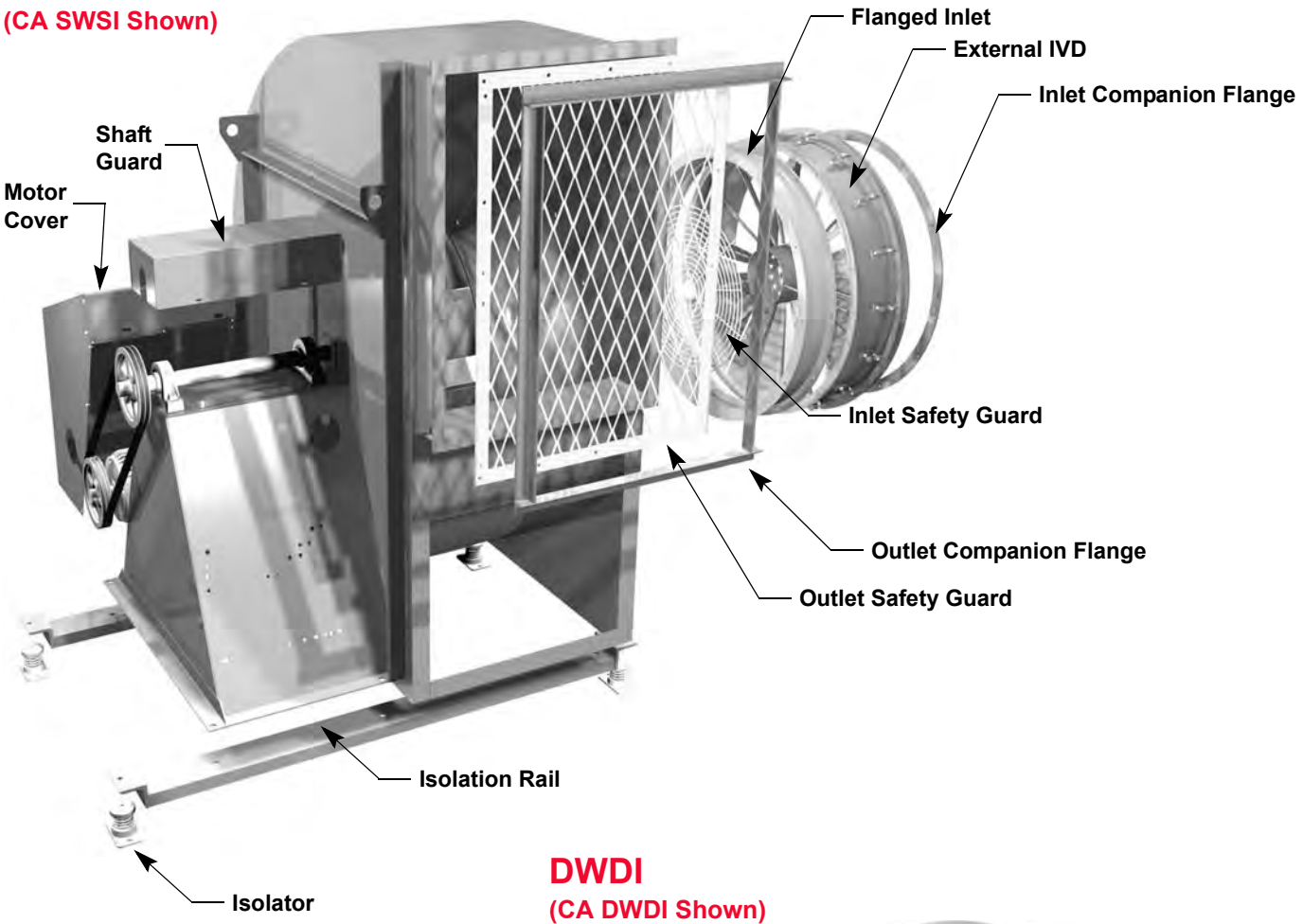
CA/CF Arrangement 1, 9 and 10
CA-4/CF-4 Arrangement 1 and 2

Cook model CA / CF units are available in sizes 120 through 730 with performances up to 12” w.g. static pressures. (Arrangements 1, 9 & 10 only). Requires motor heat shield and steel construction.

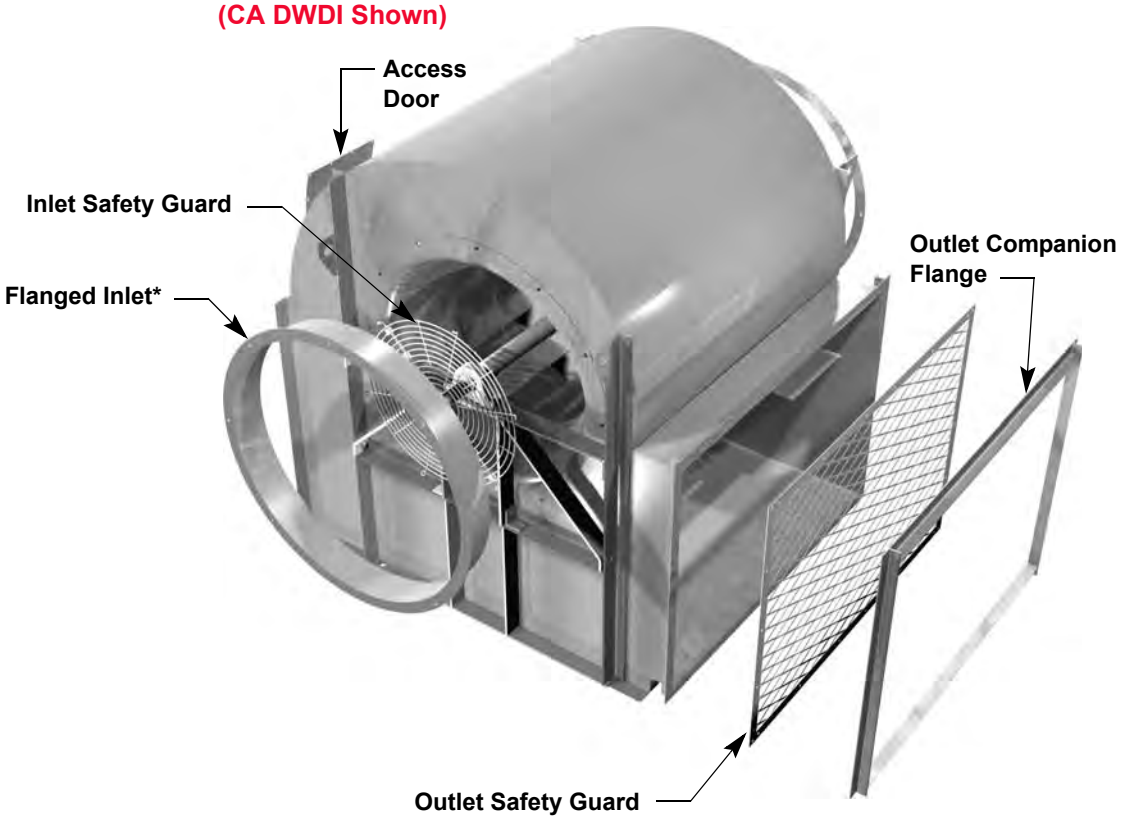
CA/CF
Arrangement 9 shown

c UL us
Listed Power Ventilator for Smoke Control Systems

SWSI
(CA SWSI Shown)



DWDI
(CA DWDI Shown)



*Only Available with External IVD.

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.

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. Optional expanded metal construction is also available; please consult factory.

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.

Inlet/Outlet Safety Guards
Inlet/Outlet safety guards are available to protect personnel and prevent debris from entering the fan. Safety guards are constructed of either expanded metal or wound spiral rings and are factory installed. Available in optional safety yellow. Cataloged performance is based on fans without safety guards.

Shaft Cooler
A shaft cooler is required for air temperature above 300°F. The shaft cooler is an aluminum casting with radial vanes mounted on the shaft between the inboard bearing and the fan housing. It is designed to dissipate heat which is conducted along the shaft. In addition, it prevents excessive bearing temperatures.

Shaft Seal
The shaft seal reduces air leakage around fan shaft in high discharge pressure applications. It is constructed of aluminum and nitrile rubber.

Rub Ring
The rub ring lines the hole through which the shaft passes to prevent the shaft and wheel from contacting the housing. The rub ring is constructed of aluminum.

Shaft Guard, Arr. 1, 2 and 9 available in steel and aluminum
A shaft guard is available that covers the bearings and shaft to protect personnel during fan operation.

Horizontal Split Housing
CA/CF housings may be split and disassembled in the field to allow the unit to fit through smaller openings when required. The blower should be balanced prior to being put into service if the wheel and/or shaft were removed in the field.

Extended Life Bearings
Extended life bearings are available that provide L10 life in excess of 200,000 hours. Ratings are calculated per AFBMA Standards and based on maximum operating conditions.

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 effective OSHA belt guard.

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.

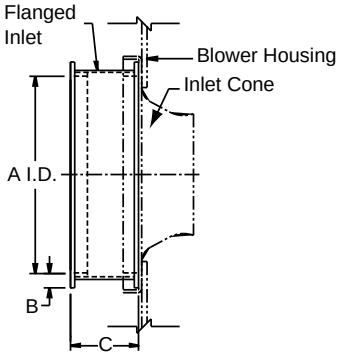
Cook Easy Clean Powder is an electrostatically applied, baked modified epoxy silicone powder producing a high temperature "non-stick" coating. Final coating thickness is 1.3 - 1.7 mils.

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.

Flanged Inlet

Flanged inlet connections are available for applications requiring flanged inlet duct connections. Flanged inlets are available on all Arrangements. Flanged inlet connection is required when using external inlet vane dampers on Arrangement 3 fans. Flanged Inlet is not available with Nested Inlet Vane Damper.



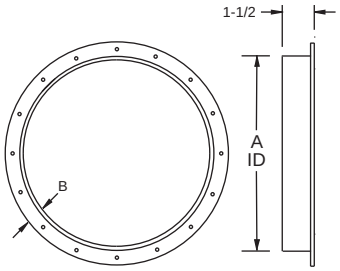
Size	A	B	C
120	12-5/8	1-1/2	5-3/4
135	14-1/8	1-1/2	5-3/4
150	15-5/8	1-1/2	5-3/4
165	17	2	5-3/4
180	18-1/2	2	5-3/4
195	19-3/4	2	6-1/4
210	21-1/2	2	6-1/4
225	23	2	6-1/4
245	25	2	6-1/4
270	27-1/4	2	6-1/4

Size	A	B	C
300	30-1/4	2	6-1/4
330	33-1/4	2	6-1/4
365	36-3/4	2	6-1/4
402	40-1/2	2	6-1/4
445	44-3/4	2	6-1/4
490	50-1/4	2	6-3/4
540	55-1/4	2	7-3/4
600	61-1/4	2	7-3/4
660	67-1/4	2	7-3/4
730	74-1/4	2	9-3/4

All dimensions in inches.

Inlet/Outlet Companion Flange

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

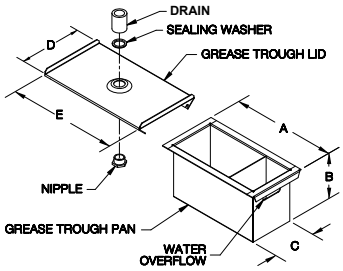


Size	A	B
60-100	10-5/8	1-1/2
120	12-5/8	1-1/2
135	14-1/8	1-1/2
150	15-5/8	1-1/2
165	17	2
180	18-1/2	2
195	19-3/4	2
210	21-1/2	2
220-225	23	2
245-250	25	2
270	27-1/4	2
300	30-1/4	2
330	33-1/4	2
365	36-3/4	2
402	40-1/2	2
445	44-3/4	2
490	50-1/4	2
540	55-1/4	2
600	61-1/4	2
660	67-1/4	2
730	74-1/4	2

All dimensions in inches.

Grease Trough

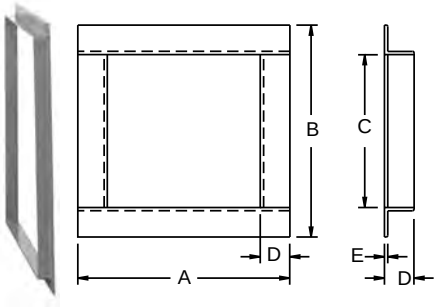
A grease trough provides for collection of grease from the CP unit. The grease trough is constructed of .064 aluminum and includes a pan, lid and mounting hardware. The pan is continuously welded and slides out for easy removal and cleaning and features a baffled design for extended capacity.



Dimension Data

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

Outlet Companion Flange



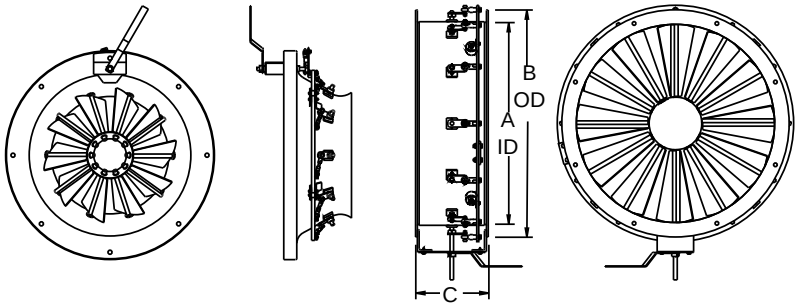
	CA/CF SWSI					CA DWDI				
Size	A	B	C	D	E	A	B	C	D	E
120	12-3/8	16-5/16	13-5/16	1-1/2	1/8	21-1/16	15-1/2	12-3/8	1-1/2	1/8
135	13-1/2	17-15/16	14-15/16	1-1/2	1/8	23-5/16	17	13-7/8	1-1/2	1/8
150	14-5/8	19-5/8	16-5/8	1-1/2	1/8	25-3/8	18-5/8	15-1/2	1-1/2	1/8
165	15-13/16	21-1/4	18-1/4	1-1/2	1/8	27-3/8	20-5/16	17-3/16	1-1/2	1/8
180	16-15/16	22-7/8	19-7/8	1-1/2	1/8	29-7/16	21-7/8	18-3/4	1-1/2	1/8
195	18-3/16	24-1/2	21-9/16	1-1/2	1/4	31-13/16	22-7/8	19-3/4	1-1/2	1/4
210	19-5/16	26-3/16	23-1/4	1-1/2	1/4	33-3/4	25	21-7/8	1-1/2	1/4
225	20-7/16	27-13/16	24-7/8	1-1/2	1/4	35-7/8	26-9/16	23-7/16	1-1/2	1/4
245	22	30	27	1-1/2	1/4	38-7/16	28-7/8	25-3/4	1-1/2	1/4
270	23-7/8	32-3/4	29-3/4	1-1/2	1/4	42-13/16	30-7/8	27-3/4	1-1/2	1/4
300	26-3/16	36	33-1/16	1-1/2	1/4	46-7/16	34-5/8	31-7/16	1-1/2	1/4
330	29-1/2	40-5/16	36-3/8	2	1/4	51-1/2	38-15/16	34-7/8	2	1/4
365	32-1/8	44-3/16	40-3/16	2	1/4	56-5/8	43-1/8	39-1/16	2	1/4
402	35	48-5/16	44-5/16	2	1/4	62-1/4	46-3/16	42-1/8	2	1/4
445	38-1/4	52-15/16	48-15/16	2	1/4	68-11/16	50-3/8	46-5/16	2	1/4
490	41-11/16	57-7/8	53-7/8	2	1/4	74-9/16	55-7/16	51-3/8	2	1/4
540	45-1/2	63-5/16	59-5/16	2	1/4	82-3/8	60-3/16	56-1/8	2	1/4
600	50-1/16	70	65-7/8	2	1/4	90-11/16	66-5/8	62-9/16	2	1/4
660	54-11/16	76-9/16	72-7/16	2	1/4	99-5/16	72-7/8	68-13/16	2	1/4
730	60	84-1/4	80-1/8	2	1/4	109-3/16	80-1/4	76-3/16	2	1/4

All dimensions in inches.

Inlet Vane Damper

Inlet vane dampers are available in nested or external type. Inlet vane dampers are used to provide precise air volume control while maintaining maximum efficiency and stable operation at part load conditions. Nested type Inlet Vane Dampers are typically used in non-ducted applications, while external Inlet Vane Dampers are use in ducted applications. Nested type is available on sizes 245 to 730. External type is available on sizes 120 to 730. **External inlet vane dampers used on Arrangement 3 fans require optional flanged inlet connection and should only be used when a direct inlet duct connection is required.** External inlet vane dampers used on DWDI fans will lower the class speed limit by as much as 50 percent. Please consult factory for details. Cataloged performance is based on fans without inlet vane dampers.

Nested **External**



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

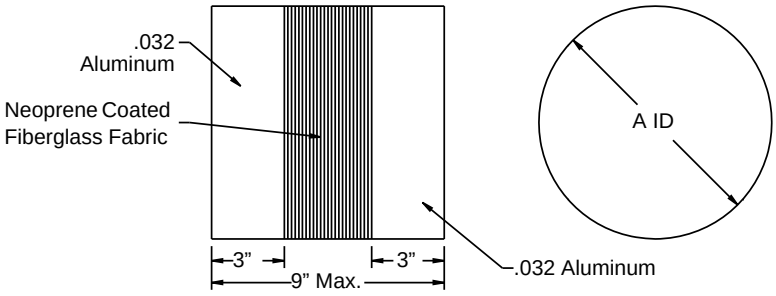
Size	A	B	C
300	30-1/4	34-1/4	10
330	33-1/4	37-1/4	10
365	36-3/4	40-3/4	10
402	40-1/2	44-1/2	11
445	44-3/4	48-3/4	11
490	50-1/4	54-1/4	11
540	55-1/4	59-1/4	12
600	61-1/4	65-1/4	12
660	67-1/4	71-1/4	12
730	74-1/4	78-1/4	12

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; not to be used for UL762 (Restaurant Exhaust) or smoke control units, or temperatures in excess of 250°F.

Inlet - (CA/CF SWSI, Class I only)

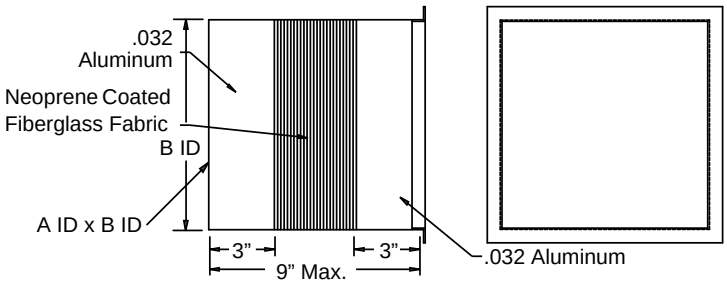


Size	A
120	16-1/4
135	17-3/4
150	19-1/4
165	21-1/4
180	22-3/4
195	24-1/4
210	26
225	27-1/2
245	29-1/2
270	32

Size	A
300	35
330	38
365	41-1/2
402	45-1/4
445	49-1/2
490	55
540	60
600	66
660	72
730	79

All dimensions in inches.

Outlet - (CA/CF SWSI, Class I only)



Outlet Flexible Duct Connector includes Outlet Companion Flange.

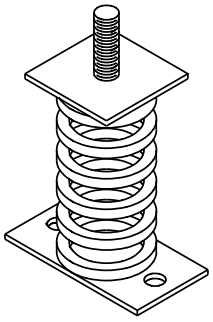
Size	A	B
120	9-5/8	13-9/16
135	10-3/4	15-3/16
150	11-7/8	16-7/8
165	13-1/16	18-1/2
180	14-3/16	20-1/8
195	15-11/16	22-1/16
210	16-13/16	23-3/4
225	17-15/16	25-3/8
245	19-1/2	27-1/2
270	21-3/8	30-1/4

Size	A	B
300	23-11/16	33-9/16
330	26	36-7/8
365	28-5/8	40-11/16
402	31-1/2	44-13/16
445	34-3/4	49-7/16
490	38-3/16	54-3/8
540	42	59-13/16
600	46-9/16	66-3/8
660	51-3/16	72-15/16
730	56-1/2	80-5/8

All dimensions in inches.

Isolators

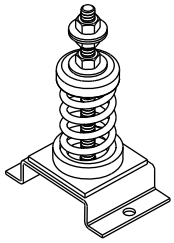
Free Standing Spring - Floor Mounted



Unit	Rated Load (lbs.)	Spring. Rate (lbs./in.)
SF-70	70	51
SF-120	120	98
SF-220	220	196
SF-370	370	366
SF-625	625	419
SF-1250	1250	1096
SF-1700	1700	1700
SF-2200	2200	2200
SF-3500	3500	3500

Isolators listed are designed to provide a minimum of 50 percent of overload capacity. A single hole is provided at the center of the plate.

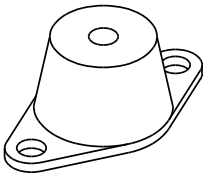
Restrained Spring - Floor Mounted



Unit	Rated Load (lbs.)	Spring. Rate (lbs./in.)
RS-70	70	51
RS-120	120	98
RS-220	220	196
RS-370	370	366
RS-625	625	419
RS-1250	1250	1096
RS-1700	1700	1700
RS-2200	2200	2200
RS-3500	3500	3500

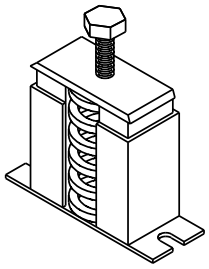
Isolators listed are designed to provide a minimum of 50 percent of overload.

Rubber-in-Shear - Floor Mounted



Unit	Rated Load (lbs.)
RF-55	55
RF-120	120
RF-220	220
RF-375	375
RF-600	600
RF-1100	1100
RF-2250	2250

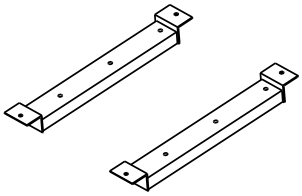
Housed Spring - Floor Mounted



Unit	Rated Load (lbs.)	Spring. Rate (lbs./in.)
HF-120	120	98
HF-220	220	196
HF-320	320	302
HF-370	370	366
HF-500	500	500
HF-700	700	700
HF-800	800	588
HF-1000	1000	826
HF-1250	1250	1096
HF-1700	1700	1700
HF-2200	2200	2200
HF-3500	3500	3500

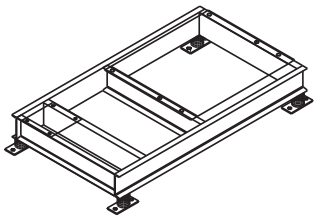
Isolators listed are designed to provide a minimum of 50 percent of overload capacity.

Isolation Rails



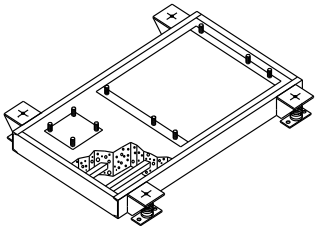
Isolation rails are recommended for all Arrangement 2 fans with motor mounted, and are required for isolating any Arrangement 9 or 10 fan with a centrifugal wheel diameter of 30 inches or more, unless the fan is supplied with an isolation or inertia base (see below). Smaller fans may benefit from isolation rails if fan attachment points do not coincide with desired mounting locations. Isolation rails, supplied in pairs, are designed to run the full length of the supported equipment (parallel to shafts) and can only be used on fans where the motor is an integral part of the fan. Each rail is constructed of rigid structural steel components coated with the standard factory finish, and are intended to be used in conjunction with two RIS Floor, Spring Floor, or Restrained Spring isolators depending on the needs of the application. They can also be used in ceiling mount applications with RIS Ceiling or Spring Ceiling Isolators. **Isolators are not included with the rails unless otherwise specified.** Optional seismic type isolators are also available; consult factory for more information.

Isolation Base



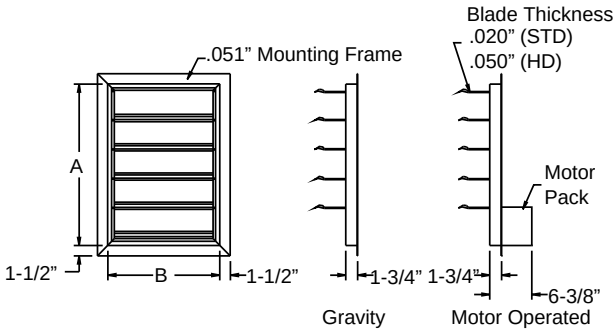
An isolation base is used to provide a single integral support for the fan and motor in cases where the motor is not an integral part of the fan such as Arrangements 1 and 3. Isolation bases are designed to run the full length of the supported equipment and motor. The base is constructed of structural steel channel (ASTM-A36) sized to resist belt pull and maintain proper alignment between the fan and motor. All connections are fully welded. The isolation base requires an adjustable motor slide base for motor mounting. Isolation bases are provided with mounting holes at each of the four corners and are available with optional rubber-in-shear (RF), spring floor (SF) or housed spring floor (HF) isolators (set of four required). Optional height saving brackets are also available.

Inertia Base



Inertia bases are used where additional mass is required to help dampen and dissipate vibration on large or high velocity fan equipment. The added weight allows the use of stiffer springs which further limits movement. The base is designed as a form for concrete which is poured on-site. The base consists of structural steel channel perimeter frame, with angle stiffeners on the interior of the base running in two directions. Height saving brackets are provided standard. Inertia bases are special quoted on request. An adjustable motor slide base is required for motor mounting and optional spring floor (SF) or housed spring floor (HF) isolators are also available.

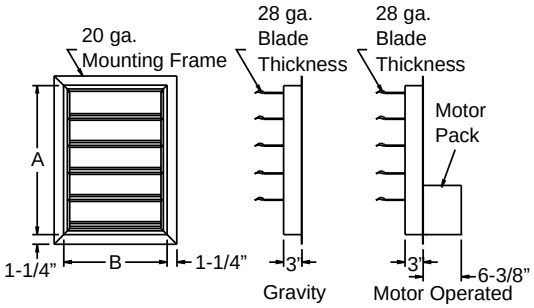
Aluminum Shutter - CA/CF SWSI



Size	Shutter Model Number*				A	B
	Gravity		Motor Operated			
	Standard Duty	Heavy Duty	Standard Duty	Heavy Duty		
120	ADSS-120	ADSH-120	MDSS-120	MDSH-120	9	12-15/16
135	ADSS-135	ADSH-135	MDSS-135	MDSH-135	10-1/8	14-9/16
150	ADSS-150	ADSH-150	MDSS-150	MDSH-150	11-1/4	16-1/4
165	ADSS-165	ADSH-165	MDSS-165	MDSH-165	12-3/8	17-13/16
180	ADSS-180	ADSH-180	MDSS-180	MDSH-180	13-1/2	19-7/16
195	ADSS-195	ADSH-195	MDSS-195	MDSH-195	14-11/16	21-1/16
210	ADSS-210	ADSH-210	MDSS-210	MDSH-210	15-13/16	22-3/4
225	ADSS-225	ADSH-225	MDSS-225	MDSH-210	16-15/16	24-3/8
245	ADSS-245	ADSH-245	MDSS-245	MDSH-245	18-1/2	26-9/16
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
540	ADSS-540	ADSH-540	MDSS-540	MDSH-540	59-1/16	41-1/4
600	ADSS-600	ADSH-600	MDSS-600	MDSH-600	65-5/8	45-13/16
660	ADSS-660	ADSH-660	MDSS-660	MDSH-660	72-3/16	50-7/16
730	ADSS-730	ADSH-730	MDSS-730	MDSH-730	79-7/8	55-3/4

*Use standard duty shutter for discharge velocities up to 2000 FPM. Use heavy duty shutter for discharge velocities of 2000 FPM to 3000 FPM. Above 3000 FPM, consult factory. All dimensions in inches. Gravity units not available on downblast and top angular down discharges.

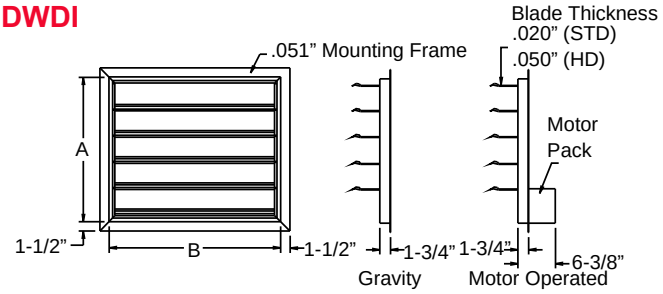
Galvanized Shutter - CA/CF SWSI



Size	Shutter Model Number		A	B
	Gravity	Motor Operated		
120	ADSG-120	MDSG-120	9	12-15/16
135	ADSG-135	MDSG-135	10-1/8	14-9/16
150	ADSG-150	MDSG-150	11-1/4	16-1/4
165	ADSG-165	MDSG-165	12-3/8	17-3/16
180	ADSG-180	MDSG-180	13-1/2	19-7/16
195	ADSG-195	MDSG-195	14-11/16	21-1/16
210	ADSG-210	MDSG-210	15-13/16	22-3/4
225	ADSG-225	MDSG-225	16-15/16	24-3/8
245	ADSG-245	MDSG-245	18-1/2	26-9/16
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
540	ADSG-540	MDSG-540	59-1/16	41-1/4
600	ADSG-600	MDSG-600	65-5/8	45-13/16
660	ADSG-660	MDSG-660	72-3/16	50-7/16
730	ADSG-730	MDSG-730	79-7/8	55-3/4

All dimensions in inches. Maximum velocity = 3500 FPM. Size 490 and up requires (2) motors. Gravity units not available on downblast and top angular down discharges.

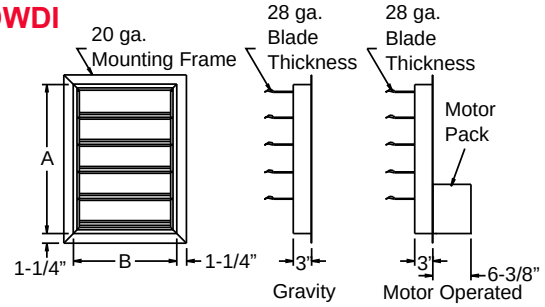
Aluminum Shutter - CA DWDI



Size	Shutter Model Number*				A	B
	Gravity		Motor Operated			
	Standard Duty	Heavy Duty	Standard Duty	Heavy Duty		
120	ADSS-120D	ADSH-120D	MDSS-120D	MDSH-120D	12-1/8	17-11/16
135	ADSS-135D	ADSH-135D	MDSS-135D	MDSH-135D	13-5/8	19-15/16
150	ADSS-150D	ADSH-150D	MDSS-150D	MDSH-150D	15-1/4	22
165	ADSS-165D	ADSH-165D	MDSS-165D	MDSH-150D	16-15/16	24
180	ADSS-180D	ADSH-180D	MDSS-180D	MDSH-180D	18-1/2	26-1/16
195	ADSS-195D	ADSH-195D	MDSS-195D	MDSH-195D	19-1/2	28-7/16
210	ADSS-210D	ADSH-210D	MDSS-210D	MDSH-210D	21-5/8	30-3/8
225	ADSS-225D	ADSH-225D	MDSS-225D	MDSH-225D	23-3/16	32-1/2
245	ADSS-245D	ADSH-245D	MDSS-245D	MDSH-245D	25-1/2	35-1/16
270	ADSS-270D	ADSH-270D	MDSS-270D	MDSH-270D	27-1/2	39-7/16
300	ADSS-300D	ADSH-300D	MDSS-300D	MDSH-300D	31-3/16	43
330	ADSS-330D	ADSH-330D	MDSS-330D	MDSH-330D	34-1/2	47-1/16
365	ADSS-365D	ADSH-365D	MDSS-365D	MDSH-365D	38-11/16	52-3/16
402	ADSS-402D	ADSH-402D	MDSS-402D	MDSH-402D	41-3/4	57-13/16
445	ADSS-445D	ADSH-445D	MDSS-445D	MDSH-445D	45-15/16	64-1/4
490	ADSS-490D	ADSH-490D	MDSS-490D	MDSH-490D	51	70-1/8
540	ADSS-540D	ADSH-540D	MDSS-540D	MDSH-540D	55-3/4	77-15/16
600	ADSS-600D	ADSH-600D	MDSS-600D	MDSH-600D	62-3/16	86-1/4
660	ADSS-660D	ADSH-660D	MDSS-660D	MDSH-660D	68-7/16	94-7/8
730	ADSS-730D	ADSH-730D	MDSS-730D	MDSH-730D	75-13/16	104-3/4

*Use standard duty shutter for discharge velocities up to 2000 FPM. Use heavy duty shutter for discharge velocities of 2000 FPM to 3000 FPM. Above 3000 FPM, consult factory. All dimensions in inches. Gravity units not available on downblast and top angular down discharges.

Galvanized Shutter - CA DWDI



Size	Shutter Model Number*		A	B
	Gravity	Motor Operated		
120	ADSG-120D	MDSG-120D	12-1/8	17-11/16
135	ADSG-135D	MDSG-135D	13-5/8	19-15/16
150	ADSG-150D	MDSG-150D	15-1/4	22
165	ADSG-165D	MDSG-165D	16-15/16	24
180	ADSG-180D	MDSG-180D	18-1/2	26-1/16
195	ADSG-195D	MDSG-195D	19-1/2	28-7/16
210	ADSG-210D	MDSG-210D	21-5/8	30-3/8
225	ADSG-225D	MDSG-225D	23-3/16	32-1/2
245	ADSG-245D	MDSG-245D	25-1/2	35-1/16
270	ADSG-270D	MDSG-270D	27-1/2	39-7/16
300	ADSG-300D	MDSG-300D	31-3/16	43
330	ADSG-330D	MDSG-330D	34-1/2	47-1/16
365	ADSG-365D	MDSG-365D	38-11/16	52-3/16
402	ADSG-402D	MDSG-402D	41-3/4	57-13/16
445	ADSG-445D	MDSG-445D	45-15/16	64-1/4
490	ADSG-490D	MDSG-490D	51	70-1/8
540	ADSG-540D	MDSG-540D	55-3/4	77-15/16
600	ADSG-600D	MDSG-600D	62-3/16	86-1/4
660	ADSG-660D	MDSG-660D	68-7/16	94-7/8
730	ADSG-730D	MDSG-730D	75-13/16	104-3/4

*Use standard duty shutter for discharge velocities up to 2000 FPM. Use heavy duty shutter for discharge velocities of 2000 FPM to 3000 FPM. Above 3000 FPM, consult factory. All dimensions in inches. Gravity units not available on downblast and top angular down discharges.

120 CA SWSI

Wheel Diameter = 12”
Wheel Type = Airfoil
Tip Speed (FPM) = 3.14 x RPM
Max. BHP = .058 (RPM/1000)^3
Inlet Area = .92 Sq. Ft.
Outlet Area = .84 Sq. Ft.
Outlet Velocity (FPM) = CFM/.84

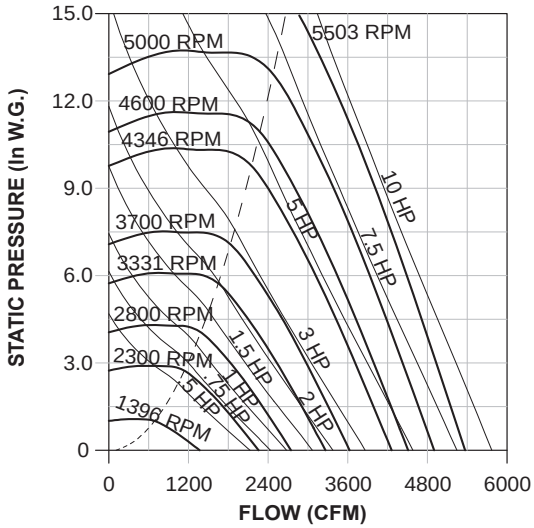
Class I Max. RPM - 3331
Class II Max. RPM - 4346
Class III Max. RPM - 5503

120 CF

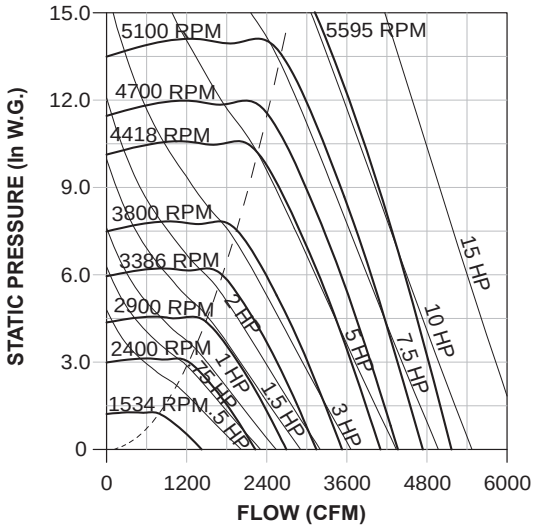
Wheel Diameter = 12”
Wheel Type = Flat Blade
Tip Speed (FPM) = 3.14 x RPM
Max. BHP = .060 (RPM/1000)^3
Inlet Area = .92 Sq. Ft.
Outlet Area = .84 Sq. Ft.
Outlet Velocity (FPM) = CFM/.84

Class I Max. RPM - 3386
Class II Max. RPM - 4418
Class III Max. RPM - 5595

120 CA SWSI



120 CF



120 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
700	835	1396	.15																		
950	1134	1544	.21	1757	.30																
1200	1433	1719	.29	1915	.40	2091	.51	2413	.75												
1450	1731	1914	.40	2091	.53	2255	.66	2549	.93	2816	1.21										
1700	2030	2121	.54	2283	.69	2433	.83	2710	1.14	2959	1.46	3190	1.78	3413	2.13						
1950	2328	2338	.71	2487	.88	2626	1.04	2883	1.38	3121	1.74	3339	2.10	3544	2.47	3935	3.25				
2200	2627	2561	.92	2699	1.11	2829	1.29	3069	1.67	3293	2.06	3502	2.46	3699	2.87	4062	3.71	4409	4.59		
2450	2925	2790	1.17	2918	1.38	3039	1.58	3265	2.00	3475	2.42	3674	2.86	3863	3.31	4213	4.22	4536	5.16	4848	6.13
2700	3224	3022	1.47	3142	1.69	3256	1.92	3469	2.38	3668	2.85	3856	3.31	4036	3.79	4375	4.79	4686	5.80	4979	6.83
2950	3522	3258	1.82	3370	2.07	3477	2.31	3679	2.82	3868	3.32	4047	3.83	4218	4.34	4543	5.40	4846	6.49	5129	7.60
3200	3821	3496	2.23	3602	2.49	3703	2.76	3895	3.31	4075	3.86	4245	4.40	4409	4.95	4720	6.07	5013	7.24	5288	8.43
3450	4119	3736	2.70	3835	2.98	3932	3.27	4114	3.86	4285	4.44	4449	5.03	4606	5.62	4904	6.82	5186	8.05	5454	9.31
3700	4418	3979	3.24	4073	3.55	4163	3.85	4337	4.48	4501	5.11	4658	5.74	4809	6.37	5095	7.63	5366	8.93		
3950	4716	4222	3.85	4311	4.18	4396	4.50	4563	5.17	4721	5.84	4871	6.51	5016	7.18	5291	8.53				
4200	5015	4466	4.54	4551	4.88	4634	5.23	4792	5.93	4943	6.64	5088	7.36	5226	8.07						
4450	5314	4714	5.32	4793	5.68	4871	6.04	5022	6.78	5168	7.53	5308	8.29	5441	9.04						
4700	5612	4961	6.18	5038	6.56	5112	6.94	5257	7.72	5395	8.50										
4950	5911	5207	7.12	5280	7.52	5351	7.92														

120 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
950	1134	1534	.22	1738	.31																
1200	1433	1724	.31	1905	.41	2070	.53														
1450	1731	1933	.43	2096	.55	2247	.68	2523	.96	2783	1.26										
1700	2030	2157	.58	2302	.72	2441	.87	2696	1.17	2930	1.50	3153	1.85								
1950	2328	2391	.78	2522	.94	2647	1.10	2885	1.44	3104	1.79	3308	2.16	3505	2.55						
2200	2627	2632	1.02	2752	1.20	2866	1.38	3085	1.75	3292	2.14	3484	2.53	3668	2.95	4016	3.83				
2450	2925	2878	1.31	2987	1.51	3093	1.71	3296	2.12	3489	2.54	3673	2.97	3847	3.41	4173	4.34	4485	5.33		
2700	3224	3128	1.65	3229	1.88	3327	2.10	3515	2.54	3696	3.00	3869	3.46	4036	3.94	4348	4.92	4641	5.96	4922	7.05
2950	3522	3381	2.06	3475	2.30	3567	2.55	3742	3.03	3910	3.52	4074	4.02	4232	4.53	4532	5.58	4812	6.67	5078	7.81
3200	3821	3635	2.53	3723	2.80	3810	3.07	3973	3.59	4133	4.12	4287	4.65	4437	5.20	4724	6.31	4993	7.46	5249	8.65
3450	4119	3893	3.09	3975	3.37	4056	3.66	4210	4.22	4360	4.79	4505	5.36	4648	5.94	4922	7.12	5183	8.34	5429	9.59
3700	4418	4150	3.71	4229	4.02	4304	4.32	4451	4.94	4593	5.54	4731	6.15	4866	6.77	5127	8.02	5378	9.30		
3950	4716	4411	4.43	4482	4.74	4556	5.08	4696	5.74	4830	6.38	4961	7.03	5089	7.68	5337	9.00				
4200	5015	4673	5.24	4742	5.58	4810	5.93	4942	6.62	5071	7.32	5195	8.00	5317	8.69	5555	10.10				
4450	5314	4933	6.13	4999	6.50	5064	6.87	5189	7.60	5314	8.35	5432	9.07	5550	9.81						
4700	5612	5192	7.11	5257	7.51	5320	7.91	5442	8.70	5557	9.46										
4950	5911	5459	8.25	5520	8.66																

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 CA SWSI

Wheel Diameter = 13.5”
Wheel Type = Airfoil
Tip Speed (FPM) = 3.53 x RPM
Max. BHP = .10 (RPM/1000)^3
Inlet Area = 1.12 Sq. Ft.
Outlet Area = 1.06 Sq. Ft.
Outlet Velocity (FPM) = CFM/1.06

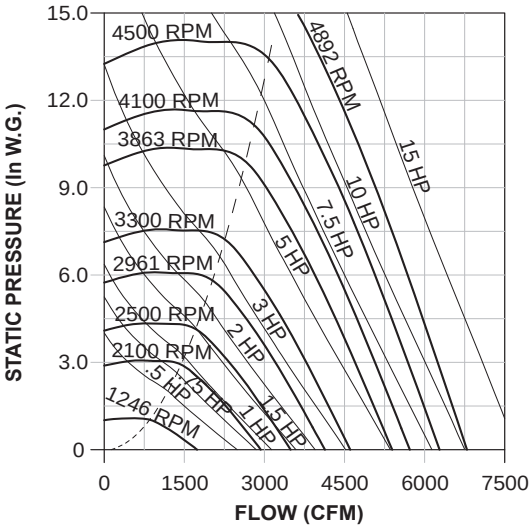
Class I Max. RPM - 2961
Class II Max. RPM - 3863
Class III Max. RPM - 4892

135 CF

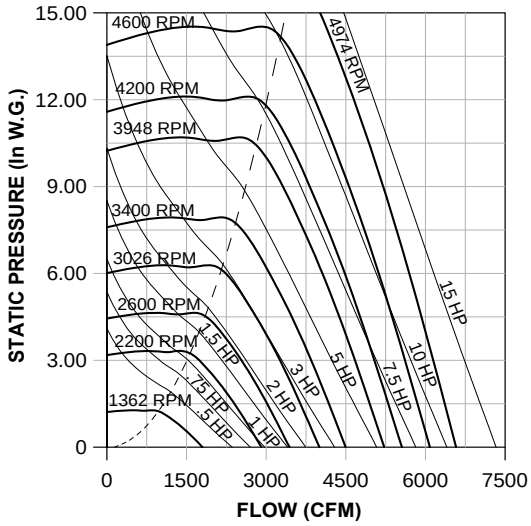
Wheel Diameter = 13.5”
Wheel Type = Flat Blade
Tip Speed (FPM) = 3.53 x RPM
Max. BHP = .12 (RPM/1000)^3
Inlet Area = 1.12 Sq. Ft.
Outlet Area = 1.06 Sq. Ft.
Outlet Velocity (FPM) = CFM/1.06

Class I Max. RPM - 3026
Class II Max. RPM - 3948
Class III Max. RPM - 4974

135 CA SWSI



135 CF



135 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	852	1246	.19																		
1200	1136	1371	.27	1561	.38																
1500	1420	1518	.36	1693	.50	1850	.64														
1800	1704	1681	.49	1840	.65	1987	.81	2250	1.15	2491	1.50										
2100	1988	1855	.65	2001	.83	2136	1.01	2385	1.40	2608	1.79	2815	2.20								
2400	2272	2036	.85	2171	1.05	2297	1.26	2529	1.68	2742	2.12	2938	2.57	3122	3.03						
2700	2556	2223	1.09	2349	1.32	2466	1.55	2683	2.01	2885	2.49	3074	2.99	3250	3.50	3578	4.53				
3000	2840	2414	1.37	2531	1.63	2642	1.88	2846	2.39	3037	2.92	3217	3.46	3386	4.01	3701	5.13	3993	6.28		
3300	3124	2609	1.71	2719	1.99	2822	2.27	3016	2.83	3196	3.40	3367	3.97	3530	4.57	3835	5.79	4115	7.03	4380	8.30
3600	3408	2807	2.11	2909	2.41	3007	2.71	3191	3.33	3363	3.94	3525	4.56	3681	5.19	3975	6.50	4247	7.84	4501	9.19
3900	3692	3006	2.56	3103	2.89	3195	3.22	3371	3.88	3534	4.55	3689	5.21	3838	5.89	4120	7.27	4385	8.71	4633	10.20
4200	3976	3209	3.10	3300	3.44	3387	3.79	3553	4.50	3710	5.22	3859	5.94	4002	6.66	4273	8.12	4528	9.63	4770	11.20
4500	4260	3410	3.69	3498	4.07	3581	4.44	3739	5.20	3890	5.97	4033	6.74	4170	7.51	4430	9.05	4677	10.60		
4800	4544	3617	4.38	3697	4.76	3778	5.17	3928	5.97	4073	6.79	4210	7.61	4342	8.43	4593	10.10	4831	11.70		
5100	4828	3821	5.14	3900	5.56	3975	5.98	4120	6.83	4258	7.70	4390	8.57	4518	9.44	4761	11.20				
5400	5112	4028	6.00	4102	6.43	4175	6.88	4314	7.78	4447	8.70	4574	9.61	4697	10.50						
5700	5396	4237	6.96	4307	7.41	4376	7.88	4509	8.82	4637	9.79	4760	10.80								
6000	5680	4445	8.01	4513	8.50	4579	8.98	4706	9.97	4828	11.00										
6300	5964	4652	9.15	4716	9.65	4779	10.20														

135 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	1136	1362	0.27	1544	0.39																
1500	1420	1522	0.38	1684	0.52	1832	0.66														
1800	1704	1697	0.52	1844	0.68	1979	0.84	2227	1.18	2462	1.56										
2100	1988	1885	0.70	2016	0.88	2141	1.06	2370	1.44	2581	1.84	2783	2.28								
2400	2272	2080	0.92	2199	1.12	2313	1.32	2528	1.74	2724	2.18	2909	2.64	3087	3.13						
2700	2556	2282	1.20	2390	1.42	2495	1.64	2694	2.10	2880	2.58	3055	3.08	3220	3.59	3536	4.69				
3000	2840	2488	1.53	2588	1.78	2685	2.02	2869	2.52	3045	3.04	3210	3.57	3368	4.12	3663	5.27	3947	6.51		
3300	3124	2697	1.92	2790	2.19	2879	2.46	3052	3.01	3216	3.57	3374	4.14	3524	4.72	3806	5.95	4072	7.23	4329	8.59
3600	3408	2909	2.38	2996	2.68	3079	2.97	3240	3.56	3395	4.17	3544	4.78	3687	5.40	3959	6.70	4211	8.05	4454	9.46
3900	3692	3124	2.91	3205	3.24	3283	3.56	3434	4.20	3579	4.84	3720	5.50	3857	6.16	4118	7.54	4361	8.95	4593	10.40
4200	3976	3339	3.52	3416	3.88	3489	4.22	3632	4.91	3769	5.60	3902	6.30	4032	7.01	4282	8.46	4518	9.96	4741	11.50
4500	4260	3557	4.23	3628	4.60	3698	4.97	3833	5.72	3963	6.45	4090	7.20	4213	7.95	4451	9.47	4680	11.10	4896	12.70
4800	4544	3773	5.01	3843	5.42	3909	5.82	4037	6.61	4161	7.40	4281	8.19	4398	8.98	4627	10.60	4846	12.30		
5100	4828	3995	5.92	4057	6.33	4120	6.75	4243	7.60	4361	8.44	4476	9.28	4588	10.10	4806	11.80				
5400	5112	4216	6.92	4276	7.36	4335	7.80	4452	8.70	4564	9.59	4674	10.50	4781	11.40						
5700	5396	4435	8.02	4492	8.48	4549	8.95	4660	9.90	4770	10.90	4874	11.80								
6000	5680	4654	9.23	4711	9.73	4766	10.20	4873	11.20												

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 CA SWSI

Wheel Diameter = 15”
Wheel Type = Airfoil
Tip Speed (FPM) = 3.93 x RPM
Max. BHP = .19 (RPM/1000)^3
Inlet Area = 1.39 Sq. Ft.
Outlet Area = 1.31 Sq. Ft.
Outlet Velocity (FPM) = CFM/1.31

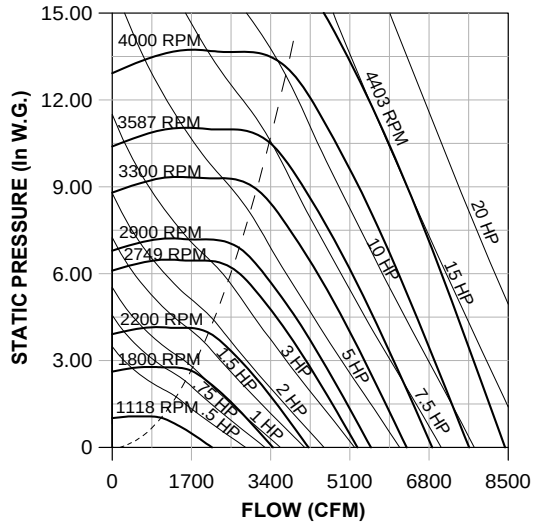
Class I Max. RPM - 2749
Class II Max. RPM - 3587
Class III Max. RPM - 4403

150 CF

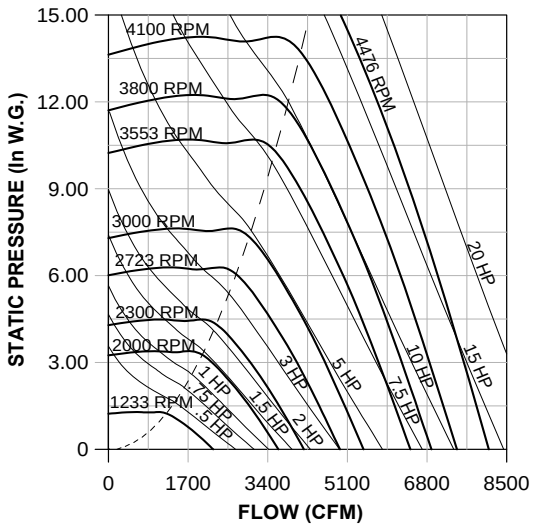
Wheel Diameter = 15”
Wheel Type = Flat Blade
Tip Speed (FPM) = 3.93 x RPM
Max. BHP = .21 (RPM/1000)^3
Inlet Area = 1.39 Sq. Ft.
Outlet Area = 1.31 Sq. Ft.
Outlet Velocity (FPM) = CFM/1.31

Class I Max. RPM - 2723
Class II Max. RPM - 3553
Class III Max. RPM - 4476

150 CA SWSI



150 CF



150 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1100	842	1118	0.23																		
1500	1148	1240	0.33	1411	0.47																
1900	1455	1385	0.47	1541	0.64	1681	0.82	1936	1.19												
2300	1761	1545	0.65	1686	0.85	1816	1.05	2050	1.48	2262	1.92										
2700	2068	1716	0.87	1844	1.10	1963	1.33	2183	1.82	2381	2.33	2564	2.84	2741	3.38						
3100	2374	1895	1.15	2012	1.41	2122	1.68	2326	2.22	2515	2.79	2689	3.36	2851	3.95	3161	5.17				
3500	2680	2078	1.49	2187	1.79	2290	2.09	2480	2.69	2657	3.30	2823	3.94	2980	4.60	3268	5.91	3542	7.30		
3900	2987	2266	1.91	2367	2.24	2463	2.57	2642	3.23	2808	3.90	2965	4.59	3116	5.31	3394	6.76	3650	8.23	3896	9.77
4300	3293	2457	2.40	2552	2.76	2641	3.13	2810	3.86	2967	4.59	3116	5.34	3259	6.10	3528	7.68	3775	9.28	4007	10.90
4700	3599	2650	2.98	2739	3.37	2824	3.77	2983	4.57	3132	5.37	3274	6.18	3410	6.99	3667	8.67	3908	10.40	4132	12.20
5100	3906	2846	3.66	2929	4.08	3009	4.51	3160	5.38	3302	6.25	3437	7.12	3567	7.99	3813	9.77	4045	11.60	4264	13.50
5500	4212	3042	4.44	3122	4.90	3197	5.36	3340	6.28	3477	7.23	3606	8.17	3730	9.10	3965	11.00	4188	12.90	4401	15.00
5900	4518	3243	5.35	3315	5.82	3388	6.32	3524	7.31	3654	8.31	3778	9.32	3896	10.30	4123	12.30	4338	14.40		
6300	4825	3441	6.36	3513	6.88	3580	7.40	3710	8.45	3834	9.51	3953	10.60	4068	11.70	4286	13.80				
6700	5131	3643	7.51	3708	8.04	3774	8.60	3899	9.72	4018	10.90	4131	12.00	4242	13.10						
7100	5438	3846	8.81	3908	9.37	3970	9.96	4089	11.10	4203	12.30	4312	13.50								
7500	5744	4048	10.20	4108	10.80	4167	11.50	4280	12.70	4390	13.90										
7900	6050	4248	11.80	4305	12.40	4363	13.10														

150 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	1148	1233	0.34	1395	0.49																
1900	1455	1390	0.49	1533	0.66	1665	0.84														
2300	1761	1562	0.69	1691	0.88	1811	1.09	2030	1.52	2235	1.99										
2700	2068	1746	0.94	1861	1.16	1971	1.39	2174	1.88	2359	2.39	2535	2.93								
3100	2374	1939	1.26	2042	1.51	2141	1.77	2330	2.31	2503	2.87	2665	3.45	2821	4.07						
3500	2680	2137	1.65	2231	1.94	2321	2.23	2495	2.82	2658	3.43	2812	4.07	2957	4.72	3232	6.10				
3900	2987	2339	2.13	2426	2.46	2509	2.78	2668	3.42	2821	4.09	2967	4.77	3105	5.47	3364	6.94	3610	8.50	3850	10.20
4300	3293	2544	2.71	2624	3.06	2701	3.41	2849	4.12	2991	4.84	3129	5.58	3261	6.33	3508	7.89	3740	9.53	3963	11.30
4700	3599	2752	3.38	2826	3.77	2898	4.16	3035	4.93	3169	5.71	3298	6.50	3423	7.31	3661	8.97	3883	10.70	4093	12.50
5100	3906	2960	4.16	3030	4.59	3098	5.02	3227	5.85	3352	6.69	3473	7.54	3592	8.40	3819	10.20	4033	12.00	4235	13.90
5500	4212	3172	5.08	3236	5.53	3300	5.99	3423	6.90	3540	7.80	3655	8.71	3766	9.62	3983	11.50	4189	13.40	4385	15.40
5900	4518	3382	6.11	3445	6.61	3505	7.11	3620	8.08	3732	9.05	3841	10.00	3946	11.00	4152	13.00	4350	15.00		
6300	4825	3598	7.32	3654	7.83	3710	8.35	3821	9.40	3927	10.40	4030	11.50	4130	12.50	4327	14.60				
6700	5131	3812	8.66	3866	9.21	3920	9.77	4024	10.90	4124	12.00	4223	13.10	4318	14.20						
7100	5438	4025	10.10	4077	10.70	4127	11.30	4227	12.50	4325	13.70	4418	14.80								
7500	5744	4239	11.80	4290	12.40	4339	13.10	4434	14.30												

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).

165 CA SWSI

Wheel Diameter = 16.5”
Wheel Type = Airfoil
Tip Speed (FPM) = 4.32 x RPM
Max. BHP = .30 (RPM/1000)^3
Inlet Area = 1.67 Sq. Ft.
Outlet Area = 1.59 Sq. Ft.
Outlet Velocity (FPM) = CFM/1.59

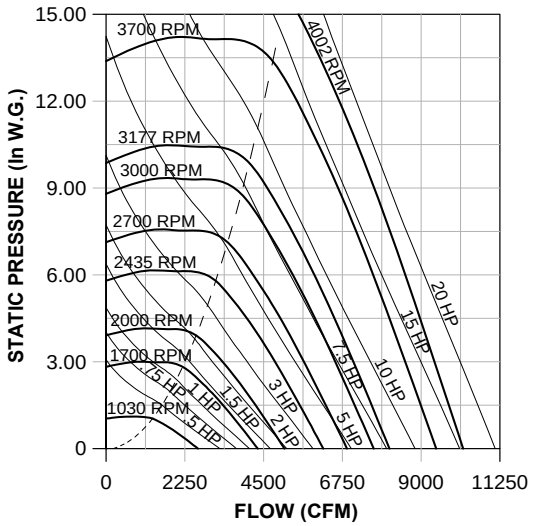
Class I Max. RPM - 2435
Class II Max. RPM - 3177
Class III Max. RPM - 4002

165 CF

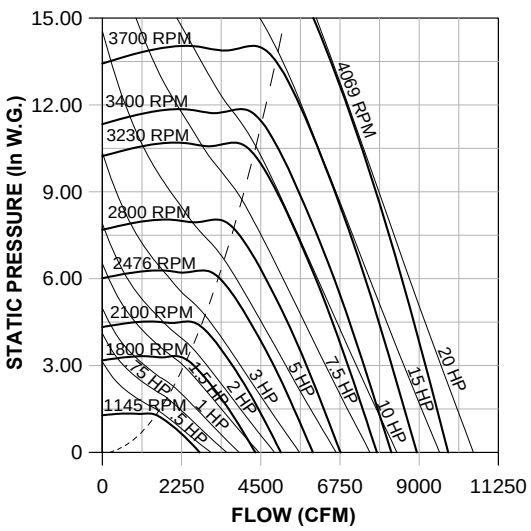
Wheel Diameter = 16.5”
Wheel Type = Flat Blade
Tip Speed (FPM) = 4.32 x RPM
Max. BHP = .33 (RPM/1000)^3
Inlet Area = 1.67 Sq. Ft.
Outlet Area = 1.59 Sq. Ft.
Outlet Velocity (FPM) = CFM/1.59

Class I Max. RPM - 2476
Class II Max. RPM - 3230
Class III Max. RPM - 4069

165 CA SWSI



165 CF



165 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1400	884	1030	0.29																		
1900	1199	1149	0.43	1302	0.61	1441	0.79														
2400	1515	1288	0.61	1427	0.82	1553	1.05	1779	1.51												
2900	1831	1442	0.84	1566	1.09	1682	1.35	1892	1.89	2080	2.44										
3400	2147	1604	1.14	1718	1.43	1824	1.72	2019	2.33	2197	2.96	2360	3.60	2517	4.27						
3900	2462	1773	1.51	1878	1.84	1975	2.17	2157	2.85	2325	3.55	2481	4.28	2627	5.01	2901	6.52				
4400	2778	1947	1.97	2044	2.34	2135	2.72	2304	3.47	2461	4.23	2610	5.03	2750	5.84	3009	7.49	3251	9.20		
4900	3094	2124	2.52	2214	2.93	2299	3.35	2458	4.18	2606	5.02	2746	5.88	2880	6.76	3131	8.59	3360	10.40	3577	12.30
5400	3409	2305	3.18	2388	3.63	2468	4.09	2618	5.01	2758	5.93	2891	6.86	3018	7.81	3258	9.77	3480	11.80	3688	13.80
5900	3725	2486	3.95	2565	4.44	2640	4.94	2782	5.95	2915	6.95	3041	7.96	3162	8.97	3391	11.10	3607	13.20	3809	15.40
6400	4041	2672	4.86	2745	5.39	2816	5.93	2950	7.01	3077	8.11	3197	9.20	3312	10.30	3531	12.50	3738	14.80	3935	17.20
6900	4357	2858	5.91	2927	6.48	2993	7.05	3121	8.21	3242	9.39	3357	10.60	3467	11.70	3677	14.10	3875	16.50		
7400	4672	3045	7.11	3110	7.71	3173	8.32	3295	9.57	3410	10.80	3520	12.10	3626	13.40	3827	15.90				
7900	4988	3232	8.46	3295	9.11	3355	9.76	3471	11.10	3581	12.40	3687	13.80	3788	15.10	3982	17.80				
8400	5304	3423	10.00	3481	10.70	3537	11.40	3647	12.80	3754	14.20	3856	15.60	3953	17.00						
8900	5620	3614	11.70	3669	12.50	3723	13.20	3828	14.60	3928	16.10										
9400	5935	3802	13.60	3855	14.40	3906	15.10														

165 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1900	1199	1145	0.44	1288	0.62																
2400	1515	1295	0.64	1423	0.85	1540	1.07	1758	1.56												
2900	1831	1460	0.90	1574	1.14	1681	1.40	1875	1.94	2056	2.52										
3400	2147	1635	1.23	1736	1.51	1833	1.80	2014	2.41	2179	3.04	2335	3.71	2487	4.42						
3900	2462	1818	1.66	1909	1.98	1996	2.30	2163	2.97	2318	3.67	2463	4.39	2601	5.15	2867	6.77				
4400	2778	2005	2.19	2088	2.55	2167	2.91	2321	3.65	2466	4.41	2603	5.19	2733	6.01	2978	7.72	3213	9.54		
4900	3094	2195	2.82	2272	3.23	2345	3.63	2487	4.45	2622	5.27	2751	6.12	2875	7.00	3106	8.81	3324	10.70	3536	12.80
5400	3409	2388	3.58	2460	4.04	2528	4.48	2659	5.37	2785	6.27	2906	7.18	3024	8.13	3245	10.10	3451	12.10	3649	14.20
5900	3725	2585	4.49	2650	4.98	2714	5.47	2836	6.44	2954	7.41	3067	8.39	3179	9.41	3390	11.50	3589	13.60	3777	15.80
6400	4041	2782	5.55	2843	6.08	2902	6.60	3018	7.67	3128	8.71	3235	9.77	3340	10.80	3542	13.00	3733	15.30	3913	17.60
6900	4357	2981	6.77	3038	7.34	3093	7.90	3202	9.05	3306	10.20	3407	11.30	3506	12.50	3698	14.80	3882	17.20	4057	19.70
7400	4672	3180	8.16	3234	8.77	3287	9.39	3390	10.60	3488	11.80	3584	13.00	3678	14.30	3859	16.70	4036	19.30		
7900	4988	3382	9.76	3432	10.40	3482	11.10	3579	12.40	3673	13.70	3763	15.00	3853	16.30	4026	18.90				
8400	5304	3582	11.50	3630	12.20	3678	12.90	3769	14.30	3860	15.70	3945	17.10	4031	18.50						
8900	5620	3782	13.50	3829	14.30	3875	15.00	3963	16.50	4047	18.00										
9400	5935	3987	15.80	4031	16.60																

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).

180 CA SWSI

Wheel Diameter = 18"
Wheel Type = Airfoil
Tip Speed (FPM) = 4.71 x RPM
Max. BHP = .52 (RPM/1000)^3
Inlet Area = 2.03 Sq. Ft.
Outlet Area = 1.88 Sq. Ft.
Outlet Velocity (FPM) = CFM/1.88

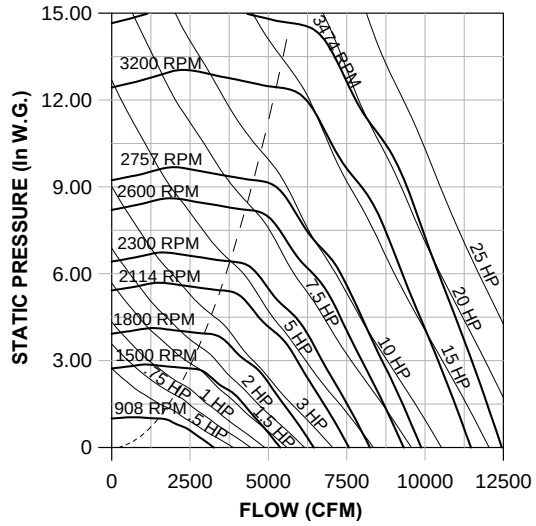
Class I Max. RPM - 2114
Class II Max. RPM - 2757
Class III Max. RPM - 3474

180 CF

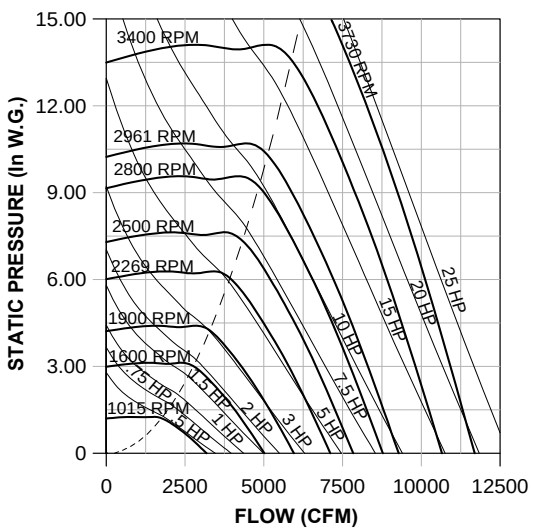
Wheel Diameter = 18"
Wheel Type = Flat Blade
Tip Speed (FPM) = 4.71 x RPM
Max. BHP = .43 (RPM/1000)^3
Inlet Area = 2.03 Sq. Ft.
Outlet Area = 1.88 Sq. Ft.
Outlet Velocity (FPM) = CFM/1.88

Class I Max. RPM - 2269
Class II Max. RPM - 2961
Class III Max. RPM - 3730

180 CA SWSI



180 CF



180 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		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																		
2100	1117	976	0.43	1122	0.62																
2700	1436	1073	0.61	1219	0.85	1331	1.08	1574	1.64												
3300	1755	1193	0.83	1314	1.11	1439	1.41	1629	1.97	1823	2.63										
3900	2074	1333	1.14	1430	1.44	1531	1.76	1738	2.46	1896	3.13	2054	3.86	2227	4.70						
4500	2393	1476	1.50	1568	1.87	1651	2.22	1832	2.99	2007	3.79	2145	4.55	2278	5.35	2572	7.23				
5100	2712	1620	1.94	1709	2.37	1788	2.77	1935	3.58	2101	4.48	2256	5.40	2382	6.26	2617	8.08	2878	10.20		
5700	3032	1769	2.48	1853	2.96	1929	3.42	2064	4.32	2198	5.24	2349	6.26	2490	7.29	2715	9.23	2925	11.30	3157	13.60
6300	3351	1921	3.12	1997	3.64	2071	4.16	2202	5.18	2320	6.16	2445	7.20	2581	8.33	2826	10.60	3022	12.70	3212	15.00
6900	3670	2075	3.88	2146	4.44	2216	5.02	2344	6.15	2456	7.24	2564	8.32	2678	9.47	2926	12.00	3134	14.40	3310	16.70
7500	3989	2231	4.77	2296	5.36	2362	5.99	2486	7.24	2596	8.44	2696	9.60	2796	10.80	3014	13.40	3238	16.10	3422	18.70
8100	4308	2390	5.80	2450	6.43	2511	7.09	2629	8.44	2738	9.78	2835	11.10	2927	12.30	3115	14.90	3328	17.80		
8700	4627	2548	6.97	2606	7.66	2662	8.35	2774	9.79	2880	11.20	2976	12.60	3066	14.00	3237	16.70	3420	19.70		
9300	4947	2709	8.32	2762	9.03	2816	9.77	2922	11.30	3023	12.90	3118	14.40	3207	15.90	3368	18.80				
9900	5266	2872	9.86	2922	10.60	2971	11.40	3071	13.00	3168	14.60	3260	16.30	3348	17.90						
10500	5585	3033	11.50	3080	12.30	3128	13.20	3221	14.80	3315	16.60	3404	18.30								
11100	5904	3193	13.40	3239	14.30	3285	15.10	3375	16.90	3462	18.70										
11700	6223	3359	15.60	3402	16.40	3445	17.30														

180 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2100	1117	1015	0.48	1152	0.68																
2700	1436	1150	0.69	1270	0.93	1380	1.19														
3300	1755	1298	0.98	1406	1.26	1507	1.56	1689	2.18	1861	2.86										
3900	2074	1458	1.36	1554	1.68	1645	2.02	1814	2.72	1968	3.45	2114	4.24								
4500	2393	1626	1.85	1711	2.21	1794	2.59	1949	3.36	2094	4.18	2228	5.02	2357	5.91						
5100	2712	1799	2.45	1876	2.87	1951	3.29	2094	4.15	2229	5.03	2356	5.95	2476	6.90	2704	8.90	2925	11.10		
5700	3032	1974	3.18	2045	3.65	2114	4.12	2245	5.06	2371	6.03	2492	7.03	2606	8.05	2820	10.20	3023	12.40	3220	14.80
6300	3351	2152	4.06	2218	4.59	2281	5.10	2403	6.14	2520	7.19	2633	8.27	2742	9.37	2947	11.60	3138	14.00	3321	16.50
6900	3670	2333	5.12	2394	5.69	2452	6.25	2566	7.39	2675	8.52	2782	9.69	2884	10.90	3081	13.30	3264	15.80	3438	18.40
7500	3989	2515	6.34	2572	6.97	2626	7.58	2734	8.83	2836	10.10	2935	11.30	3032	12.60	3219	15.10	3396	17.80	3563	20.60
8100	4308	2699	7.77	2751	8.43	2803	9.11	2904	10.50	3000	11.80	3094	13.10	3185	14.50	3363	17.20	3533	20.00	3694	22.90
8700	4627	2882	9.39	2932	10.10	2982	10.90	3077	12.30	3168	13.70	3256	15.10	3343	16.60	3511	19.50	3674	22.50		
9300	4947	3069	11.30	3115	12.00	3161	12.80	3250	14.30	3338	15.90	3421	17.40	3504	18.90	3664	22.00				
9900	5266	3254	13.40	3299	14.20	3342	15.00	3427	16.60	3510	18.30	3590	19.90	3669	21.60						
10500	5585	3438	15.70	3481	16.60	3524	17.50	3606	19.20	3684	21.00										
11100	5904	3628	18.40	3668	19.30	3708	20.20														

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 CA SWSI

Wheel Diameter = 19.5”
Wheel Type = Airfoil
Tip Speed (FPM) = 5.11 x RPM
Max. BHP = .77 (RPM/1000)^3
Inlet Area = 2.31 Sq. Ft.
Outlet Area = 2.21 Sq. Ft.
Outlet Velocity (FPM) = CFM/2.21

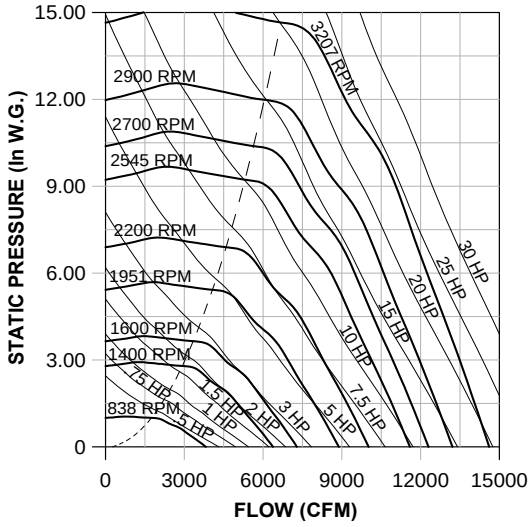
Class I Max. RPM - 1951
Class II Max. RPM - 2545
Class III Max. RPM - 3207

195 CF

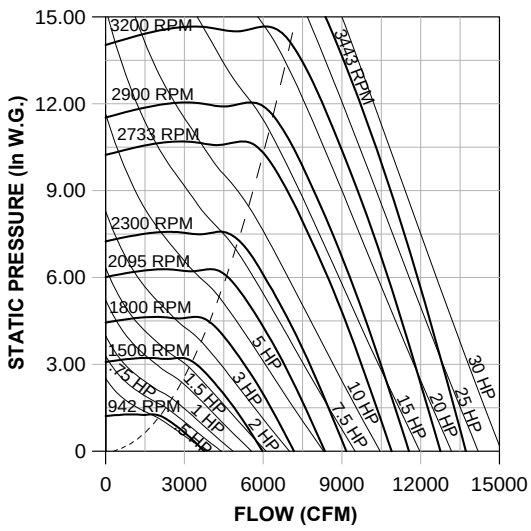
Wheel Diameter = 19.5”
Wheel Type = Flat Blade
Tip Speed (FPM) = 5.11 x RPM
Max. BHP = .64 (RPM/1000)^3
Inlet Area = 2.31 Sq. Ft.
Outlet Area = 2.21 Sq. Ft.
Outlet Velocity (FPM) = CFM/2.21

Class I Max. RPM - 2095
Class II Max. RPM - 2733
Class III Max. RPM - 3443

195 CA SWSI



195 CF



195 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		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																		
2500	1130	906	0.52	1038	0.74	1185	1.02														
3200	1447	995	0.72	1130	1.01	1233	1.28	1454	1.94												
3900	1764	1107	0.99	1216	1.31	1332	1.67	1508	2.34	1685	3.11										
4600	2080	1235	1.35	1324	1.70	1417	2.09	1608	2.91	1754	3.70	1898	4.55	2057	5.54						
5300	2397	1366	1.78	1451	2.20	1527	2.62	1694	3.52	1855	4.47	1983	5.37	2105	6.30	2375	8.51				
6000	2713	1498	2.29	1581	2.79	1653	3.27	1789	4.22	1942	5.28	2085	6.36	2201	7.37	2417	9.49	2658	12.00		
6700	3030	1635	2.92	1712	3.48	1783	4.03	1907	5.08	2031	6.16	2170	7.37	2300	8.57	2508	10.90	2702	13.30	2915	16.00
7400	3347	1774	3.67	1845	4.28	1913	4.89	2034	6.08	2143	7.24	2258	8.46	2384	9.79	2610	12.40	2791	14.90	2966	17.60
8100	3663	1916	4.56	1981	5.21	2046	5.89	2164	7.22	2267	8.49	2367	9.76	2472	11.10	2701	14.00	2893	16.90	3057	19.60
8800	3980	2059	5.59	2119	6.28	2180	7.02	2294	8.48	2396	9.90	2489	11.30	2581	12.70	2783	15.70	2989	18.90	3159	21.90
9500	4297	2205	6.80	2261	7.54	2317	8.31	2426	9.90	2526	11.50	2616	13.00	2701	14.40	2876	17.50	3072	20.90		
10200	4613	2350	8.16	2404	8.97	2455	9.76	2559	11.50	2657	13.20	2746	14.80	2828	16.40	2986	19.60	3157	23.10		
10900	4930	2498	9.73	2546	10.50	2596	11.40	2694	13.20	2788	15.00	2876	16.80	2957	18.60	3107	22.00				
11600	5246	2647	11.50	2693	12.40	2739	13.30	2831	15.20	2921	17.10	3006	19.00	3087	20.90						
12300	5563	2795	13.50	2839	14.40	2882	15.30	2968	17.30	3055	19.40	3138	21.40								
13000	5880	2941	15.60	2984	16.60	3027	17.70	3110	19.70	3190	21.80										
13700	6196	3094	18.10	3134	19.20	3174	20.20														

195 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2500	1130	942	0.57	1068	0.81																
3200	1447	1067	0.82	1178	1.11	1279	1.41														
3900	1764	1204	1.16	1303	1.50	1395	1.84	1563	2.58	1721	3.38										
4600	2080	1351	1.61	1439	2.00	1523	2.39	1678	3.21	1820	4.08	1955	5.00	2088	5.99						
5300	2397	1505	2.18	1584	2.62	1659	3.06	1803	3.97	1936	4.93	2060	5.92	2179	6.97						
6000	2713	1663	2.89	1734	3.38	1803	3.87	1935	4.88	2060	5.93	2177	7.01	2288	8.12	2498	10.50	2702	13.00		
6700	3030	1824	3.75	1890	4.30	1953	4.85	2074	5.96	2191	7.10	2302	8.27	2407	9.47	2605	12.00	2792	14.60	2974	17.40
7400	3347	1988	4.78	2049	5.40	2107	6.00	2219	7.21	2327	8.45	2432	9.72	2533	11.00	2721	13.70	2898	16.50	3067	19.40
8100	3663	2154	6.01	2210	6.68	2264	7.34	2369	8.67	2470	10.00	2568	11.40	2663	12.80	2844	15.60	3013	18.60	3174	21.60
8800	3980	2321	7.44	2374	8.18	2424	8.89	2523	10.40	2617	11.80	2709	13.30	2799	14.70	2971	17.80	3134	20.90	3288	24.10
9500	4297	2489	9.10	2538	9.88	2586	10.70	2679	12.20	2768	13.80	2854	15.40	2938	16.90	3103	20.20	3260	23.50	3409	26.90
10200	4613	2658	11.00	2704	11.80	2750	12.70	2837	14.40	2922	16.10	3003	17.70	3083	19.40	3239	22.80	3389	26.30		
10900	4930	2829	13.20	2872	14.10	2914	15.00	2997	16.80	3078	18.60	3155	20.40	3232	22.20	3379	25.80				
11600	5246	2999	15.60	3040	16.60	3081	17.60	3159	19.50	3235	21.40	3310	23.30	3382	25.20						
12300	5563	3168	18.30	3208	19.40	3247	20.40	3323	22.50	3395	24.50										
13000	5880	3342	21.40	3379	22.50	3416	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).

210 CA SWSI

Wheel Diameter = 21”
Wheel Type = Airfoil
Tip Speed (FPM) = 5.50 x RPM
Max. BHP = 1.12 (RPM/1000)^3
Inlet Area = 2.69 Sq. Ft.
Outlet Area = 2.57 Sq. Ft.
Outlet Velocity (FPM) = CFM/2.57

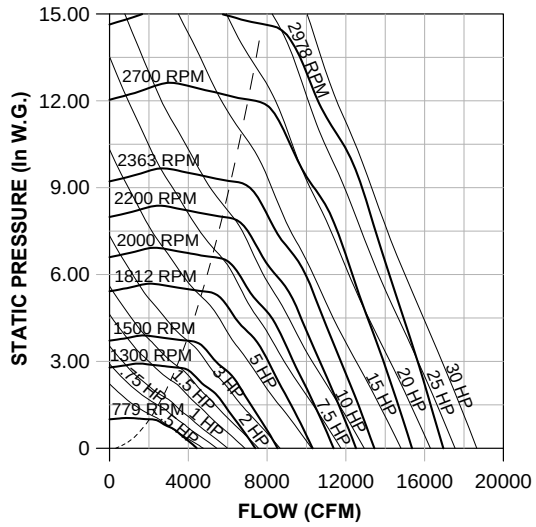
Class I Max. RPM - 1812
Class II Max. RPM - 2363
Class III Max. RPM - 2978

210 CF

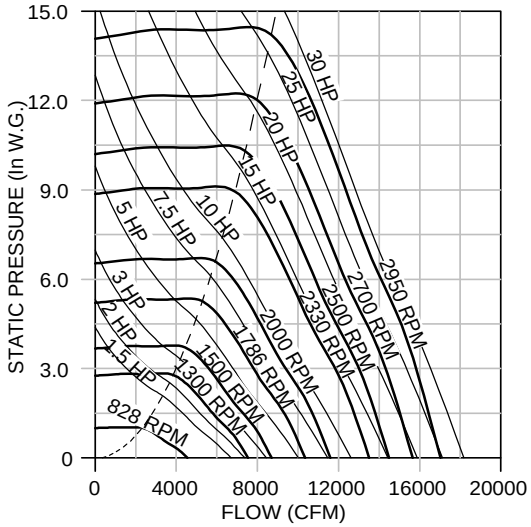
Wheel Diameter = 21”
Wheel Type = Flat Blade
Tip Speed (FPM) = 5.50 x RPM
Max. BHP = 1.11 (RPM/1000)^3
Inlet Area = 2.69 Sq. Ft.
Outlet Area = 2.57 Sq. Ft.
Outlet Velocity (FPM) = CFM/2.57

Class I Max. RPM - 1795
Class II Max. RPM - 2341
Class III Max. RPM - 2950

210 CA SWSI



210 CF



210 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2100	818	779	0.43																		
2900	1130	841	0.60	964	0.86	1101	1.19														
3700	1442	923	0.83	1048	1.16	1144	1.48	1350	2.24												
4500	1754	1024	1.14	1127	1.51	1235	1.92	1398	2.70	1564	3.59										
5300	2065	1142	1.54	1225	1.96	1312	2.40	1489	3.34	1625	4.25	1761	5.25	1910	6.39						
6100	2377	1261	2.03	1340	2.52	1412	3.00	1568	4.04	1718	5.13	1837	6.17	1951	7.25	2205	9.81				
6900	2689	1383	2.62	1459	3.18	1527	3.73	1654	4.83	1798	6.05	1929	7.28	2037	8.45	2241	10.90	2467	13.80		
7700	3001	1507	3.32	1579	3.96	1645	4.59	1761	5.80	1878	7.05	2009	8.44	2129	9.82	2321	12.40	2504	15.20	2706	18.50
8500	3313	1634	4.16	1701	4.86	1765	5.57	1877	6.93	1979	8.26	2087	9.66	2206	11.20	2415	14.20	2583	17.10	2748	20.20
9300	3625	1763	5.15	1825	5.91	1886	6.69	1996	8.22	2092	9.67	2186	11.10	2285	12.70	2500	16.10	2676	19.30	2828	22.40
10100	3936	1895	6.32	1951	7.11	2008	7.95	2115	9.64	2209	11.20	2296	12.80	2382	14.40	2574	17.90	2765	21.60	2921	25.00
10900	4248	2028	7.67	2081	8.52	2133	9.40	2235	11.20	2329	13.00	2413	14.70	2492	16.40	2657	20.00	2842	23.90		
11700	4560	2161	9.20	2211	10.10	2259	11.00	2357	13.00	2448	14.90	2531	16.80	2607	18.60	2756	22.30	2918	26.30		
12500	4872	2295	10.90	2342	11.90	2389	12.90	2480	15.00	2568	17.00	2650	19.10	2725	21.10	2866	25.00				
13300	5184	2432	12.90	2475	13.90	2518	15.00	2605	17.10	2689	19.40	2769	21.60	2844	23.70						
14100	5496	2567	15.10	2609	16.20	2650	17.30	2731	19.60	2812	21.90	2890	24.30	2964	26.60						
14900	5807	2702	17.60	2741	18.70	2781	19.80	2859	22.20	2936	24.70										
15700	6119	2840	20.30	2878	21.50	2915	22.70														

210 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2900	1130	828	0.63	958	0.94																
3700	1442	923	0.88	1030	1.21	1132	1.58														
4500	1754	1030	1.21	1127	1.60	1216	2.00	1384	2.89												
5300	2065	1138	1.63	1233	2.09	1315	2.54	1465	3.49	1607	4.54	1749	5.70								
6100	2377	1244	2.13	1341	2.67	1421	3.19	1560	4.24	1689	5.35	1813	6.55	1936	7.84						
6900	2689	1355	2.74	1448	3.36	1530	3.97	1664	5.14	1784	6.34	1898	7.60	2008	8.93	2225	11.80				
7700	3001	1471	3.47	1554	4.15	1637	4.86	1771	6.17	1886	7.49	1993	8.84	2095	10.20	2292	13.20	2487	16.50		
8500	3313	1594	4.36	1666	5.09	1743	5.86	1880	7.37	1992	8.80	2094	10.20	2191	11.70	2375	14.90	2552	18.20	2729	21.90
9300	3625	1721	5.42	1783	6.19	1851	7.01	1987	8.69	2101	10.30	2200	11.90	2293	13.50	2467	16.70	2633	20.20	2795	23.90
10100	3936	1850	6.67	1905	7.47	1964	8.32	2093	10.20	2209	11.90	2308	13.70	2398	15.40	2565	18.80	2723	22.50	2875	26.30
10900	4248	1980	8.10	2030	8.95	2082	9.83	2200	11.80	2316	13.80	2417	15.70	2506	17.50	2668	21.20	2819	25.00		
11700	4560	2112	9.76	2157	10.60	2205	11.60	2310	13.60	2422	15.70	2525	17.80	2615	19.80	2775	23.80	2920	27.80		
12500	4872	2245	11.60	2287	12.60	2331	13.60	2424	15.60	2528	17.90	2631	20.20	2724	22.40	2883	26.60				
13300	5184	2377	13.70	2417	14.70	2457	15.80	2543	17.90	2638	20.30	2737	22.70	2830	25.10						
14100	5496	2510	16.10	2548	17.20	2587	18.30	2666	20.50	2752	22.90	2844	25.50	2936	28.00						
14900	5807	2647	18.80	2682	19.90	2717	21.00	2789	23.30	2869	25.80										
15700	6119	2783	21.80	2814	22.90	2846	24.00	2917	26.50												
16500	6431	2918	25.10	2946	26.10																

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 CA SWSI

Wheel Diameter = 22.5”
Wheel Type = Airfoil
Tip Speed (FPM) = 5.89 x RPM
Max. BHP = 1.58 (RPM/1000)^3
Inlet Area = 3.02 Sq. Ft.
Outlet Area = 2.94 Sq. Ft.
Outlet Velocity (FPM) = CFM/2.94

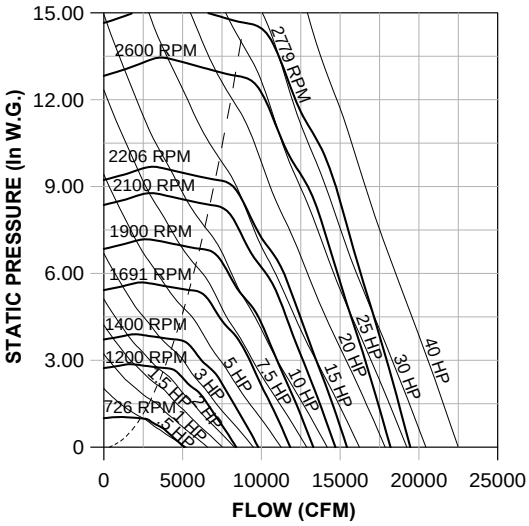
Class I Max. RPM - 1691
Class II Max. RPM - 2206
Class III Max. RPM - 2779

225 CF

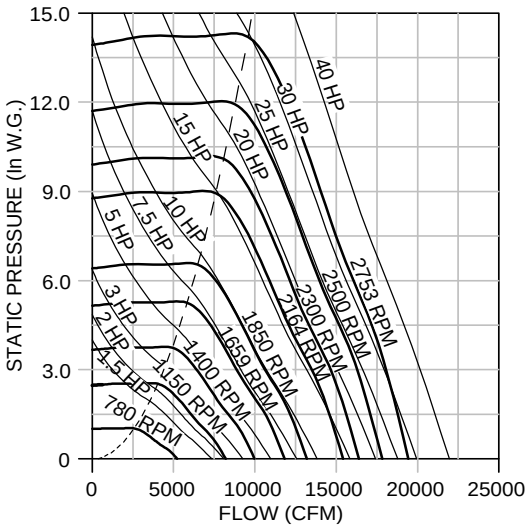
Wheel Diameter = 22.5”
Wheel Type = Flat Blade
Tip Speed (FPM) = 5.89 x RPM
Max. BHP = 1.57 (RPM/1000)^3
Inlet Area = 3.02 Sq. Ft.
Outlet Area = 2.94 Sq. Ft.
Outlet Velocity (FPM) = CFM/2.94

Class I Max. RPM - 1675
Class II Max. RPM - 2185
Class III Max. RPM - 2753

225 CA SWSI



225 CF



225 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2400	816	726	0.49																		
3400	1156	792	0.71	903	1.01	1027	1.38														
4400	1497	874	1.00	992	1.40	1081	1.77	1262	2.64												
5400	1837	983	1.42	1072	1.85	1171	2.34	1325	3.27	1467	4.27	1625	5.47								
6400	2177	1104	1.95	1179	2.45	1253	2.97	1417	4.12	1545	5.20	1662	6.34	1789	7.63						
7400	2517	1226	2.61	1299	3.21	1363	3.79	1495	5.01	1637	6.35	1751	7.61	1852	8.88	2066	11.80				
8400	2857	1351	3.41	1420	4.11	1482	4.78	1594	6.10	1714	7.52	1841	9.06	1946	10.50	2126	13.40	2314	16.70	2517	20.40
9400	3198	1478	4.38	1543	5.16	1603	5.94	1709	7.43	1808	8.91	1917	10.50	2032	12.30	2219	15.50	2378	18.70	2543	22.30
10400	3538	1609	5.55	1668	6.40	1725	7.27	1829	8.98	1920	10.60	2010	12.20	2109	14.00	2310	17.80	2470	21.30	2614	24.90
11400	3878	1743	6.96	1796	7.87	1849	8.80	1950	10.70	2038	12.50	2120	14.30	2202	16.10	2387	20.10	2563	24.20	2707	28.10
12400	4218	1877	8.60	1927	9.58	1976	10.60	2072	12.70	2159	14.70	2238	16.60	2313	18.60	2469	22.60	2643	27.10		
13400	4559	2013	10.50	2059	11.50	2104	12.60	2195	14.80	2280	17.10	2358	19.20	2429	21.30	2568	25.50	2720	30.10		
14400	4899	2149	12.70	2192	13.80	2236	15.00	2321	17.30	2403	19.70	2479	22.10	2549	24.40	2680	28.90				
15400	5239	2288	15.20	2328	16.40	2368	17.60	2448	20.10	2526	22.60	2600	25.20	2670	27.70						
16400	5579	2425	18.00	2464	19.30	2501	20.50	2576	23.10	2651	25.90	2723	28.60								
17400	5919	2562	21.10	2599	22.50	2636	23.80	2707	26.60	2777	29.40										
18400	6260	2704	24.80	2738	26.10	2772	27.50														

225 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3400	1156	780	0.74	898	1.09																
4400	1497	878	1.07	976	1.46	1069	1.89														
5400	1837	987	1.51	1077	1.97	1157	2.44	1310	3.48	1459	4.65										
6400	2177	1096	2.06	1186	2.61	1261	3.15	1397	4.29	1525	5.51	1650	6.84								
7400	2517	1205	2.73	1296	3.40	1370	4.03	1498	5.29	1614	6.61	1725	8.01	1834	9.51						
8400	2857	1321	3.56	1403	4.32	1480	5.07	1605	6.49	1714	7.93	1817	9.44	1916	11.00	2108	14.40				
9400	3198	1443	4.59	1513	5.39	1588	6.26	1715	7.90	1821	9.49	1917	11.10	2009	12.80	2186	16.30	2357	20.10	2529	24.30
10400	3538	1571	5.84	1631	6.70	1697	7.62	1825	9.50	1931	11.30	2024	13.00	2111	14.80	2276	18.50	2435	22.50	2589	26.70
11400	3878	1701	7.33	1754	8.25	1811	9.22	1933	11.30	2041	13.30	2133	15.20	2217	17.10	2375	21.10	2524	25.30	2668	29.60
12400	4218	1833	9.08	1880	10.00	1930	11.10	2041	13.30	2150	15.50	2244	17.70	2327	19.80	2479	24.00	2621	28.40		
13400	4559	1967	11.10	2009	12.10	2055	13.20	2153	15.50	2257	18.00	2354	20.40	2438	22.70	2587	27.20	2722	31.80		
14400	4899	2102	13.50	2142	14.60	2182	15.70	2269	18.10	2365	20.70	2461	23.30	2548	25.90	2696	30.70				
15400	5239	2236	16.10	2273	17.30	2311	18.50	2390	21.00	2477	23.70	2569	26.50	2656	29.30						
16400	5579	2372	19.20	2407	20.40	2443	21.70	2515	24.30	2593	27.00	2679	30.00								
17400	5919	2511	22.60	2543	23.90	2575	25.20	2642	27.90	2714	30.80										
18400	6260	2649	26.50	2677	27.70	2707	29.10														

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 CA SWSI

Wheel Diameter = 24.5”
Wheel Type = Airfoil
Tip Speed (FPM) = 6.41 x RPM
Max. BHP = 2.23 (RPM/1000)^3
Inlet Area = 3.64 Sq. Ft.
Outlet Area = 3.49 Sq. Ft.
Outlet Velocity (FPM) = CFM/3.49

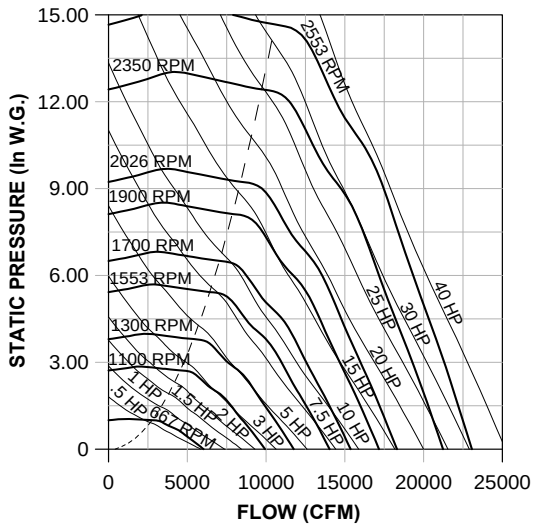
Class I Max. RPM - 1553
Class II Max. RPM - 2026
Class III Max. RPM - 2553

245 CF

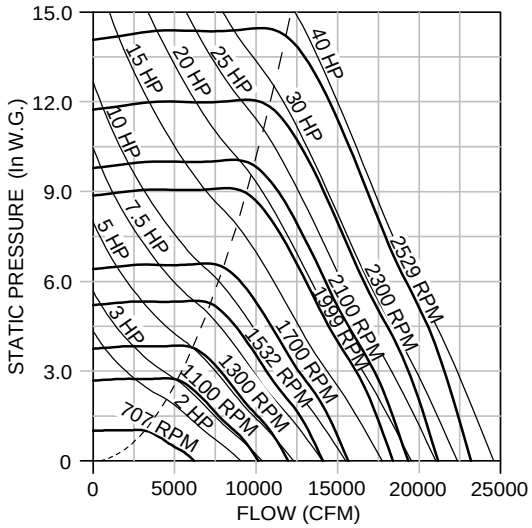
Wheel Diameter = 24.5”
Wheel Type = Flat Blade
Tip Speed (FPM) = 6.41 x RPM
Max. BHP = 2.40 (RPM/1000)^3
Inlet Area = 3.64 Sq. Ft.
Outlet Area = 3.49 Sq. Ft.
Outlet Velocity (FPM) = CFM/3.49

Class I Max. RPM - 1539
Class II Max. RPM - 2007
Class III Max. RPM - 2529

245 CA SWSI



245 CF



245 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		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																		
3900	1117	718	0.80	825	1.16																
5000	1432	789	1.12	895	1.57	978	2.00	1156	3.03												
6100	1747	876	1.54	964	2.05	1056	2.60	1196	3.65	1339	4.86										
7200	2062	977	2.09	1049	2.66	1123	3.25	1275	4.54	1391	5.76	1508	7.12	1636	8.68						
8300	2377	1081	2.76	1148	3.42	1210	4.08	1344	5.50	1472	6.98	1574	8.39	1672	9.88	1889	13.40				
9400	2692	1186	3.57	1251	4.34	1309	5.09	1418	6.58	1541	8.25	1654	9.93	1746	11.50	1920	14.90	2114	18.90		
10500	3007	1294	4.54	1355	5.41	1412	6.28	1511	7.92	1611	9.63	1722	11.50	1826	13.40	1990	17.00	2147	20.80	2318	25.10
11600	3322	1404	5.70	1461	6.66	1515	7.62	1611	9.48	1698	11.30	1791	13.20	1892	15.30	2071	19.40	2215	23.30	2356	27.50
12700	3637	1516	7.08	1568	8.10	1620	9.17	1714	11.30	1797	13.20	1876	15.20	1961	17.30	2144	22.00	2296	26.40	2426	30.70
13800	3952	1629	8.68	1678	9.78	1726	10.90	1818	13.20	1898	15.40	1972	17.60	2046	19.80	2209	24.50	2373	29.60	2507	34.30
14900	4267	1745	10.60	1790	11.70	1835	12.90	1922	15.40	2002	17.90	2073	20.20	2141	22.50	2282	27.40	2439	32.70		
16000	4582	1860	12.70	1903	13.90	1944	15.20	2027	17.90	2105	20.50	2176	23.10	2241	25.60	2368	30.60	2506	36.10		
17100	4898	1977	15.10	2016	16.40	2056	17.80	2134	20.60	2209	23.50	2279	26.30	2344	29.00	2463	34.30				
18200	5213	2095	17.90	2132	19.30	2169	20.70	2242	23.60	2314	26.70	2382	29.70	2447	32.70						
19300	5528	2212	20.90	2247	22.40	2282	23.90	2351	27.00	2420	30.20	2487	33.40	2550	36.60						
20400	5843	2328	24.30	2362	25.80	2396	27.40	2463	30.70	2528	34.00										
21500	6158	2448	28.10	2481	29.80	2513	31.50														

245 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3900	1117	707	0.84	820	1.26																
5000	1432	789	1.18	881	1.64	969	2.14														
6100	1747	881	1.64	964	2.16	1040	2.70	1185	3.91												
7200	2062	975	2.22	1056	2.83	1126	3.44	1255	4.74	1378	6.18	1499	7.73								
8300	2377	1066	2.90	1150	3.64	1218	4.34	1337	5.76	1448	7.28	1555	8.92	1660	10.70						
9400	2692	1162	3.73	1242	4.58	1312	5.41	1427	6.99	1530	8.63	1628	10.40	1722	12.20	1909	16.10				
10500	3007	1263	4.74	1334	5.67	1405	6.63	1520	8.43	1618	10.20	1710	12.10	1798	14.00	1967	18.10	2133	22.50		
11600	3322	1369	5.96	1431	6.96	1497	8.02	1614	10.10	1711	12.00	1798	14.00	1880	16.00	2038	20.30	2191	24.90	2341	29.80
12700	3637	1480	7.44	1532	8.47	1590	9.59	1707	11.90	1805	14.10	1890	16.20	1969	18.40	2118	22.90	2261	27.70	2399	32.70
13800	3952	1592	9.17	1638	10.20	1688	11.40	1799	13.90	1899	16.40	1983	18.70	2061	21.10	2204	25.80	2339	30.80	2469	36.00
14900	4267	1704	11.10	1747	12.30	1791	13.50	1891	16.20	1991	18.90	2078	21.50	2154	24.00	2293	29.00	2422	34.20		
16000	4582	1818	13.40	1856	14.60	1898	15.90	1987	18.70	2082	21.60	2171	24.50	2248	27.20	2385	32.60	2510	38.10		
17100	4898	1934	16.10	1970	17.40	2007	18.70	2086	21.50	2175	24.60	2263	27.70	2342	30.70	2479	36.60				
18200	5213	2048	19.00	2082	20.30	2116	21.70	2189	24.70	2270	27.90	2354	31.20	2435	34.50						
19300	5528	2163	22.20	2196	23.70	2228	25.20	2296	28.30	2368	31.50	2447	35.00	2526	38.50						
20400	5843	2281	26.00	2311	27.50	2341	29.00	2403	32.20	2471	35.60										
21500	6158	2399	30.10	2426	31.60	2453	33.20	2513	36.60												

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).

270 CA SWSI

Wheel Diameter = 27”
Wheel Type = Airfoil
Tip Speed (FPM) = 7.07 x RPM
Max. BHP = 3.96 (RPM/1000)^3
Inlet Area = 4.35 Sq. Ft.
Outlet Area = 4.23 Sq. Ft.
Outlet Velocity (FPM) = CFM/4.23

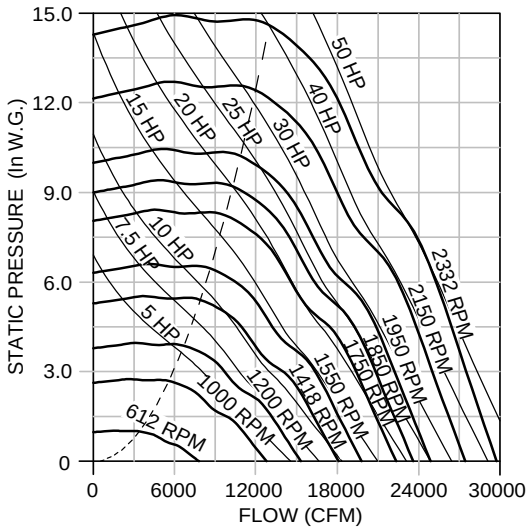
Class I Max. RPM - 1419
Class II Max. RPM - 1851
Class III Max. RPM - 2332

270 CF

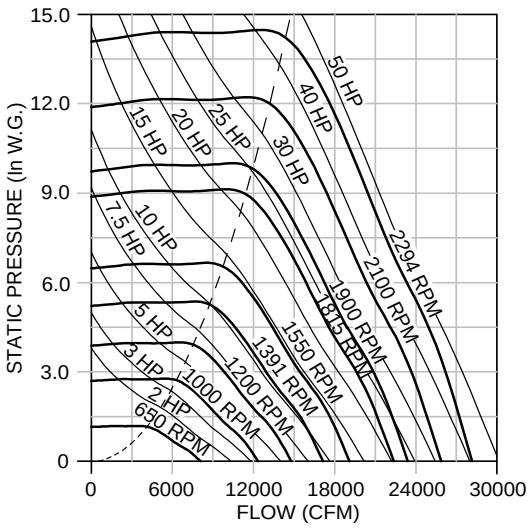
Wheel Diameter = 27”
Wheel Type = Flat Blade
Tip Speed (FPM) = 7.07 x RPM
Max. BHP = 3.90 (RPM/1000)^3
Inlet Area = 4.35 Sq. Ft.
Outlet Area = 4.23 Sq. Ft.
Outlet Velocity (FPM) = CFM/4.23

Class I Max. RPM - 1396
Class II Max. RPM - 1821
Class III Max. RPM - 2294

270 CA SWSI



270 CF



270 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3500	826	612	.74																		
4900	1157	656	1.03	764	1.51	864	2.06														
6300	1487	734	1.47	818	2.01	902	2.60	1065	3.95												
7700	1818	802	2.00	899	2.70	968	3.35	1104	4.76	1240	6.38	1365	8.11								
9100	2149	873	2.65	969	3.49	1050	4.31	1167	5.86	1283	7.54	1399	9.37	1510	11.30						
10500	2479	963	3.50	1032	4.37	1119	5.38	1248	7.22	1347	9.01	1447	10.90	1549	13.00	1743	17.40				
11900	2810	1060	4.57	1116	5.50	1180	6.52	1327	8.78	1427	10.80	1515	12.80	1602	15.00	1782	19.60	1953	24.70	2115	30.10
13300	3141	1159	5.87	1210	6.90	1261	7.95	1388	10.40	1508	12.80	1596	15.10	1674	17.30	1831	22.10	1992	27.40	2146	33.00
14700	3471	1260	7.43	1307	8.56	1352	9.69	1451	12.10	1576	15.00	1677	17.60	1756	20.10	1897	25.10	2040	30.50	2186	36.30
16100	3802	1362	9.27	1407	10.50	1448	11.70	1533	14.30	1634	17.20	1747	20.30	1837	23.10	1976	28.60	2103	34.10	2235	40.10
17500	4133	1465	11.40	1506	12.70	1546	14.10	1623	16.80	1705	19.70	1805	23.00	1908	26.30	2059	32.40	2180	38.30	2297	44.40
18900	4463	1569	13.90	1608	15.30	1646	16.80	1717	19.70	1789	22.70	1870	26.00	1966	29.50	2138	36.50	2262	42.90		
20300	4794	1673	16.70	1711	18.30	1746	19.80	1814	23.00	1880	26.10	1949	29.40	2028	33.00	2207	40.80				
21700	5124	1778	20.00	1813	21.60	1848	23.30	1912	26.60	1975	30.00	2036	33.40	2104	37.00	2265	45.10				
23100	5455	1885	23.70	1918	25.40	1951	27.20	2013	30.70	2071	34.30	2128	37.80	2189	41.60	2325	49.60				
24500	5786	1991	27.80	2023	29.60	2053	31.40	2112	35.20	2169	39.00	2224	42.80	2279	46.60						
25900	6116	2095	32.20	2126	34.20	2157	36.20	2214	40.20	2269	44.20	2320	48.10								
27300	6447	2203	37.40	2233	39.50	2262	41.60	2315	45.60												

270 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4900	1157	650	1.07	748	1.57																
6300	1487	730	1.52	812	2.09	889	2.70														
7700	1818	818	2.13	893	2.79	960	3.46	1088	4.96												
9100	2149	907	2.90	981	3.68	1043	4.44	1158	6.07	1266	7.83	1371	9.74								
10500	2479	994	3.81	1070	4.76	1132	5.66	1238	7.43	1336	9.32	1430	11.30	1522	13.50						
11900	2810	1087	4.95	1157	6.02	1221	7.08	1325	9.09	1417	11.10	1503	13.30	1587	15.50	1749	20.40				
13300	3141	1186	6.35	1246	7.50	1309	8.72	1415	11.00	1503	13.30	1584	15.60	1661	17.90	1810	23.00	1955	28.50		
14700	3471	1289	8.05	1340	9.26	1396	10.60	1504	13.20	1591	15.70	1669	18.20	1743	20.70	1882	26.00	2016	31.70	2147	37.80
16100	3802	1393	10.00	1438	11.30	1488	12.70	1591	15.70	1681	18.50	1758	21.20	1829	23.90	1961	29.50	2086	35.40	2208	41.70
17500	4133	1501	12.40	1540	13.80	1584	15.20	1679	18.40	1769	21.50	1847	24.50	1917	27.50	2044	33.50	2163	39.60	2278	46.10
18900	4463	1608	15.10	1645	16.60	1684	18.20	1768	21.40	1857	24.90	1936	28.20	2006	31.40	2131	37.90	2245	44.30		
20300	4794	1718	18.40	1751	19.90	1786	21.50	1861	24.90	1944	28.50	2024	32.20	2096	35.80	2219	42.70				
21700	5124	1827	21.90	1858	23.50	1890	25.20	1959	28.80	2034	32.60	2111	36.60	2184	40.50						
23100	5455	1935	25.90	1966	27.70	1996	29.50	2059	33.20	2127	37.20	2199	41.30	2271	45.50						
24500	5786	2048	30.60	2076	32.40	2103	34.20	2159	38.00	2223	42.20										
25900	6116	2160	35.80	2185	37.60	2210	39.40	2265	43.60												

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).

300 CA SWSI

Wheel Diameter = 30”
Wheel Type = Airfoil
Tip Speed (FPM) = 7.85 x RPM
Max. BHP = 6.71 (RPM/1000)^3
Inlet Area = 5.36 Sq. Ft.
Outlet Area = 5.23 Sq. Ft.
Outlet Velocity (FPM) = CFM/5.23

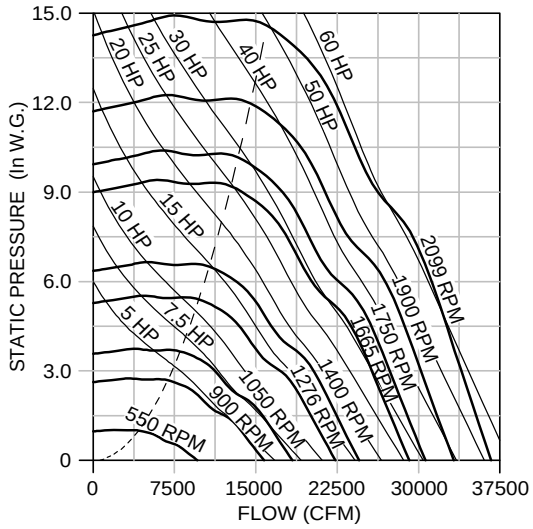
Class I Max. RPM - 1277
Class II Max. RPM - 1666
Class III Max. RPM - 2099

300 CF

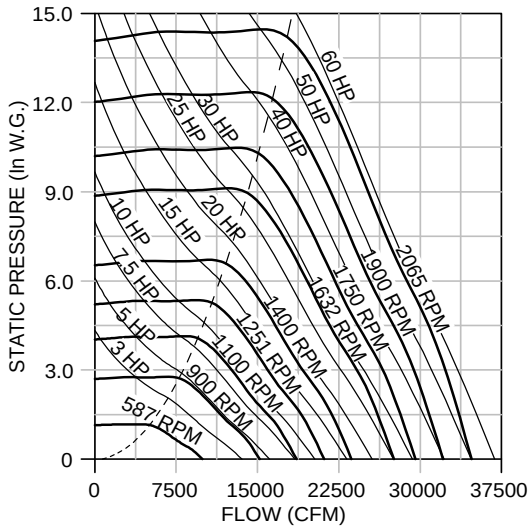
Wheel Diameter = 30”
Wheel Type = Flat Blade
Tip Speed (FPM) = 7.85 x RPM
Max. BHP = 6.60 (RPM/1000)^3
Inlet Area = 5.36 Sq. Ft.
Outlet Area = 5.23 Sq. Ft.
Outlet Velocity (FPM) = CFM/5.23

Class I Max. RPM - 1257
Class II Max. RPM - 1639
Class III Max. RPM - 2065

300 CA SWSI



300 CF



300 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4300	822	550	.90																		
6100	1167	592	1.28	689	1.89	778	2.56														
7900	1511	666	1.86	741	2.54	815	3.27	960	4.93												
9700	1855	728	2.55	817	3.44	879	4.26	999	6.02	1120	8.02	1232	10.20								
11500	2200	798	3.41	880	4.46	956	5.52	1061	7.47	1162	9.56	1265	11.80	1364	14.30						
13300	2544	884	4.56	943	5.65	1017	6.90	1138	9.27	1226	11.50	1313	13.90	1402	16.50	1575	22.00	1736	28.10		
15100	2889	975	6.00	1024	7.16	1078	8.43	1208	11.30	1303	13.90	1380	16.50	1456	19.10	1613	24.90	1766	31.20	1909	38.00
16900	3233	1068	7.74	1113	9.05	1157	10.40	1263	13.40	1376	16.60	1457	19.50	1527	22.30	1663	28.30	1804	34.90	1941	41.80
18700	3577	1163	9.85	1204	11.30	1245	12.80	1329	15.80	1435	19.30	1531	22.80	1604	26.00	1729	32.30	1853	39.10	1980	46.30
20500	3922	1259	12.30	1298	13.90	1335	15.50	1408	18.70	1492	22.30	1592	26.20	1678	30.00	1805	36.90	1917	44.00	2030	51.40
22300	4266	1356	15.30	1393	17.00	1427	18.70	1494	22.10	1564	25.80	1647	29.80	1739	34.10	1882	42.00	1991	49.50	2094	57.30
24100	4611	1454	18.70	1488	20.50	1521	22.30	1583	26.00	1646	29.80	1714	33.90	1793	38.30	1954	47.50	2069	55.70		
25900	4955	1551	22.50	1585	24.50	1616	26.50	1676	30.50	1733	34.50	1792	38.60	1856	43.00	2013	53.00				
27700	5299	1651	27.00	1682	29.10	1711	31.20	1769	35.50	1822	39.70	1877	44.10	1933	48.60	2066	58.60				
29500	5644	1750	32.00	1780	34.30	1808	36.50	1862	41.00	1914	45.50	1964	50.10	2015	54.70						
31300	5988	1849	37.60	1877	39.90	1904	42.30	1957	47.20	2006	51.90	2053	56.70								
33100	6332	1949	43.80	1976	46.40	2003	49.00	2052	53.90												
34900	6677	2051	51.00	2076	53.60																

300 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6100	1167	587	1.33	675	1.96																
7900	1511	662	1.92	735	2.63	804	3.40														
9700	1855	745	2.73	812	3.55	872	4.40	985	6.25	1096	8.34										
11500	2200	828	3.74	895	4.73	951	5.70	1053	7.74	1148	9.92	1241	12.30								
13300	2544	911	4.97	978	6.16	1034	7.30	1130	9.57	1216	11.90	1299	14.40	1380	17.10						
15100	2889	999	6.49	1060	7.84	1118	9.20	1211	11.80	1293	14.30	1369	17.00	1443	19.80	1586	25.90				
16900	3233	1093	8.39	1144	9.82	1200	11.40	1295	14.30	1374	17.20	1446	20.10	1515	23.10	1646	29.40	1773	36.20	1900	43.50
18700	3577	1190	10.70	1234	12.20	1283	13.90	1379	17.30	1458	20.50	1527	23.60	1593	26.80	1716	33.50	1833	40.50	1948	48.00
20500	3922	1289	13.40	1328	15.10	1369	16.80	1460	20.50	1542	24.20	1611	27.60	1674	31.10	1791	38.10	1902	45.60	2009	53.40
22300	4266	1389	16.60	1424	18.40	1461	20.20	1543	24.20	1624	28.20	1695	32.10	1757	35.80	1870	43.40	1976	51.20		
24100	4611	1491	20.40	1522	22.20	1556	24.20	1628	28.30	1705	32.60	1778	37.00	1841	41.10	1953	49.30	2054	57.50		
25900	4955	1594	24.80	1623	26.70	1653	28.70	1717	33.00	1788	37.60	1860	42.40	1925	47.00	2036	55.80				
27700	5299	1695	29.60	1723	31.70	1750	33.80	1809	38.30	1874	43.10	1942	48.20	2007	53.20						
29500	5644	1799	35.20	1825	37.40	1851	39.70	1904	44.30	1962	49.30	2025	54.60								
31300	5988	1905	41.60	1928	43.90	1951	46.10	2001	51.00	2054	56.20										
33100	6332	2009	48.70	2030	50.90	2052	53.30														

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).

330 CA SWSI

Wheel Diameter = 33”
Wheel Type = Airfoil
Tip Speed (FPM) = 8.64 x RPM
Max. BHP = 10.8 (RPM/1000)^3
Inlet Area = 6.49 Sq. Ft.
Outlet Area = 6.33 Sq. Ft.
Outlet Velocity (FPM) = CFM/6.33

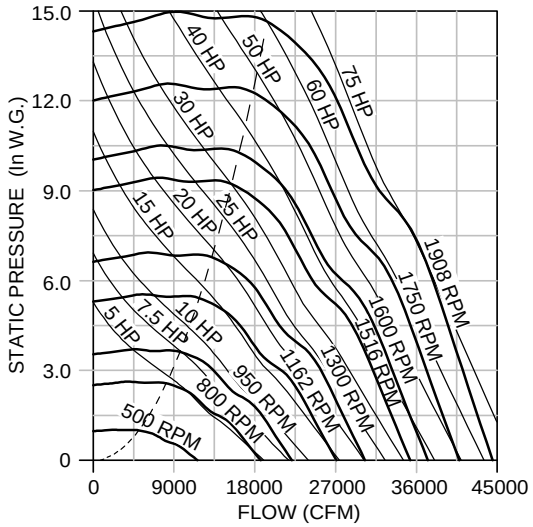
Class I Max. RPM - 1161
Class II Max. RPM - 1514
Class III Max. RPM - 1908

330 CF

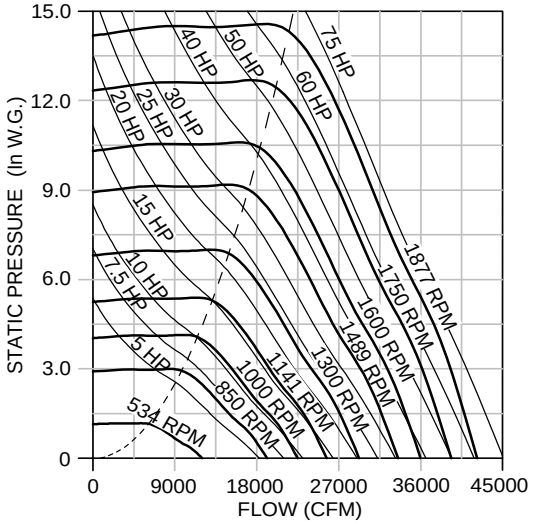
Wheel Diameter = 33”
Wheel Type = Flat Blade
Tip Speed (FPM) = 8.64 x RPM
Max. BHP = 10.6 (RPM/1000)^3
Inlet Area = 6.49 Sq. Ft.
Outlet Area = 6.33 Sq. Ft.
Outlet Velocity (FPM) = CFM/6.33

Class I Max. RPM - 1142
Class II Max. RPM - 1490
Class III Max. RPM - 1877

330 CA SWSI



330 CF



330 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5200	820	500	1.09																		
7400	1168	539	1.56	627	2.29	708	3.11														
9600	1515	607	2.27	675	3.09	742	3.98	873	5.98												
11800	1862	663	3.11	745	4.20	801	5.19	910	7.34	1019	9.75	1120	12.40								
14000	2210	728	4.17	802	5.45	871	6.73	967	9.11	1058	11.60	1152	14.40	1241	17.40						
16200	2557	808	5.60	860	6.90	927	8.43	1038	11.30	1117	14.00	1196	17.00	1277	20.10	1434	26.80				
18400	2904	891	7.36	936	8.80	984	10.30	1102	13.80	1188	17.00	1259	20.10	1327	23.30	1468	30.30	1607	38.00	1737	46.20
20600	3252	977	9.53	1017	11.10	1057	12.70	1152	16.40	1255	20.30	1330	23.80	1393	27.30	1515	34.50	1642	42.40	1767	51.00
22800	3599	1064	12.10	1101	13.90	1138	15.70	1213	19.40	1308	23.60	1397	27.90	1464	31.80	1577	39.50	1689	47.70	1804	56.50
25000	3946	1153	15.30	1188	17.20	1221	19.10	1287	23.00	1362	27.30	1452	32.10	1531	36.70	1647	45.20	1749	53.80	1851	62.80
27200	4294	1241	18.80	1275	21.00	1306	23.00	1366	27.20	1429	31.60	1502	36.50	1586	41.80	1718	51.50	1818	60.70	1910	70.00
29400	4641	1332	23.10	1363	25.30	1392	27.50	1448	32.00	1505	36.70	1565	41.60	1636	47.00	1783	58.20	1889	68.30		
31600	4988	1421	27.80	1451	30.30	1480	32.70	1533	37.50	1585	42.40	1638	47.50	1696	52.90	1836	64.90				
33800	5335	1513	33.40	1540	35.90	1567	38.50	1619	43.70	1667	48.90	1716	54.20	1767	59.70	1886	71.90				
36000	5683	1604	39.60	1630	42.30	1656	45.10	1705	50.60	1752	56.20	1797	61.70	1843	67.40						
38200	6030	1694	46.50	1719	49.30	1744	52.30	1792	58.20	1837	64.10	1879	69.90								
40400	6377	1786	54.30	1811	57.40	1835	60.60	1879	66.60												
42600	6725	1880	63.20	1903	66.40																

330 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7400	1168	534	1.62	614	2.38																
9600	1515	603	2.34	669	3.19	732	4.13														
11800	1862	680	3.34	740	4.33	795	5.37	897	7.610	997	10.10										
14000	2210	756	4.58	817	5.80	868	6.98	960	9.450	1046	12.10	1130	15.00								
16200	2557	832	6.09	893	7.55	944	8.94	1030	11.70	1109	14.60	1184	17.60	1257	20.80						
18400	2904	913	7.97	968	9.62	1021	11.30	1106	14.40	1180	17.60	1249	20.80	1315	24.20	1444	31.50				
20600	3252	999	10.30	1046	12.10	1096	14.00	1183	17.60	1255	21.10	1320	24.60	1382	28.20	1501	35.90	1616	44.20	1730	53.00
22800	3599	1089	13.20	1128	15.00	1172	17.00	1259	21.20	1331	25.10	1395	29.00	1454	32.90	1565	40.90	1671	49.50	1775	58.60
25000	3946	1180	16.60	1215	18.60	1252	20.60	1334	25.20	1408	29.60	1471	33.90	1528	38.10	1635	46.70	1735	55.70	1832	65.20
27200	4294	1272	20.50	1304	22.70	1336	24.90	1410	29.70	1484	34.70	1548	39.40	1605	44.00	1708	53.20	1803	62.70		
29400	4641	1366	25.20	1394	27.40	1424	29.80	1489	34.80	1559	40.20	1624	45.40	1682	50.50	1783	60.40	1875	70.50		
31600	4988	1460	30.60	1486	33.00	1513	35.40	1571	40.70	1635	46.30	1699	52.00	1759	57.70	1860	68.50				
33800	5335	1553	36.60	1578	39.10	1603	41.80	1656	47.30	1714	53.10	1775	59.30	1834	65.40						
36000	5683	1649	43.60	1673	46.40	1696	49.10	1743	54.70	1795	60.70	1852	67.20								
38200	6030	1746	51.60	1767	54.30	1788	57.10	1833	63.10												
40400	6377	1842	60.40	1860	63.00																

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).

365 CA SWSI

Wheel Diameter = 36.5”
Wheel Type = Airfoil
Tip Speed (FPM) = 9.56 x RPM
Max. BHP = 17.5 (RPM/1000)^3
Inlet Area = 7.98 Sq. Ft.
Outlet Area = 7.73 Sq. Ft.
Outlet Velocity (FPM) = CFM/7.73

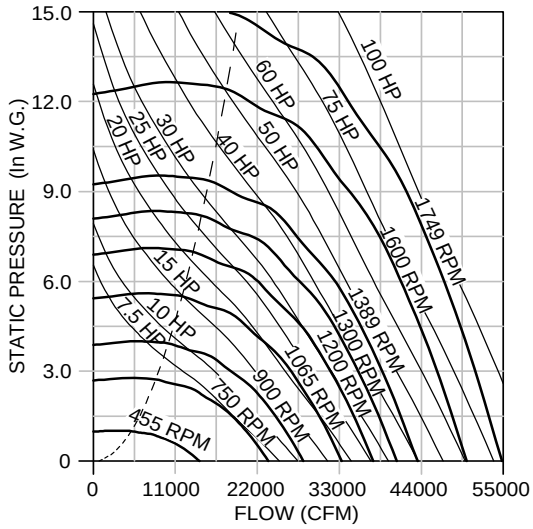
Class I Max. RPM - 1064
Class II Max. RPM - 1388
Class III Max. RPM - 1749

365 CF

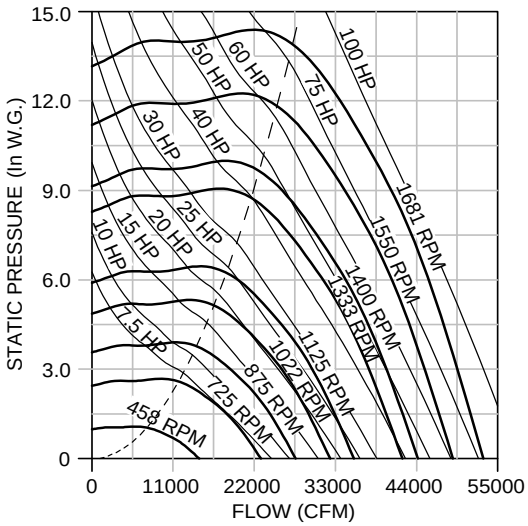
Wheel Diameter = 36.5”
Wheel Type = Flat Blade
Tip Speed (FPM) = 9.56 x RPM
Max. BHP = 19.4 (RPM/1000)^3
Inlet Area = 7.73 Sq. Ft.
Outlet Velocity (FPM) = CFM/7.73

Class I Max. RPM - 1023
Class II Max. RPM - 1334
Class III Max. RPM - 1681

365 CA SWSI



365 CF



365 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		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																		
8000	1034	476	1.62	571	2.53	648	3.51														
10700	1384	520	2.28	594	3.25	669	4.38	802	6.87	911	9.55										
13400	1733	570	3.22	642	4.31	704	5.50	821	8.20	935	11.20	1031	14.40	1118	17.80						
16100	2082	634	4.46	692	5.73	752	7.03	857	9.89	954	13.10	1052	16.60	1142	20.30	1296	28.10				
18800	2431	704	6.01	754	7.51	803	8.98	906	12.10	993	15.40	1075	19.10	1160	23.00	1321	31.60	1457	40.60	1580	50.10
21500	2781	777	7.93	822	9.65	865	11.30	953	14.80	1042	18.30	1119	22.10	1190	26.20	1338	35.20	1480	44.90	1604	55.00
24200	3130	853	10.30	894	12.20	933	14.10	1009	17.90	1089	21.80	1168	25.90	1238	30.10	1365	39.30	1497	49.40	1626	60.30
26900	3479	932	13.20	967	15.20	1004	17.40	1074	21.70	1142	25.90	1215	30.30	1286	34.70	1410	44.20	1524	54.60	1643	65.80
29600	3828	1012	16.70	1044	18.90	1077	21.20	1142	25.90	1204	30.60	1267	35.20	1333	40.00	1459	49.90	1568	60.70	1672	72.20
32300	4177	1092	20.80	1122	23.10	1152	25.60	1212	30.70	1271	35.90	1327	40.90	1386	46.10	1507	56.70	1617	67.60	1715	79.30
35000	4527	1175	25.70	1201	28.10	1229	30.70	1285	36.20	1339	41.70	1393	47.30	1445	52.80	1555	64.00	1665	75.60		
37700	4876	1256	31.10	1282	33.80	1308	36.60	1359	42.30	1411	48.40	1461	54.40	1510	60.30	1608	72.20	1712	84.40		
40400	5225	1340	37.60	1364	40.40	1387	43.20	1435	49.30	1483	55.60	1531	62.10	1577	68.50	1669	81.40				
43100	5574	1424	44.80	1446	47.80	1468	50.80	1512	57.10	1557	63.80	1602	70.60	1647	77.60	1733	91.20				
45800	5924	1506	52.70	1527	55.90	1548	59.10	1591	66.00	1633	72.90	1675	80.00	1718	87.40						
48500	6273	1591	62.00	1611	65.40	1631	68.80	1669	75.50	1710	83.00	1749	90.30								
51200	6622	1677	72.40	1695	75.80	1713	79.20	1750	86.40												

365 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	1034	458	1.68																		
10700	1384	503	2.41	574	3.41	641	4.50														
13400	1733	557	3.35	621	4.54	680	5.80	788	8.43												
16100	2082	620	4.59	676	5.98	730	7.42	827	10.40	918	13.50										
18800	2431	690	6.21	737	7.74	785	9.37	876	12.70	959	16.20	1037	19.80	1113	23.70						
21500	2781	764	8.26	805	9.95	846	11.70	929	15.50	1007	19.30	1080	23.30	1149	27.40	1283	36.10				
24200	3130	841	10.80	877	12.70	913	14.60	987	18.60	1060	22.90	1129	27.30	1194	31.70	1318	41.00	1436	50.80		
26900	3479	920	14.00	952	15.90	985	18.00	1050	22.40	1117	27.00	1182	31.70	1244	36.50	1361	46.60	1471	56.90	1577	67.70
29600	3828	999	17.60	1029	19.80	1059	22.10	1118	26.80	1178	31.70	1238	36.70	1297	41.90	1409	52.70	1514	63.80	1613	75.10
32300	4177	1081	22.10	1107	24.40	1135	26.80	1189	31.80	1243	37.00	1298	42.40	1353	48.00	1461	59.50	1561	71.30	1656	83.50
35000	4527	1161	27.20	1187	29.70	1212	32.30	1262	37.60	1312	43.10	1362	48.80	1413	54.70	1515	67.00	1612	79.60		
37700	4876	1245	33.30	1268	35.90	1291	38.60	1337	44.20	1383	50.00	1430	56.10	1476	62.20	1571	75.10	1665	88.60		
40400	5225	1327	40.10	1349	42.90	1371	45.80	1414	51.70	1457	57.80	1500	64.10	1543	70.60	1631	84.10				
43100	5574	1409	47.80	1430	50.80	1451	53.90	1492	60.20	1531	66.40	1572	73.20	1613	80.00						
45800	5924	1493	56.60	1513	59.90	1532	63.00	1570	69.50	1608	76.30	1646	83.20								
48500	6273	1578	66.70	1595	69.80	1613	73.10	1650	80.10												

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 CA SWSI

Wheel Diameter = 40.25”
Wheel Type = Airfoil
Tip Speed (FPM) = 10.54 x RPM
Max. BHP = 28.4 (RPM/1000)^3
Inlet Area = 9.72 Sq. Ft.
Outlet Area = 9.41 Sq. Ft.
Outlet Velocity (FPM) = CFM/9.41

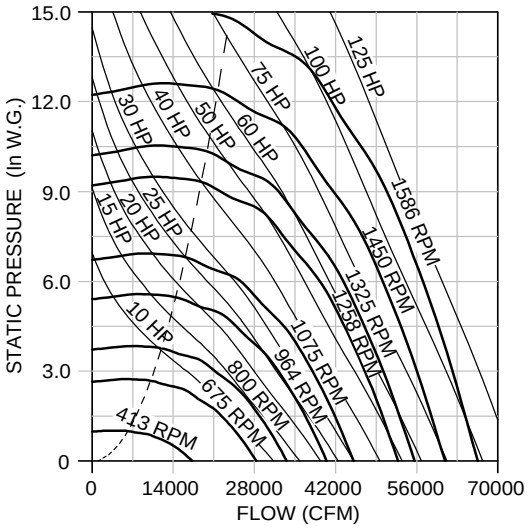
Class I Max. RPM - 965
Class II Max. RPM - 1259
Class III Max. RPM - 1586

402 CF

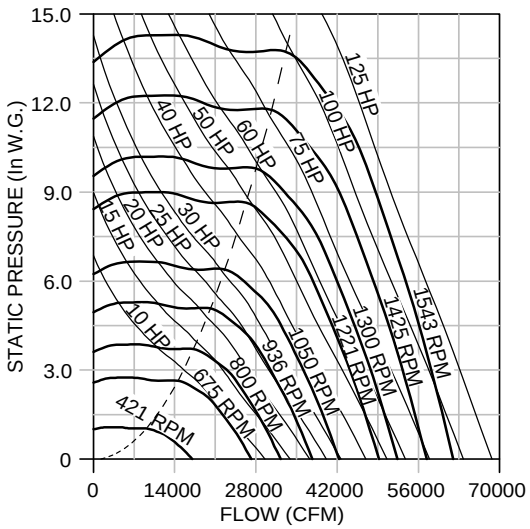
Wheel Diameter = 40.25”
Wheel Type = Flat Blade
Tip Speed (FPM) = 10.54 x RPM
Max. BHP = 31.3 (RPM/1000)^3
Inlet Area = 9.72 Sq. Ft.
Outlet Area = 9.41 Sq. Ft.
Outlet Velocity (FPM) = CFM/9.41

Class I Max. RPM - 939
Class II Max. RPM - 1225
Class III Max. RPM - 1543

402 CA SWSI



402 CF



402 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6500	690	413	1.45																		
9800	1041	433	2.00	518	3.09	588	4.28														
13100	1392	473	2.79	540	3.99	607	5.35	728	8.38	827	11.70										
16400	1742	519	3.96	584	5.30	640	6.74	746	10.00	849	13.70	936	17.60	1015	21.80						
19700	2093	577	5.47	630	7.05	684	8.63	779	12.10	866	16.00	955	20.30	1037	24.80	1177	34.40				
23000	2444	641	7.38	686	9.21	731	11.00	823	14.80	903	18.90	977	23.40	1054	28.20	1199	38.50	1323	49.60	1434	61.10
26300	2795	708	9.76	749	11.90	788	14.00	867	18.10	947	22.50	1017	27.10	1082	32.10	1215	43.00	1344	54.80	1457	67.30
29600	3145	778	12.70	814	15.00	850	17.40	919	22.10	991	26.80	1062	31.70	1125	36.90	1241	48.10	1360	60.50	1476	73.60
32900	3496	849	16.30	881	18.70	914	21.40	977	26.60	1039	31.80	1105	37.10	1169	42.50	1282	54.20	1385	66.80	1492	80.50
36200	3847	922	20.60	951	23.20	981	26.10	1040	31.90	1096	37.60	1153	43.30	1212	49.10	1327	61.30	1425	74.20	1519	88.20
39500	4198	996	25.60	1023	28.50	1050	31.50	1104	37.80	1157	44.10	1208	50.30	1261	56.60	1370	69.40	1470	82.80	1559	97.10
42800	4548	1071	31.60	1095	34.60	1120	37.80	1170	44.50	1220	51.40	1268	58.10	1315	64.80	1414	78.50	1514	92.70		
46100	4899	1145	38.30	1169	41.70	1192	45.10	1237	52.00	1284	59.30	1330	66.80	1374	74.00	1463	88.60	1557	104.0		
49400	5250	1222	46.40	1243	49.80	1264	53.20	1307	60.60	1350	68.30	1394	76.30	1436	84.20	1518	99.70				
52700	5600	1298	55.30	1318	58.90	1338	62.60	1377	70.20	1418	78.40	1459	86.80	1499	95.20	1577	112.0				
56000	5951	1373	65.10	1392	68.90	1411	72.90	1449	81.10	1487	89.60	1525	98.30	1564	107.0						
59300	6302	1451	76.60	1469	80.70	1486	84.70	1521	93.00	1557	102.0										
62600	6653	1528	89.20	1545	93.40	1561	97.50														

402 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9800	1041	421	2.08																		
13100	1392	459	2.96	527	4.18	589	5.57														
16400	1742	516	4.30	567	5.62	623	7.07	724	10.50												
19700	2093	582	6.05	625	7.65	667	9.23	758	12.60	842	16.70										
23000	2444	650	8.23	690	10.10	727	12.00	800	15.70	878	19.70	952	24.40	1023	29.40						
26300	2795	722	11.00	757	13.10	791	15.30	855	19.60	920	23.90	989	28.40	1054	33.40	1179	44.80				
29600	3145	796	14.40	827	16.80	858	19.20	918	24.10	973	28.80	1031	33.70	1092	38.70	1209	50.10	1320	63.00		
32900	3496	872	18.60	900	21.20	927	23.80	983	29.30	1035	34.70	1085	40.00	1136	45.20	1246	56.60	1350	69.70	1449	83.90
36200	3847	949	23.70	974	26.40	999	29.30	1050	35.20	1099	41.20	1146	47.10	1191	52.90	1287	64.80	1387	77.60	1480	92.00
39500	4198	1027	29.60	1049	32.50	1073	35.70	1119	42.00	1166	48.60	1210	55.10	1252	61.50	1336	74.20	1426	87.30	1517	101.0
42800	4548	1106	36.70	1127	39.90	1148	43.10	1190	49.80	1233	56.80	1275	63.90	1316	71.00	1393	84.70	1472	98.60		
46100	4899	1184	44.60	1204	48.00	1223	51.40	1263	58.80	1302	66.10	1343	73.90	1382	81.50	1455	96.40	1526	111.0		
49400	5250	1264	53.90	1283	57.70	1301	61.30	1336	68.70	1373	76.50	1411	84.70	1448	92.90	1519	109.0				
52700	5600	1345	64.70	1362	68.50	1378	72.10	1412	80.20	1446	88.30	1481	96.90	1516	106.0						
56000	5951	1425	76.60	1440	80.30	1456	84.40	1487	92.60	1520	102.0										
59300	6302	1505	89.90	1519	93.70	1535	98.30														

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).

445 CA SWSI

Wheel Diameter = 44.5”
Wheel Type = Airfoil
Tip Speed (FPM) = 11.65 x RPM
Max. BHP = 47.2 (RPM/1000)^3
Inlet Area = 11.86 Sq. Ft.
Outlet Area = 11.50 Sq. Ft.
Outlet Velocity (FPM) = CFM/11.50

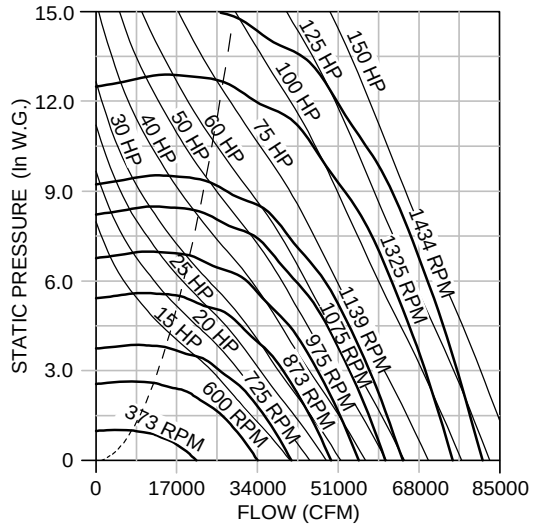
Class I Max. RPM - 873
Class II Max. RPM - 1138
Class III Max. RPM - 1434

445 CF

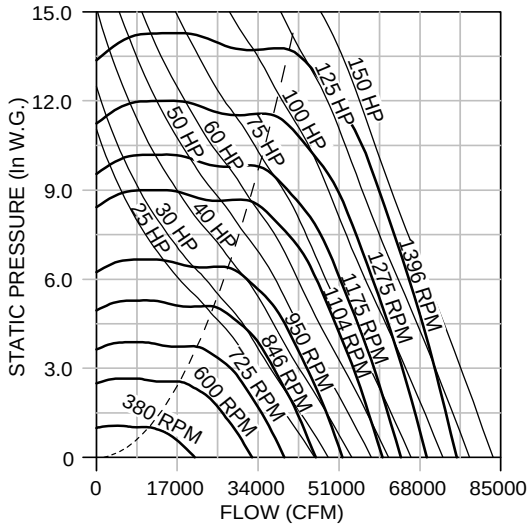
Wheel Diameter = 44.5”
Wheel Type = Flat Blade
Tip Speed (FPM) = 11.65 x RPM
Max. BHP = 52.0 (RPM/1000)^3
Inlet Area = 11.86 Sq. Ft.
Outlet Area = 11.50 Sq. Ft.
Outlet Velocity (FPM) = CFM/11.50

Class I Max. RPM - 849
Class II Max. RPM - 1108
Class III Max. RPM - 1396

445 CA SWSI



445 CF



445 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7900	687	373	1.76																		
11900	1035	391	2.42	468	3.75	531	5.20														
15900	1383	427	3.39	488	4.86	549	6.52	658	10.20	747	14.20										
19900	1731	467	4.76	527	6.42	577	8.15	674	12.20	767	16.70	846	21.50	917	26.50						
23900	2079	520	6.62	567	8.49	617	10.50	703	14.70	782	19.40	863	24.60	937	30.20	1063	41.80				
27900	2426	577	8.91	618	11.10	658	13.30	742	17.90	814	22.90	882	28.40	952	34.20	1083	46.80	1195	60.30	1296	74.40
31900	2774	637	11.80	673	14.30	709	16.80	781	21.90	854	27.20	917	32.80	976	38.90	1098	52.30	1214	66.60	1316	81.80
35900	3122	699	15.30	732	18.10	764	20.90	827	26.60	893	32.40	957	38.30	1015	44.70	1119	58.20	1228	73.40	1333	89.30
39900	3470	763	19.50	792	22.50	822	25.70	879	32.00	936	38.40	996	44.80	1054	51.40	1156	65.60	1250	81.10	1348	97.80
43900	3818	828	24.70	855	27.90	882	31.40	935	38.30	986	45.20	1039	52.30	1093	59.40	1196	74.00	1285	89.90	1370	107.0
47900	4166	894	30.70	919	34.30	943	37.80	993	45.50	1041	53.10	1087	60.60	1136	68.30	1235	83.90	1326	100.0	1406	118.0
51900	4514	961	37.80	983	41.40	1006	45.40	1052	53.50	1097	61.80	1141	70.10	1184	78.20	1274	94.80	1365	112.0		
55900	4862	1028	45.90	1050	50.00	1070	54.00	1112	62.50	1155	71.50	1196	80.30	1237	89.30	1318	107.0	1403	125.0		
59900	5210	1097	55.50	1116	59.60	1135	63.80	1174	72.70	1214	82.20	1253	91.70	1292	102.0	1367	120.0				
63900	5558	1165	66.10	1183	70.50	1201	75.00	1238	84.50	1275	94.30	1312	105.0	1348	115.0	1419	135.0				
67900	5906	1233	78.00	1250	82.60	1267	87.40	1302	97.40	1337	108.0	1371	118.0	1406	129.0						
71900	6254	1302	91.50	1318	96.40	1335	102.0	1366	112.0	1399	122.0	1432	134.0								
75900	6602	1372	107.0	1387	112.0	1401	117.0	1432	128.0												

445 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11900	1035	380	2.53																		
15900	1383	414	3.59	475	5.05																
19900	1731	465	5.20	511	6.79	562	8.560	654	12.70												
23900	2079	523	7.27	563	9.24	601	11.20	684	15.30	761	20.30										
27900	2426	585	9.93	621	12.20	654	14.50	721	19.00	792	23.90	859	29.60	924	35.70						
31900	2774	649	13.20	681	15.80	712	18.50	769	23.60	829	28.80	892	34.40	951	40.50	1065	54.40				
35900	3122	715	17.30	743	20.20	772	23.20	826	29.10	876	34.80	929	40.60	985	46.80	1091	60.80	1192	76.50		
39900	3470	783	22.30	808	25.40	834	28.70	884	35.30	931	41.80	977	48.20	1024	54.70	1124	68.50	1218	84.50	1308	102.0
43900	3818	853	28.50	875	31.70	898	35.20	944	42.40	989	49.70	1031	56.80	1072	63.70	1160	78.20	1251	93.90	1336	112.0
47900	4166	922	35.50	943	39.10	964	42.90	1006	50.60	1048	58.50	1089	66.50	1127	74.10	1203	89.50	1286	106.0	1369	123.0
51900	4514	993	43.90	1012	47.80	1031	51.70	1069	59.80	1109	68.50	1147	77.00	1184	85.50	1254	102.0	1326	119.0		
55900	4862	1063	53.40	1081	57.60	1098	61.60	1134	70.40	1171	79.60	1207	88.80	1243	98.20	1309	116.0	1374	134.0		
59900	5210	1135	64.60	1152	69.10	1168	73.50	1201	82.60	1234	92.00	1269	102.0	1302	112.0	1367	132.0				
63900	5558	1207	77.40	1222	81.80	1237	86.40	1268	96.10	1299	106.0	1331	116.0	1363	127.0						
67900	5906	1279	91.70	1293	96.20	1307	101.0	1336	111.0	1366	122.0										
71900	6254	1351	108.0	1363	112.0	1378	118.0														

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 CA SWSI

Wheel Diameter = 49”
Wheel Type = Airfoil
Tip Speed (FPM) = 12.83 x RPM
Max. BHP = 76.4 (RPM/1000)^3
Inlet Area = 14.42 Sq. Ft.
Outlet Area = 13.94 Sq. Ft.
Outlet Velocity (FPM) = CFM/13.94

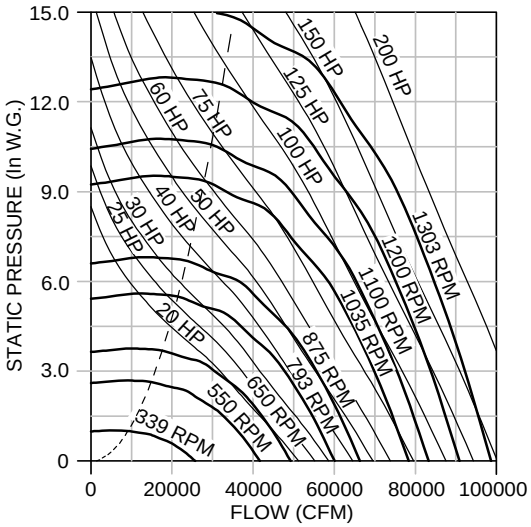
Class I Max. RPM - 793
Class II Max. RPM - 1034
Class III Max. RPM - 1303

490 CF

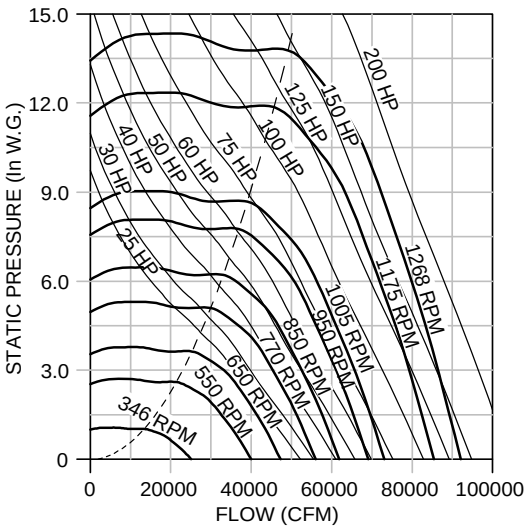
Wheel Diameter = 49”
Wheel Type = Flat Blade
Tip Speed (FPM) = 12.83 x RPM
Max. BHP = 84.3 (RPM/1000)^3
Inlet Area = 14.42 Sq. Ft.
Outlet Area = 13.94 Sq. Ft.
Outlet Velocity (FPM) = CFM/13.94

Class I Max. RPM - 771
Class II Max. RPM - 1006
Class III Max. RPM - 1268

490 CA SWSI



490 CF



490 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9600	688	339	2.14																		
14600	1047	356	2.98	426	4.60	483	6.36														
19600	1405	390	4.20	445	5.98	499	7.99	598	12.50	680	17.40										
24600	1764	429	5.99	482	8.01	528	10.10	613	15.00	698	20.50	770	26.40	835	32.60						
29600	2123	478	8.31	520	10.60	565	13.10	643	18.30	713	24.00	786	30.50	853	37.20	968	51.50				
34600	2481	532	11.30	569	14.10	605	16.80	680	22.40	745	28.50	805	35.10	867	42.30	986	57.70	1088	74.20	1180	91.70
39600	2840	589	15.00	622	18.20	653	21.30	717	27.60	783	34.10	840	41.00	893	48.40	1000	64.70	1105	82.20	1199	101.0
44600	3199	647	19.50	677	23.10	706	26.60	761	33.60	819	40.80	877	48.10	930	55.90	1023	72.50	1119	91.00	1214	111.0
49600	3557	708	25.20	734	28.90	760	32.80	811	40.70	861	48.50	914	56.60	966	64.60	1059	81.90	1142	101.0	1228	121.0
54600	3916	769	31.90	793	35.90	817	40.20	864	48.80	909	57.40	955	66.00	1003	74.90	1097	93.10	1178	113.0	1253	133.0
59600	4274	831	39.80	853	44.20	874	48.50	918	58.00	961	67.50	1003	77.00	1044	86.20	1132	106.0	1215	126.0	1288	147.0
64600	4633	894	49.10	914	53.70	934	58.50	974	68.40	1014	78.70	1053	89.00	1091	99.10	1170	120.0	1251	141.0		
69600	4992	957	59.80	975	64.60	994	69.80	1031	80.30	1069	91.40	1106	103.0	1142	114.0	1213	136.0	1288	158.0		
74600	5350	1021	72.20	1038	77.40	1055	82.60	1090	93.80	1125	106.0	1160	117.0	1194	129.0	1260	153.0				
79600	5709	1085	86.20	1101	91.70	1117	97.30	1149	109.0	1182	121.0	1215	134.0	1248	147.0						
84600	6068	1149	102.0	1164	108.0	1180	114.0	1210	126.0	1240	139.0	1271	152.0	1302	165.0						
89600	6426	1214	120.0	1228	126.0	1242	132.0	1271	145.0	1300	158.0										
94600	6785	1279	140.0	1292	146.0																

490 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
14600	1047	346	3.10																		
19600	1405	379	4.47	434	6.25	485	8.36														
24600	1764	427	6.51	468	8.48	513	10.60	596	15.70												
29600	2123	482	9.18	518	11.60	552	14.00	625	19.10	694	25.10										
34600	2481	540	12.60	572	15.40	602	18.30	661	23.90	724	29.80	785	36.70	842	44.10						
39600	2840	601	16.90	629	20.10	657	23.40	708	29.80	760	36.20	816	43.00	870	50.50	971	67.40				
44600	3199	663	22.20	688	25.80	713	29.40	761	36.70	806	43.90	853	51.30	902	58.70	997	75.60	1087	94.90		
49600	3557	727	28.80	749	32.60	772	36.70	817	44.90	859	53.00	899	60.90	940	68.90	1029	85.90	1113	105.0	1194	126.0
54600	3916	792	36.70	812	40.90	832	45.10	873	54.00	913	63.00	951	72.00	987	80.60	1064	98.50	1145	118.0	1221	139.0
59600	4274	858	46.20	876	50.50	894	55.10	932	64.80	969	74.50	1005	84.30	1039	93.90	1107	113.0	1179	133.0	1253	154.0
64600	4633	924	57.10	941	61.90	958	66.80	992	77.00	1026	87.40	1061	98.20	1094	109.0	1156	130.0	1219	151.0		
69600	4992	989	69.40	1005	74.60	1021	79.90	1053	90.80	1085	102.0	1117	113.0	1149	125.0	1209	148.0	1266	170.0		
74600	5350	1057	84.30	1072	89.80	1086	95.20	1115	106.0	1145	118.0	1175	131.0	1205	143.0	1263	168.0				
79600	5709	1125	101.0	1138	107.0	1151	112.0	1179	124.0	1206	137.0	1234	149.0	1263	163.0						
84600	6068	1193	120.0	1204	125.0	1217	132.0	1242	144.0												

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).

540 CA SWSI

Wheel Diameter = 54”
Wheel Type = Airfoil
Tip Speed (FPM) = 14.14 x RPM
Max. BHP = 124 (RPM/1000)^3
Inlet Area = 17.61 Sq. Ft.
Outlet Area = 16.92 Sq. Ft.
Outlet Velocity (FPM) = CFM/16.92

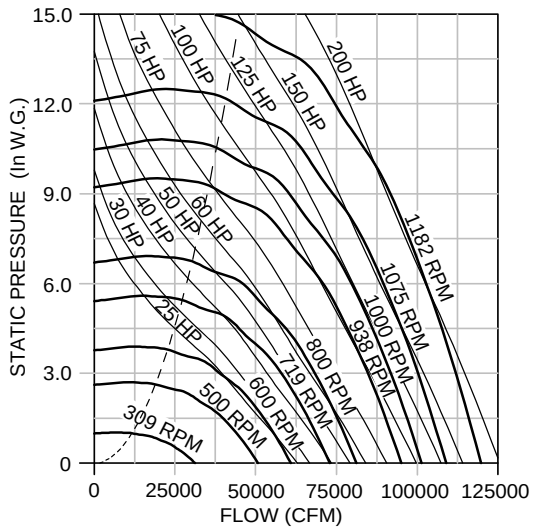
Class I Max. RPM - 719
Class II Max. RPM - 938
Class III Max. RPM - 1182

540 CF

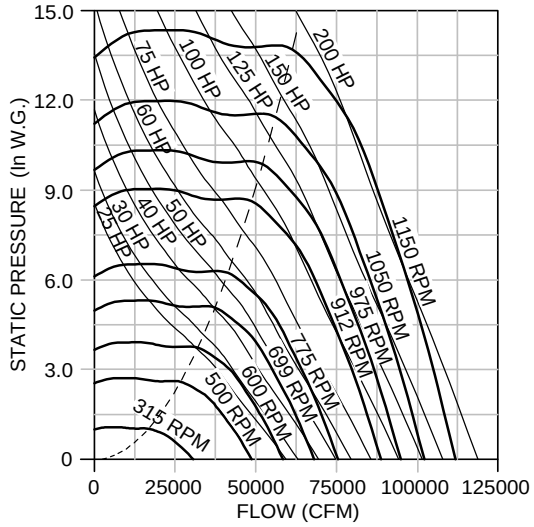
Wheel Diameter = 54”
Wheel Type = Flat Blade
Tip Speed (FPM) = 14.14 x RPM
Max. BHP = 137 (RPM/1000)^3
Inlet Area = 17.61 Sq. Ft.
Outlet Area = 16.92 Sq. Ft.
Outlet Velocity (FPM) = CFM/16.92

Class I Max. RPM - 700
Class II Max. RPM - 913
Class III Max. RPM - 1150

540 CA SWSI



540 CF



540 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12000	709	309	2.67																		
18000	1063	324	3.67	387	5.65	439	7.81														
24000	1418	355	5.17	405	7.34	453	9.76	544	15.30	617	21.20										
30000	1773	390	7.32	438	9.78	480	12.40	557	18.30	633	25.00	699	32.10	758	39.60						
36000	2127	434	10.10	473	13.00	513	15.90	583	22.10	647	29.20	713	37.00	774	45.20	878	62.50				
42000	2482	483	13.70	516	17.00	549	20.40	617	27.20	676	34.60	730	42.60	786	51.30	895	70.20	987	90.10	1070	111.0
48000	2837	533	18.10	563	21.90	592	25.70	650	33.40	710	41.40	762	49.70	809	58.50	907	78.40	1003	99.80	1087	122.0
54000	3191	586	23.60	613	27.80	639	32.10	690	40.70	742	49.20	795	58.20	843	67.60	928	87.90	1015	110.0	1101	134.0
60000	3546	640	30.30	664	34.80	688	39.60	734	49.00	780	58.60	828	68.30	875	78.00	960	99.20	1035	122.0	1114	147.0
66000	3900	695	38.30	716	43.00	738	48.20	781	58.70	823	69.20	865	79.70	908	90.20	993	112.0	1067	136.0	1136	161.0
72000	4255	751	47.80	770	52.80	790	58.30	830	69.70	869	81.20	907	92.60	945	104.0	1025	127.0	1101	152.0	1167	178.0
78000	4610	807	58.80	825	64.30	843	70.00	880	82.10	917	94.70	952	107.0	987	119.0	1059	144.0	1133	170.0		
84000	4964	864	71.60	880	77.30	897	83.40	931	96.20	966	110.0	999	123.0	1032	136.0	1097	163.0	1166	190.0		
90000	5319	921	86.20	937	92.60	952	98.80	983	112.0	1015	126.0	1047	141.0	1079	155.0	1139	183.0				
96000	5674	978	103.0	993	109.0	1007	116.0	1037	130.0	1067	145.0	1097	160.0	1127	176.0						
102000	6028	1035	121.0	1049	128.0	1063	135.0	1091	150.0	1119	166.0	1147	182.0	1175	198.0						
108000	6383	1094	143.0	1107	150.0	1120	158.0	1145	172.0	1172	189.0										
114000	6738	1152	166.0	1164	174.0	1176	181.0														

540 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18000	1063	315	3.81																		
24000	1418	345	5.50	394	7.620	440	10.20														
30000	1773	389	8.00	426	10.40	466	12.90	541	19.10												
36000	2127	438	11.20	470	14.10	501	17.10	567	23.10	630	30.50										
42000	2482	490	15.30	519	18.80	546	22.10	600	29.00	657	36.10	712	44.50	764	53.60						
48000	2837	544	20.40	570	24.40	595	28.30	642	36.10	689	43.80	740	52.10	789	61.20	881	81.80				
54000	3191	600	26.80	623	31.10	646	35.60	690	44.50	730	53.00	773	62.00	818	71.10	904	91.50	985	115.0		
60000	3546	658	34.70	678	39.40	698	44.10	739	54.10	777	63.80	814	73.50	852	83.30	932	104.0	1009	127.0	1082	153.0
66000	3900	716	44.10	734	49.10	752	54.20	790	65.10	826	75.90	860	86.60	894	97.40	964	119.0	1037	142.0	1107	168.0
72000	4255	775	55.30	791	60.50	808	66.20	842	77.70	876	89.60	909	102.0	940	113.0	1002	136.0	1067	160.0	1135	186.0
78000	4610	834	68.30	849	74.00	865	80.10	896	92.30	927	105.0	959	118.0	989	131.0	1046	156.0	1103	181.0		
84000	4964	893	83.10	907	89.20	922	95.70	951	109.0	980	122.0	1009	136.0	1038	150.0	1092	177.0	1145	204.0		
90000	5319	953	101.0	967	107.0	980	114.0	1006	127.0	1033	141.0	1061	156.0	1088	171.0	1141	201.0				
96000	5674	1014	121.0	1026	127.0	1038	134.0	1063	148.0	1088	163.0	1114	179.0	1140	195.0						
102000	6028	1075	143.0	1085	149.0	1097	157.0	1120	172.0	1144	188.0										
108000	6383	1135	168.0	1145	175.0																

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).

600 CA SWSI

Wheel Diameter = 60”
Wheel Type = Airfoil
Tip Speed (FPM) = 15.71 x RPM
Max. BHP = 210 (RPM/1000)^3
Inlet Area = 21.55 Sq. Ft.
Outlet Area = 20.88 Sq. Ft.
Outlet Velocity (FPM) = CFM/20.88

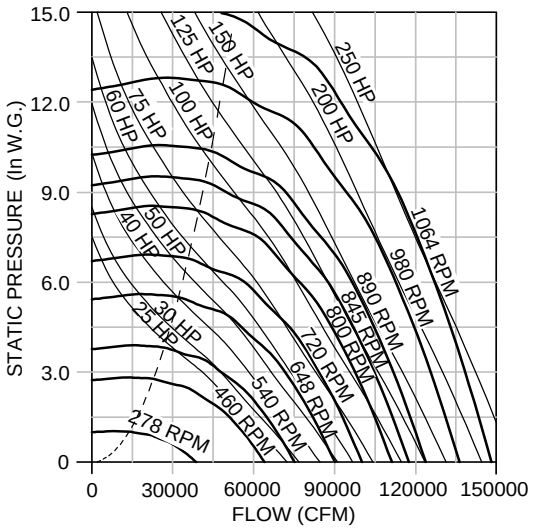
Class I Max. RPM - 647
Class II Max. RPM - 844
Class III Max. RPM - 1064

600 CF

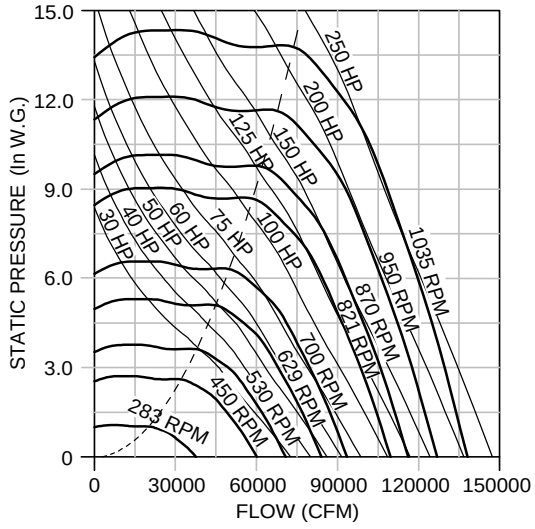
Wheel Diameter = 60”
Wheel Type = Flat Blade
Tip Speed (FPM) = 15.71 x RPM
Max. BHP = 232 (RPM/1000)^3
Inlet Area = 21.55 Sq. Ft.
Outlet Area = 20.88 Sq. Ft.
Outlet Velocity (FPM) = CFM/20.88

Class I Max. RPM - 630
Class II Max. RPM - 822
Class III Max. RPM - 1035

600 CA SWSI



600 CF



600 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
15000	718	278	3.30																		
22000	1053	291	4.48	348	6.92	395	9.59														
29000	1389	317	6.19	362	8.84	407	11.90	488	18.60	555	25.90										
36000	1724	346	8.62	390	11.60	428	14.80	499	22.00	568	30.10	627	38.80	680	47.90						
43000	2059	383	11.80	419	15.20	456	18.70	519	26.30	579	35.00	640	44.50	694	54.30	788	75.50				
50000	2394	423	15.70	454	19.70	485	23.60	548	31.90	601	40.90	652	50.70	705	61.50	802	84.10	885	109.0	960	134.0
57000	2730	466	20.60	494	25.20	520	29.50	576	38.80	630	48.30	676	58.40	721	69.50	813	93.60	899	120.0	974	147.0
64000	3065	510	26.50	535	31.50	560	36.70	607	46.70	657	57.00	705	67.80	747	79.10	827	104.0	909	131.0	987	160.0
71000	3400	556	33.80	578	39.10	601	44.90	644	56.10	687	67.30	733	79.00	776	90.80	851	116.0	923	144.0	997	174.0
78000	3735	602	42.30	622	48.10	643	54.30	683	66.70	722	79.00	762	91.40	803	104.0	880	131.0	946	159.0	1012	190.0
85000	4071	649	52.40	667	58.50	686	65.10	724	78.70	760	92.20	796	106.0	833	119.0	908	147.0	975	177.0	1035	208.0
92000	4406	697	64.40	714	71.00	731	77.80	766	92.30	800	107.0	833	122.0	866	136.0	936	166.0	1003	196.0	1063	229.0
99000	4741	745	78.00	761	85.10	776	92.00	809	108.0	841	123.0	872	139.0	903	155.0	965	186.0	1031	219.0		
106000	5077	793	93.50	808	101.0	823	109.0	853	125.0	883	141.0	913	159.0	942	175.0	999	209.0	1059	243.0		
113000	5412	842	111.0	856	119.0	870	127.0	897	144.0	926	162.0	954	180.0	982	198.0	1036	234.0				
120000	5747	891	131.0	904	140.0	917	148.0	943	165.0	969	184.0	996	203.0	1023	222.0						
127000	6082	939	153.0	952	162.0	964	171.0	989	189.0	1014	208.0	1039	228.0	1064	248.0						
134000	6418	989	178.0	1001	188.0	1012	197.0	1035	215.0	1059	236.0										
141000	6753	1039	206.0	1049	215.0	1060	225.0														

600 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
22000	1053	283	4.67																		
29000	1389	307	6.52	353	9.23	395	12.40														
36000	1724	344	9.38	379	12.30	416	15.40	485	23.00												
43000	2059	385	12.90	415	16.50	444	20.00	506	27.50	563	36.50										
50000	2394	429	17.50	456	21.60	481	25.70	532	33.90	585	42.60	635	53.00								
57000	2730	475	23.20	499	27.80	522	32.50	565	41.60	611	51.10	658	61.10	702	72.30						
64000	3065	522	30.10	543	35.20	565	40.60	605	51.00	643	61.20	684	71.80	726	82.80	805	108.0				
71000	3400	570	38.50	589	44.00	608	49.70	647	61.70	682	73.20	716	84.40	753	96.20	829	122.0	899	151.0	968	182.0
78000	3735	620	48.80	636	54.50	654	60.80	689	73.60	723	86.60	754	98.90	786	112.0	854	138.0	922	166.0	985	198.0
85000	4071	669	60.50	685	67.10	701	73.80	733	87.50	765	102.0	795	115.0	824	129.0	883	157.0	946	185.0	1008	217.0
92000	4406	720	74.80	734	81.50	748	88.30	778	103.0	808	118.0	837	134.0	864	148.0	918	178.0	974	208.0	1032	239.0
99000	4741	770	90.70	783	97.80	797	106.0	824	121.0	852	137.0	879	153.0	906	170.0	956	202.0	1006	234.0		
106000	5077	820	109.0	833	117.0	846	125.0	871	141.0	897	158.0	923	176.0	948	193.0	997	228.0				
113000	5412	872	130.0	884	138.0	895	146.0	919	164.0	943	182.0	967	200.0	991	218.0						
120000	5747	924	154.0	934	162.0	944	170.0	967	189.0	990	208.0	1012	227.0								
127000	6082	975	180.0	984	188.0	995	198.0	1016	217.0												

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).

660 CA SWSI

Wheel Diameter = 66”
Wheel Type = Airfoil
Tip Speed (FPM) = 17.28 x RPM
Max. BHP = 339 (RPM/1000)^3
Inlet Area = 26.15 Sq. Ft.
Outlet Area = 25.28 Sq. Ft.
Outlet Velocity (FPM) = CFM/25.28

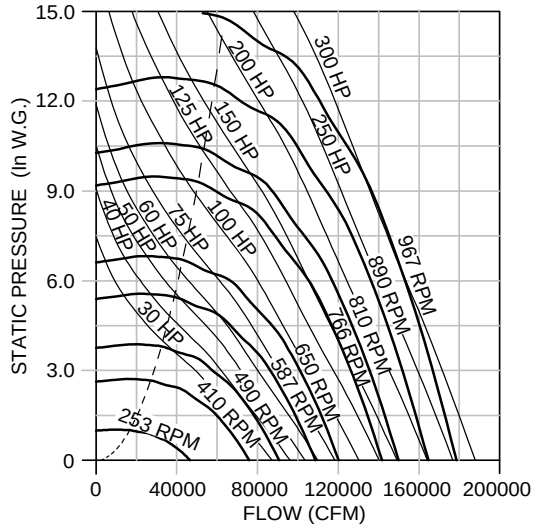
Class I Max. RPM - 588
Class II Max. RPM - 768
Class III Max. RPM - 967

660 CF

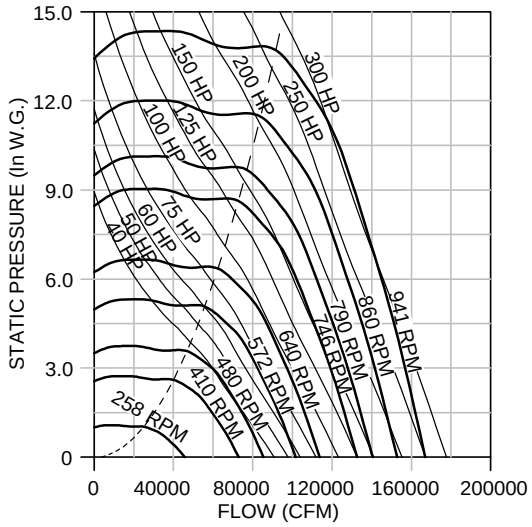
Wheel Diameter = 66”
Wheel Type = Flat Blade
Tip Speed (FPM) = 17.28 x RPM
Max. BHP = 374 (RPM/1000)^3
Inlet Area = 26.15 Sq. Ft.
Outlet Area = 25.28 Sq. Ft.
Outlet Velocity (FPM) = CFM/25.28

Class I Max. RPM - 573
Class II Max. RPM - 747
Class III Max. RPM - 941

660 CA SWSI



660 CF



660 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
18000	711	253	4.00																		
27000	1067	265	5.49	317	8.48	360	11.80														
36000	1423	291	7.78	332	11.00	371	14.70	445	22.90	505	31.80										
45000	1779	320	11.00	359	14.70	393	18.60	456	27.50	518	37.40	572	48.10	620	59.30						
54000	2135	356	15.20	387	19.50	420	23.90	478	33.30	530	43.90	583	55.30	634	67.90	719	93.70				
63000	2491	396	20.60	423	25.60	450	30.70	505	40.80	554	51.90	598	63.90	644	77.10	732	105.0	808	135.0	876	167.0
72000	2847	438	27.30	462	33.00	486	38.90	533	50.20	581	61.90	624	74.50	663	88.00	742	117.0	821	150.0	890	183.0
81000	3203	481	35.60	503	41.90	524	48.30	566	61.30	608	74.00	651	87.30	690	101.0	760	132.0	830	165.0	901	201.0
90000	3559	525	45.50	545	52.50	564	59.50	602	73.80	639	87.90	678	102.0	717	117.0	786	149.0	848	183.0	912	220.0
99000	3915	571	57.90	588	65.00	606	72.70	641	88.50	675	104.0	709	120.0	744	136.0	814	169.0	874	204.0	930	241.0
108000	4271	616	71.90	632	79.70	648	87.70	681	105.0	713	122.0	744	140.0	775	157.0	840	191.0	902	228.0	956	267.0
117000	4627	663	88.90	677	96.90	692	106.0	722	124.0	752	143.0	781	161.0	809	179.0	868	217.0	928	255.0		
126000	4983	709	108.0	723	117.0	737	126.0	764	145.0	792	165.0	820	185.0	846	205.0	900	245.0	955	285.0		
135000	5339	757	131.0	769	140.0	782	149.0	807	169.0	833	190.0	859	212.0	885	234.0	934	276.0				
144000	5695	803	155.0	815	165.0	827	175.0	851	196.0	875	218.0	900	241.0	924	264.0						
153000	6051	850	183.0	862	194.0	873	205.0	896	227.0	918	249.0	942	274.0	964	298.0						
162000	6407	898	215.0	909	227.0	920	238.0	940	260.0	962	285.0										
171000	6763	946	251.0	956	262.0	965	273.0														

660 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
27000	1067	258	5.73																		
36000	1423	282	8.21	323	11.50	360	15.30														
45000	1779	319	12.00	349	15.60	382	19.50	443	28.60												
54000	2135	359	16.80	386	21.40	411	25.70	465	34.90	516	45.80										
63000	2491	402	23.00	426	28.30	448	33.40	491	43.40	538	54.20	583	66.80	625	80.20						
72000	2847	447	30.90	468	36.80	488	42.60	527	54.40	565	66.00	606	78.20	646	91.80	721	123.0				
81000	3203	493	40.60	511	46.90	530	53.60	566	67.00	599	79.90	633	93.00	670	107.0	741	138.0	807	172.0		
90000	3559	540	52.40	556	59.20	573	66.50	606	81.30	638	96.30	667	110.0	698	125.0	764	156.0	827	191.0	886	229.0
99000	3915	588	66.60	603	74.20	617	81.60	648	98.00	678	115.0	706	131.0	733	147.0	790	179.0	850	213.0	907	252.0
108000	4271	636	83.40	649	91.20	663	99.60	691	117.0	719	135.0	746	153.0	771	170.0	821	205.0	875	241.0	930	279.0
117000	4627	685	103.0	697	112.0	710	121.0	735	139.0	761	158.0	787	178.0	811	197.0	857	23.0	904	272.0		
126000	4983	733	125.0	745	135.0	757	145.0	780	164.0	804	184.0	828	205.0	852	226.0	896	267.0	939	308.0		
135000	5339	783	152.0	794	162.0	805	172.0	826	192.0	848	213.0	871	236.0	893	258.0	936	303.0				
144000	5695	833	182.0	843	192.0	852	202.0	873	224.0	893	246.0	914	269.0	935	293.0						
153000	6051	883	216.0	891	225.0	901	237.0	920	260.0	939	283.0										
162000	6407	932	253.0	940	263.0																

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).

730 CA SWSI

Wheel Diameter = 73”
Wheel Type = Airfoil
Tip Speed (FPM) = 19.11 x RPM
Max. BHP = 561 (RPM/1000)^3
Inlet Area = 31.95 Sq. Ft.
Outlet Area = 30.92 Sq. Ft.
Outlet Velocity (FPM) = CFM/30.92

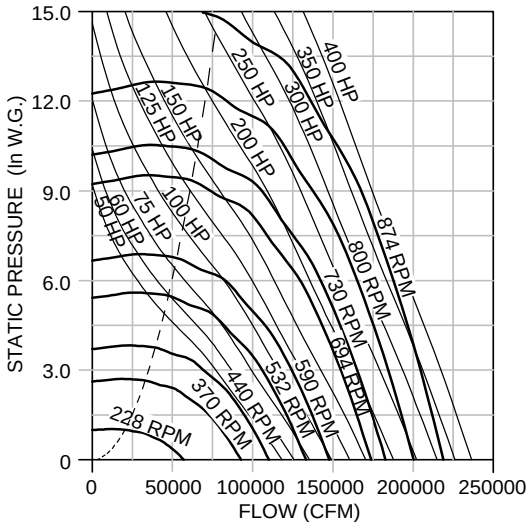
Class I Max. RPM - 532
Class II Max. RPM - 694
Class III Max. RPM - 874

730 CF

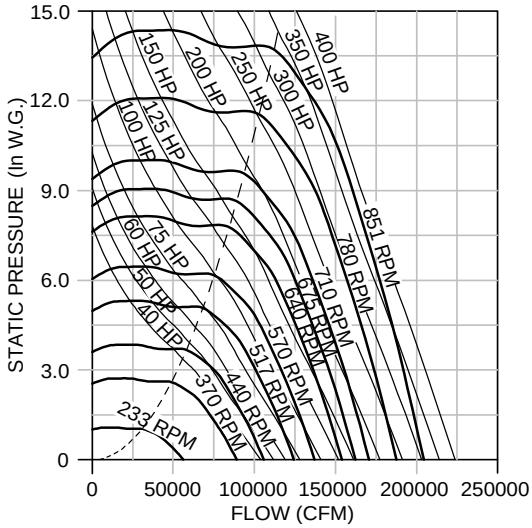
Wheel Diameter = 73”
Wheel Type = Flat Blade
Tip Speed (FPM) = 19.11 x RPM
Max. BHP = 618 (RPM/1000)^3
Inlet Area = 31.95 Sq. Ft.
Outlet Area = 30.92 Sq. Ft.
Outlet Velocity (FPM) = CFM/30.92

Class I Max. RPM - 518
Class II Max. RPM - 675
Class III Max. RPM - 851

730 CA SWSI



730 CF



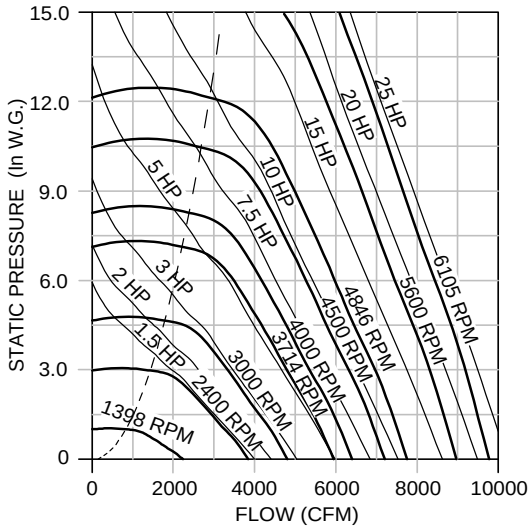
730 CA SWSI

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
22000	711	228	4.84																		
33000	1067	239	6.66	286	10.30	325	14.30														
44000	1422	263	9.51	300	13.50	335	17.90	402	27.90	457	39.00										
55000	1778	289	13.50	324	17.90	355	22.70	412	33.60	469	45.90	517	58.80	560	72.30						
66000	2134	322	18.70	350	23.90	380	29.30	432	40.70	479	53.60	527	67.60	573	82.90	650	115.0				
77000	2489	358	25.20	382	31.20	406	37.30	457	50.10	501	63.60	541	78.40	582	94.20	662	129.0	730	165.0	792	204.0
88000	2845	395	33.20	418	40.50	439	47.40	481	61.10	525	75.60	564	91.10	599	107.0	671	144.0	742	183.0	804	224.0
99000	3201	435	43.60	454	51.10	474	59.20	511	74.70	550	90.70	589	107.0	624	124.0	687	161.0	751	202.0	815	246.0
110000	3557	475	55.90	492	64.00	510	72.80	544	90.20	578	108.0	613	125.0	648	143.0	710	181.0	766	223.0	824	269.0
121000	3912	516	70.70	531	79.30	547	88.60	579	108.0	610	127.0	641	147.0	673	166.0	735	206.0	790	249.0	840	295.0
132000	4268	557	88.00	571	97.30	586	108.0	615	128.0	644	149.0	672	170.0	700	191.0	759	234.0	815	278.0	864	326.0
143000	4624	599	109.0	612	119.0	625	129.0	652	151.0	680	174.0	706	197.0	731	219.0	785	265.0	839	312.0		
154000	4979	641	132.0	653	143.0	666	154.0	691	178.0	716	202.0	741	227.0	765	251.0	813	299.0	863	348.0		
165000	5335	683	159.0	695	171.0	706	182.0	729	206.0	753	232.0	776	258.0	800	286.0	844	337.0				
176000	5691	726	190.0	736	201.0	747	214.0	769	240.0	791	267.0	813	295.0	835	323.0						
187000	6047	768	224.0	778	236.0	789	250.0	809	277.0	830	305.0	851	335.0	871	364.0						
198000	6402	811	263.0	821	276.0	831	290.0	850	318.0	869	347.0										
209000	6758	855	307.0	864	321.0	872	334.0														

730 CF

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
33000	1067	233	6.98																		
44000	1422	255	10.00	292	14.00	326	18.80														
55000	1778	288	14.70	315	19.00	345	23.80	400	34.90												
66000	2134	325	20.70	348	25.90	371	31.30	420	42.50	466	55.80										
77000	2489	363	28.10	385	34.60	405	40.80	444	53.20	487	66.60	527	81.60	565	98.00						
88000	2845	404	37.70	423	44.90	441	52.00	476	66.40	510	80.40	548	95.70	584	112.0	651	149.0				
99000	3201	445	49.40	462	57.30	479	65.50	511	81.70	541	97.50	572	114.0	605	130.0	669	168.0	729	210.0		
110000	3557	488	64.00	503	72.60	518	81.40	548	99.50	576	117.0	603	135.0	631	153.0	690	190.0	747	233.0	801	280.0
121000	3912	531	81.30	544	90.30	558	100.0	585	119.0	612	140.0	638	160.0	662	179.0	714	219.0	768	261.0	819	307.0
132000	4268	575	102.0	587	112.0	599	122.0	624	143.0	649	165.0	674	187.0	697	208.0	742	250.0	790	294.0	840	340.0
143000	4624	619	126.0	630	137.0	641	147.0	664	170.0	688	194.0	711	217.0	733	241.0	775	287.0	817	333.0		
154000	4979	662	153.0	673	165.0	684	177.0	705	200.0	726	225.0	748	250.0	769	275.0	810	327.0	848	375.0		
165000	5335	707	185.0	717	197.0	727	210.0	746	234.0	766	260.0	787	288.0	807	315.0	846	370.0				
176000	5691	752	222.0	761	234.0	770	247.0	789	274.0	807	301.0	826	329.0	845	358.0						
187000	6047	797	263.0	805	275.0	814	290.0	831	317.0	848	345.0										
198000	6402	842	309.0	850	322.0																

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).



Wheel Diameter = 12”
Wheel Type = Airfoil
Tip Speed (FPM) = 3.14 x RPM
Max. BHP = .10 (RPM/1000)^3
Inlet Area = 1.18 Sq. Ft.
Outlet Area = 1.49 Sq. Ft.
Outlet Velocity (FPM) = CFM/1.49

Class I Max. RPM - 3714
Class II Max. RPM - 4846
Class III Max. RPM - 6105

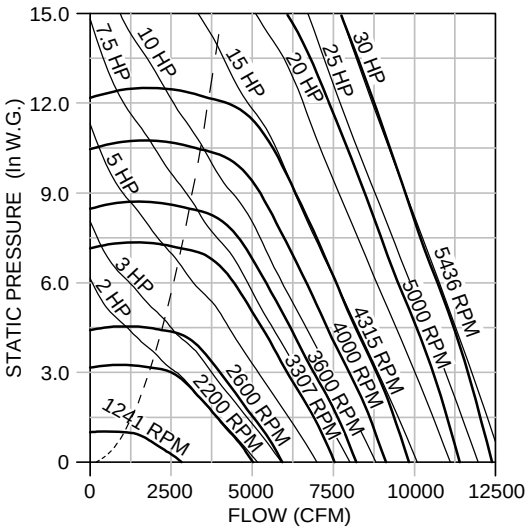
120 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
900	604	1398	.24																		
1400	939	1509	.35	1752	.53	1988	.74														
1900	1275	1722	.53	1922	.73	2105	.94	2461	1.47	2803	2.02										
2400	1610	1959	.78	2142	1.03	2308	1.28	2604	1.79	2888	2.41	3168	3.11	3440	3.81						
2900	1946	2213	1.11	2380	1.40	2533	1.70	2809	2.30	3056	2.91	3293	3.60	3527	4.38	3987	6.08	4424	7.77		
3400	2281	2470	1.54	2633	1.87	2774	2.21	3032	2.91	3267	3.62	3481	4.33	3685	5.08	4086	6.83	4481	8.81	4866	10.80
3900	2617	2733	2.09	2889	2.46	3027	2.85	3268	3.63	3489	4.44	3695	5.25	3887	6.06	4245	7.75	4595	9.74	4942	12.00
4400	2953	3008	2.77	3148	3.19	3284	3.62	3516	4.48	3723	5.38	3919	6.29	4104	7.21	4444	9.04	4761	10.90	5072	13.10
4900	3288	3292	3.61	3415	4.07	3541	4.54	3771	5.50	3969	6.47	4153	7.46	4330	8.48	4660	10.50	4960	12.60	5246	14.70
5400	3624	3583	4.62	3690	5.11	3804	5.63	4027	6.67	4222	7.73	4398	8.81	4566	9.91	4882	12.20	5175	14.40	5448	16.70
5900	3959	3878	5.83	3974	6.36	4073	6.89	4283	8.03	4479	9.190	4650	10.30	4810	11.50	5113	14.00	5396	16.40	5663	18.90
6400	4295	4175	7.24	4263	7.80	4353	8.38	4545	9.60	4734	10.80	4906	12.10	5062	13.40	5352	15.90	5624	18.60	5882	21.30
6900	4630	4476	8.88	4554	9.47	4639	10.10	4813	11.40	4992	12.70	5163	14.10	5318	15.40	5598	18.20	5859	21.00		
7400	4966	4779	10.80	4854	11.40	4929	12.10	5087	13.40	5254	14.80	5419	16.30	5574	17.70	5850	20.60	6103	23.60		
7900	5302	5080	12.90	5150	13.60	5220	14.30	5365	15.70	5520	17.20	5678	18.70	5830	20.20						
8400	5637	5385	15.30	5451	16.00	5518	16.80	5652	18.30	5792	19.80	5941	21.40	6087	23.00						
8900	5973	5694	18.10	5755	18.80	5815	19.60	5940	21.10	6072	22.80										
9400	6308	6002	21.10	6056	21.90																

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).

Wheel Diameter = 13.5”
Wheel Type = Airfoil
Tip Speed (FPM) = 3.53 x RPM
Max. BHP = .19 (RPM/1000)^3
Inlet Area = 2.24 Sq. Ft.
Outlet Area = 1.89 Sq. Ft.
Outlet Velocity (FPM) = CFM/1.89

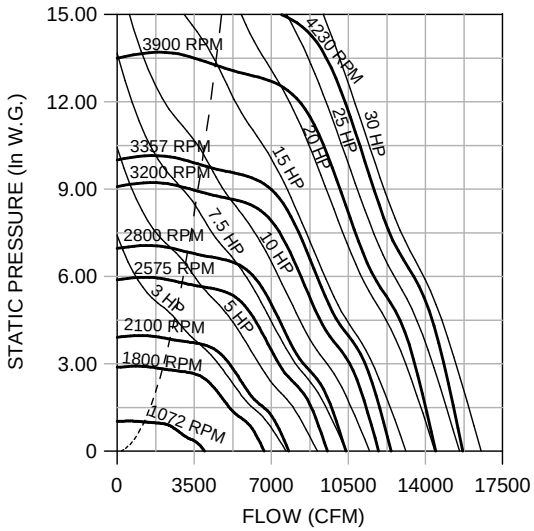
Class I Max. RPM - 3307
Class II Max. RPM - 4315
Class III Max. RPM - 5436



135 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1100	582	1241	.30																		
1700	899	1323	.42	1547	.66	1762	.90														
2300	1216	1498	.63	1678	.87	1846	1.14	2176	1.80	2486	2.47										
2900	1534	1694	.91	1860	1.21	2010	1.51	2280	2.16	2544	2.95	2802	3.80	3049	4.64						
3500	1851	1906	1.28	2057	1.63	2196	1.99	2446	2.72	2671	3.48	2890	4.37	3108	5.37	3531	7.41	3924	9.48		
4100	2169	2122	1.76	2268	2.16	2395	2.57	2630	3.42	2842	4.28	3036	5.14	3225	6.10	3597	8.34	3962	10.70	4312	13.10
4700	2486	2342	2.37	2484	2.82	2606	3.28	2825	4.24	3026	5.21	3212	6.19	3385	7.17	3716	9.33	4041	11.90	4362	14.60
5300	2804	2568	3.11	2700	3.62	2822	4.14	3030	5.19	3220	6.28	3398	7.39	3565	8.49	3872	10.70	4165	13.10	4454	15.90
5900	3121	2805	4.04	2921	4.59	3038	5.16	3244	6.32	3422	7.50	3591	8.71	3752	9.94	4049	12.40	4323	14.90	4585	17.60
6500	3439	3047	5.14	3149	5.74	3256	6.36	3460	7.63	3634	8.92	3793	10.20	3946	11.60	4234	14.30	4498	17.00	4745	19.70
7100	3756	3293	6.45	3384	7.09	3482	7.77	3675	9.14	3849	10.50	4003	11.90	4148	13.40	4424	16.30	4682	19.30	4921	22.20
7700	4074	3545	8.01	3626	8.68	3713	9.40	3894	10.90	4064	12.40	4217	13.90	4357	15.40	4621	18.50	4870	21.70	5104	25.00
8300	4391	3794	9.77	3872	10.50	3949	11.30	4115	12.80	4281	14.40	4433	16.10	4571	17.70	4825	21.00	5064	24.40	5292	27.90
8900	4708	4050	11.80	4119	12.60	4190	13.40	4343	15.10	4499	16.80	4650	18.50	4787	20.20	5035	23.80	5265	27.40		
9500	5026	4305	14.20	4370	15.00	4437	15.80	4575	17.60	4721	19.40	4866	21.20	5003	23.10	5248	26.80				
10100	5343	4558	16.80	4619	17.60	4681	18.50	4810	20.40	4947	22.30	5085	24.20	5219	26.20						
10700	5661	4816	19.70	4875	20.70	4934	21.60	5052	23.50	5176	25.50	5307	27.50								
11300	5978	5077	23.10	5131	24.00	5184	25.00	5296	27.00	5412	29.10										
11900	6296	5336	26.80	5384	27.70	5434	28.70														

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).



Wheel Diameter = 15”
Wheel Type = Airfoil
Tip Speed (FPM) = 3.93 x RPM
Max. BHP = .37 (RPM/1000)^3
Inlet Area = 2.78 Sq. Ft.
Outlet Area = 2.33 Sq. Ft.
Outlet Velocity (FPM) = CFM/2.33

Class I Max. RPM - 2575
Class II Max. RPM - 3357
Class III Max. RPM - 4230

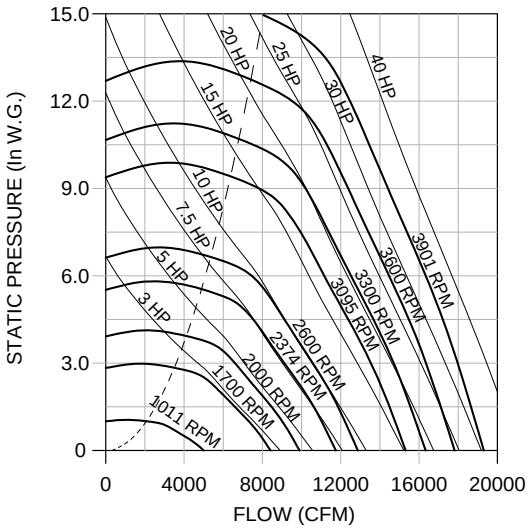
150 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1250	536	1072	.31																		
2100	901	1101	.45	1330	.71	1527	.99														
2950	1266	1214	.67	1381	.94	1556	1.27	1881	2.01	2159	2.78	2402	3.59								
3800	1630	1392	1.00	1523	1.32	1650	1.66	1918	2.43	2184	3.33	2428	4.31	2650	5.31	3041	7.37				
4650	1995	1571	1.43	1703	1.83	1813	2.22	2021	3.05	2238	3.97	2460	4.99	2674	6.12	3067	8.52	3413	11.00	3724	13.50
5500	2360	1728	1.92	1885	2.46	1995	2.94	2180	3.87	2355	4.84	2536	5.89	2723	7.04	3093	9.59	3437	12.40	3751	15.30
6350	2725	1904	2.56	2046	3.17	2177	3.79	2360	4.88	2517	5.95	2669	7.07	2822	8.24	3144	10.80	3467	13.70	3774	16.90
7200	3090	2104	3.42	2208	4.01	2339	4.73	2544	6.07	2696	7.28	2835	8.50	2969	9.75	3240	12.40	3524	15.30	3810	18.60
8050	3454	2314	4.50	2394	5.09	2496	5.79	2721	7.41	2881	8.83	3014	10.20	3139	11.50	3379	14.30	3622	17.30	3875	20.60
8900	3819	2529	5.82	2597	6.43	2675	7.12	2879	8.83	3062	10.60	3199	12.10	3320	13.60	3543	16.60	3760	19.70	3980	23.10
9750	4184	2746	7.38	2807	8.04	2870	8.72	3036	10.40	3229	12.40	3381	14.20	3505	15.90	3720	19.20	3921	22.50	4119	25.90
10600	4549	2968	9.27	3020	9.93	3077	10.70	3209	12.30	3382	14.40	3553	16.50	3687	18.40	3903	22.00	4096	25.60		
11450	4914	3189	11.40	3238	12.20	3289	12.90	3401	14.60	3542	16.60	3710	18.90	3861	21.20	4088	25.20				
12300	5278	3409	13.90	3456	14.70	3503	15.50	3602	17.20	3719	19.10	3863	21.40	4020	24.00						
13150	5643	3636	16.80	3679	17.60	3721	18.50	3808	20.20	3910	22.20	4031	24.40	4173	27.00						
14000	6008	3863	20.10	3899	20.90	3937	21.70	4022	23.60	4110	25.60	4213	27.80								
14850	6373	4088	23.70	4119	24.50	4160	25.50														

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).

Wheel Diameter = 16.5”
Wheel Type = Airfoil
Tip Speed (FPM) = 4.32 x RPM
Max. BHP = .57 (RPM/1000)^3
Inlet Area = 3.34 Sq. Ft.
Outlet Area = 2.82 Sq. Ft.
Outlet Velocity (FPM) = CFM/2.82

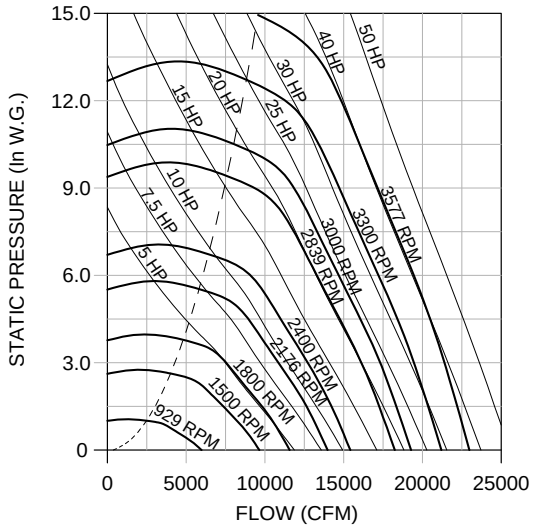
Class I Max. RPM - 2374
Class II Max. RPM - 3095
Class III Max. RPM - 3901



165 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2150	762	1011	.47																		
3100	1099	1067	.66	1258	.99	1433	1.36														
4050	1436	1189	.95	1334	1.31	1480	1.72	1765	2.63												
5000	1773	1330	1.34	1462	1.77	1580	2.20	1816	3.18	2052	4.29	2269	5.46								
5950	2109	1477	1.85	1603	2.35	1714	2.86	1913	3.89	2111	5.05	2312	6.33	2505	7.69						
6900	2446	1631	2.48	1748	3.06	1855	3.64	2043	4.82	2213	6.03	2382	7.33	2556	8.77	2894	11.90	3202	15.10		
7850	2783	1793	3.27	1899	3.92	2000	4.58	2182	5.91	2342	7.25	2492	8.63	2639	10.10	2944	13.30	3242	16.90	3519	20.50
8800	3120	1962	4.24	2056	4.95	2150	5.69	2325	7.18	2480	8.67	2622	10.20	2756	11.70	3021	15.00	3293	18.70	3561	22.60
9750	3457	2137	5.42	2219	6.19	2305	6.99	2471	8.64	2622	10.30	2760	11.90	2888	13.60	3129	17.00	3368	20.70	3615	24.80
10700	3794	2314	6.82	2389	7.66	2466	8.52	2621	10.30	2767	12.10	2901	13.90	3026	15.70	3256	19.40	3473	23.20	3692	27.30
11650	4131	2493	8.46	2562	9.36	2632	10.30	2775	12.20	2915	14.20	3045	16.10	3167	18.10	3392	22.10	3597	26.10	3796	30.30
12600	4468	2677	10.40	2739	11.40	2803	12.30	2934	14.40	3065	16.50	3192	18.60	3311	20.80	3531	25.00	3730	29.30		
13550	4804	2859	12.60	2919	13.60	2977	14.70	3097	16.80	3220	19.10	3341	21.40	3458	23.70	3672	28.30	3869	32.90		
14500	5141	3045	15.20	3098	16.20	3153	17.30	3265	19.60	3379	22.00	3494	24.40	3606	26.90	3816	31.80				
15450	5478	3231	18.00	3282	19.20	3333	20.30	3436	22.70	3542	25.20	3650	27.80	3757	30.40						
16400	5815	3416	21.20	3464	22.40	3512	23.70	3609	26.20	3709	28.80	3810	31.50								
17350	6152	3602	24.80	3649	26.10	3695	27.40	3787	30.10	3878	32.80										
18300	6489	3793	28.90	3836	30.20	3878	31.60														

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).



Wheel Diameter = 18”
Wheel Type = Airfoil
Tip Speed (FPM) = 4.71 x RPM
Max. BHP = .89 (RPM/1000)^3
Inlet Area = 4.05 Sq. Ft.
Outlet Area = 3.35 Sq. Ft.
Outlet Velocity (FPM) = CFM/3.35

Class I Max. RPM - 2176
Class II Max. RPM - 2839
Class III Max. RPM - 3577

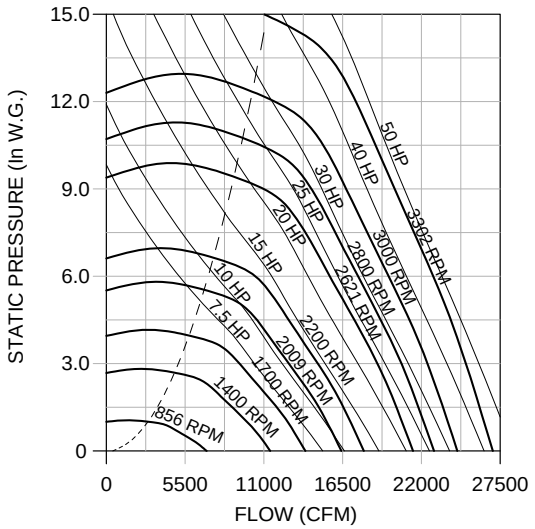
180 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2600	776	929	.57																		
3700	1104	979	.79	1155	1.19	1315	1.62														
4800	1432	1088	1.12	1221	1.55	1357	2.03	1618	3.12												
5900	1761	1214	1.58	1335	2.08	1444	2.59	1663	3.75	1881	5.07	2080	6.45								
7000	2089	1344	2.15	1460	2.74	1563	3.34	1747	4.56	1931	5.93	2118	7.46	2296	9.07						
8100	2417	1481	2.86	1590	3.55	1688	4.23	1861	5.61	2019	7.04	2177	8.60	2339	10.30	2651	14.00	2934	17.80		
9200	2746	1625	3.76	1723	4.52	1817	5.30	1985	6.86	2132	8.42	2271	10.00	2409	11.80	2694	15.60	2969	19.80	3224	24.10
10300	3074	1774	4.84	1862	5.68	1950	6.55	2111	8.29	2255	10.00	2386	11.80	2510	13.60	2757	17.50	3012	21.90	3260	26.50
11400	3402	1929	6.16	2008	7.08	2087	8.01	2241	9.94	2381	11.90	2508	13.80	2626	15.80	2850	19.80	3075	24.20	3305	29.00
12500	3731	2087	7.73	2157	8.71	2229	9.72	2374	11.80	2509	13.90	2634	16.10	2749	18.20	2961	22.50	3163	27.00	3369	31.80
13600	4059	2248	9.58	2311	10.60	2377	11.70	2510	14.00	2640	16.30	2762	18.60	2874	20.90	3081	25.50	3271	30.20	3457	35.10
14700	4388	2410	11.70	2469	12.90	2528	14.00	2651	16.40	2774	18.90	2892	21.40	3002	23.80	3204	28.80	3389	33.90	3563	39.00
15800	4716	2573	14.20	2628	15.40	2682	16.60	2796	19.10	2910	21.70	3024	24.40	3131	27.10	3330	32.50	3511	37.80		
16900	5044	2738	17.00	2788	18.30	2840	19.60	2945	22.20	3052	25.00	3159	27.80	3263	30.70	3458	36.40				
18000	5373	2904	20.20	2952	21.60	2999	22.90	3096	25.70	3196	28.60	3297	31.60	3397	34.60						
19100	5701	3069	23.80	3115	25.20	3160	26.60	3250	29.60	3343	32.60	3439	35.80	3534	39.00						
20200	6029	3233	27.70	3277	29.20	3321	30.80	3407	33.90	3494	37.00										
21300	6358	3403	32.20	3444	33.80	3485	35.40	3564	38.60												

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).

Wheel Diameter = 19.5”
Wheel Type = Airfoil
Tip Speed (FPM) = 5.11 x RPM
Max. BHP = 1.32 $(RPM/1000)^3$
Inlet Area = 4.62 Sq. Ft.
Outlet Area = 3.94 Sq. Ft.
Outlet Velocity (FPM) = CFM/3.94

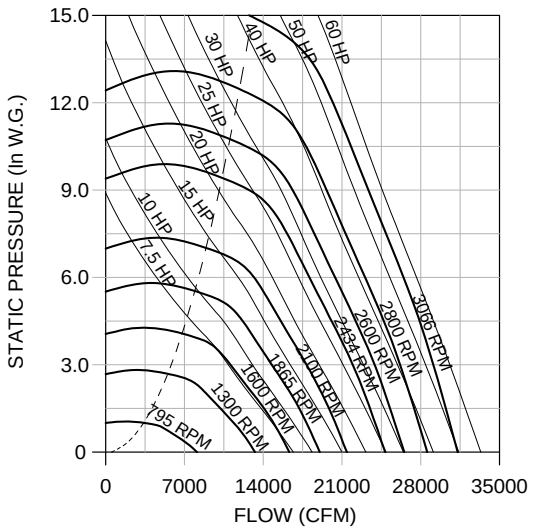
Class I Max. RPM - 2009
Class II Max. RPM - 2621
Class III Max. RPM - 3302



195 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	761	856	.66																		
4300	1091	901	.91	1065	1.38	1212	1.89														
5600	1421	1001	1.31	1125	1.80	1251	2.37	1493	3.65												
6900	1751	1118	1.84	1230	2.42	1331	3.02	1534	4.39	1735	5.93	1919	7.55								
8200	2081	1239	2.51	1346	3.20	1441	3.90	1611	5.34	1782	6.95	1954	8.74	2118	10.60						
9500	2411	1366	3.35	1467	4.16	1558	4.97	1717	6.57	1863	8.26	2009	10.10	2159	12.10	2447	16.40	2708	20.90		
10800	2741	1500	4.41	1591	5.31	1678	6.23	1832	8.05	1968	9.89	2096	11.80	2224	13.80	2486	18.30	2740	23.20	2976	28.30
12100	3071	1639	5.70	1720	6.68	1801	7.70	1950	9.75	2082	11.80	2203	13.90	2317	16.00	2546	20.60	2781	25.70	3010	31.20
13400	3401	1783	7.26	1855	8.33	1929	9.45	2071	11.70	2200	14.00	2317	16.30	2426	18.50	2632	23.30	2840	28.50	3052	34.10
14700	3730	1930	9.12	1994	10.30	2061	11.50	2194	13.90	2319	16.40	2434	18.90	2540	21.40	2735	26.40	2922	31.70	3112	37.50
16000	4060	2079	11.30	2138	12.50	2198	13.80	2321	16.50	2441	19.20	2553	21.90	2657	24.60	2847	30.00	3022	35.60	3193	41.40
17300	4390	2231	13.90	2284	15.20	2339	16.50	2452	19.40	2565	22.30	2674	25.20	2775	28.10	2962	34.00	3132	39.90	3292	45.90
18600	4720	2382	16.80	2433	18.20	2482	19.60	2587	22.60	2692	25.70	2796	28.80	2895	32.00	3079	38.30	3245	44.60		
19900	5050	2535	20.20	2581	21.60	2629	23.20	2725	26.30	2824	29.60	2922	32.90	3018	36.20	3198	43.00				
21200	5380	2690	24.00	2733	25.50	2777	27.10	2866	30.40	2958	33.90	3051	37.40	3143	40.90						
22500	5710	2843	28.20	2885	29.90	2926	31.60	3009	35.00	3095	38.60	3183	42.30	3270	46.10						
23800	6040	2996	32.90	3036	34.70	3076	36.50	3156	40.20	3235	43.90										
25100	6370	3154	38.30	3191	40.10	3229	42.00	3301	45.70												

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).



Wheel Diameter = 21”
Wheel Type = Airfoil
Tip Speed (FPM) = 5.50 x RPM
Max. BHP = 1.91 (RPM/1000)^3
Inlet Area = 5.38 Sq. Ft.
Outlet Area = 4.56 Sq. Ft.
Outlet Velocity (FPM) = CFM/4.56

Class I Max. RPM - 1865
Class II Max. RPM - 2434
Class III Max. RPM - 3066

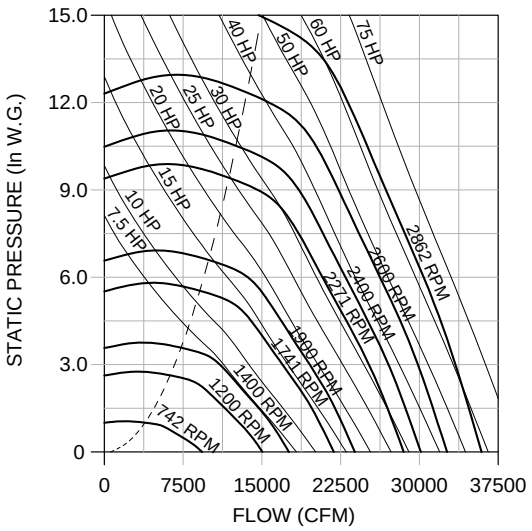
210 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3500	767	795	.77																		
5000	1096	837	1.06	989	1.61	1126	2.19														
6500	1425	930	1.52	1045	2.10	1162	2.76	1386	4.23												
8000	1754	1038	2.13	1142	2.81	1236	3.51	1424	5.09	1611	6.88	1782	8.76								
9500	2083	1150	2.91	1249	3.71	1337	4.52	1496	6.19	1654	8.05	1814	10.10	1967	12.30						
11000	2412	1267	3.88	1361	4.81	1445	5.74	1593	7.61	1729	9.56	1865	11.70	2004	14.00	2271	19.00	2514	24.20		
12500	2741	1391	5.09	1475	6.13	1556	7.19	1699	9.30	1826	11.40	1945	13.60	2064	16.00	2308	21.20	2544	26.90	2762	32.80
14000	3070	1519	6.57	1594	7.71	1670	8.90	1808	11.30	1931	13.60	2043	16.00	2150	18.50	2362	23.80	2581	29.70	2793	36.00
15500	3399	1652	8.37	1719	9.61	1788	10.90	1920	13.50	2039	16.10	2149	18.80	2250	21.40	2441	26.90	2635	32.90	2832	39.50
17000	3728	1788	10.50	1848	11.80	1910	13.20	2034	16.10	2150	19.00	2256	21.80	2355	24.70	2536	30.50	2710	36.70	2887	43.30
18500	4057	1926	13.00	1980	14.40	2036	15.90	2151	19.00	2262	22.10	2366	25.30	2463	28.40	2639	34.70	2803	41.10	2962	47.80
20000	4385	2065	16.00	2115	17.50	2166	19.00	2272	22.30	2377	25.70	2478	29.10	2572	32.40	2745	39.20	2903	46.00	3053	53.00
21500	4714	2205	19.30	2252	20.90	2298	22.60	2396	26.00	2494	29.60	2591	33.20	2683	36.90	2854	44.20	3008	51.50		
23000	5043	2346	23.10	2390	24.90	2434	26.60	2524	30.30	2615	34.00	2707	37.90	2797	41.80	2963	49.60				
24500	5372	2489	27.50	2530	29.30	2571	31.20	2653	35.00	2739	39.00	2826	43.00	2912	47.20						
26000	5701	2631	32.40	2670	34.30	2708	36.30	2786	40.30	2865	44.40	2948	48.70	3029	53.00						
27500	6030	2772	37.70	2810	39.80	2847	41.90	2921	46.20	2995	50.50										
29000	6359	2918	43.90	2953	46.10	2988	48.30	3056	52.60												

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).

Wheel Diameter = 22.5”
Wheel Type = Airfoil
Tip Speed (FPM) = 5.89 x RPM
Max. BHP = 2.70 (RPM/1000)^3
Inlet Area = 6.04 Sq. Ft.
Outlet Area = 5.24 Sq. Ft.
Outlet Velocity (FPM) = CFM/5.24

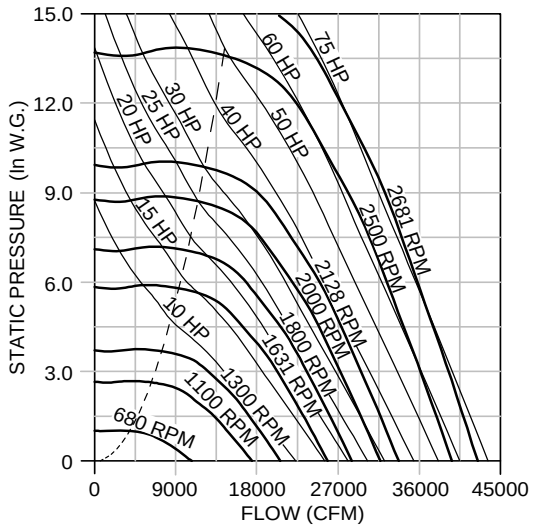
Class I Max. RPM - 1741
Class II Max. RPM - 2271
Class III Max. RPM - 2862



225 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4000	763	742	.88																		
5800	1106	784	1.24	924	1.86	1052	2.54														
7600	1450	876	1.79	982	2.47	1088	3.22	1296	4.94												
9400	1793	982	2.55	1078	3.34	1165	4.16	1335	5.97	1507	8.05	1666	10.20								
11200	2137	1092	3.51	1184	4.47	1265	5.41	1410	7.35	1553	9.50	1699	11.90	1840	14.40						
13000	2480	1207	4.73	1292	5.82	1371	6.93	1508	9.13	1632	11.40	1754	13.80	1880	16.50	2126	22.30	2352	28.50		
14800	2824	1329	6.26	1406	7.49	1480	8.75	1612	11.20	1730	13.80	1838	16.30	1945	19.10	2165	25.10	2382	31.70	2585	38.60
16600	3167	1456	8.15	1524	9.50	1592	10.90	1719	13.70	1833	16.50	1937	19.30	2034	22.20	2225	28.30	2422	35.20	2617	42.60
18400	3511	1587	10.40	1646	11.90	1708	13.40	1829	16.50	1939	19.60	2040	22.70	2134	25.90	2309	32.30	2481	39.20	2659	46.80
20200	3854	1720	13.20	1774	14.70	1829	16.40	1941	19.70	2048	23.20	2146	26.60	2238	30.00	2405	36.90	2562	44.00	2720	51.70
22000	4198	1854	16.40	1904	18.10	1954	19.80	2057	23.40	2158	27.10	2254	30.90	2343	34.60	2507	42.10	2657	49.60	2800	57.40
23800	4541	1991	20.10	2036	21.90	2082	23.80	2176	27.60	2272	31.60	2364	35.60	2451	39.70	2611	47.70	2757	55.80		
25600	4885	2127	24.40	2171	26.40	2213	28.40	2299	32.40	2388	36.60	2476	41.00	2561	45.30	2718	54.00	2861	62.70		
27400	5229	2267	29.40	2306	31.40	2345	33.50	2425	37.80	2507	42.30	2590	46.80	2672	51.50	2825	60.70				
29200	5572	2406	35.00	2443	37.20	2480	39.40	2554	43.90	2630	48.60	2707	53.30	2786	58.30						
31000	5916	2543	41.20	2578	43.50	2613	45.80	2684	50.70	2756	55.60	2828	60.60								
32800	6259	2684	48.30	2718	50.80	2751	53.20	2816	58.20												
34600	6603	2826	56.30	2857	58.80																

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).



Wheel Diameter = 24.5”
Wheel Type = Airfoil
Tip Speed (FPM) = 6.41 x RPM
Max. BHP = 4.20 (RPM/1000)^3
Inlet Area = 7.28 Sq. Ft.
Outlet Area = 6.21 Sq. Ft.
Outlet Velocity (FPM) = CFM/6.21

Class I Max. RPM - 1631
Class II Max. RPM - 2128
Class III Max. RPM - 2681

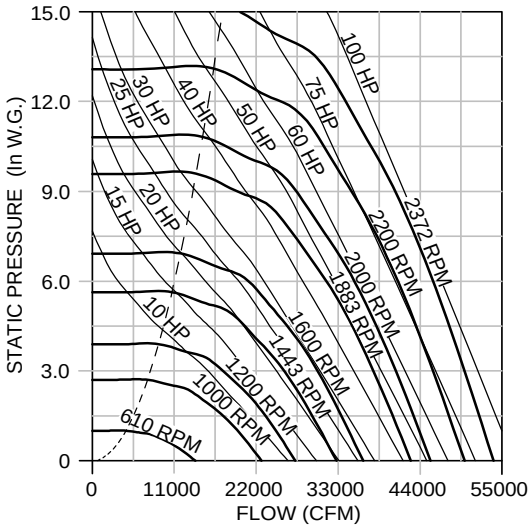
245 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4100	660	680	1.01																		
6200	998	714	1.37	846	2.12	966	2.98														
8300	1336	791	1.92	898	2.76	999	3.68	1191	5.79	1361	8.12										
10400	1674	879	2.73	978	3.65	1066	4.64	1229	6.90	1386	9.42	1533	12.20	1669	15.10						
12500	2012	983	3.79	1066	4.87	1149	5.96	1297	8.35	1432	11.00	1565	13.90	1694	17.10	1932	23.90				
14600	2351	1094	5.14	1167	6.38	1238	7.64	1379	10.20	1504	13.00	1620	16.10	1735	19.40	1959	26.50	2167	34.40	2360	42.60
16700	2689	1209	6.85	1277	8.23	1340	9.66	1464	12.50	1586	15.50	1696	18.70	1799	22.20	1999	29.60	2196	37.70	2382	46.40
18800	3027	1326	8.95	1390	10.50	1449	12.10	1559	15.30	1671	18.60	1778	21.90	1878	25.50	2060	33.20	2238	41.60	2414	50.60
20900	3365	1446	11.50	1505	13.20	1561	14.90	1664	18.50	1763	22.10	1863	25.70	1960	29.40	2137	37.40	2299	46.10	2460	55.40
23000	3703	1569	14.60	1623	16.40	1676	18.30	1773	22.10	1864	26.10	1954	30.00	2045	34.00	2219	42.30	2375	51.30	2522	60.90
25100	4041	1692	18.20	1743	20.20	1792	22.20	1885	26.30	1971	30.60	2053	34.90	2136	39.20	2302	48.00	2457	57.20	2598	67.10
27200	4380	1816	22.40	1864	24.50	1911	26.70	1999	31.10	2081	35.60	2159	40.30	2234	44.90	2388	54.40	2539	64.00	2680	74.20
29300	4718	1944	27.30	1987	29.50	2031	31.90	2114	36.60	2194	41.40	2268	46.30	2340	51.40	2481	61.50	2623	71.60		
31400	5056	2069	32.80	2112	35.30	2152	37.80	2232	42.80	2308	47.90	2380	53.10	2448	58.40	2580	69.20				
33500	5394	2198	39.20	2236	41.70	2275	44.40	2350	49.70	2423	55.10	2493	60.70	2559	66.20						
35600	5732	2327	46.30	2363	49.00	2400	51.90	2471	57.50	2540	63.20	2607	69.00	2672	74.90						
37700	6070	2454	54.20	2489	57.10	2524	60.10	2591	66.00	2658	72.10										
39800	6409	2582	63.00	2617	66.20	2650	69.30														

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).

Wheel Diameter = 27”
Wheel Type = Airfoil
Tip Speed (FPM) = 7.07 x RPM
Max. BHP = 7.15 (RPM/1000)^3
Inlet Area = 8.70 Sq. Ft.
Outlet Area = 7.54 Sq. Ft.
Outlet Velocity (FPM) = CFM/7.54

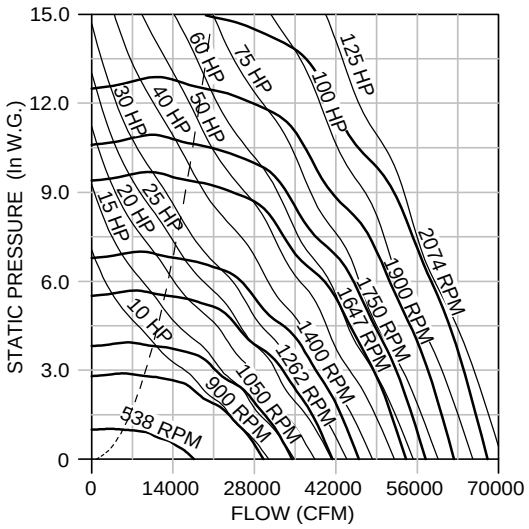
Class I Max. RPM - 1443
Class II Max. RPM - 1883
Class III Max. RPM - 2372



270 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4700	623	610	1.12																		
7400	981	637	1.58	764	2.45	869	3.38														
10100	1339	693	2.25	793	3.21	897	4.33	1076	6.74	1225	9.34										
12800	1697	768	3.19	860	4.32	941	5.50	1102	8.18	1255	11.20	1386	14.30	1505	17.60						
15500	2055	855	4.47	936	5.77	1013	7.13	1148	9.97	1281	13.20	1414	16.70	1535	20.30	1745	28.00	1933	36.20		
18200	2413	951	6.12	1021	7.60	1089	9.11	1219	12.30	1333	15.70	1444	19.30	1560	23.30	1776	31.80	1961	40.50	2129	49.90
20900	2771	1053	8.23	1114	9.870	1175	11.60	1294	15.10	1405	18.90	1504	22.60	1600	26.60	1800	35.70	1991	45.40	2160	55.40
23600	3129	1158	10.80	1214	12.70	1268	14.60	1374	18.40	1479	22.50	1577	26.70	1666	30.90	1837	40.00	2015	50.30	2188	61.20
26300	3488	1266	14.00	1317	16.10	1366	18.10	1462	22.30	1558	26.80	1651	31.30	1740	36.00	1899	45.50	2053	55.80	2212	67.10
29000	3846	1376	17.80	1422	20.00	1468	22.30	1556	26.90	1643	31.60	1729	36.50	1814	41.60	1972	51.90	2113	62.50	2252	73.80
31700	4204	1487	22.30	1530	24.80	1572	27.20	1654	32.20	1734	37.30	1813	42.50	1892	47.80	2045	58.90	2184	70.20	2313	81.90
34400	4562	1600	27.60	1639	30.20	1679	32.90	1755	38.30	1830	43.70	1903	49.30	1976	54.90	2120	66.70	2258	78.90		
37100	4920	1713	33.70	1751	36.60	1787	39.40	1858	45.10	1928	51.00	1997	56.90	2065	62.90	2200	75.30	2332	88.20		
39800	5278	1827	40.80	1861	43.70	1896	46.80	1964	53.00	2029	59.10	2094	65.40	2158	71.80	2284	84.80				
42500	5636	1943	48.80	1975	52.00	2008	55.20	2071	61.70	2133	68.30	2194	75.00	2254	81.70						
45200	5994	2057	57.80	2088	61.10	2118	64.50	2179	71.50	2238	78.50	2296	85.50	2352	92.50						
47900	6352	2172	67.80	2202	71.40	2232	75.10	2288	82.30	2344	89.70										
50600	6710	2289	79.20	2317	83.00	2345	86.80														

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).



Wheel Diameter = 30”
Wheel Type = Airfoil
Tip Speed (FPM) = 7.85 x RPM
Max. BHP = 13.8 (RPM/1000)^3
Inlet Area = 10.71 Sq. Ft.
Outlet Area = 9.31 Sq. Ft.
Outlet Velocity (FPM) = CFM/9.31

Class I Max. RPM - 1262
Class II Max. RPM - 1647
Class III Max. RPM - 2074

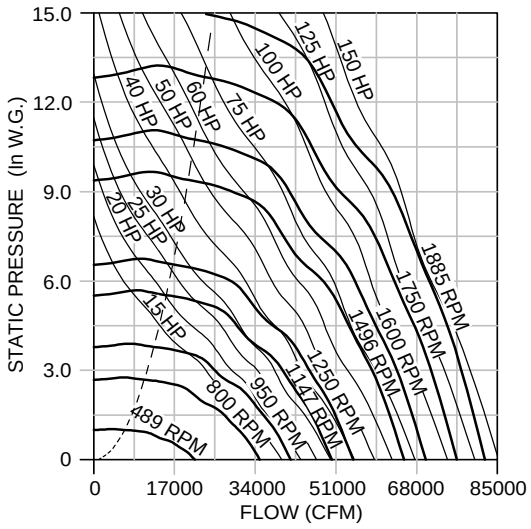
300 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5700	612	538	1.35																		
9200	988	556	1.92	668	3.04	764	4.21														
12700	1364	614	2.83	697	3.95	784	5.32	942	8.43	1079	11.70	1202	15.00								
16200	1740	670	3.89	764	5.49	832	6.90	965	10.10	1097	13.90	1216	18.00	1324	22.10	1521	30.60				
19700	2116	746	5.65	818	7.06	900	9.07	1016	12.50	1124	16.30	1237	20.70	1343	25.50	1534	35.50	1705	45.50	1862	55.80
23200	2491	831	7.91	891	9.54	952	11.20	1086	15.80	1183	19.90	1272	24.00	1367	28.80	1554	39.80	1721	51.40	1874	63.20
26700	2867	917	10.50	976	12.80	1027	14.60	1139	18.80	1253	24.30	1338	28.90	1415	33.50	1578	44.30	1742	56.80	1893	70.00
30200	3243	1009	13.70	1061	16.40	1111	18.90	1201	22.90	1306	28.20	1407	34.40	1485	39.80	1623	50.30	1767	62.50	1914	76.40
33700	3619	1106	17.90	1149	20.50	1197	23.60	1281	28.50	1363	33.10	1460	39.40	1551	46.30	1691	58.40	1813	70.10	1942	83.50
37200	3995	1204	22.80	1242	25.60	1283	28.70	1366	35.10	1439	40.00	1515	45.30	1603	52.30	1761	67.20	1881	80.10	1991	93.00
40700	4371	1305	28.90	1338	31.70	1373	34.80	1452	42.20	1523	48.30	1588	53.50	1659	59.50	1819	75.40	1952	91.10	2059	105.0
44200	4747	1407	36.00	1436	38.80	1468	42.10	1537	49.60	1608	57.30	1671	63.50	1731	69.10	1869	83.50	2014	102.0		
47700	5123	1510	44.40	1537	47.40	1565	50.60	1626	58.10	1693	66.80	1756	74.50	1813	80.90	1929	93.90	2065	112.0		
51200	5499	1612	53.80	1637	56.90	1663	60.30	1717	67.80	1779	76.90	1841	86.00	1898	93.90	2002	107.0				
54700	5875	1716	64.70	1740	68.10	1764	71.70	1813	79.20	1868	88.20	1927	98.20	1983	108.0						
58200	6251	1821	77.20	1843	80.70	1864	84.20	1910	92.00	1959	101.0	2013	111.0	2068	122.0						
61700	6627	1926	91.20	1945	94.60	1966	98.40	2008	106.0	2054	116.0										
65200	7003	2030	107.0	2047	110.0	2069	114.0														

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).

Wheel Diameter = 33”
Wheel Type = Airfoil
Tip Speed (FPM) = 8.64 x RPM
Max. BHP = 22.2 (RPM/1000)^3
Inlet Area = 12.98 Sq. Ft.
Outlet Area = 11.27 Sq. Ft.
Outlet Velocity (FPM) = CFM/11.27

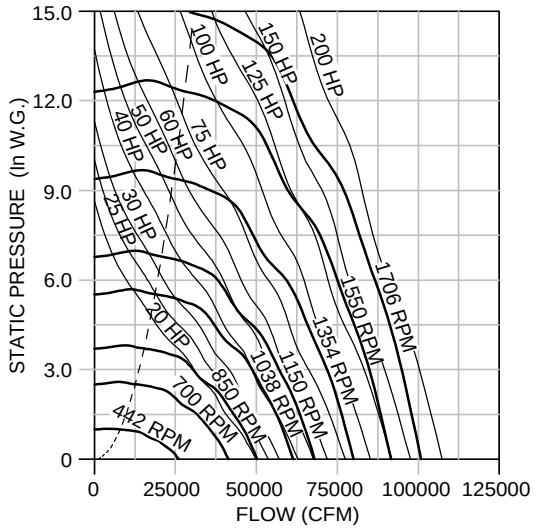
Class I Max. RPM - 1147
Class II Max. RPM - 1496
Class III Max. RPM - 1885



330 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6900	612	489	1.63																		
11100	984	505	2.31	607	3.67	694	5.07														
15300	1357	557	3.40	633	4.76	712	6.40	857	10.20	981	14.10	1093	18.10								
19500	1730	608	4.67	693	6.59	755	8.29	877	12.20	997	16.80	1105	21.70	1204	26.70	1382	36.80				
23700	2102	675	6.73	742	8.47	816	10.90	922	15.10	1021	19.60	1124	25.00	1220	30.70	1394	42.70	1550	54.90	1693	67.30
27900	2475	752	9.44	807	11.40	863	13.40	985	19.00	1073	23.90	1155	28.90	1242	34.70	1412	48.00	1564	61.90	1703	76.20
32100	2848	830	12.50	883	15.30	930	17.40	1033	22.60	1136	29.10	1213	34.70	1284	40.30	1433	53.30	1583	68.40	1720	84.30
36300	3220	912	16.30	960	19.60	1006	22.50	1088	27.30	1185	33.90	1276	41.30	1346	47.70	1472	60.30	1605	75.20	1739	92.00
40500	3593	999	21.20	1039	24.40	1083	28.20	1159	34.00	1236	39.70	1324	47.30	1407	55.60	1533	69.90	1645	84.20	1764	101.0
44700	3966	1088	27.20	1123	30.50	1160	34.20	1236	41.80	1302	47.70	1373	54.20	1454	62.80	1597	80.60	1705	96.00	1806	112.0
48900	4338	1179	34.30	1209	37.60	1242	41.50	1313	50.20	1378	57.60	1438	63.90	1503	71.10	1650	90.50	1769	109.0	1867	126.0
53100	4711	1271	42.80	1298	46.20	1327	50.10	1390	59.10	1455	68.40	1512	75.70	1567	82.50	1695	100.0	1826	122.0		
57300	5084	1363	52.60	1388	56.20	1414	60.10	1470	69.20	1532	79.70	1589	88.90	1640	96.30	1748	112.0	1873	134.0		
61500	5456	1455	63.70	1478	67.50	1502	71.60	1552	80.70	1609	91.70	1666	103.0	1717	112.0	1813	128.0				
65700	5829	1549	76.70	1571	80.80	1593	85.00	1638	94.10	1689	105.0	1742	117.0	1794	128.0						
69900	6202	1644	91.60	1664	95.70	1683	99.80	1726	109.0	1771	120.0	1820	132.0	1871	145.0						
74100	6574	1738	108.0	1756	112.0	1775	117.0	1814	126.0	1856	137.0										
78300	6947	1833	127.0	1848	130.0	1868	136.0														

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).



Wheel Diameter = 36.5”
Wheel Type = Airfoil
Tip Speed (FPM) = 9.56 x RPM
Max. BHP = 36.8 (RPM/1000)^3
Inlet Area = 15.96 Sq. Ft.
Outlet Area = 13.79 Sq. Ft.
Outlet Velocity (FPM) = CFM/13.79

Class I Max. RPM - 1038
Class II Max. RPM - 1354
Class III Max. RPM - 1706

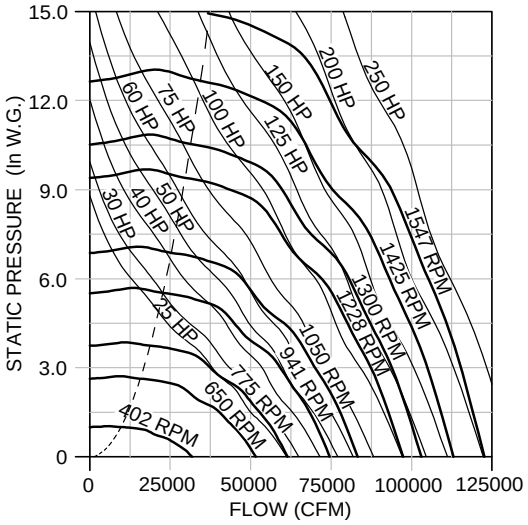
365 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8400	609	442	1.99																		
13700	993	457	2.84	549	4.51	628	6.25														
19000	1377	507	4.25	575	5.92	645	7.92	776	12.60	888	17.50	989	22.40								
24300	1762	554	5.87	632	8.30	688	10.40	795	15.10	904	20.90	1001	26.90	1090	33.10	1251	45.70				
29600	2146	619	8.62	677	10.70	743	13.60	841	19.00	927	24.40	1019	31.00	1106	38.10	1262	53.00	1403	68.20	1532	83.60
34900	2530	691	12.10	740	14.60	789	17.00	898	23.90	979	30.10	1051	36.20	1127	43.30	1280	59.60	1417	77.00	1542	94.60
40200	2915	764	16.10	811	19.60	853	22.40	942	28.50	1036	36.70	1108	43.90	1171	50.80	1301	66.50	1435	85.10	1559	105.0
45500	3299	842	21.20	883	25.10	924	28.90	997	35.00	1080	42.70	1164	52.10	1230	60.40	1342	76.10	1458	94.10	1577	115.0
50800	3683	923	27.60	957	31.50	996	36.20	1065	43.80	1130	50.50	1207	59.60	1284	70.20	1401	88.70	1500	106.0	1603	126.0
56100	4068	1007	35.50	1037	39.60	1069	44.20	1137	53.90	1196	61.50	1257	69.30	1326	79.20	1459	102.0	1558	122.0	1648	141.0
61400	4452	1091	44.90	1118	49.10	1146	53.70	1209	64.70	1267	74.30	1320	82.20	1376	90.80	1505	114.0	1617	138.0	1706	160.0
66700	4836	1177	56.10	1200	60.30	1226	65.20	1281	76.30	1339	88.20	1390	97.70	1439	106.0	1548	127.0	1667	154.0		
72000	5221	1264	69.30	1286	73.80	1308	78.50	1356	89.50	1411	103.0	1462	115.0	1509	125.0	1600	143.0				
77300	5605	1349	83.90	1370	88.80	1391	93.90	1435	105.0	1483	118.0	1534	133.0	1581	145.0	1665	165.0				
82600	5989	1438	101.0	1457	106.0	1476	112.0	1515	123.0	1558	136.0	1606	151.0	1652	166.0						
87900	6374	1526	121.0	1543	126.0	1560	131.0	1598	143.0	1636	156.0	1679	171.0								
93200	6758	1614	143.0	1628	148.0	1646	154.0	1680	166.0												

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).

Wheel Diameter = 40.25”
Wheel Type = Airfoil
Tip Speed (FPM) = 10.54 x RPM
Max. BHP = 59.6 (RPM/1000)^3
Inlet Area = 19.44 Sq. Ft.
Outlet Area = 16.77 Sq. Ft.
Outlet Velocity (FPM) = CFM/16.77

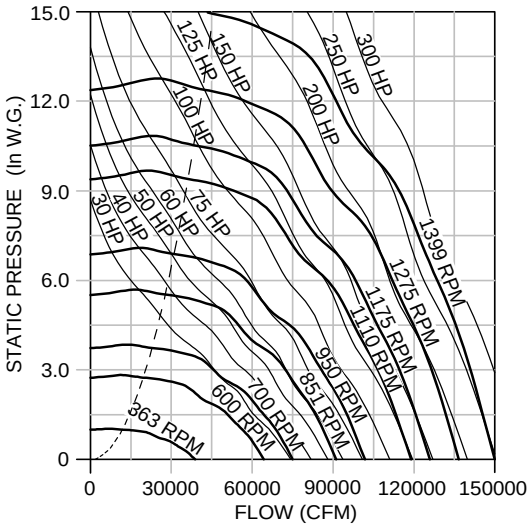
Class I Max. RPM - 941
Class II Max. RPM - 1228
Class III Max. RPM - 1547



402 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
11000	655	402	2.56																		
17300	1031	417	3.57	500	5.65	571	7.83														
23600	1407	464	5.33	524	7.36	587	9.82	705	15.60	806	21.60	897									
29900	1782	505	7.28	575	10.20	627	12.90	722	18.50	820	25.50	908	33.00	989	40.60	1135	56.10				
36200	2158	563	10.60	615	13.10	675	16.70	764	23.30	842	29.90	924	37.80	1003	46.50	1145	64.70	1273	83.40	1390	102.0
42500	2534	627	14.70	671	17.80	716	20.80	815	29.10	888	36.60	953	44.10	1022	52.70	1161	72.60	1285	93.70	1399	115.0
48800	2909	692	19.50	735	23.80	773	27.10	854	34.60	939	44.50	1004	53.20	1061	61.60	1179	80.70	1301	103.0	1413	127.0
55100	3285	761	25.50	798	30.20	836	34.90	902	42.20	978	51.70	1054	63.10	1113	73.00	1215	92.00	1321	114.0	1429	139.0
61400	3661	833	33.10	864	37.80	899	43.40	962	52.60	1022	60.80	1093	72.10	1162	84.80	1267	107.0	1357	128.0	1451	152.0
67700	4036	907	42.40	934	47.20	964	52.90	1026	64.60	1080	73.70	1136	83.20	1200	95.60	1319	123.0	1408	146.0	1490	170.0
74000	4412	982	53.50	1006	58.40	1032	64.10	1090	77.40	1143	88.80	1191	98.30	1243	109.0	1361	138.0	1461	166.0	1541	192.0
80300	4788	1058	66.50	1079	71.50	1102	77.30	1154	91.10	1206	105.0	1253	117.0	1297	127.0	1398	152.0	1506	185.0		
86600	5163	1134	81.60	1154	87.00	1175	92.90	1220	107.0	1270	122.0	1317	137.0	1359	148.0	1444	171.0	1544	203.0		
92900	5539	1210	98.80	1229	105.0	1248	111.0	1289	124.0	1334	141.0	1380	157.0	1422	172.0	1500	196.0				
99200	5915	1288	119.0	1306	125.0	1324	132.0	1360	145.0	1400	161.0	1444	179.0	1486	197.0						
105500	6290	1367	142.0	1382	148.0	1398	154.0	1433	169.0	1468	184.0	1508	203.0								
111800	6666	1445	167.0	1458	173.0	1474	180.0	1506	195.0	1539	211.0										
118100	7042	1522	195.0	1535	201.0																

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).



Wheel Diameter = 44.5”
Wheel Type = Airfoil
Tip Speed (FPM) = 11.65 x RPM
Max. BHP = 99.0 (RPM/1000)^3
Inlet Area = 23.73 Sq. Ft.
Outlet Area = 20.49 Sq. Ft.
Outlet Velocity (FPM) = CFM/20.49

Class I Max. RPM - 851
Class II Max. RPM - 1110
Class III Max. RPM - 1399

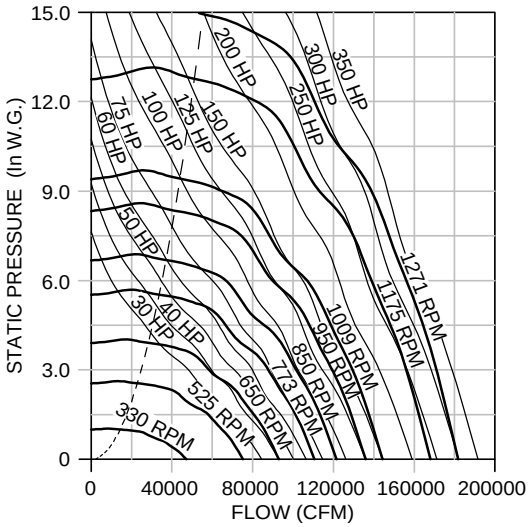
445 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
13000	634	363	3.05																		
20600	1005	376	4.29	451	6.77	516	9.41														
28200	1376	415	6.28	471	8.77	529	11.80	636	18.70	728	25.90	811	33.30								
35800	1747	452	8.58	516	12.20	562	15.30	651	22.30	740	30.70	820	39.70	893	48.90	1026	67.60				
43400	2118	503	12.40	552	15.60	607	20.00	686	27.70	758	35.80	834	45.60	906	56.20	1034	78.00	1150	100.0	1256	123.0
51000	2489	560	17.40	600	20.90	642	24.60	732	34.80	797	43.60	858	52.90	922	63.50	1048	87.60	1160	113.0	1264	139.0
58600	2859	617	22.90	657	28.00	691	31.90	767	41.30	844	53.20	901	63.40	953	73.50	1063	97.10	1174	125.0	1276	154.0
66200	3230	678	29.90	714	35.90	747	41.20	808	49.90	880	62.00	947	75.30	1000	87.20	1093	110.0	1191	137.0	1290	168.0
73800	3601	742	38.70	772	44.70	804	51.40	861	62.10	917	72.30	983	86.30	1044	101.0	1138	128.0	1221	154.0	1309	183.0
81400	3972	808	49.60	833	55.40	861	62.40	918	76.40	967	87.10	1019	98.80	1079	114.0	1185	147.0	1265	175.0	1340	203.0
89000	4343	875	62.60	897	68.50	921	75.40	975	91.70	1022	105.0	1067	116.0	1115	129.0	1224	165.0	1313	199.0	1385	229.0
96600	4714	943	77.90	963	84.10	984	91.10	1031	108.0	1079	124.0	1122	138.0	1162	150.0	1257	182.0	1355	222.0		
104200	5085	1011	95.70	1030	102.0	1049	110.0	1090	126.0	1136	145.0	1178	161.0	1216	175.0	1296	204.0	1389	243.0		
111800	5456	1079	116.0	1096	123.0	1114	130.0	1151	147.0	1193	167.0	1235	186.0	1273	203.0	1344	232.0				
119400	5827	1148	139.0	1164	147.0	1181	154.0	1215	171.0	1252	191.0	1292	213.0	1330	233.0	1398	265.0				
127000	6198	1218	166.0	1233	174.0	1247	181.0	1279	199.0	1312	218.0	1349	240.0	1387	264.0						
134600	6569	1288	196.0	1301	203.0	1315	212.0	1344	229.0	1375	249.0										
142200	6939	1357	229.0	1369	236.0	1384	246.0														

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).

Wheel Diameter = 49”
Wheel Type = Airfoil
Tip Speed (FPM) = 12.83 x RPM
Max. BHP = 160 (RPM/1000)^3
Inlet Area = 28.84 Sq. Ft.
Outlet Area = 24.85 Sq. Ft.
Outlet Velocity (FPM) = CFM/24.85

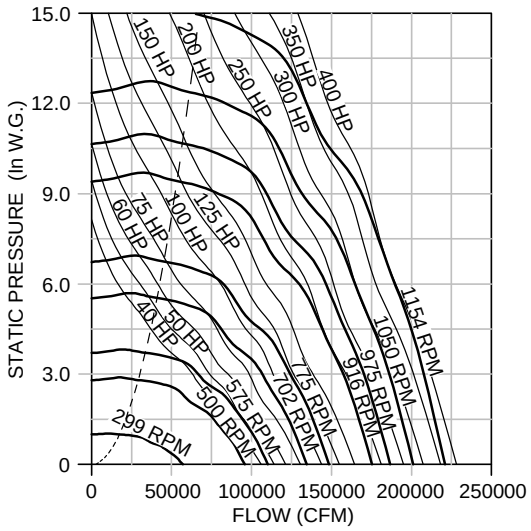
Class I Max. RPM - 773
Class II Max. RPM - 1009
Class III Max. RPM - 1271



490 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
16000	643	330	3.74																		
25300	1018	342	5.25	410	8.280	469	11.50														
34600	1392	379	7.76	429	10.80	481	14.40	578	22.80	662	31.80	737	40.80								
43900	1766	413	10.60	471	15.00	513	18.80	592	27.20	673	37.60	745	48.50	812	59.90	932	82.60				
53200	2140	460	15.40	503	19.10	553	24.50	625	34.00	690	43.90	758	55.70	823	68.50	940	95.40	1045	123.0	1141	151.0
62500	2515	512	21.50	549	26.00	586	30.40	668	42.80	727	53.70	781	64.80	838	77.50	952	107.0	1055	138.0	1148	170.0
71800	2889	565	28.40	601	34.80	632	39.60	699	50.70	769	65.30	822	78.10	869	90.40	967	119.0	1067	152.0	1160	188.0
81100	3263	621	37.10	653	44.40	683	51.00	738	61.80	802	76.10	863	92.50	912	107.0	996	135.0	1083	168.0	1173	205.0
90400	3637	680	48.20	706	55.20	735	63.50	787	77.00	837	89.20	895	106.0	952	125.0	1038	157.0	1112	188.0	1190	224.0
99700	4012	740	61.60	763	68.90	788	77.30	839	94.50	883	108.0	930	122.0	983	140.0	1080	180.0	1154	215.0	1221	250.0
109000	4386	802	77.90	822	85.30	843	93.50	891	113.0	935	130.0	975	144.0	1018	160.0	1115	202.0	1197	244.0	1263	282.0
118300	4760	864	97.00	882	105.0	901	113.0	943	133.0	987	154.0	1025	170.0	1062	186.0	1146	224.0	1235	273.0		
127600	5134	927	119.0	943	127.0	960	136.0	997	156.0	1039	179.0	1077	200.0	1112	217.0	1183	252.0	1265	298.0		
136900	5509	989	144.0	1004	153.0	1020	162.0	1054	182.0	1091	206.0	1129	231.0	1164	252.0	1228	287.0				
146200	5883	1052	173.0	1067	183.0	1082	192.0	1112	212.0	1145	236.0	1181	263.0	1216	288.0						
155500	6257	1117	207.0	1130	216.0	1143	226.0	1171	246.0	1201	270.0	1234	298.0	1268	326.0						
164800	6631	1181	244.0	1192	253.0	1205	263.0	1231	285.0	1259	309.0										
174100	7006	1244	285.0	1255	295.0	1268	306.0														

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).



Wheel Diameter = 54”
Wheel Type = Airfoil
Tip Speed (FPM) = 14.14 x RPM
Max. BHP = 261 (RPM/1000)^3
Inlet Area = 35.22 Sq. Ft.
Outlet Area = 30.18 Sq. Ft.
Outlet Velocity (FPM) = CFM/30.18

Class I Max. RPM - 702
Class II Max. RPM - 916
Class III Max. RPM - 1154

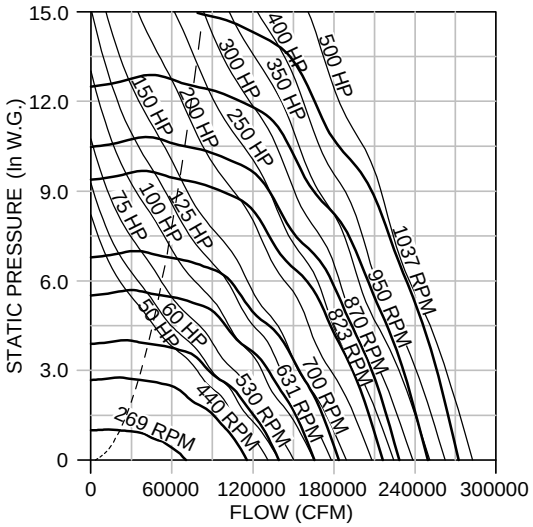
540 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
19000	629	299	4.45																		
30000	994	309	6.22	371	9.86	425	13.70														
41000	1358	341	9.14	387	12.70	436	17.20	524	27.30	600	37.80	668	48.50								
52000	1722	371	12.40	423	17.60	461	22.10	536	32.50	609	44.80	675	57.90	736	71.30	845	98.30				
63000	2087	411	17.80	452	22.40	498	28.90	562	39.90	623	52.00	687	66.60	746	81.90	852	114.0	947	146.0		
74000	2451	457	24.80	490	29.90	526	35.50	600	50.20	653	62.90	704	76.40	758	92.20	862	127.0	955	165.0	1041	203.0
85000	2816	503	32.70	536	40.00	564	45.50	629	59.60	691	76.60	738	91.30	782	106.0	875	141.0	967	182.0	1050	224.0
96000	3180	552	42.50	582	51.10	610	58.80	661	71.60	722	89.60	776	109.0	819	126.0	897	159.0	979	199.0	1062	244.0
107000	3545	604	55.00	629	63.70	656	73.40	703	88.60	751	104.0	806	125.0	856	146.0	932	184.0	1002	222.0	1076	266.0
118000	3909	657	70.20	678	78.70	702	89.10	749	109.0	790	124.0	834	142.0	885	165.0	970	211.0	1036	252.0	1100	294.0
129000	4274	711	88.40	729	96.90	750	107.0	795	131.0	834	149.0	871	166.0	913	186.0	1004	238.0	1075	286.0	1134	330.0
140000	4638	765	110.0	783	119.0	801	129.0	841	154.0	880	177.0	915	196.0	950	214.0	1031	263.0	1110	320.0		
151000	5003	821	135.0	836	144.0	852	154.0	888	179.0	926	207.0	961	230.0	993	250.0	1060	292.0	1139	352.0		
162000	5367	876	163.0	891	174.0	905	184.0	937	209.0	972	237.0	1007	266.0	1038	289.0	1098	331.0				
173000	5732	931	195.0	945	206.0	959	218.0	988	243.0	1019	271.0	1053	303.0	1084	331.0	1141	378.0				
184000	6096	988	233.0	1001	244.0	1013	255.0	1039	280.0	1068	310.0	1099	343.0	1130	375.0						
195000	6461	1045	275.0	1056	286.0	1067	297.0	1092	324.0	1118	353.0	1146	385.0								
206000	6825	1101	321.0	1111	332.0	1123	346.0	1145	371.0												

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).

Wheel Diameter = 60”
Wheel Type = Airfoil
Tip Speed (FPM) = 15.71 x RPM
Max. BHP = 441 (RPM/1000)^3
Inlet Area = 43.10 Sq. Ft.
Outlet Area = 37.26 Sq. Ft.
Outlet Velocity (FPM) = CFM/37.26

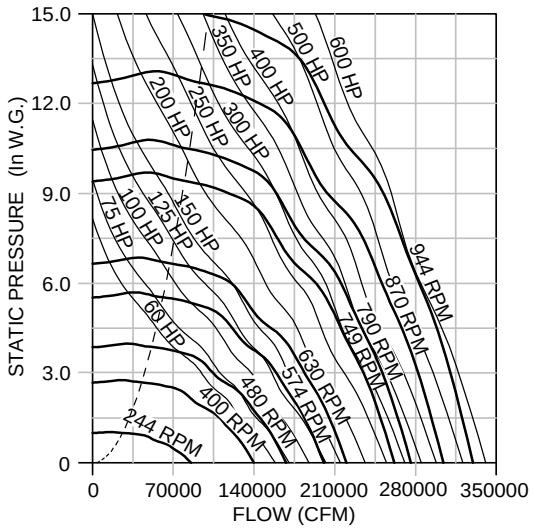
Class I Max. RPM - 631
Class II Max. RPM - 823
Class III Max. RPM - 1037



600 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
23000	617	269	5.43																		
37000	993	278	7.68	334	12.20	382	16.90														
51000	1368	307	11.30	349	15.90	392	21.30	471	33.80	540	47.00	601	60.20								
65000	1744	335	15.60	383	22.20	417	27.80	483	40.50	549	55.90	608	72.20	662	88.70	761	123.0				
79000	2120	373	22.60	410	28.50	450	36.30	509	50.50	562	65.20	619	83.20	672	102.0	767	142.0	853	183.0	931	224.0
93000	2495	416	31.80	446	38.30	477	45.10	544	63.60	592	79.70	637	96.60	684	116.0	777	159.0	861	206.0	937	253.0
107000	2871	459	42.00	489	51.60	514	58.60	570	75.60	627	97.40	669	116.0	708	134.0	789	177.0	871	227.0	946	280.0
121000	3247	505	55.00	531	65.70	556	75.70	601	91.80	653	113.0	704	138.0	743	160.0	812	202.0	884	251.0	957	306.0
135000	3623	554	71.80	575	82.20	599	94.60	641	114.0	682	133.0	730	158.0	776	186.0	846	234.0	907	281.0	971	334.0
149000	3998	603	91.80	622	103.0	642	115.0	684	141.0	720	161.0	758	182.0	802	210.0	881	269.0	941	321.0	996	373.0
163000	4374	653	116.0	670	127.0	687	139.0	726	169.0	762	194.0	795	215.0	830	238.0	910	302.0	976	365.0	1030	421.0
177000	4750	704	145.0	719	156.0	735	169.0	769	199.0	805	230.0	836	255.0	866	277.0	935	335.0	1007	407.0		
191000	5126	756	178.0	769	190.0	783	203.0	814	233.0	847	268.0	879	299.0	907	324.0	965	376.0	1033	447.0		
205000	5501	807	216.0	819	228.0	832	242.0	859	272.0	890	308.0	921	345.0	950	377.0	1002	430.0				
219000	5877	859	260.0	871	274.0	883	288.0	907	317.0	934	353.0	964	394.0	992	431.0						
233000	6253	911	310.0	922	323.0	933	338.0	956	369.0	980	404.0	1007	445.0	1035	488.0						
247000	6629	964	366.0	973	379.0	984	395.0	1005	427.0	1028	463.0										
261000	7004	1016	428.0	1024	441.0	1035	458.0														

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).



Wheel Diameter = 66”
Wheel Type = Airfoil
Tip Speed (FPM) = 17.28 x RPM
Max. BHP = 711 (RPM/1000)^3
Inlet Area = 52.30 Sq. Ft.
Outlet Area = 45.08 Sq. Ft.
Outlet Velocity (FPM) = CFM/45.08

Class I Max. RPM - 574
Class II Max. RPM - 749
Class III Max. RPM - 944

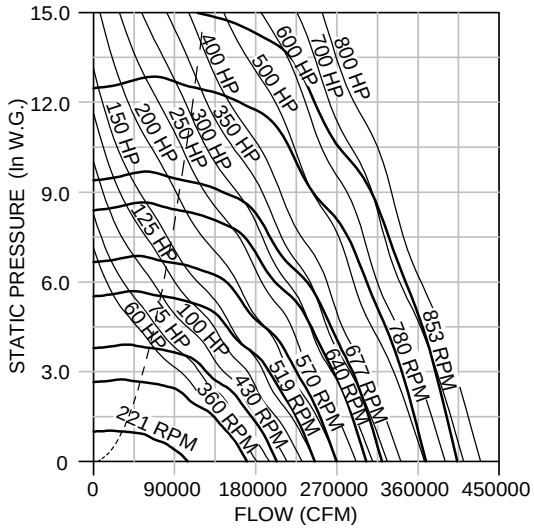
660 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
28000	621	244	6.55																		
44000	976	252	9.15	303	14.50	347	20.20														
60000	1330	276	13.20	315	18.60	355	25.20	428	40.20	490	55.50										
76000	1685	301	18.00	343	25.50	374	32.00	437	47.70	497	65.80	551	85.00	601	105.0						
92000	2040	331	25.20	367	32.50	404	42.00	456	57.90	508	76.40	560	97.50	609	121.0	696	167.0	774	215.0		
108000	2395	368	35.40	396	42.80	426	51.10	486	72.50	530	91.30	573	112.0	618	135.0	704	188.0	780	242.0	850	297.0
124000	2750	405	46.80	432	57.10	455	64.80	511	86.80	560	111.0	598	132.0	635	154.0	713	207.0	789	267.0	857	328.0
140000	3105	443	60.20	468	72.70	491	83.50	534	102.0	586	130.0	629	157.0	663	181.0	729	232.0	798	291.0	866	358.0
156000	3460	484	77.50	505	90.30	528	105.0	566	126.0	608	150.0	654	181.0	693	211.0	755	265.0	814	323.0	877	390.0
172000	3815	526	98.50	544	111.0	564	127.0	603	155.0	637	177.0	676	205.0	718	240.0	786	305.0	840	364.0	893	427.0
188000	4170	569	124.0	585	137.0	602	152.0	639	185.0	672	212.0	703	236.0	740	268.0	814	345.0	870	412.0	919	477.0
204000	4525	612	153.0	627	167.0	642	182.0	676	219.0	708	251.0	737	278.0	767	306.0	836	381.0	900	463.0		
220000	4880	656	188.0	669	202.0	683	218.0	713	254.0	745	294.0	773	326.0	800	354.0	859	421.0	924	509.0		
236000	5235	700	228.0	712	242.0	725	259.0	752	295.0	781	337.0	810	377.0	836	410.0	886	472.0				
252000	5590	744	272.0	755	288.0	767	305.0	792	342.0	819	386.0	847	432.0	872	470.0	919	536.0				
268000	5944	789	324.0	800	341.0	811	359.0	832	394.0	857	438.0	883	487.0	909	534.0						
284000	6299	834	382.0	844	399.0	853	415.0	875	456.0	896	497.0	920	546.0								
300000	6654	879	447.0	888	464.0	897	482.0	916	520.0	937	565.0										
316000	7009	924	518.0	932	535.0	942	556.0														

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).

Wheel Diameter = 73”
Wheel Type = Airfoil
Tip Speed (FPM) = 19.11 x RPM
Max. BHP = 1176 (RPM/1000)^3
Inlet Area = 63.90 Sq. Ft.
Outlet Area = 55.15 Sq. Ft.
Outlet Velocity (FPM) = CFM/55.15

Class I Max. RPM - 519
Class II Max. RPM - 677
Class III Max. RPM - 853



730 CA DWDI / CAF-DW

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP		10.000 SP		12.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
35000	634	221	8.17																		
55000	997	229	11.50	275	18.20	314	25.10														
75000	1359	252	16.70	286	23.30	322	31.40	387	49.80	444	69.30	494	88.70								
95000	1722	274	22.60	313	32.20	341	40.40	396	59.20	451	82.20	499	106.0	544	130.0	625	180.0				
115000	2085	304	32.50	334	40.80	368	52.70	416	73.10	461	95.20	508	122.0	551	149.0	630	208.0	700	266.0		
135000	2447	337	45.00	362	54.40	389	64.80	443	91.20	483	115.0	520	139.0	561	169.0	638	233.0	706	300.0	770	370.0
155000	2810	372	59.80	396	72.90	417	83.00	465	109.0	511	140.0	545	166.0	578	194.0	647	258.0	715	332.0	777	409.0
175000	3173	407	77.00	430	93.20	450	107.0	488	130.0	533	163.0	573	198.0	605	229.0	663	291.0	724	363.0	785	445.0
195000	3535	446	100.0	464	116.0	484	133.0	519	161.0	554	188.0	595	226.0	632	266.0	688	334.0	740	404.0	795	484.0
215000	3898	484	127.0	500	143.0	518	162.0	553	198.0	583	226.0	616	258.0	654	301.0	717	385.0	765	457.0	812	534.0
235000	4261	524	160.0	538	176.0	553	195.0	586	237.0	616	272.0	643	301.0	674	338.0	741	433.0	794	521.0	838	601.0
255000	4623	564	198.0	577	216.0	591	235.0	620	279.0	650	322.0	675	355.0	701	389.0	761	478.0	820	583.0		
275000	4986	605	244.0	617	262.0	629	281.0	655	325.0	683	375.0	709	417.0	733	453.0	783	531.0	841	639.0		
295000	5349	646	296.0	657	315.0	668	334.0	691	378.0	717	431.0	743	483.0	766	524.0	810	600.0				
315000	5711	687	355.0	697	374.0	707	394.0	728	439.0	752	493.0	777	551.0	800	602.0	842	686.0				
335000	6074	728	421.0	738	443.0	747	463.0	766	508.0	788	562.0	811	622.0	834	682.0						
355000	6436	770	498.0	778	517.0	787	539.0	805	586.0	824	638.0	846	701.0								
375000	6799	812	583.0	819	602.0	828	626.0	844	672.0												

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 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1400	1.00	67	69	67	64	61	58	55	53	67
1700	1.00	73	73	74	72	68	65	62	58	74
2000	1.00	78	78	79	78	73	70	68	64	79
	1.50	79	77	78	76	72	69	66	62	78
2300	1.00	82	82	84	83	77	74	72	69	84
	2.00	84	81	82	81	76	72	70	66	82
2600	1.00	86	86	88	87	81	77	76	73	88
	2.00	86	84	85	85	80	76	75	70	86
	3.00	90	84	86	83	78	75	72	69	85
2900	1.00	88	89	91	90	85	80	79	76	91
	2.00	88	88	89	89	84	79	78	74	90
	4.00	93	88	89	86	81	78	74	72	88
3200	1.50	90	92	93	93	88	83	81	78	94
	2.00	90	92	92	92	87	82	81	78	93
	5.00	95	92	91	89	84	80	77	74	90
3500	1.50	92	95	95	95	91	85	83	81	96
	3.00	91	94	94	93	90	85	82	79	95
	5.00	94	95	93	92	88	83	80	77	93
3800	1.50	93	98	97	97	94	88	85	83	99
	3.00	93	97	96	96	93	87	84	82	98
	6.00	96	98	95	94	90	85	82	79	96
4100	2.00	94	100	99	99	96	90	87	85	101
	4.00	94	99	98	97	95	89	86	84	99
	8.00	99	102	97	96	92	87	84	80	98
4400	3.00	95	101	101	101	98	92	88	87	102
	6.00	96	101	99	98	96	91	87	85	100
	10.00	101	105	99	99	93	88	85	81	100
4700	3.00	97	103	103	103	100	94	90	89	104
	6.00	96	103	101	100	99	93	89	87	103
	10.00	101	107	100	100	96	91	87	84	102
5000	4.00	97	105	104	104	102	95	91	90	106
	8.00	98	106	102	102	100	94	90	88	104
	12.00	102	110	102	102	98	92	89	85	104
5300	4.00	98	107	106	106	103	97	93	92	108
	8.00	98	106	104	103	101	96	92	91	106
	12.00	102	110	104	104	100	94	91	88	105

135 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1300	1.00	68	72	69	66	63	60	57	55	69
1600	1.00	75	76	77	74	70	68	64	60	76
	1.50	76	77	76	72	69	66	63	60	75
1900	1.00	81	82	83	80	75	73	70	67	82
	2.00	83	81	81	78	73	70	67	64	80
2200	1.00	86	86	87	86	80	77	75	72	87
	1.50	85	85	86	85	79	76	74	70	86
	2.00	86	84	85	84	79	75	73	69	85
2500	1.00	90	90	91	91	84	80	79	76	91
	2.00	89	88	89	89	83	79	78	73	89
	4.00	95	87	89	85	80	77	73	71	87
2800	1.00	93	93	94	94	87	83	82	79	94
	3.00	92	91	91	91	86	82	80	76	92
	5.00	97	91	92	88	83	80	76	74	90
3100	2.00	94	95	96	95	90	85	84	81	96
	4.00	94	94	94	93	89	84	82	78	94
	6.00	99	95	95	92	86	83	79	77	93
3400	2.00	95	98	99	98	93	88	86	84	99
	4.00	95	97	96	96	92	87	85	82	97
	6.00	98	98	97	95	90	86	83	80	96

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for $LW_i$and LW_iA 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.

135 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
3700	2.00	97	101	101	100	97	91	88	86	102
	4.00	97	100	99	99	95	90	87	85	100
	8.00	101	102	99	97	92	88	85	82	98
4000	4.00	98	103	102	101	98	92	89	87	103
	6.00	98	102	100	100	97	92	89	86	102
	10.00	103	106	101	99	94	89	86	83	101
4300	4.00	99	105	104	104	101	95	91	89	105
	6.00	99	105	103	102	100	94	91	89	104
	10.00	103	107	102	102	97	92	89	86	103
4600	3.00	101	108	106	106	104	97	93	92	108
	6.00	100	107	105	105	102	96	92	91	106
	12.00	105	110	104	104	99	94	90	87	105

150 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1200	1.00	83	80	77	75	71	65	59	52	76
1400	1.00	89	86	82	80	77	70	64	57	82
1600	1.00	93	91	87	85	83	74	69	61	87
	2.00	92	90	84	82	80	73	67	61	84
1800	1.00	95	95	91	88	86	79	72	65	91
	2.00	95	94	89	86	84	77	71	65	89
2000	1.00	97	99	95	92	89	82	76	68	94
	2.00	97	98	93	90	87	81	75	68	92
	3.00	96	97	92	88	85	80	74	68	91
2200	1.00	98	102	98	95	92	86	79	72	97
	2.00	98	101	97	93	90	85	78	71	96
	3.00	98	100	96	92	89	84	77	71	94
2400	1.00	100	104	101	97	94	89	81	75	100
	2.00	100	104	100	96	93	88	81	74	99
	4.00	100	103	98	94	90	86	80	74	96
2600	1.50	101	107	104	99	96	92	83	77	102
	2.00	101	107	103	99	95	91	83	77	101
	5.00	101	106	100	96	92	88	82	76	99
2800	1.50	103	109	106	102	98	95	86	80	104
	2.00	103	109	106	101	98	94	86	80	104
	6.00	102	108	103	98	94	91	84	78	101
3000	1.50	104	111	109	104	100	98	88	82	106
	2.00	104	111	108	103	99	97	88	82	106
	6.00	104	111	106	100	96	93	87	81	103
3200	2.00	105	113	111	105	101	99	90	84	108
	4.00	105	113	110	104	100	98	89	84	107
	8.00	104	112	108	101	98	95	88	82	105
3400	2.00	106	114	113	107	103	101	92	86	110
	4.00	106	114	112	106	102	100	92	86	109
	8.00	106	113	110	103	100	97	90	84	107

150 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
3600	4.00	107	115	114	108	104	101	94	87	111
	6.00	107	115	113	107	103	100	93	87	110
	10.00	106	114	112	105	101	98	92	86	108
3800	4.00	108	116	115	110	106	103	96	89	112
	10.00	108	115	114	107	103	99	94	88	110
4000	5.00	109	116	117	111	107	104	97	91	114
	12.00	108	116	115	108	104	100	95	89	111
4200	5.00	110	117	118	113	108	105	99	92	115
	12.00	109	117	117	111	106	102	97	91	113
4400	12.00	110	118	119	113	107	104	99	92	115

165 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1100	1.00	84	80	78	76	71	65	59	53	77
1300	1.00	90	87	84	82	78	71	64	57	83
	1.500	89	86	82	80	76	70	64	58	81
1500	1.00	95	93	89	86	84	75	69	62	88
	2.00	94	90	86	83	81	74	68	62	86
1700	1.00	98	97	93	90	88	80	74	66	92
	2.00	97	95	91	88	85	79	73	66	90
1900	1.00	99	101	97	94	91	84	77	70	96
	2.00	99	100	95	92	89	83	76	69	94
	3.00	99	99	93	90	87	82	76	69	93
2100	1.00	101	104	100	97	94	87	80	73	99
	2.00	101	103	99	95	92	86	80	73	98
	4.00	101	102	97	93	89	85	79	72	95
2300	1.00	103	107	103	99	96	91	83	76	102
	2.00	103	106	102	98	95	90	83	76	101
	5.00	102	105	100	95	92	88	81	75	98
2500	1.50	104	109	106	102	98	94	85	79	104
	2.00	104	109	105	101	98	93	85	79	103
	5.00	104	108	103	98	95	91	84	78	101
2700	1.50	106	111	109	104	100	97	88	82	106
	2.00	106	111	108	103	100	96	87	81	106
	6.00	105	111	105	100	96	93	86	80	103
2900	2.00	107	113	111	106	102	99	90	84	108
	4.00	107	113	110	104	100	97	89	83	107
	8.00	106	113	108	102	98	95	88	82	105
3100	2.00	108	115	113	107	104	102	92	86	110
	4.00	108	115	112	106	102	100	91	86	109
	8.00	108	115	110	103	100	97	90	85	107
3300	4.00	109	117	114	108	104	102	93	88	111
	6.00	109	117	113	107	103	101	93	87	110
	10.00	109	116	112	105	101	98	92	86	109
3500	4.00	110	118	116	110	106	104	96	90	113
	6.00	110	118	116	109	105	103	95	89	112
	10.00	110	117	114	107	103	100	94	88	111
3700	5.00	111	119	118	112	108	105	97	91	115
	6.00	111	119	117	112	107	104	97	91	114
	12.00	111	118	116	109	105	101	96	90	112
3900	5.00	112	120	120	114	109	107	99	93	116
	6.00	112	120	119	114	109	106	99	93	116
	12.00	112	119	118	111	107	103	98	92	114

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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.

180 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1000	1.00	80	79	72	70	70	66	59	54	74
1200	1.00	83	86	83	78	76	72	66	60	81
	1.50	84	85	81	75	74	71	65	59	79
1400	1.00	86	90	91	83	81	77	71	65	87
	1.50	86	90	90	81	79	76	70	64	86
	2.00	86	89	89	79	78	75	70	64	85
1600	1.00	89	94	96	87	85	81	75	69	92
	2.00	88	93	94	84	82	80	75	68	90
	3.00	90	94	94	82	80	79	74	67	89
1800	1.00	91	97	99	90	89	85	79	73	95
	2.00	91	97	97	88	87	84	79	72	93
	3.00	90	97	96	86	84	83	78	71	92
2000	1.00	93	100	101	93	93	89	83	76	98
	2.00	92	100	100	91	90	87	82	75	96
	4.00	92	100	97	88	86	85	81	74	94
2200	1.50	94	102	103	97	94	91	86	79	100
	2.00	94	102	102	96	93	90	85	78	100
	4.00	94	101	101	94	90	88	84	77	97
	5.00	94	102	100	93	88	87	84	77	97
2400	1.50	96	103	105	101	97	94	88	82	103
	2.00	96	103	105	101	96	93	88	81	103
	4.00	95	103	104	99	93	91	87	81	101
	6.00	96	103	103	97	90	89	86	80	99
2600	2.00	97	105	107	105	98	96	91	84	106
	4.00	97	104	106	104	96	94	90	83	104
	6.00	97	104	105	102	93	92	89	83	103
	8.00	98	106	106	102	92	90	88	82	102
2800	2.00	98	106	109	109	100	98	93	87	109
	4.00	98	106	108	108	98	96	92	86	107
	6.00	98	106	108	106	96	94	91	85	106
	8.00	98	106	107	105	94	93	90	85	105
3000	4.00	100	107	110	111	100	98	94	88	110
	6.00	99	107	110	110	99	97	94	88	109
	10.00	100	108	110	109	96	94	92	87	108
3200	5.00	101	108	112	112	101	100	96	90	111
	6.00	101	108	112	112	101	99	96	90	111
	12.00	102	109	112	110	97	95	94	89	110
3400	5.00	102	109	114	114	103	102	98	92	113
	6.00	102	109	114	113	103	101	98	92	113
	12.00	102	109	113	111	99	97	96	91	111

195 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1000	1.00	83	83	75	74	73	69	62	57	78
1200	1.00	87	89	86	81	79	75	68	63	84
	1.50	86	88	84	79	77	74	68	62	83
	2.00	88	88	84	77	76	73	67	61	82
1400	1.00	89	93	94	86	84	80	74	68	90
	1.50	89	93	93	84	82	79	73	67	89
	2.00	89	92	92	83	81	78	73	66	88
1600	1.00	92	97	99	90	88	84	78	72	95
	2.00	92	96	98	87	86	83	77	71	93
	3.00	91	96	96	85	83	81	77	70	91
1800	1.00	94	100	102	93	92	88	82	75	98
	2.00	94	100	100	91	90	87	81	75	96
	4.00	94	100	98	88	85	85	80	73	94
2000	1.50	96	103	103	95	94	91	85	78	100
	2.00	96	103	103	94	93	90	85	78	99
	4.00	95	103	101	92	89	88	84	77	97
	5.00	96	103	100	91	88	87	84	76	96

195 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
2200	1.50	97	105	106	100	97	94	88	81	103
	2.00	97	104	105	99	96	93	88	81	102
	4.00	97	104	104	97	93	91	87	80	101
	6.00	97	105	103	95	90	90	86	79	99
2400	2.00	99	106	108	104	99	96	91	84	106
	4.00	99	106	107	102	96	94	90	83	104
	6.00	98	106	106	100	94	92	89	83	102
	8.00	100	107	106	100	92	91	88	82	102
2600	2.00	100	107	110	108	101	98	93	87	108
	4.00	100	107	109	107	99	97	92	86	107
	6.00	100	107	108	105	97	95	92	85	106
	8.00	100	107	108	104	95	93	91	85	105
2800	4.00	101	109	111	111	101	99	95	89	110
	6.00	101	109	111	109	99	98	94	88	109
	8.00	101	108	110	108	98	96	93	88	108
	10.00	102	109	110	108	96	95	93	87	108
3000	5.00	103	110	113	114	102	101	97	91	113
	6.00	102	110	113	113	102	100	96	90	112
	8.00	102	110	112	112	100	98	96	90	111
	12.00	103	111	113	112	98	96	94	89	111
3200	5.00	104	111	115	115	104	103	99	93	114
	10.00	103	111	114	113	101	99	97	92	112
	12.00	103	111	114	112	100	98	97	92	112

210 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
900	1.00	83	83	75	74	72	68	61	55	77
1100	1.00	88	89	84	81	79	75	68	62	84
	1.50	88	88	82	78	77	74	67	61	82
1300	1.00	91	94	93	87	84	80	73	68	90
	1.50	91	93	92	85	83	79	73	67	89
	2.00	91	93	91	83	81	78	72	66	88
1500	1.00	93	98	101	91	89	84	78	72	96
	2.00	93	97	99	88	86	83	77	71	94
	3.00	93	97	97	86	84	82	77	70	92
1700	1.00	96	101	103	94	93	88	82	76	99
	2.00	95	101	102	92	91	87	82	75	97
	3.00	95	101	101	91	89	86	81	75	96
	4.00	95	100	100	89	87	85	81	74	95
1900	1.50	97	104	105	96	95	92	86	79	101
	2.00	97	104	104	96	94	91	86	79	101
	3.00	97	104	103	94	93	90	85	78	99
	4.00	97	104	102	93	91	89	85	78	98
	5.00	97	104	102	92	89	88	84	77	97
2100	1.50	99	106	107	100	98	95	89	82	104
	2.00	99	106	107	99	98	94	89	82	104
	4.00	99	106	105	97	95	93	88	81	102
	6.00	99	106	104	95	92	91	87	80	100
2300	2.00	101	108	109	104	100	97	92	85	107
	4.00	101	108	108	103	98	95	91	84	105
	6.00	101	108	107	101	95	94	90	84	104
	8.00	101	108	107	100	93	93	90	83	103
2500	4.00	102	109	111	107	100	98	94	87	108
	6.00	102	109	110	106	99	97	93	87	107
	8.00	102	109	109	105	97	95	92	86	106
	10.00	103	110	110	104	95	94	92	86	106

210 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
2700	5.00	103	111	113	111	102	100	96	89	111
	6.00	103	111	112	110	101	99	95	89	110
	8.00	103	110	112	109	100	98	95	89	109
	10.00	103	110	111	108	98	97	94	88	109
	12.00	105	112	112	109	97	96	94	88	109
2900	5.00	105	112	115	115	104	102	98	92	114
	6.00	105	112	114	114	104	102	98	92	113
	8.00	105	112	114	113	102	100	97	91	113
	10.00	105	112	114	112	101	99	97	91	112
	12.00	105	112	114	112	100	98	96	91	111

225 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
900	1.00	85	86	78	77	75	70	63	58	80
	1.50	87	86	76	74	73	69	63	57	78
1100	1.00	90	92	87	84	81	77	70	65	87
	1.50	90	91	85	82	80	76	69	64	85
	2.00	91	90	84	80	79	76	69	63	84
1300	1.00	93	97	96	89	87	82	76	70	93
	2.00	93	96	94	86	84	81	75	69	90
	3.00	94	95	93	84	82	80	74	68	89
1500	1.00	96	101	103	93	91	87	80	74	98
	2.00	96	100	102	91	89	86	80	74	96
	3.00	96	99	100	89	87	85	79	73	95
	4.00	97	100	100	87	85	84	79	72	94
1700	1.50	98	104	105	96	94	90	84	78	101
	2.00	98	104	104	95	93	90	84	77	100
	3.00	98	103	103	93	91	89	84	77	99
	4.00	98	103	102	92	90	88	83	76	98
	5.00	99	103	102	91	88	87	83	76	97
1900	1.50	100	107	107	99	98	94	88	81	104
	2.00	100	107	107	98	97	93	88	81	103
	3.00	100	106	106	97	95	93	87	80	102
	4.00	100	106	105	96	94	92	87	80	101
	6.00	100	107	104	94	91	90	86	79	100
2100	2.00	102	109	109	102	100	97	91	84	106
	4.00	102	109	108	100	97	95	90	83	104
	6.00	101	109	106	98	95	94	90	83	103
	8.00	103	110	107	97	93	93	89	82	102
2300	4.00	103	110	111	105	100	98	93	87	108
	6.00	103	110	110	104	98	97	93	86	106
	8.00	103	110	109	102	96	95	92	85	105
	10.00	105	112	110	102	95	94	92	85	105
2500	5.00	105	112	113	109	102	100	96	89	110
	6.00	105	112	112	108	101	99	95	89	110
	8.00	104	112	112	107	100	98	95	88	109
	10.00	105	112	111	106	98	97	94	88	108
	12.00	106	113	112	107	97	96	94	88	108
2700	5.00	106	113	115	113	105	102	98	92	113
	6.00	106	113	115	113	104	102	98	92	113
	8.00	106	113	114	112	103	101	97	91	112
	10.00	106	113	114	111	101	99	97	91	111
	12.00	106	113	114	110	100	98	96	90	111

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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.

245 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
700	1.00	78	78	70	68	67	65	61	55	72
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
	1.50	91	91	87	81	80	78	75	70	86
	2.00	91	90	85	80	79	77	74	69	85
1300	1.00	93	97	97	88	86	84	80	75	93
	1.50	93	97	95	87	85	83	80	75	92
	2.00	93	96	94	86	84	83	79	75	91
	3.00	94	94	92	84	82	81	78	74	89
1500	1.50	96	101	103	92	89	88	84	80	98
	2.00	96	100	102	91	88	87	84	79	97
	3.00	96	100	100	90	87	86	83	79	95
	4.00	96	99	98	88	85	84	82	78	94
1700	2.00	98	104	105	96	92	91	87	83	100
	3.00	98	103	104	94	90	90	87	83	99
	4.00	98	103	102	93	89	89	86	82	98
	5.00	98	103	101	92	88	88	86	82	97
	6.00	100	104	100	92	88	87	85	81	97
1900	2.00	100	106	107	99	95	94	91	86	103
	3.00	100	106	106	98	94	93	90	86	102
	4.00	100	106	105	97	93	92	90	86	101
	5.00	100	107	104	96	92	91	89	85	101
	6.00	100	107	103	95	91	90	89	85	100
2100	3.00	102	109	109	102	97	96	93	89	105
	4.00	102	109	108	102	96	95	93	89	105
	5.00	102	109	107	101	95	95	92	89	104
	6.00	102	109	106	100	94	94	92	88	103
	8.00	102	109	105	98	93	92	91	88	102
2300	4.00	103	110	111	106	99	98	95	92	108
	5.00	103	110	110	106	98	97	95	91	107
	6.00	103	110	110	105	98	97	95	91	107
	8.00	103	110	109	104	96	95	94	91	106
	10.00	104	111	107	102	95	94	93	90	105
2500	5.00	105	112	113	110	101	100	98	94	111
	6.00	105	112	113	109	101	99	97	94	110
	8.00	105	112	112	108	100	98	96	93	109
	10.00	105	112	111	107	98	97	96	93	108
	12.00	105	112	110	106	97	96	95	92	107

270 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
700	1.00	92	84	80	78	71	67	61	56	79
800	1.00	93	89	86	81	76	72	66	60	83
	1.50	94	88	85	81	75	70	65	60	83
900	1.00	95	95	90	85	81	76	71	64	87
	2.00	96	94	89	84	79	73	69	63	86
1000	1.00	96	99	94	87	84	79	75	67	91
	2.00	98	99	92	87	83	77	72	66	90
1100	1.00	98	103	98	90	87	81	78	70	94
	2.00	99	103	96	89	86	80	76	69	94
	3.00	100	104	96	89	86	78	75	69	93
1200	1.00	99	106	101	92	90	83	81	73	97
	2.00	100	107	100	92	89	83	80	72	97
	3.00	101	108	98	91	89	81	78	71	96
1300	1.50	101	107	102	95	92	86	83	75	99
	2.00	101	108	102	95	91	86	82	75	99
	4.00	102	109	100	94	91	83	80	74	98

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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.

270 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1400	1.50	102	109	104	97	94	88	85	78	101
	2.00	102	109	103	97	94	88	85	78	101
	5.00	104	110	101	96	92	86	82	76	100
1500	2.00	103	110	105	100	95	90	86	80	102
	4.00	104	111	103	99	95	89	85	79	102
	5.00	105	112	102	98	94	88	84	78	101
1600	2.00	104	111	107	102	97	92	88	83	104
	4.00	105	112	106	101	96	92	87	81	104
	6.00	106	113	105	101	96	90	85	80	103
1700	2.00	105	112	110	104	99	94	90	85	106
	4.00	106	113	109	104	98	94	89	84	106
	6.00	107	114	108	102	98	93	87	82	105
1800	3.00	106	113	112	106	100	96	91	86	108
	4.00	107	114	112	106	100	96	91	86	108
	8.00	108	115	111	105	99	94	88	84	107
1900	3.00	107	114	114	108	101	98	92	88	110
	4.00	108	114	114	108	101	97	92	88	110
	8.00	109	116	114	106	100	96	90	86	109
2000	4.00	108	115	116	110	102	99	94	90	112
	10.00	110	117	116	108	101	98	91	87	111
2100	4.00	109	116	118	112	104	101	95	91	113
	10.00	111	117	118	110	103	100	93	89	113
2200	5.00	110	117	120	113	105	102	96	93	115
	12.00	112	118	121	111	104	101	93	90	115

300 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
550	1.00	89	82	76	73	66	63	57	53	75
650	1.00	94	86	81	79	72	69	62	57	80
750	1.00	96	90	87	83	78	74	68	62	85
	1.50	97	89	86	83	77	72	66	61	84
850	1.00	98	96	92	86	82	78	72	65	89
	1.50	98	95	91	86	81	76	71	65	88
	2.00	99	95	90	86	81	75	70	65	88
950	1.00	99	101	96	89	86	80	76	69	93
	1.50	100	101	95	89	85	80	76	69	92
	2.00	100	100	94	89	85	79	75	68	92
1050	1.00	101	104	99	92	89	83	80	72	96
	2.00	102	105	98	92	88	83	79	71	96
	3.00	103	105	97	91	88	81	77	71	95
1150	1.50	102	108	102	94	92	85	83	75	99
	2.00	103	109	102	94	91	85	82	74	99
	4.00	104	110	100	93	90	83	80	73	98
1250	1.50	104	110	105	97	94	88	85	77	101
	2.00	104	111	105	97	94	88	85	77	101
	5.00	106	112	103	96	93	85	82	76	101
1350	2.00	105	112	106	99	96	90	87	80	103
	4.00	107	113	104	99	95	89	85	79	103
	5.00	107	113	104	98	95	88	84	78	102
1450	2.00	106	113	107	102	98	92	89	82	105
	4.00	107	114	106	101	97	92	88	81	104
	6.00	108	115	105	100	97	90	86	80	104
1550	3.00	108	114	109	104	99	94	90	84	107
	4.00	108	115	109	104	99	94	90	84	106
	6.00	109	116	107	103	99	93	88	83	106
1650	3.00	109	115	112	106	101	96	92	87	109
	4.00	109	116	111	106	101	96	92	86	108
	8.00	110	117	110	105	100	95	89	84	108

300 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1750	4.00	110	116	114	108	102	98	93	88	110
	6.00	111	117	113	108	102	98	93	87	110
	10.00	111	118	113	107	101	96	91	86	110
1850	4.00	111	117	116	110	104	100	95	90	112
	6.00	111	118	116	110	104	100	95	90	112
	10.00	112	119	116	109	103	98	92	88	112
1950	5.00	112	118	118	112	105	102	96	92	114
	6.00	112	119	118	112	105	101	96	92	114
	12.00	113	120	118	111	104	100	94	90	114

330 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
550	1.00	92	85	79	77	70	66	60	56	78
650	1.00	97	91	85	82	76	73	65	60	84
	1.50	98	90	84	82	74	71	65	60	83
750	1.00	99	94	90	86	81	77	71	65	88
	1.50	100	93	89	86	80	76	70	64	87
	2.00	100	92	89	85	79	75	69	64	87
850	1.00	101	99	95	90	85	81	75	69	92
	1.50	101	99	94	89	85	80	75	68	92
	2.00	102	98	93	89	84	79	74	68	91
950	1.00	102	104	99	92	89	83	79	72	96
	2.00	103	104	98	92	88	83	78	71	95
	3.00	104	103	97	91	87	81	77	71	94
1050	1.50	104	108	102	95	92	86	82	75	99
	2.00	105	108	102	95	91	86	82	74	99
	4.00	106	108	100	94	90	83	80	73	98
1150	1.50	106	111	106	97	95	88	86	78	102
	2.00	106	112	105	97	94	88	85	77	102
	4.00	108	113	103	96	94	86	83	76	101
	5.00	108	113	104	96	93	86	83	76	101
1250	2.00	107	114	108	100	97	91	88	80	104
	4.00	109	115	106	99	96	90	86	79	104
	6.00	109	115	106	98	96	88	85	78	104
1350	2.00	108	115	109	102	99	93	90	83	106
	4.00	110	116	108	102	98	93	89	82	106
	6.00	110	117	107	101	98	91	87	81	105
1450	3.00	110	116	110	105	101	95	92	85	108
	4.00	111	117	110	105	100	95	91	85	108
	8.00	112	118	108	104	99	93	89	83	107
1550	3.00	111	117	112	107	102	97	93	87	110
	4.00	111	118	112	107	102	97	93	87	110
	8.00	113	119	110	106	101	96	91	85	109
1650	4.00	112	119	115	109	104	99	95	89	112
	6.00	113	119	114	109	103	99	94	89	111
	10.00	114	120	113	108	103	97	92	87	111
1750	5.00	114	120	117	111	105	101	96	91	113
	6.00	114	120	117	111	105	101	96	91	113
	12.00	115	121	116	110	104	99	94	89	113
1850	5.00	114	121	119	113	107	103	98	93	115
	8.00	115	121	119	113	106	102	97	92	115
	12.00	116	122	119	112	106	101	95	91	115

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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.

365 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
500	1.00	83	83	80	76	71	66	62	53	78
600	1.00	91	90	85	80	77	69	73	56	83
	1.50	89	88	85	80	77	70	68	60	83
700	1.00	94	94	90	85	82	76	73	65	88
	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
	1.50	96	96	94	89	85	80	77	69	91
	2.00	95	96	94	89	85	79	77	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
	3.00	97	99	97	92	88	83	78	74	94
1000	1.00	101	105	103	97	92	89	82	76	100
	2.00	100	104	101	96	91	87	81	77	98
	4.00	98	102	99	95	91	86	81	77	97
1100	1.00	103	108	107	100	95	92	85	79	103
	2.00	102	107	105	99	94	91	84	79	101
	4.00	101	106	103	98	93	89	83	82	100
	5.00	100	105	102	98	93	89	83	80	100
1200	1.50	104	110	109	102	97	94	88	81	105
	2.00	104	110	108	102	96	94	87	81	104
	4.00	103	109	107	100	95	92	84	88	103
	6.00	101	107	104	101	95	92	85	83	102
1300	1.50	106	112	111	105	99	97	90	84	107
	2.00	105	111	110	104	99	96	90	83	107
	4.00	104	110	108	103	98	95	88	87	105
	6.00	103	109	107	103	98	94	88	87	105
1400	2.00	107	113	112	107	101	98	92	86	109
	4.00	106	112	110	106	100	97	91	88	107
	6.00	105	111	109	105	100	96	90	90	107
	8.00	104	110	107	105	100	96	90	87	106
1500	2.00	108	114	114	110	103	100	95	88	111
	4.00	107	113	111	108	102	99	94	89	109
	8.00	106	112	109	107	102	98	92	90	108
1600	4.00	108	115	113	110	104	101	96	90	112
	6.00	108	114	113	110	104	100	95	92	111
	10.00	107	113	111	109	104	100	94	90	110
1700	5.00	109	115	115	112	106	102	98	92	113
	6.00	109	115	115	112	106	102	97	93	113
	12.00	107	113	112	110	105	101	96	92	112

402 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		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	95	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
	3.00	95	99	94	89	87	82	77	72	93
	4.00	95	97	92	88	85	80	75	71	91

402 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
950	1.50	100	105	102	96	93	90	85	80	100
	2.00	99	104	101	95	93	89	84	79	99
	4.00	96	101	98	92	89	85	79	74	95
	5.00	97	100	96	91	88	83	78	74	94
1050	2.00	101	107	105	98	96	93	87	82	102
	4.00	99	104	103	95	93	90	84	79	99
	6.00	99	103	100	93	91	87	81	76	97
1150	2.00	103	109	109	101	98	96	91	85	105
	4.00	101	107	107	99	96	93	88	82	103
	6.00	99	105	105	96	94	91	85	80	101
1250	3.00	104	110	112	102	100	98	93	87	107
	4.00	103	109	111	101	99	97	91	85	106
	6.00	102	107	109	99	97	94	89	83	104
	8.00	100	106	107	98	96	92	86	81	102
1350	4.00	105	111	114	104	101	99	95	88	109
	6.00	104	110	112	102	100	98	92	86	107
	8.00	102	108	111	100	98	96	90	84	106
	10.00	103	109	108	99	98	94	88	83	104
1450	5.00	106	112	115	106	103	101	96	90	110
	6.00	106	111	114	105	102	100	95	89	110
	8.00	104	110	113	104	101	99	93	87	108
	10.00	103	109	111	103	100	97	91	86	107
	12.00	105	111	109	102	99	96	90	85	106
1550	6.00	107	113	116	108	104	102	98	92	112
	8.00	106	112	115	107	103	101	96	90	111
	10.00	105	111	113	106	102	100	95	89	109
	12.00	104	110	112	105	101	98	93	87	108

445 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
450	1.00	86	84	79	77	72	66	62	59	78
550	1.00	92	93	86	84	81	75	70	67	86
	1.50	90	91	84	82	78	73	67	64	84
	2.00	89	89	82	80	76	70	65	62	82
650	1.00	96	100	91	89	87	82	76	73	92
	1.50	95	99	90	88	85	80	74	71	90
	2.00	94	97	88	86	83	78	72	69	89
750	1.00	100	104	97	93	91	87	81	78	97
	2.00	98	102	94	91	89	84	78	75	94
	3.00	96	100	92	89	86	81	75	71	92
850	1.50	101	106	101	96	94	90	84	81	100
	2.00	101	105	100	95	93	89	83	79	99
	3.00	99	104	98	94	91	87	81	77	97
	4.00	98	102	97	92	89	85	79	74	95
	5.00	99	100	95	91	88	83	78	74	94
950	2.00	103	108	105	98	96	93	87	83	102
	3.00	102	107	103	97	95	91	86	81	101
	4.00	101	106	102	96	94	90	84	79	100
	5.00	100	104	101	95	92	88	82	77	98
	6.00	100	103	99	94	91	87	81	77	97
1050	2.00	105	111	109	101	99	97	91	86	106
	3.00	104	110	108	100	98	95	90	85	105
	4.00	103	108	107	99	97	94	88	83	103
	5.00	102	107	106	98	96	92	87	82	102
	6.00	102	106	104	97	95	91	85	80	101

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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.

445 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1150	3.00	107	112	112	103	101	98	93	88	108
	4.00	106	111	111	102	100	97	92	87	107
	5.00	105	110	110	101	99	96	91	85	106
	6.00	104	109	109	101	98	95	90	84	105
	8.00	102	108	107	99	97	93	87	82	103
1250	4.00	108	113	114	105	103	100	95	89	110
	5.00	107	112	114	104	102	100	94	88	109
	6.00	106	112	113	103	101	99	93	87	108
	8.00	105	110	111	102	100	97	91	85	107
	10.00	104	110	109	101	99	95	89	84	105
1350	5.00	109	114	117	107	104	102	97	91	112
	6.00	108	114	116	106	104	102	97	90	111
	8.00	107	113	115	105	103	100	95	89	110
	10.00	106	111	114	103	101	99	93	87	109
	12.00	106	112	112	102	101	97	92	86	107

490 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		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	81	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
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	87	82	76	73	93
	3.00	96	99	90	88	85	79	73	69	90
750	1.50	103	107	99	95	93	89	83	80	99
	2.00	102	106	98	95	93	88	82	79	98
	3.00	100	104	96	93	91	86	80	76	96
	4.00	99	102	95	92	89	83	78	73	94
850	1.50	105	110	104	99	97	94	88	84	103
	2.000	105	109	104	99	96	93	87	83	102
	3.00	103	108	102	97	95	91	85	81	101
	4.00	102	106	101	96	94	89	83	79	99
	5.00	101	105	99	95	92	87	82	77	98
	6.00	103	104	98	94	91	86	81	77	97
950	2.00	107	112	108	102	100	97	91	87	106
	3.00	106	111	107	101	99	95	89	85	105
	4.00	105	110	106	100	97	94	88	84	104
	5.00	104	109	105	99	96	92	87	82	102
	6.00	103	107	104	98	95	91	85	80	101
1050	3.00	108	113	111	104	102	99	93	88	108
	4.00	108	112	111	103	101	98	92	87	107
	5.00	107	111	110	102	100	97	91	86	106
	6.00	106	111	109	101	99	95	90	85	105
	8.00	104	109	107	100	97	93	87	82	103
1150	4.00	110	115	114	106	104	101	96	90	110
	5.00	109	114	114	105	103	100	95	89	110
	6.00	108	113	113	104	102	99	94	88	109
	8.00	107	112	111	103	101	97	92	86	107
	10.00	106	111	110	102	99	96	90	84	106
1250	5.00	111	116	117	108	105	103	98	92	113
	6.00	110	116	117	107	105	102	97	91	112
	8.00	109	114	115	106	104	101	96	90	111
	10.00	108	113	114	105	103	100	94	88	110
	12.00	107	112	113	104	101	98	92	87	108

540 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
350	1.00	87	80	78	75	70	64	60	56	76
400	1.00	92	86	83	80	76	70	66	63	82
	1.50	89	84	81	78	72	67	62	58	79
450	1.00	95	92	87	84	81	75	71	68	86
	2.00	91	88	83	81	76	70	66	62	82
500	1.00	98	96	90	88	85	79	74	72	90
	2.00	95	93	87	85	80	75	70	66	86
550	1.00	100	101	93	91	88	83	77	76	93
	2.00	98	98	90	88	85	79	74	71	90
	3.00	96	95	88	86	82	76	71	68	88
600	1.00	102	104	96	93	91	86	80	78	96
	2.00	100	102	93	91	88	83	77	74	94
	3.00	98	99	91	89	86	80	74	70	91
650	1.50	103	106	97	95	93	88	81	79	98
	2.00	102	105	96	94	91	86	80	78	97
	4.00	100	101	92	91	87	81	76	72	93
700	1.50	105	109	100	97	95	90	84	82	100
	2.00	104	108	99	96	94	89	83	80	99
	5.00	103	102	94	92	89	83	78	75	95
750	1.50	106	110	103	99	97	93	86	84	102
	2.00	106	110	102	98	96	92	86	83	102
	5.00	102	105	97	94	91	86	80	76	97
800	2.00	107	111	105	100	98	94	88	85	104
	4.00	105	109	102	98	95	91	85	81	101
	6.00	103	106	99	96	93	88	82	77	98
850	2.00	108	113	107	102	100	96	90	87	106
	4.00	106	110	105	100	97	93	87	83	103
	6.00	104	108	102	98	95	90	85	80	101
900	2.00	110	114	109	104	102	98	92	89	108
	8.00	106	108	103	99	96	91	85	81	102
950	3.00	110	114	111	104	102	99	93	89	108
	8.00	106	110	106	100	98	93	87	82	104
1000	4.00	110	115	112	105	103	100	94	89	109
	10.00	109	111	107	101	98	94	89	84	104
1050	4.00	111	116	114	107	104	101	96	91	111
	10.00	108	112	110	102	100	96	90	85	106
1100	5.00	112	117	115	107	105	102	97	92	112
	12.00	110	113	110	103	101	97	91	87	107
1150	6.00	112	117	117	108	106	103	98	92	113
	12.00	109	114	113	105	102	99	93	87	109

600 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
300	1.00	85	78	77	73	67	62	58	53	74
350	1.00	92	84	82	80	75	69	65	62	81
	1.50	89	82	81	77	71	66	62	59	78
400	1.00	96	91	87	85	80	74	71	68	86
	2.00	91	87	84	81	75	70	66	63	82
450	1.00	99	96	91	88	85	79	75	73	90
	2.00	96	93	87	85	81	75	70	66	87
500	1.00	102	100	94	92	89	83	78	77	94
	2.00	99	98	91	89	85	80	75	72	91
	3.00	97	95	89	87	82	77	72	68	88
550	1.00	104	104	97	94	92	87	81	80	97
	2.00	102	102	95	92	89	84	78	76	95
	3.00	100	100	92	90	86	81	76	72	92
600	1.50	105	107	98	96	94	89	83	81	99
	2.00	105	106	97	95	93	87	82	79	98
	4.00	101	102	94	92	88	82	77	73	94

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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.

600 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
650	1.50	107	110	101	98	96	92	85	83	102
	2.00	107	110	100	98	95	91	84	82	101
	5.00	103	104	96	94	90	84	79	75	96
700	1.50	109	113	103	100	99	94	88	86	104
	2.00	108	112	103	100	98	93	87	85	103
	6.00	106	106	98	96	92	87	81	77	98
750	2.00	110	114	106	102	100	96	89	87	106
	4.00	108	111	103	100	97	93	87	83	103
	6.00	106	109	101	98	95	90	84	79	101
800	2.00	111	115	108	104	102	98	92	89	108
	4.00	109	113	106	102	100	95	89	86	105
	8.00	109	108	102	99	95	90	85	81	101
850	3.00	112	116	110	105	103	99	93	89	108
	4.00	111	115	109	104	102	98	92	88	107
	8.00	108	111	105	100	98	93	87	82	104
900	4.00	112	116	111	106	103	100	94	90	109
	6.00	111	115	110	104	102	98	92	88	108
	10.00	110	112	106	102	99	94	89	84	105
950	4.00	113	118	114	107	105	102	96	92	111
	10.00	109	113	109	103	101	96	90	85	107
1000	5.00	114	118	115	108	106	103	97	93	112
	12.00	112	114	110	104	102	97	92	87	108
1050	6.00	115	119	117	109	107	104	98	93	113
	12.00	111	115	113	106	103	99	94	88	110

660 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
300	1.00	90	83	81	78	72	66	63	60	79
350	1.00	97	88	86	84	79	73	70	67	85
	1.50	94	86	84	81	76	70	66	62	83
400	1.00	100	94	90	88	84	78	75	73	90
	1.50	98	93	89	87	82	76	72	69	88
	2.00	97	91	87	85	80	74	69	66	86
450	1.00	103	100	94	92	88	83	79	77	94
	2.00	100	97	91	89	85	79	75	72	91
	3.00	98	94	90	87	82	76	72	68	88
500	1.00	106	104	97	95	92	87	82	80	97
	2.00	104	102	95	93	89	84	79	76	95
	3.00	101	99	93	91	87	81	76	72	93
550	1.50	107	107	99	97	94	89	84	82	100
	2.00	106	106	98	96	93	88	82	80	99
	4.00	103	102	95	93	89	83	78	73	95
600	1.50	109	111	102	99	97	92	86	85	102
	2.00	108	110	101	99	96	91	85	83	102
	4.00	106	107	98	96	93	87	81	78	98
	5.00	104	105	96	95	91	85	80	75	97
650	2.00	110	113	103	101	99	94	88	86	104
	4.00	108	111	101	99	96	91	85	81	102
	6.00	107	107	98	97	93	87	82	78	99
700	2.00	112	116	106	103	101	97	90	88	107
	4.00	110	113	104	101	99	94	88	85	104
	6.00	108	111	101	99	96	91	85	81	102
750	3.00	113	116	108	104	102	98	92	89	108
	4.00	112	115	107	103	101	97	90	87	107
	8.00	109	111	103	100	97	92	86	82	103

660 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
800	3.00	114	118	111	106	104	100	94	91	110
	4.00	113	117	110	105	103	99	93	90	109
	8.00	110	113	106	102	100	95	89	84	105
850	4.00	115	118	112	107	105	101	95	92	111
	6.00	113	117	111	106	104	99	94	89	109
	10.00	111	114	108	103	100	96	90	85	106
900	5.00	115	119	114	108	106	103	97	93	112
	6.00	115	118	113	108	106	102	96	92	112
	12.00	113	115	109	105	102	97	92	87	108
950	6.00	116	120	116	110	107	104	98	94	113
	10.00	114	118	113	107	105	101	95	90	111
	12.00	113	116	112	106	104	99	93	88	110

730 CA SWSI

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
250	1.00	85	80	78	74	68	63	59	55	76
300	1.00	94	87	85	82	76	71	68	65	83
	1.50	92	84	83	79	73	68	63	59	80
350	1.00	101	92	90	88	83	77	74	72	89
	1.50	99	91	88	86	80	74	71	68	87
	2.00	97	89	87	84	78	72	68	64	85
400	1.00	104	98	94	92	88	82	79	77	94
	1.50	103	97	93	91	86	80	76	74	92
	2.00	101	95	91	89	84	78	74	71	91
450	1.00	107	103	97	96	92	86	82	81	98
	2.00	105	101	95	93	89	83	79	77	95
	3.00	103	99	93	91	86	81	76	72	93
500	1.50	109	107	100	98	94	89	84	82	100
	2.00	108	106	99	97	93	88	83	81	99
	4.00	104	102	95	93	89	83	78	74	95
550	1.50	111	111	103	100	98	93	87	86	103
	2.00	110	110	102	100	97	92	86	84	102
	4.00	107	107	99	97	93	88	82	79	99
	5.00	106	105	98	95	91	86	80	76	98
600	2.00	112	114	105	102	100	95	89	87	105
	4.00	110	111	102	100	97	92	86	83	103
	6.00	108	108	100	98	94	88	83	78	100
650	2.00	114	117	107	104	103	98	91	90	108
	4.00	112	115	105	103	100	95	89	86	106
	6.00	110	112	103	101	98	92	86	83	104
	8.00	112	109	101	100	95	90	85	82	102
700	3.00	115	118	109	106	104	99	93	91	109
	4.00	114	117	108	105	103	98	92	89	108
	6.00	113	115	106	103	101	96	89	86	106
	8.00	111	113	104	102	99	93	87	83	105
750	4.00	116	119	111	107	105	101	94	92	111
	6.00	114	117	109	106	103	99	92	89	109
	8.00	113	116	107	104	102	96	91	86	107
	10.00	113	113	106	103	100	95	89	85	106
800	5.00	117	120	113	108	106	102	96	93	112
	6.00	116	119	112	108	106	101	95	92	111
	12.00	116	114	108	105	101	96	91	87	107
850	5.00	118	121	115	110	108	104	98	95	114
	6.00	117	121	115	110	108	104	98	94	113
	12.00	114	117	111	106	104	99	93	88	110

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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.

120 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1600	1.00	87	87	80	79	77	70	64	57	81
1900	1.00	90	92	88	85	83	76	70	63	87
	1.50	90	92	86	83	81	75	69	63	86
2200	1.00	93	97	93	90	87	82	74	68	92
	2.00	93	96	92	87	85	80	74	67	90
2500	1.00	95	100	98	94	91	87	78	72	96
	2.00	95	100	97	92	89	85	78	72	95
	3.00	95	100	96	90	87	83	77	71	94
2800	1.00	97	104	102	98	94	91	82	76	100
	2.00	97	104	101	96	93	89	81	75	99
	3.00	97	104	101	94	91	88	81	75	98
3100	1.00	99	107	105	100	97	95	85	80	103
	2.00	99	107	105	99	96	94	85	79	102
	4.00	99	107	105	97	94	91	84	78	101
3400	1.50	101	109	108	103	99	97	88	82	106
	2.00	101	108	108	102	99	96	88	82	105
	5.00	100	108	108	100	96	93	87	81	103
3700	1.50	102	110	110	106	102	99	91	85	108
	2.00	102	110	110	105	101	99	91	85	108
	6.00	102	110	110	103	98	95	89	83	106
4000	2.00	103	111	113	108	104	101	94	87	110
	4.00	103	111	113	107	102	99	93	86	109
	8.00	103	111	112	105	100	97	92	85	108
4300	2.00	105	113	115	111	106	103	97	89	113
	4.00	105	113	115	110	105	102	96	89	112
	8.00	104	112	115	108	102	99	94	88	110
4600	4.00	106	114	117	112	107	104	98	91	114
	6.00	106	114	117	112	106	103	98	91	113
	10.00	106	113	117	111	104	100	96	90	112
4900	5.00	107	115	119	114	109	105	100	93	116
	6.00	107	115	119	114	108	105	100	93	116
	12.00	106	114	118	113	106	102	98	92	114
5200	5.00	108	116	120	117	111	107	103	95	118
	6.00	108	116	120	116	110	106	102	94	118
	12.00	108	116	120	115	108	104	100	94	116
5500	5.00	109	117	122	119	112	108	105	96	120
	6.00	109	117	122	118	112	108	105	96	119
	12.00	109	117	122	118	110	106	102	95	118
5800	5.00	110	118	124	120	114	110	107	98	121
	12.00	110	118	124	120	112	108	104	97	120

135 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1500	1.00	90	89	83	81	79	72	66	59	84
1800	1.00	94	95	90	88	85	78	72	65	90
	1.50	94	95	89	86	84	77	71	65	89
	2.00	94	94	88	85	82	77	71	64	88
2100	1.00	97	99	96	93	90	84	77	70	95
	1.50	97	99	95	92	89	83	76	70	94
	2.00	96	99	95	91	88	82	76	70	93
2400	1.00	99	104	101	97	94	89	81	74	99
	2.00	99	103	100	95	92	88	80	74	98
	3.00	99	103	99	94	91	86	80	74	97
2700	1.00	101	107	105	101	97	93	85	78	103
	2.00	101	107	104	99	96	92	84	78	102
	4.00	101	107	104	97	93	90	83	77	100
3000	1.50	103	110	108	103	99	97	88	82	106
	2.00	103	110	108	103	99	96	87	82	105
	4.00	103	110	108	101	97	94	87	81	104
	5.00	103	110	108	100	96	93	86	80	104

135 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
3300	1.50	105	112	111	106	102	100	91	85	109
	2.00	105	112	111	105	102	100	91	85	108
	4.00	104	112	111	104	100	98	90	84	107
	6.00	104	112	111	102	99	96	89	83	106
3600	2.00	106	114	114	109	104	102	94	88	111
	4.00	106	114	114	107	103	101	93	87	110
	6.00	106	114	113	106	102	99	92	86	109
	8.00	106	113	113	105	101	98	92	86	109
3900	2.00	107	115	116	111	107	104	97	90	114
	4.00	107	115	116	110	106	103	96	90	113
	8.00	107	115	116	109	104	100	95	89	111
4200	4.00	109	116	118	113	108	105	99	92	115
	6.00	109	116	118	113	107	104	98	91	115
	10.00	108	116	118	111	105	102	97	91	114
4500	5.00	110	118	120	115	110	107	101	94	117
	6.00	110	118	120	115	110	106	101	94	117
	12.00	110	117	120	114	107	103	99	93	116
4800	5.00	111	119	122	118	112	109	104	96	119
	6.00	111	119	122	118	112	108	103	96	119
	12.00	111	119	122	116	109	106	101	95	118
5100	5.00	112	120	124	120	114	110	106	98	121
	6.00	112	120	124	120	114	110	106	98	121
	12.00	112	120	124	119	112	108	104	97	120

150 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1200	1	79	75	74	69	66	61	55	49	71
1400	1	85	82	81	75	73	70	63	56	79
	1.5	84	80	79	73	68	64	59	53	75
1600	1	89	87	85	80	77	75	70	62	83
	2	88	85	82	77	72	68	62	57	79
1800	1	91	91	87	84	80	79	76	67	87
	2	93	90	86	81	77	75	69	63	84
2000	1	94	95	89	87	83	82	80	71	90
	2	97	94	88	85	81	80	75	68	88
	3	96	93	87	84	78	75	70	64	86
2200	1	96	97	92	91	86	85	83	75	93
	2	97	97	92	89	85	83	80	72	92
	3	98	97	91	88	83	80	75	69	90
2400	1	97	99	95	94	89	87	86	79	96
	2	98	100	95	93	88	86	83	76	95
	4	99	99	93	91	84	81	76	70	92
2600	1.5	99	102	98	96	91	89	87	81	98
	2	99	102	98	96	90	88	86	80	98
	5	100	101	96	93	86	82	78	72	94
2800	1.5	100	104	101	99	93	91	89	84	100
	2	100	104	101	98	93	90	89	83	100
	6	101	104	98	96	88	84	79	74	97
3000	1.5	101	106	103	101	95	92	91	86	102
	2	101	106	103	101	95	92	91	86	102
	6	103	107	101	99	91	87	83	78	100
3200	2	102	108	105	102	97	94	92	88	104
	4	103	109	105	101	95	92	90	85	103
	8	103	108	103	99	92	87	83	77	100
3400	2	103	109	107	103	99	95	94	91	105
	8	105	110	106	101	95	90	87	81	103
3600	4	105	111	110	104	99	96	94	91	107
	10	106	112	107	101	96	90	86	81	104
3800	5	106	113	111	105	101	97	95	92	108
	10	107	114	109	103	98	93	90	84	106
4000	5	106	114	113	106	102	98	97	94	110
	12	108	115	111	103	99	93	90	85	107

165 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1200	1.00	79	75	76	73	69	65	60	57	74
1400	1.00	87	79	82	79	75	71	66	61	81
	1.50	84	79	79	76	72	68	63	61	78
1600	1.00	93	85	86	84	79	76	71	65	85
	2.00	88	83	83	80	76	72	66	64	82
1800	1.00	98	91	90	88	83	79	75	70	89
	3.00	91	89	86	83	78	74	68	67	84
2000	1.00	102	97	93	91	86	82	79	73	93
	2.00	94	93	90	89	85	81	77	71	91
	3.00	92	91	88	87	82	78	74	70	88
2200	1.00	104	102	95	95	89	85	82	77	96
	2.00	98	98	93	93	88	84	80	75	94
	4.00	93	95	90	89	84	80	75	71	90
2400	1.00	104	106	98	97	92	88	84	80	99
	3.00	97	100	94	94	90	86	82	77	96
	5.00	94	98	92	91	86	82	78	73	92
2600	1.00	105	109	99	100	95	90	87	82	101
	3.00	100	104	96	97	93	89	85	80	99
	6.00	96	101	94	93	88	84	80	75	95
2800	1.00	105	111	101	102	97	92	89	85	103
	3.00	103	109	99	100	96	91	87	83	101
	6.00	98	104	97	96	92	88	83	78	98
3000	2.00	110	118	102	104	99	93	90	86	106
	4.00	102	110	99	101	98	92	89	84	103
	8.00	98	106	98	97	93	88	84	78	99
3200	1.00	106	114	106	105	101	96	93	89	107
	5.00	103	110	102	102	99	94	90	85	104
	10.00	104	111	106	100	95	90	85	80	103
3400	1.00	107	115	108	107	103	98	94	91	109
	5.00	105	112	105	104	101	96	92	88	106
	10.00	100	108	103	100	96	92	88	82	102
3600	3.00	113	121	111	108	104	99	95	91	111
	6.00	105	113	107	105	102	98	94	89	107
	12.00	103	111	107	102	98	94	89	84	105
3800	3.00	114	121	114	109	106	100	96	93	112
	6.00	107	115	110	106	104	99	95	91	109
	12.00	103	110	107	103	100	96	91	86	106

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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.

180 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1000	1.00	74	73	72	69	65	60	57	55	71
1200	1.00	83	79	80	77	72	69	63	59	78
	1.50	81	77	77	74	70	65	61	59	75
1400	1.00	91	83	85	83	78	75	70	64	84
	1.50	89	82	83	81	76	72	67	63	82
	2.00	87	81	81	78	74	70	64	63	80
1600	1.00	99	89	90	87	82	79	75	69	89
	2.00	92	86	87	84	80	76	71	67	86
	3.00	95	91	86	83	78	73	68	67	85
1800	1.00	103	95	93	91	86	82	78	73	93
	2.00	96	91	90	89	84	81	76	71	90
	3.00	93	90	89	86	82	78	73	69	88
2000	1.00	106	101	96	94	89	85	82	76	96
	2.00	99	97	94	93	88	84	80	75	94
	4.00	95	94	91	88	84	80	75	72	90
2200	1.50	107	105	98	97	92	88	84	79	98
	2.00	103	103	97	96	91	87	83	78	98
	4.00	98	99	94	93	88	84	80	75	94
	5.00	96	98	93	91	87	83	78	74	93
2400	1.50	109	110	100	100	95	90	87	82	102
	2.00	107	108	99	99	94	90	86	81	101
	4.00	100	103	97	96	92	88	84	79	98
	6.00	98	101	95	93	89	85	80	76	95
2600	1.50	109	113	102	102	97	92	89	85	104
	3.00	105	109	100	100	96	91	88	83	102
	6.00	100	105	98	97	93	88	84	79	99
2800	2.00	112	117	104	104	99	94	91	87	107
	4.00	105	111	101	102	98	93	90	85	104
	6.00	102	109	100	100	96	91	87	82	102
	8.00	100	107	99	98	94	89	85	80	100
3000	4.00	108	115	103	104	101	95	92	87	107
	6.00	104	112	102	102	99	94	90	85	104
	10.00	104	111	104	100	96	91	86	81	103
3200	3.00	114	121	108	108	103	98	94	90	110
	6.00	106	114	105	105	101	96	93	88	107
	12.00	107	115	109	103	98	93	88	83	106
3400	3.00	115	123	111	109	105	100	96	92	112
	6.00	108	115	108	106	104	99	95	90	109
	12.00	104	111	106	103	99	95	90	85	105

195 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1000	1.00	78	76	76	73	69	64	60	57	74
1200	1.00	87	82	83	80	76	72	67	62	82
	1.50	85	81	81	78	73	69	64	62	79
1400	1.00	96	87	89	86	81	77	73	67	87
	1.50	93	85	87	84	79	76	71	66	86
	2.00	91	85	85	82	78	74	68	66	84
1600	1.00	103	92	93	90	85	82	77	72	92
	2.00	96	89	90	88	83	80	74	70	89
	3.00	94	89	88	85	80	76	71	69	86
1800	1.00	107	99	97	94	89	85	81	76	95
	2.00	100	95	94	92	88	84	79	74	94
	4.00	96	93	90	88	83	79	74	71	89
2000	1.50	108	103	98	97	91	87	84	78	98
	2.00	104	101	97	96	91	87	83	78	97
	4.00	99	98	94	92	88	84	79	75	94
	5.00	98	97	93	91	86	82	77	74	92
2200	1.50	111	109	101	100	94	90	87	82	101
	2.00	108	107	100	99	94	90	86	81	101
	4.00	102	102	97	96	92	88	83	78	98
	6.00	99	100	96	93	89	85	80	76	95

195 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
2400	1.00	109	111	103	103	98	93	90	85	104
	2.00	112	112	103	102	97	92	89	84	104
	4.00	104	106	100	99	95	91	87	82	101
	6.00	102	105	99	97	93	89	84	79	99
2600	2.00	113	117	105	105	99	95	91	87	107
	3.00	110	114	103	104	99	94	91	86	105
	4.00	107	111	102	102	99	94	90	85	104
	6.00	104	109	101	100	96	92	88	83	102
	8.00	102	107	100	98	94	90	85	80	100
2800	4.00	110	116	104	105	101	96	93	88	107
	6.00	106	112	103	103	99	95	91	86	105
	8.00	105	111	103	102	97	93	89	84	103
	10.00	104	111	103	100	96	91	87	82	103
3000	5.00	110	117	106	107	103	98	94	90	109
	6.00	108	115	105	106	102	97	94	89	108
	8.00	107	114	104	104	100	96	92	87	106
	12.00	108	115	108	103	98	93	89	83	106
3200	5.00	113	120	109	109	105	100	96	92	111
	6.00	110	118	108	108	105	99	96	91	110
	8.00	108	116	107	106	103	98	95	89	109
	12.00	106	113	106	104	100	96	92	86	106

210 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
900	1.00	78	78	78	75	70	64	56	49	76
1100	1.00	89	83	86	82	77	72	65	58	83
	1.50	84	83	84	80	76	70	63	56	82
	2.00	77	82	82	78	75	70	61	54	80
1300	1.00	93	88	90	86	82	77	71	64	88
	1.50	93	88	90	86	82	77	70	63	88
	2.00	89	88	88	86	81	75	68	61	87
1500	1.00	96	94	93	91	86	82	76	68	92
	2.00	95	93	92	91	86	81	75	68	92
	3.00	89	91	90	89	84	80	73	65	90
1700	1.00	98	98	95	95	90	85	80	73	96
	2.00	98	98	95	95	90	85	80	73	96
	3.00	96	97	94	94	89	84	77	70	95
	4.00	90	94	93	92	88	83	77	69	93
1900	1.50	100	103	98	98	93	88	83	76	99
	2.00	100	103	98	98	93	88	83	76	99
	4.00	97	101	97	97	92	87	81	74	98
	5.00	92	97	96	95	91	86	80	73	96
2100	2.00	102	106	100	101	96	91	86	80	102
	4.00	101	106	100	101	96	91	85	78	101
	6.00	94	100	99	98	94	89	84	76	99
2300	2.00	103	110	102	104	98	94	89	83	104
	4.00	103	110	102	104	98	94	89	82	104
	6.00	100	106	102	102	98	93	87	80	103
	8.00	93	100	101	100	95	92	87	78	101
2500	4.00	105	112	104	106	101	96	91	85	107
	6.00	103	110	105	105	100	96	90	83	106
	8.00	98	106	104	103	99	95	89	82	105
	10.00	93	100	103	102	97	94	89	81	103

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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.

210 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
2700	5.00	106	113	107	107	103	98	94	88	109
	6.00	106	113	107	107	103	98	94	87	109
	8.00	103	110	107	105	103	98	92	85	107
	10.00	98	105	106	104	101	97	92	84	106
	12.00	93	101	104	103	99	95	91	83	105
2900	5.00	107	115	110	109	105	100	96	90	110
	6.00	107	115	110	109	105	100	96	90	110
	8.00	106	113	110	108	105	100	95	88	110
	10.00	103	110	109	106	104	99	94	87	109
	12.00	98	106	107	105	102	98	94	86	107

225 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
900	1.00	82	81	81	78	72	66	59	52	79
	1.50	76	79	79	75	71	65	57	50	77
1100	1.00	91	86	89	84	80	74	68	60	86
	1.50	89	86	87	84	78	72	65	58	85
	2.00	83	85	85	81	77	72	64	57	83
1300	1.00	96	90	93	89	84	79	74	66	90
	2.00	94	91	91	88	84	78	71	64	90
	3.000	85	89	89	85	82	77	69	62	87
1500	1.00	98	96	95	93	88	84	78	71	94
	2.00	98	96	95	93	88	84	77	70	94
	3.00	94	95	93	92	87	82	75	68	93
	4.00	87	92	92	90	86	81	74	67	91
1700	1.50	101	101	98	97	92	87	82	75	98
	2.00	101	101	98	97	92	87	82	75	98
	3.00	100	100	97	97	92	87	81	74	97
	4.00	96	98	96	95	91	86	79	72	96
	5.00	90	95	95	94	89	85	78	71	95
1900	1.50	103	105	100	100	95	91	85	78	101
	2.00	103	105	100	100	95	91	85	78	101
	3.00	103	105	100	100	95	91	85	78	101
	4.00	101	104	100	100	95	90	84	77	100
	6.00	93	99	98	97	92	88	82	74	98
2100	2.00	104	109	102	103	98	93	88	82	104
	4.00	104	109	102	103	98	93	88	81	104
	6.00	100	105	102	101	97	92	86	79	102
	8.00	93	99	101	100	94	91	86	77	100
2300	4.00	106	112	104	106	100	96	91	85	107
	6.00	104	111	104	105	100	95	90	83	106
	8.00	99	106	104	103	99	94	89	81	104
	10.00	93	100	103	102	96	93	89	80	103
2500	5.00	107	114	106	108	103	98	93	87	109
	6.00	107	114	106	108	103	98	93	86	109
	8.00	104	111	107	106	102	97	91	84	108
	10.00	99	106	106	105	100	96	91	83	106
	12.00	94	101	105	104	99	95	91	83	105
2700	5.00	109	116	109	109	105	101	96	90	111
	6.00	109	116	109	109	105	101	96	90	111
	8.00	107	114	109	108	105	100	95	88	110
	10.00	104	111	109	107	104	99	94	87	109
	12.00	100	107	108	106	102	98	94	86	108

245 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
850	1.00	84	82	83	79	74	67	60	53	80
	1.50	79	81	80	76	72	66	58	51	78
1050	1.00	93	88	90	85	81	76	69	61	87
	1.50	91	88	89	85	80	74	67	60	86
	2.00	87	87	87	83	79	73	66	59	85

245 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1250	1.00	98	92	95	90	86	81	75	67	92
	1.50	98	92	95	90	86	81	75	67	92
	2.00	97	92	94	90	85	80	73	66	92
	3.00	90	91	92	88	84	79	71	64	90
1450	1.50	101	98	97	95	90	85	79	72	96
	2.00	101	98	97	95	90	85	79	72	96
	3.00	99	98	96	94	89	84	77	70	95
	4.00	93	95	94	92	88	83	76	69	93
1650	1.50	103	103	100	99	94	89	83	76	100
	2.00	103	103	100	99	94	89	83	76	100
	3.00	103	103	100	99	94	89	83	76	100
	4.00	100	102	99	98	93	88	81	74	99
	5.00	96	99	98	96	92	87	80	73	97
1850	2.00	105	107	102	102	97	92	87	80	103
	3.00	105	107	102	102	97	92	87	80	103
	4.00	105	107	102	102	97	92	86	79	103
	5.00	102	106	102	101	96	91	85	78	102
	6.00	99	103	101	100	95	91	84	77	101
2050	3.00	107	111	104	105	100	95	90	84	106
	4.00	107	111	104	105	100	95	90	83	106
	5.00	107	110	104	105	100	95	89	82	106
	6.00	105	109	104	104	99	94	88	81	105
	8.00	99	104	103	102	97	93	88	80	103
2250	4.00	109	114	106	108	102	98	93	87	109
	5.00	109	114	106	108	102	98	93	86	109
	6.00	108	114	106	108	102	98	92	85	108
	8.00	104	111	107	106	102	97	91	83	107
	10.00	99	106	106	105	100	96	91	82	106
2450	5.00	110	117	108	110	105	100	95	89	111
	6.00	110	117	108	110	105	100	95	89	111
	8.00	108	115	109	109	105	100	94	87	110
	10.00	105	112	109	108	104	99	93	86	109
	12.00	100	107	108	107	102	98	93	85	108
2650	6.00	112	118	111	112	107	103	98	92	113
	12.00	106	113	111	109	106	101	96	88	111

270 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
700	1.00	80	80	79	75	70	63	56	49	77
800	1.00	86	85	84	80	75	69	62	55	82
	1.50	82	83	82	78	74	67	60	53	80
900	1.00	90	88	88	84	79	74	67	59	86
	2.00	84	86	85	81	77	71	63	56	83
1000	1.00	94	90	92	87	82	77	71	63	89
	2.00	91	89	90	86	81	75	67	60	87
1100	1.00	98	92	95	89	85	80	74	66	91
	2.00	96	92	93	89	84	79	72	65	91
	3.00	89	91	91	87	83	78	69	62	89
1200	1.00	101	94	97	92	88	83	77	69	94
	2.00	101	94	97	92	88	83	76	69	94
	3.00	95	94	95	91	86	81	73	66	92
1300	1.50	103	97	99	94	90	85	79	71	96
	2.00	103	97	99	94	90	85	79	71	96
	4.00	94	96	95	92	88	83	75	68	93
1400	1.50	104	100	100	97	92	87	81	74	98
	2.00	104	100	100	97	92	87	81	74	98
	5.00	93	97	96	93	89	85	77	70	95

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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.

270 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1500	1.50	105	102	101	99	94	89	83	76	100
	2.00	105	102	101	99	94	89	83	76	100
	5.00	98	100	98	97	92	87	80	73	98
1600	2.00	106	105	102	101	96	91	85	78	102
	4.00	105	104	102	100	95	90	84	77	101
	6.00	98	101	100	98	93	89	82	75	99
1700	2.00	107	107	104	102	97	93	87	80	103
	4.00	107	107	104	102	97	93	87	80	103
	6.00	101	104	102	101	96	91	84	77	102
1800	3.00	108	109	105	104	99	94	89	82	105
	8.00	98	103	103	101	96	92	86	78	102
1900	3.00	109	111	106	106	100	96	91	84	107
	8.00	102	106	105	103	99	94	88	80	104
2000	4.00	110	113	107	107	102	98	92	86	108
	10.00	100	105	105	104	99	95	90	81	105
2100	4.00	111	115	108	109	103	99	94	87	110
	10.00	103	109	107	106	101	97	91	83	107
2200	5.00	112	117	109	110	105	100	95	89	111
	12.00	102	108	108	107	102	98	93	84	108
2300	6.00	113	119	110	112	106	102	96	90	112
	12.00	105	111	110	109	104	100	94	86	110

300 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
550	1.00	76	77	73	71	66	57	50	43	72
650	1.00	82	83	81	77	71	64	57	50	78
750	1.00	87	87	86	82	77	71	64	57	83
	1.50	85	85	84	80	75	68	61	54	82
850	1.00	92	90	90	85	81	75	68	60	87
	2.00	88	88	88	84	79	72	65	58	85
950	1.00	96	93	93	89	84	79	72	64	90
	2.00	95	92	92	88	83	76	69	62	89
1050	1.00	100	95	96	91	87	82	75	67	93
	2.00	100	95	96	91	87	81	74	67	93
	3.00	94	94	94	90	85	79	72	65	91
1150	1.50	104	97	99	94	90	85	78	70	96
	2.00	104	97	99	94	90	85	78	70	96
	4.00	94	96	96	91	87	82	74	67	93
1250	1.50	106	99	101	96	92	87	81	73	98
	2.00	106	99	101	96	92	87	81	73	98
	5.00	95	98	98	93	89	85	77	69	95
1350	1.50	107	102	103	99	94	89	83	76	100
	2.00	107	102	103	99	94	89	83	76	100
	6.00	95	99	99	95	91	87	79	72	97
1450	2.00	108	105	104	101	96	91	86	78	102
	4.00	107	105	103	101	96	91	84	77	102
	6.00	100	102	101	98	94	89	82	75	100
1550	2.00	110	107	105	103	98	93	88	80	104
	4.00	110	107	105	103	98	93	87	80	104
	6.00	104	106	103	101	97	92	85	78	102
1650	3.00	111	110	106	105	100	95	90	82	106
	4.00	111	110	106	105	100	95	89	82	106
	8.00	102	105	104	102	97	93	86	79	103
1750	4.00	112	112	108	107	101	97	91	84	108
	6.00	110	111	107	106	101	96	90	83	107
	10.00	100	105	105	103	98	94	88	80	104
1850	4.00	113	114	109	108	103	98	93	86	109
	6.00	112	114	109	108	103	98	92	85	109
	10.00	104	108	107	105	101	96	90	82	107

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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.

300 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1950	5.00	114	116	110	110	104	100	95	88	111
	6.00	114	116	110	110	104	100	94	88	111
	12.00	103	108	108	106	101	98	92	84	107
2050	6.00	115	118	111	111	106	101	96	90	112
	12.00	106	111	110	109	104	99	94	86	110

330 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
500	1.00	77	78	74	71	65	57	50	43	72
600	1.00	83	85	82	78	72	65	58	51	79
700	1.00	88	90	87	83	78	72	65	58	85
	1.50	87	87	86	82	76	69	62	55	83
800	1.00	93	92	91	87	82	76	69	61	88
	1.50	93	92	91	86	81	75	68	61	88
	2.00	91	90	89	85	80	73	66	59	87
900	1.00	98	95	95	90	85	80	73	65	92
	2.00	97	94	94	90	85	78	71	64	91
	3.00	92	92	92	87	83	77	69	62	89
1000	1.00	102	97	98	93	89	83	77	69	95
	2.00	102	97	98	93	89	83	76	69	95
	4.00	92	95	94	89	86	80	72	65	92
1100	1.50	105	99	101	96	91	86	80	72	98
	2.00	105	99	101	96	91	86	80	72	98
	4.00	99	98	98	94	89	84	76	69	96
1200	1.50	109	101	104	98	94	89	83	75	100
	2.00	109	101	104	98	94	89	83	75	100
	4.00	105	102	101	98	93	87	80	73	99
1300	2.00	110	104	105	100	96	91	85	77	102
	4.00	109	104	104	100	96	90	83	76	102
	6.00	101	102	102	98	94	89	81	74	100
1400	2.00	111	107	106	103	98	93	87	80	104
	4.00	111	107	106	103	98	93	87	80	104
	6.00	106	106	104	101	97	91	84	77	103
1500	3.00	113	109	107	105	100	95	90	82	106
	4.00	113	109	107	105	100	95	89	82	106
	6.00	110	109	106	104	99	94	87	80	105
	8.00	103	106	104	102	98	93	86	79	103
1600	4.00	114	112	109	107	102	97	91	84	108
	6.00	112	111	108	106	102	96	90	83	108
	8.00	108	109	107	105	100	95	89	81	106
	10.00	102	106	105	103	99	95	88	80	105
1700	4.00	115	114	110	109	104	99	93	86	110
	6.00	115	114	110	109	103	99	93	86	110
	10.00	106	110	108	106	101	97	90	83	107
1800	5.00	116	116	111	110	105	101	95	88	111
	6.00	116	116	111	110	105	101	95	88	111
	12.00	106	110	109	107	102	98	92	84	108

365 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
500	1.00	81	82	79	75	69	61	54	47	76
600	1.00	86	90	86	81	76	69	62	55	83
	1.50	86	87	84	80	75	67	60	53	81
700	1.00	92	93	90	86	81	75	68	60	88
	1.50	92	92	90	86	80	73	66	59	87
	2.00	90	90	88	84	79	72	65	58	86

365 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
800	1.00	97	96	94	90	85	79	72	64	92
	2.00	96	94	94	89	84	77	70	63	91
	3.00	92	92	91	87	83	76	68	61	89
900	1.00	101	98	98	93	89	83	76	68	95
	2.00	101	98	98	93	89	83	76	69	95
	3.00	98	97	96	92	87	80	73	66	93
1000	1.50	105	100	101	96	92	86	80	72	98
	2.00	105	100	101	96	92	86	80	72	98
	3.00	104	100	100	96	91	85	78	71	97
	4.00	100	99	99	94	90	84	76	69	96
1100	1.50	109	102	104	99	94	89	83	75	101
	2.00	109	102	104	99	94	89	83	75	101
	4.00	106	103	102	99	93	87	80	73	100
	5.00	102	102	101	97	92	87	79	72	99
1200	2.00	112	104	107	101	97	92	86	78	103
	4.00	111	104	106	101	97	91	84	77	103
	6.00	104	104	104	99	95	90	82	75	101
1300	2.00	114	107	108	104	99	94	88	80	105
	4.00	114	107	108	104	99	94	88	80	105
	6.00	109	107	106	103	98	92	85	78	104
	8.00	102	105	104	100	96	92	84	77	102
1400	3.00	115	110	109	106	101	96	91	83	107
	4.00	115	110	109	106	101	96	91	83	107
	6.00	113	110	108	106	101	95	88	81	107
	8.00	107	108	107	104	99	94	87	80	105
1500	4.00	116	113	111	108	103	98	93	85	109
	6.00	116	112	110	108	103	98	91	84	109
	8.00	112	112	108	107	102	97	90	83	108
	10.00	107	109	107	105	101	96	89	82	106
1600	5.00	117	115	112	110	105	100	95	87	111
	6.00	117	115	112	110	105	100	94	87	111
	8.00	115	114	111	109	104	99	92	85	110
	10.00	111	112	110	108	103	98	92	84	109
	12.00	106	110	109	107	102	98	91	83	108

402 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
450	1.00	82	82	79	75	68	61	54	47	76
550	1.00	88	91	86	82	76	69	62	55	84
	1.50	87	88	84	80	75	67	60	53	82
650	1.00	92	95	91	87	82	76	68	60	89
	1.50	93	94	91	87	81	74	67	60	88
	2.00	92	92	90	85	80	73	66	59	87
750	1.00	98	98	95	91	86	81	73	65	93
	2.00	98	97	95	91	85	79	72	65	92
	3.00	95	94	93	89	84	77	70	63	90
850	1.00	103	100	99	95	90	84	77	69	96
	2.00	103	100	99	95	90	84	77	70	96
	3.00	101	99	98	94	88	82	75	68	95
	4.00	97	98	96	92	88	81	73	66	94
950	1.50	107	102	103	98	93	88	81	73	100
	2.00	107	102	103	98	93	88	81	73	100
	3.00	106	102	102	98	93	87	80	73	99
	4.00	104	102	101	97	91	85	78	71	98
	5.00	100	101	99	95	91	85	77	70	97
1050	2.00	111	105	106	100	96	91	84	76	103
	3.00	111	105	106	100	96	91	84	76	102
	4.00	109	105	105	100	95	89	82	75	102
	5.00	106	104	104	99	94	88	81	74	101
	6.00	103	103	103	98	94	88	80	73	100

402 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1150	2.00	114	106	109	103	99	94	87	79	105
	3.00	114	106	109	103	99	94	87	79	105
	4.00	114	106	109	103	99	93	86	79	105
	6.00	109	107	106	102	97	91	84	77	103
1250	3.00	117	109	111	105	101	96	90	82	107
	4.00	117	109	111	105	101	96	90	82	107
	6.00	114	109	109	105	100	94	87	80	107
	8.00	108	108	107	103	99	94	86	79	105
1350	4.00	118	112	112	108	103	98	92	85	109
	6.00	117	112	111	108	103	98	91	84	109
	8.00	113	111	110	107	102	96	89	82	108
	10.00	108	110	108	105	101	96	88	81	107
1450	5.00	119	115	113	110	105	100	95	87	111
	6.00	119	115	113	110	105	100	94	87	111
	8.00	117	114	112	109	105	99	92	85	111
	10.00	113	113	110	108	104	98	91	84	109
	12.00	108	111	110	107	102	98	91	83	108

445 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
450	1.00	86	87	83	78	72	65	58	51	80
550	1.00	91	94	89	85	80	74	66	58	87
	1.50	92	93	89	84	78	71	64	57	86
	2.00	90	91	87	83	78	70	63	56	84
650	1.00	96	98	94	90	85	79	71	63	92
	1.50	96	98	94	90	85	79	71	64	92
	2.00	96	97	94	89	83	77	70	63	91
750	1.00	101	101	99	94	89	84	76	68	96
	1.50	101	101	99	94	89	84	76	68	96
	2.00	101	101	99	94	89	83	76	69	96
	3.00	100	99	97	93	87	81	74	67	94
850	1.50	106	103	102	98	93	87	80	72	99
	2.00	106	103	102	98	93	87	80	72	99
	3.00	106	103	102	97	92	86	79	72	99
	4.00	104	102	101	96	91	85	77	70	98
	5.00	101	101	99	95	91	84	76	69	97
950	2.00	110	106	106	101	96	91	84	76	103
	3.00	110	106	106	101	96	91	84	76	103
	4.00	109	105	105	100	95	89	82	75	102
	5.00	107	105	104	100	94	88	81	74	101
	6.00	104	104	103	98	94	88	80	73	100
1050	2.00	114	108	109	103	99	94	87	79	106
	3.00	114	108	109	103	99	94	87	79	106
	4.00	114	108	109	103	99	94	87	80	106
	5.00	113	108	108	103	98	92	85	78	105
	6.00	110	108	107	103	98	92	84	77	104
1150	3.00	118	110	112	106	102	97	90	82	108
	4.00	118	110	112	106	102	97	90	82	108
	5.00	118	110	112	106	102	96	89	82	108
	6.00	116	110	110	106	101	95	88	81	108
	8.00	111	110	109	104	100	94	87	80	106
1250	4.00	120	112	114	108	104	99	93	85	111
	5.00	120	112	114	108	104	99	93	85	111
	6.00	120	112	113	108	104	99	92	85	110
	8.00	116	113	112	108	103	97	90	83	109
	10.00	111	111	111	106	102	97	89	82	108
1350	6.00	121	115	115	111	106	101	95	88	113
	8.00	120	115	114	111	106	100	93	86	112
	10.00	116	115	113	110	105	99	92	85	111
	12.00	112	113	112	108	104	99	91	84	110

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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.

490 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
400	1.00	86	87	83	77	71	64	57	50	79
500	1.00	93	95	90	86	80	73	66	58	87
	1.50	92	93	89	84	78	71	64	57	86
	2.00	91	91	87	83	77	70	63	56	85
600	1.00	96	100	95	91	86	80	72	64	93
	1.50	96	100	95	91	86	79	72	64	93
	2.00	97	99	95	90	84	77	70	63	92
	3.00	96	97	92	88	84	75	68	61	90
700	1.00	102	103	99	95	90	84	77	69	97
	1.50	102	103	99	95	90	84	77	69	97
	2.00	102	103	99	95	90	84	77	69	97
	3.00	102	101	99	94	88	82	74	67	96
	4.00	100	99	96	93	88	81	73	66	94
800	1.50	107	105	104	99	94	88	81	73	101
	2.00	107	105	104	99	94	88	81	73	101
	3.00	107	105	103	99	94	88	81	74	101
	4.00	106	104	102	98	92	86	79	72	99
	5.00	103	103	101	97	92	85	78	71	98
900	2.00	112	108	107	102	97	92	85	77	104
	3.00	112	108	107	102	97	92	85	77	104
	4.00	111	108	107	102	97	91	84	77	104
	5.00	110	107	106	101	96	90	82	75	103
	6.00	107	106	105	100	96	89	82	75	102
1000	3.00	116	110	110	105	101	95	89	81	107
	4.00	116	110	110	105	101	95	88	81	107
	5.00	115	110	110	105	100	94	87	80	107
	6.00	114	110	109	105	99	93	86	79	106
	8.00	109	108	107	103	98	93	85	78	104
1100	4.00	119	112	113	108	103	98	92	84	110
	5.00	119	112	113	108	103	98	91	84	110
	6.00	119	112	113	108	103	97	90	83	110
	8.00	115	112	111	107	102	96	89	82	108
	10.00	110	111	110	105	101	96	87	80	107
1200	5.00	123	114	116	110	106	101	95	87	113
	6.00	123	114	116	110	106	101	94	87	112
	8.00	121	114	115	110	105	99	92	85	112
	10.00	116	114	113	109	104	99	91	84	111
	12.00	112	113	112	107	103	99	90	83	110

540 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
400	1.00	91	91	86	81	75	68	61	54	83
	1.50	89	88	84	80	73	66	59	52	81
500	1.00	96	98	93	89	83	77	69	61	90
	1.50	96	97	93	88	82	75	68	61	90
	2.00	95	96	92	87	81	73	66	59	89
600	1.00	100	103	98	94	89	83	75	67	96
	1.50	100	103	98	94	89	83	75	67	96
	2.00	100	103	98	94	89	82	75	68	96
	3.00	100	101	97	92	87	79	72	65	94
700	1.50	106	106	103	98	93	87	80	72	100
	2.00	106	106	103	98	93	87	80	72	100
	3.00	106	105	102	98	92	86	79	72	99
	4.00	105	103	101	97	91	84	77	70	98
	5.00	103	102	99	95	91	83	76	69	97

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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.

540 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
800	2.00	111	109	107	102	97	91	84	76	104
	3.00	111	109	107	102	97	91	84	76	104
	4.00	110	108	106	102	96	90	83	76	103
	5.00	109	107	105	101	95	89	81	74	102
	6.00	107	106	104	100	95	88	81	74	101
900	2.00	115	111	110	105	100	95	88	80	107
	3.00	115	111	110	105	100	95	88	80	107
	4.00	115	111	110	105	100	95	88	80	107
	5.00	115	111	110	105	100	94	87	80	107
	6.00	113	110	109	105	99	93	85	78	106
	8.00	109	109	107	102	98	92	84	77	104
1000	4.00	119	113	113	108	104	98	92	84	110
	5.00	119	113	113	108	104	98	91	84	110
	6.00	119	113	113	108	103	97	90	83	110
	8.00	116	113	111	107	102	96	88	81	109
	10.00	111	111	110	105	101	96	87	80	107
1100	5.00	123	115	116	111	106	101	95	87	113
	6.00	123	115	116	111	106	101	94	87	113
	8.00	121	115	115	111	106	100	93	86	112
	10.00	118	115	114	110	105	99	91	84	111
	12.00	114	114	113	108	104	99	91	84	110

600 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
300	1.00	87	84	80	75	67	60	53	46	76
400	1.00	95	94	90	85	79	72	65	57	87
	1.50	93	93	89	84	77	70	63	56	85
	2.00	92	91	87	83	76	68	61	54	84
500	1.00	100	101	96	92	86	80	72	64	94
	1.50	100	101	96	92	86	80	72	64	94
	2.00	100	100	96	91	85	78	71	64	93
	3.00	98	98	93	89	84	76	69	62	91
600	1.50	103	107	101	97	92	86	78	70	99
	2.00	103	107	101	97	92	86	78	70	99
	3.00	104	105	101	96	90	83	76	69	98
	4.00	103	104	99	95	90	82	75	68	97
700	1.50	109	109	106	101	96	91	83	75	103
	2.00	109	109	106	101	96	91	83	75	103
	3.00	109	109	106	101	96	90	83	75	103
	4.00	109	108	105	101	95	88	81	74	102
	5.00	108	107	104	100	94	87	80	73	101
	6.00	107	106	103	99	94	87	79	72	100
800	2.00	114	112	110	105	100	95	87	79	107
	3.00	114	112	110	105	100	95	87	79	107
	4.00	114	112	110	105	100	94	87	80	107
	5.00	114	111	109	105	99	93	86	79	106
	6.00	113	110	109	104	99	92	85	78	106
	8.00	110	109	107	102	98	91	83	76	104
900	4.00	119	114	113	108	104	98	91	83	110
	5.00	119	114	113	108	104	98	91	84	110
	6.00	118	114	113	108	103	97	90	83	110
	8.00	116	113	112	107	102	96	88	81	109
	10.00	113	112	110	106	101	95	87	80	108
1000	5.00	123	117	117	111	107	101	95	87	113
	6.00	123	117	117	111	107	101	95	87	113
	8.00	122	116	116	111	106	100	93	86	113
	10.00	119	116	115	110	105	99	92	85	112
	12.00	116	115	114	109	104	99	91	84	111

660 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
300	1.00	91	88	84	78	71	64	57	50	80
350	1.00	96	93	89	84	78	71	64	57	86
	1.50	93	92	88	82	75	68	61	54	84
400	1.00	98	97	93	88	82	75	67	59	90
	2.00	96	96	91	86	79	72	65	58	88
	3.00	94	92	88	85	78	70	63	56	86
450	1.00	101	101	96	92	86	79	71	63	93
	2.00	100	100	96	91	84	77	70	63	92
	3.00	98	98	93	89	83	75	68	61	91
500	1.00	103	104	99	95	89	83	75	67	96
	2.00	103	104	99	95	89	82	75	68	96
	3.00	102	102	98	93	87	80	73	66	95
550	1.50	105	107	102	97	92	86	78	70	99
	2.00	105	107	102	97	92	86	78	70	99
	3.00	105	106	101	97	91	84	77	70	98
	4.00	104	104	100	96	90	82	75	68	97
600	1.50	107	110	104	100	95	89	81	73	102
	2.00	107	110	104	100	95	89	81	73	102
	3.00	107	110	104	100	95	88	81	74	102
	4.00	108	108	104	99	93	86	79	72	101
	5.00	107	107	102	98	93	85	78	71	100
650	2.00	110	111	106	102	97	91	83	75	104
	3.00	110	111	106	102	97	91	83	76	104
	4.00	110	110	106	102	96	89	82	75	103
	6.00	108	108	104	100	95	87	80	73	102
700	2.00	112	112	109	104	99	93	86	78	106
	4.00	112	112	109	104	99	93	86	79	106
	6.00	112	110	107	103	97	90	83	76	104
750	3.00	115	114	111	106	101	96	88	80	108
	4.00	115	114	111	106	101	95	88	80	108
	6.00	115	112	110	106	100	93	86	79	107
	8.00	112	110	108	104	99	92	85	78	106
800	3.00	118	115	113	108	103	98	90	82	110
	4.00	118	115	113	108	103	98	90	82	110
	6.00	117	114	112	108	102	96	89	82	109
	8.00	115	113	111	107	101	95	87	80	108
850	4.00	120	116	115	110	105	99	92	84	112
	6.00	120	116	115	110	105	99	92	85	112
	8.00	119	115	113	109	103	97	90	83	110
	10.00	116	114	112	108	103	96	89	82	109

730 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
250	1.00	88	85	81	75	67	60	53	46	77
300	1.00	96	92	87	82	75	68	61	54	84
	1.50	93	90	86	81	73	66	59	52	82
350	1.00	99	96	92	87	81	74	66	58	89
	1.50	98	96	92	86	79	72	65	58	88
	2.00	96	94	90	85	78	71	64	57	87
400	1.00	102	101	96	91	85	78	70	62	93
	2.00	100	100	95	90	83	76	69	62	92
	3.00	98	97	93	89	82	74	67	60	90
450	1.00	104	104	99	95	89	82	74	66	96
	2.00	104	104	99	95	89	82	75	68	96
	3.00	103	102	98	93	86	79	72	65	95
500	1.50	106	107	102	98	92	86	78	70	100
	2.00	106	107	102	98	92	86	78	70	100
	3.00	106	106	102	97	91	84	77	70	99
	4.00	105	105	100	96	90	82	75	68	97

730 CA DWDI / CAF-DW

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
550	1.50	108	110	105	101	95	89	81	73	102
	2.00	108	110	105	101	95	89	81	73	102
	4.00	109	108	105	99	93	86	79	72	101
	5.00	108	107	103	99	93	85	78	71	100
600	2.00	110	113	107	103	98	92	84	76	105
	4.00	110	112	107	103	97	90	83	76	105
	6.00	110	110	105	101	96	88	81	74	103
650	2.00	113	114	110	105	100	94	86	78	107
	4.00	113	114	110	105	100	94	86	79	107
	6.00	113	112	109	104	98	91	84	77	106
	8.00	111	111	106	103	98	90	83	76	104
700	3.00	116	116	112	107	102	97	89	81	109
	4.00	116	116	112	107	102	97	89	81	109
	6.00	116	114	111	107	101	94	87	80	108
	8.00	114	113	110	105	100	93	86	79	107
750	4.00	118	117	114	109	104	99	91	83	111
	6.00	118	116	114	109	104	98	91	83	111
	8.00	117	114	113	108	103	96	89	82	110
	10.00	115	113	111	107	102	95	88	81	108
800	5.00	121	118	116	111	106	101	93	85	113
	6.00	121	118	116	111	106	100	93	86	113
	8.00	120	117	115	111	105	98	91	84	112
	10.00	118	116	114	109	104	98	90	83	111
	12.00	116	115	112	108	104	97	89	82	110

120 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1500	1.00	87	85	79	72	68	62	58	51	76
1800	1.00	93	92	82	79	76	68	64	57	82
	1.50	93	93	82	77	73	67	63	56	81
2100	1.00	97	98	89	85	81	74	69	63	88
	2.00	95	97	88	83	78	72	68	61	87
2400	1.00	100	102	95	90	85	79	73	67	93
	2.00	98	101	94	88	83	77	72	66	91
2700	1.00	102	106	100	95	89	84	77	72	97
	2.00	101	105	99	93	87	82	76	71	96
	3.00	99	104	99	92	86	81	75	70	95
3000	1.00	104	110	105	99	92	87	81	76	101
	2.00	104	109	104	97	91	86	79	74	100
	4.00	101	107	104	96	88	83	78	73	99
3300	1.00	106	113	109	101	95	91	85	80	104
	2.00	106	113	108	99	94	90	82	77	103
	5.00	103	110	108	98	91	86	80	76	102
3600	1.50	108	116	112	102	97	93	86	82	107
	2.00	107	115	112	101	96	93	85	81	107
	6.00	105	113	112	99	93	89	83	78	105
3900	1.50	109	117	115	105	100	96	89	85	110
	2.00	109	117	115	105	99	95	88	84	109
	6.00	106	114	113	102	97	92	85	81	107
4200	2.00	110	118	117	108	102	97	91	86	112
	4.00	109	117	116	107	101	96	89	84	111
	8.00	107	115	116	106	99	93	87	83	110
4500	4.00	111	119	119	110	103	98	92	86	113
	6.00	109	117	118	109	103	97	91	86	112
	10.00	109	117	119	109	101	95	89	84	112

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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. Certified rating seal for sound performance does not apply to the CF.

120 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
4800	4.00	112	120	121	113	106	100	94	88	116
	6.00	111	119	120	112	105	99	93	88	115
	10.00	109	117	120	112	104	97	92	87	114
5100	5.00	113	121	123	115	108	102	96	90	117
	6.00	113	121	123	115	107	101	96	90	117
	12.00	111	119	122	114	106	99	93	88	116
5400	5.00	114	122	125	117	110	104	98	91	120
	6.00	114	122	125	117	110	103	98	91	119
	12.00	111	119	123	116	108	101	96	90	118

135 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1300	1.00	88	84	78	72	67	62	57	50	75
1500	1.00	92	89	83	77	73	67	62	55	80
1700	1.00	97	94	86	81	78	71	66	59	85
	1.50	95	94	85	80	76	70	66	59	84
1900	1.00	100	99	89	85	82	74	70	63	89
	2.00	98	99	88	83	79	73	69	62	87
2100	1.00	102	102	94	89	85	78	73	66	92
	2.00	100	101	92	88	83	77	72	66	91
2300	1.00	104	105	98	93	88	82	76	70	96
	2.00	102	104	97	91	86	80	75	69	94
	3.00	101	104	96	90	84	79	74	68	94
2500	1.00	106	108	102	96	90	85	79	73	99
	2.00	104	107	100	95	89	83	77	72	98
	3.00	103	106	100	93	88	82	77	71	96
2700	1.00	107	111	105	99	93	88	82	76	102
	2.00	106	110	104	97	91	86	80	74	100
	4.00	104	109	103	96	89	84	78	73	99
2900	1.00	108	113	108	102	95	90	85	79	104
	2.00	108	113	107	100	94	89	82	77	103
	5.00	105	111	107	99	90	86	80	75	102
3100	1.50	109	115	110	103	96	92	85	80	106
	2.00	109	115	110	102	96	91	84	79	106
	6.00	107	113	110	100	92	87	82	77	104
3300	1.50	110	117	113	104	98	94	88	83	108
	2.00	110	117	112	104	98	94	86	82	108
	6.00	107	114	112	101	95	90	84	80	106
3500	1.50	112	119	115	106	100	96	90	85	110
	6.00	108	116	114	102	97	93	86	82	108
3700	2.00	112	120	117	107	101	98	91	86	112
	8.00	110	117	117	104	98	93	87	83	110
3900	2.00	113	121	119	109	103	99	93	88	113
	8.00	110	118	118	106	100	96	89	85	111
4100	4.00	114	122	120	110	104	100	92	87	114
	10.00	111	119	120	109	101	96	90	86	113
4300	4.00	115	123	122	112	106	101	94	89	116
	10.00	112	120	121	111	103	98	92	87	114
4500	5.00	115	123	123	114	107	102	95	90	117
	12.00	113	121	122	113	105	99	93	88	116
4700	6.00	116	124	124	115	108	103	97	91	119
	12.00	114	121	123	114	107	101	95	90	117

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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. Certified rating seal for sound performance does not apply to the CF.

150 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1200	1.00	72	77	72	71	73	68	61	53	76
1400	1.00	74	80	78	76	75	73	67	59	80
1600	1.00	78	81	84	79	78	78	73	65	84
	2.00	84	86	80	76	74	74	68	51	81
1800	1.00	81	84	89	84	81	81	77	69	88
	2.00	81	85	85	80	78	79	74	66	85
2000	1.00	83	88	92	88	84	84	80	73	91
	2.00	82	88	89	85	82	82	78	71	89
	3.00	86	91	88	83	79	79	75	65	87
2200	1.00	85	92	95	93	87	86	83	77	94
	2.00	84	90	92	90	86	85	82	75	92
	3.00	85	92	91	87	83	83	80	72	90
2400	1.00	87	95	98	96	89	88	86	80	97
	2.00	85	93	95	94	88	87	85	79	96
	4.00	87	95	94	90	84	84	81	74	92
2600	1.00	88	98	100	100	91	90	88	83	100
	2.00	87	96	98	98	91	89	87	82	99
	5.00	89	98	97	92	86	85	83	76	95
2800	1.50	89	100	101	103	93	91	90	85	102
	2.00	89	99	100	102	93	91	90	84	101
	6.00	93	103	101	95	88	86	85	77	98
3000	1.50	91	102	103	106	95	93	92	87	105
	2.00	90	102	102	105	94	93	92	87	104
	6.00	91	102	101	98	90	89	89	82	99
3200	1.50	92	104	105	107	96	95	94	90	106
	2.00	92	104	104	106	96	94	94	89	106
	6.00	91	103	103	101	93	91	91	85	102
3400	2.00	93	105	106	108	98	96	95	91	108
	4.00	91	104	104	105	97	95	95	90	105
	8.00	93	105	106	101	93	91	92	86	103
3600	4.00	93	105	106	107	100	97	96	92	107
	6.00	92	105	106	105	98	96	95	90	106
	10.00	98	110	111	103	96	92	92	87	106
3800	4.00	94	106	108	109	102	98	97	94	109
	6.000	93	106	107	107	101	97	97	93	108
	10.00	95	107	109	105	97	94	94	89	106
4000	5.00	94	107	110	110	104	99	98	95	110
	12.00	98	110	113	107	99	95	95	90	108
4200	5.00	95	108	111	111	106	101	100	97	112
	12.00	97	109	112	108	101	97	96	93	109

165 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1100	1.00	73	77	73	73	74	68	61	52	77
1300	1.00	76	81	79	77	77	74	68	59	81
	1.50	77	80	77	74	75	72	65	57	79
1500	1.00	79	82	87	81	80	79	74	66	86
	2.00	81	83	82	76	76	76	69	61	82
1700	1.00	83	86	91	85	83	83	78	70	89
	2.00	84	87	87	82	80	81	75	67	87
1900	1.00	86	91	94	89	86	85	82	75	93
	2.00	85	89	91	87	84	84	80	72	91
	3.00	86	91	89	84	82	82	77	69	88
2100	1.00	88	94	97	94	89	88	85	78	96
	2.00	86	92	95	92	88	87	84	77	94
	4.00	90	96	93	88	83	83	80	70	91
2300	1.00	90	97	100	98	91	90	88	81	99
	2.00	88	96	98	96	90	89	87	80	98
	5.00	95	102	98	92	86	85	82	70	95

165 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
2500	1.00	91	100	102	102	93	92	90	84	102
	2.00	90	99	100	100	93	91	89	83	101
	5.00	91	100	99	95	89	88	86	79	97
2700	1.50	92	102	104	104	95	94	92	87	104
	2.00	92	102	103	104	95	93	92	86	104
	6.00	92	102	101	97	90	89	88	81	99
2900	1.50	94	105	106	108	97	95	94	89	107
	2.00	93	104	105	107	97	95	94	89	106
	6.00	93	104	103	101	93	92	91	85	102
3100	2.00	95	106	107	109	98	97	96	91	108
	4.00	93	105	105	106	98	96	95	90	106
	8.00	95	107	106	102	93	92	92	86	103
3300	4.00	95	107	107	108	99	98	97	92	108
	6.00	95	107	106	106	98	96	96	91	107
	10.00	99	111	110	103	95	93	93	87	106
3500	4.00	96	108	109	110	102	99	98	94	110
	6.00	95	108	108	108	101	99	98	93	109
	10.00	97	109	110	105	97	95	95	90	107
3700	5.00	97	109	110	111	104	101	100	96	111
	6.00	96	109	110	110	103	100	99	95	111
	12.00	98	111	112	106	99	96	96	91	108
3900	4.00	98	111	113	114	107	102	101	98	114
	6.00	97	110	112	112	106	102	101	97	112
	8.00	97	110	112	111	104	101	100	96	111

180 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1100	1.00	75	76	77	74	72	69	62	55	77
1300	1.00	79	78	81	80	76	76	71	63	82
	1.50	81	78	79	78	74	73	66	59	80
1500	1.00	81	84	85	84	81	80	77	69	87
	2.00	83	83	82	82	78	77	71	63	84
1700	1.00	84	89	88	88	84	83	81	74	91
	2.00	84	88	87	87	83	81	78	71	89
	3.00	91	93	85	85	81	79	74	66	87
1900	1.00	86	93	91	92	88	85	84	79	94
	2.00	85	92	90	91	87	84	83	76	93
	3.00	87	93	89	89	85	82	79	72	91
2100	1.00	88	97	94	95	91	88	87	83	97
	2.00	87	96	93	94	90	87	86	81	96
	4.00	89	97	92	91	88	84	82	74	93
2300	1.00	90	101	97	97	94	90	89	86	99
	2.00	89	99	96	97	93	89	89	85	99
	5.00	91	101	94	93	90	86	84	77	96
2500	1.50	91	103	99	100	96	91	91	89	102
	2.00	91	103	99	99	96	91	91	88	101
	6.00	93	105	97	96	93	88	87	79	98
2700	2.00	92	104	102	101	98	94	93	90	103
	4.00	91	103	100	100	97	92	92	88	102
	8.00	102	114	106	97	95	90	88	81	103
2900	2.00	94	106	104	102	100	96	95	92	105
	4.00	92	104	103	102	99	95	94	91	104
	8.00	95	107	103	98	97	92	91	84	102
3100	4.00	94	106	106	103	101	97	96	93	106
	6.00	94	106	106	102	100	96	94	91	105
	10.00	101	113	110	100	98	94	92	86	106

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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. Certified rating seal for sound performance does not apply to the CF.

180 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
3300	5.00	95	107	108	105	103	99	97	95	108
	6.00	95	107	108	105	103	98	96	94	108
	12.00	106	118	115	103	100	96	93	88	110
3500	5.00	96	108	110	107	105	100	98	96	110
	6.00	95	107	110	106	105	100	98	96	110
	12.00	99	111	112	104	102	98	95	90	108
3700	5.00	97	109	113	108	107	102	100	98	112
	6.00	97	109	112	108	106	102	99	98	111
	12.00	99	111	113	106	104	100	97	93	110
3900	5.00	98	110	115	110	108	104	101	100	113
	12.00	99	111	115	108	106	102	98	96	112

195 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1000	1.00	76	76	76	74	72	69	61	55	77
1200	1.00	80	78	82	80	76	76	71	63	83
	1.50	82	78	80	78	74	74	66	59	81
1400	1.00	83	84	86	85	81	81	78	70	88
	1.50	84	84	85	84	80	79	75	67	86
	2.00	85	84	83	83	79	78	72	64	85
1600	1.00	86	89	89	89	85	84	82	75	91
	2.00	86	89	88	88	84	82	79	71	90
	3.00	90	91	86	86	82	80	74	67	88
1800	1.00	88	94	93	93	89	87	85	79	95
	2.00	87	93	92	92	88	86	84	77	94
	4.00	96	99	91	89	85	82	78	71	92
2000	1.00	90	98	96	96	92	89	88	83	98
	2.00	89	97	95	95	91	88	87	82	97
	4.00	91	98	93	93	89	86	83	76	95
	5.00	98	104	95	92	89	85	81	74	95
2200	1.50	92	101	98	98	95	91	90	86	100
	2.00	91	101	98	98	94	91	90	86	100
	4.00	92	101	96	97	93	89	88	81	98
	6.00	99	108	98	95	91	87	85	77	98
2400	1.50	94	105	101	101	97	93	93	90	103
	2.00	93	104	100	101	97	93	92	89	103
	4.00	93	104	99	100	96	92	91	86	102
	6.00	95	106	98	98	94	90	89	81	100
2600	2.00	95	107	103	103	99	95	95	92	105
	4.00	93	105	102	102	98	94	94	90	104
	6.00	95	107	101	100	97	93	92	86	103
	8.00	99	111	103	99	96	91	90	83	102
2800	4.00	95	107	105	104	101	96	96	93	106
	6.00	96	107	104	103	100	95	94	90	105
	10.00	105	117	110	100	98	93	91	85	107
3000	4.00	97	108	108	105	103	99	97	95	108
	6.00	96	108	107	104	102	98	97	93	107
	10.00	99	111	107	101	100	96	94	88	106
3200	5.00	97	109	110	107	105	100	99	96	110
	6.00	97	109	109	107	104	100	98	96	110
	12.00	102	114	111	103	102	97	95	90	108
3400	5.00	99	111	112	108	107	102	100	98	112
	6.00	98	110	112	108	106	102	100	98	111
	12.00	101	112	112	106	104	100	97	93	110

210 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
800	1.00	81	78	70	70	69	62	55	51	73
1000	1.00	77	78	79	77	74	72	65	57	79
	1.50	85	79	77	75	73	69	61	55	78
1200	1.00	82	81	85	83	79	79	75	66	86
	1.50	84	81	83	81	77	77	71	62	84
	2.00	88	82	82	80	76	75	67	60	82
1400	1.00	86	87	89	88	84	83	80	72	90
	2.00	87	86	87	86	82	81	76	68	88
	3.00	99	94	85	85	80	78	72	65	87
1600	1.00	89	92	92	92	88	86	84	77	94
	2.00	88	91	91	91	86	85	82	75	93
	3.00	90	92	89	89	85	83	78	71	91
	4.00	102	101	89	88	84	81	76	69	91
1800	1.00	91	97	95	95	91	89	88	82	97
	2.00	90	96	95	95	90	88	87	80	97
	3.00	91	96	93	93	89	87	84	77	95
	4.00	92	96	92	92	88	85	81	74	94
2000	1.50	93	100	98	98	94	91	90	85	100
	2.00	92	100	98	98	94	91	90	85	100
	3.00	92	99	97	97	93	90	89	83	99
	4.00	93	100	96	96	92	89	87	80	98
	6.00	103	109	98	94	91	87	83	76	98
2200	1.50	95	104	101	101	97	93	93	89	103
	2.00	94	104	100	101	97	93	92	88	103
	3.00	93	103	100	100	96	93	92	87	102
	4.00	94	103	99	100	95	92	91	85	101
	6.00	96	105	98	97	94	90	88	80	100
2400	2.00	96	107	103	103	99	95	95	92	105
	4.00	95	106	102	103	98	94	94	90	104
	6.00	96	107	101	101	97	93	92	86	103
	8.00	101	112	103	99	96	91	90	82	103
2600	4.00	96	108	105	105	101	97	96	93	107
	6.00	97	109	104	104	100	95	95	90	106
	8.00	99	110	104	102	99	94	93	87	104
	10.00	107	119	109	101	98	93	92	85	107
2800	5.00	98	109	107	106	103	99	98	95	108
	6.00	98	109	107	106	103	98	97	94	108
	8.00	99	111	107	104	101	97	96	91	107
	10.00	100	112	107	103	100	96	95	88	106
	12.00	111	122	114	102	100	96	93	87	110

225 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
750	1.00	81	79	70	71	69	62	56	52	73
950	1.00	78	78	80	78	75	73	66	58	80
	1.50	84	79	78	76	73	69	62	55	78
1150	1.00	83	83	86	84	80	80	76	67	87
	1.50	84	82	85	82	79	78	72	64	85
	2.00	86	81	83	81	77	76	68	60	83
1350	1.00	88	88	90	89	85	84	82	73	91
	2.00	89	87	89	87	83	82	77	69	89
	3.00	96	91	86	86	81	80	73	66	88
1550	1.00	91	94	93	93	89	88	86	79	95
	2.00	90	93	93	92	88	87	84	77	94
	3.00	92	93	91	90	86	85	80	73	92
	4.00	99	98	89	90	85	83	77	70	92

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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. Certified rating seal for sound performance does not apply to the CF.

225 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1750	1.00	94	98	97	97	93	90	89	83	99
	2.00	92	97	96	96	92	90	88	82	98
	3.00	93	97	95	95	91	89	86	79	97
	4.00	94	98	94	94	90	87	84	76	96
	5.00	100	102	94	93	89	86	82	74	95
1950	1.50	95	102	100	100	96	93	92	87	102
	2.00	95	102	99	99	95	92	91	86	101
	3.00	94	101	99	99	95	92	91	85	101
	4.00	95	101	98	98	94	91	89	82	100
	5.00	96	102	97	97	93	90	87	80	99
	6.00	100	105	97	96	92	89	85	78	98
2150	2.00	97	106	102	102	98	95	94	90	104
	3.00	96	105	102	102	98	94	94	89	104
	4.00	96	104	101	101	97	94	93	88	103
	5.00	97	105	101	100	96	93	91	85	102
	6.00	98	106	100	99	96	92	90	83	101
	8.00	108	115	104	98	95	91	88	81	103
2350	2.00	99	109	105	105	101	97	96	93	107
	3.00	98	108	104	105	101	97	96	92	106
	4.00	97	108	104	105	100	96	96	92	106
	5.00	97	108	103	104	99	96	95	90	105
	6.00	98	109	103	103	99	95	94	88	105
	8.00	100	110	102	101	98	93	92	84	104
2550	4.00	99	110	106	107	103	98	98	95	108
	6.00	99	110	106	106	102	97	97	93	108
	8.00	100	112	105	104	101	96	96	89	107
	10.00	103	114	106	103	100	95	94	86	106

245 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
700	1.00	84	76	73	73	68	66	59	51	74
900	1.00	82	85	80	78	76	74	69	62	81
	1.50	83	83	78	76	73	71	66	58	79
1100	1.00	87	91	89	84	82	81	77	70	88
	1.50	87	90	87	82	80	79	75	68	86
	2.00	86	88	85	81	78	76	73	65	84
1300	1.00	91	97	97	89	86	85	83	76	94
	1.50	90	96	96	88	86	84	82	76	93
	2.00	90	95	95	87	84	83	80	74	92
	3.00	89	93	92	85	82	80	76	70	89
1500	1.00	94	101	104	93	90	89	87	82	99
	1.50	93	101	103	93	90	88	86	81	98
	2.00	93	100	102	92	89	88	86	80	98
	3.00	92	99	101	91	87	85	83	78	96
	4.00	91	98	99	89	86	83	80	75	94
1700	1.50	96	105	106	97	93	91	90	86	101
	2.00	95	104	105	96	93	91	90	85	101
	3.00	94	104	104	95	92	90	88	84	100
	4.00	94	103	103	94	90	88	86	81	98
	5.00	94	102	101	92	89	86	84	79	97
	6.00	101	109	102	93	90	86	84	79	99
1900	1.50	98	109	108	100	96	94	93	90	104
	2.00	98	108	107	100	96	94	93	89	104
	3.00	97	107	107	99	95	93	92	88	103
	4.00	96	107	106	98	94	92	91	87	102
	5.00	96	106	104	97	93	91	89	85	101
	6.00	96	106	103	96	92	89	88	83	100
2100	2.00	100	110	110	104	99	97	96	92	107
	3.00	99	110	110	104	98	96	95	92	106
	4.00	98	109	109	103	98	96	94	91	106
	5.00	98	109	108	102	97	95	93	90	105
	6.00	98	109	107	101	96	93	92	88	104
	8.00	97	108	105	99	94	91	89	85	102

245 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
2300	4.00	100	111	112	108	101	98	97	94	109
	5.00	100	111	112	107	100	98	96	93	109
	6.00	100	110	111	106	100	97	95	92	108
	8.00	99	110	110	105	98	95	93	90	106
	10.00	101	112	109	104	97	94	92	88	106
2500	5.00	102	112	114	111	103	100	99	96	112

270 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
700	1.00	80	79	76	75	72	68	62	54	77
800	1.00	83	85	80	78	76	74	68	60	81
	1.50	85	84	78	77	73	71	65	57	79
900	1.00	86	89	83	81	79	78	74	66	85
	2.00	90	87	81	79	75	73	68	60	81
1000	1.00	89	92	87	84	82	81	78	70	88
	2.00	88	89	84	81	78	77	73	65	85
1100	1.00	91	95	92	87	85	84	81	74	91
	2.00	90	93	89	85	82	81	77	70	89
	3.00	96	93	89	84	81	78	74	67	87
1200	1.00	93	98	96	90	87	86	83	77	94
	2.00	92	96	94	88	86	84	81	74	92
	3.00	91	94	92	86	83	81	78	70	90
1300	1.00	95	100	100	92	89	88	86	80	97
	2.00	93	99	99	91	88	87	84	78	96
	4.00	96	99	96	88	85	82	79	72	92
1400	1.00	96	103	104	94	91	90	88	82	99
	2.00	95	102	103	94	91	89	87	81	98
	5.00	102	104	100	91	87	84	81	75	96
1500	1.00	98	105	107	96	93	92	90	85	102
	2.00	97	104	106	96	93	91	89	84	101
	5.00	95	102	102	92	88	86	83	77	97
1600	1.50	98	107	108	98	95	93	92	87	103
	2.00	98	106	107	98	94	93	91	86	103
	6.00	99	106	103	94	90	87	85	79	99
1700	1.50	100	109	109	100	96	95	93	89	105
	2.00	99	108	109	100	96	94	93	88	104
	6.00	97	106	104	95	92	89	87	82	100
1800	2.00	100	110	110	101	98	96	95	90	106
	4.00	99	109	108	100	96	94	93	89	104
	8.00	105	113	106	98	94	90	88	83	103
1900	2.00	102	112	111	103	99	97	96	92	107
	4.00	100	110	110	102	98	96	95	91	106
	8.00	99	109	106	98	95	92	90	85	102
2000	4.00	101	112	111	104	100	97	97	93	108
	10.00	107	118	108	101	97	93	91	87	106
2100	4.00	102	113	113	106	101	99	98	94	109
	10.00	102	113	109	102	98	94	92	88	106
2200	6.00	103	113	113	108	102	99	98	95	110
	12.00	108	119	112	105	100	96	93	90	109

300 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
600	1.00	80	77	75	74	71	67	60	52	76
700	1.00	83	84	79	78	76	73	67	59	81
	1.50	87	83	78	77	73	70	64	56	79
800	1.00	86	91	83	81	79	78	73	65	85
	1.50	85	88	81	79	77	75	69	61	82
900	1.00	90	93	87	85	83	82	78	70	89
	2.00	89	90	84	82	79	77	73	64	85

300 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1000	1.00	94	96	91	88	86	85	81	74	92
	2.00	92	94	89	86	83	82	78	70	89
	3.00	97	92	88	85	81	79	75	67	88
1100	1.00	96	99	96	91	88	88	84	77	95
	2.00	94	97	94	89	87	86	82	75	93
	3.00	94	95	92	87	84	83	79	71	91
1200	1.00	97	102	100	93	91	90	87	80	98
	2.00	96	101	99	92	90	89	86	79	97
	4.00	96	98	95	89	86	84	80	73	93
1300	1.00	99	104	104	96	93	92	89	83	100
	2.00	98	103	103	95	92	91	88	82	99
	5.00	101	103	99	92	88	86	82	76	96
1400	1.50	100	106	107	98	94	93	91	85	103
	2.00	99	106	106	97	94	93	91	85	102
	6.00	104	107	103	94	90	88	84	78	99
1500	1.50	101	108	110	100	96	95	93	88	105
	2.00	101	108	110	99	96	95	93	87	105
	6.00	99	105	105	95	92	89	87	81	100
1600	2.00	102	110	111	101	98	96	95	90	106
	4.00	101	109	110	100	97	95	93	88	105
	8.00	108	113	107	98	94	91	88	83	103
1700	2.00	103	112	112	103	99	98	96	92	108
	4.00	102	111	111	102	99	97	95	91	107
	8.00	102	110	107	98	95	92	90	85	103
1800	4.00	103	113	112	104	100	98	97	93	108
	6.00	103	112	111	102	99	96	95	90	107
	10.00	109	118	109	101	98	94	91	87	107
1900	4.00	105	115	113	106	102	100	99	95	110
	6.00	104	114	112	105	101	98	97	93	109
	10.00	104	114	109	101	98	95	93	88	106
2000	5.00	105	115	114	107	103	101	100	96	111
	6.00	105	115	114	107	102	100	99	95	110
	12.00	109	120	111	104	100	96	94	90	109

330 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
550	1.00	79	77	76	75	71	67	60	52	76
650	1.00	84	85	81	79	77	74	67	59	82
	1.50	86	83	79	77	74	71	64	56	80
750	1.00	88	93	85	83	81	79	74	66	87
	1.50	87	91	83	81	79	76	71	62	84
	2.00	89	90	82	80	77	74	68	60	83
850	1.00	92	96	89	86	85	83	79	71	90
	1.50	91	95	88	85	83	82	77	69	89
	2.00	91	93	86	84	81	79	74	66	87
950	1.00	96	98	92	89	88	87	83	75	94
	2.00	95	96	90	88	85	84	80	72	91
	3.00	94	94	88	85	82	81	76	68	89
1050	1.00	98	101	97	92	90	90	86	79	97
	2.00	97	100	95	91	89	88	85	77	95
	4.00	102	98	93	89	85	83	79	71	92
1150	1.00	100	104	101	95	93	92	89	82	100
	2.00	99	103	100	94	92	91	88	81	99
	4.00	98	100	97	91	88	86	83	75	95
	5.00	106	102	97	92	88	86	82	74	95
1250	1.00	102	107	105	98	95	94	91	85	102
	2.00	101	106	104	97	94	93	90	84	101
	5.00	99	102	100	93	90	88	84	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 LW_i and LW_iA 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. Certified rating seal for sound performance does not apply to the CF.

330 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1350	1.50	103	109	108	100	97	95	93	87	104
	2.00	103	108	108	99	96	95	93	87	104
	6.00	101	105	103	95	92	89	86	80	99
1450	2.00	104	110	111	101	98	97	95	89	107
	4.00	103	109	110	100	97	95	93	87	105
	8.00	110	112	108	98	95	91	88	82	104
1550	2.00	105	113	114	103	100	99	97	92	109
	4.00	104	111	113	103	99	97	96	90	108
	8.00	103	110	109	99	95	93	90	84	104
1650	4.00	105	113	114	105	101	99	98	93	109
	6.00	105	113	112	103	99	97	96	91	108
	10.00	110	116	111	102	98	94	92	87	107
1750	4.00	107	115	115	106	103	101	99	95	111
	6.00	106	115	114	105	102	99	98	93	110
	10.00	105	113	111	102	99	96	94	89	107
1850	5.00	107	117	116	108	104	102	101	97	112
	8.00	107	116	114	106	102	100	98	94	110
	10.00	106	115	113	104	101	98	96	92	109

365 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
500	1.00	79	78	77	75	72	67	60	52	77
600	1.00	85	85	82	80	78	75	68	60	83
	1.50	85	83	80	78	75	72	64	56	80
700	1.00	90	94	86	84	83	81	75	67	88
	1.50	89	92	84	82	81	78	72	64	86
	2.00	88	90	83	80	78	75	69	61	84
800	1.00	94	98	91	88	87	85	80	72	92
	1.50	93	97	90	87	85	84	79	71	91
	2.00	93	96	88	86	84	82	76	68	89
900	1.00	98	101	94	91	90	89	84	77	96
	2.00	97	99	93	90	88	87	82	74	94
	3.00	96	97	90	88	85	83	78	70	91
1000	1.00	101	103	98	94	92	92	88	80	99
	2.00	100	102	97	93	91	90	87	79	97
	3.00	99	100	95	92	89	88	84	76	95
	4.00	99	98	93	90	87	85	81	73	93
1100	1.00	103	106	102	97	95	94	91	84	101
	2.00	102	105	101	96	94	93	90	83	101
	4.00	101	103	98	94	91	89	86	78	97
	5.00	102	102	97	93	89	88	84	76	96
1200	1.50	105	108	106	99	97	96	93	86	104
	2.00	104	108	106	99	96	95	92	86	103
	4.00	103	106	104	97	94	93	90	83	101
	6.00	104	105	101	95	92	90	86	79	99
1300	1.50	106	111	110	102	99	98	95	89	107
	2.00	106	111	110	101	99	97	95	89	106
	4.00	104	109	108	100	97	96	93	87	105
	6.00	104	107	106	98	95	93	90	83	102
1400	2.00	107	113	113	104	101	99	97	91	109
	4.00	106	112	112	103	100	98	96	90	108
	6.00	105	110	110	101	98	96	93	87	106
	8.00	105	110	108	99	96	93	90	84	104
1500	4.00	107	114	115	105	102	100	98	93	110
	6.00	107	113	114	104	100	98	96	91	109
	8.00	106	112	112	102	98	96	94	88	107
	10.00	111	115	112	102	98	95	92	86	107
1600	4.00	109	116	117	107	103	102	100	95	112
	6.00	108	115	116	106	102	101	99	94	111
	8.00	108	115	114	104	101	99	97	91	109
	10.00	107	114	113	103	99	97	95	89	108

402 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
450	1.00	79	78	77	75	72	67	59	51	77
550	1.00	86	85	82	81	79	75	68	60	84
	1.50	84	83	80	78	76	72	64	56	81
650	1.00	91	94	87	86	84	82	76	68	89
	1.50	90	92	86	84	82	79	73	65	87
	2.00	89	90	84	82	80	77	70	62	85
750	1.00	96	101	92	90	88	86	81	73	94
	2.00	94	98	90	87	85	83	78	70	91
	3.00	96	97	88	86	83	80	74	66	89
850	1.00	100	103	96	93	91	90	86	78	97
	2.00	99	102	94	92	90	88	84	76	96
	3.00	98	99	92	90	87	85	80	72	93
	4.00	103	99	92	90	86	84	79	70	93
950	1.00	104	105	99	96	94	93	90	82	100
	2.00	103	104	98	95	93	92	88	80	99
	3.00	102	103	97	94	91	90	86	78	98
	4.00	101	101	95	92	89	88	83	75	96
1050	1.50	106	108	103	98	96	96	92	85	103
	2.00	105	107	103	98	96	95	92	84	102
	3.00	104	106	102	97	95	94	91	83	101
	4.00	104	105	100	96	93	92	88	81	100
	6.00	109	104	99	95	91	89	85	77	98
1150	1.50	107	111	107	101	99	98	95	88	106
	2.00	107	110	107	101	98	98	95	88	105
	3.00	106	109	106	100	98	97	94	87	105
	4.00	106	109	105	99	97	96	92	85	104
	6.00	105	106	103	97	94	92	89	81	101
1250	2.00	109	113	111	103	101	100	97	91	108
	3.00	108	112	110	103	100	99	96	90	108
	4.00	107	112	110	103	100	98	96	89	107
	6.00	107	110	108	101	97	96	93	86	105
	8.00	109	110	106	99	96	94	90	83	103
1350	4.00	109	114	114	105	102	101	98	92	110
	6.00	108	113	112	104	100	99	96	90	108
	8.00	108	112	110	102	99	97	94	87	106
	10.00	114	115	111	102	98	96	92	86	107
1450	4.00	111	117	117	107	104	102	100	95	112
	6.00	110	116	116	106	103	101	99	93	111
	8.00	109	115	115	105	101	99	97	91	110
	10.00	109	114	113	103	100	97	95	89	108

445 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
400	1.00	78	78	78	75	72	66	58	51	77
500	1.00	86	84	83	81	80	76	68	60	84
	1.50	84	82	81	79	77	72	64	56	81
600	1.00	93	93	88	87	86	83	76	68	90
	1.50	91	92	87	85	84	81	74	66	88
	2.00	90	90	85	83	81	78	71	62	86
700	1.00	98	101	93	91	90	88	82	74	95
	2.00	96	99	91	89	87	85	79	71	93
	3.00	95	96	89	87	84	81	75	67	90
800	1.00	102	105	97	95	93	92	87	79	99
	2.00	101	104	96	94	92	90	85	77	98
	3.00	100	102	94	92	89	87	82	74	95
	4.00	101	101	93	90	87	85	80	71	94
900	1.00	106	108	101	98	96	95	91	83	102
	2.00	105	107	100	97	95	94	90	82	101
	3.00	104	106	99	96	94	92	88	80	100
	4.00	103	104	97	94	92	90	86	77	98
	5.00	104	103	96	93	90	88	84	75	97

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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. Certified rating seal for sound performance does not apply to the CF.

445 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1000	1.50	108	110	104	100	98	98	94	86	105
	2.00	108	109	104	100	98	97	94	86	104
	3.00	107	108	103	99	97	96	93	85	104
	4.00	107	107	102	98	96	95	91	83	102
	5.00	106	106	100	97	94	93	89	81	101
	6.00	106	105	99	96	93	91	87	79	99
1100	2.00	110	112	108	103	101	100	97	89	107
	3.00	109	112	108	102	100	99	96	89	107
	4.00	109	111	107	102	99	98	95	88	106
	5.00	108	110	106	101	98	97	93	86	105
	6.00	108	109	105	100	97	95	92	84	104
	8.00	113	109	104	100	96	94	90	82	103
1200	4.00	110	114	111	105	102	101	98	91	109
	5.00	110	113	111	104	101	100	97	90	108
	6.00	110	113	110	103	100	99	96	89	107
	8.00	109	111	108	101	98	96	93	86	105
	10.00	118	114	109	103	98	96	92	85	106
1300	4.00	112	117	115	107	104	103	100	94	112
	5.00	112	116	115	107	104	103	100	94	111
	6.00	111	116	114	106	103	102	99	93	111
	8.00	111	115	113	105	102	100	97	90	109
	10.00	111	113	111	103	100	98	95	88	107

490 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
350	1.00	78	77	78	74	71	65	57	50	76
450	1.00	87	84	83	82	80	75	68	60	84
	1.50	85	82	81	79	77	72	64	56	81
550	1.00	93	92	89	88	87	83	76	68	91
	1.50	92	91	88	86	85	81	74	66	89
	2.00	90	89	86	84	82	79	71	63	87
650	1.00	99	101	94	92	91	89	82	75	96
	2.00	97	99	92	90	89	86	80	72	94
	3.00	95	96	90	88	86	82	76	67	91
750	1.00	104	108	98	96	95	93	88	80	100
	2.00	102	106	98	95	94	92	86	78	99
	3.00	101	105	96	93	91	89	84	75	97
	4.00	100	103	94	91	89	86	81	72	95
850	1.50	107	110	102	99	97	96	92	84	103
	2.00	107	109	101	99	97	96	91	83	103
	3.00	106	108	101	98	96	94	90	82	102
	4.00	105	107	99	96	94	92	87	79	100
	5.00	104	105	97	95	92	90	85	77	98
	6.00	111	106	99	96	92	90	85	76	99
950	1.50	111	112	105	102	100	99	96	88	106
	2.00	110	111	105	102	100	99	95	87	106
	3.00	109	111	104	101	99	98	94	86	105
	4.00	109	110	103	100	98	97	93	85	104
	5.00	109	108	102	99	97	95	91	83	103
	6.00	108	107	101	98	95	94	89	81	102
1050	2.00	113	114	109	105	102	102	98	91	109
	3.00	112	114	109	104	102	101	98	90	108
	4.00	111	113	108	104	101	100	97	90	108
	5.00	111	112	107	103	100	99	96	88	107
	6.00	111	111	106	102	99	98	94	86	106
	8.00	110	109	104	100	97	95	91	83	104
1150	4.00	113	116	113	107	104	103	100	93	111
	5.00	113	116	112	106	104	102	99	92	111
	6.00	113	115	111	105	103	101	98	91	110
	8.00	112	114	110	104	101	99	96	88	108
	10.00	114	113	109	103	100	98	94	86	107

490 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
1250	6.00	114	118	116	109	106	104	102	95	113
	8.00	114	117	115	107	104	103	100	93	112
	10.00	113	116	113	106	103	101	98	91	110
	12.00	116	117	113	105	102	100	96	89	110

540 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								LwiA
		1	2	3	4	5	6	7	8	
350	1.00	81	80	80	78	74	68	60	52	79
400	1.00	87	84	83	82	79	74	66	58	84
	1.50	86	82	82	79	77	71	63	55	81
450	1.00	91	87	86	85	84	80	72	64	88
	2.00	89	85	84	81	79	74	66	58	84
500	1.00	94	91	89	88	87	84	76	68	91
	2.00	91	88	86	84	83	79	71	63	87
550	1.00	97	96	92	91	90	87	80	72	94
	2.00	95	93	90	88	87	83	76	68	91
	3.00	95	93	89	86	84	80	73	65	89
600	1.00	100	100	95	93	92	89	83	75	97
	2.00	98	98	93	91	90	87	80	72	95
	3.00	96	96	91	89	87	84	76	68	92
650	1.00	103	104	97	95	94	92	86	78	99
	2.00	101	103	96	94	93	90	84	76	98
	4.00	101	100	94	91	88	85	78	70	94
700	1.00	105	108	100	97	96	94	88	81	101
	2.00	104	107	99	96	95	93	87	79	100
	4.00	102	103	95	93	91	88	82	74	96
750	1.00	107	111	102	99	98	96	91	83	104
	2.00	106	110	101	98	97	95	90	82	103
	5.00	104	106	97	94	92	89	83	75	98
800	1.50	109	112	103	101	99	98	93	85	105
	2.00	108	111	103	100	99	97	92	84	104
	6.00	108	107	99	96	93	91	85	77	100
850	1.50	111	113	105	102	101	99	95	87	107
	2.00	110	113	105	102	100	99	94	87	106
	6.00	108	108	101	98	95	93	88	80	101
900	2.00	112	114	106	103	102	101	96	89	108
	4.00	111	112	105	102	100	99	95	87	106
	8.00	115	110	103	100	96	94	89	81	103
950	2.00	114	115	108	105	103	102	98	91	109
	4.00	113	114	107	104	102	101	97	89	108
	8.00	112	110	103	100	97	96	91	83	104
1000	4.00	114	115	109	106	103	103	99	91	110
	10.00	120	112	106	103	99	97	93	85	106
1050	4.00	115	117	112	107	105	104	100	93	111
	10.00	115	113	107	103	100	98	94	86	107
1100	5.00	116	118	113	108	106	105	101	94	112
	12.00	121	116	111	106	102	99	96	88	109

600 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
300	1.00	79	79	80	77	72	66	58	50	78
350	1.00	86	83	83	82	79	73	65	57	83
400	1.00	93	87	86	85	84	79	71	63	88
	1.50	91	85	84	83	81	75	67	59	85
	2.00	91	86	84	81	79	74	65	57	84
450	1.00	96	91	90	89	88	84	76	68	92
	2.00	92	88	87	85	83	79	70	62	88

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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. Certified rating seal for sound performance does not apply to the CF.

600 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
500	1.00	98	95	93	92	91	87	80	72	95
	2.00	96	93	91	89	88	84	76	68	92
	3.00	94	91	90	87	85	81	73	65	90
550	1.00	101	100	96	94	93	90	83	75	98
	2.00	100	98	94	93	92	88	81	73	96
	3.00	97	95	92	90	88	85	77	69	93
600	1.00	104	104	98	97	96	93	86	79	100
	2.00	103	103	98	96	94	92	85	77	99
	4.00	100	99	94	92	90	86	79	71	95
650	1.00	106	108	101	99	98	95	89	81	103
	2.00	105	107	100	98	97	94	88	80	102
	5.00	105	103	97	94	92	88	82	73	97
700	1.00	109	111	103	101	100	98	92	84	105
	2.00	108	110	102	100	99	97	91	83	104
	5.00	105	106	99	96	94	91	85	77	99
750	1.50	111	114	105	102	101	99	94	86	107
	2.00	110	114	104	102	100	99	93	86	106
	6.00	107	109	100	98	95	93	87	78	101
800	1.50	113	115	107	104	102	101	96	88	108
	2.00	112	115	106	104	102	101	96	88	108
	6.00	110	111	103	100	98	96	90	82	104
850	2.00	114	116	108	105	104	102	98	90	110
	4.00	113	115	107	104	103	101	97	89	109
	8.00	112	111	103	101	98	96	91	82	104
900	4.00	115	116	109	106	104	103	99	91	110
	6.00	114	115	108	105	102	101	96	88	108
	10.00	120	113	106	103	100	97	93	84	106
950	4.00	117	117	111	108	106	105	101	93	112
	6.00	116	116	110	107	104	103	99	91	110
	10.00	116	113	107	104	101	99	94	86	107
1000	5.00	118	118	112	109	107	106	102	94	113
	10.00	117	115	109	106	103	101	97	89	109
	12.00	122	115	109	106	102	100	96	88	109

660 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
300	1.00	83	82	82	80	76	70	62	54	81
350	1.00	91	87	86	85	83	77	69	61	87
	1.50	89	84	84	82	79	73	65	57	84
400	1.00	97	91	90	89	87	83	75	67	91
	1.50	95	89	88	87	85	80	72	64	89
	2.00	93	87	86	85	82	77	69	61	87
450	1.00	99	95	93	92	91	87	79	71	95
	2.00	97	92	91	89	88	83	75	67	92
	3.00	96	92	90	87	85	80	72	64	90
500	1.00	102	98	96	95	94	91	83	75	98
	2.00	100	97	95	93	92	89	81	73	96
	3.00	97	94	92	90	89	85	77	69	93
550	1.00	105	103	99	97	97	94	86	79	101
	2.00	103	102	98	96	95	92	85	77	100
	4.00	100	98	94	92	90	87	79	71	95
600	1.00	107	107	101	100	99	96	90	82	103
	2.00	106	106	101	99	98	95	88	80	103
	4.00	104	103	98	96	94	91	84	76	99
	5.00	104	102	97	95	92	89	82	74	98
650	1.50	109	110	104	101	100	98	92	84	105
	2.00	109	110	103	101	100	98	91	84	105
	4.00	107	108	101	99	97	94	88	80	102
	6.00	108	106	100	97	94	91	85	76	100
700	1.50	112	114	106	103	102	100	95	87	108
	2.00	111	114	105	103	102	100	94	86	107
	4.00	110	112	104	102	100	98	92	84	105
	6.00	108	109	102	99	97	94	88	80	102

660 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								LwiA
		1	2	3	4	5	6	7	8	
750	2.00	114	117	108	105	104	102	97	89	109
	4.00	112	116	107	104	102	100	95	87	108
	6.00	111	114	104	102	100	97	92	84	106
	8.00	113	113	104	101	98	95	89	81	104
800	2.00	116	118	109	107	105	104	99	91	111
	4.00	115	117	109	106	104	103	98	90	110
	8.00	113	114	105	102	100	98	92	84	106
850	4.00	117	118	111	108	106	104	100	92	112
	6.00	116	117	109	106	104	103	98	90	110
	10.00	117	115	107	104	101	99	94	85	107
900	5.00	118	119	112	109	107	106	102	94	113
	6.00	118	119	111	108	106	105	101	93	112
	12.00	122	116	109	106	102	100	96	87	109

730 CF

RPM	SP	SOUND POWER re 10-12 WATTS OCTAVE BANDS								Lw_iA
		1	2	3	4	5	6	7	8	
250	1.00	80	81	80	78	73	66	58	50	79
300	1.00	87	86	85	84	81	74	66	58	85
	1.50	85	84	83	81	77	70	62	54	82
350	1.00	96	90	89	89	87	81	73	65	91
	1.50	94	88	87	86	84	78	70	62	88
	2.00	92	87	86	84	81	75	67	58	86
400	1.00	101	95	93	92	91	86	78	70	95
	1.50	99	94	92	91	90	85	77	69	94
	2.00	98	92	91	89	87	82	74	66	92
450	1.00	103	98	96	95	94	90	83	75	98
	2.00	101	97	95	94	92	88	80	72	97
	3.00	99	94	93	91	89	84	76	68	93
500	1.00	105	102	99	98	98	94	86	79	102
	2.00	104	101	98	97	96	93	85	77	100
	4.00	100	97	95	93	91	87	79	70	96
550	1.00	108	106	102	101	100	97	90	82	104
	2.00	107	105	101	100	99	96	89	81	103
	4.00	105	102	99	97	95	92	84	76	100
	5.00	104	101	98	95	93	90	82	74	98
600	1.50	111	110	104	103	102	99	92	85	106
	2.00	110	110	104	102	101	98	92	84	106
	4.00	108	108	102	100	99	96	89	81	104
	6.00	107	105	100	98	96	92	85	77	101
650	1.50	113	114	107	105	104	101	95	87	109
	2.00	113	113	107	104	103	101	95	87	108
	4.00	111	112	105	103	102	99	93	85	107
	6.00	110	110	103	101	99	96	89	81	104
700	2.00	115	117	109	106	105	103	97	90	111
	4.00	114	116	108	106	104	102	96	88	109
	6.00	113	114	106	104	102	99	93	85	107
	8.00	112	112	104	102	99	96	90	82	105
750	4.00	116	119	110	107	106	104	99	91	112
	6.00	115	118	109	106	104	102	97	89	110
	8.00	114	116	107	104	102	100	94	86	108
	10.00	117	116	107	104	101	98	92	84	108
800	4.00	118	121	112	109	108	106	101	93	114
	6.00	117	120	111	108	106	105	100	92	112
	8.00	117	118	110	107	105	103	97	89	111
	10.00	116	117	108	105	103	101	95	87	109
850	1.50	121	123	115	112	110	109	105	97	116

The sound power level ratings shown are in decibels referred to 10^{-12} watts calculated per AMCA Standard 301. Values shown are for LW_i and LW_iA 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. Certified rating seal for sound performance does not apply to the CF.

LOREN COOK COMPANY

2015 E. DALE STREET

SPRINGFIELD, MO 65803-4637

417.869.6474

FAX 417.862.3820

lorencook.com

CA/CF - January 2009