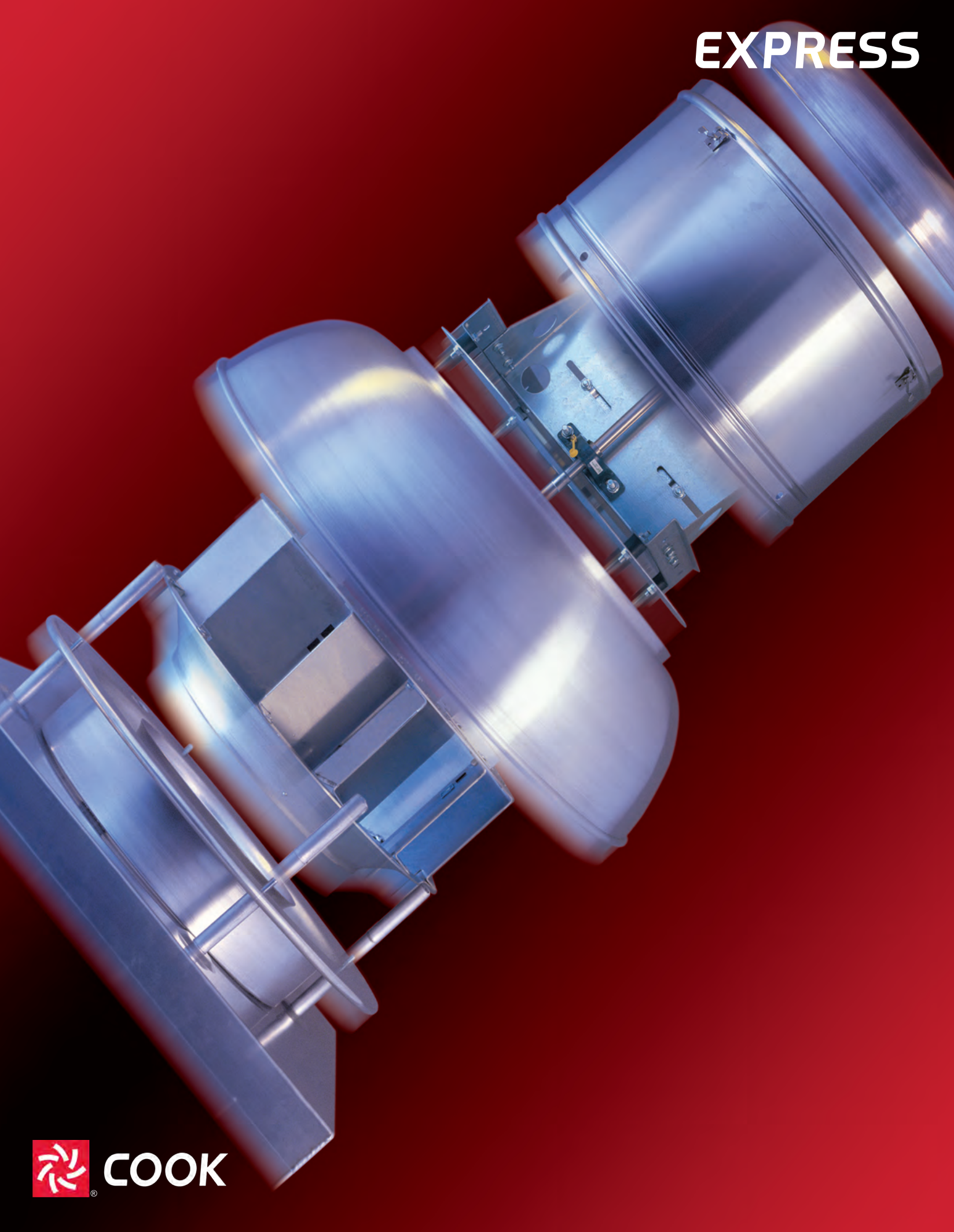
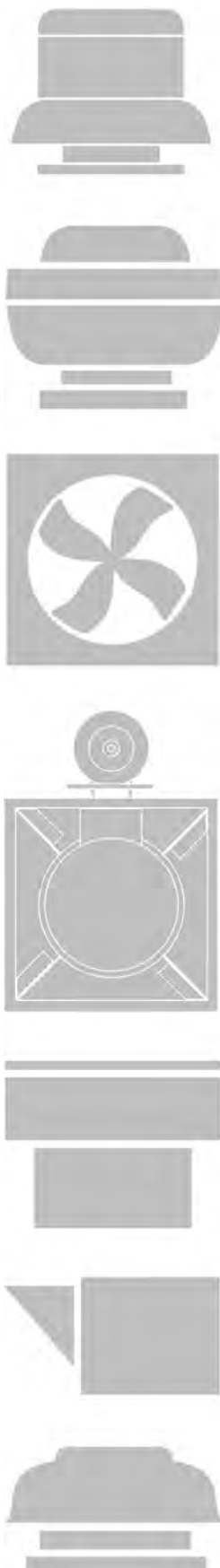


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ACED / ACEDEC Specifications and Dimensions

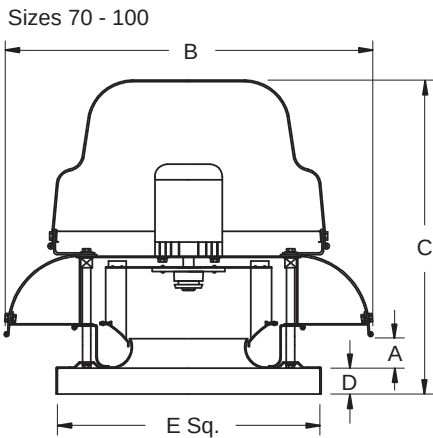
Downblast Centrifugal Exhaust Ventilator Roof Mounted Direct Drive



LOREN COOK COMPANY certifies that the ACED and ACED-EC 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 ACED and ACED-EC are furnished standard with UL 705 and cUL 705 listings (Power Ventilator/ZACT).



Description: Fan shall be a spun aluminum, roof mounted, direct driven, downblast centrifugal exhaust ventilator.

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: Fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The spun aluminum structural components shall be constructed of minimum 16 gauge marine alloy aluminum, bolted to a rigid aluminum support structure. The aluminum base shall have continuously welded curb cap corners for maximum leak protection. The discharge baffle shall have a rolled bead for added strength. An integral conduit chase shall be provided through the curb cap and into the motor compartment to facilitate wiring connections. The motor shall be enclosed in a weather-tight compartment, separated from the exhaust airstream. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM and static pressure. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel: Wheel shall be centrifugal backward inclined, constructed of 100% aluminum, including a precision machined cast aluminum hub. An aerodynamic aluminum inlet cone shall be provided for maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

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

Motor EC - Motor shall be an electronically commutated motor rated for continuous duty and furnished either with internally mounted potentiometer speed controller or with leads for connection to 0-10 VDC external controller.

Product: Fan shall be model ACED or ACED-EC as manufactured by LOREN COOK COMPANY of Springfield, Missouri.

Dimensions

Size	A	B	C	D	E Sq.	Roof Opening Square*	Ship. Wt.
70	1-3/4	13-5/8	13-13/16	2	18	13-1/2	20
90	2-1/2	18-3/4	16-13/16	2	18	13-1/2	28
100	2-1/2	18-3/4	16-13/16	2	18	13-1/2	30
101	2-3/8	23-9/16	21-1/8	2	18	13-1/2	30
120	1-7/16	28-7/16	26-9/16	2	20	15-1/2	67
135	1-15/16	28-7/16	27-1/16	2	20	15-1/2	72
150	2-13/16	32-7/8	28-11/16	2	24	19-1/2	87
165	3-5/16	32-7/8	29-3/16	2	24	19-1/2	90
180	3-5/16	37-11/16	33-15/16	3	30	25-1/2	102

All dimensions in inches. *Roof opening size for curbs supplied by LOREN COOK COMPANY only. Weights in pounds.

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	Max. Watts	CFM at Static Pressure										
					0.00" SP	0.125" SP	0.250" SP	0.375" SP	0.500" SP	0.625" SP	0.750" SP	0.875" SP	1.000" SP	1.250" SP	1.500" SP
					Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP
70C10DL	1/25	1160	2123	72	105	73									
					3.0	2.5									
70C10DM		1150	2105	73	158	94									
					5.1	4.6									
70C10DH	1/20	1050	1922	73	203	121									
					3.0	2.9									
70C15DL		1700	3112	86	171	131	113	91							
					5.5	5.0	4.8	4.7							
70C15DM	1/20	1670	3057	92	242	187	157	102							
					5.9	5.6	5.2	4.6							
70C15DH		1550	2837	96	305	249	194	135							
					5.2	5.2	5.1	5.0							
90C10DL	1/25	1125	2655	83	322	262	191								
					5.0	4.5	4.4								
90C10DM		1100	2596	88	398	328	241								
					5.7	5.1	5.0								
90C10DH	1/8	1050	2478	91	575	416	231								
					5.0	5.1	4.7								
90C15DL		1715	4047	95	489	445	410	372	331	283	210				
					8.7	8.4	8.1	7.8	7.3	6.9	6.4				
90C15DM	1/8	1670	3841	125	658	600	564	469	412	343	237				
					9.5	9.0	8.5	8.5	7.9	7.4	7.0				
90C15DH		1550	3658	148	865	759	650	509	411	289	131				
					9.1	9.1	8.9	8.4	8.0	7.6	7.2				
100C10DL	1/25	1100	2882	91	388	329	256	166							
					6.7	5.8	5.5	5.7							
100C10DM		1075	2817	96	478	389	295	186							
					6.9	6.7	6.6	5.8							
100C10DH	1/8	1050	2751	99	663	511	353	191							
					5.9	6.0	5.5	5.4							
100C15DL		1665	4362	125	583	545	505	467	427	377	321	254	164		
					11.3	11.1	10.9	10.6	10.3	10.0	9.8	9.5	9.2		
100C15DM	1/8	1625	4258	146	712	658	605	554	498	432	370	292	168		
					11.2	11.0	10.8	10.6	10.5	10.1	9.8	9.4	9.1		
100C15DH		1550	4061	194	967	856	766	667	552	444	384	265			
					11.0	11.0	10.8	10.7	10.5	10.4	10.2	10.1			
101C10D	1/25	1050	2749	-	594	514	418								
					4.6 0.03	4.5 0.03	4.3 0.03								
101C11D	1/4	1140	2985	-	645	570	494								
					5.6 0.04	5.5 0.04	5.3 0.04								
101C15D	1/8	1550	4058	-	877	819	768	716	648	529					
					9.4 0.10	9.4 0.10	9.2 0.10	9.0 0.11	8.9 0.11	8.8 0.11					
101C17D	1/6	1725	4516	-	976	923	875	831	782	718	624				
					10.9 0.13	10.9 0.14	10.8 0.14	10.6 0.15	10.5 0.15	10.4 0.15	10.2 0.16				
120C10D	1/6	1075	3376	-	1152	1058	958	855							
					6.3 .08	6.2 .08	6.0 .09	5.7 .09							
120C11D	1/6	1140	3581	-	1221	1133	1040	946	807	807					
					7.4 .09	7.4 .09	7.3 .10	6.9 .11	6.5 .11	6.5 .11					
120C13D	1/4*	1300	4084	-	1393	1316	1236	1152	1070	956					
					9.6 .13	9.6 .14	9.5 .15	9.2 .16	8.9 .16	8.5 .16					
120C15D		1550	4869	-	1661	1596	1531	1463	1392	1324	1252	1154	959		
					12.4 .23	12.4 .23	12.4 .24	12.2 .25	12.0 .26	11.6 .27	11.3 .27	10.9 .27	10.6 .25		
120C17D	1/3	1725	5417	-	1848	1790	1732	1672	1610	1547	1485	1423	1349	1039	
					14.8 .31	14.8 .32	14.8 .33	14.7 .34	14.5 .35	14.3 .36	14.0 .37	13.7 .37	13.3 .37	12.8 .34	
135C10D	1/6	1075	3795	-	1640	1535	1424	1313	1187						
					8.2 .14	8.2 .14	8.1 .15	7.7 .16	7.4 .16						
135C11D	1/6	1140	4029	-	1739	1640	1537	1431	1324	1165	1324				
					9.5 .16	9.5 .17	9.4 .18	9.1 .19	8.7 .19	8.4 .19	8.7 .19				
135C13D	1/2*	1300	4595	-	1983	1897	1808	1715	1622	1530	1414	1194			
					12.2 .24	12.2 .25	12.2 .26	12.0 .27	11.7 .28	11.3 .28	11.0 .28	10.6 .27			
135C15D		1550	5478	-	2364	2292	2219	2144	2066	1987	1910	1833	1744		
					15.8 .41	15.8 .42	15.8 .43	15.7 .44	15.5 .46	15.3 .48	15.0 .48	14.6 .48	14.3 .48		
135C17D	3/4	1725	6089	-	2539	2479	2418	2358	2297	2234	2171	2104	2033	1865	1645
					19.2 .63	19.2 .64	19.2 .65	19.2 .67	19.0 .68	18.8 .70	18.7 .71	18.4 .73	18.0 .74	17.4 .75	16.8 .74
150C10D	1/3	1075	4225	-	2249	2133	2013	1887	1764	1617	1306				
					10.4 .23	10.4 .24	10.3 .25	10.0 .27	9.7 .27	9.3 .27	8.9 .26				
150C11D	1/3	1140	4477	-	2385	2276	2164	2045	1928	1808	1640	1187			
					11.8 .27	11.8 .28	11.8 .30	11.6 .31	11.2 .33	10.8 .32	10.5 .32	10.1 .28			
150C13D	3/4*	1300	5105	-	2720	2624	2527	2427	2322	2219	2000	1828			
					15.3 .41	15.3 .42	15.3 .43	15.1 .45	14.9 .47	14.5 .48	14.1 .48	13.8 .48	13.4 .48		
150C15D		1550	6087	-	3243	3163	3082	3000	2916	2829	2741	2655	2570	2379	2038
					19.6 .69	19.6 .70	19.6 .71	19.6 .73	19.4 .75	19.2 .78	19.0 .80	18.6 .82	18.3 .82	17.6 .81	17.1 .80

Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown for models 90 - 100 and 165 is nominal. Performance is based on actual speed of test. Speed (RPM) for all other models is constant and based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels. *Motor is a 2-speed 1300/1550 RPM motor.

165-180 ACED Performance Data

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	Max. Watts	CFM at Static Pressure																							
					0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP			
					Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP		
165C10D	1/3	1050	4644	-	2935		2799		2644		2489		2321		2125		1902											
					12.1	.41	12.1	.41	12.0	.42	11.9	.42	11.5	.43	11.2	.43	10.8	.43										
165C11D	3/4	1140	4924	-	3187		3062		2925		2777		2636		2470		2636		2082		1754							
					14.4	.52	14.4	.52	14.4	.53	14.2	.54	14.0	.54	13.6	.55	14.0	.54	12.8	.55	12.5	.53						
180C10D	3/4	1075	5066	-	3958		3853		3745		3625		3481		3299		3481		2883		2502							
					15.8	.62	15.8	.64	15.8	.66	15.4	.68	15.0	.70	14.1	.71	15.0	.70	12.7	.71	12.0	.68						
180C11D	3/4	1140	5369	-	4197		4099		3997		3888		3764		3610		3429		3245		3025							
					17.3	.74	17.3	.76	17.3	.78	16.9	.80	16.5	.82	15.9	.84	15.2	.85	14.4	.85	13.7	.84						

Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown for models 90 - 100 and 165 is nominal. Performance is based on actual speed of test. Speed (RPM) for all other models is constant and based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels. *Motor is a 2-speed 1300/1550 RPM motor.

Catalog Number	HP	RPM	Tip Speed	Max. Watts	CFM at Static Pressure													
					0.00" SP	0.125" SP	0.25" SP	0.375" SP	0.5" SP	0.63" SP	0.75" SP	0.88" SP	1" SP	1.25" SP	1.5" SP			
					Sones/Watts	Sones/Watts	Sones/Watts	Sones/Watts	Sones/Watts	Sones/Watts	Sones/Watts	Sones/Watts	Sones/Watts	Sones/Watts	Sones/Watts	Sones/Watts		
70C17DEC	1/4	429	786	5	77													
					0.2 5													
		861	1577	12	155													
					1.6 12													
		1293	2369	25	233	147	63											
90C17DEC	1/4				4.0 25	3.2 20	3.3 15											
		1725	3161	49	311	244	184	125										
					5.3 49	4.7 41	4.3 36	4.2 30										
100C17DEC	1/4	516	1215	8	234													
					0.4 8													
		919	2165	24	417	275												
					3.2 24	2.4 22												
		1322	3114	58	600	506	403	285										
101C17DEC	1/4				6.7 58	6.1 55	5.5 52	5.0 44										
		1725	4064	120	783	710	639	561	474	383	271							
					8.8 120	8.4 117	8.1 111	7.6 109	7.2 101	6.8 90	6.4 74							
120C17DEC	1/2	471	1233	11	247													
					0.2 11													
		889	2327	32	466	345	120											
					3.6 32	2.9 27	2.5 18											
		1307	3421	76	685	607	522	414										
135C17DEC	3/4				7.9 73	7.3 74	6.9 72	6.6 67										
		1725	4516	160	904	845	785	721	652	569	465	329						
					10.6 159	10.3 160	10.0 159	9.7 156	9.4 152	9.3 146	8.9 132	8.1 112						

Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels.

ACEB Specifications and Dimensions

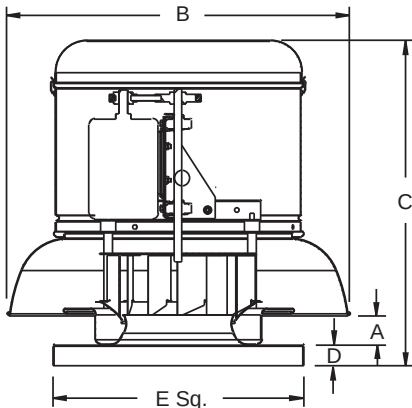
Downblast Centrifugal Exhaust Ventilator Roof Mounted Belt Drive



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



Type ACEB is furnished standard with UL 705 and cUL 705 listings (Power Ventilator/ZACT) when furnished with factory supplied motor.



Description: Fan shall be a spun aluminum, roof mounted, belt driven, downblast centrifugal exhaust ventilator.

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: Fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The spun aluminum structural components shall be constructed of minimum 16 gauge marine alloy aluminum, bolted to a rigid aluminum support structure. The aluminum base shall have continuously welded curb cap corners for maximum leak protection. The discharge baffle shall have a rolled bead for added strength. A two piece top cap shall have stainless steel quick release latches to provide access into the motor compartment without the use of tools. An integral conduit chase shall be provided through the curb cap and into the motor compartment to facilitate wiring connections. The motor, bearings and drives shall be mounted on a minimum 14 gauge steel power assembly, isolated from the unit structure with rubber vibration isolators. These components shall be enclosed in a weather-tight compartment, separated from the exhaust airstream. Lifting lugs shall be provided to help prevent damage from improper lifting. 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.

Wheel: Wheel shall be centrifugal backward inclined, constructed of 100 percent aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

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

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

Belts and Drives: Belts shall be oil and heat resistant, static conducting. Drives shall be precision machined cast iron type, keyed and securely attached to the wheel and motor shafts. Drives shall be sized for 150 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 ACEB as manufactured by LOREN COOK COMPANY of Springfield, Missouri.

Dimensions

Size	A	B	C	D	E Sq.	Roof Opening Square*	Ship. Wt.
60	2-7/8	23-9/16	21-1/8	2	18	13-1/2	30
70	2-7/8	23-9/16	21-1/8	2	18	13-1/2	30
80	2-7/8	23-9/16	21-1/8	2	18	13-1/2	30
100	2-7/8	23-9/16	21-1/8	2	18	13-1/2	30
120	1-13/16	28-7/16	26-7/8	2	20	15-1/2	55
135	2-3/16	28-7/16	27-1/4	2	20	15-1/2	60
150	3-1/16	32-7/8	28-7/8	2	24	19-1/2	70
165	3-9/16	32-7/8	29-3/8	2	24	19-1/2	75
180	3-15/16	37-11/16	34-1/2	3	30	25-1/2	90
195	4-7/16	37-11/16	35	3	30	25-1/2	100
210	4-3/4	43-5/8	37-1/4	3	30	25-1/2	200
225	4-7/8	43-5/8	37-3/8	3	30	25-1/2	220
245	6-1/8	47-5/8	39-7/8	3	30	25-1/2	240
270	6-1/8	47-5/8	39-7/8	3	36	31-1/2	260
300	7-1/16	52-5/8	49-1/16	3	36	31-1/2	300
330	7-5/16	52-5/8	49-5/16	3	42	37-1/2	365
365	8-1/16	62-5/8	51-9/16	3	42	37-1/2	380
402	10-1/16	62-5/8	53-9/16	3	48	43-1/2	440
445	9-3/4	75-3/16	57-1/16	3	54	49-1/2	500
490	11-1/2	75-3/16	58-13/16	3	54	49-1/2	650
540	12-1/2	81-15/16	60-5/16	3	66	61-1/2	858

All dimensions in inches. Weights in pounds, less motor.*Roof opening size for curbs supplied by LOREN COOK COMPANY only.

60 ACEB

Catalog Number	Mtr. HP/Drv. Wt.	Fan RPM	Tip Speed	CFM at Static Pressure																					
				0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
60C2B	1/6* 15 lbs.	740	1937	107	61																				
				1.3	.01	1.0	.01																		
		937	2453	136	103	41																			
				2.9	.03	2.6	.03	2.1	.02																
		1134	2968	164	138	108																			
				5.3	.05	5.1	.05	4.9	.05																
		1331	3484	193	171	147	119	60																	
				7.5	.08	7.5	.07	7.4	.07	7.1	.07	6.3	.06												
		1528	4000	222	203	183	161	135	86																
9.3	.11			9.2	.11	9.1	.11	9.0	.11	8.7	.11	7.9	.10												
1723	4510	250	233	216	197	177	154	118																	
		11.4	.16	11.4	.16	11.3	.16	11.2	.16	11.0	.16	10.8	.16	10.0	.15										
60C3B	1/4* 15 lbs.	1787	4678	259	243	226	209	190	169	143	92														
				12.2	.18	12.1	.18	12.1	.18	12.0	.18	11.8	.18	11.7	.18	11.0	.17	10.3	.16						
		1851	4845	268	253	237	220	202	182	160	122														
				13.0	.20	13.0	.20	12.9	.20	12.8	.20	12.7	.20	12.5	.20	12.1	.20	11.4	.18						
		1915	5013	278	263	247	231	214	196	175	150	101													
				13.9	.22	13.9	.22	13.8	.22	13.7	.22	13.6	.22	13.5	.22	13.3	.22	12.5	.21	11.8	.20				
		1981	5186	287	273	258	242	226	209	190	168	131													
				14.9	.25	14.8	.24	14.7	.24	14.7	.24	14.5	.24	14.4	.24	14.3	.24	13.7	.24	13.0	.23				

70 ACEB

Catalog Number	Mtr. HP/Drv. Wt.	Fan RPM	Tip Speed	CFM at Static Pressure																					
				0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone BHP		Sone BHP		Sone BHP		Sone BHP		Sone BHP		Sone BHP		Sone BHP		Sone BHP		Sone BHP		Sone BHP		Sone BHP	
70C2B	1/6* 15 lbs.	740	1937	162		96																			
				1.7 .01		1.2 .01																			
		930	2434	204		154		70																	
				3.2 .03		2.8 .03		2.6 .02																	
		1120	2932	245		205		159		63															
				5.7 .05		5.4 .05		5.0 .05		4.8 .04															
		1310	3429	287		253		216		176		95													
				8.2 .08		8.0 .07		7.6 .07		7.3 .07		7.1 .07													
		1500	3926	329		298		269		233		199		130											
				10.1 .11		9.8 .11		9.6 .11		9.2 .11		8.9 .11		8.6 .10											
1689	4421	370		343		317		289		256		226		173											
		12.3 .16		12.1 .16		11.9 .16		11.6 .16		11.3 .16		11.0 .15		10.7 .15											
70C3B	1/4* 15 lbs.	1752	4586	384		358		333		306		275		245		215		139							
				13.2 .18		12.9 .18		12.7 .18		12.5 .18		12.2 .18		11.9 .17		11.5 .18		11.2 .16							
		1815	4751	397		372		348		323		294		264		237		179		82					
				14.1 .20		13.9 .20		13.7 .20		13.4 .20		13.1 .20		12.8 .19		12.4 .19		12.1 .19		11.8 .16					
		1878	4916	411		387		363		340		313		283		256		226		152					
				15.1 .23		14.9 .22		14.6 .22		14.4 .22		14.1 .22		13.8 .22		13.5 .21		13.1 .22		12.8 .20					
1941	5081	425		402		379		356		331		302		275		249		192							
		16.0 .25		15.8 .24		15.6 .24		15.4 .24		15.1 .24		14.9 .24		14.6 .23		14.2 .24		13.8 .23							

80 ACEB

Catalog Number	Mtr. HP/Drv. Wt.	Fan RPM	Tip Speed	CFM at Static Pressure																															
				0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP											
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP										
80C2B	1/6* 15 lbs.	740	1937	345		221																													
				2.0	.02	1.4	.02																												
		906	2371	422		327		102																											
				3.4	.03	2.9	.03	2.3	.02																										
		1072	2806	500		423		329																											
				5.4	.05	4.9	.05	4.5	.05																										
		1238	3241	577		510		434		356																									
				7.6	.08	7.2	.08	6.8	.08	6.4	.08																								
1404	3675	654		595		536		460		394																									
		9.2	.11	8.8	.11	8.5	.12	8.2	.12	7.6	.11																								
		1571	4112	732		679		627		567		500		442		181																			
				10.9		.16		10.5		.16		10.1		.16		9.8		.16		9.5		.16		9.0		.16		8.5		.12					
80C3B	1/4* 15 lbs.	1630	4267	760		709		659		603		537		479		418																			
				11.6	.17	11.2	.18	10.8	.18	10.5	.18	10.2	.18	9.8	.18	9.2	.18																		
		1689	4421	787		738		690		638		574		516		463		173																	
				12.3	.19	12.0	.20	11.6	.20	11.3	.20	11.0	.20	10.6	.20	10.1	.20	9.6	.15																
		1748	4576	815		767		720		672		613		553		501		440																	
				13.1	.21	12.7	.22	12.3	.22	12.0	.22	11.7	.23	11.5	.22	10.9	.22	10.4	.22																
1806	4728	842		796		750		704		650		590		538		487		189																	
		13.9	.24	13.5	.24	13.1	.24	12.8	.25	12.5	.25	12.2	.25	11.8	.24	11.3	.24	10.8	.19																

Performance certified is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels. *1/6 & 1/4 HP motor available only in single phase ODP type.

ACEB Performance Data

100 ACEB

Catalog Number	Mtr. HP/Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP																			
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP																
100C2B	1/6* 15 lbs.	740	1937	419		293																																					
				1.9	.01	1.6	.01																																				
		942	2466	533		445		254																																			
				3.4	.02	3.2	.02	3.1	.02																																		
		1144	2994	647		573		497		240																																	
				5.6	.04	5.5	.04	5.3	.04	5.2	.03																																
		1346	3523	762		696		638		564		389																															
				7.6	.06	7.6	.07	7.4	.07	7.2	.07	7.1	.07																														
1548	4052	876		817		766		715		646		525																															
		9.3	.10	9.3	.10	9.2	.10	9.0	.11	8.9	.11	8.7	.11																														
		991		938		891		848		800		740		657		436																											
100C3B	1/4* 15 lbs.	1818	4759	11.2		.14		11.2		.14		11.1		.15		10.9		.15		10.8		.16		10.7		.16		10.5		.16		10.4		.13									
				1029		978		932		890		846		793		723		591																									
		1884	4932	11.9		.16		11.9		.16		11.9		.16		11.7		.17		11.5		.18		11.4		.18		11.3		.18		11.2		.18									
				1066		1017		972		931		890		842		782		700		509																							
		1950	5105	12.8		.17		12.8		.18		12.8		.18		12.6		.19		12.4		.19		12.2		.20		12.1		.20		12.0		.20		11.8		.17					
				1103		1056		1012		972		933		889		836		769		647																							
		2014	5272	13.7		.19		13.7		.20		13.7		.20		13.5		.21		13.3		.21		13.2		.22		13.1		.22		12.9		.22		12.8		.22					
				1140		1094		1051		1012		974		934		886		826		748																							
		14.8		.21		14.8		.21		14.8		.22		14.6		.23		14.3		.23		14.1		.24		14.0		.24		13.9		.24		13.8		.25							

150 ACEB

Catalog Number	Mtr. HP/Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP			
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
150C2B	1/6 15 lbs.	776	3047	1624		1460		1288		1024																	
				5.5 .09		5.4 .09		5.1 .10		4.7 .10																	
		840	3298	1757		1608		1448		1276																	
				6.3 .11		6.3 .12		6.1 .13		5.7 .13																	
		904	3550	1891		1753		1605		1457		1224															
				7.2 .14		7.2 .14		7.1 .16		6.7 .16		6.3 .16															
150C3B	1/4 15 lbs.	972	3817	2034		1905		1769		1632		1479															
				8.4 .17		8.4 .18		8.3 .19		8.0 .20		7.6 .20															
		1040	4084	2176		2056		1931		1801		1672		1495													
				9.7 .21		9.7 .22		9.6 .23		9.4 .25		9.0 .25		8.6 .24													
		150C4B	1/3 19 lbs.	1150	4516	2406		2298		2187		2069		1953		1835		1677									
						12.0 .28		12.0 .29		12.0 .30		11.8 .32		11.5 .33		11.1 .33		10.7 .33									
150C5B	1/2 23 lbs.	1235	4849	2584		2483		2381		2273		2163		2056		1942		1785									
				14.1 .35		14.1 .36		14.1 .37		13.8 .39		13.6 .41		13.2 .41		12.7 .41		12.4 .41									
		1320	5183	2762		2668		2572		2473		2370		2269		2169		2059		1907							
				15.6 .43		15.6 .44		15.6 .45		15.4 .47		15.2 .49		14.9 .50		14.5 .51		14.1 .50		13.8 .50							
		150C6B	3/4 31 lbs.	1420	5576	2971		2884		2795		2705		2610		2514		2421		2328		2226		1887			
						17.2 .53		17.2 .54		17.2 .55		17.2 .57		17.0 .59		16.8 .62		16.5 .63		16.1 .63		15.8 .63		15.1 .62			
150C6B	31 lbs.	1519	5965	3178		3096		3014		2930		2844		2755		2665		2578		2491		2282					
				19.0 .65		19.0 .66		19.0 .67		19.0 .69		18.8 .71		18.6 .74		18.4 .76		18.0 .77		17.7 .77		17.1 .76					

165 ACEB

Catalog Number	Mtr. HP/Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
165C2B	1/6 15 lbs.	716	3092	1994		1800		1594		1309															
				5.8	.11	5.7	.12	5.4	.13	5.0	.13														
				2147		1968		1776		1573															
165C3B	1/4 15 lbs.	829	3581	2309		2143		1965		1788		1525													
				7.5	.17	7.5	.18	7.3	.20	6.9	.20	6.6	.20												
				2470		2315		2152		1986		1803													
165C4B	1/3 19 lbs.	934	4034	2601		2454		2301		2141		1982		1746											
				9.4	.24	9.4	.25	9.3	.27	9.0	.29	8.7	.29	8.3	.29										
				2732		2592		2448		2295		2147		1971											
165C5B	1/2 23 lbs.	1053	4548	2933		2803		2669		2529		2388		2247		2064									
				12.2	.35	12.2	.36	12.1	.37	11.9	.40	11.6	.41	11.2	.41	10.8	.41								
				3136		3014		2891		2761		2628		2499		2362		2175							
165C6B	3/4 31 lbs.	1211	5231	3373		3260		3145		3027		2904		2782		2662		2532		2360					
				16.4	.53	16.4	.54	16.4	.56	16.2	.58	16.0	.60	15.7	.63	15.3	.63	14.9	.63	14.6	.62				
				3609		3504		3397		3288		3175		3060		2946		2834		2712					
165C7B	1 1/2 38 lbs.	1296	5598	18.4		18.4		18.4		18.3		18.1		17.9		17.5		17.1		16.8					
				.65	.66	.66	.68	.68	.70	.72	.75	.75	.77	.77	.77	.77									

180 ACEB

Catalog Number	Mtr. HP/Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
180C2B	1/6 15 lbs.	645	3039	2349	2123	1875	1539																		
				6.1	.14	6.0	.15	5.3	.16	4.5	.16														
180C3B	1/4 15 lbs.	742	3496	2702	2509	2302	2070	1759																	
				8.0	.21	7.9	.22	7.4	.24	6.6	.24	5.9	.25												
180C4B	1/3 19 lbs.	820	3864	2986	2813	2628	2433	2206	1901																
				9.6	.28	9.6	.30	9.1	.31	8.5	.33	7.7	.33												
180C5B	1/2	881	4151	3208	3048	2877	2700	2506	2276																
				10.9	.35	10.9	.36	10.6	.38	10.1	.40	9.2	.41	8.6	.41										
	23 lbs.	942	4439	3430	3281	3123	2960	2787	2594	2361															
				12.4	.42	12.4	.44	12.1	.46	11.7	.48	10.9	.49	10.2	.50	9.5	.51								
180C6B	3/4 31 lbs.	1084	5108	3948	3819	3684	3544	3402	3253	3093	2915	2705													
				16.1	.65	16.1	.66	16.0	.69	15.6	.71	15.2	.73	14.4	.75	13.6	.76	12.9	.77	12.3	.77				
180C7B	1 36 lbs.	1196	5636	4355	4240	4118	3993	3866	3736	3601	3458	3304	2927												
				18.5	.87	18.5	.89	18.5	.91	18.2	.94	17.8	.97	17.4	.99	16.7	1.00	16.0	1.02	15.3	1.03	14.0	1.03		
180C8B	1-1/2 38 lbs.	1373	6470	5000	4900	4796	4688	4579	4468	4356	4242	4123	3867	3571											
				23	1.31	23	1.33	23	1.36	23	1.40	23	1.43	22	1.46	22	1.48	21	1.50	21	1.52	19.4	1.55	18.2	1.56
180C9B	2	1443	6799	5255	5160	5061	4960	4856	4751	4645	4538	4428	4196	3937											
				25	1.52	25	1.55	25	1.58	25	1.61	25	1.64	24	1.68	24	1.70	23	1.73	23	1.75	22	1.78	20	1.81
	50 lbs.	1513	7129	5510	5419	5326	5229	5131	5032	4931	4830	4726	4512	4280											
				27	1.75	27	1.78	27	1.81	27	1.84	27	1.88	26	1.92	26	1.95	26	1.97	25	2.00	24	2.04	23	2.07

ACEB Performance Data

195 ACEB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
195C2B	1/6 15 lbs.	575	2935	2692		2467		2117																	
				5.9	.14	5.7	.15	4.9	.16																
195C3B	1/4 15 lbs.	661	3374	3094		2905		2653		2301															
				7.6	.22	7.5	.23	6.9	.24	6.1	.25														
195C4B	1/3 19 lbs.	731	3731	3422		3253		3052		2763		2395													
				9.1	.29	9.1	.31	8.7	.32	7.9	.33	7.2	.33												
195C5B	1/2 23 lbs.	839	4283	3927		3781		3622		3422		3158		2862											
				11.8	.44	11.8	.46	11.5	.48	11.0	.50	10.2	.50	9.4	.50										
195C6B	3/4	903	4609	4227		4092		3948		3781		3558		3307		3003									
				113.5	.55	13.5	.57	13.3	.59	12.8	.61	12.1	.62	11.4	.63	10.6	.62								
	31 lbs.	966	4931	4522		4396		4264		4117		3935		3707		3470		3159							
				15.3	.67	15.3	.70	15.2	.72	14.7	.74	14.2	.76	13.4	.77	12.7	.77	12.0	.76						
195C7B	1 36 lbs.	1066	5442	4990		4876		4758		4633		4492		4317		4110		3897		3656					
				18.2	.91	18.2	.93	18.2	.95	17.9	.98	17.5	1.00	17.0	1.02	16.2	1.03	15.5	1.03	14.7	1.03				
195C8B	1-1/2	1145	5845	5360		5254		5145		5032		4909		4767		4595		4399		4201		3684			
				20	1.12	20	1.15	20	1.17	20	1.20	19.7	1.22	19.3	1.25	18.7	1.27	18.0	1.28	17.3	1.28	15.9	1.26		
	38 lbs.	1224	6248	5730		5631		5530		5425		5315		5193		5053		4887		4702		4323		3701	
22				1.37	22	1.40	22	1.43	22	1.45	22	1.48	22	1.51	21	1.53	20	1.55	19.8	1.56	18.5	1.56	17.3	1.51	
195C9B	2 50 lbs.	1348	6881	6310		6220		6129		6036		5939		5837		5726		5603		5459		5128		4785	
				26	1.83	26	1.86	26	1.89	26	1.92	26	1.95	25	1.98	25	2.01	25	2.04	24	2.06	23	2.09	22	2.09

210 ACEB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
210C2B	1/6 15 lbs.	508	2792	2970		2691		2239																	
				5.4	.14	5.2	.16	4.3	.16																
210C3B	1/4 15 lbs.	584	3210	3415		3181		2849		2359															
				7.0	.22	6.9	.23	6.3	.25	5.5	.24														
210C4B	1/3 19 lbs.	646	3551	3777		3569		3310		2942		2310													
				8.4	.29	8.4	.31	7.9	.33	7.1	.33	6.4	.32												
210C5B	1/2 23 lbs.	742	4079	4338		4159		3961		3694		3365		2890											
				10.9	.44	10.9	.46	10.5	.48	9.9	.50	9.1	.50	8.4	.49										
210C6B	3/4 31 lbs.	854	4695	4993		4839		4676		4489		4244		3959		3639									
				14.4	.67	14.1	.70	13.9	.72	16.5	.74	12.8	.76	12.1	.77	11.3	.76								
210C7B	1 36 lbs.	898	4937	5251		5104		4951		4780		4570		4306		4032		3673							
				15.5	.78	15.5	.81	15.4	.83	15.0	.86	14.4	.88	13.6	.89	12.9	.89	12.2	.88						
				5508		5368		5224		5066		4882		4648		4388		4114		3704					
210C8B	1-1/2 38 lbs.	1081	5943	6321		6199		6075		5946		5807		5649		5459		5240		5014		4477			
				22	1.37	22	1.40	22	1.43	21	1.46	21	1.49	21	1.51	20	1.54	19.3	1.56	18.6	1.56	17.2	1.54		
210C9B	2 50 lbs.	1137	6250	6648		6533		6416		6294		6165		6024		5862		5669		5456		5015		4296	
				23	1.59	23	1.62	22	1.66	23	1.69	23	1.72	22	1.75	22	1.75	21	1.80	21	1.81	19.2	1.81	17.9	1.76
				6970		6860		6748		6634		6514		6385		6241		6075		5883		5472		4987	
				25	1.83	25	1.87	25	1.90	25	1.93	25	1.97	24	2.00	24	2.03	23	2.06	23	2.08	21	2.09	19.9	2.07

225 ACEB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
225C3B	1/4 15 lbs.	512	3015	3729		3358		2940																	
				6.4	.22	6.2	.24	5.5	.25																
225C4B	1/3 19 lbs.	566	3334	4123		3802		3365		3120															
				7.6	.30	7.6	.32	7.0	.33	6.1	.33														
225C5B	1/2 23 lbs.	650	3828	4735		4464		4095		3778		3571													
				9.8	.46	9.8	.48	9.3	.50	8.6	.51	7.9	.50												
225C6B	3/4	698	4111	5084		4836		4523		4161		3957		3714											
				11.2	.57	11.2	.59	10.8	.61	10.2	.62	9.4	.62	8.7	.62										
	31 lbs.	747	4400	5441		5210		4940		4578		4335		4162		3816									
				12.7	.69	12.7	.71	12.4	.74	12.0	.76	11.1	.77	10.4	.76	9.6	.75								
225C7B	1 36 lbs.	825	4859	6009		5802		5573		5275		4965		4768		4613		4384							
				15.2	.93	15.2	.96	15.1	.98	14.6	1.01	14.1	1.03	13.3	1.03	12.5	1.03	11.8	1.02						
225C8B	1-1/2	886	5218	6454		6261		6055		5809		5491		5250		5086		4942		4732					
				17.4	1.16	17.4	1.18	17.4	1.21	16.9	1.24	16.5	1.27	15.8	1.28	15.0	1.28	14.2	1.27	13.5	1.27				
	38 lbs.	947	5578	6898		6718		6529		6316		6040		5757		5563		5417		5282					
19.5				1.41	19.5	1.44	19.5	1.47	19.2	1.50	18.8	1.53	18.3	1.55	17.6	1.56	16.8	1.56	16.1	1.56					
225C9B	2	995	5861	7248		7077		6899		6703		6464		6179		5951		5787		5657		5341			
				21	1.64	21	1.67	21	1.70	21	1.73	21	1.76	20	1.79	19.7	1.81	18.9	1.81	18.2	1.81	16.8	1.80		
	50 lbs.	1043	6143	7597		7434		7266		7085		6875		6611		6356		6170		6026		5777			
23				1.89	23	1.92	23	1.95	23	1.98	23	2.01	22	2.05	22	2.08	21	2.09	20	2.09	18.9	2.08			

245 ACEB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
245C3B	1/4 15 lbs.	434	2783	4081		3651		3017																	
				5.6	.22	5.3	.24	4.5	.25																
245C4B	1/3 19 lbs.	480	3078	4513		4133		3633																	
				6.7	.30	6.6	.32	5.9	.33																
245C5B	1/2 23 lbs.	551	3534	5181		4856		4475		3969															
				8.8	.46	8.7	.48	8.1	.50	7.3	.50														
245C6B	3/4 31 lbs.	634	4066	5962		5682		5377		5009		4552		3863											
				11.1	.70	11.1	.72	10.7	.75	10.1	.76	9.3	.77	8.6	.74										
245C7B	1	666	4271	6262		5996		5713		5380		4975		4464											
				12.2	.81	12.2	.84	11.9	.86	11.3	10.5	10.5	.89	9.7	.89										
	36 lbs.	699	4483	6573		6320		6053		5751		5387		4954		4335									
				13.3	.94	13.3	.97	13.1	.99	12.6	1.01	11.8	1.02	11.0	1.03	10.3	1.00								
245C8B	1-1/2 38 lbs.	751	4816	7062		6827		6583		6316		6005		5644		5216		4593							
				15.2	1.16	15.2	1.19	15.1	1.22	14.6	1.24	14.0	1.26	13.2	1.27	12.4	1.27	11.7	1.24						
	803	5150		7551		7331		7105		6864		6594		6283		5930		5512		4913					
				17.2	1.42	17.2	1.45	17.2	1.48	16.7	1.51	16.3	1.53	15.5	1.55	14.7	1.56	13.9	1.56	13.2	1.51				
245C9B	2	844	5413	7936		7728		7514		7289		7044		6764		6449		6094		5671					
				18.7	1.65	18.7	1.69	18.7	1.72	18.4	1.75	18.0	1.77	17.4	1.79	16.6	1.80	15.9	1.81	15.1	1.80				
	50 lbs.	885	5676	8322		8123		7920		7709		7482		7230		6946		6632		6278		5121			
				20	1.90	20	1.94	20	1.97	20	2.01	19.7	2.03	19.3	2.05	18.5	2.07	17.8	2.08	17.1	2.09	15.6	1.97		

270 ACEB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
270C3B	1/4 15 lbs.	369	2608	4644		4073		3118																	
				5.0	.22	4.7	.24	3.8	.24																
270C4B	1/3 19 lbs.	408	2883	5135		4635		3931																	
				6.1	.30	5.9	.32	5.1	.33																
270C5B	1/2 23 lbs.	468	3308	5890		5465		4939		4197															
				7.8	.46	7.7	.48	7.1	.50	6.3	.50														
270C6B	3/4 31 lbs.	504	3562	6343		5951		5495		4893		3724													
				9.1	.57	9.1	.60	8.5	.62	7.6	.63	6.8	.58												
	539	3809		6783		6419		6012		5496		4816													
				10.4	.70	10.4	.73	9.9	.75	9.1	.76	8.2	.76												
270C7B	1 36 lbs.	594	4198	7475		7146		6793		6375		5863		5192											
				12.2	.94	12.2	.97	11.9	.99	11.1	1.01	10.3	1.02	9.5	1.02										
270C8B	1-1/2 38 lbs.	638	4509	8029		7724		7402		7039		6603		6086		5370									
				13.7	1.16	13.7	1.19	13.5	1.22	13.0	1.25	12.2	1.26	11.3	1.27	10.6	1.25								
	683	4827		8596		8311		8015		7692		7316		6880		6365		5623							
				15.5	1.42	15.5	1.46	15.4	1.49	14.9	1.52	14.3	1.54	13.5	1.55	12.7	1.56	12.0	1.52						
270C9B	2	717	5068	9023		8752		8473		8173		7834		7442		6995		6455		5497					
				16.9	1.65	16.9	1.68	16.9	1.72	16.4	1.75	16.0	1.77	15.1	1.79	14.3	1.80	13.6	1.80	12.9	1.69				
	50 lbs.	752	5315	9464		9206		8941		8661		8352		7999		7601		7147		6583					
				18.4	1.9	18.4	1.94	18.4	1.98	18.0	2.01	17.6	2.04	16.9	2.06	16.1	2.07	15.3	2.08	14.6	2.06				

300 ACEB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
300C4B	1/3 19 lbs.	342	2686	5904		5227		4171																	
				6.1	.30	5.2	.32	4.4	.33																
300C5B	1/2 23 lbs.	393	3086	6785		6216		5468		3986															
				8.0	.46	7.2	.49	6.4	.5	5.8	.46														
300C6B	3/4 31 lbs.	452	3550	7803		7317		6749		5999		4458													
				10.7	.70	9.9	.73	8.9	.75	8.2	.76	7.6	.69												
300C7B	1 36 lbs.	499	3919	8615		8178		7696		7096		6334													
				13.0	.94	12.5	.97	11.3	1.00	10.5	1.02	9.8	1.03												
300C8B	1-1/2 38 lbs.	573	4500	9892		9514		9115		8664		8123		7480		6581									
				16.4	1.42	16.1	1.46	14.9	1.50	14.0	1.53	13.3	1.55	12.7	1.56	12.1	1.53								
300C9B	2 50 lbs.	631	4955	10894		10551		10196		9813		9374		8865		8278		7529							
				18.9	1.90	18.9	1.94	17.8	1.99	16.9	2.02	16.3	2.05	15.6	2.07	15.0	2.08	14.3	2.06						
300C10B	3	677	5317	11688		11369		11042		10696		10315		9878		9386		8825		8128					
				21	2.34	21	2.39	20	2.44	19.4	2.48	18.7	2.52	18.1	2.54	17.5	2.56	16.9	2.57	16.4	2.55				
	74 lbs.	724	5686	12499		12201		11898		11581		11241		10864		10439		9970		9441		7742			
				24	2.87	24	2.92	23	2.97	22	3.02	21	3.06	21	3.09	20	3.11	19.5	3.13	18.9	3.14	17.9	2.98		
300C11B	5	792	6220	13673		13401		13125		12842		12545		12228		11878		11493		11073		10098		8410	
				28	3.75	28	3.81	28	3.87	27	3.92	26	3.97	25	4.01	24	4.05	24	4.07	23	4.09	22	4.11	21	3.88
	98 lbs.	861	6762	14864		14614		14362		14105		13839		13562		13265		12944		12594		11814		10882	
				33	4.82	33	4.89	33	4.95	31	5.01	30	5.07	29	5.12	29	5.16	28	5.20	28	5.22	26	5.27	25	5.28

ACEB Performance Data

330 ACEB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP		
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone
330C5B	1/2 23 lbs.	335	2894	7698		6953		5909																		
				7.2	.46	6.3	.49	5.5	.50																	
330C6B	3/4 31 lbs.	385	3326	8847		8215		7437		6343																
				9.5	.69	8.7	.73	7.8	.75	7.1	.76															
330C7B	1 36 lbs.	425	3671	9766		9198		8551		7712		6479														
				11.6	.93	10.9	.97	9.8	1.00	9.1	1.02	8.5	1.00													
330C8B	1-1/2 38 lbs.	488	4216	11213		10723		10198		9577		8818		7831												
				15.2	1.41	14.8	1.46	13.5	1.50	12.7	1.53	12.0	1.55	11.3	1.54											
330C9B	2 50 lbs.	513	4432	11788		11323		10830		10268		9590		8774		7490										
				16.7	1.64	16.4	1.69	15.1	1.74	14.3	1.77	13.6	1.79	12.9	1.80	12.2	1.73									
		538	4647	12362		11920		11456		10941		10330		9614		8717		6588								
				18.0	1.89	17.8	1.95	16.6	1.99	15.7	2.03	15.0	2.06	14.3	2.07	13.7	2.06	13.1	1.83							
330C10B	3 74 lbs.	578	4993	13281		12870		12444		11985		11463		10856		10159		9289		7299						
				19.9	2.35	19.8	2.40	18.7	2.46	17.7	2.50	17.0	2.54	16.4	2.56	15.8	2.57	15.2	2.56	14.6	2.30					
		618	5339	14200		13816		13422		13006		12548		12023		11433		10762		9935						
				22	2.87	22	2.93	21	2.99	20	3.04	19.2	3.08	18.6	3.11	18.0	3.13	17.4	3.15	16.8	3.12					
330C11B	5 98 lbs.	676	5840	15533		15182		14825		14456		14060		13628		13143		12607		12015		10444				
				26	3.76	26	3.82	25	3.89	24	3.95	23	4.00	22	4.04	22	4.07	21	4.10	20	4.12	19.3	4.04			
		734	6341	16866		16543		16216		15880		15530		15158		14753		14305		13818		12704		11107		
				30	4.81	30	4.88	29	4.95	28	5.02	27	5.08	26	5.13	26	5.18	25	5.21	24	5.24	23	5.27	22	5.14	

365 ACEB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
365C6B	3/4 31 lbs.	340	3248	10031		8971		7888		6233															
				9.1	.70	8.4	.74	7.5	.76	6.8	.74														
365C7B	1 36 lbs.	375	3583	11064		10106		9124		8060															
				11.2	.94	10.4	.99	9.4	1.00	8.7	1.02														
365C8B	1-1/2 38 lbs.	403	3850	11890		11000		10088		9168		7840													
				13.0	1.16	12.3	1.22	11.2	1.24	10.4	1.27	9.7	1.25												
		431	4118	12716		11885		11036		10184		9220		7455											
				14.8	1.42	14.3	1.48	13.0	1.51	12.2	1.54	11.5	1.55	10.8	1.49										
365C9B	2 50 lbs.	453	4328	13365		12575		11770		10957		10117		8900											
				16.2	1.65	15.8	1.72	14.5	1.75	13.7	1.77	13.0	1.8	12.3	1.77										
		475	4538	14014		13261		12496		11718		10942		10002		8400									
				17.6	1.90	17.4	1.97	16.1	2.02	15.2	2.04	14.6	2.07	13.9	2.07	13.2	2.00								
365C10B	3 74 lbs.	510	4873	15047		14346		13637		12913		12194		11447		10469		8824							
				20	2.36	19.9	2.43	18.7	2.49	17.7	2.51	17.0	2.54	16.4	2.57	15.7	2.56	15.1	2.46						
		545	5207	16079		15424		14762		14089		13411		12739		12004		11012		9415					
				22	2.87	22	2.96	21	3.02	20	3.06	19.2	3.08	18.6	3.11	18.0	3.14	17.4	3.11	16.8	3.00				
365C11B	5 98 lbs.	597	5704	17613		17016		16414		15804		15185		14568		13954		13295		12476					
				25	3.78	25	3.87	25	3.95	23	4.00	22	4.03	22	4.05	21	4.09	21	4.13	20	4.11				
		648	6192	19118		18567		18014		17456		16889		16318		15751		15186		14589		12987			
				29	4.83	29	4.93	28	5.02	27	5.09	26	5.13	25	5.16	25	5.19	24	5.23	24	5.27	22	5.21		

402 ACEB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
402C6B	3/4 31 lbs.	289	3045	11434		10053		8617																	
				8.2	.70	7.3	.74	6.5	.76																
402C7B	1 36 lbs.	319	3361	12621		11375		10102		8433															
				9.9	.94	9.1	.99	8.2	1.01	7.5	1.01														
402C8B	1-1/2 38 lbs.	343	3614	13570		12414		11229		9959															
				11.5	1.17	10.8	1.23	9.7	1.25	9.0	1.28														
		366	3856	14480		13398		12289		11171		9563													
				13.4	1.42	12.5	1.49	11.3	1.51	10.6	1.54	9.8	1.52												
402C9B	2 50 lbs.	384	4046	15192		14162		13108		12052		10794													
				14.4	1.64	13.9	1.71	12.7	1.75	11.9	1.77	11.2	1.78												
		403	4246	15944		14963		13962		12955		11884		10197											
				15.8	1.89	15.4	1.97	14.1	2.01	13.3	2.04	12.6	2.07	11.9	2.02										
402C10B	3 74 lbs.	433	4562	17131		16219		15292		14350		13412		12288		10416									
				18.0	2.35	17.7	2.43	16.5	2.49	15.6	2.51	14.9	2.55	14.2	2.56	13.6	2.48								
		463	4878	18318		17465		16603		15723		14849		13939		12753									
				20	2.87	20	2.96	19.0	3.03	17.9	3.06	17.2	3.09	16.6	3.13	15.9	3.11								
402C11B	5 98 lbs.	507	5342	20058		19281		18496		17699		16893		16098		15260		14217		12665					
				24	3.77	24	3.87	23	3.95	22	4.01	21	4.03	20	4.07	19.5	4.11	18.9	4.10	18.3	4.01				
		550	5795	21760		21043		20322		19592		18851		18111		17377		16604		15680					
				27	4.81	27	4.92	26	5.02	25	5.09	24	5.13	24	5.15	23	5.20	22	5.25	22	5.25				

445 ACEB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
445C7B	1 36 lbs.	269	3133	14382		12746		11064																	
				8.8	.93	8.0	.99	7.1	1.01																
445C8B	1-1/2 38 lbs.	289	3366	15451		13933		12382		10364															
		309	3599	10.1	1.15	9.3	1.22	8.4	1.25	7.7	1.24														
445C9B	2 50 lbs.	325	3786	16521		15104		13651		12086															
				11.6	1.41	10.9	1.49	9.8	1.51	9.0	1.54														
445C10B	3 74 lbs.	366	4263	17376		16030		14650		13245		11044													
				12.8	1.64	12.2	1.72	11.0	1.76	10.2	1.79	9.5	1.75												
445C11B	5 98 lbs.	428	4986	18232		16950		15637		14322		12655													
				14.1	1.90	13.6	1.98	12.3	2.02	11.5	2.06	10.8	2.06												
445C12B	7-1/2 120 lbs.	391	4555	19568		18376		17159		15933		14639		12643											
				16.1	2.34	15.7	2.44	14.4	2.49	13.6	2.52	12.9	2.56	12.1	2.50										
445C13B	9 150 lbs.	428	4986	20905		19790		18656		17504		16356		14977		12666									
				18.1	2.86	17.8	2.96	16.6	3.03	15.8	3.06	15.0	3.1	14.3	3.12	13.7	3.02								
445C14B	11 180 lbs.	465	5417	22883		21865		20836		19786		18739		17676		16380		14389							
				21	3.75	21	3.86	20	3.95	18.9	4.00	18.2	4.03	17.6	4.08	16.9	4.09	16.3	3.98						
445C15B	13 210 lbs.	465	5417	24861		23925		22981		22022		21052		20092		19100		17912		16211					
				25	4.81	25	4.93	24	5.04	23	5.11	22	5.14	21	5.18	20	5.24	19.7	5.25	19.1	5.14				

490 ACEB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
490C7B	1 36 lbs.	229	2937	16346		14223		11950																	
				7.8	.93	6.9	.99	6.2	1.02																
490C8B	1-1/2 38 lbs.	246	3155	17559		15590		13568		9724															
		263	3373	9.0	1.15	8.1	1.22	7.3	1.25	6.6	1.17														
490C9B	2 50 lbs.	277	3553	18773		16935		15057		12633															
				10.4	1.41	9.6	1.49	8.6	1.52	7.9	1.52														
490C10B	3 74 lbs.	312	4002	19772		18031		16246		14273															
				11.5	1.64	10.8	1.73	9.7	1.77	8.9	1.79														
490C11B	5 98 lbs.	365	4682	20700		19038		17333		15574		12543													
				12.6	1.89	11.9	1.98	10.8	2.02	10.0	2.06	9.2	1.99												
490C12B	7-1/2 120 lbs.	396	5079	22271		20729		19148		17566		15609													
				14.5	2.35	14.0	2.46	12.7	2.51	11.9	2.55	11.2	2.55												
490C13B	9 150 lbs.	428	4986	23770		22326		20853		19369		17806		15411											
				16.3	2.86	15.9	2.97	14.7	3.04	13.8	3.07	13.1	3.12	12.4	3.05										
490C14B	11 180 lbs.	465	5417	26054		24738		23404		22044		20695		19189		16912									
				19.3	3.76	19.0	3.89	17.8	3.98	16.8	4.02	16.1	4.07	15.5	4.11	14.8	4.02								
490C15B	13 210 lbs.	465	5417	28266		27055		25831		24583		23333		22080		20633		18518							
				22	4.80	22	4.95	21	5.06	19.9	5.12	19.2	5.16	18.5	5.22	17.8	5.25	17.2	5.14						

540 ACEB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
540C8B	1-1/2 38 lbs.	234	3308	18852		16755		14603		11865															
				10.3	1.52	10.6	1.55	10.2	1.55	9.7	1.52														
540C9B	2 50 lbs.	258	3647	20786		18883		16967		14843															
				12.5	2.04	13.0	2.07	12.0	2.07	11.9	2.07														
540C10B	3 74 lbs.	277	3916	22317		20544		18769		16900		14598													
				14.3	2.53	14.8	2.55	13.4	2.57	13.7	2.56	13.1	2.53												
		296	4184	23847		22189		20531		18828		16922		14490											
				16.0	3.08	16.4	3.11	15.6	3.13	15.3	3.13	14.9	3.12	14.3	3.05										
540C11B	5 98 lbs.	315	4453	25378		23820		22262		20686		19005		17002											
				17.8	3.72	18.2	3.75	17.7	3.77	16.8	3.77	16.8	3.77	16.1	3.74										
		334	4721	26909		25439		23970		22494		20963		19267		17189									
				19.6	4.43	20	4.46	20	4.49	18.3	4.5	18.7	4.49	18.1	4.49	17.3	4.42								
		352	4976	28359		26964		25570		24175		22747		21230		19481		17386							
540C12B	7-1/2 120 lbs.	369	5216	29728		28398		27068		25739		24391		22989		21457		19642		17587					
				23	5.97	24	6.01	24	6.05	23	6.07	22	6.06	22	6.06	21	6.05	20	5.99	19.9	5.89				
		386	5456	31098		29827		28554		27284		26005		24691		23299		21732		19892					
				25	6.84	25	6.87	26	6.91	25	6.94	23	6.94	24	6.94	23	6.94	22	6.91	22	6.83				
		403	5697	32468		31250		30031		28815		27594		26352		25059		23667		22069					
				27	7.78	27	7.82	28	7.86	27	7.89	25	7.90	25	7.90	25	7.90	25	7.89	24	7.84				

ACRUD / ACRUDEC Specifications and Dimensions

Upblast Centrifugal Exhaust Ventilator Roof Mounted Direct Drive

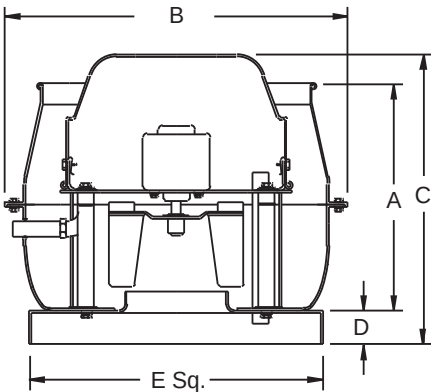


LOREN COOK COMPANY certifies that the ACRUD, ACRUD-EC, ACRUD-HP, ACRUDEC-HP, ACRUD-XP, and ACRUDEC-XP shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

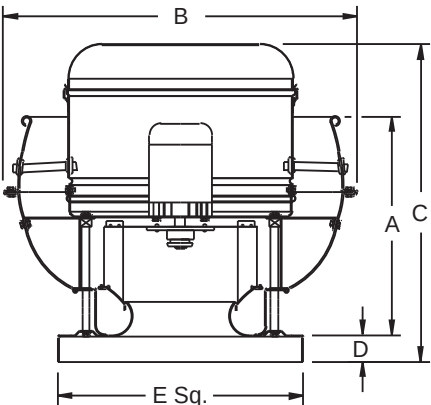


Type ACRUD, ACRUD-EC, ACRUD-HP, ACRUDEC-HP and ACRUD-XP, ACRUEC-XP are furnished standard with UL 705 and cUL 705 listings (Power Ventilator/ZACT).

Size 70 - 100



Size 101 - 180



Description: Fan shall be a spun aluminum, roof mounted, direct driven, upblast centrifugal exhaust ventilator.

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: Fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The spun aluminum structural components shall be constructed of minimum 16 gauge marine alloy aluminum, bolted to a rigid aluminum support structure. The aluminum base shall have a one piece inlet spinning and continuously welded curb cap corners for maximum leak protection. The windband shall have a rolled bead for added strength. An integral conduit chase shall be provided into the motor compartment to facilitate wiring connections. The motor shall be enclosed in a weather-tight compartment, separated from the exhaust airstream. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM and static pressure. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel: Wheel shall be centrifugal backward inclined, constructed of 100 percent aluminum, including a precision machined cast aluminum hub. An aerodynamic aluminum inlet cone shall be provided for maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

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

Motor EC: Motor shall be an electronically commutated motor rated for continuous duty and furnished either with internally mounted potentiometer speed controller or with leads for connection to 0-10 VDC external controller.

Product: Fans shall be models ACRUD, ACRUD-EC, ACRUDEC-HP, ACRUDEC-XP, ACRUD-HP or ACRUD-XP as manufactured by LOREN COOK COMPANY of Springfield, Missouri.

Dimensions

Size	A	B	C			D	E Sq.	Roof Opening Square*	Ship. Wt.
			ACRUD	ACRUD-HP	ACRUD-XP				
70	10-3/4	17-1/8	13-3/8	-	-	2	18	13-1/2	20
90	13-1/4	21-1/8	16-3/8	-	-	2	18	13-1/2	28
100	13-1/4	21-1/8	16-3/8	-	-	2	18	13-1/2	30
101	12-1/2	25-1/4	20-3/16	-	-	2	18	13-1/2	30
120	19-1/16	30-3/16	28-1/8	-	-	2	20	15-1/2	67
135	19-1/16	30-3/16	28-5/8	-	-	2	20	15-1/2	72
150	20-15/16	34-11/16	30-1/4	27-1/2	-	2	24	19-1/2	87
165	20-15/16	34-11/16	30-3/4	27-3/4	26-11/16	2	24	19-1/2	90
180	24-13/16	39-7/16	35-7/8	33-3/8	31-7/16	3	30	25-1/2	102
195	24-13/16	19-7/16	-	33-1/2	32-1/8	3	30	25-1/2	110

All dimensions in inches. Weights in pounds. *Roof opening size for curbs supplied by LOREN COOK COMPANY only.

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	Max. Watts	CFM at Static Pressure																					
					0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
					Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
70R10DL	1/25	1160	2123	72	100		56																			
					3.4		3.6																			
70R10DM		1150	2105	75	145		76																			
					3.7		3.3																			
70R10DH		1050	1922	80	194		89																			
					5.0		4.9																			
70R15DL	1/20	1720	3112	86	149		117		94																	
					5.5		5.4		4.8																	
70R15DM		1680	3057	92	211		169		116																	
					6.6		5.9		5.1																	
70R15DH		1550	2837	92	274		210		151																	
					6.4		6.4		5.9																	
90R10DL	1/25	1130	2655	80	306		241		167																	
					4.6		4.2		4.1																	
90R10DM		1110	2596	85	391		299		184																	
					5.2		4.8		4.0																	
90R10DH		1050	2478	85	470		353		201																	
					4.4		4.3		4.1																	
90R15DL	1/8	1710	4047	95	462		422		383		340		297		246		168									
					8.4		8.1		7.9		7.5		7.1		6.7		6.2									
90R15DM		1680	3841	118	584		526		467		405		325		242		172									
					9.9		9.7		9.6		8.8		8.0		7.3		6.7									
90R15DH		1550	3658	132	696		616		533		456		384		263		166									
					7.8		7.8		7.3		7.1		7.0		6.9		6.8									
100R10DL	1/25	1100	2882	89	370		304		227																	
					6.1		5.9		5.7																	
100R10DM		1090	2817	90	435		358		256		124															
					6.1		5.8		5.5		5.2															
100R10DH		1050	2751	94	554		424		261																	
					6.6		6.9		6.4																	
100R15DL	1/8	1650	4362	130	549		509		468		424		376		320		254		177							
					10.0		9.7		9.4		9.0		8.7		8.8		8.9		9.1							
100R15DM		1640	4258	139	656		591		537		477		415		346		271		173							
					10.6		10.3		9.9		9.8		9.6		9.7		9.8		9.9							
100R15DH		1550	4061	169	816		727		641		554		449		372		240									
					9.6		9.5		9.4		9.6		9.9		10.2		10.5									
101R10D	1/25	1050	2749	-	585		504		399																	
					4.7	.03	4.6	.03	4.2	.04																
101R11D	1/4	1140	2985	-	635		560		479																	
					5.8	.04	5.7	.04	5.3	.05																
101R15D	1/8	1550	4058	-	864		808		754		697		628		484											
					9.9	.10	9.8	.10	9.7	.11	9.4	.11	9.0	.12	8.6	.11										
101R17D	1/6	1725	4516	-	961		911		862		813		760		695		569									
					11.5	.14	11.5	.14	11.4	.15	11.3	.15	10.9	.15	10.5	.16	10.2	.15								
120R10D	1/6	1075	3376	-	1095		998		892		779															
					7.6	.08	7.6	.09	7.1	.09	6.5	.09														
120R11D	1/6	1140	3581	-	1161		1070		971		868		733													
					8.7	.09	8.7	.10	8.3	.11	7.7	.11	7.1	.11												
120R13D	1/4*	1300	4084	-	1324		1244		1161		1072		981		867											
					11.4	.14	11.4	.15	11.1	.16	10.6	.16	10.0	.16	9.4	.16										
120R15D		1550	4869	-	1579		1512		1444		1372		1298		1223		1143		1047		872					
					14.9	.24	14.9	.25	14.9	.26	14.5	.26	14.2	.27	13.9	.27	13.5	.28	13.2	.28	13.0	.27				
120R17D	1/3	1725	5417	-	1757		1697		1637		1574		1509		1442		1374		1304		1227		946			
					17.6	.33	17.6	.34	17.6	.35	17.4	.36	17.1	.37	16.7	.37	16.4	.37	16.1	.38	15.8	.38	15.2	.36		
135R10D	1/6	1075	3795	-	1656		1550		1441		1324		1177													
					9.6	.14	9.6	.15	9.2	.16	8.6	.16	8.0	.16												
135R11D	1/6	1140	4029	-	1756		1657		1555		1447		1325		1140		1325									
					11.2	.16	11.2	.18	10.9	.18	10.3	.19	9.7	.19	9.1	.19	9.7	.19								
135R13D	1/2*	1300	4595	-	2002		1915		1827		1736		1640		1535		1640		1152							
					14.6	.24	14.6	.26	14.5	.27	14.0	.28	13.5	.28	12.8	.28	13.5	.28	11.8	.27						
135R15D		1550	5478	-	2387		2315		2241		2167		2091		2012		2091		1841		1736		1358			
					19.0	.41	19.0	.43	19.0	.44	18.8	.46	18.4	.47	18.1	.47	18.4	.47	17.5	.48	17.1	.48	16.5	.45		
135R17D	3/4	1725	6089	-	2657		2592		2526		2459		2392		2323		2253		2180		2103		1922			
					23	.56	23	.58	23	.60	23	.62	23	.63	23	.64	22	.65	22	.65	22	.66	21	.67		

Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown for models 70 - 100 is nominal. Performance is based on actual speed of test. Speed (RPM) for all other models is constant and based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels. *Motor is a 2-speed 1300/1550 RPM motor.

ACRUD / ACRUD-HP / ACRUD-XP Performance Data

150-180 ACRUD

Cat. No.	Mtr. HP	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
150R10D	1/3	1075	4225	2272	2154	2035	1910	1775	1601	1258															
				12.1 .23	12.1 .25	11.9 .26	11.4 .27	10.8 .27	10.2 .27	9.6 .25															
150R11D	1/3	1140	4477	2409	2298	2186	2071	1948	1808	1948															
				13.9 .27	13.9 .29	13.7 .31	13.3 .32	12.7 .32	12.1 .32	12.7 .32															
150R13D	3/4*	1300	5105	2747	2650	2553	2453	2351	2244	2351	1989	1791													
				18.0 .41	18.0 .43	18.0 .45	17.6 .46	17.2 .47	16.6 .47	17.2 .47	15.6 .48	15.1 .48													
150R15D	3/4*	1550	6087	3275	3194	3113	3030	2947	2862	2947	2685	2590	2365	1979											
				24 .69	24 .72	24 .74	24 .76	23 .78	23 .79	23 .78	22 .80	22 .81	21 .82	21 .79											
165R10D	1/3	1075	4644	2925	2728	2543	2359	2156	1981	1696															
				14.9 .37	14.9 .38	14.8 .39	14.4 .39	13.8 .39	13.3 .39	12.8 .39															
180R10D	3/4	1075	5066	4065	3936	3805	3667	3518	3344	3518	2899	2646													
				16.4 .61	16.4 .63	16.3 .65	15.6 .67	14.9 .69	14.4 .70	14.9 .69	13.6 .70	13.2 .69													
180R11D	3/4	1140	5369	4310	4189	4066	3939	3803	3653	3474															
				17.9 .73	17.9 .75	17.9 .77	17.2 .79	16.5 .81	15.9 .83	15.5 .84	15.2 .84	14.8 .83													

150-195 ACRUD-HP

Cat. No.	Mtr. HP	Fan RPM	Tip Speed	0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
150RH10D	1/6	1075	4222	988	913	817	711	579																	
				6.4 .12	6.5 .12	6.5 .13	6.4 .13	5.9 .13																	
150RH11D	1/4	1140	4477	1055	987	904	804	696	566																
				7.2 .14	7.2 .15	7.3 .15	7.3 .15	6.9 .15	6.4 .15																
150RH13D	1/3*	1300	5105	1220	1163	1099	1022	934	846	736	623														
				9.2 .2	9.2 .21	9.1 .22	9.3 .23	9.5 .23	9.1 .23	8.6 .23	8.1 .22														
150RH15D	1/3*	1550	6087	1475	1428	1379	1326	1266	1196	1122	1049	872	668												
				12.4 .34	12.4 .35	12.3 .36	12.2 .37	12.3 .38	12.4 .38	12.4 .39	12.3 .39	11.4 .38	10.6 .36												
150RH17D	1/2	1725	6774	1651	1609	1566	1521	1473	1420	1359	1293	1161	1005	834											
				14.8 .47	14.8 .48	14.8 .49	14.8 .5	14.7 .51	14.7 .52	14.6 .53	14.6 .53	14.4 .53	13.7 .53	13.1 .51											
165RH10D	1/3	1075	4644	1830	1742	1633	1514	1375	1175																
				8.9 .22	8.7 .23	8.5 .24	8.3 .25	8.1 .25	8.1 .25																
165RH11D	1/3	1140	4924	1950	1869	1772	1662	1546	1393	1194															
				9.9 .26	9.7 .27	9.5 .28	9.3 .29	9.1 .3	9.0 .3	9.0 .29															
165RH13D	3/4*	1300	5616	2244	2176	2100	2012	1915	1816	1704	1556														
				12.6 .38	12.6 .39	12.3 .41	11.9 .42	11.6 .43	11.6 .44	11.4 .44	11.5 .44														
165RH15D	3/4*	1550	6696	2699	2643	2585	2522	2451	2373	2292	2210	2027	1765	1428											
				16.5 .63	16.5 .65	16.5 .67	16.2 .69	15.9 .7	15.6 .72	15.4 .73	15.1 .74	14.8 .75	14.8 .74	15.0 .72											
195RH10D	3/4	1075	5488	3522	3402	3274	3127	2964	2791	2604	2392														
				14.7 .57	14.7 .6	14.3 .62	13.9 .63	13.3 .65	12.6 .66	11.9 .67	11.2 .67														
195RH11D	3/4	1140	5820	3748	3637	3519	3388	3240	3083	2917	2738	2296													
				16.4 .67	16.4 .7	16.2 .73	15.7 .75	15.3 .76	14.4 .77	13.8 .79	13.1 .8	11.9 .79													

165-195 ACRUD-XP

Cat. No.	Mtr. HP	Fan RPM	Tip Speed	0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
165RX10D	1/6	1075	4644	884		833		784		718		648		550											
				7.4	.1	7.1	.1	6.8	.11	6.5	.12	6.3	.12	6.1	.12										
165RX11D	1/4	1140	4924	945		895		850		795		728		662		547									
				8.2	.11	7.9	.12	7.7	.13	7.4	.14	7.1	.14	6.9	.15	6.7	.15								
165RX13D	1/3*	1300	5616	1093		1045		1005		965		918		859		802		741		512					
				10.3	.16	10.1	.17	9.9	.18	9.6	.19	9.4	.2	9.1	.21	8.8	.21	8.7	.22	8.4	.21				
165RX15D		1550	6696	1321		1278		1241		1207		1174		1139		1099		1051		954		839		635	
				13.9	.27	13.8	.28	13.6	.3	13.4	.31	13.2	.32	12.9	.33	12.7	.34	12.5	.35	12.0	.36	11.7	.37	11.4	.36
165RX17D	1/2	1725	7451	1480		1441		1404		1372		1342		1312		1282		1248		1166		1078		988	
				16.3	.37	16.1	.39	16.0	.4	15.8	.41	15.7	.43	15.5	.44	15.3	.45	15.0	.46	14.6	.48	14.2	.49	13.9	.51
180RX10D	1/3	1075	5066	1160		1102		1041		984		930		857		741		614							
				8.7	.14	8.4	.15	8.0	.16	7.8	.17	7.6	.17	7.6	.18	7.6	.19	7.7	.19						
180RX11D	1/4	1140	5372	1236		1182		1125		1069		1018		964		884		773							
				9.6	.16	9.3	.17	9.0	.19	8.7	.19	8.5	.2	8.4	.21	8.4	.22	8.5	.23						
180RX13D	1/2*	1300	6126	1423		1377		1329		1278		1229		1183		1139		1089		918		698			
				12.3	.24	12.0	.25	11.7	.26	11.3	.28	11.1	.29	10.9	.3	10.8	.31	10.7	.32	10.7	.34	11.0	.32		
180RX15D		1550	7304	1713		1675		1636		1595		1553		1511		1470		1430		1356		1266		1112	
				16.9	.39	16.5	.41	16.2	.43	15.8	.44	15.5	.46	15.2	.47	15.0	.49	14.9	.5	14.7	.52	14.5	.54	14.6	.57
180RX17D	3/4	1725	8129	1914		1880		1846		1810		1774		1736		1698		1660		1589		1522		1448	
				19.7	.54	19.4	.55	19.1	.57	18.8	.59	18.5	.61	18.2	.63	18.1	.64	17.9	.66	17.7	.69	17.6	.71	17.4	.74
195RX10D	1/3	1075	5488	1497		1429		1362		1296		1226		1150		1066		961							
				9.5	.21	9.1	.22	8.7	.23	8.3	.25	8.0	.26	7.8	.27	7.5	.28	7.2	.28						
195RX11D	1/3	1140	5820	1596		1531		1468		1406		1342		1274		1200		1119		883					
				10.6	.24	10.2	.26	9.7	.27	9.4	.29	9.1	.3	8.8	.31	8.5	.32	8.3	.33	7.7	.33				
195RX13D	3/4*	1300	6637	1837		1780		1723		1669		1614		1559		1501		1440		1307		1129			
				13.7	.35	13.2	.37	12.8	.39	12.3	.41	11.9	.42	11.6	.44	11.3	.45	11.1	.46	10.7	.48	10.1	.5		
195RX15D		1550	7913	2210		2162		2114		2067		2021		1975		1929		1883		1787		1684		1571	
				18.8	.59	18.3	.61	17.8	.64	17.4	.66	17.0	.68	16.6	.7	16.2	.72	15.9	.74	15.3	.77	15.0	.79	14.7	.82

Catalog Number	HP	Fan RPM	Tip Speed	Max Watts	CFM at Static Pressure															
					0.00" SP	0.125" SP	0.250" SP	0.375" SP	0.500" SP	0.625" SP	0.750" SP	0.875" SP	1.000" SP	1.250" SP	1.500" SP					
					CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM				
					Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts					
70R17DEC	1/4	429	784	5	74															
					0.2 5															
		861	1581	12	149															
					1.6 12															
		1293	2369	25	223	140														
			4.7 25	4.1 21																
		1725	3160	49	298	238	172	94												
					6.4 49	5.7 45	5.0 38	4.3 30												
90R17DEC	1/4	465	1095	7	195															
					0.2 7															
		885	2085	24	372	218														
					3.4 24	2.5 20														
		1305	3074	62	548	456	345	190												
			8.6 62	7.7 58	6.9 53	5.9 41														
		1725	4064	132	725	659	583	500	405	289										
					12.8 132	12.1 128	11.4 124	10.7 117	9.9 107	9.0 90										
100R17DEC	1/4	468	1225	7	239															
					0.2 7															
		887	2322	28	454	305														
					2.9 28	2.7 26														
		1306	3419	75	668	578	470													
			7.7 75	7.6 74	7.4 70															
		1725	4516	163	882	817	744	664	572	470										
					11.5 163	11.5 162	11.4 159	11.3 154	10.9 147	10.5 137										
101R17DEC	1/4	468	1225	6	260															
					0.2 6															
		887	2322	23	494	392														
					2.9 21	2.7 23														
		1306	3419	61	727	653	589	512	359											
			7.7 54	7.6 56	7.4 59	6.9 61	6.5 55													
		1725	4516	131	960	902	850	803	750	690	626	465								
					11.5 114	11.5 117	11.4 121	11.3 124	10.9 128	10.5 131	10.2 129	9.9 116								
120R17DEC	1/2	471	1479	12	484															
					0.8 12															
		889	2792	55	914	795	651													
					4.9 50	4.8 54	4.1 55													
		1307	4106	156	1343	1264	1182	1093	992	879										
			11.5 141	11.5 146	11.2 152	10.7 155	10.1 156	9.5 155												
		1725	5419	346	1773	1713	1652	1591	1527	1459	1386	1307	1224							
					17.6 311	17.6 318	17.6 326	17.4 332	17.1 339	16.7 343	16.4 346	16.1 346	15.8 344							
135R17DEC	3/4	561	1982	31	845	607														
					2.3 29	1.9 31														
		949	3354	118	1429	1303	1165	1006												
					7.4 106	7.4 112	6.9 117	6.3 118												
		1337	4725	311	2014	1925	1835	1740	1638	1526	1412	1284								
			15.1 276	15.1 285	15.1 294	14.7 301	14.2 307	13.5 309	13.1 311	12.7 309										
		1725	6096	653	2598	2529	2460	2390	2319	2245	2167	2085	1998	1820	1606					
					22 578	22 590	22 602	22 613	22 623	22 632	21 640	21 646	21 649	20 653	19.5 644					

Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels.

ACRUDEC-HP / ACRUDEC-XP Performance Data

150 ACRUDEC-HP

Catalog Number	HP	Fan RPM	Tip Speed	Max Watts	CFM at Static Pressure																					
					0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
					Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts
150RH17DEC	1/2	543	2132	20	523		355																			
					1.4 17	1.4 20																				
		937	3679	78	903		819		724		610		471													
					5.0 65	5.0 71	5.0 76	4.8 78	4.4 77																	
		1331	5226	209	1282		1224		1164		1101		1032		953		871		783		677					
					9.6 171	9.6 179	9.6 186	9.5 195	9.7 201	9.8 205	9.7 208	9.1 209	8.7 206													
		1725	6774	443	1662		1617		1572		1525		1478		1429		1377		1321		1260		1134		996	
					14.8 360	14.8 370	14.8 380	14.8 390	14.8 401	14.7 411	14.7 421	14.6 428	14.6 433	14.4 441	13.7 443											

165-180 ACRUDEC-XP

Catalog Number	HP	Fan RPM	Tip Speed	Max Watts	CFM at Static Pressure																					
					0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
					Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts
165RX17DEC	1/2	528	2280	20	465		350																			
					2.0	17	1.4	20																		
		927	4004	92	816		756		692		621		548		451											
					6.1	66	5.7	73	5.3	80	5.0	86	4.8	92	4.6	90										
		1326	5727	251	1167		1125		1083		1039		993		946		896		845		793		664			
					10.9	176	10.7	186	10.5	197	10.3	207	10.1	217	9.8	226	9.5	234	9.2	242	9.0	251	8.7	250		
		1725	7451	522	1518		1486		1454		1421		1388		1354		1320		1284		1248		1171		1093	
					16.4	376	16.3	389	16.1	402	16.0	416	15.8	429	15.7	443	15.5	456	15.3	469	15.0	481	14.6	501	14.2	522
180RX17DEC	3/4	555	2615	37	639		524		385																	
					2.6	28	2.1	34	1.8	37																
		945	4453	149	1089		1022		954		886		819		736		636		534							
					7.4	107	7.0	116	6.6	125	6.3	133	6.1	139	6.0	146	6.1	149	6.2	148						
		1335	6291	400	1538		1491		1443		1395		1347		1298		1251		1205		1157		1038		897	
					13.3	280	13.0	293	12.6	307	12.3	320	12.0	332	11.6	344	11.4	354	11.3	364	11.2	372	11.1	390	11.5	400
		1725	8128	774	1987		1950		1914		1877		1840		1803		1766		1728		1691		1617		1545	
					20	589	19.7	607	19.4	624	19.1	641	18.8	658	18.5	675	18.2	691	18.1	707	17.9	722	17.7	750	17.6	774

Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels.

Description: Fan shall be a spun aluminum, roof mounted, belt driven, upblast centrifugal exhaust ventilator.

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: Fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The spun aluminum structural components shall be constructed of minimum 16 gauge marine alloy aluminum, bolted to a rigid aluminum support structure. The aluminum base shall have a one piece inlet spinning and continuously welded curb cap corners for maximum leak protection. The windband shall have a rolled bead for added strength. A two piece top cap shall have stainless steel quick release latches to provide access into the motor compartment without the use of tools. An integral conduit chase shall be provided into the motor compartment to facilitate wiring connections. The motor, bearings and drives shall be mounted on a minimum 14 gauge steel power assembly, isolated from the unit structure with rubber vibration isolators. These components shall be enclosed in a weather-tight compartment, separated from the exhaust airstream. Lifting lugs shall be provided to help prevent damage from improper lifting. 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.

Wheel: Wheel shall be centrifugal backward inclined, constructed of 100 percent aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

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

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

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

Product: Fans shall be models ACRUB, ACRUB-HP or ACRUB-XP as manufactured by LOREN COOK COMPANY of Springfield, Missouri.

Dimensions

Size	A	B	C			D	E Sq.	Roof Opening Square*	Ship. Wt.
			ACRUB	ACRUB-HP	ACRUB-XP				
100	12-1/2	25-1/4	20-3/16	-	-	2	18	13-1/2	30
120	19-1/16	30-3/16	28-1/4	-	-	2	20	15-1/2	61
135	19-1/16	30-3/16	28-5/8	-	-	2	20	15-1/2	66
150	20-15/16	34-11/16	30-1/4	27-1/2	-	2	24	19-1/2	77
165	20-15/16	34-11/16	30-3/4	27-3/4	26-11/16	2	24	19-1/2	83
180	24-13/16	39-7/16	35-7/8	33-3/8	31-9/16	3	30	25-1/2	100
195	24-13/16	39-7/16	36-3/8	33-1/2	32-1/8	3	30	25-1/2	110
210	25-15/16	45-1/4	38-3/8	35-3/8	32-3/4	3	30	25-1/2	220
225	25-15/16	45-1/4	38-1/8	35-1/2	33-5/16	3	30	25-1/2	242
245	28-1/2	49-1/4	41-1/16	37-5/16	34-1/16	3	30	25-1/2	264
270	28-1/2	49-1/4	41-1/16	37-5/16	35	3	36	31-1/2	286
300	33-7/8	54-1/4	49-15/16	45-15/16	41-7/16	3	36	31-1/2	336
330	34-1/8	54-1/4	50-7/16	46-11/16	43-1/8	3	42	37-1/2	374
365	36-3/8	64-1/4	52-7/16	48-7/16	44-1/4	3	42	37-1/2	420
402	37-7/8	64-1/4	54-11/16	-	-	3	48	43-1/2	484
445	31-5/8	76-1/4	57-3/16	-	-	3	54	49-1/2	556
490	33-3/8	76-1/4	58-1/16	-	-	3	54	49-1/2	715

All dimensions in inches. *Roof opening size for curbs supplied by LOREN COOK COMPANY only. Weights in pounds, less motor.

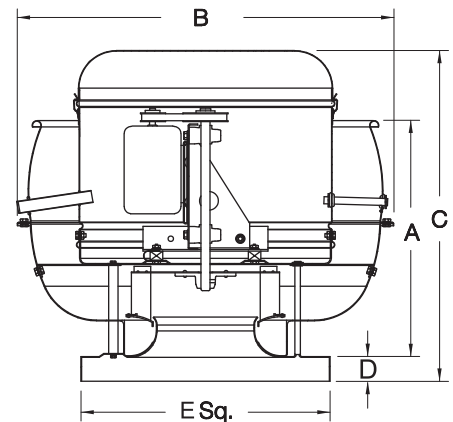
Upblast Centrifugal Exhaust Ventilator Roof Mounted Belt Drive



LOREN COOK COMPANY certifies that the ACRUB, ACRUB-HP and ACRUB-XP 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 ACRUB, ACRUB-HP and ACRUB-XP are furnished standard with UL 705 and cUL 705 listings (Power Ventilator/ZACT) when furnished with factory supplied motor.



ACRUB Performance Data

100 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
100R2B	1/6* 15 lbs.	740	1937	412		279																			
				1.7	.01	1.6	.01																		
		940	2460	524		433																			
				3.5	.02	3.3	.02																		
		1140	2984	635		560		479																	
				5.8	.04	5.7	.04	5.3	.05																
		1340	3508	747		683		619		542															
100R3B	1/4* 15 lbs.			8.0	.06	7.9	.07	7.7	.07	7.3	.07														
		1540	4031	858		802		747		690		619		469											
				9.8	.10	9.7	.10	9.6	.11	9.3	.11	8.9	.11	8.5	.10										
		1742	4560	970		921		872		824		772		709		592									
				11.7	.14	11.6	.15	11.5	.15	11.4	.16	11.1	.16	10.7	.16	10.3	.16								
		1807	4730	1007		959		912		865		817		761		678		531							
				12.4	.16	12.3	.16	12.3	.17	12.2	.17	11.9	.18	11.5	.18	11.2	.18	10.9	.16						
	15 lbs.	1872	4900	1043		997		951		906		860		810		745		626							
				13.1	.17	13.1	.18	13.0	.19	12.9	.19	12.7	.19	12.4	.20	12.1	.20	11.8	.19						
		1937	5071	1079		1035		991		947		903		856		801		714		576					
				14.1	.19	14.0	.20	13.9	.21	13.8	.21	13.6	.21	13.2	.22	13.0	.22	12.77	.22	12.4	.20				
	15 lbs.	2002	5241	1115		1072		1030		988		945		901		851		786		671					
				15.2	.21	15.1	.22	15.0	.23	14.9	.23	14.8	.24	14.4	.24	14.0	.25	13.6	.25	13.3	.24				

*1/6 & 1/4 HP motor available only in single phase ODP type.

120 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
120R2B	1/6 15 lbs.	904	2840	978		865		736																	
				5.2	.04	5.0	.05	4.4	.05																
		1040	3267	1125		1028		924		792															
				7.1	.07	7.0	.08	6.6	.08	5.9	.08														
		1176	3694	1272		1186		1098		1001		868		193											
120R3B	1/4 15 lbs.			9.3	.10	9.3	.11	9.0	.11	8.3	.12	7.7	.12	7.2	.05										
		1313	4124	1420		1344		1265		1183		1092		967		651									
				11.5	.14	11.5	.15	11.3	.16	10.8	.16	10.2	.16	9.6	.16	9.0	.14								
		1378	4329	1491		1418		1343		1266		1183		1083		918									
				12.4	.16	12.4	.17	12.2	.18	11.8	.18	11.2	.19	10.7	.19	10.3	.18								
120R4B	1/3 19 lbs.	1443	4533	1561		1491		1421		1348		1271		1184		1068		836							
				13.2	.18	13.2	.19	13.1	.21	12.7	.21	12.2	.21	11.8	.22	11.5	.22	11.1	.20						
		1509	4740	1632		1566		1498		1429		1357		1279		1186		1046		664					
	19 lbs.			14.2	.21	14.2	.22	14.1	.23	13.8	.24	13.4	.24	13.1	.25	12.8	.25	12.5	.25	12.1	.19				
		1562	4907	1690		1625		1560		1494		1425		1352		1269		1161		968					
				15.1	.23	15.1	.24	15.1	.26	14.8	.26	14.4	.27	14.1	.27	13.7	.27	13.5	.28	13.2	.26				
		1615	5073	1747		1685		1622		1558		1492		1423		1347		1256		1123					
	19 lbs.			16.0	.26	16.0	.27	16.0	.28	15.7	.29	15.3	.30	15.0	.30	14.7	.30	14.4	.30	14.1	.30				
		1669	5243	1805		1745		1685		1623		1560		1494		1423		1343		1239					
	19 lbs.			16.8	.28	16.8	.30	16.8	.31	16.5	.32	16.2	.32	15.8	.33	15.5	.33	15.2	.34	14.9	.34				

135 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
135R2B	1/6 15 lbs.	837	2958	1289		1152		1001		676															
				5.7	.06	5.6	.07	5.0	.08	4.4	.07														
		957	3382	1474		1355		1230		1081															
135R3B	1/4 15 lbs.			7.6	.10	7.5	.11	7.1	.11	6.5	.11														
		1078	3809	1660		1555		1447		1330		1184													
				9.8	.14	9.8	.15	9.5	.16	8.9	.16	8.3	.16												
		1132	4000	1744		1643		1541		1432		1308		1113											
135R4B	1/3 19 lbs.			11.0	.16	11.0	.17	10.7	.18	10.1	.18	9.5	.19	8.9	.19										
		1186	4191	1827		1731		1634		1532		1420		1275		971									
				12.2	.18	12.2	.20	12.0	.21	11.5	.21	10.8	.22	10.2	.22	9.7	.20								
135R5B	1/2 23 lbs.	1240	4382	1910		1819		1726		1629		1527		1406		1219									
				13.5	.21	13.5	.22	13.3	.23	12.9	.24	12.2	.24	11.6	.25	11.0	.24								
		1306	4615	2012		1925		1837		1747		1652		1548		1415		1182							
	19 lbs.			14.7	.24	14.7	.26	14.6	.27	14.1	.28	13.6	.28	12.9	.29	12.4	.29	12.0	.28						
		1371	4845	2112		2029		1946		1860		1772		1677		1569		1419		1130					
				15.7	.28	15.7	.30	15.7	.31	15.3	.32	14.9	.33	14.2	.33	13.8	.33	13.5	.33	13.1	.30				
	23 lbs.	1473	5206	2269		2192		2115		2036		1955		1871		1781		1677		1538					
				17.4	.35	17.4	.37	17.4	.38	17.1	.40	16.8	.40	16.5	.41	16.1	.41	15.7	.41	15.4	.42				
	23 lbs.	1574	5562	2424		2353		2280		2207		2132		2055		1975		1889		1791		1470			
				19.5	.43	19.5	.45	19.5	.46	19.3	.48	19.0	.49	18.7	.49	18.3	.50	18.0	.50	17.7	.51	17.1	.49		

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

150 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
150R2B	1/6 15 lbs.	760	2984	1606		1439		1254		889															
				6.0	.08	5.9	.09	5.3	.10	4.7	.09														
		832	3267	1758		1606		1444		1238															
				7.1	.11	7.0	.12	6.6	.12	5.9	.13														
150R3B	1/4 15 lbs.	904	3550	1910		1770		1625		1462		1193													
				8.4	.14	8.4	.15	8.0	.16	7.4	.16	6.8	.16												
		972	3817	2054		1924		1790		1647															
				9.7	.17	9.7	.19	9.4	.20	8.9	.20	8.3	.20												
150R4B	1/3 19 lbs.	1040	4084	2198		2076		1952		1822		1677		1469											
				11.3	.21	11.3	.22	11.1	.24	10.5	.24	9.9	.25	9.4	.25										
		1149	4512	2428		2318		2207		2093		1971		1835		1648									
				14.1	.28	14.1	.30	14.0	.31	13.6	.32	13.0	.33	12.4	.33	11.8	.33								
150R5B	1/2 23 lbs.	1235	4849	2610		2508		2405		2299		2190		2074		1940		1756							
				16.6	.35	16.6	.37	16.5	.39	16.1	.40	15.7	.40	15.0	.41	14.4	.41	13.8	.41						
		1320	5183	2789		2694		2598		2500		2400		2295		2183		2052		1877					
				18.4	.43	18.4	.45	18.4	.47	18.0	.48	17.6	.49	17.1	.50	16.5	.50	16.0	.51	15.7	.51				
150R6B	3/4 31 lbs.	1420	5576	3001		2912		2823		2733		2641		2546		2447		2342		2221		1834			
				20	.53	20	.55	20	.58	20	.59	19.8	.61	19.4	.61	19.0	.62	18.6	.62	18.3	.63	17.6	.61		
		1519	5965	3210		3127		3044		2960		2875		2788		2698		2605		2506		2260			
				23	.65	23	.67	23	.70	23	.72	22	.73	22	.75	22	.75	21	.76	21	.76	20	.77		

150 ACRUB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
150RH2B	1/6 15 lbs.	881	3459	672		536		339																	
				4.4	.07	4.1	.07	3.7	.06																
		1162	4563	1012		932		835		606															
				7.4	.15	7.5	.16	7.6	.16	6.8	.16														
150RH3B	1/4 15 lbs.	1249	4904	1108		1039		954		763		491													
				8.5	.19	8.6	.20	8.7	.20	8.2	.20	7.3	.18												
		1336	5246	1202		1141		1069		899		689													
				9.6	.23	9.6	.24	9.8	.24	9.8	.25	8.7	.24												
150RH4B	1/3 19 lbs.	1407	5525	1277		1221		1158		1000		818		587											
				10.6	.26	10.4	.27	10.6	.28	10.9	.29	10.0	.29	9.1	.27										
		1478	5804	1352		1300		1242		1098		940		743											
				11.4	.30	11.3	.31	11.3	.32	11.6	.34	11.1	.33	10.2	.33										
150RH5B	1/2 23 lbs.	1587	6232	1466		1419		1368		1245		1102		940		753									
				12.9	.37	12.8	.38	12.8	.39	12.8	.41	12.9	.42	12.0	.41	11.3	.40								
		1696	6660	1579		1536		1489		1384		1253		1118		952		775							
				14.4	.45	14.4	.46	14.3	.47	14.3	.49	14.2	.51	13.9	.50	13.2	.50	12.6	.48						
150RH6B	3/4 31 lbs.	1824	7162	1711		1671		1629		1538		1427		1301		1174		1014		852					
				16.2	.56	16.2	.57	16.2	.58	16.2	.60	16.2	.62	16.1	.63	15.6	.63	15.1	.62	14.7	.60				
		1952	7665	1842		1805		1766		1685		1591		1477		1361		1239		1087		938			
				18.5	.68	18.5	.69	18.5	.71	18.4	.73	18.3	.75	18.3	.77	18.3	.77	17.8	.77	17.4	.76	17.1	.74		

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

ACRUB / ACRUB-HP / ACRU-XP Performance Data

165 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
165R2B	1/6	686	2963	1929	1725	1500	1024																		
165SC2B	15 lbs.	771	3330	6.3	.10	6.2	.11	5.5	.11	4.8	.10														
				2168	1988	1797	1564																		
165R3B	1/4	829	3581	2331	2164	1990	1796	1492																	
				8.7	.17	8.7	.19	8.3	.20	7.7	.20	7.1	.20												
165SC3B	15 lbs.	887	3831	2494	2338	2177	2004	1792	1337																
				10.0	.21	10.0	.23	9.6	.24	9.1	.24	8.5	.25	7.9	.22										
165R4B	1/3	933	4030	2624	2475	2323	2163	1981	1706																
				11.1	.24	11.1	.26	10.8	.28	10.3	.28	9.7	.29	9.1	.29										
165SC4B	19 lbs.	980	4233	2756	2615	2471	2320	2157	1950	1550															
				12.3	.28	12.3	.30	12.1	.32	11.7	.33	11.0	.33	10.4	.33	9.9	.31								
165R5B	1/2	1052	4544	2958	2827	2694	2556	2411	2249	2033	1608														
				14.3	.35	14.3	.37	14.1	.39	13.7	.40	13.2	.41	12.6	.41	12.1	.41	11.6	.38						
165SC5B	23 lbs.	1125	4859	3164	3041	2917	2790	2657	2517	2356	2138	1723													
				16.4	.43	16.4	.45	16.4	.47	16.0	.49	15.5	.49	14.9	.50	14.4	.50	13.9	.51	13.5	.46				
165R6B	3/4	1210	5226	3403	3289	3174	3057	2936	2811	2677	2525	2323													
				19.2	.53	19.2	.56	19.2	.58	18.8	.60	18.5	.61	17.9	.62	17.2	.62	16.6	.63	16.2	.63				
165SC6B	31 lbs.	1295	5594	3642	3535	3428	3319	3208	3094	2975	2848	2705	2251												
				22	.65	22	.68	22	.70	21	.72	21	.74	21	.75	20	.76	19.4	.76	18.9	.77	18.1	.75		

165 ACRUB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
165RH2B	1/6 15 lbs.	932	4025	1450	1314	1141																			
				6.7	.16	6.5	.16	6.2	.16																
165RH3B	1/4 15 lbs.	1072	4630	1736	1626	1507	1165																		
				8.7	.23	8.4	.24	8.3	.25	8.0	.24														
165RH4B	1/3 19 lbs.	1128 1185	4872 5118	1846 1957	1747 1866	1635 1762	1355 1527	1142																	
				9.5	.26	9.3	.28	9.1	.29	8.8	.29														
165RH5B	1/2 23 lbs.	1273 1361	5498 5879	2125 2291	2046 2221	1954 2140	1752 1956	1466 1742	1421																
				12.1	.37	11.8	.39	11.5	.40	11.1	.41	11.2	.41												
165RH6B	3/4 31 lbs.	1463 1566	6319 6764	2482 2673	2419 2615	2349 2553	2184 2408	2007 2246	1771 2069	1448 1819															
				15.1	.55	14.9	.57	14.7	.59	14.1	.61	13.7	.63	13.7	.63	13.8	.61								
165RH7B	1 36 lbs.	1646 1727	7110 7460	2820 2969	2767 2918	2709 2865	2577 2745	2426 2604	2268 2457	2074 2297	1809 2082	1467 1817													
				18.2	.77	18.2	.79	18.0	.81	17.4	.85	16.9	.88	16.4	.90	16.2	.90	16.1	.88	16.2	.85				
				19.6	.89	19.6	.91	19.5	.93	19.0	.97	18.5	1.01	18.1	1.03	17.8	1.04	17.6	1.03	17.4	1.02				

165 ACRUB-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
165RX3B	1/4 15 lbs.	1355	5853	814	637																				
				9.4	.24	9.1	.25																		
165RX4B	1/3 19 lbs.	1498	6470	988	889	728																			
				11.7	.32	11.3	.33	10.9	.33																
165RX5B	1/2 23 lbs.	1609 1720	6950 7429	1121 1243	1025 1160	931 1072	766 981	519 818																	
				13.3	.38	12.9	.40	12.5	.41	12.3	.41	12.0	.37												
165RX6B	3/4 31 lbs.	1850 1979	7991 8548	1503 1601	1448 1551	1382 1495	1304 1427	1229 1352	1065 1281	926 1207	753 947														
				16.9	.56	16.5	.58	16.1	.59	15.7	.61	15.5	.62	15.3	.63	15.2	.61								
165RX7B	1 36 lbs.	2081 2183	8989 9129	191.1 1698	186.6 1651	181.1 1602	178.8 1544	174.7 1476	172.2 1405	171.1 1338	169.9 1170	168.8 876													
				21	.76	20	.79	20	.82	19.6	.84	19.1	.85	18.7	.87	18.6	.88	18.5	.89						
165RX8B	1-1/2 38 lbs.	2345 2507	10129 10829	1851 2003	1807 1961	1764 1921	1717 1880	1663 1836	1601 1786	1534 1729	1408 1606	1238 1488	964 1324												
				26	1.05	25	1.09	25	1.12	25	1.15	24	1.18	24	1.20	23	1.22	23	1.25	22	1.29	22	1.24		
				29	1.26	29	1.30	28	1.34	28	1.37	27	1.41	27	1.44	27	1.46	26	1.50	25	1.54	25	1.57	25	1.53

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

180 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
180R2B	1/6 15 lbs.	635	2992	2446		2214		1945		1541															
				5.9	.14	5.6	.15	5.0	.16	4.5	.16														
180R3B	1/4 15 lbs.	730	3440	2812		2612		2395		2138		1751													
				7.6	.21	7.5	.23	6.9	.24	6.5	.25	6.0	.24												
180R4B	1/3 19 lbs.	807	3802	3109		2928		2738		2526		2272		1872											
				9.3	.29	9.3	.30	8.7	.32	8.2	.33	7.7	.33	7.3	.32										
180R5B	1/2 23 lbs.	927	4368	3571		3414		3253		3082		2893		2677		2401									
				12.2	.43	12.2	.45	11.8	.47	11.2	.49	10.7	.50	10.3	.51	9.9	.50								
180R6B	3/4 31 lbs.	1066	5023	4106		3970		3832		3690		3539		3376		3199		2997		2741					
				16.1	.66	16.1	.68	16.0	.71	15.3	.73	14.6	.74	14.2	.76	13.8	.77	13.4	.77	13.0	.76				
180R7B	1 36 lbs.	1176	5541	4530		4407		4283		4155		4023		3885		3738		3579		3405		2948			
				18.6	.89	18.6	.91	18.6	.94	18.1	.96	17.4	.98	16.7	1.00	16.3	1.01	15.9	1.02	15.5	1.03	14.8	1.02		
180R8B	1-1/2 38 lbs.	1264	5956	4869		4755		4639		4522		4402		4277		4146		4007		3860		3523		3029	
				21	1.10	21	1.13	21	1.16	20	1.18	19.7	1.20	19.0	1.23	18.4	1.24	18.0	1.26	17.6	1.27	16.9	1.28	16.3	1.25
		1351	6366	5204		5097		4989		4880		4769		4655		4536		4413		4283		3999		3658	
				23	1.35	23	1.37	23	1.40	23	1.43	22	1.46	21	1.48	21	1.50	20	1.52	20	1.54	19.3	1.56	18.6	1.56
180R9B	2 50 lbs.	1419	6686	5466		5364		5262		5158		5053		4946		4835		4721		4601		4345		4054	
				24	1.56	24	1.59	24	1.62	24	1.65	24	1.68	23	1.70	23	1.73	22	1.75	22	1.77	21	1.80	20	1.81
		1488	7012	5732		5635		5537		5439		5339		5238		5134		5027		4916		4681		4423	
				26	1.80	26	1.83	26	1.86	26	1.89	26	1.92	25	1.95	25	1.98	24	2.00	24	2.02	23	2.06	22	2.08

180 ACRUB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
180RH3B	1/4 15 lbs.	897	4227	2068		1910		1724																	
				8.8	.22	8.4	.23	7.9	.24																
180RH4B	1/3 19 lbs.	992	4674	2344		2212		2060		1704															
				10.6	.30	10.3	.31	9.9	.32	8.8	.33														
180RH5B	1/2 23 lbs.	1139	5367	2759		2652		2534		2258		1939													
				13.7	.44	13.5	.46	13.1	.47	12.2	.49	11.0	.51												
180RH6B	3/4 31 lbs.	1225	5772	2998		2900		2796		2557		2278													
				15.5	.55	15.4	.56	15.1	.58	14.3	.60	13.3	.62												
		1311	6177	3234		3144		3050		2839		2592		2323											
				17.6	.66	17.5	.68	17.2	.70	16.6	.72	15.6	.75	14.4	.77										
180RH7B	1 36 lbs.	1446	6814	3602		3521		3438		3260		3057		2827		2583									
				20	.88	20	.90	20	.92	19.5	.95	18.7	.98	17.8	1.01	16.8	1.03								
180RH8B	1-1/2 38 lbs.	1553	7318	3891		3817		3741		3580		3403		3204		2984		2756							
				22	1.08	22	1.11	22	1.13	22	1.17	21	1.19	20	1.22	19.5	1.26	18.7	1.28						
		1660	7822	4178		4109		4039		3893		3735		3561		3367		3159		2945		2674			
				25	1.32	25	1.34	25	1.37	24	1.41	24	1.44	23	1.47	22	1.51	22	1.54	21	1.57	20	1.56		
180RH9B	2 50 lbs.	1744	8218	4403		4338		4271		4134		3988		3829		3655		3464		3264		3057		2785	
				27	1.52	27	1.55	27	1.57	27	1.62	26	1.66	25	1.69	25	1.72	24	1.76	23	1.80	22	1.82	22	1.80
		1829	8618	4630		4568		4505		4376		4240		4093		3935		3761		3575		3385		3185	
				29	1.75	29	1.78	29	1.80	29	1.86	28	1.90	28	1.93	27	1.96	26	2.00	26	2.05	25	2.08	24	2.10

180 ACRUB-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
180RX3B	1/4 15 lbs.	1175	5537	848		595																			
				8.9	.25	9.1	.23																		
180RX4B	1/3 19 lbs.	1300	6126	1089		918		698																	
				10.7	.32	10.7	.34	11.0	.32																
180RX5B	1/2 23 lbs.	1492	7030	1354		1274		1156		988		774													
				14.0	.45	13.7	.47	13.6	.50	14.0	.51	14.3	.48												
180RX6B	3/4 31 lbs.	1717	8091	1650		1578		1511		1436		1322		1174		1022									
				17.8	.65	17.6	.68	17.4	.70	17.3	.73	17.2	.76	17.4	.77	17.7	.76								
180RX7B	1 36 lbs.	1805	8505	1764		1694		1629		1564		1486		1368		1227									
				19.3	.74	19.1	.77	19.0	.80	18.8	.83	18.7	.85	18.7	.89	18.9	.90								
		1894	8925	1879		1811		1746		1685		1622		1543		1422		1155							
				21	.84	21	.88	21	.91	20	.94	20	.96	20	.99	20	1.03	21	1.02						
180RX8B	1-1/2 38 lbs.	2034	9585	2058		1993		1930		1871		1814		1756		1688		1466		1216					
				24	1.02	23	1.06	23	1.10	23	1.13	23	1.16	23	1.19	23	1.22	23	1.28	23	1.27				
		2175	10249	2235		2175		2115		2056		2001		1948		1894		1760		1536		1301			
				26	1.22	26	1.27	26	1.31	26	1.34	26	1.38	26	1.41	25	1.44	25	1.51	26	1.57	26	1.55		
180RX9B	2 50 lbs.	2286	10772	2372		2316		2258		2201		2146		2094		2044		1938		1780		1558		1320	
				28	1.40	28	1.45	28	1.49	28	1.53	28	1.57	28	1.60	28	1.64	28	1.70	28	1.78	28	1.82	29	1.78
		2397	11295	2508		2455		2401		2346		2292		2240		2191		2094		1981		1802		1593	
				31	1.60	30	1.65	30	1.69	30	1.74	30	1.78	30	1.82	30	1.85	30	1.92	30	1.99	30	2.08	31	2.10

Performance certified is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for

ACRUB / ACRUB-HP / ACRU-XP Performance Data

195 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
195R2B	1/6 15 lbs.	577	2945	2774		2506		2147		1510															
				6.0	.14	5.7	.15	5.0	.16	4.6	.15														
195R3B	1/4 15 lbs.	664	3389	3192		2963		2702		2329															
				7.5	.21	7.4	.23	6.8	.24	6.3	.25														
195R4B	1/3 19 lbs.	734	3747	3528		3323		3100		2816		2454													
				9.1	.29	9.1	.31	8.5	.32	8.0	.33	7.5	.33												
195R5B	1/2 23 lbs.	842	4298	4047		3869		3683		3476		3214		2899		2513									
				11.9	.44	11.9	.46	11.5	.48	10.8	.49	10.3	.50	9.9	.50	9.5	.49								
195R6B	3/4 31 lbs.	969	4946	4658		4504		4345		4178		3995		3776		3505		3231		2865					
				15.7	.67	15.7	.69	15.5	.71	14.9	.74	14.2	.75	13.8	.76	13.4	.77	12.9	.76	12.5	.74				
195R7B	1 36 lbs.	1069	5457	5139		4999		4857		4710		4554		4384		4184		3943		3695		3009			
				19.0	.89	19.0	.92	19.0	.95	18.4	.97	17.7	1.00	17.1	1.01	16.7	1.03	16.2	1.03	15.9	1.03	15.2	.98		
195R8B	1-1/2 38 lbs.	1149	5865	5523		5393		5262		5127		4986		4837		4674		4484		4259		3792			
				21	1.11	21	1.14	21	1.17	21	1.20	20	1.22	19.4	1.24	18.8	1.26	18.4	1.28	18.0	1.28	17.3	1.27		
		1228	6269	5903		5781		5659		5534		5405		5270		5127		4970		4791		4363		3912	
				23	1.35	23	1.39	23	1.42	23	1.45	22	1.48	22	1.50	21	1.53	21	1.54	20	1.56	19.5	1.56	18.7	1.54
195R9B	2 50 lbs.	1290	6585	6201		6085		5969		5851		5729		5604		5472		5332		5178		4799		4386	
				25	1.57	25	1.60	25	1.64	25	1.67	24	1.70	24	1.73	23	1.75	22	1.78	22	1.79	21	1.81	21	1.80
		1353	6907	6504		6394		6283		6170		6056		5938		5816		5687		5550		5226		4834	
27				1.81	27	1.85	27	1.88	27	1.92	26	1.95	26	1.98	25	2.01	24	2.03	24	2.05	23	2.09	22	2.09	

195 ACRUB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
195RH3B	1/4 15 lbs.	770	3930	2251		2019		1747																	
				7.6	.23	7.1	.24	6.4	.25																
195RH4B	1/3 19 lbs.	851	4344	2571		2374		2155																	
				9.3	.31	8.8	.32	8.2	.33																
195RH5B	1/2 23 lbs.	977	4987	3044		2893		2718		2318															
				12.3	.45	11.8	.47	11.2	.48	10.0	.50														
195RH6B	3/4 31 lbs.	1051	5365	3315		3182		3029		2680		2254													
				14.1	.56	13.7	.58	13.3	.59	12.0	.62	10.6	.63												
		1124	5738	3579		3459		3324		3012		2656		2179											
				16.0	.68	15.7	.70	15.3	.72	13.9	.74	12.7	.77	11.4	.75										
195RH7B	1 36 lbs.	1240	6330	3994		3888		3775		3513		3217		2883		2453									
				18.8	.89	18.8	.92	18.4	.95	17.6	.98	16.1	1.01	14.7	1.03	13.6	1.01								
195RH8B	1-1/2 38 lbs.	1332	6799	4319		4223		4121		3892		3629		3342		3016		2594							
				21	1.10	21	1.13	21	1.16	19.9	1.20	18.6	1.23	17.3	1.26	16.0	1.28	14.9	1.25						
		1424	7269	4643		4554		4461		4259		4023		3768		3491		3176		2773					
				23	1.33	23	1.37	23	1.40	22	1.46	21	1.49	19.8	1.52	18.7	1.55	17.6	1.56	16.6	1.53				
195RH9B	2 50 lbs.	1497	7642	4899		4814		4727		4541		4327		4091		3840		3565		3250		2832			
				25	1.54	25	1.58	25	1.61	24	1.68	23	1.72	22	1.75	21	1.75	19.7	1.81	18.8	1.81	17.9	1.76		
		1570	8015	5154		5073		4991		4818		4326		4404		4173		3926		3654		3342		2913	
				26	1.77	26	1.81	26	1.85	26	1.91	25	1.97	24	2.00	23	2.03	22	2.07	21	2.09	20	2.09	19.2	2.02

195 ACRUB-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
195RX3B	1/4 15 lbs.	1030	5258	823																					
				6.5	.25																				
195RX4B	1/3 19 lbs.	1139	5814	1117		879																			
				8.2	.33	7.7	.33																		
195RX5B	1/2 23 lbs.	1308	6677	1455		1324		1153		901															
				11.2	.47	10.8	.49	10.3	.51	9.7	.48														
195RX6B	3/4 31 lbs.	1505	7683	1806		1706		1596		1474		1315		1102											
				15.1	.68	14.6	.71	14.3	.74	13.8	.76	13.2	.77	12.7	.75										
195RX7B	1 36 lbs.	1583	8081	1939		1846		1747		1639		1517		1356		1150									
				16.5	.78	15.9	.81	15.6	.84	15.4	.87	14.7	.89	14.2	.90	13.7	.87								
		1660	8474	2068		1981		1889		1791		1686		1564		1402									
				17.9	.88	17.4	.92	16.9	.95	16.7	.98	16.4	1.01	15.8	1.03	15.2	1.04								
195RX8B	1-1/2 38 lbs.	1783	9102	2270		2190		2108		2022		1931		1834		1726		1423							
				20	1.06	19.7	1.11	19.2	1.15	18.8	1.18	18.6	1.21	18.4	1.24	17.8	1.27	16.8	1.27						
		1906	9730	2469		2394		2319		2242		2162		2077		1987		1780		1471					
195RX9B	2 50 lbs.	2003	10225	2624		2553		2482		2410		2336		2259		2177		2001		1775		1456			
				25	1.45	24	1.51	23	1.56	23	1.60	23	1.64	22	1.68	22	1.71	22	1.78	21	1.82	19.8	1.77		
		2100	10720	2778		2710		2643		2575		2506		2434		2360		2201		2020		1775		1455	
				26	1.65	26	1.71	25	1.76	25	1.81	25	1.86	24	1.90	24	1.94	24	2.01	23	2.07	22	2.10	21	2.01

210 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
210R2B	1/6 15 lbs.	510	2803	3062		2734		2263																	
				5.6	.14	5.2	.16	4.6	.16																
210R3B	1/4 15 lbs.	586	3221	3518		3238		2903		2424															
				7.2	.21	7.0	.23	6.3	.24	5.9	.24														
210R4B	1/3 19 lbs.	648	3562	3891		3639		3360		2977		2503													
				8.5	.29	8.5	.31	7.7	.33	7.2	.33	6.8	.32												
210R5B	1/2 23 lbs.	744	4090	4467		4249		4019		3754		3400		3008											
				10.8	.44	10.8	.46	10.3	.48	9.8	.50	9.3	.50	8.8	.50										
210R6B	3/4 31 lbs.	857	4711	5145		4957		4763		4556		4320		4021		3686		3309							
				14.3	.67	14.3	.69	14.0	.72	13.4	.74	12.8	.76	12.4	.77	11.9	.77	11.5	.75						
210R7B	1 36 lbs.	945	5195	5674		5503		5329		5148		4952		4731		4458		4153		3844					
				17.2	.89	17.2	.92	17.2	.95	16.6	.98	16.0	1.00	15.4	1.02	15.0	1.03	14.6	1.03	14.2	1.02				
210R8B	1-1/2 38 lbs.	1015	5580	6094		5935		5775		5608		5434		5244		5028		4766		4482		3839			
				19.8	1.11	19.8	1.14	19.8	1.17	19.3	1.20	18.7	1.23	18.1	1.25	17.6	1.27	17.2	1.28	16.8	1.28	16.1	1.24		
		1085	5965	6514		6366		6216		6063		5903		5735		5551		5342		5095		4566		3772	
				23	1.35	23	1.39	23	1.42	22	1.43	22	1.49	21	1.51	20	1.53	19.7	1.55	19.3	1.56	18.6	1.55	17.9	1.48
210R9B	2 50 lbs.	1141	6272	6851		6710		6567		6422		6273		6117		5951		5769		5561		5065		4543	
				24	1.57	24	1.61	24	1.65	24	1.68	23	1.72	23	1.75	22	1.77	21	1.79	21	1.81	20	1.82	19.6	1.79
		1196	6575	7181		7046		6911		6773		6632		6486		6333		6169		5989		5549		5069	
				26	1.81	26	1.85	26	1.89	26	1.93	25	1.96	24	1.99	24	2.02	23	2.05	23	2.07	22	2.09	21	2.08

210 ACRUB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
210RH4B	1/3 19 lbs.	768	4222	2769		2511		2235																	
				8.4	.31	8.3	.32	7.9	.33																
210RH5B	1/2 23 lbs.	882	4849	3323		3093		2875		2341															
				10.7	.45	10.6	.47	10.6	.49	9.5	.50														
210RH6B	3/4 31 lbs.	1015	5580	3932		3759		3554		3176		2679		1793											
				13.7	.67	13.6	.70	13.6	.72	13.2	.75	12.2	.77	11.2	.69										
210RH7B	1 36 lbs.	1067	5866	4164		4008		3819		3452		3037		2485											
				14.9	.77	14.8	.81	14.8	.83	14.6	.87	13.8	.89	12.7	.87										
		1120	6157	4398		4257		4085		3724		3371		2891		2091									
				16.2	.89	16.1	.92	16.1	.95	16.0	.99	15.3	1.02	14.2	1.03	13.3	.95								
210RH8B	1-1/2 38 lbs.	1286	7070	5122		5007		4881		4572		4264		3965		3579		3133		2301					
				19.8	1.31	19.7	1.36	19.7	1.40	19.6	1.46	19.5	1.50	18.9	1.54	18.1	1.57	17.2	1.55	16.4	1.41				
210RH9B	2 50 lbs.	1352	7433	5406		5300		5184		4905		4600		4323		4009		3609		3164		2260			
				21	1.52	21	1.56	21	1.61	21	1.68	21	1.73	21	1.77	20	1.80	19.3	1.82	18.4	1.78	17.7	1.59		
		1417	7790	5685		5585		5478		5227		4932		4660		4390		4054		3659		3195		2263	
				23	1.74	23	1.79	23	1.83	23	1.92	23	1.98	23	2.02	22	2.06	21	2.09	20	2.09	19.7	2.03	19.0	1.80
210RH10B	3 74 lbs.	1521	8362	6131		6038		5942		5725		5462		5191		4944		4688		4374		4008		3618	
				26	2.13	26	2.19	26	2.24	26	2.33	26	2.41	25	2.46	25	2.51	25	2.55	24	2.58	23	2.59	22	2.54
		1626	8939	6578		6493		6404		6213		5986		5728		5481		5253		5011		4722		4384	
				29	2.59	29	2.65	29	2.70	29	2.81	28	2.90	28	2.97	28	3.02	28	3.07	27	3.11	27	3.15	26	3.16

210 ACRUB-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
210RX4B	1/3 19 lbs.	1004	5519	1127																					
				9.0	.33																				
210RX5B	1/2 23 lbs.	1153	6338	1558		1357		1102																	
				11.3	.48	11.2	.50	12.7	.50																
210RX6B	3/4 31 lbs.	1327	7295	1950		1832		1684		1487		1253													
				14.6	.69	14.5	.73	14.4	.76	14.6	.77	18.1	.76												
210RX7B	1 36 lbs.	1464	8048	2243		2138		2030		1905		1734		1552		1301									
				17.4	.90	17.3	.93	17.2	.97	17.1	1.01	17.0	1.03	18.2	1.03	27	1.01								
210RX8B	1-1/2 38 lbs.	1572	8642	2469		2370		2273		2172		2055		1900		1732									
				19.3	1.08	19.2	1.13	19.1	1.17	19.0	1.21	18.8	1.24	18.7	1.27	19.6	1.28								
		1681	9241	2694		2600		2508		2417		2323		2215		2078		1759							
				22	1.30	21	1.34	21	1.39	21	1.43	21	1.47	21	1.51	21	1.55	23	1.56						
210RX9B	2 50 lbs.	1767	9714	2869		2780		2691		2605		2518		2426		2322		2041		1710					
				23	1.48	23	1.53	23	1.58	23	1.63	22	1.67	22	1.72	22	1.76	22	1.82	29	1.80				
		1852	10181	3040		2956		2871		2787		2704		2621		2532		2309		2023		1646			
				25	1.68	25	1.74	24	1.79	24	1.84	24	1.89	24	1.94	24	1.98	24	2.07	25	2.10	40	2.04		
210RX10B	3 74 lbs.	1989	10935	3313		3235		3156		3077		2999		2922		2845		2679		2459		2192		1872	
				28	2.04	28	2.11	27	2.17	27	2.23	27	2.28	27	2.33	26	2.38	26	2.48	26	2.57	28	2.60	39	2.55
		2126	11688	3583		3510		3437		3363		3289		3215		3143		2998		2837		2627		2378	
				32	2.46	31	2.53	30	2.60	30	2.66	30	2.72	30	2.78	29	2.83	29	2.94	29	3.04	29	3.13	31	3.17

Performance certified is for

ACRUB / ACRUB-HP / ACRU-XP Performance Data

225 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
225R3B	1/4 15 lbs.	533	3139	3684		3333		2854		2357															
				8.4	.20	8.0	.24	7.4	.24	6.6	.25														
225R4B	1/3 19 lbs.	589	3469	4071		3753		3381		2873															
				10.2	.27	9.8	.32	9.4	.32	8.5	.33														
225R5B	1/2 23 lbs.	677	3987	4680		4400		4119		3730		3288		2938											
				13.1	.41	12.7	.49	12.3	.48	11.8	.49	10.9	.49	10.2	.50										
225R6B	3/4 31 lbs.	779	4588	5385		5138		4904		4637		4281		3887		3565									
				17.3	.63	16.8	.74	16.4	.75	16.0	.73	15.4	.74	14.7	.75	14.0	.76								
225R7B	1 36 lbs.	819	4824	5661		5426		5204		4964		4655		4280		3932		3645							
				18.9	.73	18.5	.86	18.1	.87	17.7	.85	17.2	.85	16.5	.87	15.9	.87	15.2	.89						
	36 lbs.	859	5059	5938		5712		5500		5279		5011		4671		4313		4010		3741					
				21	.84	20	.98	19.7	1.01	19.3	.99	18.9	.98	18.4	1.00	17.7	1.00	17.1	1.01	16.4	1.03				
225R8B	1-1/2 38 lbs.	923	5436	6380		6169		5971		5771		5548		5271		4942		4612		4330					
				24	1.05	23	1.20	23	1.25	22	1.24	22	1.22	21	1.22	21	1.24	20	1.25	19.5	1.26				
	38 lbs.	986	5808	6816		6616		6430		6246		6049		5822		5544		5231		4923		4422			
				27	1.28	26	1.46	26	1.52	25	1.52	25	1.49	25	1.48	24	1.50	23	1.52	23	1.52	22	1.55		
225R9B	2 50 lbs.	1036	6102	7161		6970		6793		6618		6437		6236		5997		5716		5414		4878		4427	
				29	1.48	29	1.68	28	1.75	28	1.77	27	1.74	27	1.72	27	1.72	26	1.75	25	1.76	24	1.78	23	1.81
	50 lbs.	1087	6402	7514		7332		7161		6994		6824		6643		6435		6191		5913		5357		4907	
				32	1.71	32	1.92	31	2.02	31	2.04	30	2.03	30	2.00	29	1.98	29	2.00	28	2.02	27	2.04	26	2.07

225 ACRUB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
225RH5B	1/2 23 lbs.	606	3569	2553		2159		1479																	
				7.3	.23	7.0	.24	6.3	.22																
	3/4 31 lbs.	897	5283	3634		3370		3074		2328															
				14.2	.46	13.9	.49	13.7	.50	13.1	.50														
225RH6B	1 36 lbs.	989	5825	4315		4110		3875		3356		2659													
				17.2	.69	17.0	.72	16.7	.74	16.3	.76	15.6	.77												
	36 lbs.	989	5825	4830		4656		4459		4009		3521		2800											
				19.6	.90	19.6	.94	19.3	.97	18.7	1.02	18.4	1.03	17.5	1.02										
225RH8B	1-1/2 38 lbs.	1063	6261	5238		5082		4910		4511		4073		3584		2781									
				21	1.11	21	1.15	21	1.19	21	1.25	20	1.27	19.7	1.28	18.8	1.22								
	38 lbs.	1136	6691	5638		5495		5341		4987		4588		4169		3662		2808							
				23	1.34	23	1.39	23	1.43	23	1.50	22	1.54	22	1.55	21	1.56	20	1.45						
225RH9B	2 50 lbs.	1194	7033	5953		5819		5677		5354		4985		4593		4174		3604							
				26	1.55	26	1.60	26	1.64	25	1.72	24	1.78	23	1.80	23	1.81	22	1.81						
	50 lbs.	1251	7369	6262		6135		6002		5705		5364		4996		4615		4180		3542					
				28	1.78	28	1.82	28	1.87	28	1.96	27	2.03	26	2.06	26	2.07	25	2.08	24	2.06				
225RH10B	3 74 lbs.	1343	7910	6757		6641		6520		6257		5958		5628		5281		4924		4520		3958			
				34	2.18	34	2.23	34	2.28	34	2.38	33	2.47	32	2.53	32	2.55	31	2.57	31	2.58	30	2.57		
	74 lbs.	1436	8458	7256		7148		7037		6801		6536		6241		5926		5600		5266		4893		4408	
				40	2.65	40	2.71	40	2.76	40	2.86	40	2.96	39	3.05	39	3.10	38	3.12	38	3.14	38	3.15	37	3.16

225 ACRUB-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
225RX5B	1/2 23 lbs.	1019	6002	1710		1493		1190																	
				11.5	.48	11.4	.51	11.3	.48																
225RX6B	3/4 31 lbs.	1173	6909	2147		2013		1847		1635															
				14.9	.69	14.9	.73	14.8	.76	14.7	.77														
225RX7B	1 36 lbs.	1294	7622	2474		2353		2232		2089		1908		1700											
				17.3	.89	17.2	.93	17.1	.97	17.0	1.01	16.9	1.03	16.9	1.02										
225RX8B	1-1/2 38 lbs.	1390	8187	2731		2613		2502		2388		2255		2091		1905									
				19.2	1.08	19.0	1.12	18.9	1.17	18.8	1.21	18.8	1.25	18.7	1.28	18.6	1.28								
		1486	8753	2986		2871		2763		2660		2553		2430		2282		1924							
				21	1.29	21	1.34	21	1.39	21	1.43	21	1.48	21	1.52	20	1.56	20	1.54						
225RX9B	2 50 lbs.	1562	9200	3185		3075		2968		2868		2770		2666		2547		2247		1852					
				23	1.48	23	1.53	23	1.58	23	1.63	22	1.68	22	1.73	22	1.77	22	1.82	22	1.75				
		1637	9642	3380		3274		3170		3071		2977		2882		2782		2534		2221					
25	1.68			25	1.74	25	1.79	24	1.84	24	1.89	24	1.94	24	1.99	24	2.08	24	2.08						
225RX10B	3 74 lbs.	1718	10119	3587		3487		3387		3289		3197		3107		3017		2813		2548		2232			
				27	1.92	27	1.98	27	2.04	27	2.09	26	2.14	26	2.20	26	2.25	26	2.35	26	2.42	26	2.39		
		1799	10597	3793		3698		3602		3507		3415		3328		3243		3065		2847		2576		2254	
				30	2.17	29	2.24	29	2.30	29	2.36	29	2.42	28	2.47	28	2.53	28	2.64	28	2.74	28	2.78	28	2.71
		1879	11068	3994		3904		3812		3720		3630		3544		3461		3297		3114		2885		2614	
				32	2.45	32	2.52	31	2.59	31	2.65	31	2.71	31	2.77	31	2.83	30	2.95	30	3.06	30	3.15	30	3.16

245 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
245R3B	1/4 15 lbs.	442	2835	4058		3639		3116																	
				7.2	.22	6.8	.24	6.3	.24																
245R4B	1/3 19 lbs.	489	3136	4490		4114		3691		3060															
				9.0	.30	8.6	.32	8.2	.33	7.3	.33														
245R5B	1/2 23 lbs.	561	3598	5151		4825		4481		4067		3471													
				11.9	.45	11.6	.48	11.3	.50	11.0	.50	9.7	.49												
245R6B	3/4 31 lbs.	646	4143	5931		5649		5359		5047		4674		4185											
				14.8	.69	14.5	.72	14.2	.75	13.9	.77	13.6	.76	12.7	.76										
245R7B	1 36 lbs.	679	4355	6234		5966		5692		5402		5074		4662		4104									
				16.1	.80	15.7	.83	15.4	.86	15.1	.88	14.7	.89	14.4	.88	13.0	.87								
245R8B	1-1/2 38 lbs.	765	4906	6537		6282		6022		5750		5453		5098		4650		3955							
				17.2	.92	16.9	.95	16.6	.99	16.3	1.01	15.9	1.03	15.5	1.02	14.7	1.01	13.5	.95						
245R9B	2 50 lbs.	860	5516	7023		6786		6546		6297		6035		5741		5391		4962		4325					
				19.7	1.14	19.4	1.18	19.0	1.21	18.7	1.25	18.3	1.27	17.8	1.27	17.3	1.27	16.4	1.25	15.4	1.19				
245R9B	2 50 lbs.	860	5516	7510		7288		7064		6835		6596		6341		6052		5713		5307					
				22	1.39	22	1.43	22	1.47	21	1.51	21	1.54	21	1.56	20	1.56	19.7	1.54	18.7	1.53				
245R9B	2 50 lbs.	860	5516	7896		7685		7472		7255		7032		6797		6542		6251		5912		4947			
				24	1.62	24	1.66	24	1.70	24	1.74	23	1.78	23	1.80	22	1.81	22	1.81	22	1.79	19.3	1.71		
245R9B	2 50 lbs.	860	5516	8281		8080		7878		7672		7461		7243		7011		6756		6465		5738			
				27	1.86	27	1.91	26	1.96	26	2.00	26	2.04	25	2.07	25	2.08	24	2.09	24	2.08	22	2.05		

245 ACRUB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
245RH5B	1/2 23 lbs.	670	4297	4143		3805		3393																	
				10.6	.47	10.0	.49	9.4	.50																
245RH6B	3/4 31 lbs.	771	4945	4929		4675		4369		3661															
				14.2	.71	13.8	.73	13.3	.74	12.0	.77														
245RH7B	1 36 lbs.	811	5201	5233		4998		4730		4061		3255													
				15.3	.81	15.0	.84	14.6	.86	13.4	.89	12.1	.88												
		850	5451	5528		5307		5065		4442		3783													
245RH8B	1-1/2 38 lbs.	913	5856	16.5 .93		16.2 .96		15.8 .98		14.7 1.02		13.5 1.03													
				5999		5796		5583		5056		4458		3732											
		976	6260	18.4 1.14		18.2 1.18		17.8 1.20		16.9 1.25		15.8 1.28		14.7 1.26											
				6466		6279		6084		5640		5075		4522		3721									
245RH9B	2 50 lbs.	1026	6580	20 1.38		20 1.42		19.9 1.45		19.1 1.50		18.1 1.55		17.1 1.56		16.1 1.52									
				6835		6657		6475		6076		5564		5036		4446									
		1076	6901	22 1.59		22 1.64		22 1.68		21 1.72		19.9 1.75		18.9 1.81		18.1 1.80									
				7201		7033		6860		6494		6044		5526		5027		4353							
245RH10B	3 74 lbs.	1156	7414	24 1.82		24 1.87		24 1.92		23 1.98		22 2.03		21 2.08		20 2.09		19.2 2.05							
				7785		7628		7470		7140		6769		6307		5832		5364		4738					
		1235	7921	27 2.23		27 2.30		27 2.35		27 2.43		26 2.48		25 2.54		24 2.59		23 2.59		22 2.55					
				8358		8212		8065		7762		7437		7055		6603		6166		5725		5153			
				31	2.70	31	2.77	31	2.84	30	2.93	30	2.99	29	3.05	28	3.12	27	3.16	26	3.16	25	3.12		

ACRUB / ACRUB-HP / ACRU-XP Performance Data

270 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
270R3B	1/4 15 lbs.	376	2657	4620		4073		3320																	
				5.0	.22	4.7	.24	4.1	.24																
270R4B	1/3 19 lbs.	416	2940	5112		4623		4039																	
				6.3	.30	6.0	.32	5.4	.33																
270R5B	1/2 23 lbs.	477	3371	5861		5439		4981		4381															
				8.4	.45	8.3	.48	7.5	.50	7.1	.50														
270R6B	3/4 31 lbs.	549	3880	6746		6381		6000		5576		5025		4158											
				11.5	.68	11.5	.72	10.6	.75	9.9	.77	9.4	.76	9.0	.72										
270R7B	1 36 lbs.	577	4078	7090		6743		6384		5995		5523		4889											
				12.4	.79	12.4	.83	11.6	.87	10.9	.89	10.4	.88	9.9	.87										
270R8B	1-1/2 38 lbs.	651	4601	7447		7116		6777		6416		6001		5472		4701									
				13.3	.92	13.3	.96	12.7	1.00	11.9	1.02	11.3	1.03	10.9	1.02	10.5	.98								
270R9B	2 50 lbs.	732	5174	7999		7692		7379		7052		6696		6274		5746		4965							
				14.9	1.14	14.9	1.18	14.5	1.23	13.7	1.26	13.1	1.28	12.6	1.27	12.2	1.26	11.7	1.20						
270R9B	2 50 lbs.	732	5174	8552		8265		7974		7673		7355		7000		6578		6063		5310					
				16.4	1.39	16.4	1.44	16.2	1.49	15.5	1.52	14.8	1.55	14.4	1.56	14.0	1.55	13.6	1.54	13.2	1.47				
270R9B	2 50 lbs.	732	5174	8995		8722		8445		8162		7867		7549		7185		6753		6231					
				17.7	1.61	17.7	1.67	17.6	1.72	17.0	1.76	16.4	1.79	15.8	1.81	15.4	1.81	15.0	1.80	14.6	1.78				
270R9B	2 50 lbs.	767	5421	9425		9164		8901		8633		8355		8062		7740		7368		6930		5565			
				18.9	1.86	18.9	1.92	18.9	1.97	18.4	2.01	17.8	2.05	17.3	2.08	16.9	2.09	16.5	2.08	16.1	2.06	15.4	1.89		

270 ACRUB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
270RH5B	1/2 23 lbs.	569	4022	4576		4080		3523																	
				9.9	.47	9.1	.50	8.4	.50																
270RH6B	3/4 31 lbs.	655	4629	5489		5136		4685		3652															
				13.9	.70	12.8	.73	12.0	.76	10.8	.76														
270RH7B	1 36 lbs.	689	4870	5837		5518		5122		4200															
				15.6	.81	14.5	.84	13.6	.87	12.3	.89														
270RH8B	1-1/2 38 lbs.	777	5492	6181		5888		5540		4682															
				16.8	.93	16.0	.96	15.0	1.00	13.6	1.03														
270RH8B	1-1/2 38 lbs.	830	5866	6721		6461		6164		5406		4565													
				18.7	1.14	18.2	1.18	17.2	1.21	15.7	1.27	14.7	1.27												
270RH9B	2 50 lbs.	872	6163	7245		7008		6747		6098		5339		4405											
				21	1.37	21	1.42	19.5	1.46	17.8	1.53	16.7	1.56	16.1	1.53										
270RH9B	2 50 lbs.	915	6467	7656		7434		7195		6622		5908		5156											
				22	1.58	22	1.63	22	1.68	19.7	1.75	18.4	1.80	17.6	1.80										
270RH10B	3 74 lbs.	983	6948	8075		7867		7645		7132		6477		5789		4947									
				24	1.82	24	1.87	24	1.92	22	2.00	20	2.07	19.3	2.09	18.7	2.05								
270RH10B	3 74 lbs.	1050	7422	8734		8542		8342		7898		7352		6713		6066		5232							
				27	2.24	27	2.29	27	2.35	25	2.44	24	2.53	23	2.58	22	2.59	21	2.54						
270RH10B	3 74 lbs.	1050	7422	9378		9201		9018		8622		8159		7595		6995		6378		5574					
				31	2.71	31	2.77	31	2.83	29	2.94	27	3.03	26	3.11	25	3.15	24	3.15	23	3.09				

270 ACRUB-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
270RX5B	1/2 23 lbs.	756	5343	1974																					
				12.1	.51																				
270RX6B	3/4 31 lbs.	869	6142	2661		2374																			
				14.3	.74	14.5	.77																		
270RX7B	1 36 lbs.	959	6778	3117		2907		2647		2270															
				16.3	.96	16.3	1.00	16.5	1.03	17.0	1.02														
270RX8B	1-1/2 38 lbs.	1101	7782	3781		3624		3451		3253		3015		2697											
				19.3	1.37	19.3	1.44	19.3	1.49	19.4	1.53	19.7	1.56	20	1.56										
270RX9B	2 50 lbs.	1157	8178	4035		3888		3732		3559		3362		3125		2811									
				21	1.56	21	1.63	21	1.69	21	1.75	21	1.79	22	1.81	22	1.81								
		1214	8581	4289		4150		4008		3853		3682		3488		3256									
				24	1.77	23	1.85	23	1.92	23	1.98	23	2.03	23	2.07	24	2.09								
270RX10B	3 74 lbs.	1304	9217	4688		4558		4428		4294		4151		3994		3820		3379							
				27	2.14	27	2.23	27	2.31	27	2.38	27	2.45	27	2.51	27	2.55	28	2.59						
		1393	9846	5079		4954		4833		4711		4585		4452		4307		3974		3529					
				32	2.56	31	2.65	31	2.74	31	2.83	31	2.91	31	2.98	31	3.04	31	3.13	32	3.16				
270RX11B	5 98 lbs.	1525	10779	5655		5537		5423		5312		5201		5088		4971		4713		4414		4043		3519	
				39	3.27	38	3.38	38	3.48	38	3.58	38	3.68	38	3.76	38	3.85	38	3.99	38	4.10	39	4.15	40	4.10
		1656	11705	6223		6110		6001		5897		5794		5693		5590		5375		5137		4869		4552	
				43	4.09	43	4.22	43	4.34	42	4.45	42	4.56	42	4.66	42	4.76	42	4.94	42	5.10	42	5.22	43	5.3

300 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
300R3B	1/4 15 lbs.	314	2466	5763		4932		3486																	
				4.8	.21	4.2	.24	3.3	.24																
300R4B	1/3 19 lbs.	348	2733	6387		5664		4589																	
				5.9	.29	5.4	.32	4.6	.33																
300R5B	1/2 23 lbs.	399	3133	7323		6716		5941		4788															
				7.7	.44	7.3	.47	6.6	.50	5.9	.50														
300R6B	3/4 31 lbs.	459	3604	8424		7910		7302		6532		5471													
				10.2	.67	9.8	.71	9.1	.75	8.4	.76	7.7	.76												
300R7B	1 36 lbs.	507	3981	9305		8845		8321		7709		6916		5907											
				12.4	.90	12.2	.94	11.4	.99	10.6	1.02	10.0	1.03	9.3	1.02										
300R8B	1-1/2 38 lbs.	582	4571	10682		10285		9855		9370		8822		8151		7327		6284							
				15.6	1.36	15.6	1.41	14.8	1.46	14.1	1.51	13.4	1.55	12.8	1.55	12.2	1.55	11.6	1.47						
300R9B	2 50 lbs.	641	5034	11765		11406		11027		10608		10150		9637		9023		8287		7461					
				18.2	1.81	18.2	1.87	17.7	1.93	17.0	1.99	16.3	2.04	15.7	2.07	15.1	2.08	14.5	2.07	13.9	2.05				
300R10B	3 74 lbs.	736	5780	13508		13197		12876		12534		12163		11768		11340		10862		10306		8982			
				23	2.74	23	2.81	23	2.88	22	2.95	21	3.01	21	3.07	20	3.11	19.6	3.14	19.1	3.14	18.0	3.13		
300R11B	5 98 lbs.	806	6330	14793		14509		14219		13917		13593		13248		12886		12497		12075		11058		9831	
				27	3.60	27	3.68	27	3.75	26	3.83	26	3.90	25	3.97	24	4.03	24	4.08	23	4.12	22	4.12	21	4.11
		875	6872	16060		15798		15533		15260		14972		14668		14347		14013		13660		12868		11891	
				31	4.61	31	4.69	31	4.77	31	4.85	30	4.93	29	5.01	29	5.09	28	5.16	27	5.21	26	5.28	25	5.27

300 ACRUB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
300RH5B	1/2 23 lbs.	477	3746	5050		4371		3466																	
				7.8	.48	7.1	.50	6.6	.49																
300RH6B	3/4 31 lbs.	549	4311	6182		4607		5015																	
				10.5	.72	9.7	.74	9.0	.76																
300RH7B	1 36 lbs.	606	4759	7030		6536		6007		4813															
				12.9	.94	12.1	.99	11.3	1.00	10.1	1.02														
300RH8B	1-1/2 38 lbs.	651	5112	7678		7244		6757		5746															
				14.8	1.15	14.1	1.20	13.4	1.23	12.0	1.27														
		696	5466	8312		7928		7487		6562		5467													
				17.0	1.39	16.2	1.45	15.5	1.49	14.0	1.53	12.9	1.55												
300RH9B	2 50 lbs.	767	6024	9295		8970		8600		7774		6920		5833											
				19.8	1.84	19.4	1.90	18.6	1.96	17.2	2.03	15.9	2.07	14.9	2.06										
300RH10B	3 74 lbs.	823	6463	10060		9767		9443		8695		7914		7081		5910									
				22	2.25	22	2.32	21	2.39	19.8	2.48	18.5	2.53	17.4	2.57	16.4	2.51								
		880	6911	10832		10564		10276		9608		8882		8144		7319		6108							
				25	2.72	25	2.80	24	2.88	23	3.00	21	3.07	20	3.11	19.0	3.15	18.2	3.03						
300RH11B	5 98 lbs.	963	7563	11947		11708		11457		10892		10245		9580		8903		8163		7185					
				28	3.53	28	3.62	28	3.71	27	3.86	25	3.97	24	4.03	23	4.08	22	4.12	21	4.06				
		1046	8215	13055		12837		12612		12124		11564		10956		10343		9721		9055		8249		7112	
				32	4.49	32	4.59	32	4.68	31	4.86	30	5.01	29	5.11	27	5.16	26	5.22	25	5.28	24	5.26	24	5.05

300 ACRUB-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
300RX6B	3/4 31 lbs.	730	5733	2786		2334																			
				12.1	.75	12.9	.77																		
300RX7B	1 36 lbs.	806	6330	3371		3029		2619																	
				13.9	.98	14.4	1.01	15.1	1.03																
300RX8B	1-1/2 38 lbs.	866	6801	3787		3510		3171		2783															
				15.8	1.18	15.4	1.23	16.1	1.26	16.8	1.28														
		925	7264	4174		3938		3662		3333		2968													
				17.5	1.4	17.1	1.46	17.2	1.51	17.8	1.54	18.4	1.56												
300RX9B	2 50 lbs.	972	7634	4472		4259		4018		3738		3411		3056											
				18.9	1.59	18.6	1.67	18.3	1.72	18.7	1.76	19.3	1.80	19.8	1.81										
		1019	8003	4764		4568		4353		4109		3827		3508		3164									
				20	1.79	20	1.88	19.9	1.95	19.8	2.00	20	2.04	21	2.08	22	2.08								
300RX10B	3 74 lbs.	1095	8600	5229		5051		4866		4663		4436		4179		3889		3227							
				23	2.15	23	2.26	23	2.36	22	2.43	22	2.48	23	2.53	23	2.57	25	2.56						
		1170	9189	5680		5516		5348		5172		4981		4770		4535		3989							
				26	2.56	26	2.68	26	2.79	25	2.89	25	2.96	25	3.02	25	3.07	27	3.15						
300RX11B	5 98 lbs.	1280	10053	6333		6182		6032		5879		5720		5552		5369		4954		4458		3906			
				31	3.26	31	3.38	30	3.51	30	3.63	30	3.74	30	3.84	29	3.91	30	4.02	31	4.11	32	4.12		
		1391	10924	6983		6843		6705		6567		6427		6283		6132		5802		5419		4972		4486	
				37	4.08	36	4.22	36	4.35	35	4.49	35	4.63	35	4.75	35	4.86	34	5.03	35	5.15	36	5.26	37	5.31

Performance certified is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels. **Shaded area indicates reinforced wheel required.**

ACRUB / ACRUB-HP / ACRU-XP Performance Data

330 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
330R5B	1/2 23 lbs.	341	2946	7650		6920		6050		4379															
				7.0	.45	6.5	.49	5.7	.50	4.9	.44														
330R6B	3/4 31 lbs.	393	3395	8817		8189		7512		6630		5013													
				9.2	.68	8.9	.73	8.0	.76	7.3	.76	6.6	.68												
330R7B	1 36 lbs.	433	3740	9714		9147		8551		7866		6934													
				11.2	.91	10.9	.97	10.0	1.01	9.2	1.02	8.6	1.01												
330R8B	1-1/2 38 lbs.	498	4302	11173		10681		10176		9639		9024		8243		7127									
				14.6	1.39	14.6	1.45	13.7	1.51	12.9	1.55	12.1	1.56	11.5	1.54	10.8	1.49								
330R9B	2 50 lbs.	523	4518	11734		11265		10787		10286		9734		9066		8220		6813							
				16.0	1.61	16.0	1.68	15.2	1.74	14.3	1.78	13.6	1.80	12.9	1.79	12.2	1.77	11.7	1.62						
330R10B	3 74 lbs.	588	5079	12294		11848		11394		10922		10416		9831		9115		8190							
				17.1	1.85	17.1	1.92	16.4	1.99	15.6	2.04	14.9	2.07	14.2	2.07	13.6	2.05	13.0	2.02						
330R11B	5 98 lbs.	689	5952	13192		12776		12354		11921		11468		10974		10400		9711		8849					
				19.0	2.29	19.0	2.36	18.4	2.43	17.8	2.49	17.1	2.54	16.5	2.56	15.8	2.55	15.2	2.53	14.6	2.50				
		629	5434	14112		13723		13331		12930		12516		12079		11598		11046		10395		8382			
				21	2.80	21	2.88	21	2.96	20	3.03	19.4	3.08	18.8	3.12	18.1	3.14	17.6	3.12	17.0	3.10	15.9	2.86		
		748	6462	15458		15103		14746		14384		14014		13632		13231		12798		12312		11122		9180	
				25	3.68	25	3.77	25	3.85	24	3.93	23	4.00	23	4.06	22	4.10	21	4.12	21	4.12	19.6	4.06	18.5	3.76
				16781		16455		16127		15795		15459		15114		14761		14391		13997		13086		11937	
				28	4.71	28	4.80	28	4.90	28	4.99	27	5.07	26	5.14	26	5.20	25	5.25	25	5.27	24	5.25	22	5.19

330 ACRUB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
330RH5B	1/2 23 lbs.	416	3593	5392		4522																			
				8.0	.49	7.2	.50																		
330RH6B	3/4 31 lbs.	479	4138	6641		5951		5189																	
				10.7	.72	9.9	.75	9.1	.77																
330RH7B	1 36 lbs.	528	4561	7553		6985		6319		4552															
				13.0	.95	12.2	.99	11.5	1.02	10.0	1.00														
330RH8B	1-1/2 38 lbs.	567	4898	8259		7756		7173		5850															
				15.0	1.16	14.2	1.21	13.5	1.24	12.0	1.27														
330RH9B	2 50 lbs.	668	5771	8953		8498		7990		6818		5091													
				17.1	1.40	16.3	1.45	15.6	1.50	14.3	1.55	12.7	1.51												
330RH10B	3 74 lbs.	718	6203	10037		9640		9212		8210		7104													
				19.9	1.85	19.5	1.91	18.8	1.96	17.5	2.05	16.1	2.08												
330RH11B	5 98 lbs.	839	7248	10900		10537		10153		9286		8292		7157											
				22	2.27	22	2.34	21	2.40	20	2.51	18.9	2.57	17.5	2.57										
		767	6626	11738		11402		11052		10285		9385		8439		7220									
				25	2.75	25	2.82	24	2.89	23	3.01	22	3.10	20	3.14	19.1	3.11								
		912	7879	12958		12654		12343		11680		10930		10083		9215		8146							
				28	3.56	28	3.64	28	3.72	27	3.87	26	3.99	25	4.07	24	4.12	22	4.09						
				14186		13908		13626		13036		12395		11673		10888		10091		9164		7774			
				33	4.55	33	4.63	33	4.72	32	4.88	30	5.04	29	5.16	28	5.24	27	5.28	26	5.27	25	5.17		

330 ACRUB-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP													
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP										
330RX7B	1 36 lbs.	684	5909	3521		2913																															
				13.3	1.01	12.8	1.03																														
330RX8B	1-1/2 38 lbs.	735	6349	4058		3615		2932																													
				15.6	1.23	15.1	1.27	14.5	1.26																												
		786	6790	4558		4163		3739		3040																											
				17.0	1.46	17.1	1.52	16.5	1.56	16.1	1.54																										
330RX9B	2 50 lbs.	826	7136	4922		4580		4187		3731		3045																									
				18.0	1.65	18.4	1.74	18.0	1.79	17.6	1.81	17.4	1.76																								
		866	7481	5266		4976		4613		4236		3699		3092																							
				19.3	1.86	19.4	1.96	19.5	2.03	19.1	2.07	18.9	2.08	18.7	2.02																						
330RX10B	3 74 lbs.	930	8034	5798		5560		5269		4925		4576		4124		3496																					
				22	2.24	22	2.35	22	2.45	21	2.52	21	2.57	21	2.58	21	2.53																				
		994	8587	6317		6104		5870		5588		5263		4937		4557		3487																			
		24		2.66		24		2.79		24		2.90		24		3.01		24		3.08		24		3.13		24		3.15		23		3.04					
330RX11B	5 98 lbs.	1057	9131	6822		6623		6419		6190		5918		5611		5305		4463																			
				26	3.13	26	3.26	26	3.39	27	3.52	27	3.62	27	3.70	26	3.75	26	3.78																		
		1120	9676	7325		7132		6945		6748		6525		6265		5976		5389		4434																	
				29	3.65	29	3.79	29	3.94	29	4.07	29	4.20	29	4.31	29	4.40	29	4.49	28	4.46																
		1182	10211	7817		7629		7451		7272		7082		6865		6618		6069		5476		4502															
				32	4.22	31	4.37	31	4.52	32	4.67	32	4.82	32	4.95	32	5.07	32	5.23	31	5.30	31	5.21														

365 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
365R6B	3/4 31 lbs.	319	3048	9425		8374		6939		5421															
		346	3306	10222		9257		8064		6842															
365R7B	1 36 lbs.	382	3650	11286		10415		9479		8170		7149													
				10.9 .89		10.5 .93		9.7 .96		8.9 .99		8.2 1.02													
365R8B	1-1/2 38 lbs.	438	4185	12940		12183		11406		10474		9322		8485											
				14.2 1.34		14.1 1.39		13.2 1.43		12.4 1.16		11.6 1.49		10.9 1.53											
365R9B	2 50 lbs.	460	4395	13590		12870		12135		11323		10163		9336		8315									
		483	4615	15.5 1.55		15.5 1.60		14.6 1.65		13.8 1.69		13.0 1.71		12.3 1.75		11.6 1.79									
365R10B	3 74 lbs.	519	4959	14270		13584		12887		12148		11131		10177		9427									
		555	5303	17.0 1.80		17.0 1.85		16.2 1.90		15.4 1.94		14.6 1.97		13.9 2.00		13.2 2.05									
365R11B	5 78 lbs.	607	5800	15333		14696		14050		13385		12617		11551		10780		10070							
		659	6297	19.2 2.23		19.2 2.29		18.6 2.34		17.8 2.39		17.1 2.43		16.4 2.45		15.7 2.49		15.0 2.55							
				16397		15801		15199		14585		13932		13088		12113		11440		10773					
				21 2.73		21 2.79		21 2.85		19.9 2.90		19.1 2.95		18.4 2.98		17.8 3.01		17.2 3.06		16.6 3.11					
				17933		17389		16840		16284		15715		15096		14296		13383		12728		11446			
				24 3.57		24 3.64		24 3.70		23 3.77		23 3.82		22 3.87		21 3.90		21 3.93		20 3.98		18.9 4.10			
				19469		18968		18464		17955		17438		16907		16322		15583		14716		13515		12244	
				28 4.57		28 4.64		28 4.71		27 4.78		26 4.85		26 4.90		25 4.95		24 4.99		24 5.02		23 5.13		22 5.26	

365 ACRUB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
365RH7B	1 36 lbs.	440	4204	8756		7976		7188																	
				11.3	.97	10.8	1.00	10.1	1.02																
365RH8B	1-1/2 38 lbs.	506	4835	10463		9834		9151		7719															
				15.1	1.44	14.4	1.49	13.9	1.52	12.3	1.56														
365RH9B	2 50 lbs.	532	5083	11111		10540		9893		8585		6358													
				16.7	1.67	16.0	1.72	15.3	1.76	13.9	1.80	12.4	1.72												
		557	5322	11728		11204		10598		9362		7859													
				18.2	1.90	17.5	1.95	16.8	2.00	15.6	2.06	13.9	2.06												
365RH10B	3 74 lbs.	599	5723	12749		12289		11757		10608		9416		7466											
				21	2.35	20	2.40	19.4	2.46	18.3	2.54	16.7	2.58	15.1	2.48										
		640	6115	13735		13321		12854		11788		10714		9485											
				23	2.85	22	2.91	22	2.97	21	3.07	19.4	3.13	17.9	3.14										
365RH11B	5 98 lbs.	700	6688	15163		14798		14402		13476		12491		11499		10348									
				26	3.70	26	3.76	26	3.83	24	3.96	23	4.05	22	4.10	20	4.11								
		760	7262	16578		16251		15903		15109		14207		13306		12384		11327		9616					
				30	4.71	30	4.78	30	4.85	28	4.99	27	5.12	26	5.20	25	5.26	23	5.27	22	5.09				
365RH12B	7-1/2 120 lbs.	816	7797	17890		17589		17275		16581		15774		14926		14088		13220		12240		10824			
				34	5.81	34	5.88	34	5.96	33	6.11	31	6.26	30	6.37	29	6.45	28	6.51	26	6.52	25	6.38		
		872	8332	19197		18918		18631		18011		17298		16512		15723		14937		14122		13214		12026	
				38	7.07	38	7.15	38	7.23	37	7.39	36	7.55	35	7.70	34	7.81	32	7.89	31	7.94	29	7.96	28	7.86

ACRUB Performance Data

402 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
402R6B	3/4 31 lbs.	294	3098	11648		10390		8682		7054															
				8.1	.66	7.6	.70	6.8	.73	6.0	.76														
402R7B	1 36 lbs.	324	3414	12836		11700		10378		8833															
				9.7	.88	9.3	.93	8.6	.96	7.7	.99														
402R8B	1-1/2 38 lbs.	348	3667	13787		12732		11600		10011		8786													
				11.2	1.09	10.9	1.15	10.0	1.19	9.2	1.21	8.4	1.26												
	372	3919		14738		13752		12727		11292		10094													
				12.7	1.34	12.5	1.39	11.7	1.44	10.9	1.47	10.0	1.51												
402R9B	2 50 lbs.	392	4130	15530		14596		13635		12443		11075		10008											
				14.1	1.57	139	1.62	13.1	1.67	12.2	1.71	11.4	1.74	10.7	1.79										
	411	4330		16283		15393		14482		13456		12024		11041		9511									
				15.4	1.80	15.3	1.87	14.5	1.92	13.7	1.96	12.9	1.99	12.1	2.04	11.3	2.07								
402R10B	3 74 lbs.	441	4647	17472		16642		15799		14910		13702		12517		11618									
				17.4	2.23	17.4	2.29	16.7	2.36	15.9	2.41	15.1	2.44	14.4	2.48	13.7	2.53								
	471	4963		18660		17884		17098		16289		15355		14058		13119		12256							
				19.6	2.71	19.6	2.79	18.9	2.85	18.1	2.91	17.4	2.95	16.7	2.98	16.0	3.04	15.3	3.10						
402R11B	5 98 lbs.	515	5426	20403		19694		18979		18250		17487		16555		15347		14475		13714					
				23	3.55	23	3.63	22	3.70	22	3.77	21	3.83	20	3.87	19.5	3.90	18.8	3.96	18.2	4.02				
	560	5900		22186		21534		20878		20214		19536		18809		17911		16786		15939		14485			
				26	4.56	26	4.65	26	4.73	25	4.81	24	4.88	23	4.93	23	4.98	22	5.01	21	5.07	20	5.21		

445 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
445R6B	3/4 31 lbs.	248	2889	13278		11622		9396																	
				7.2	.66	6.8	.70	5.9	.73																
445R7B	1 36 lbs.	274	3192	14670		13181		11219		9428															
				8.8	.88	8.4	.94	7.5	.97	6.7	1.01														
445R8B	1-1/2 38 lbs.	294	3425	15740		14358		12758		10864															
				10.0	1.09	9.6	1.15	8.8	1.19	8.0	1.23														
	315	3669		16865		15577		14198		12258		10768													
				11.4	1.34	11.1	1.41	10.3	1.45	9.4	1.49	8.6	1.54												
445R9B	2 50 lbs.	331	3856	17721		16498		15219		13393		11972													
				12.5	1.56	12.3	1.62	11.5	1.68	10.6	1.71	9.8	1.76												
	347	4042		18578		17412		16208		14633		13043		11553											
				13.7	1.80	13.6	1.86	12.7	1.92	11.9	1.96	11.1	2.01	10.3	2.07										
445R10B	3 74 lbs.	373	4345	19970		18887		17779		16538		14792		13586		11818									
				15.7	2.23	15.7	2.31	14.8	2.37	14.1	2.42	13.2	2.46	12.4	2.52	11.6	2.56								
	398	4636		21309		20294		19262		18173		16686		15247		14146									
				17.6	2.71	17.6	2.79	16.9	2.86	16.1	2.92	15.3	2.96	14.6	3.01	13.9	3.08								
445R11B	5 98 lbs.	436	5079	23343		22418		21481		20522		19455		17953		16703		15707		14305					
				21	3.56	21	3.65	21	3.73	19.3	3.81	18.6	3.87	17.8	3.90	17.2	3.96	16.5	4.04	15.8	4.11				
	473	5510		25324		24471		23612		22737		21827		20762		19312		18178		17265					
				24	4.55	24	4.64	24	4.74	23	4.82	22	4.89	21	4.95	20	4.99	19.8	5.05	19.1	5.13				

490 ACRUB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP	
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Description: Fan shall be a spun aluminum, wall mounted, direct driven, horizontal centrifugal exhaust ventilator.

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: Fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The spun aluminum structural components shall be constructed of minimum 16 gauge marine alloy aluminum, bolted to a rigid aluminum support structure. The spun aluminum wall flange shall have pre-punched keyslot holes and a mounting template with wall opening location for ease of installation. The windband shall have a rolled bead for added strength. An integral conduit chase shall be provided into the motor compartment to facilitate wiring connections. The motor shall be enclosed in a weather-tight compartment, separated from the exhaust airstream. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM and static pressure. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel: Wheel shall be centrifugal backward inclined, constructed of 100 percent aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

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

Motor EC - Motor shall be an electronically commutated motor rated for continuous duty and furnished either with internally mounted potentiometer speed controller or with leads for connection to 0-10 VDC external controller.

Product: Fans shall be models ACWD, ACWD-EC, ACWDEC-HP, ACWDEC-XP, ACWD-HP or ACWD-XP as manufactured by LOREN COOK COMPANY of Springfield, Missouri.

Dimensions

Size	A	B	C			D Wall Opening		E	F	G	H Dia.	Ship. Wt.
			ACWD	ACWD-HP	ACWD-XP	Square	Round					
70	12-1/8	17-1/8	13	-	-	8	8	14-1/4	3/8	4	15-1/2	20
90	14-7/8	21-1/8	16	-	-	10	10	19-3/4	3/8	4	21-1/4	28
100	14-7/8	21-1/8	16	-	-	10	10	19-3/4	3/8	4	21-1/4	30
101	13	25-3/16	21-3/8	-	-	10	10	19-3/4	3/8	4	21-1/4	30
120	18-7/16	30-3/16	28-1/4	-	-	12	12	23-1/2	3/8	4	25	67
135	18-7/16	30-3/16	28-3/4	-	-	12	12	23-1/2	3/8	4	25	72
150	20-1/16	34-11/16	30-3/8	27-5/8	-	16	14	28-1/2	3/8	8	30	87
165	20-1/16	34-11/16	30-7/8	27-7/8	26-13/16	16	14	28-1/2	3/8	8	30	90
180	22-11/16	39-7/16	35-5/8	33-1/8	31-5/16	20	18	34-1/2	3/8	8	36	102
195	22-11/16	39-7/16	-	33-1/4	31-7/8	20	22	34-1/2	3/8	8	36	110

All dimensions in inches. Weights in pounds.

Centrifugal Exhaust Ventilator Wall Mounted Direct Drive

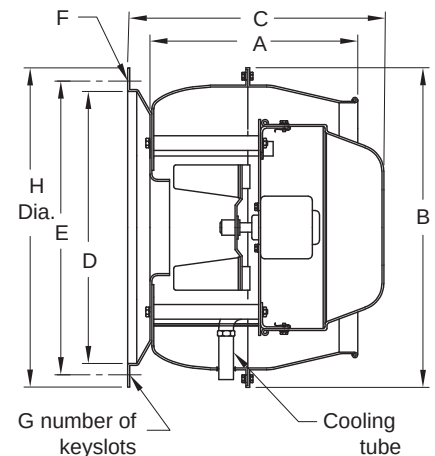


LOREN COOK COMPANY certifies that the ACWD, ACWD-EC, ACWD-HP, ACWDEC-HP, ACWD-XP, and ACWDEC-XP shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

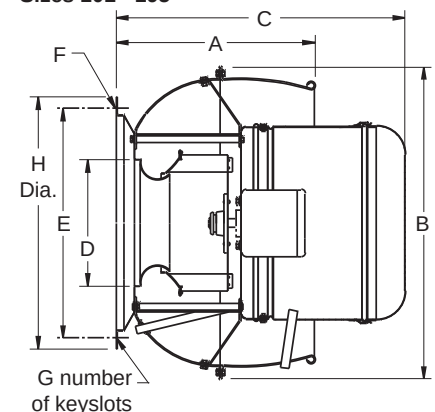


Type ACWD, ACWD-EC, ACWD-HP, ACWDEC-HP, ACWD-XP, and ACWDEC-XP are furnished standard with UL 705 and cUL 705 listings (Power Ventilator/ZACT).

Sizes 70 - 100



Sizes 101 - 195



ACWD Performance Data

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	Max. Watts	CFM at Static Pressure													
					0.000" SP	0.125" SP	0.250" SP	0.375" SP	0.500" SP	0.625" SP	0.750" SP	0.875" SP	1.000" SP	1.250" SP	1.500" SP			
					Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP
70W10DL	1/25	1160	2123	72	100 3.4	56 3.6												
70W10DM		1150	2105	75	145 3.7	76 3.3												
70W10DH		1050	1922	80	194 5.0	89 4.9												
70W15DL	1/20	1720	3112	86	149 5.5	117 5.4	94 4.8											
70W15DM		1680	3057	92	211 6.6	169 5.9	116 5.1											
70W15DH		1550	2837	92	274 6.4	210 6.4	151 5.9											
90W10DL	1/25	1130	2655	80	306 4.6	241 4.2	167 4.1											
90W10DM		1110	2596	85	391 5.2	299 4.8	184 4.0											
90W10DH		1050	2478	85	470 4.4	353 4.3	201 4.1											
90W15DL	1/8	1710	4047	95	462 8.4	422 8.1	383 7.9	340 7.5	297 7.1	246 6.7	168 6.2							
90W15DM		1680	3841	118	584 9.9	526 9.7	467 9.6	405 8.8	325 8.0	242 7.3	172 6.7							
90W15DH		1550	3658	132	696 7.8	616 7.8	533 7.3	456 7.1	384 7.0	263 6.9	166 6.8							
100W10DL	1/25	1100	2882	89	370 6.1	304 5.9	227 5.7											
100W10DM		1090	2817	90	435 6.1	358 5.8	256 5.5	124 5.2										
100W10DH		1050	2751	94	554 6.6	424 6.9	261 6.4											
100W15DL	1/8	1650	4362	130	549 10.0	509 9.7	468 9.4	424 9.0	376 8.7	320 8.8	254 8.9	177 9.1						
100W15DM		1640	4258	139	656 10.6	591 10.3	537 9.9	477 9.8	415 9.6	346 9.7	271 9.8	173 9.9						
100W15DH		1550	4061	169	816 9.6	727 9.5	641 9.4	554 9.6	449 9.9	372 10.2	240 10.5							
101W10D	1/25	1050	2749	-	585 4.7 .03	504 4.6 .03	399 4.2 .04											
101W11D	1/4	1140	2985	-	635 5.8 .04	560 5.7 .04	479 5.3 .05											
101W15D	1/8	1550	4058	-	864 9.9 .10	808 9.8 .10	754 9.7 .11	697 9.4 .11	628 9.0 .12	484 8.6 .11								
101W17D	1/6	1725	4516	-	961 11.5 .14	911 11.5 .14	862 11.4 .15	813 11.3 .15	760 10.9 .15	695 10.5 .16	569 10.2 .15							
120W10D	1/6	1075	3376	-	1095 7.6 .08	998 7.6 .09	892 7.1 .09	779 6.5 .09										
120W11D	1/6	1140	3581	-	1161 8.7 .09	1070 8.7 .10	971 8.3 .11	868 7.7 .11	733 7.1 .11									
120W13D	1/4*	1300	4084	-	1324 11.4 .14	1244 11.4 .15	1161 11.1 .16	1072 10.6 .16	981 10.0 .16	867 9.4 .16								
120W15D		1550	4869	-	1579 14.9 .24	1512 14.9 .25	1444 14.9 .26	1372 14.5 .26	1298 14.2 .27	1223 13.9 .27	1143 13.5 .28	1047 13.2 .28	872 13.0 .27					
120W17D	1/3	1725	5417	-	1757 17.6 .33	1697 17.6 .34	1637 17.6 .35	1574 17.4 .36	1509 17.1 .37	1442 16.7 .37	1374 16.4 .37	1304 16.1 .38	1227 15.8 .38	946 15.2 .36				
135W10D	1/6	1075	3795	-	1656 9.6 .14	1550 9.6 .15	1441 9.2 .16	1324 8.6 .16	1177 8.0 .16									
135W11D	1/6	1140	4029	-	1756 11.2 .16	1657 11.2 .18	1555 10.9 .18	1447 10.3 .19	1325 9.7 .19	1140 9.1 .19	1325 9.7 .19							
135W13D	1/2*	1300	4595	-	2002 14.6 .24	1915 14.6 .26	1827 14.5 .27	1736 14.0 .28	1640 13.5 .28	1535 12.8 .28	1640 13.5 .28	1152 11.8 .27						
135W15D		1550	5478	-	2387 19.0 .41	2315 19.0 .43	2241 19.0 .44	2167 18.8 .46	2091 18.4 .47	2012 18.1 .47	2091 18.4 .47	1841 17.5 .48	1736 17.1 .48	1358 16.5 .45				
135W17D	3/4	1725	6089	-	2657 23 .56	2592 23 .58	2526 23 .60	2459 23 .62	2392 23 .63	2323 23 .64	2253 22 .65	2180 22 .65	2103 22 .66	1922 21 .67	1614 21 .64			

Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown for models 70 - 100 is nominal. Performance is based on actual speed of test. Speed (RPM) for all other models is constant and based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels. *Motor is a 2-speed 1300/1500 RPM motor.

150-180 ACWD

Cat. No.	Mtr. HP	Fan RPM	Tip Speed	0.000" SP	0.125" SP	0.250" SP	0.375" SP	0.500" SP	0.625" SP	0.750" SP	0.875" SP	1.000" SP	1.250" SP	1.500" SP
				Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP
150W10D	1/3	1075	4225	2272	2154	2035	1910	1775	1601	1258				
				12.1 .23	12.1 .25	11.9 .26	11.4 .27	10.8 .27	10.2 .27	9.6 .25				
150W11D	1/3	1140	4477	2409	2298	2186	2071	1948	1808	1948				
				13.9 .27	13.9 .29	13.7 .31	13.3 .32	12.7 .32	12.1 .32	12.7 .32				
150W13D	3/4*	1300	5105	2747	2650	2553	2453	2351	2244	2351	1989	1791		
				18.0 .41	18.0 .43	18.0 .45	17.6 .46	17.2 .47	16.6 .47	17.2 .47	15.6 .48	15.1 .48		
150W15D	1550	6087		3275	3194	3113	3030	2947	2862	2947	2685	2590	2365	1979
				24 .69	24 .72	24 .74	24 .76	23 .78	23 .79	23 .78	22 .80	22 .81	21 .82	21
165W10D	1/3	1075	4644	2925	2728	2543	2359	2156	1981	1696				
				14.9 .37	14.9 .38	14.8 .39	14.4 .39	13.8 .39	13.3 .39	12.8 .39				
180W10D	3/4*	1075	5066	4065	3936	3805	3667	3518	3344	3518	2899	2646		
				16.4 .61	16.4 .63	16.3 .65	15.6 .67	14.9 .69	14.4 .70	14.9 .69	13.6 .70	13.2 .69		
180W11D	3/4*	1140	5369	4310	4189	4066	3939	3803	3653	3474	3261	3047		
				17.9 .73	17.9 .75	17.9 .77	17.2 .79	16.5 .81	15.9 .83	15.5 .84	15.2 .84	14.8 .83		

150-195 ACWD-HP

Cat. No.	Mtr. HP	Fan RPM	Tip Speed	0.125" SP	0.250" SP	0.375" SP	0.500" SP	0.625" SP	0.750" SP	0.875" SP	1.000" SP	1.250" SP	1.500" SP	1.750" SP
				Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP
150WH10D	1/6	1075	4222	988	913	817	711	579						
				6.4 .12	6.5 .12	6.5 .13	6.4 .13	5.9 .13						
150WH11D	1/4	1140	4477	1055	987	904	804	696	566					
				7.2 .14	7.2 .15	7.3 .15	7.3 .15	6.9 .15	6.4 .15					
150WH13D	1/3*	1300	5105	1220	1163	1099	1022	934	846	736	623			
				9.2 .20	9.2 .21	9.1 .22	9.3 .23	9.5 .23	9.1 .23	8.6 .23	8.1 .22			
150WH15D	1550	6087		1475	1428	1379	1326	1266	1196	1122	1049	872	668	
				12.4 .34	12.4 .35	12.3 .36	12.2 .37	12.3 .38	12.4 .38	12.4 .39	12.3 .39	11.4 .38	10.6 .36	
150WH17D	1/2	1725	6774	1651	1609	1566	1521	1473	1420	1359	1293	1161	1005	834
				14.8 .47	14.8 .48	14.8 .49	14.8 .50	14.7 .51	14.7 .52	14.6 .53	14.6 .53	14.4 .53	13.7 .53	13.1 .51
165WH10D	1/3	1075	4644	1830	1742	1633	1514	1375	1175					
				8.9 .22	8.7 .23	8.5 .24	8.3 .25	8.1 .25	8.1 .25					
165WH11D	1/3	1140	4924	1950	1869	1772	1662	1546	1393	1194				
				9.9 .26	9.7 .27	9.5 .28	9.3 .29	9.1 .30	9.0 .30	9.0 .29				
165WH13D	3/4*	1300	5616	2244	2176	2100	2012	1915	1816	1704	1556			
				12.6 .38	12.6 .39	12.3 .41	11.9 .42	11.6 .43	11.6 .44	11.4 .44	11.5 .44			
165WH15D	1550	6696		2699	2643	2585	2522	2451	2373	2292	2210	2027	1765	1428
				16.5 .63	16.5 .65	16.5 .67	16.2 .69	15.9 .70	15.6 .72	15.4 .73	15.1 .74	14.8 .75	14.8 .74	15.0 .72
195WH10D	3/4	1075	5488	3522	3402	3274	3127	2964	2791	2604	2392			
				14.7 .57	14.7 .60	14.3 .62	13.9 .63	13.3 .65	12.6 .66	11.9 .67	11.2 .67			
195WH11D	3/4	1140	5820	3748	3637	3519	3388	3240	3083	2917	2738	2296		
				16.4 .67	16.4 .70	16.2 .73	15.7 .75	15.3 .76	14.4 .77	13.8 .79	13.1 .80	11.9 .79		

165-195 ACWD-XP

Cat. No.	Mtr. HP	Fan RPM	Tip Speed	0.125" SP	0.250" SP	0.375" SP	0.500" SP	0.625" SP	0.750" SP	0.875" SP	1.000" SP	1.250" SP	1.500" SP	1.750" SP
				Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP	Sone BHP
165WX10D	1/6	1075	4644	884	833	784	718	648	550					
				7.4 .1	7.1 .1	6.8 .11	6.5 .12	6.3 .12	6.1 .12					
165WX11D	1/4	1140	4924	945	895	850	795	728	662	547				
				8.2 .11	7.9 .12	7.7 .13	7.4 .14	7.1 .14	6.9 .15	6.7 .15				
165WX13D	1/3*	1300	5616	1093	1045	1005	965	918	859	802	741	512		
				10.3 .16	10.1 .17	9.9 .18	9.6 .19	9.4 .2	9.1 .21	8.8 .21	8.7 .22	8.4 .21		
165WX15D	1550	6696		1321	1278	1241	1207	1174	1139	1099	1051	954	839	635
				13.9 .27	13.8 .28	13.6 .3	13.4 .31	13.2 .32	12.9 .33	12.7 .34	12.5 .35	12.0 .36	11.7 .37	11.4 .36
165WX17D	1/2	1725	7451	1480	1441	1404	1372	1342	1312	1282	1248	1166	1078	988
				16.3 .37	16.1 .39	16.0 .4	15.8 .41	15.7 .43	15.5 .44	15.3 .45	15.0 .46	14.6 .48	14.2 .49	13.9 .51
180WX10D	1/3	1075	5066	1160	1102	1041	984	930	857	741	614			
				8.7 .14	8.4 .15	8.0 .16	7.8 .17	7.6 .17	7.6 .18	7.6 .19	7.7 .19			
180WX11D	1/4	1140	5372	1236	1182	1125	1069	1018	964	884	773			
				9.6 .16	9.3 .17	9.0 .19	8.7 .19	8.5 .2	8.4 .21	8.4 .22	8.5 .23			
180WX13D	1/2*	1300	6126	1423	1377	1329	1278	1229	1183	1139	1089	918	698	
				12.3 .24	12.0 .25	11.7 .26	11.3 .28	11.1 .29	10.9 .3	10.8 .31	10.7 .32	10.7 .34	11.0 .32	
180WX15D	1550	7304		1713	1675	1636	1595	1553	1511	1470	1430	1356	1266	1112
				16.9 .39	16.5 .41	16.2 .43	15.8 .44	15.5 .46	15.2 .47	15.0 .49	14.9 .5	14.7 .52	14.5 .54	14.6 .57
180WX17D	3/4	1725	8129	1914	1880	1846	1810	1774	1736	1698	1660	1589	1522	1448
				19.7 .54	19.4 .55	19.1 .57	18.8 .59	18.5 .61	18.2 .63	18.1 .64	17.9 .66	17.7 .69	17.6 .71	17.4 .74
195WX10D	1/3	1075	5488	1497	1429	1362	1296	1226	1150	1066	961			
				9.5 .21	9.1 .22	8.7 .23	8.3 .25	8.0 .26	7.8 .27	7.5 .28	7.2 .28			
195WX11D	1/3	1140	5820	1596	1531	1468	1406	1342	1274	1200	1119	883		
				10.6 .24	10.2 .26	9.7 .27	9.4 .29	9.1 .3	8.8 .31	8.5 .32	8.3 .33	7.7 .33		
195WX13D	3/4*	1300	6637	1837	1780	1723	1669	1614	1559	1501	1440	1307	1129	
				13.7 .35	13.2 .37	12.8 .39	12.3 .41	11.9 .42	11.6 .44	11.3 .45	11.1 .46	10.7 .48	10.1 .5	
195WX15D	1550	7913		2210	2162	2114	2067	2021	1975	1929	1883	1787	1684	1571
				18.8 .59	18.3 .61	17.8 .64	17.4 .66	17.0 .68	16.6 .7	16.2 .72	15.9 .74	15.3 .77	15.0 .79	14.7 .82

Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown for model 165W10 is nominal. Performance is based on actual speed of test. Speed (RPM) for all other models is constant and based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels. *Motor is a 2-speed 1300/1550 RPM motor.

ACWDEC Performance Data

Catalog Number	HP	Fan RPM	Tip Speed	Max Watts	CFM at Static Pressure												
					0.00" SP	0.125" SP	0.250" SP	0.375" SP	0.500" SP	0.625" SP	0.750" SP	0.875" SP	1.000" SP	1.250" SP	1.500" SP		
					Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts		
70W17DEC	1/4	429	784	5	74 0.2 5												
		861	1581	12	149 1.6 12												
		1293	2369	25	223 4.7 25	140 4.1 21											
		1725	3160	49	298 6.4 49	238 5.7 45	172 5.0 38	94 4.3 30									
90W17DEC	1/4	465	1095	7	195 0.2 7												
		885	2085	24	372 3.4 24	218 2.5 20											
		1305	3074	62	548 8.6 62	456 7.7 58	345 6.9 53	190 5.9 41									
		1725	4064	132	725 12.8 132	659 12.1 128	583 11.4 124	500 10.7 117	405 9.9 107	289 9.0 90							
100W17DEC	1/4	468	1225	7	239 0.2 7												
		887	2322	28	454 2.9 28	305 2.7 26											
		1306	3419	75	668 7.7 75	578 7.6 74	470 7.4 70										
		1725	4516	163	882 11.5 163	817 11.5 162	744 11.4 159	664 11.3 154	572 10.9 147	470 10.5 137							
101W17DEC	1/4	468	1225	6	260 0.2 6												
		887	2322	23	494 2.9 21	392 2.7 23											
		1306	3419	61	727 7.7 54	653 7.6 56	589 7.4 59	512 6.9 61	359 6.5 55								
		1725	4516	131	960 11.5 114	902 11.5 117	850 11.4 121	803 11.3 124	750 10.9 128	690 10.5 131	626 10.2 129	465 9.9 116					
120W17DEC	1/2	471	1479	12	484 0.8 12												
		889	2792	55	914 4.9 50	795 4.8 54	651 4.1 55										
		1307	4106	156	1343 11.5 141	1264 11.5 146	1182 11.2 152	1093 10.7 155	992 10.1 156	879 9.5 155							
		1725	5419	346	1773 17.6 311	1713 17.6 318	1652 17.6 326	1591 17.4 332	1527 17.1 339	1459 16.7 343	1386 16.4 346	1307 16.1 346	1224 15.8 344				
135W17DEC	3/4	561	1982	31	845 2.3 29	607 1.9 31											
		949	3354	118	1429 7.4 106	1303 7.4 112	1165 6.9 117	1006 6.3 118									
		1337	4725	311	2014 15.1 276	1925 15.1 285	1835 15.1 294	1740 14.7 301	1638 14.2 307	1526 13.5 309	1412 13.1 311	1284 12.7 309					
		1725	6096	653	2598 22 578	2529 22 590	2460 22 602	2390 22 613	2319 22 623	2245 22 632	2167 21 640	2085 21 646	1998 21 649	1820 20 653	1606 19.5 644		

Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels.

150 ACWDEC-HP

Catalog Number	HP	Fan RPM	Tip Speed	Max Watts	CFM at Static Pressure													
					0" S.P.	0.125" SP	0.250" SP	0.375" SP	0.500" SP	0.625" SP	0.750" SP	0.875" SP	1.000" SP	1.250" SP	1.500" SP			
					Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts
150WH17DEC	1/2	543	2132	20	523	355												
					1.4 17	1.4 20												
		937	3679	78	903	819	724	610	471									
					5.0 65	5.0 71	5.0 76	4.8 78	4.4 77									
		1331	5226	209	1282	1224	1164	1101	1032	953	871	783	677					
					9.6 171	9.6 179	9.6 186	9.5 195	9.7 201	9.8 205	9.7 208	9.1 209	8.7 206					
		1725	6774	443	1662	1617	1572	1525	1478	1429	1377	1321	1260	1134	996			
					14.8 360	14.8 370	14.8 380	14.8 390	14.8 401	14.7 411	14.7 421	14.6 428	14.6 433	14.4 441	13.7 443			

165-180 ACWDEC-XP

Catalog Number	HP	Fan RPM	Tip Speed	Max Watts	CFM at Static Pressure													
					0" S.P.	0.125" SP	0.250" SP	0.375" SP	0.500" SP	0.625" SP	0.750" SP	0.875" SP	1.000" SP	1.250" SP	1.500" SP			
					Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts	Sone Watts
165WX17DEC	1/2	528	2280	20	465	350												
					2.0 17	1.4 20												
		927	4004	92	816	756	692	621	548	451								
					6.1 66	5.7 73	5.3 80	5.0 86	4.8 92	4.6 90								
		1326	5727	251	1167	1125	1083	1039	993	946	896	845	793	664				
					10.9 176	10.7 186	10.5 197	10.3 207	10.1 217	9.8 226	9.5 234	9.2 242	9.0 251	8.7 250				
180WX17DEC	1/4	1725	7451	522	1518	1486	1454	1421	1388	1354	1320	1284	1248	1171	1093			
					16.4 376	16.3 389	16.1 402	16.0 416	15.8 429	15.7 443	15.5 456	15.3 469	15.0 481	14.6 501	14.2 522			
		555	2615	37	639	524	385											
					2.6 28	2.1 34	1.8 37											
		945	4456	149	1089	1022	954	886	819	736	636	534						
					7.4 107	7.0 116	6.6 125	6.3 133	6.1 139	6.0 146	6.1 149	6.2 148						
		1335	6291	400	1538	1491	1443	1395	1347	1298	1251	1205	1157	1038	897			
					13.3 280	13.0 293	12.6 307	12.3 320	12.0 332	11.6 344	11.4 354	11.3 364	11.2 372	11.1 390	11.5 400			
		1725	8128	774	1987	1950	1914	1877	1840	1803	1766	1728	1691	1617	1545			
					20 589	19.7 607	19.4 624	19.1 641	18.8 658	18.5 675	18.2 691	18.1 707	17.9 722	17.7 750	17.6 774			

Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet hemispherical sone levels.

ACWB Specifications and Dimensions

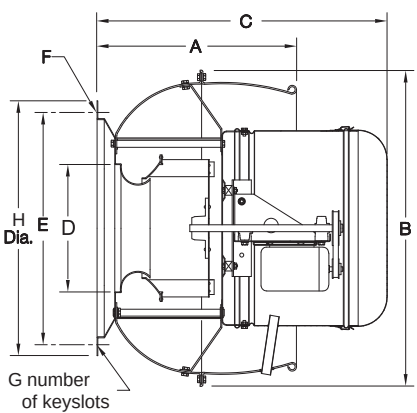
Centrifugal
Exhaust Ventilator
Wall Mounted
Belt Drive



LOREN COOK COMPANY certifies that the ACWB, ACWB-HP and ACWB-XP 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 ACWB, ACWB-HP and ACWB-XP are furnished standard with UL 705 and cUL 705 listings (Power Ventilator/ ZACT) when furnished with factory supplied motor.



Description: Fan shall be a spun aluminum, wall mounted, belt driven, horizontal centrifugal exhaust ventilator.

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: Fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The spun aluminum structural components shall be constructed of minimum 16 gauge marine alloy aluminum, bolted to a rigid aluminum support structure. The spun aluminum wall flange shall have pre-punched keyslot holes and a mounting template with wall opening location for ease of installation. The windband shall have a rolled bead for added strength. A two piece top cap shall have stainless steel quick release latches to provide access into the motor compartment without the use of tools. An integral conduit chase shall be provided into the motor compartment to facilitate wiring connections. The motor, bearings and drives shall be mounted on a minimum 14 gauge steel power assembly. These components shall be enclosed in a weather-tight compartment, separated from the exhaust airstream. Lifting lugs shall be provided to help prevent damage from improper lifting. 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.

Wheel: Wheel shall be centrifugal backward inclined, constructed of 100 percent aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

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

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

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

Product: Fans shall be models ACWB, ACWB-HP or ACWB-XP as manufactured by LOREN COOK COMPANY of Springfield, Missouri.

Dimensions

Size	A	B	C			D Wall Opening		E	F	G	H Dia.	Ship. Wt.
			ACWB	ACWB-HP	ACWB-XP	Square	Round					
100	13	25-3/16	21-3/8	-	-	10	10	19-3/4	3/8	4	21-1/4	30
120	18-7/16	30-3/16	28-1/4	-	-	12	12	23-1/2	3/8	4	25	60
135	18-7/16	30-3/16	28-3/4	-	-	12	12	23-1/2	3/8	4	25	65
150	20-1/16	34-11/16	30-3/8	27-5/8	-	16	14	28-1/2	3/8	4	30	70
165	20-1/16	34-11/16	30-7/8	27-7/8	26-13/16	16	14	28-1/2	3/8	4	30	75
180	22-11/16	39-7/16	35-5/8	33-1/8	31-5/16	20	18	34-1/2	3/8	8	36	100
195	22-11/16	39-7/16	36-1/8	33-1/4	31-7/8	20	22	34-1/2	3/8	8	36	110
210	23-11/16	45-1/4	37-3/4	34-3/4	32-1/8	24	22	39-1/2	3/8	8	41	210
225	23-11/16	45-1/4	38-1/4	35-5/8	33-7/16	24	22	39-1/2	3/8	8	41	215
245	25-5/16	49-1/4	39-7/8	36-1/8	32-7/8	24	22	43-1/2	3/8	8	45	250

All dimensions in inches. Weights in pounds, less motor.

100 ACWB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
100W2B	1/6* 15 lbs.	740	1937	412		279																			
				1.7	.01	1.6	.01																		
		940	2460	524		433																			
				3.5	.02	3.3	.02																		
		1140	2984	635		560		479																	
				5.8	.04	5.7	.04	5.3	.05																
		1340	3508	747		683		619		542															
				8.0	.06	7.9	.07	7.7	.07	7.3	.07														
100W3B	1/4* 15 lbs.	1540	4031	858		802		747		690		619		469											
				9.8	.10	9.7	.10	9.6	.11	9.3	.11	8.9	.11	8.5	.10										
		1742	4560	970		921		872		824		772		709		592									
				11.7	.14	11.6	.15	11.5	.15	11.4	.16	11.1	.16	10.7	.16	10.3	.16								
		1807	4730	1007		959		912		865		817		761		678		531							
				12.4	.16	12.3	.16	12.3	.17	12.2	.17	11.9	.18	11.5	.18	11.2	.18	10.9	.16						
		1872	4900	1043		997		951		906		860		810		745		626							
				13.1	.17	13.1	.18	13.0	.19	12.9	.19	12.7	.19	12.4	.20	12.1	.20	11.8	.19						
100W3B	15 lbs.	1937	5071	1079		1035		991		947		903		856		801		714		576					
				14.1	.19	14.0	.20	13.9	.21	13.8	.21	13.6	.21	13.2	.22	13.0	.22	12.77	.22	12.4	.20				
		2002	5241	1115		1072		1030		988		945		901		851		786		671					
				15.2	.21	15.1	.22	15.0	.23	14.9	.23	14.8	.24	14.4	.24	14.0	.25	13.6	.25	13.3	.24				

*1/6 & 1/4 HP motor available only in single phase ODP type.

120 ACWB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
120W2B	1/6 15 lbs.	904	2840	978		865		736																	
				5.2	.04	5.0	.05	4.4	.05																
		1040	3267	1125		1028		924		792															
				7.1	.07	7.0	.08	6.6	.08	5.9	.08														
		1176	3694	1272		1186		1098		1001		868		193											
9.3	.10			9.3	.11	9.0	.11	8.3	.12	7.7	.12	7.2	.05												
120W3B	1/4 15 lbs.	1313	4124	1420		1344		1265		1183		1092		967		651									
				11.5	.14	11.5	.15	11.3	.16	10.8	.16	10.2	.16	9.6	.16	9.0	.14								
		1378	4329	1491		1418		1343		1266		1183		1083		918									
				12.4	.16	12.4	.17	12.2	.18	11.8	.18	11.2	.19	10.7	.19	10.3	.18								
		1443	4533	1561		1491		1421		1348		1271		1184		1068		836							
13.2	.18			13.2	.19	13.1	.21	12.7	.21	12.2	.21	11.8	.22	11.5	.22	11.1	.20								
120W4B	1/3 19 lbs.	1509	4740	1632		1566		1498		1429		1357		1279		1186		1046		664					
				14.2	.21	14.2	.22	14.1	.23	13.8	.24	13.4	.24	13.1	.25	12.8	.25	12.5	.25	12.1	.19				
		1562	4907	1690		1625		1560		1494		1425		1352		1269		1161		968					
				15.1	.23	15.1	.24	15.1	.26	14.8	.26	14.4	.27	14.1	.27	13.7	.27	13.5	.28	13.2	.26				
		1615	5073	1747		1685		1622		1558		1492		1423		1347		1256		1123					
16.0	.26			16.0	.27	16.0	.28	15.7	.29	15.3	.30	15.0	.30	14.7	.30	14.4	.30	14.1	.30						
1669	5243	1805		1745		1685		1623		1560		1494		1423		1343		1239							
		16.8	.28	16.8	.30	16.8	.31	16.5	.32	16.2	.32	15.8	.33	15.5	.33	15.2	.34	14.9	.34						

135 ACWB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
135W2B	1/6 15 lbs.	837	2958	1289		1152		1001		676															
				5.7	.06	5.6	.07	5.0	.08	4.4	.07														
		957	3382	1474		1355		1230		1081															
				7.6	.10	7.5	.11	7.1	.11	6.5	.11														
135W3B	1/4 15 lbs.	1078	3809	1660		1555		1447		1330		1184													
				9.8	.14	9.8	.15	9.5	.16	8.9	.16	8.3	.16												
		1132	4000	1744		1643		1541		1432		1308		1113											
				11.0	.16	11.0	.17	10.7	.18	10.1	.18	9.5	.19	8.9	.19										
135W4B	1/3 19 lbs.	1186	4191	1827		1731		1634		1532		1420		1275		971									
				12.2	.18	12.2	.20	12.0	.21	11.5	.21	10.8	.22	10.2	.22	9.7	.20								
		1240	4382	1910		1819		1726		1629		1527		1406		1219									
				13.5	.21	13.5	.22	13.3	.23	12.9	.24	12.2	.24	11.6	.25	11.0	.24								
135W5B	1/2 23 lbs.	1306	4615	2012		1925		1837		1747		1652		1548		1415		1182							
				14.7	.24	14.7	.26	14.6	.27	14.1	.28	13.6	.28	12.9	.29	12.4	.29	12.0	.28						
		1371	4845	2112		2029		1946		1860		1772		1677		1569		1419		1130					
				15.7	.28	15.7	.30	15.7	.31	15.3	.32	14.9	.33	14.2	.33	13.8	.33	13.5	.33	13.1	.30				
135W5B	1/2 23 lbs.	1473	5206	2269		2192		2115		2036		1955		1871		1781		1677		1538					
				17.4	.35	17.4	.37	17.4	.38	17.1	.40	16.8	.40	16.5	.41	16.1	.41	15.7	.41	15.4	.42				
		1574	5562	2424		2353		2280		2207		2132		2055		1975		1889		1791		1470			
				19.5	.43	19.5	.45	19.5	.46	19.3	.48	19.0	.49	18.7	.49	18.3	.50	18.0	.50	17.7	.51	17.1	.49		

ACWB / ACWB-HP Performance Data

150 ACWB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP			
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
150W2B	1/6 15 lbs.	760	2984	1606		1439		1254		889																	
				6.0	.08	5.9	.09	5.3	.10	4.7	.09																
		832	3267	1758		1606		1444		1238																	
				7.1	.11	7.0	.12	6.6	.12	5.9	.13																
		904	3550	1910		1770		1625		1462		1193															
				8.4	.14	8.4	.15	8.0	.16	7.4	.16	6.8	.16														
150W3B	1/4 15 lbs.	972	3817	2054		1924		1790		1647		1468															
				9.7	.17	9.7	.19	9.4	.20	8.9	.20	8.3	.20														
		1040	4084	2198		2076		1952		1822		1677		1469													
				11.3	.21	11.3	.22	11.1	.24	10.5	.24	9.9	.25	9.4	.25												
150W4B	1/3 19 lbs.	1149	4512	2428		2318		2207		2093		1971		1835		1648											
				14.1	.28	14.1	.30	14.0	.31	13.6	.32	13.0	.33	12.4	.33	11.8	.33										
150W5B	1/2 23 lbs.	1235	4849	2610		2508		2405		2299		2190		2074		1940		1756									
				16.6	.35	16.6	.37	16.5	.39	16.1	.40	15.7	.40	15.0	.41	14.4	.41	13.8	.41								
		1320	5183	2789		2694		2598		2500		2400		2295		2183		2052		1877							
				18.4	.43	18.4	.45	18.4	.47	18.0	.48	17.6	.49	17.1	.50	16.5	.50	16.0	.51	15.7	.51						
150W6B	3/4 31 lbs.	1420	5576	3001		2912		2823		2733		2641		2546		2447		2342		2221		1834					
				20	.53	20	.55	20	.58	20	.59	19.8	.61	19.4	.61	19.0	.62	18.6	.62	18.3	.63	17.6	.61				
		1519	5965	3210		3127		3044		2960		2875		2788		2698		2605		2506		2260					
				23	.65	23	.67	23	.70	23	.72	22	.73	22	.75	22	.75	21	.76	21	.76	20	.77				

150 ACWB-HP

Catalog Number	Mtr.HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
150WH2B	1/6 15 lbs.	881	3459	672		536		339																	
				4.4	.07	4.1	.07	3.7	.06																
		1162	4563	1012		932		835		606															
				7.4	.15	7.5	.16	7.6	.16	6.8	.16														
150WH3B	1/4 15 lbs.	1249	4904	1108		1039		954		763		491													
				8.5	.19	8.6	.20	8.7	.20	8.2	.20	7.3	.18												
		1336	5246	1202		1141		1069		899		689													
				9.6	.23	9.6	.24	9.8	.24	9.8	.25	8.7	.24												
150WH4B	1/3 19 lbs.	1407	5525	1277		1221		1158		1000		818		587											
				10.6	.26	10.4	.27	10.6	.28	10.9	.29	10.0	.29	9.1	.27										
		1478	5804	1352		1300		1242		1098		940		743											
				11.4	.30	11.3	.31	11.3	.32	11.6	.34	11.1	.33	10.2	.33										
150WH5B	1/2 23 lbs.	1587	6232	1466		1419		1368		1245		1102		940		753									
				12.9	.37	12.8	.38	12.8	.39	12.8	.41	12.9	.42	12.0	.41	11.3	.40								
		1696	6660	1579		1536		1489		1384		1253		1118		952		775							
				14.4	.45	14.4	.46	14.3	.47	14.3	.49	14.2	.51	13.9	.50	13.2	.50	12.6	.48						
150WH6B	3/4 31 lbs.	1824	7162	1711		1671		1629		1538		1427		1301		1174		1014		852					
				16.2	.56	16.2	.57	16.2	.58	16.2	.60	16.2	.62	16.1	.63	15.6	.63	15.1	.62	14.7	.60				
		1952	7665	1842		1805		1766		1685		1591		1477		1361		1239		1087		938			
				18.5	.68	18.5	.69	18.5	.71	18.4	.73	18.3	.75	18.3	.77	18.3	.77	17.8	.77	17.4	.76	17.1	.74		

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

165 ACWB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
165W2B	1/6	686	2963	1929		1725		1500		1024															
	15 lbs.	771	3330	6.3	.10	6.2	.11	5.5	.11	4.8	.10														
165W3B	1/4	829	3581	2168		1988		1797		1564															
	15 lbs.	887	3831	7.6	.14	7.6	.15	7.1	.16	6.4	.16														
165W4B	1/3	933	4030	2331		2164		1990		1796		1492													
	19 lbs.	980	4233	8.7	.17	8.7	.19	8.3	.20	7.7	.20	7.1	.20												
165W5B	1/2	1052	4544	2494		2338		2177		2004		1792		1337											
	23 lbs.	1125	4859	10.0	.21	10.0	.23	9.6	.24	9.1	.24	8.5	.25	7.9	.22										
165W6B	3/4	1210	5226	2624		2475		2323		2163		1981		1706											
	31 lbs.	1295	5594	11.1	.24	11.1	.26	10.8	.28	10.3	.28	9.7	.29	9.1	.29										
				2756		2615		2471		2320		2157		1950		1550									
				12.3	.28	12.3	.30	12.1	.32	11.7	.33	11.0	.33	10.4	.33	9.9	.31								
				2958		2827		2694		2556		2411		2249		2033		1608							
				14.3	.35	14.3	.37	14.1	.39	13.7	.40	13.2	.41	12.6	.41	12.1	.41	11.6	.38						
				3164		3041		2917		2790		2657		2517		2356		2138		1723					
				16.4	.43	16.4	.45	16.4	.47	16.0	.49	15.5	.49	14.9	.50	14.4	.50	13.9	.51	13.5	.46				
				3403		3289		3174		3057		2936		2811		2677		2525		2323					
				19.2	.53	19.2	.56	19.2	.58	18.8	.60	18.5	.61	17.9	.62	17.2	.62	16.6	.63	16.2	.63				
				3642		3535		3428		3319		3208		3094		2975		2848		2705		2251			
				22	.65	22	.68	22	.70	21	.72	21	.74	21	.75	20	.76	19.4	.76	18.9	.77	18.1	.75		

165 ACWB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
165WH2B	1/6	932	4025	1450		1314		1141																	
	15 lbs.			6.7	.16	6.5	.16	6.2	.16																
165WH3B	1/4	1072	4630	1736		1626		1507		1165															
	15 lbs.			8.7	.23	8.4	.24	8.3	.25	8.0	.24														
165WH4B	1/3	1128	4872	1846		1747		1635		1355															
	19 lbs.	1185	5118	9.5	.26	9.3	.28	9.1	.29	8.8	.29														
165WH5B	1/2	1273	5498	1957		1866		1762		1527		1142													
	23 lbs.	1361	5879	10.5	.30	10.2	.32	9.9	.33	9.7	.34	9.8	.32												
165WH6B	3/4	1463	6319	2125		2046		1954		1752		1466													
	31 lbs.	1566	6764	12.1	.37	11.8	.39	11.5	.40	11.1	.41	11.2	.41												
				2291		2221		2140		1956		1742		1421											
				13.5	.45	13.3	.46	13.0	.48	12.4	.50	12.3	.51	12.4	.50										
				2482		2419		2349		2184		2007		1771		1448									
				15.1	.55	14.9	.57	14.7	.59	14.1	.61	13.7	.63	13.7	.63	13.8	.61								
				2673		2615		2553		2408		2246		2069		1819		1503							
				16.8	.67	16.8	.69	16.5	.71	15.9	.74	15.4	.76	15.0	.77	15.1	.76	15.2	.75						
165WH7B	1	1646	7110	2820		2767		2709		2577		2426		2268		2074		1809		1467					
	36 lbs.	1727	7460	18.2	.77	18.2	.79	18.0	.81	17.4	.85	16.9	.88	16.4	.90	16.2	.90	16.1	.88	16.2	.85				
				2969		2918		2865		2745		2604		2457		2297		2082		1817					
				19.6	.89	19.6	.91	19.5	.93	19.0	.97	18.5	1.01	18.1	1.03	17.8	1.04	17.6	1.03	17.4	1.02				

165 ACWB-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
165WX3B	1/4	1355	5853	814		637																			
	15 lbs.			9.4	.24	9.1	.25																		
165WX4B	1/3	1498	6470	988		889		728																	
	19 lbs.			11.7	.32	11.3	.33	10.9	.33																
165WX5B	1/2	1609	6950	1121		1025		931		766		519													
	23 lbs.	1720	7429	13.3	.38	12.9	.40	12.5	.41	12.3	.41	12.0	.37												
165WX6B	3/4	1850	7991	1243		1160		1072		981		818		614											
	31 lbs.	1979	8548	15.0	.46	14.5	.48	14.1	.49	13.9	.50	13.7	.50	13.5	.47										
				1376		1310		1229		1148		1065		926		753									
				16.9	.56	16.5	.58	16.1	.59	15.7	.61	15.5	.62	15.3	.63	15.2	.61								
				1503		1448		1382		1304		1229		1152		1040		681							
				19.1	.67	18.6	.69	18.1	.71	17.8	.73	17.4	.74	17.2	.76	17.1	.77	16.9	.71						
165WX7B	1	2081	8989	1601		1551		1495		1427		1352		1281		1207		947							
	36 lbs.	2183	9129	21	.76	20	.79	20	.82	19.6	.84	19.1	.85	18.7	.87	18.6	.88	18.5	.89						
				1698		1651		1602		1544		1476		1405		1338		1170		876					
				23	.86	22	.90	22	.93	21	.95	21	.97	21	.99	20	1.00	20	1.04	19.9	.99				
165WX8B	1-1/2	2345	10129	1851		1807		1764		1717		1663		1601		1534		1408		1238		964			
	38 lbs.	2507	10829	26	1.05	25	1.09	25	1.12	25	1.15	24	1.18	24	1.20	23	1.22	23	1.25	22	1.29	22	1.24		
				2003		1961		1921		1880		1836		1786		1729		1606		1488		1324		1068	
				29	1.26	29	1.30	28	1.34	28	1.37	27	1.41	27	1.44	26	1.46	26	1.50	25	1.54	25	1.57	25	1.53

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

ACWB / ACWB-HP / ACWB-XP Performance Data

180 ACWB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP		
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone
180W2B	1/6 15 lbs.	635	2992	2446		2214		1945		1541																
				5.9	.14	5.6	.15	5.0	.16	4.5	.16															
180W3B	1/4 15 lbs.	730	3440	2812		2612		2395		2138		1751														
				7.6	.21	7.5	.23	6.9	.24	6.5	.25	6.0	.24													
180W4B	1/3 19 lbs.	807	3802	3109		2928		2738		2526		2272		1872												
				9.3	.29	9.3	.30	8.7	.32	8.2	.33	7.7	.33	7.3	.32											
180W5B	1/2 23 lbs.	927	4368	3571		3414		3253		3082		2893		2677		2401										
				12.2	.43	12.2	.45	11.8	.47	11.2	.49	10.7	.50	10.3	.51	9.9	.50									
180W6B	3/4 31 lbs.	1066	5023	4106		3970		3832		3690		3539		3376		3199		2997		2741						
				16.1	.66	16.1	.68	16.0	.71	15.3	.73	14.6	.74	14.2	.76	13.8	.77	13.4	.77	13.0	.76					
180W7B	1 36 lbs.	1176	5541	4530		4407		4283		4155		4023		3885		3738		3579		3405		2948				
				18.6	.89	18.6	.91	18.6	.94	18.1	.96	17.4	.98	16.7	1.00	16.3	1.01	15.9	1.02	15.5	1.03	14.8	1.02			
180W8B	1-1/2 38 lbs.	1264	5956	4869		4755		4639		4522		4402		4277		4146		4007		3860		3523		3029		
				21	1.10	21	1.13	21	1.16	20	1.18	19.7	1.20	19.0	1.23	18.4	1.24	18.0	1.26	17.6	1.27	16.9	1.28	16.3	1.25	
				5204		5097		4989		4880		4769		4655		4536		4413		4283		3999		3658		
180W9B	2 50 lbs.	1419	6686	5466		5364		5262		5158		5053		4946		4835		4721		4601		4345		4054		
				24	1.56	24	1.59	24	1.62	24	1.65	24	1.68	23	1.70	23	1.73	22	1.75	22	1.77	21	1.80	20	1.81	
				5732		5635		5537		5439		5339		5238		5134		5027		4916		4681		4423		
		1488	7012	26	1.80	26	1.83	26	1.86	26	1.89	26	1.92	25	1.95	25	1.98	24	2.00	24	2.02	23	2.06	22	2.08	

180 ACWB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
180WH3B	1/4 15 lbs.	897	4227	2068		1910		1724																	
				8.8	.22	8.4	.23	7.9	.24																
180WH4B	1/3 19 lbs.	992	4674	2344		2212		2060		1704															
				10.6	.30	10.3	.31	9.9	.32	8.8	.33														
180WH5B	1/2 23 lbs.	1139	5367	2759		2652		2534		2258		1939													
				13.7	.44	13.5	.46	13.1	.47	12.2	.49	11.0	.51												
180WH6B	3/4 31 lbs.	1225	5772	2998		2900		2796		2557		2278													
				15.5	.55	15.4	.56	15.1	.58	14.3	.60	13.3	.62												
				3234		3144		3050		2839		2592		2323											
180WH7B	1 36 lbs.	1446	6814	17.6	.66	17.5	.68	17.2	.70	16.6	.72	15.6	.75	14.4	.77										
				3602		3521		3438		3260		3057		2827		2583									
180WH8B	1-1/2 38 lbs.	1553	7318	3891		3817		3741		3580		3403		3204		2984		2756							
				22	1.08	22	1.11	22	1.13	22	1.17	21	1.19	20	1.22	19.5	1.26	18.7	1.28						
				4178		4109		4039		3893		3735		3561		3367		3159		2945		2674			
180WH9B	2 50 lbs.	1744	8218	25	1.32	25	1.34	25	1.37	24	1.41	24	1.44	23	1.47	22	1.51	22	1.54	21	1.57	20	1.56		
				4403		4338		4271		4134		3988		3829		3655		3464		3264		3057		2785	
				27	1.52	27	1.55	27	1.57	27	1.62	26	1.66	25	1.69	25	1.72	24	1.76	23	1.80	22	1.82	22	1.80
		1829	8618	4630		4568		4505		4376		4240		4093		3935		3761		3575		3385		3185	
				29	1.75	29	1.78	29	1.80	29	1.86	28	1.90	28	1.93	27	1.96	26	2.00	26	2.05	25	2.08	24	2.10

180 ACWB-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
180WX3B	1/4 15 lbs.	1175	5537	848		595																			
				8.9	.25	9.1	.23																		
180WX4B	1/3 19 lbs.	1300	6126	1089		918		698																	
				10.7	.32	10.7	.34	11.0	.32																
180WX5B	1/2 23 lbs.	1492	7030	1354		1274		1156		988		774													
				14.0	.45	13.7	.47	13.6	.50	14.0	.51	14.3	.48												
180WX6B	3/4 31 lbs.	1717	8091	1650		1578		1511		1436		1322		1174		1022									
				17.8	.65	17.6	.68	17.4	.70	17.3	.73	17.2	.76	17.4	.77	17.7	.76								
180WX7B	1 36 lbs.	1805	8505	1764		1694		1629		1564		1486		1368		1227									
				19.3	.74	19.1	.77	19.0	.80	18.8	.83	18.7	.85	18.7	.89	18.9	.90								
				1879		1811		1746		1685		1622		1543		1422		1155							
180WX8B	1-1/2 38 lbs.	2034	9585	21	.84	21	.88	21	.91	20	.94	20	.96	20	.99	20	1.03	21	1.02						
				2058		1993		1930		1871		1814		1756		1688		1466		1216					
				24	1.02	23	1.06	23	1.10	23	1.13	23	1.16	23	1.19	23	1.22	23	1.28	23	1.27				
180WX9B	2 50 lbs.	2286	10772	2235		2175		2115		2056		2001		1948		1894		1760		1536		1301			
				26	1.22	26	1.27	26	1.31	26	1.34	26	1.38	26	1.41	25	1.44	25	1.51	26	1.57	26	1.55		
				2372		2316		2258		2201		2146		2094		2044		1938		1780		1558		1320	
180WX9B	50 lbs.	2397	11295	28	1.40	28	1.45	28	1.49	28	1.53	28	1.57	28	1.60	28	1.64	28	1.70	28	1.78	28	1.82	29	1.78
				2508		2455		2401		2346		2292		2240		2191		2094		1981		1802		1593	
180WX9B	50 lbs.	2397	11295	31	1.60	30	1.65	30	1.69	30	1.74	30	1.78	30	1.82	30	1.85	30	1.92	30	1.99	30	2.08	31	2.10

195 ACWB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
195W2B	1/6 15 lbs.	577	2945	2774		2506		2147		1510															
				6.0	.14	5.7	.15	5.0	.16	4.6	.15														
195W3B	1/4 15 lbs.	664	3389	3192		2963		2702		2329															
				7.5	.21	7.4	.23	6.8	.24	6.3	.25														
195W4B	1/3 19 lbs.	734	3747	3528		3323		3100		2816		2454													
				9.1	.29	9.1	.31	8.5	.32	8.0	.33	7.5	.33												
195W5B	1/2 23 lbs.	842	4298	4047		3869		3683		3476		3214		2899		2513									
				11.9	.44	11.9	.46	11.5	.48	10.8	.49	10.3	.50	9.9	.50	9.5	.49								
195W6B	3/4 31 lbs.	969	4946	4658		4504		4345		4178		3995		3776		3505		3231		2865					
				15.7	.67	15.7	.69	15.5	.71	14.9	.74	14.2	.75	13.8	.76	13.4	.77	12.9	.76	12.5	.74				
195W7B	1 36 lbs.	1069	5457	5139		4999		4857		4710		4554		4384		4184		3943		3695		3009			
				19.0	.89	19.0	.92	19.0	.95	18.4	.97	17.7	1.00	17.1	1.01	16.7	1.03	16.2	1.03	15.9	1.03	15.2	.98		
195W8B	1-1/2 38 lbs.	1149	5865	5523		5393		5262		5127		4986		4837		4674		4484		4259		3792			
		21	1.11	21	1.14	21	1.17	21	1.20	20	1.22	19.4	1.24	18.8	1.26	18.4	1.28	18.0	1.28	17.3	1.27				
		1228	6269	5903		5781		5659		5534		5405		5270		5127		4970		4791		4363		3912	
195W9B	2 50 lbs.	1290	6585	6201		6085		5969		5851		5729		5604		5472		5332		5178		4799		4386	
				25	1.57	25	1.60	25	1.64	25	1.67	24	1.70	24	1.73	23	1.75	22	1.78	22	1.79	21	1.81	21	1.80
		1353	6907	6504		6394		6283		6170		6056		5938		5816		5687		5550		5226		4834	
				27	1.81	27	1.85	27	1.88	27	1.92	26	1.95	26	1.98	25	2.01	24	2.03	24	2.05	23	2.09	22	2.09

195 ACWB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP																							
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP																				
195WH3B	1/4 15 lbs.	770	3930	2251		2019		1747																																							
				7.6	.23	7.1	.24	6.4	.25																																						
195WH4B	1/3 19 lbs.	851	4344	2571		2374		2155																																							
				9.3	.31	8.8	.32	8.2	.33																																						
195WH5B	1/2 23 lbs.	977	4987	3044		2893		2718		2318																																					
				12.3	.45	11.8	.47	11.2	.48	10.0	.50																																				
195WH6B	3/4 31 lbs.	1051	5365	3315		3182		3029		2680		2254																																			
				14.1	.56	13.7	.58	13.3	.59	12.0	.62	10.6	.63																																		
				3579	3459	3324	3012	2656	2179																																						
195WH7B	1 36 lbs.	1240	6330	3994		3888		3775		3513		3217		2883		2453																															
				18.8	.89	18.8	.92	18.4	.95	17.6	.98	16.1	1.01	14.7	1.03	13.6	1.01																														
195WH8B	1-1/2 38 lbs.	1332	6799	4319		4223		4121		3892		3629		3342		3016		2594																													
				21	1.10	21	1.13	21	1.16	19.9	1.20	18.6	1.23	17.3	1.26	16.0	1.28	14.9	1.25																												
				4643	4554	4461	4259	4023	3768	3491	3176	2773																																			
195WH9B	2 50 lbs.	1497	7642	4899		4814		4727		4541		4327		4091		3840		3565		3250		2832																									
				25	1.54	25	1.58	25	1.61	24	1.68	23	1.72	22	1.75	21	1.75	19.7	1.81	18.8	1.81	17.9	1.76																								
				5154	5073	4991	4818	4326	4404	4173	3926	3654	3342	2913																																	
195WH9B	50 lbs.	1570	8015	26		1.77		26		1.81		26		1.85		26		1.91		25		1.97		24		2.00		23		2.03		22		2.07		21		2.09		20		2.09		19.2		2.02	

195 ACWB-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
195WX3B	1/4 15 lbs.	1030	5258	823																					
				6.5	.25																				
195WX4B	1/3 19 lbs.	1139	5814	1117		879																			
				8.2	.33	7.7	.33																		
195WX5B	1/2 23 lbs.	1308	6677	1455		1324		1153		901															
				11.2	.47	10.8	.49	10.3	.51	9.7	.48														
195WX6B	3/4 31 lbs.	1505	7683	1806		1706		1596		1474		1315		1102											
				15.1	.68	14.6	.71	14.3	.74	13.8	.76	13.2	.77	12.7	.75										
195WX7B	1 36 lbs.	1583	8081	1939		1846		1747		1639		1517		1356		1150									
				16.5	.78	15.9	.81	15.6	.84	15.4	.87	14.7	.89	14.2	.90	13.7	.87								
		1660	8474	2068		1981		1889		1791		1686		1564		1402									
				17.9	.88	17.4	.92	16.9	.95	16.7	.98	16.4	1.01	15.8	1.03	15.2	1.04								
195WX8B	1-1/2 38 lbs.	1783	9102	2270		2190		2108		2022		1931		1834		1726		1423							
				20	1.06	19.7	1.11	19.2	1.15	18.8	1.18	18.6	1.21	18.4	1.24	17.8	1.27	16.8	1.27						
		1906	9730	2469		2394		2319		2242		2162		2077		1987		1780		1471					
				23	1.27	22	1.32	22	1.37	21	1.41	21	1.44	21	1.48	20	1.51	19.5	1.56	18.5	1.55				
195WX9B	2 50 lbs.	2003	10225	2624		2553		2482		2410		2336		2259		2177		2001		1775		1456			
				25	1.45	24	1.51	23	1.56	23	1.60	23	1.64	22	1.68	22	1.71	22	1.78	21	1.82	19.8	1.77		
		2100	10720	2778		2710		2643		2575		2506		2434		2360		2201		2020		1775		1455	
				26	1.65	26	1.71	25	1.76	25	1.81	25	1.86	24	1.90	24	1.94	24	2.01	23	2.07	22	2.10	21	2.01

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

ACWB / ACWB-HP / ACWB-XP Performance Data

210 ACWB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
210W2B	1/6 15 lbs.	510	2803	3062		2734		2263																	
				5.6	.14	5.2	.16	4.6	.16																
210W3B	1/4 15 lbs.	586	3221	3518		3238		2903		2424															
				7.2	.21	7.0	.23	6.3	.24	5.9	.24														
210W4B	1/3 19 lbs.	648	3562	3891		3639		3360		2977		2503													
				8.5	.29	8.5	.31	7.7	.33	7.2	.33	6.8	.32												
210W5B	1/2 23 lbs.	744	4090	4467		4249		4019		3754		3400		3008											
				10.8	.44	10.8	.46	10.3	.48	9.8	.50	9.3	.50	8.8	.50										
210W6B	3/4 31 lbs.	857	4711	5145		4957		4763		4556		4320		4021		3686		3309							
				14.3	.67	14.3	.69	14.0	.72	13.4	.74	12.8	.76	12.4	.77	11.9	.77	11.5	.75						
210W7B	1 36 lbs.	945	5195	5674		5503		5329		5148		4952		4731		4458		4153		3844					
				17.2	.89	17.2	.92	17.2	.95	16.6	.98	16.0	1.00	15.4	1.02	15.0	1.03	14.6	1.03	14.2	1.02				
210W8B	1-1/2 38 lbs.	1015	5580	6094		5935		5775		5608		5434		5244		5028		4766		4482		3839			
				19.8	1.11	19.8	1.14	19.8	1.17	19.3	1.20	18.7	1.23	18.1	1.25	17.6	1.27	17.2	1.28	16.8	1.28	16.1	1.24		
	38 lbs.	1085	5965	6514		6366		6216		6063		5903		5735		5551		5342		5095		4566		3772	
				23	1.35	23	1.39	23	1.42	22	1.43	22	1.49	21	1.51	20	1.53	19.7	1.55	19.3	1.56	18.6	1.55	17.9	1.48
210W9B	2 50 lbs.	1141	6272	6851		6710		6567		6422		6273		6117		5951		5769		5561		5065		4543	
				24	1.57	24	1.61	24	1.65	24	1.68	23	1.72	23	1.75	22	1.77	21	1.79	21	1.81	20	1.82	19.6	1.79
	50 lbs.	1196	6575	7181		7046		6911		6773		6632		6486		6333		6169		5989		5549		5069	
				26	1.81	26	1.85	26	1.89	26	1.93	25	1.96	24	1.99	24	2.02	23	2.05	23	2.07	22	2.09	21	2.08

210 ACWB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
210WH4B	1/3 19 lbs.	768	4222	2769		2511		2235																	
				8.4	.31	8.3	.32	7.9	.33																
210WH5B	1/2 23 lbs.	882	4849	3323		3093		2875		2341															
				10.7	.45	10.6	.47	10.6	.49	9.5	.50														
210WH6B	3/4 31 lbs.	1015	5580	3932		3759		3554		3176		2679		1793											
				13.7	.67	13.6	.70	13.6	.72	13.2	.75	12.2	.77	11.2	.69										
210WH7B	1 36 lbs.	1067	5866	4164		4008		3819		3452		3037		2485											
				14.9	.77	14.8	.81	14.8	.83	14.6	.87	13.8	.89	12.7	.87										
	36 lbs.	1120	6157	4398		4257		4085		3724		3371		2891		2091									
				16.2	.89	16.1	.92	16.1	.95	16.0	.99	15.3	1.02	14.2	1.03	13.3	.95								
210WH8B	1-1/2 38 lbs.	1286	7070	5122		5007		4881		4572		4264		3965		3579		3133		2301					
				19.8	1.31	19.7	1.36	19.7	1.40	19.6	1.46	19.5	1.50	18.9	1.54	18.1	1.57	17.2	1.55	16.4	1.41				
210WH9B	2 50 lbs.	1352	7433	5406		5300		5184		4905		4600		4323		4009		3609		3164		2260			
				21	1.52	21	1.56	21	1.61	21	1.68	21	1.73	21	1.77	20	1.80	19.3	1.82	18.4	1.78	17.7	1.59		
	50 lbs.	1417	7790	5685		5585		5478		5227		4932		4660		4390		4054		3659		3195		2263	
				23	1.74	23	1.79	23	1.83	23	1.92	23	1.98	23	2.02	22	2.06	21	2.09	20	2.09	19.7	2.03	19.0	1.80
210WH10B	3 74 lbs.	1521	8362	6131		6038		5942		5725		5462		5191		4944		4688		4374		4008		3618	
				26	2.13	26	2.19	26	2.24	26	2.33	26	2.41	25	2.46	25	2.51	25	2.55	24	2.58	23	2.59	22	2.54
	74 lbs.	1626	8939	6578		6493		6404		6213		5986		5728		5481		5253		5011		4722		4384	
				29	2.59	29	2.65	29	2.70	29	2.81	28	2.90	28	2.97	28	3.02	28	3.07	27	3.11	27	3.15	26	3.16

210 ACWB-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
210WX4B	1/3 19 lbs.	1004	5519	1127																					
				9.0	.33																				
210WX5B	1/2 23 lbs.	1153	6338	1558		1357		1102																	
				11.3	.48	11.2	.50	12.7	.50																
210WX6B	3/4 31 lbs.	1327	7295	1950		1832		1684		1487		1253													
				14.6	.69	14.5	.73	14.4	.76	14.6	.77	18.1	.76												
210WX7B	1 36 lbs.	1464	8048	2243		2138		2030		1905		1734		1552		1301									
				17.4	.90	17.3	.93	17.2	.97	17.1	1.01	17.0	1.03	18.2	1.03	27	1.01								
210WX8B	1-1/2 38 lbs.	1572	8642	2469		2370		2273		2172		2055		1900		1732									
				19.3	1.08	19.2	1.13	19.1	1.17	19.0	1.21	18.8	1.24	18.7	1.27	19.6	1.28								
	38 lbs.	1681	9241	2694		2600		2508		2417		2323		2215		2078		1759							
				22	1.30	21	1.34	21	1.39	21	1.43	21	1.47	21	1.51	21	1.55	23	1.56						
210WX9B	2 50 lbs.	1767	9714	2869		2780		2691		2605		2518		2426		2322		2041		1710					
				23	1.48	23	1.53	23	1.58	23	1.63	22	1.67	22	1.72	22	1.76	22	1.82	29	1.80				
	50 lbs.	1852	10181	3040		2956		2871		2787		2704		2621		2532		2309		2023		1646			
				25	1.68	25	1.74	24	1.79	24	1.84	24	1.89	24	1.94	24	1.98	24	2.07	25	2.10	40	2.04		
210WX10B	3 74 lbs.	1989	10935	3313		3235		3156		3077		2999		2922		2845		2679		2459		2192		1872	
				28	2.04	28	2.11	27	2.17	27	2.23	27	2.28	27	2.33	26	2.38	26	2.48	26	2.57	28	2.60	39	2.55
	74 lbs.	2126	11688	3583		3510		3437		3363		3289		3215		3143		2998		2837		2627		2378	
				32	2.46	31	2.53	30	2.60	30	2.66	30	2.72	30	2.78	29	2.83	29	2.94	29	3.04	29	3.13	31	3.17

225 ACWB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
225W3B	1/4 15 lbs.	533	3139	3684		3333		2854		2357															
				8.4	.20	8.0	.24	7.4	.24	6.6	.25														
225W4B	1/3 19 lbs.	589	3469	4071		3753		3381		2873															
				10.2	.27	9.8	.32	9.4	.32	8.5	.33														
225W5B	1/2 23 lbs.	677	3987	4680		4400		4119		3730		3288		2938											
				13.1	.41	12.7	.49	12.3	.48	11.8	.49	10.9	.49	10.2	.50										
225W6B	3/4 31 lbs.	779	4588	5385		5138		4904		4637		4281		3887		3565									
				17.3	.63	16.8	.74	16.4	.75	16.0	.73	15.4	.74	14.7	.75	14.0	.76								
225W7B	1 36 lbs.	819	4824	5661		5426		5204		4964		4655		4280		3932		3645							
				18.9	.73	18.5	.86	18.1	.87	17.7	.85	17.2	.85	16.5	.87	15.9	.87	15.2	.89						
		859	5059	5938		5712		5500		5279		5011		4671		4313		4010		3741					
				21	.84	20	.98	19.7	1.01	19.3	.99	18.9	.98	18.4	1.00	17.7	1.00	17.1	1.01	16.4	1.03				
225W8B	1-1/2 38 lbs.	923	5436	6380		6169		5971		5771		5548		5271		4942		4612		4330					
				24	1.05	23	1.20	23	1.25	22	1.24	22	1.22	21	1.22	21	1.24	20	1.25	19.5	1.26				
		986	5808	6816		6616		6430		6246		6049		5822		5544		5231		4923		4422			
				27	1.28	26	1.46	26	1.52	25	1.52	25	1.49	25	1.48	24	1.50	23	1.52	23	1.52	22	1.55		
225W9B	2 50 lbs.	1036	6102	7161		6970		6793		6618		6437		6236		5997		5716		5414		4878		4427	
				29	1.48	29	1.68	28	1.75	28	1.77	27	1.74	27	1.72	27	1.72	26	1.75	25	1.76	24	1.78	23	1.81
		1087	6402	7514		7332		7161		6994		6824		6643		6435		6191		5913		5357		4907	
				32	1.71	32	1.92	31	2.02	31	2.04	30	2.03	30	2.00	29	1.98	29	2.00	28	2.02	27	2.04	26	2.07

225 ACWB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
225WH5B	1/2 23 lbs.	606	3569	2553		2159		1479																	
				7.3	.23	7.0	.24	6.3	.22																
225WH6B	3/4 31 lbs.	779	4588	3634		3370		3074		2328															
				14.2	.46	13.9	.49	13.7	.50	13.1	.50														
225WH7B	1 36 lbs.	897	5283	4315		4110		3875		3356		2659													
				17.2	.69	17.0	.72	16.7	.74	16.3	.76	15.6	.77												
		989	5825	4830		4656		4459		4009		3521		2800											
				19.6	.90	19.6	.94	19.3	.97	18.7	1.02	18.4	1.03	17.5	1.02										
225WH8B	1-1/2 38 lbs.	1063	6261	5238		5082		4910		4511		4073		3584		2781									
				21	1.11	21	1.15	21	1.19	21	1.25	20	1.27	19.7	1.28	18.8	1.22								
		1136	6691	5638		5495		5341		4987		4588		4169		3662		2808							
				23	1.34	23	1.39	23	1.43	23	1.50	22	1.54	22	1.55	21	1.56	20	1.45						
225WH9B	2 50 lbs.	1194	7033	5953		5819		5677		5354		4985		4593		4174		3604							
				26	1.55	26	1.60	26	1.64	25	1.72	24	1.78	23	1.80	23	1.81	22	1.81						
		1251	7369	6262		6135		6002		5705		5364		4996		4615		4180		3542					
				28	1.78	28	1.82	28	1.87	28	1.96	27	2.03	26	2.06	26	2.07	25	2.08	24	2.06				
225WH10B	3 74 lbs.	1343	7910	6757		6641		6520		6257		5958		5628		5281		4924		4520		3958			
				34	2.18	34	2.23	34	2.28	34	2.38	33	2.47	32	2.53	32	2.55	31	2.57	31	2.58	30	2.57		
		1436	8458	7256		7148		7037		6801		6536		6241		5926		5600		5266		4893		4408	
				40	2.65	40	2.71	40	2.76	40	2.86	40	2.96	39	3.05	39	3.10	38	3.12	38	3.14	38	3.15	37	3.16

225 ACWB-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP		
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone
225WX5B	1/2 23 lbs.	1019	6002	1710		1493		1190																		
				11.5	.48	11.4	.51	11.3	.48																	
225WX6B	3/4 31 lbs.	1173	6909	2147		2013		1847		1635																
				14.9	.69	14.9	.73	14.8	.76	14.7	.77															
225WX7B	1 36 lbs.	1294	7622	2474		2353		2232		2089		1908		1700												
				17.3	.89	17.2	.93	17.1	.97	17.0	1.01	16.9	1.03	16.9	1.02											
225WX8B	1-1/2	1390	8187	2731		2613		2502		2388		2255		2091		1905										
				19.2	1.08	19.0	1.12	18.9	1.17	18.8	1.21	18.8	1.25	18.7	1.28	18.6	1.28									
	38 lbs.	1486	8753	2986		2871		2763		2660		2553		2430		2282		1924								
				21	1.29	21	1.34	21	1.39	21	1.43	21	1.48	21	1.52	20	1.56	20	1.54							
225WX9B	2	1562	9200	3185		3075		2968		2868		2770		2666		2547		2247		1852						
				23	1.48	23	1.53	23	1.58	23	1.63	22	1.68	22	1.73	22	1.77	22	1.82	22	1.75					
	50 lbs.	1637	9642	3380		3274		3170		3071		2977		2882		2782		2534		2221						
				25	1.68	25	1.74	25	1.79	24	1.84	24	1.89	24	1.94	24	1.99	24	2.08	24	2.08					
225WX10B	3 74 lbs.	1718	10119	3587		3487		3387		3289		3197		3107		3017		2813		2548		2232				
				27	1.92	27	1.98	27	2.04	27	2.09	26	2.14	26	2.20	26	2.25	26	2.35	26	2.42	26	2.39			
		1799	10597	3793		3698		3602		3507		3415		3328		3243		3065		2847		2576		2254		
				30	2.17	29	2.24	29	2.30	29	2.36	29	2.42	28	2.47	28	2.53	28	2.64	28	2.74	28	2.78	28	2.71	
		1879	11068	3994		3904		3812		3720		3630		3544		3461		3297		3114		2885		2614		
				32	2.45	32	2.52	31	2.59	31	2.65	31	2.71	31	2.77	31	2.83	30	2.95	30	3.06	30	3.15	30	3.16	

ACWB / ACWB-HP / ACWB-XP Performance Data

245 ACWB

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
245W3B	1/4 15 lbs.	442	2835	4058		3639		3116																	
				7.2	.22	6.8	.24	6.3	.24																
245W4B	1/3 19 lbs.	489	3136	4490		4114		3691		3060															
				9.0	.30	8.6	.32	8.2	.33	7.3	.33														
245W5B	1/2 23 lbs.	561	3598	5151		4825		4481		4067		3471													
				11.9	.45	11.6	.48	11.3	.50	11.0	.50	9.7	.49												
245W6B	3/4 31 lbs.	646	4143	5931		5649		5359		5047		4674		4185											
				14.8	.69	14.5	.72	14.2	.75	13.9	.77	13.6	.76	12.7	.76										
245W7B	1 36 lbs.	679	4355	6234		5966		5692		5402		5074		4662		4104									
				16.1	.80	15.7	.83	15.4	.86	15.1	.88	14.7	.89	14.4	.88	13.0	.87								
	712	4566		6537		6282		6022		5750		5453		5098		4650		3955							
				17.2	.92	16.9	.95	16.6	.99	16.3	1.01	15.9	1.03	15.5	1.02	14.7	1.01	13.5	.95						
245W8B	1-1/2 38 lbs.	765	4906	7023		6786		6546		6297		6035		5741		5391		4962		4325					
				19.7	1.14	19.4	1.18	19.0	1.21	18.7	1.25	18.3	1.27	17.8	1.27	17.3	1.27	16.4	1.25	15.4	1.19				
	818	5246		7510		7288		7064		6835		6596		6341		6052		5713		5307					
				22	1.39	22	1.43	22	1.47	21	1.51	21	1.54	21	1.56	20	1.56	19.7	1.54	18.7	1.53				
245W9B	2 50 lbs.	860	5516	7896		7685		7472		7255		7032		6797		6542		6251		5912		4947			
				24	1.62	24	1.66	24	1.70	24	1.74	23	1.78	23	1.80	22	1.81	22	1.81	22	1.79	19.3	1.71		
	902	5785		8281		8080		7878		7672		7461		7243		7011		6756		6465		5738			
				27	1.86	27	1.91	26	1.96	26	2.00	26	2.04	25	2.07	25	2.08	24	2.09	24	2.08	22	2.05		

245 ACWB-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
245WH5B	1/2 23 lbs.	670	4297	4143		3805		3393																	
				10.6	.47	10.0	.49	9.4	.50																
245WH6B	3/4 31 lbs.	771	4945	4929		4675		4369		3661															
				14.2	.71	13.8	.73	13.3	.74	12.0	.77														
245WH7B	1 36 lbs.	811	5201	5233		4998		4730		4061		3255													
				15.3	.81	15.0	.84	14.6	.86	13.4	.89	12.1	.88												
	850	5451		5528		5307		5065		4442		3783													
				16.5	.93	16.2	.96	15.8	.98	14.7	1.02	13.5	1.03												
245WH8B	1-1/2 38 lbs.	913	5856	5999		5796		5583		5056		4458		3732											
				18.4	1.14	18.2	1.18	17.8	1.20	16.9	1.25	15.8	1.28	14.7	1.26										
	976	6260		6466		6279		6084		5640		5075		4522		3721									
				20	1.38	20	1.42	19.9	1.45	19.1	1.50	18.1	1.55	17.1	1.56	16.1	1.52								
245WH9B	2 50 lbs.	1026	6580	6835		6657		6475		6076		5564		5036		4446									
				22	1.59	22	1.64	22	1.68	21	1.72	19.9	1.75	18.9	1.81	18.1	1.80								
	1076	6901		7201		7033		6860		6494		6044		5526		5027		4353							
				24	1.82	24	1.87	24	1.92	23	1.98	22	2.03	21	2.08	20	2.09	19.2	2.05						
245WH10B	3 74 lbs.	1156	7414	7785		7628		7470		7140		6769		6307		5832		5364		4738					
				27	2.23	27	2.30	27	2.35	27	2.43	26	2.48	25	2.54	24	2.59	23	2.59	22	2.55				
	1235	7921		8358		8212		8065		7762		7437		7055		6603		6166		5725		5153			
				31	2.70	31	2.77	31	2.84	30	2.93	30	2.99	29	3.05	28	3.12	27	3.16	26	3.16	25	3.12		

245 ACWB-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP		
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone
245WX5B	1/2 23 lbs.	877	5625	1801		1469																				
				10.8	.50	10.5	.50																			
245WX6B	3/4 31 lbs.	1009	6471	2337		2137		1898																		
				14.5	.73	14.4	.76	14.1	.77																	
245WX7B	1 36 lbs.	1113	7138	2730		2555		2374		2164		1887														
				17.6	.94	17.6	.98	17.6	1.02	17.3	1.03	17.1	1.01													
245WX8B	1-1/2 38 lbs.	1195	7664	3038		2866		2705		2534		2338		2099												
				20	1.14	19.7	1.18	20	1.23	19.9	1.26	19.7	1.28	19.5	1.26											
	1278	8197		3348		3178		3023		2872		2711		2530		2320										
				22	1.37	22	1.41	22	1.46	22	1.51	22	1.55	21	1.56	21	1.56									
245WX9B	2 50 lbs.	1343	8614	3586		3422		3267		3123		2978		2822		2647										
				24	1.56	23	1.61	23	1.66	23	1.71	23	1.76	23	1.80	23	1.82									
	1408	9031		3820		3665		3511		3369		3233		3093		2941		2585								
				25	1.78	25	1.83	25	1.88	24	1.94	24	1.99	24	2.04	24	2.08	24	2.08							
245WX10B	3 74 lbs.	1477	9473	4063		3920		3771		3628		3495		3365		3231		2928		2530						
					27	2.03	27	2.09	27	2.14	26	2.20	26	2.25	26	2.31	26	2.36	26	2.42	25	2.38				
		1546	9916		4302		4170		4029		3888		3755		3629		3505		3237		2923					
					29	2.30	29	2.37	29	2.43	28	2.48	28	2.54	28	2.60	28	2.66	27	2.75	27	2.77				
		1616	10365		4540		4419		4287		4150		4018		3894		3774		3531		3258		2931			
				31	2.59	31	2.67	31	2.74	31	2.80	30	2.85	30	2.92	30	2.98	30	3.09	29	3.16	29	3.15			

Description: Fan shall be a spun aluminum, roof mounted, direct driven, upblast centrifugal exhaust ventilator.

Certifications: Fan shall be manufactured at an ISO 9001 certified facility. Fan shall be listed by Underwriters Laboratories (UL 762) and UL listed for Canada (Power Ventilator for Restaurant Exhaust Appliances). Fan shall bear the AMCA Certified Ratings Seal for Sound and Air Performance.

Construction: Fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The spun aluminum structural components shall be constructed of minimum 16 gauge marine alloy aluminum, bolted to a rigid aluminum support structure. The aluminum base shall have a one piece inlet spinning and continuously welded curb cap corners for maximum leak protection. The windband shall have a rolled bead for added strength. A two piece top cap shall have stainless steel quick release latches to provide access into the motor compartment without the use of tools. An external wiring compartment with integral conduit chase shall be provided into the motor compartment to facilitate wiring connections. The motor shall be enclosed in a weather-tight compartment, separated from the exhaust airstream. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM and static pressure. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel: Wheel shall be centrifugal backward inclined, constructed of 100 percent aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

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

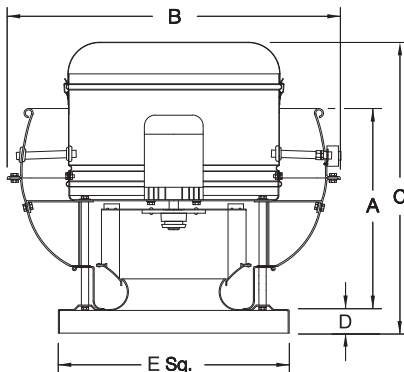
Motor EC: Motor shall be an electronically commutated motor rated for continuous duty and furnished either with internally mounted potentiometer speed controller or with leads for connection to 0-10 VDC external controller.

Product: Fan shall be model VCRD, VCRD-HP or VCRD-XP as manufactured by LOREN COOK COMPANY of Springfield, Missouri.

Dimensions

Size	A	B	C			D	E Sq.	Roof Opening Square*	Ship. Wt.
			VCRD	VCRD-HP	VCRD-XP				
101	12-1/2	25-1/4	20-3/16	-	-	2	18	13-1/2	30
120	19-1/16	30-3/16	28-1/4	-	-	2	20	15-1/2	61
135	19-1/16	30-3/16	28-5/8	-	-	2	20	15-1/2	66
150	20-15/16	34-11/16	30-1/4	27-1/2	-	2	24	19-1/2	77
165	20-15/16	34-11/16	30-3/4	27-3/4	26-11/16	2	24	19-1/2	83
180	24-13/16	39-7/16	35-7/8	33-3/8	31-9/16	3	30	25-1/2	100
195	24-13/16	39-7/16	-	33-1/2	32-1/8	3	30	25-1/2	110

All dimensions in inches. *Roof opening size for curbs supplied by LOREN COOK COMPANY only. Weights in pounds, less motor.



Upblast Centrifugal Restaurant Exhaust Ventilator Roof Mounted Direct Drive



LOREN COOK COMPANY certifies that the VCRD, VCRD-EC, VCRD-HP, VCRD-XP, VCRDEC-HP, VCRDEC-XP 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 VCRD, VCRD-EC, VCRD-HP, VCRD-XP, VCRDEC-HP, VCRDEC-XP are furnished standard with UL 762 and cUL 762 listings (Power Ventilator for Restaurant Exhaust Appliances/ YZHW) when furnished with factory supplied motor.

VCRD Performance Data

100-180 VCRD

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	Max. Watts	CFM at Static Pressure																					
					0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
					Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
101V10D	1/25	1050	2749	-	585		504		399																	
					4.7	.03	4.6	.03	4.2	.04																
101V11D	1/4	1140	2985	-	635		560		479																	
					5.8	.04	5.7	.04	5.3	.05																
101V15D	1/8	1550	4058	-	864		808		754		697		628		484											
					9.9	.10	9.8	.10	9.7	.11	9.4	.11	9.0	.12	8.6	.11										
101V17D	1/6	1725	4516	-	961		911		862		813		760		695		569									
					11.5	.14	11.5	.14	11.4	.15	11.3	.15	10.9	.15	10.5	.16	10.2	.15								
120V10D	1/6	1075	3376	-	1095		998		892		779															
					7.6	.08	7.6	.09	7.1	.09	6.5	.09														
120V11D	1/6	1140	3581	-	1161		1070		971		868		733													
					8.7	.09	8.7	.10	8.3	.11	7.7	.11	7.1	.11												
120V13D	1/4*	1300	4084	-	1324		1244		1161		1072		981		867											
					11.4	.14	11.4	.15	11.1	.16	10.6	.16	10.0	.16	9.4	.16										
120V15D	1/4*	1550	4869	-	1579		1512		1444		1372		1298		1223		1143		1047		872					
					14.9	.24	14.9	.25	14.9	.26	14.5	.26	14.2	.27	13.9	.27	13.5	.28	13.2	.28	13.0	.27				
120V17D	1/3	1725	5417	-	1757		1697		1637		1574		1509		1442		1374		1304		1227		946			
					17.6	.33	17.6	.34	17.6	.35	17.4	.36	17.1	.37	16.7	.37	16.4	.37	16.1	.38	15.8	.38	15.2	.36		
135V10D	1/6	1075	3795	-	1656		1550		1441		1324		1177													
					9.6	.14	9.6	.15	9.2	.16	8.6	.16	8.0	.16												
135V11D	1/6	1140	4029	-	1756		1657		1555		1447		1325		1140		1325									
					11.2	.16	11.2	.18	10.9	.18	10.3	.19	9.7	.19	9.1	.19	9.7	.19								
135V13D	1/2*	1300	4595	-	2002		1915		1827		1736		1640		1535		1640		1152							
					14.6	.24	14.6	.26	14.5	.27	14.0	.28	13.5	.28	12.8	.28	13.5	.28	11.8	.27						
135V15D	1/2*	1550	5478	-	2387		2315		2241		2167		2091		2012		2091		1841		1736		1358			
					19.0	.41	19.0	.43	19.0	.44	18.8	.46	18.4	.47	18.1	.47	18.4	.47	17.5	.48	17.1	.48	16.5	.45		
135V17D	3/4	1725	6089	-	2657		2592		2526		2459		2392		2323		2253		2180		2103		1614			
					23	.56	23	.58	23	.60	23	.62	23	.63	23	.64	22	.65	22	.65	22	.66	21	.67	21	.64
150R10D	1/3	1075	4225	-	2272		2154		2035		1910		1775		1601		1258									
					12.1	.23	12.1	.25	11.9	.26	11.4	.27	10.8	.27	10.2	.27	9.6	.25								
150R11D	1/3	1140	4477	-	2409		2298		2186		2071		1948		1808		1948									
					13.9	.27	13.9	.29	13.7	.31	13.3	.32	12.7	.32	12.1	.32	12.7	.32								
150R13D	3/4*	1300	5105	-	2747		2650		2553		2453		2351		2244		2351		1989		1791					
					18.0	.41	18.0	.43	18.0	.45	17.6	.46	17.2	.47	16.6	.47	17.2	.47	15.6	.48	15.1	.48				
150R15D	3/4*	1550	6087	-	3275		3194		3113		3030		2947		2862		2947		2685		2590		2365			
					24	.69	24	.72	24	.74	24	.76	23	.78	23	.79	23	.78	22	.80	22	.81	21	.82	21	.79
165R10D	1/3	1075	4644	-	2925		2728		2543		2359		2156		1981		1696									
					14.9	.37	14.9	.38	14.8	.39	14.4	.39	13.8	.39	13.3	.39	12.8	.39								
165R11D	3/4	1140	4924	-	3194		3041		2894		2753		2602		2428		2602		2050							
					16.9	.48	16.9	.50	16.9	.52	16.4	.54	16.0	.55	15.4	.55	16.0	.55	14.4	.55						
180R10D	3/4	1075	5066	-	4065		3936		3805		3667		3518		3344		3518		2899		2646					
					16.4	.61	16.4	.63	16.3	.65	15.6	.67	14.9	.69	14.4	.70	14.9	.69	13.6	.70	13.2	.69				
180R11D	3/4	1140	5369	-	4310		4189		4066		3939		3803		3653		3474		3261		3047					
					17.9	.73	17.9	.75	17.9	.77	17.2	.79	16.5	.81	15.9	.83	15.5	.84	15.2	.84	14.8	.83				

Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free Inlet hemispherical sone levels. *Motor is a 2-speed 1300/1550 RPM motor.

150-195 VCRD-HP

Cat. No.	Mtr. HP	Fan RPM	Tip Speed	0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
150VH10D	1/6	1075	4222	988		913		817		711		579													
				6.4	.12	6.5	.12	6.5	.13	6.4	.13	5.9	.13												
150VH11D	1/4	1140	4477	1055		987		904		804		696		566											
				7.2	.14	7.2	.15	7.3	.15	7.3	.15	6.9	.15	6.4	.15										
150VH13D	1/3*	1300	5105	1220		1163		1099		1022		934		846		736		623							
				9.2	.2	9.2	.21	9.1	.22	9.3	.23	9.5	.23	9.1	.23	8.6	.23	8.1	.22						
150VH15D	1/3*	1550	6087	1475		1428		1379		1326		1266		1196		1122		1049		872		668			
				12.4	.34	12.4	.35	12.3	.36	12.2	.37	12.3	.38	12.4	.38	12.4	.39	12.3	.39	11.4	.38	10.6	.36		
150VH17D	1/2	1725	6774	1651		1609		1566		1521		1473		1420		1359		1293		1161		1005		834	
				14.8	.47	14.8	.48	14.8	.49	14.8	.5	14.7	.51	14.7	.52	14.6	.53	14.6	.53	14.4	.53	13.7	.53	13.1	.51
165VH10D	1/3	1075	4644	1830		1742		1633		1514		1375		1175											
				8.9	.22	8.7	.23	8.5	.24	8.3	.25	8.1	.25	8.1	.25										
165VH11D	1/3	1140	4924	1950		1869		1772		1662		1546		1393		1194									
				9.9	.26	9.7	.27	9.5	.28	9.3	.29	9.1	.3	9.0	.3	9.0	.29								
165VH13D	3/4*	1300	5616	2244		2176		2100		2012		1915		1816		1704		1556							
				12.6	.38	12.6	.39	12.3	.41	11.9	.42	11.6	.43	11.6	.44	11.4	.44	11.5	.44						
165VH15D	1/3*	1550	6696	2699		2643		2585		2522		2451		2373		2292		2210		2027		1765		1428	
				16.5	.63	16.5	.65	16.5	.67	16.2	.69	15.9	.7	15.6	.72	15.4	.73	15.1	.74	14.8	.75	14.8	.74	15.0	.72
165VH17D	1	1725	7417	3015		2966		2915		2862		2804		2741		2672		2600		2452		2292		2076	
				19.6	.86	19.6	.88	19.6	.90	19.5	.93	19.2	.95	19.0	.97	18.7	.99	18.5	1.00	18.0	1.02	17.7	1.03	17.5	1.03
180VH11D	1/2	1140	5372	2864		2762		2655		2537		2407		2261		2109		1944							
				13.7	.43	13.7	.44	13.5	.46	13.2	.47	12.7	.48	12.2	.49	11.6	.5	11.1	.51						
195VH10D	3/4	1075	5488	3522		3402		3274		3127		2964		2791		2604		2392							
				14.7	.57	14.7	.6	14.3	.62	13.9	.63	13.3	.65	12.6	.66	11.9	.67	11.2	.67						
195VH11D	3/4	1140	5820	3748		3637		3519		3388		3240		3083		2917		2738		2296					
				16.4	.67	16.4	.7	16.2	.73	15.7	.75	15.3	.76	14.4	.77	13.8	.79	13.1	.8	11.9	.79				

165-195 VCRD-XP

Cat. No.	Mtr. HP	Fan RPM	Tip Speed	0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
165VX10D	1/6	1075	4644	884		833		784		718		648		550											
				7.4	.1	7.1	.1	6.8	.11	6.5	.12	6.3	.12	6.1	.12										
165VX11D	1/4	1140	4924	945		895		850		795		728		662		547									
				8.2	.11	7.9	.12	7.7	.13	7.4	.14	7.1	.14	6.9	.15	6.7	.15								
165VX13D	1/3*	1300	5616	1093		1045		1005		965		918		859		802		741		512					
				10.3	.16	10.1	.17	9.9	.18	9.6	.19	9.4	.2	9.1	.21	8.8	.21	8.7	.22	8.4	.21				
165VX15D	1/3*	1550	6696	1321		1278		1241		1207		1174		1139		1099		1051		954		839		635	
				13.9	.27	13.8	.28	13.6	.3	13.4	.31	13.2	.32	12.9	.33	12.7	.34	12.5	.35	12.0	.36	11.7	.37	11.4	.36
165VX17D	1/2	1725	7451	1480		1441		1404		1372		1342		1312		1282		1248		1166		1078		988	
				16.3	.37	16.1	.39	16.0	.4	15.8	.41	15.7	.43	15.5	.44	15.3	.45	15.0	.46	14.6	.48	14.2	.49	13.9	.51
180VX10D	1/3	1075	5066	1160		1102		1041		984		930		857		741		614							
				8.7	.14	8.4	.15	8.0	.16	7.8	.17	7.6	.17	7.6	.18	7.6	.19	7.7	.19						
180VX11D	1/4	1140	5372	1236		1182		1125		1069		1018		964		884		773							
				9.6	.16	9.3	.17	9.0	.19	8.7	.19	8.5	.2	8.4	.21	8.4	.22	8.5	.23						
180VX13D	1/2*	1300	6126	1423		1377		1329		1278		1229		1183		1139		1089		918		698			
				12.3	.24	12.0	.25	11.7	.26	11.3	.28	11.1	.29	10.9	.3	10.8	.31	10.7	.32	10.7	.34	11.0	.32		
180VX15D	1/2*	1550	7304	1713		1675		1636		1595		1553		1511		1470		1430		1356		1266		1112	
				16.9	.39	16.5	.41	16.2	.43	15.8	.44	15.5	.46	15.2	.47	15.0	.49	14.9	.5	14.7	.52	14.5	.54	14.6	.57
180VX17D	3/4	1725	8129	1914		1880		1846		1810		1774		1736		1698		1660		1589		1522		1448	
				19.7	.54	19.4	.55	19.1	.57	18.8	.59	18.5	.61	18.2	.63	18.1	.64	17.9	.66	17.7	.69	17.6	.71	17.4	.74
195VX10D	1/3	1075	5488	1497		1429		1362		1296		1226		1150		1066		961							
				9.5	.21	9.1	.22	8.7	.23	8.3	.25	8.0	.26	7.8	.27	7.5	.28	7.2	.28						
195VX11D	1/3	1140	5820	1596		1531		1468		1406		1342		1274		1200		1119		883					
				10.6	.24	10.2	.26	9.7	.27	9.4	.29	9.1	.3	8.8	.31	8.5	.32	8.3	.33	7.7	.33				
195VX13D	3/4*	1300	6637	1837		1780		1723		1669		1614		1559		1501		1440		1307		1129			
				13.7	.35	13.2	.37	12.8	.39	12.3	.41	11.9	.42	11.6	.44	11.3	.45	11.1	.46	10.7	.48	10.1	.5		
195VX15D	1/3*	1550	7913	2210		2162		2114		2067		2021		1975		1929		1883		1787		1684		1571	
				18.8	.59	18.3	.61	17.8	.64	17.4	.66	17.0	.68	16.6	.7	16.2	.72	15.9	.74	15.3	.77	15.0	.79	14.7	.82

Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). Speed (RPM) shown for model 165V10D is nominal. Performance is based on actual speed of test. Speed (RPM) for all other models is constant and based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free Inlet hemispherical sone levels. *Motor is a 2-speed 1300/1550 RPM motor.

VCRD-EC Specifications and Dimensions

Catalog Number	HP	Fan RPM	Tip Speed	Max Watts	CFM at Static Pressure																							
					0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP			
					Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts		
101V17DEC	1/4	468	1225	6	260																							
					0.2	6																						
		887	2322	23	494		392																					
					2.9	21	2.7	23																				
		1306	3419	61	727		653		589		512		359															
120V17DEC	1/2				7.7	54	7.6	56	7.4	59	6.9	61	6.5	55														
		1725	4516	131	960		902		850		803		750		690		626		465									
					11.5	114	11.5	117	11.4	121	11.3	124	10.9	128	10.5	131	10.2	129	9.9	116								
		471	1479	12	484																							
					0.8	12																						
135V17DEC	3/4	889	2792	55	914		795		651																			
					4.9	50	4.8	54	4.1	55																		
		1307	4106	156	1343		1264		1182		1093		992		879													
					11.5	141	11.5	146	11.2	152	10.7	155	10.1	156	9.5	155												
		1725	5419	346	1773		1713		1652		1591		1527		1459		1386		1307		1224							
135V17DEC	3/4				17.6	311	17.6	318	17.6	326	17.4	332	17.1	339	16.7	343	16.4	346	16.1	346	15.8	344						
		561	1982	31	845		607																					
					2.3	29	1.9	31																				
		949	3354	118	1429		1303		1165		1006																	
					7.4	106	7.4	112	6.9	117	6.3	118																
135V17DEC	3/4	1337	4725	311	2014		1925		1835		1740		1638		1526		1412		1284									
					15.1	276	15.1	285	15.1	294	14.7	301	14.2	307	13.5	309	13.1	311	12.7	309								
		1725	6096	653	2598		2529		2460		2390		2319		2245		2167		2085		1998		1820		1606			
					22	578	22	590	22	602	22	613	22	623	22	632	21	640	21	646	21	649	20	653	19.5	644		

Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free Inlet hemispherical sone levels.

150 VCRDEC-HP

Catalog Number	HP	Fan RPM	Tip Speed	Max Watts	CFM at Static Pressure																							
					0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP			
					Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts
150VH17DEC	1/2	543	2132	20	523		355																					
					1.4	17	1.4	20																				
		937	3679	78	903		819		724		610		471															
					5.0	65	5.0	71	5.0	76	4.8	78	4.4	77														
		1331	5226	209	1282		1224		1164		1101		1032		953		871		783		677							
					9.6	171	9.6	179	9.6	186	9.5	195	9.7	201	9.8	205	9.7	208	9.1	209	8.7	206						
		1725	6774	443	1662		1617		1572		1525		1478		1429		1377		1321		1260		1134		996			
					14.8	360	14.8	370	14.8	380	14.8	390	14.8	401	14.7	411	14.7	421	14.6	428	14.6	433	14.4	441	13.7	443		

165-180 VCRDEC-XP

Catalog Number	HP	Fan RPM	Tip Speed	Max Watts	CFM at Static Pressure																					
					0.00" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
					Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts	Sone	Watts
165VX17DEC	1/2	528	2280	20	465		350																			
					2.0	17	1.4	20																		
		927	4004	92	816		756		692		621		548		451											
					6.1	66	5.7	73	5.3	80	5.0	86	4.8	92	4.6	90										
		1326	5727	251	1167		1125		1083		1039		993		946		896		845		793		664			
					10.9	176	10.7	186	10.5	197	10.3	207	10.1	217	9.8	226	9.5	234	9.2	242	9.0	251	8.7	250		
		1725	7451	522	1518		1486		1454		1421		1388		1354		1320		1284		1248		1171		1093	
					16.4	376	16.3	389	16.1	402	16.0	416	15.8	429	15.7	443	15.5	456	15.3	469	15.0	481	14.6	501	14.2	522
180VX17DEC	3/4	555	2615	37	639		524		385																	
					2.6	28	2.1	34	1.8	37																
		945	4453	149	1089		1022		954		886		819		736		636		534							
					7.4	107	7.0	116	6.6	125	6.3	133	6.1	139	6.0	146	6.1	149	6.2	148						
		1335	6291	400	1538		1491		1443		1395		1347		1298		1251		1205		1157		1038		897	
					13.3	280	13.0	293	12.6	307	12.3	320	12.0	332	11.6	344	11.4	354	11.3	364	11.2	372	11.1	390	11.5	400
		1725	8128	774	1987		1950		1914		1877		1840		1803		1766		1728		1691		1617		1545	
					20	589	19.7	607	19.4	624	19.1	641	18.8	658	18.5	675	18.2	691	18.1	707	17.9	722	17.7	750	17.6	774

Performance certified is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free Inlet hemispherical sone levels.

VCR/VCR-HP/VCR-XP Specifications and Dimensions

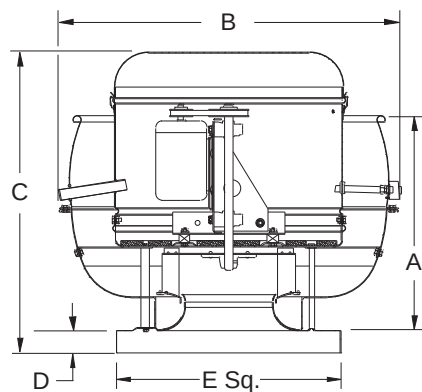
Upblast Centrifugal Restaurant Exhaust Ventilator Roof Mounted Belt Drive



LOREN COOK COMPANY certifies that the VCR, VCR-HP and VCR-XP 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 VCR, VCR-HP, VCR-XP are furnished standard with UL 762 and cUL 762 listings (Power Ventilator for Restaurant Exhaust Appliances/ YZHW) when furnished with factory supplied motor.



Description: Fan shall be a spun aluminum, roof mounted, belt driven, upblast centrifugal exhaust ventilator.

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

Construction: Fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The spun aluminum structural components shall be constructed of minimum 16 gauge marine alloy aluminum, bolted to a rigid aluminum support structure. The aluminum base shall have a one piece inlet spinning and continuously welded curb cap corners for maximum leak protection. The windband shall have a rolled bead for added strength. A two piece top cap shall have stainless steel quick release latches to provide access into the motor compartment without the use of tools. An external wiring compartment with integral conduit chase shall be provided into the motor compartment to facilitate wiring connections. The motor, bearings and drives shall be mounted on a minimum 14 gauge steel power assembly, isolated from the unit structure with solid vibration isolators. These components shall be enclosed in a weather-tight compartment, separated from the exhaust airstream. A one-inch thick, three pound density foil back heat shield shall be utilized to protect the motor and drive components from excessive heat. Lifting lugs shall be provided to help prevent damage from improper lifting. 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.

Wheel: Wheel shall be centrifugal backward inclined, constructed of 100 percent aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

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

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

Belts and Drives: Belts shall be oil and heat resistant, static conducting. Drives shall be precision machined cast iron type, keyed and securely attached to the wheel and motor shafts. Drives shall be sized for 150 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 VCR, VCR-HP or VCR-XP as manufactured by LOREN COOK COMPANY of Springfield, Missouri.

VCR / VCR-HP / VCR-XP Dimensions

Size	A	B	C			D	E Sq.	Roof Opening Square*	Ship. Wt.
			VCR	VCR-HP	VCR-XP				
100	12-1/2	25-1/4	20-3/16	-	-	2	18	13-1/2	30
120	19-1/16	30-3/16	28-1/4	-	-	2	20	15-1/2	61
135	19-1/16	30-3/16	28-5/8	-	-	2	20	15-1/2	66
150	20-15/16	34-11/16	30-1/4	27-1/2	-	2	24	19-1/2	77
165	20-15/16	34-11/16	30-3/4	27-3/4	26-11/16	2	24	19-1/2	83
180	24-13/16	39-7/16	35-7/8	33-3/8	31-9/16	3	30	25-1/2	100
195	24-13/16	39-7/16	36-3/8	33-1/2	32-1/8	3	30	25-1/2	110
210	25-15/16	45-1/4	38-3/8	35-3/8	32-3/4	3	30	25-1/2	220
225	25-15/16	45-1/4	38-1/8	35-1/2	33-5/16	3	30	25-1/2	242
245	28-1/2	49-1/4	41-1/16	37-5/16	34-1/16	3	30	25-1/2	264
270	28-1/2	49-1/4	41-1/16	37-5/16	35	3	36	31-1/2	286
300	33-7/8	54-1/4	49-15/16	45-15/16	41-7/16	3	36	31-1/2	336
330	34-1/8	54-1/4	50-7/16	46-11/16	43-1/8	3	42	37-1/2	374
365	36-3/8	64-1/4	52-7/16	48-7/16	44-1/4	3	42	37-1/2	420
402	37-7/8	64-1/4	54-11/16	-	-	3	48	43-1/2	484
445	31-5/8	76-1/4	57-3/16	-	-	3	54	49-1/2	556
490	33-3/8	76-1/4	58-1/16	-	-	3	54	49-1/2	715

All dimensions in inches. *Roof opening size for curbs supplied by LOREN COOK COMPANY only. Weights in pounds, less motor.

100 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP		
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone
100V2B	1/6*	15 lbs.	740	1937	412		279																			
					1.7	.01	1.6	.01																		
			940	2460	524		433																			
					3.5	.02	3.3	.02																		
			1140	2984	635		560		479																	
					5.8	.04	5.7	.04	5.3	.05																
			1340	3508	747		683		619		542															
					8.0	.06	7.9	.07	7.7	.07	7.3	.07														
1540	4031	858		802		747		690		619		469														
		9.8	.10	9.7	.10	9.6	.11	9.3	.11	8.9	.11	8.5	.10													
		970		921		872		824		772		709		592												
100V3B	1/4*	15 lbs.	1807	4730	1007		959		912		865		817		761		678		531							
					12.4	.16	12.3	.16	12.3	.17	12.2	.17	11.9	.18	11.5	.18	11.2	.18	10.9	.16						
			1872	4900	1043		997		951		906		860		810		745		626							
					13.1	.17	13.1	.18	13.0	.19	12.9	.19	12.7	.19	12.4	.20	12.1	.20	11.8	.19						
			1937	5071	1079		1035		991		947		903		856		801		714		576					
					14.1	.19	14.0	.20	13.9	.21	13.8	.21	13.6	.21	13.2	.22	13.0	.22	12.77	.22	12.4	.20				
			2002	5241	1115		1072		1030		988		945		901		851		786		671					
					15.2	.21	15.1	.22	15.0	.23	14.9	.23	14.8	.24	14.4	.24	14.0	.25	13.6	.25	13.3	.24				

*1/6 & 1/4 HP motor available only in single phase ODP type.

120 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP			
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
120V2B	1/6 15 lbs.	904	2840	921		803		673																			
				5.2	.05	5.0	.05	4.4	.05																		
		1037	3257	1056		955		845		722																	
				7.0	.07	7.0	.08	6.5	.08	5.9	.08																
		1170	3675	1192		1103		1008		908		788															
				9.2	.10	9.2	.11	8.9	.11	8.2	.12	7.6	.12														
1302	4090	1326		1247		1163		1075		983		871															
		11.4	.14	11.4	.15	11.1	.16	10.7	.16	10.0	.16	9.4	.16														
120V3B	1/4 15 lbs.	1367	4294	1393		1317		1238		1154		1069		975		832											
				12.2	.16	12.2	.17	12.0	.18	11.7	.18	11.0	.19	10.4	.19	10.0	.19										
		1432	4498	1459		1386		1312		1233		1152		1067		964		747									
				13.1	.19	13.1	.20	12.9	.21	12.6	.21	12.0	.21	11.6	.22	11.3	.22	10.9	.20								
		1496	4699	1524		1455		1384		1309		1232		1153		1066		944									
				14.0	.21	14.0	.22	13.9	.23	13.6	.24	13.2	.24	12.8	.25	12.5	.25	12.2	.25								
120V4B	1/3 19 lbs.	1549	4866	1578		1511		1443		1371		1297		1222		1142		1045		869							
				14.9	.24	14.9	.25	14.9	.26	14.5	.26	14.2	.27	13.8	.27	13.5	.27	13.2	.28	12.9	.26						
		1602	5032	1632		1567		1502		1433		1361		1289		1214		1130		1015							
				15.8	.26	15.8	.27	15.8	.28	15.5	.29	15.1	.30	14.8	.30	14.5	.30	14.2	.30	13.9	.30						
		1655	5199	1686		1623		1560		1494		1425		1355		1284		1208		1116							
				16.6	.29	16.6	.30	16.6	.31	16.3	.32	16.0	.32	15.6	.33	15.3	.33	15.0	.34	14.7	.34						

135 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP		
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone
135V2B	1/6 15 lbs.	837	2958	1289		1152		1001		676																
				5.7	.06	5.6	.07	5.0	.08	4.4	.07															
		957	3382	1474		1355		1230		1081																
				7.6	.10	7.5	.11	7.1	.11	6.5	.11															
135V3B	1/4 15 lbs.	1078	3809	1660		1555		1447		1330		1184														
				9.8	.14	9.8	.15	9.5	.16	8.9	.16	8.3	.16													
		1132	4000	1744		1643		1541		1432		1308		1113												
				11.0	.16	11.0	.17	10.7	.18	10.1	.18	9.5	.19	8.9	.19											
135V4B	1/3 19 lbs.	1186	4191	1827		1731		1634		1532		1420		1275		971										
				12.2	.18	12.2	.20	12.0	.21	11.5	.21	10.8	.22	10.2	.22	9.7	.20									
		1240	4382	1910		1819		1726		1629		1527		1406		1219										
				13.5	.21	13.5	.22	13.3	.23	12.9	.24	12.2	.24	11.6	.25	11.0	.24									
135V5B	1/2 23 lbs.	1306	4615	2012		1925		1837		1747		1652		1548		1415		1182								
				14.7	.24	14.7	.26	14.6	.27	14.1	.28	13.6	.28	12.9	.29	12.4	.29	12.0	.28							
		1371	4845	2112		2029		1946		1860		1772		1677		1569		1419		1130						
				15.7	.28	15.7	.30	15.7	.31	15.3	.32	14.9	.33	14.2	.33	13.8	.33	13.5	.33	13.1	.30					
135V5B	1/2 23 lbs.	1473	5206	2269		2192		2115		2036		1955		1871		1781		1677		1538						
				17.4	.35	17.4	.37	17.4	.38	17.1	.40	16.8	.40	16.5	.41	16.1	.41	15.7	.41	15.4	.42					
		1574	5562	2424		2353		2280		2207		2132		2055		1975		1889		1791		1470				
				19.5	.43	19.5	.45	19.5	.46	19.3	.48	19.0	.49	18.7	.49	18.3	.50	18.0	.50	17.7	.51	17.1	.49			

VCR/VCR-HP Performance Data

150 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
150V2B	1/6 15 lbs.	760	2984	1606		1439		1254		889															
				6.0	.08	5.9	.09	5.3	.10	4.7	.09														
		832	3267	1758		1606		1444		1238															
				7.1	.11	7.0	.12	6.6	.12	5.9	.13														
150V3B	1/4 15 lbs.	904	3550	1910		1770		1625		1462		1193													
				8.4	.14	8.4	.15	8.0	.16	7.4	.16	6.8	.16												
		972	3817	2054		1924		1790		1647		1468													
				9.7	.17	9.7	.19	9.4	.20	8.9	.20	8.3	.20												
150V4B	1/3 19 lbs.	1040	4084	2198		2076		1952		1822		1677		1469											
				11.3	.21	11.3	.22	11.1	.24	10.5	.24	9.9	.25	9.4	.25										
		1149	4512	2428		2318		2207		2093		1971		1835		1648									
				14.1	.28	14.1	.30	14.0	.31	13.6	.32	13.0	.33	12.4	.33	11.8	.33								
150V5B	1/2 23 lbs.	1235	4849	2610		2508		2405		2299		2190		2074		1940		1756							
				16.6	.35	16.6	.37	16.5	.39	16.1	.40	15.7	.40	15.0	.41	14.4	.41	13.8	.41						
		1320	5183	2789		2694		2598		2500		2400		2295		2183		2052		1877					
				18.4	.43	18.4	.45	18.4	.47	18.0	.48	17.6	.49	17.1	.50	16.5	.50	16.0	.51	15.7	.51				
150V6B	3/4 31 lbs.	1420	5576	3001		2912		2823		2733		2641		2546		2447		2342		2221		1834			
				20	.53	20	.55	20	.58	20	.59	19.8	.61	19.4	.61	19.0	.62	18.6	.62	18.3	.63	17.6	.61		
		1519	5965	3210		3127		3044		2960		2875		2788		2698		2605		2506		2260			
				23	.65	23	.67	23	.70	23	.72	22	.73	22	.75	22	.75	21	.76	21	.76	20	.77		

150 VCR-HP

Catalog Number	Mtr. HP/Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
150VH2B	1/6 15 lbs.	881	3459	672		536		339																	
				4.4	.07	4.1	.07	3.7	.06																
		1162	4563	1012		932		835		606															
				7.4	.15	7.5	.16	7.6	.16	6.8	.16														
150VH3B	1/4 15 lbs.	1249	4904	1108		1039		954		763		491													
				8.5	.19	8.6	.20	8.7	.20	8.2	.20	7.3	.18												
		1336	5246	1202		1141		1069		899		689													
				9.6	.23	9.6	.24	9.8	.24	9.8	.25	8.7	.24												
150VH4B	1/3 19 lbs.	1407	5525	1277		1221		1158		1000		818		587											
				10.6	.26	10.4	.27	10.6	.28	10.9	.29	10.0	.29	9.1	.27										
		1478	5804	1352		1300		1242		1098		940		743											
				11.4	.30	11.3	.31	11.3	.32	11.6	.34	11.1	.33	10.2	.33										
150VH5B	1/2 23 lbs.	1587	6232	1466		1419		1368		1245		1102		940		753									
				12.9	.37	12.8	.38	12.8	.39	12.8	.41	12.9	.42	12.0	.41	11.3	.40								
		1696	6660	1579		1536		1489		1384		1253		1118		952		775							
				14.4	.45	14.4	.46	14.3	.47	14.3	.49	14.2	.51	13.9	.50	13.2	.50	12.6	.48						
150VH6B	3/4 31 lbs.	1824	7162	1711		1671		1629		1538		1427		1301		1174		1014		852					
				16.2	.56	16.2	.57	16.2	.58	16.2	.60	16.2	.62	16.1	.63	15.6	.63	15.1	.62	14.7	.60				
		1952	7665	1842		1805		1766		1685		1591		1477		1361		1239		1087		938			
				18.5	.68	18.5	.69	18.5	.71	18.4	.73	18.3	.75	18.3	.77	18.3	.77	17.8	.77	17.4	.76	17.1	.74		

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

165 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
165V2B	1/6 15 lbs.	686	2963	1929		1725		1500		1024															
				6.3	.10	6.2	.11	5.5	.11	4.8	.10														
		771	3330	2168		1988		1797		1564															
165V3B	1/4 15 lbs.	829	3581	2331		2164		1990		1796		1492													
				8.7	.17	8.7	.19	8.3	.20	7.7	.20	7.1	.20												
		887	3831	2494		2338		2177		2004		1792		1337											
165V4B	1/3 19 lbs.	933	4030	2624		2475		2323		2163		1981		1706											
				11.1	.24	11.1	.26	10.8	.28	10.3	.28	9.7	.29	9.1	.29										
		980	4233	2756		2615		2471		2320		2157		1950		1550									
165V5B	1/2 23 lbs.	1052	4544	2958		2827		2694		2556		2411		2249		2033		1608							
				14.3	.35	14.3	.37	14.1	.39	13.7	.40	13.2	.41	12.6	.41	12.1	.41	11.6	.38						
		1125	4859	3164		3041		2917		2790		2657		2517		2356		2138		1723					
165V6B	3/4 31 lbs.	1210	5226	3403		3289		3174		3057		2936		2811		2677		2525		2323					
				19.2	.53	19.2	.56	19.2	.58	18.8	.60	18.5	.61	17.9	.62	17.2	.62	16.6	.63	16.2	.63				
		1295	5594	3642		3535		3428		3319		3208		3094		2975		2848		2705		2251			
				22	.65	22	.68	22	.70	21	.72	21	.74	21	.75	20	.76	19.4	.76	18.9	.77	18.1	.75		

165 VCR-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
165VH2B	1/6 15 lbs.	932	4025	1450		1314		1141																	
				6.7	.16	6.5	.16	6.2	.16																
165VH3B	1/4 15 lbs.	1072	4630	1736		1626		1507		1165															
				8.7	.23	8.4	.24	8.3	.25	8.0	.24														
165VH4B	1/3 19 lbs.	1128	4872	1846		1747		1635		1355															
				9.5	.26	9.3	.28	9.1	.29	8.8	.29														
		1185	5118	1957		1866		1762		1527		1142													
165VH5B	1/2 23 lbs.	1273	5498	2125		2046		1954		1752		1466													
				12.1	.37	11.8	.39	11.5	.40	11.1	.41	11.2	.41												
		1361	5879	2291		2221		2140		1956		1742		1421											
165VH6B	3/4 31 lbs.	1463	6319	2482		2419		2349		2184		2007		1771		1448									
				15.1	.55	14.9	.57	14.7	.59	14.1	.61	13.7	.63	13.7	.63	13.8	.61								
		1566	6764	2673		2615		2553		2408		2246		2069		1819		1503							
165VH7B	1 36 lbs.	1646	7110	2820		2767		2709		2577		2426		2268		2074		1809		1467					
				18.2	.77	18.2	.79	18.0	.81	17.4	.85	16.9	.88	16.4	.90	16.2	.90	16.1	.88	16.2	.85				
		1727	7460	2969		2918		2865		2745		2604		2457		2297		2082		1817					
				19.6	.89	19.6	.91	19.5	.93	19.0	.97	18.5	1.01	18.1	1.03	17.8	1.04	17.6	1.03	17.4	1.02				

165 VCR-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
165VX3B	1/4 15 lbs.	1355	5853	814		637																			
				9.4	.24	9.1	.25																		
165VX4B	1/3 19 lbs.	1498	6470	988		889		728																	
				11.7	.32	11.3	.33	10.9	.33																
165VX5B	1/2 23 lbs.	1609	6950	1121		1025		931		766		519													
				13.3	.38	12.9	.40	12.5	.41	12.3	.41	12.0	.37												
		1720	7429	1243		1160		1072		981		818		614											
165VX6B	3/4 31 lbs.	1850	7991	1376		1310		1229		1148		1065		926		753									
				16.9	.56	16.5	.58	16.1	.59	15.7	.61	15.5	.62	15.3	.63	15.2	.61								
		1979	8548	1503		1448		1382		1304		1229		1152		1040		681							
165VX7B	1 36 lbs.	2081	8989	19.1	.67	18.6	.69	18.1	.71	17.8	.73	17.4	.74	17.2	.76	17.1	.77	16.9	.71						
				1601		1551		1495		1427		1352		1281		1207		947							
		2183	9129	21	.76	20	.79	20	.82	19.6	.84	19.1	.85	18.7	.87	18.6	.88	18.5	.89						
165VX8B	1-1/2 38 lbs.	2345	10129	1698		1651		1602		1544		1476		1405		1338		1170		876					
				23	.86	22	.90	22	.93	21	.95	21	.97	21	.99	20	1.00	20	1.04	19.9	.99				
		2507	10829	1851		1807		1764		1717		1663		1601		1534		1408		1238		964			
				26	1.05	25	1.09	25	1.12	25	1.15	24	1.18	24	1.20	23	1.22	23	1.25	22	1.29	22	1.24		
				2003		1961		1921		1880		1836		1786		1729		1606		1488		1324		1068	
				29	1.26	29	1.30	28	1.34	28	1.37	27	1.41	27	1.44	27	1.46	26	1.50	25	1.54	25	1.57	25	1.53

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

VCR/VCR-HP/VCR-XP Performance Data

180 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
180V2B	1/6 15 lbs.	635	2992	2446		2214		1945		1541															
				5.9	.14	5.6	.15	5.0	.16	4.5	.16														
180V3B	1/4 15 lbs.	730	3440	2812		2612		2395		2138		1751													
				7.6	.21	7.5	.23	6.9	.24	6.5	.25	6.0	.24												
180V4B	1/3 19 lbs.	807	3802	3109		2928		2738		2526		2272		1872											
				9.3	.29	9.3	.30	8.7	.32	8.2	.33	7.7	.33	7.3	.32										
180V5B	1/2 23 lbs.	927	4368	3571		3414		3253		3082		2893		2677		2401									
				12.2	.43	12.2	.45	11.8	.47	11.2	.49	10.7	.50	10.3	.51	9.9	.50								
180V6B	3/4 31 lbs.	1066	5023	4106		3970		3832		3690		3539		3376		3199		2997		2741					
				16.1	.66	16.1	.68	16.0	.71	15.3	.73	14.6	.74	14.2	.76	13.8	.77	13.4	.77	13.0	.76				
180V7B	1 36 lbs.	1176	5541	4530		4407		4283		4155		4023		3885		3738		3579		3405		2948			
				18.6	.89	18.6	.91	18.6	.94	18.1	.96	17.4	.98	16.7	1.00	16.3	1.01	15.9	1.02	15.5	1.03	14.8	1.02		
180V8B	1-1/2 38 lbs.	1264	5956	4869		4755		4639		4522		4402		4277		4146		4007		3860		3523		3029	
				21	1.10	21	1.13	21	1.16	20	1.18	19.7	1.20	19.0	1.23	18.4	1.24	18.0	1.26	17.6	1.27	16.9	1.28	16.3	1.25
				5204		5097		4989		4880		4769		4655		4536		4413		4283		3999		3658	
180V9B	2 50 lbs.	1419	6686	23	1.35	23	1.37	23	1.40	23	1.43	22	1.46	21	1.48	21	1.50	20	1.52	20	1.54	19.3	1.56	18.6	1.56
				5466		5364		5262		5158		5053		4946		4835		4721		4601		4345		4054	
				24	1.56	24	1.59	24	1.62	24	1.65	24	1.68	23	1.70	23	1.73	22	1.75	22	1.77	21	1.80	20	1.81
		1488	7012	5732		5635		5537		5439		5339		5238		5134		5027		4916		4681		4423	
				26	1.80	26	1.83	26	1.86	26	1.89	26	1.92	25	1.95	25	1.98	24	2.00	24	2.02	23	2.06	22	2.08

180 VCR-HP

Catalog Number	Mtr. HP/Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
180VH3B	1/4 15 lbs.	897	4227	2068		1910		1724																	
				8.8	.22	8.4	.23	7.9	.24																
180VH4B	1/3 19 lbs.	992	4674	2344		2212		2060		1704															
				10.6	.30	10.3	.31	9.9	.32	8.8	.33														
180VH5B	1/2 23 lbs.	1139	5367	2759		2652		2534		2258		1939													
				13.7	.44	13.5	.46	13.1	.47	12.2	.49	11.0	.51												
180VH6B	3/4 31 lbs.	1225	5772	2998		2900		2796		2557		2278													
				15.5	.55	15.4	.56	15.1	.58	14.3	.60	13.3	.62												
				3234		3144		3050		2839		2592		2323											
180VH7B	1 36 lbs.	1446	6814	17.6	.66	17.5	.68	17.2	.70	16.6	.72	15.6	.75	14.4	.77										
				3602		3521		3438		3260		3057		2827		2583									
180VH8B	1-1/2 38 lbs.	1553	7318	20	.88	20	.90	20	.92	19.5	.95	18.7	.98	17.8	1.01	16.8	1.03								
				3891		3817		3741		3580		3403		3204		2984		2756							
				22	1.08	22	1.11	22	1.13	22	1.17	21	1.19	20	1.22	19.5	1.26	18.7	1.28						
180VH9B	2 50 lbs.	1660	7822	4178		4109		4039		3893		3735		3561		3367		3159		2945		2674			
				25	1.32	25	1.34	25	1.37	24	1.41	24	1.44	23	1.47	22	1.51	22	1.54	21	1.57	20	1.56		
				4403		4338		4271		4134		3988		3829		3655		3464		3264		3057		2785	
		1744	8218	27	1.52	27	1.55	27	1.57	27	1.62	26	1.66	25	1.69	25	1.72	24	1.76	23	1.80	22	1.82	22	1.80
				4630		4568		4505		4376		4240		4093		3935		3761		3575		3385		3185	
		1829	8618	29	1.75	29	1.78	29	1.80	29	1.86	28	1.90	28	1.93	27	1.96	26	2.00	26	2.05	25	2.08	24	2.10

180 VCR-XP

Catalog Number	Mtr. HP/Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
180VX3B	1/4 15 lbs.	1175	5537	848		595																			
				8.9	.25	9.1	.23																		
180VX4B	1/3 19 lbs.	1300	6126	1089		918		698																	
				10.7	.32	10.7	.34	11.0	.32																
180VX5B	1/2 23 lbs.	1492	7030	1354		1274		1156		988		774													
				14.0	.45	13.7	.47	13.6	.50	14.0	.51	14.3	.48												
180VX6B	3/4 31 lbs.	1717	8091	1650		1578		1511		1436		1322		1174		1022									
				17.8	.65	17.6	.68	17.4	.70	17.3	.73	17.2	.76	17.4	.77	17.7	.76								
180VX7B	1 36 lbs.	1805	8505	1764		1694		1629		1564		1486		1368		1227									
				19.3	.74	19.1	.77	19.0	.80	18.8	.83	18.7	.85	18.7	.89	18.9	.90								
		1894	8925	1879		1811		1746		1685		1622		1543		1422		1155							
				21	.84	21	.88	21	.91	20	.94	20	.96	20	.99	20	1.03	21	1.02						
180VX8B	1-1/2 38 lbs.	2034	9585	2058		1993		1930		1871		1814		1756		1688		1466		1216					
				24	1.02	23	1.06	23	1.10	23	1.13	23	1.16	23	1.19	23	1.22	23	1.28	23	1.27				
		2175	10249	2235		2175		2115		2056		2001		1948		1894		1760		1536		1301			
				26	1.22	26	1.27	26	1.31	26	1.34	26	1.38	26	1.41	25	1.44	25	1.51	26	1.57	26	1.55		
180VX9B	2 50 lbs.	2286	10772	2372		2316		2258		2201		2146		2094		2044		1938		1780		1558		1320	
				28	1.40	28	1.45	28	1.49	28	1.53	28	1.57	28	1.60	28	1.64	28	1.70	28	1.78	28	1.82	29	1.78
		2397	11295	2508		2455		2401		2346		2292		2240		2191		2094		1981		1802		1593	
				31	1.60	30	1.65	30	1.69	30	1.74	30	1.78	30	1.82	30	1.85	30	1.92	30	1.99	30	2.08	31	2.10

195 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
195V2B	1/6 15 lbs.	577	2945	2774		2506		2147		1510															
				6.0	.14	5.7	.15	5.0	.16	4.6	.15														
195V3B	1/4 15 lbs.	664	3389	3192		2963		2702		2329															
				7.5	.21	7.4	.23	6.8	.24	6.3	.25														
195V4B	1/3 19 lbs.	734	3747	3528		3323		3100		2816		2454													
				9.1	.29	9.1	.31	8.5	.32	8.0	.33	7.5	.33												
195V5B	1/2 23 lbs.	842	4298	4047		3869		3683		3476		3214		2899		2513									
				11.9	.44	11.9	.46	11.5	.48	10.8	.49	10.3	.50	9.9	.50	9.5	.49								
195V6B	3/4 31 lbs.	969	4946	4658		4504		4345		4178		3995		3776		3505		3231		2865					
				15.7	.67	15.7	.69	15.5	.71	14.9	.74	14.2	.75	13.8	.76	13.4	.77	12.9	.76	12.5	.74				
195V7B	1 36 lbs.	1069	5457	5139		4999		4857		4710		4554		4384		4184		3943		3695		3009			
				19.0	.89	19.0	.92	19.0	.95	18.4	.97	17.7	1.00	17.1	1.01	16.7	1.03	16.2	1.03	15.9	1.03	15.2	.98		
195V8B	1-1/2 38 lbs.	1149	5865	5523		5393		5262		5127		4986		4837		4674		4484		4259		3792			
				21	1.11	21	1.14	21	1.17	21	1.20	20	1.22	19.4	1.24	18.8	1.26	18.4	1.28	18.0	1.28	17.3	1.27		
				5903		5781		5659		5534		5405		5270		5127		4970		4791		4363		3912	
195V9B	2 50 lbs.	1290	6585	6201		6085		5969		5851		5729		5604		5472		5332		5178		4799		4386	
				25	1.57	25	1.60	25	1.64	25	1.67	24	1.70	24	1.73	23	1.75	22	1.78	22	1.79	21	1.81	21	1.80
				6504		6394		6283		6170		6056		5938		5816		5687		5550		5226		4834	
				27	1.81	27	1.85	27	1.88	27	1.92	26	1.95	26	1.98	25	2.01	24	2.03	24	2.05	23	2.09	22	2.09

195 VCR-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
195VH3B	1/4 15 lbs.	770	3930	2251		2019		1747																	
				7.6	.23	7.1	.24	6.4	.25																
195VH4B	1/3 19 lbs.	851	4344	2571		2374		2155																	
				9.3	.31	8.8	.32	8.2	.33																
195VH5B	1/2 23 lbs.	977	4987	3044		2893		2718		2318															
				12.3	.45	11.8	.47	11.2	.48	10.0	.50														
195VH6B	3/4 31 lbs.	1051	5365	3315		3182		3029		2680		2254													
				14.1	.56	13.7	.58	13.3	.59	12.0	.62	10.6	.63												
				3579		3459		3324		3012		2656		2179											
195VH7B	1 36 lbs.	1240	6330	3994		3888		3775		3513		3217		2883		2453									
				18.8	.89	18.8	.92	18.4	.95	17.6	.98	16.1	1.01	14.7	1.03	13.6	1.01								
				4319		4223		4121		3892		3629		3342		3016		2594							
195VH8B	1-1/2 38 lbs.	1332	6799	21	1.10	21	1.13	21	1.16	19.9	1.20	18.6	1.23	17.3	1.26	16.0	1.28	14.9	1.25						
				4643		4554		4461		4259		4023		3768		3491		3176		2773					
				23	1.33	23	1.37	23	1.40	22	1.46	21	1.49	19.8	1.52	18.7	1.55	17.6	1.56	16.6	1.53				
195VH9B	2 50 lbs.	1497	7642	4899		4814		4727		4541		4327		4091		3840		3565		3250		2832			
				25	1.54	25	1.58	25	1.61	24	1.68	23	1.72	22	1.75	21	1.75	19.7	1.81	18.8	1.81	17.9	1.76		
				5154		5073		4991		4818		4326		4404		4173		3926		3654		3342		2913	
		1570	8015	26	1.77	26	1.81	26	1.85	26	1.91	25	1.97	24	2.00	23	2.03	22	2.07	21	2.09	20	2.09	19.2	2.02

195 VCR-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
195VX3B	1/4 15 lbs.	1030	5258	823																					
				6.5	.25																				
195VX4B	1/3 19 lbs.	1139	5814	1117		879																			
				8.2	.33	7.7	.33																		
195VX5B	1/2 23 lbs.	1308	6677	1455		1324		1153		901															
				11.2	.47	10.8	.49	10.3	.51	9.7	.48														
195VX6B	3/4 31 lbs.	1505	7683	1806		1706		1596		1474		1315		1102											
				15.1	.68	14.6	.71	14.3	.74	13.8	.76	13.2	.77	12.7	.75										
195VX7B	1 36 lbs.	1583	8081	1939		1846		1747		1639		1517		1356		1150									
				16.5	.78	15.9	.81	15.6	.84	15.4	.87	14.7	.89	14.2	.90	13.7	.87								
		1660	8474	2068		1981		1889		1791		1686		1564		1402									
				17.9	.88	17.4	.92	16.9	.95	16.7	.98	16.4	1.01	15.8	1.03	15.2	1.04								
195VX8B	1-1/2 38 lbs.	1783	9102	2270		2190		2108		2022		1931		1834		1726		1423							
				20	1.06	19.7	1.11	19.2	1.15	18.8	1.18	18.6	1.21	18.4	1.24	17.8	1.27	16.8	1.27						
		1906	9730	2469		2394		2319		2242		2162		2077		1987		1780		1471					
				23	1.27	22	1.32	22	1.37	21	1.41	21	1.44	21	1.48	20	1.51	19.5	1.56	18.5	1.55				
195VX9B	2 50 lbs.	2003	10225	2624		2553		2482		2410		2336		2259		2177		2001		1775		1456			
				25	1.45	24	1.51	23	1.56	23	1.60	23	1.64	22	1.68	22	1.71	22	1.785	21	1.82	19.8	1.77		
		2100	10720	2778		2710		2643		2575		2506		2434		2360		2201		2020		1775		1455	
				26	1.65	26	1.71	25	1.76	25	1.81	25	1.86	24	1.90	24	1.94	24	2.01	23	2.07	22	2.10	21	2.01

VCR/VCR-HP/VCR-XP Performance Data

210 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	CFM at Static Pressure																					
				0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
210R2B	1/6	514	2825	3052		2672		2247																	
210SC2B	15 lbs.			5.4	.14	4.8	.15	4.2	.16																
210R3B	1/4	591	3249	3509		3180		2836		2428															
210SC3B	15 lbs.			7.3	.21	6.8	.22	6.3	.24	5.6	.25														
210R4B	1/3	653	3590	3877		3580		3275		2940		2534													
210SC4B	19 lbs.			8.6	.28	8.1	.3	7.5	.31	7.0	.33	6.3	.33												
210R5B	1/2	750	4123	4453		4195		3933		3661		3363		3019		2522									
210SC5B	23 lbs.			10.6	.43	10.1	.45	9.6	.46	9.1	.48	8.6	.49	7.9	.5	7.4	.49								
210R6B	3/4	863	4744	5124		4900		4674		4445		4206		3950		3667		3344		2864					
210SC6B	31 lbs.			13.7	.65	13.3	.67	12.9	.69	12.4	.71	11.9	.73	11.4	.75	10.8	.76	10.2	.77	9.7	.75				
210R7B	1	952	5233	5653		5449		5245		5039		4829		4611		4378		4126		3849		2960			
210SC7B	36 lbs.			16.7	.88	16.2	.9	15.8	.92	15.4	.94	14.9	.97	14.5	.99	13.9	1.01	13.3	1.02	12.7	1.03	11.7	.97		
210R8B	1-1/2	1022	5618	6068		5879		5689		5498		5304		5106		4899		4681		4446		3904			
210SC8B	38 lbs.	1093	6009	19.1	1.09	18.7	1.11	18.3	1.13	17.9	1.15	17.4	1.18	16.9	1.21	16.5	1.23	15.9	1.25	15.14	1.26	14.3	1.28		
				6490		6313		6135		5957		5777		5594		5407		5213		5007		4555		3996	
				22	1.33	21	1.35	21	1.37	21	1.4	20	1.43	19.7	1.45	19.3	1.48	18.8	1.51	18.2	1.52	17.1	1.55	16.0	1.56
210R9B	2	1149	6316	6822		6654		6485		6316		6145		5973		5797		5617		5429		5022		4559	
210SC9B	50 lbs.	1205	6624	24	1.54	24	1.57	23	1.59	23	1.62	22	1.64	22	1.67	22	1.7	21	1.73	21	1.76	19.5	1.79	18.4	1.81
				7155		6994		6834		6672		6510		6346		6181		6012		5838		5467		5055	
				26	1.78	26	1.8	25	1.83	25	1.86	24	1.89	24	1.92	24	1.95	23	1.98	23	2.01	22	2.05	20	2.07

210 VCR-HP

Catalog Number	Mtr. HP/Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
210VH4B	1/3	768	4222	2769		2511		2235																	
210VH5B	1/2	882	4849	3323		3093		2875		2341															
210VRH6B	3/4	1015	5580	3932		3759		3554		3176		2679		1793											
210VH7B	1	1067	5866	4164		4008		3819		3452		3037		2485											
	36 lbs.	1120	6157	4398		4257		4085		3724		3371		2891		2091									
210VH8B	1-1/2	1286	7070	16.2	.89	16.1	.92	16.1	.95	16.0	.99	15.3	1.02	14.2	1.03	13.3	.95								
210VH9B	2	1352	7433	5122		5007		4881		4572		4264		3965		3579		3133		2301					
	50 lbs.	1417	7790	19.8	1.31	19.7	1.36	19.7	1.40	19.6	1.46	19.5	1.50	18.9	1.54	18.1	1.57	17.2	1.55	16.4	1.41				
				5406		5300		5184		4905		4600		4323		4009		3609		3164		2260			
				21	1.52	21	1.56	21	1.61	21	1.68	21	1.73	21	1.77	20	1.80	19.3	1.82	18.4	1.78	17.7	1.59		
				5685		5585		5478		5227		4932		4660		4390		4054		3659		3195		2263	
210VH10B	3	1521	8362	23	1.74	23	1.79	23	1.83	23	1.92	23	1.98	23	2.02	22	2.06	21	2.09	20	2.09	19.7	2.03	19.0	1.80
	74 lbs.	1626	8939	6131		6038		5942		5725		5462		5191		4944		4688		4374		4008		3618	
				26	2.13	26	2.19	26	2.24	26	2.33	26	2.41	25	2.46	25	2.51	25	2.55	24	2.58	23	2.59	22	2.54
				6578		6493		6404		6213		5986		5728		5481		5253		5011		4722		4384	
				29	2.59	29	2.65	29	2.70	29	2.81	28	2.90	28	2.97	28	3.02	28	3.07	27	3.11	27	3.15	26	3.16

210 VCR-XP

Catalog Number	Mtr. HP/Drv. Wt.	Fan RPM	Tip Speed	1" SP		1-1/4" SP		1-1/2" SP		1-3/4" SP		2" SP		2-1/4" SP		2-1/2" SP		3" SP		3-1/2" SP		4" SP		4-1/2" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
210VX4B	1/3	1004	5519	1127																					
210VX5B	1/2	1153	6338	9.0	.33																				
210VX6B	3/4	1327	7295	1558		1357		1102																	
210VX7B	1	1464	8048	11.3	.48	11.2	.50	12.7	.50																
210VX8B	1-1/2	1572	8642	1950		1832		1684		1487		1253													
	38 lbs.	1681	9241	14.6	.69	14.5	.73	14.4	.76	14.6	.77	18.1	.76												
210VX9B	2	1767	9714	2243		2138		2030		1905		1734		1552		1301									
	50 lbs.	1852	10181	17.4	.90	17.3	.93	17.2	.97	17.1	1.01	17.0	1.03	18.2	1.03	27	1.01								
				2469		2370		2273		2172		2055		1900		1732									
				19.3	1.08	19.2	1.13	19.1	1.17	19.0	1.21	18.8	1.24	18.7	1.27	19.6	1.28								
				2694		2600		2508		2417		2323		2215		2078		1759							
				22	1.30	21	1.34	21	1.39	21	1.43	21	1.47	21	1.51	21	1.55	23	1.56						
				2869		2780		2691		2605		2518		2426		2322		2041		1710					
				23	1.48	23	1.53	23	1.58	23	1.63	22	1.67	22	1.72	22	1.76	22	1.82	29	1.80				
				3040		2956		2871		2787		2704		2621		2532		2309		2023		1646			
				25	1.68	25	1.74	24	1.79	24	1.84	24	1.89	24	1.94	24	1.98	24	2.07	25	2.10	40	2.04		
210VX10B	3	1989	10935	3313		3235		3156		3077		2999		2922		2845		2679		2459		2192		1872	
	74 lbs.	2126	11688	28	2.04	28	2.11	27	2.17	27	2.23	27	2.28	27	2.33	26	2.38	26	2.48	26	2.57	28	2.60	39	2.55
				3583		3510		3437		3363		3289		3215		3143		2998		2837		2627		2378	
				32	2.46	31	2.53	30	2.60	30	2.66	30	2.72	30	2.78	29	2.83	29	2.94	29	3.04	29	3.13	31	3.17

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

225 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
225V3B	1/4 15 lbs.	533	3139	3684		3333		2854		2357															
				8.4	.20	8.0	.24	7.4	.24	6.6	.25														
225V4B	1/3 19 lbs.	589	3469	4071		3753		3381		2873															
				10.2	.27	9.8	.32	9.4	.32	8.5	.33														
225V5B	1/2 23 lbs.	677	3987	4680		4400		4119		3730		3288		2938											
				13.1	.41	12.7	.49	12.3	.48	11.8	.49	10.9	.49	10.2	.50										
225V6B	3/4 31 lbs.	779	4588	5385		5138		4904		4637		4281		3887		3565									
				17.3	.63	16.8	.74	16.4	.75	16.0	.73	15.4	.74	14.7	.75	14.0	.76								
225V7B	1 36 lbs.	819	4824	5661		5426		5204		4964		4655		4280		3932		3645							
				18.9	.73	18.5	.86	18.1	.87	17.7	.85	17.2	.85	16.5	.87	15.9	.87	15.2	.89						
		859	5059	5938		5712		5500		5279		5011		4671		4313		4010		3741					
				21	.84	20	.98	19.7	1.01	19.3	.99	18.9	.98	18.4	1.00	17.7	1.00	17.1	1.01	16.4	1.03				
225V8B	1-1/2 38 lbs.	923	5436	6380		6169		5971		5771		5548		5271		4942		4612		4330					
				24	1.05	23	1.20	23	1.25	22	1.24	22	1.22	21	1.22	21	1.24	20	1.25	19.5	1.26				
		986	5808	6816		6616		6430		6246		6049		5822		5544		5231		4923		4422			
				27	1.28	26	1.46	26	1.52	25	1.52	25	1.49	25	1.48	24	1.50	23	1.52	23	1.52	22	1.55		
225V9B	2 50 lbs.	1036	6102	7161		6970		6793		6618		6437		6236		5997		5716		5414		4878		4427	
				29	1.48	29	1.68	28	1.75	28	1.77	27	1.74	27	1.72	27	1.72	26	1.75	25	1.76	24	1.78	23	1.81
		1087	6402	7514		7332		7161		6994		6824		6643		6435		6191		5913		5357		4907	
				32	1.71	32	1.92	31	2.02	31	2.04	30	2.03	30	2.00	29	1.98	29	2.00	28	2.02	27	2.04	26	2.07

225 VCR-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
225VH5B	1/2 23 lbs.	606	3569	2553		2159		1479																	
				7.3	.23	7.0	.24	6.3	.22																
		779	4588	3634		3370		3074		2328															
				14.2	.46	13.9	.49	13.7	.50	13.1	.50														
225VH6B	3/4 31 lbs.	897	5283	4315		4110		3875		3356		2659													
				17.2	.69	17.0	.72	16.7	.74	16.3	.76	15.6	.77												
225VH7B	1 36 lbs.	989	5825	4830		4656		4459		4009		3521		2800											
				19.6	.90	19.6	.94	19.3	.97	18.7	1.02	18.4	1.03	17.5	1.02										
225VH8B	1-1/2 38 lbs.	1063	6261	5238		5082		4910		4511		4073		3584		2781									
				21	1.11	21	1.15	21	1.19	21	1.25	20	1.27	19.7	1.28	18.8	1.22								
		1136	6691	5638		5495		5341		4987		4588		4169		3662		2808							
				23	1.34	23	1.39	23	1.43	23	1.50	22	1.54	22	1.55	21	1.56	20	1.45						
225VH9B	2 50 lbs.	1194	7033	5953		5819		5677		5354		4985		4593		4174		3604							
				26	1.55	26	1.60	26	1.64	25	1.72	24	1.78	23	1.80	23	1.81	22	1.81						
		1251	7369	6262		6135		6002		5705		5364		4996		4615		4180		3542					
				28	1.78	28	1.82	28	1.87	28	1.96	27	2.03	26	2.06	26	2.07	25	2.08	24	2.06				
225VH10B	3 74 lbs.	1343	7910	6757		6641		6520		6257		5958		5628		5281		4924		4520		3958			
				34	2.18	34	2.23	34	2.28	34	2.38	33	2.47	32	2.53	32	2.55	31	2.57	31	2.58	30	2.57		
		1436	8458	7256		7148		7037		6801		6536		6241		5926		5600		5266		4893		4408	
				40	2.65	40	2.71	40	2.76	40	2.86	40	2.96	39	3.05	39	3.10	38	3.12	38	3.14	38	3.15	37	3.16

225 VCR-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
225VX5B	1/2 23 lbs.	1019	6002	1710		1493		1190																	
				11.5	.48	11.4	.51	11.3	.48																
225VX6B	3/4 31 lbs.	1173	6909	2147		2013		1847		1635															
				14.9	.69	14.9	.73	14.8	.76	14.7	.77														
225VX7B	1 36 lbs.	1294	7622	2474		2353		2232		2089		1908		1700											
				17.3	.89	17.2	.93	17.1	.97	17.0	1.01	16.9	1.03	16.9	1.02										
225VX8B	1-1/2 38 lbs.	1390	8187	2731		2613		2502		2388		2255		2091		1905									
				19.2	1.08	19.0	1.12	18.9	1.17	18.8	1.21	18.8	1.25	18.7	1.28	18.6	1.28								
		1486	8753	2986		2871		2763		2660		2553		2430		2282		1924							
				21	1.29	21	1.34	21	1.39	21	1.43	21	1.48	21	1.52	20	1.56	20	1.54						
225VX9B	2 50 lbs.	1562	9200	3185		3075		2968		2868		2770		2666		2547		2247		1852					
				23	1.48	23	1.53	23	1.58	23	1.63	22	1.68	22	1.73	22	1.77	22	1.82	22	1.75				
		1637	9642	3380		3274		3170		3071		2977		2882		2782		2534		2221					
				25	1.68	25	1.74	25	1.79	24	1.84	24	1.89	24	1.94	24	1.99	24	2.08	24	2.08				
225VX10B	3 74 lbs.	1718	10119	3587		3487		3387		3289		3197		3107		3017		2813		2548		2232			
				27	1.92	27	1.98	27	2.04	27	2.09	26	2.14	26	2.20	26	2.25	26	2.35	26	2.42	26	2.39		
		1799	10597	3793		3698		3602		3507		3415		3328		3243		3065		2847		2576		2254	
				30	2.17	29	2.24	29	2.30	29	2.36	29	2.42	28	2.47	28	2.53	28	2.64	28	2.74	28	2.78	28	2.71
		1879	11068	3994		3904		3812		3720		3630		3544		3461		3297		3114		2885		2614	
				32	2.45	32	2.52	31	2.59	31	2.65	31	2.71	31	2.77	31	2.83	30	2.95	30	3.06	30	3.15	30	3.16

Performance certified is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free Inlet hemispherical sone levels.</

VCR/VCR-HP/VCR-XP Performance Data

245 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
245V3B	1/4 15 lbs.	442	2835	4058		3639		3116																	
				7.2	.22	6.8	.24	6.3	.24																
245V4B	1/3 19 lbs.	489	3136	4490		4114		3691		3060															
				9.0	.30	8.6	.32	8.2	.33	7.3	.33														
245V5B	1/2 23 lbs.	561	3598	5151		4825		4481		4067		3471													
				11.9	.45	11.6	.48	11.3	.50	11.0	.50	9.7	.49												
245V6B	3/4 31 lbs.	646	4143	5931		5649		5359		5047		4674		4185											
				14.8	.69	14.5	.72	14.2	.75	13.9	.77	13.6	.76	12.7	.76										
245V7B	1 36 lbs.	679	4355	6234		5966		5692		5402		5074		4662		4104									
				16.1	.80	15.7	.83	15.4	.86	15.1	.88	14.7	.89	14.4	.88	13.0	.87								
	36 lbs.	712	4566	6537		6282		6022		5750		5453		5098		4650		3955							
				17.2	.92	16.9	.95	16.6	.99	16.3	1.01	15.9	1.03	15.5	1.02	14.7	1.01	13.5	.95						
245V8B	1-1/2 38 lbs.	765	4906	7023		6786		6546		6297		6035		5741		5391		4962		4325					
				19.7	1.14	19.4	1.18	19.0	1.21	18.7	1.25	18.3	1.27	17.8	1.27	17.3	1.27	16.4	1.25	15.4	1.19				
	38 lbs.	818	5246	7510		7288		7064		6835		6596		6341		6052		5713		5307					
				22	1.39	22	1.43	22	1.47	21	1.51	21	1.54	21	1.56	20	1.56	19.7	1.54	18.7	1.53				
245V9B	2 50 lbs.	860	5516	7896		7685		7472		7255		7032		6797		6542		6251		5912		4947			
				24	1.62	24	1.66	24	1.70	24	1.74	23	1.78	23	1.80	22	1.81	22	1.81	22	1.79	19.3	1.71		
	50 lbs.	902	5785	8281		8080		7878		7672		7461		7243		7011		6756		6465		5738			
				27	1.86	27	1.91	26	1.96	26	2.00	26	2.04	25	2.07	25	2.08	24	2.09	24	2.08	22	2.05		

245 VCR-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
245VH5B	1/2 23 lbs.	670	4297	4143		3805		3393																	
				10.6	.47	10.0	.49	9.4	.50																
245VH6B	3/4 31 lbs.	771	4945	4929		4675		4369		3661															
				14.2	.71	13.8	.73	13.3	.74	12.0	.77														
245VH7B	1 36 lbs.	811	5201	5233		4998		4730		4061		3255													
				15.3	.81	15.0	.84	14.6	.86	13.4	.89	12.1	.88												
		850	5451	5528		5307		5065		4442		3783													
				16.5	.93	16.2	.96	15.8	.98	14.7	1.02	13.5	1.03												
245VH8B	1-1/2 38 lbs.	913	5856	5999		5796		5583		5056		4458		3732											
				18.4	1.14	18.2	1.18	17.8	1.20	16.9	1.25	15.8	1.28	14.7	1.26										
		976	6260	6466		6279		6084		5640		5075		4522		3721									
				20	1.38	20	1.42	19.9	1.45	19.1	1.50	18.1	1.55	17.1	1.56	16.1	1.52								
245VH9B	2 50 lbs.	1026	6580	6835		6657		6475		6076		5564		5036		4446									
				22	1.59	22	1.64	22	1.68	21	1.72	19.9	1.75	18.9	1.81	18.1	1.80								
		1076	6901	7201		7033		6860		6494		6044		5526		5027		4353							
				24	1.82	24	1.87	24	1.92	23	1.98	22	2.03	21	2.08	20	2.09	19.2	2.05						
245VH10B	3 74 lbs.	1156	7414	7785		7628		7470		7140		6769		6307		5832		5364		4738					
				27	2.23	27	2.30	27	2.35	27	2.43	26	2.48	25	2.54	24	2.59	23	2.59	22	2.55				
		1235	7921	8358		8212		8065		7762		7437		7055		6603		6166		5725		5153			
31	2.70			31	2.77	31	2.84	30	2.93	30	2.99	29	3.05	28	3.12	27	3.16	26	3.16	25	3.12				

270 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
270V3B	1/4 15 lbs.	376	2657	4620		4073		3320																	
				5.0	.22	4.7	.24	4.1	.24																
270V4B	1/3 19 lbs.	416	2940	5112		4623		4039																	
				6.3	.30	6.0	.32	5.4	.33																
270V5B	1/2 23 lbs.	477	3371	5861		5439		4981		4381															
				8.4	.45	8.3	.48	7.5	.50	7.1	.50														
270V6B	3/4 31 lbs.	549	3880	6746		6381		6000		5576		5025		4158											
				11.5	.68	11.5	.72	10.6	.75	9.9	.77	9.4	.76	9.0	.72										
270V7B	1 36 lbs.	577	4078	7090		6743		6384		5995		5523		4889											
				12.4	.79	12.4	.83	11.6	.87	10.9	.89	10.4	.88	9.9	.87										
				7447		7116		6777		6416		6001		5472		4701									
270V8B	1-1/2 38 lbs.	651	4601	7999		7692		7379		7052		6696		6274		5746		4965							
				14.9	1.14	14.9	1.18	14.5	1.23	13.7	1.26	13.1	1.28	12.6	1.27	12.2	1.26	11.7	1.20						
				8552		8265		7974		7673		7355		7000		6578		6063		5310					
270V9B	2 50 lbs.	732	5174	16.4	1.39	16.4	1.44	16.2	1.49	15.5	1.52	14.8	1.55	14.4	1.56	14.0	1.55	13.6	1.54	13.2	1.47				
				8995		8722		8445		8162		7867		7549		7185		6753		6231					
				17.7	1.61	17.7	1.67	17.6	1.72	17.0	1.76	16.4	1.79	15.8	1.81	15.4	1.81	15.0	1.80	14.6	1.78				
				9425		9164		8901		8633		8355		8062		7740		7368		6930		5565			
				18.9	1.86	18.9	1.92	18.9	1.97	18.4	2.01	17.8	2.05	17.3	2.08	16.9	2.09	16.5	2.08	16.1	2.06	15.4	1.89		

270 VCR-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
270VH5B	1/2 23 lbs.	569	4022	4576		4080		3523																	
				9.9	.47	9.1	.50	8.4	.50																
270VH6B	3/4 31 lbs.	655	4629	5489		5136		4685		3652															
				13.9	.70	12.8	.73	12.0	.76	10.8	.76														
270VH7B	1 36 lbs.	689	4870	5837		5518		5122		4200															
				15.6	.81	14.5	.84	13.6	.87	12.3	.89														
				6181		5888		5540		4682															
270VH8B	1-1/2 38 lbs.	777	5492	6721		6461		6164		5406		4565													
				18.7	1.14	18.2	1.18	17.2	1.21	15.7	1.27	14.7	1.27												
				7245		7008		6747		6098		5339		4405											
270VH9B	2 50 lbs.	872	6163	21	1.37	21	1.42	19.5	1.46	17.8	1.53	16.7	1.56	16.1	1.53										
				7656		7434		7195		6622		5908		5156											
				22	1.58	22	1.63	22	1.68	19.7	1.75	18.4	1.80	17.6	1.80										
270VH10B	3 74 lbs.	983	6948	8075		7867		7645		7132		6477		5789		4947									
				24	1.82	24	1.87	24	1.92	22	2.00	20	2.07	19.3	2.09	18.7	2.05								
				8734		8542		8342		7898		7352		6713		6066		5232							
				27	2.24	27	2.29	27	2.35	25	2.44	24	2.53	23	2.58	22	2.59	21	2.54						
				9378		9201		9018		8622		8159		7595		6995		6378		5574					
				31	2.71	31	2.77	31	2.83	29	2.94	27	3.03	26	3.11	25	3.15	24	3.15	23	3.09				

270 VCR-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP																							
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP																				
270VX5B	1/2 23 lbs.	756	5343	1974																																											
				12.1	.51																																										
270VX6B	3/4 31 lbs.	869	6142	2661		2374																																									
				14.3	.74	14.5	.77																																								
270VX7B	1 36 lbs.	959	6778	3117		2907		2647		2270																																					
				16.3	.96	16.3	1.00	16.5	1.03	17.0	1.02																																				
270VX8B	1-1/2 38 lbs.	1101	7782	3781		3624		3451		3253		3015		2697																																	
				19.3	1.37	19.3	1.44	19.3	1.49	19.4	1.53	19.7	1.56	20	1.56																																
270VX9B	2 50 lbs.	1157	8178	4035		3888		3732		3559		3362		3125		2811																															
				21	1.56	21	1.63	21	1.69	21	1.75	21	1.79	22	1.81	22	1.81																														
				4289		4150		4008		3853		3682		3488		3256																															
270VX10B	3 74 lbs.	1304	9217	24		1.77		23		1.85		23		1.92		23		1.98		23		2.03		23		2.07		24		2.09																	
				4688		4558		4428		4294		4151		3994		3820		3379																													
				27		2.14		27		2.23		27		2.31		27		2.38		27		2.45		27		2.51		27		2.55		28		2.59													
270VX11B	5 98 lbs.	1525	10779	5079		4954		4833		4711		4585		4452		4307		3974		3529																											
				32		2.56		31		2.65		31		2.74		31		2.83		31		2.91		31		2.98		31		3.04		31		3.13		32		3.16									
				5655		5537		5423		5312		5201		5088		4971		4713		4414		4043		3519																							
				39		3.27		38		3.38		38		3.48		38		3.58		38		3.68		38		3.76		38		3.85		38		3.99		38		4.10		39		4.15		40		4.10	
				6223		6110		6001		5897		5794		5693		5590		5375		5137		4869		4552																							
				43		4.09		43		4.22		43		4.34		42		4.45		42		4.56		42		4.66		42		4.76		42		4.94		42		5.10		42		5.22		43		5.3	

VCR/VCR-HP/VCR-XP Performance Data

300 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP		
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone
300V3B	1/4 15 lbs.	314	2466	5763	4932	3486																				
				4.8	.21	4.2	.24	3.3	.24																	
300V4B	1/3 19 lbs.	348	2733	6387	5664	4589																				
				5.9	.29	5.4	.32	4.6	.33																	
300V5B	1/2 23 lbs.	399	3133	7323	6716	5941	4788																			
				7.7	.44	7.3	.47	6.6	.50	5.9	.50															
300V6B	3/4 31 lbs.	459	3604	8424	7910	7302	6532	5471																		
				10.2	.67	9.8	.71	9.1	.75	8.4	.76	7.7	.76													
300V7B	1 36 lbs.	507	3981	9305	8845	8321	7709	6916	5907																	
				12.4	.90	12.2	.94	11.4	.99	10.6	1.02	10.0	1.03	9.3	1.02											
300V8B	1-1/2 38 lbs.	582	4571	10682	10285	9855	9370	8822	8151	7327	6284															
				15.6	1.36	15.6	1.41	14.8	1.46	14.1	1.51	13.4	1.55	12.8	1.55	12.2	1.55	11.6	1.47							
300V9B	2 50 lbs.	641	5034	11765	11406	11027	10608	10150	9637	9023	8287	7461														
				18.2	1.81	18.2	1.87	17.7	1.93	17.0	1.99	16.3	2.04	15.7	2.07	15.1	2.08	14.5	2.07	13.9	2.05					
300V10B	3 74 lbs.	736	5780	13508	13197	12876	12534	12163	11768	11340	10862	10306	8982													
				23	2.74	23	2.81	23	2.88	22	2.95	21	3.01	21	3.07	20	3.11	19.6	3.14	19.1	3.14	18.0	3.13			
300V11B	5 98 lbs.	806	6330	14793	14509	14219	13917	13593	13248	12886	12497	12075	11058	9831												
				27	3.60	27	3.68	27	3.75	26	3.83	26	3.90	25	3.97	24	4.03	24	4.08	23	4.12	22	4.12	21	4.11	
				16060	15798	15533	15260	14972	14668	14347	14013	13660	12868	11891												
				31	4.61	31	4.69	31	4.77	31	4.85	30	4.93	29	5.01	29	5.09	28	5.16	27	5.21	26	5.28	25	5.27	

300 VCR-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
300VH5B	1/2 23 lbs.	477	3746	5050	4371	3466																			
				7.8	.48	7.1	.50	6.6	.49																
300VH6B	3/4 31 lbs.	549	4311	6182	4607	5015																			
				10.5	.72	9.7	.74	9.0	.76																
300VH7B	1 36 lbs.	606	4759	7030	6536	6007	4813																		
				12.9	.94	12.1	.99	11.3	1.00	10.1	1.02														
300VH8B	1-1/2 38 lbs.	651	5112	7678	7244	6757	5746																		
				14.8	1.15	14.1	1.20	13.4	1.23	12.0	1.27														
				8312	7928	7487	6562	5467																	
300VH9B	2 50 lbs.	767	6024	9295	8970	8600	7774	6920	5833																
				19.8	1.84	19.4	1.90	18.6	1.96	17.2	2.03	15.9	2.07	14.9	2.06										
300VH10B	3 74 lbs.	823	6463	10060	9767	9443	8695	7914	7081	5910															
				22	2.25	22	2.32	21	2.39	19.8	2.48	18.5	2.53	17.4	2.57	16.4	2.51								
				10832	10564	10276	9608	8882	8144	7319	6108														
300VH11B	5 98 lbs.	963	7563	11947	11708	11457	10892	10245	9580	8903	8163	7185													
				28	3.53	28	3.62	28	3.71	27	3.86	25	3.97	24	4.03	23	4.08	22	4.12	21	4.06				
				13055	12837	12612	12124	11564	10956	10343	9721	9055	8249	7112											
				32	4.49	32	4.59	32	4.68	31	4.86	30	5.01	29	5.11	27	5.16	26	5.22	25	5.28	24	5.26	24	5.05

300 VCR-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
300VX6B	3/4 31 lbs.	730	5733	2786	2334																				
				12.1	.75	12.9	.77																		
300VX7B	1 36 lbs.	806	6330	3371	3029	2619																			
				13.9	.98	14.4	1.01	15.1	1.03																
300VX8B	1-1/2	866	6801	3787	3510	3171	2783																		
				15.8	1.18	15.4	1.23	16.1	1.26	16.8	1.28														
	38 lbs.	925	7264	4174	3938	3662	3333	2968																	
				17.5	1.4	17.1	1.46	17.2	1.51	17.8	1.54	18.4	1.56												
300VX9B	2	972	7634	4472	4259	4018	3738	3411	3056																
				18.9	1.59	18.6	1.67	18.3	1.72	18.7	1.76	19.3	1.80	19.8	1.81										
	50 lbs.	1019	8003	4764	4568	4353	4109	3827	3508	3164															
				20	1.79	20	1.88	19.9	1.95	19.8	2.00	20	2.04	21	2.08	22	2.08								
300VX10B	3	1095	8600	5229	5051	4866	4663	4436	4179	3889	3227														
				23	2.15	23	2.26	23	2.36	22	2.43	22	2.48	23	2.53	23	2.57	25	2.56						
	74 lbs.	1170	9189	5680	5516	5348	5172	4981	4770	4535	3989														
				26	2.56	26	2.68	26	2.79	25	2.89	25	2.96	25	3.02	25	3.07	27	3.15						
300VX11B	5	1280	10053	6333	6182	6032	5879	5720	5552	5369	4954	4458	3906												
				31	3.26	31	3.38	30	3.51	30	3.63	30	3.74	30	3.84	29	3.91	30	4.02	31	4.11	32	4.12		
	98 lbs.	1391	10924	6983	6843	6705	6567	6427	6283	6132	5802	5419	4972	4486											
				37	4.08	36	4.22	36	4.35	35	4.49	35	4.63	35	4.75	35	4.86	34	5.03	35	5.15	36	5.26	37	5.31

330 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
330V5B	1/2 23 lbs.	341	2946	7650		6920		6050		4379															
				7.0	.45	6.5	.49	5.7	.50	4.9	.44														
330V6B	3/4 31 lbs.	393	3395	8817		8189		7512		6630		5013													
				9.2	.68	8.9	.73	8.0	.76	7.3	.76	6.6	.68												
330V7B	1 36 lbs.	433	3740	9714		9147		8551		7866		6934													
				11.2	.91	10.9	.97	10.0	1.01	9.2	1.02	8.6	1.01												
330V8B	1-1/2 38 lbs.	498	4302	11173		10681		10176		9639		9024		8243		7127									
				14.6	1.39	14.6	1.45	13.7	1.51	12.9	1.55	12.1	1.56	11.5	1.54	10.8	1.49								
330V9B	2 50 lbs.	523	4518	11734		11265		10787		10286		9734		9066		8220		6813							
				16.0	1.61	16.0	1.68	15.2	1.74	14.3	1.78	13.6	1.80	12.9	1.79	12.2	1.77	11.7	1.62						
330V10B	3 74 lbs.	588	5079	12294		11848		11394		10922		10416		9831		9115		8190							
				17.1	1.85	17.1	1.92	16.4	1.99	15.6	2.04	14.9	2.07	14.2	2.07	13.6	2.05	13.0	2.02						
330V11B	5 98 lbs.	689	5952	13192		12776		12354		11921		11468		10974		10400		9711		8849					
				19.0	2.29	19.0	2.36	18.4	2.43	17.8	2.49	17.1	2.54	16.5	2.56	15.8	2.55	15.2	2.53	14.6	2.50				
		629	5434	14112		13723		13331		12930		12516		12079		11598		11046		10395		8382			
				21	2.80	21	2.88	21	2.96	20	3.03	19.4	3.08	18.8	3.12	18.1	3.14	17.6	3.12	17.0	3.10	15.9	2.86		
		748	6462	15458		15103		14746		14384		14014		13632		13231		12798		12312		11122		9180	
				25	3.68	25	3.77	25	3.85	24	3.93	23	4.00	23	4.06	22	4.10	21	4.12	21	4.12	19.6	4.06	18.5	3.76
				16781		16455		16127		15795		15459		15114		14761		14391		13997		13086		11937	
				28	4.71	28	4.80	28	4.90	28	4.99	27	5.07	26	5.14	26	5.20	25	5.25	25	5.27	24	5.25	22	5.19

330 VCR-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
330VH5B	1/2 23 lbs.	416	3593	5392		4522																			
				8.0	.49	7.2	.50																		
330VH6B	3/4 31 lbs.	479	4138	6641		5951		5189																	
				10.7	.72	9.9	.75	9.1	.77																
330VH7B	1 36 lbs.	528	4561	7553		6985		6319		4552															
				13.0	.95	12.2	.99	11.5	1.02	10.0	1.00														
330VH8B	1-1/2 38 lbs.	567	4898	8259		7756		7173		5850															
				15.0	1.16	14.2	1.21	13.5	1.24	12.0	1.27														
		606	5235	8953		8498		7990		6818		5091													
17.1	1.40			16.3	1.45	15.6	1.50	14.3	1.55	12.7	1.51														
330VH9B	2 50 lbs.	668	5771	10037		9640		9212		8210		7104													
				19.9	1.85	19.5	1.91	18.8	1.96	17.5	2.05	16.1	2.08												
330VH10B	3 74 lbs.	718	6203	10900		10537		10153		9286		8292		7157											
				22	2.27	22	2.34	21	2.40	20	2.51	18.9	2.57	17.5	2.57										
		767	6626	11738		11402		11052		10285		9385		8439		7220									
				25	2.75	25	2.82	24	2.89	23	3.01	22	3.10	20	3.14	19.1	3.11								
330VH11B	5 98 lbs.	839	7248	12958		12654		12343		11680		10930		10083		9215		8146							
				28	3.56	28	3.64	28	3.72	27	3.87	26	3.99	25	4.07	24	4.12	22	4.09						
		912	7879	14186		13908		13626		13036		12395		11673		10888		10091		9164		7774			
				33	4.55	33	4.63	33	4.72	32	4.88	30	5.04	29	5.16	28	5.24	27	5.28	26	5.27	25	5.17		

VCR/VCR-HP/VCR-XP Performance Data

365 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
365V6B	3/4	319	3048	9425		8374		6939		5421															
	31 lbs.	346	3306	7.6	.52	7.2	.55	6.4	.57	5.6	.59														
365V7B	1	382	3650	10222		9257		8064		6842															
	36 lbs.	438	4185	8.9	.66	8.6	.70	7.7	.72	6.9	.75														
365V8B	1-1/2	438	4185	11286		10415		9479		8170		7149													
	38 lbs.	483	4615	12940		12183		11406		10474		9322		8485											
365V9B	2	460	4395	14.2	1.34	14.1	1.39	13.2	1.43	12.4	1.16	11.6	1.49	10.9	1.53										
	50 lbs.	557	5322	13590		12870		12135		11323		10163		9336		8315									
365V10B	3	519	4959	15.5	1.55	15.5	1.60	14.6	1.65	13.8	1.69	13.0	1.71	12.3	1.75	11.6	1.79								
	74 lbs.	555	5303	14270		13584		12887		12148		11131		10177		9427									
365V11B	5	607	5800	17.0	1.80	17.0	1.85	16.2	1.90	15.4	1.94	14.6	1.97	13.9	2.00	13.2	2.05								
	78 lbs.	659	6297	15333		14696		14050		13385		12617		11551		10780		10070							
				19.2	2.23	19.2	2.29	18.6	2.34	17.8	2.39	17.1	2.43	16.4	2.45	15.7	2.49	15.0	2.55						
				16397		15801		15199		14585		13932		13088		12113		11440		10773					
				21	2.73	21	2.79	21	2.85	19.9	2.90	19.1	2.95	18.4	2.98	17.8	3.01	17.2	3.06	16.6	3.11				
				17933		17389		16840		16284		15715		15096		14296		13383		12728		11446			
				24	3.57	24	3.64	24	3.70	23	3.77	23	3.82	22	3.87	21	3.90	20	3.93	18.9	4.10				
				19469		18968		18464		17955		17438		16907		16322		15583		14716		13515		12244	
				28	4.57	28	4.64	28	4.71	27	4.78	26	4.85	26	4.90	25	4.95	24	4.99	24	5.02	23	5.13	22	5.26

365 VCR-HP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
365VH7B	1	440	4204	8756		7976		7188																	
	36 lbs.			11.3	.97	10.8	1.00	10.1	1.02																
365VH8B	1-1/2	506	4835	10463		9834		9151		7719															
	38 lbs.			15.1	1.44	14.4	1.49	13.9	1.52	12.3	1.56														
365VH9B	2	532	5083	11111		10540		9893		8585		6358													
	50 lbs.	557	5322	16.7	1.67	16.0	1.72	15.3	1.76	13.9	1.80	12.4	1.72												
365VH10B	3	599	5723	11728		11204		10598		9362		7859													
	74 lbs.	640	6115	18.2	1.90	17.5	1.95	16.8	2.00	15.6	2.06	13.9	2.06												
365VH11B	5	700	6688	12749		12289		11757		10608		9416		7466											
	98 lbs.	760	7262	21	2.35	20	2.40	19.4	2.46	18.3	2.54	16.7	2.58	15.1	2.48										
365VH12B	7-1/2	816	7797	13735		13321		12854		11788		10714		9485											
	120 lbs.	872	8332	23	2.85	22	2.91	22	2.97	21	3.07	19.4	3.13	17.9	3.14										
				15163		14798		14402		13476		12491		11499		10348									
				26	3.70	26	3.76	26	3.83	24	3.96	23	4.05	22	4.10	20	4.11								
				16578		16251		15903		15109		14207		13306		12384		11327		9616					
				30	4.71	30	4.78	30	4.85	28	4.99	27	5.12	26	5.20	25	5.26	23	5.27	22	5.09				
				17890		17589		17275		16581		15774		14926		14088		13220		12240		10824			
				34	5.81	34	5.88	34	5.96	33	6.11	31	6.26	30	6.37	29	6.45	28	6.51	26	6.52	25	6.38		
				19197		18918		18631		18011		17298		16512		15723		14937		14122		13214		12026	
				38	7.07	38	7.15	38	7.23	37	7.39	36	7.55	35	7.70	34	7.81	32	7.89	31	7.94	29	7.96	28	7.86

365 VCR-XP

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP		2.250" SP		2.500" SP		3.000" SP		3.500" SP		4.000" SP		4.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
365VX7B	1	572	5465	4040																					
	36 lbs.			10.8	1.02																				
365VX8B	1-1/2	657	6278	5355		4807		4166																	
	38 lbs.			13.3	1.49	13.5	1.54	14.4	1.55																
365VX9B	2	691	6602	5829		5344		4784		4112															
	50 lbs.	724	6918	14.5	1.70	14.4	1.76	15.1	1.81	16.2	1.78														
365VX10B	3	778	7434	6269		5836		5335		4770															
	74 lbs.	831	7940	15.8	1.92	15.7	2.00	15.9	2.06	16.7	2.08														
365VX11B	5	909	8686	6957		6591		6171		5698		5173		4532											
	98 lbs.	988	9441	18.0	2.31	17.7	2.42	17.6	2.50	17.9	2.56	18.8	2.58	19.9	2.53										
365VX12B	7-1/2	1060	10129	7608		7288		6930		6526		6080		5590		5027									
	120 lbs.	1132	10817	20	2.74	19.6	2.87	19.5	2.98	19.3	3.05	19.8	3.12	21	3.15	22	3.11								
				8537		8262		7967		7642		7282		6890		6465		5478							
				23	3.45	23	3.62	23	3.76	22	3.88	22	3.97	22	4.04	23	4.06	25	4.06						
				9456		9211		8955		8684		8390		8069		7721		6950		6050					
				27	4.29	26	4.49	26	4.66	26	4.82	25	4.95	25	5.05	25	5.14	26	5.28	28	5.23				
				10279		10056		9825		9585		9332		9061		8768		8117		7385		6546			
				31	5.17	30	5.39	29	5.59	29	5.78	29	5.94	28	6.09	28	6.21	28	6.39	30	6.52	31	6.47		
				11093		10886		10675		10458		10232		9996		9745		9191		8566		7875		7099	
				35	6.17	34	6.40	33	6.62	33	6.84	32	7.04	32	7.22	32	7.38	31	7.62	31	7.81	33	7.95	35	7.91

Performance certified is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free

402 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
402V6B	3/4 31 lbs.	294	3098	11648		10390		8682		7054															
402V7B	1 36 lbs.	324	3414	8.1	.66	7.6	.70	6.8	.73	6.0	.76														
				12836		11700		10378		8833															
402V8B	1-1/2 38 lbs.	348	3667	9.7	.88	9.3	.93	8.6	.96	7.7	.99														
				13787		12732		11600		10011		8786													
		372	3919	14738		13752		12727		11292		10094													
				12.7	1.34	12.5	1.39	11.7	1.44	10.9	1.47	10.0	1.51												
402V9B	2 50 lbs.	392	4130	15530		14596		13635		12443		11075		10008											
				14.1	1.57	13.9	1.62	13.1	1.67	12.2	1.71	11.4	1.74	10.7	1.79										
		411	4330	16283		15393		14482		13456		12024		11041		9511									
				15.4	1.80	15.3	1.87	14.5	1.92	13.7	1.96	12.9	1.99	12.1	2.04	11.3	2.07								
402V10B	3 74 lbs.	441	4647	17472		16642		15799		14910		13702		12517		11618									
				17.4	2.23	17.4	2.29	16.7	2.36	15.9	2.41	15.1	2.44	14.4	2.48	13.7	2.53								
		471	4963	18660		17884		17098		16289		15355		14058		13119		12256							
				19.6	2.71	19.6	2.79	18.9	2.85	18.1	2.91	17.4	2.95	16.7	2.98	16.0	3.04	15.3	3.10						
402V11B	5 98 lbs.	515	5426	20403		19694		18979		18250		17487		16555		15347		14475		13714					
				23	3.55	23	3.63	22	3.70	22	3.77	21	3.83	20	3.87	19.5	3.90	18.8	3.96	18.2	4.02				
		560	5900	22186		21534		20878		20214		19536		18809		17911		16786		15939		14485			
				26	4.56	26	4.65	26	4.73	25	4.81	24	4.88	23	4.93	23	4.98	22	5.01	21	5.07	20	5.21		

445 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
445V6B	3/4 31 lbs.	248	2889	13278		11622		9396																	
				7.2	.66	6.8	.70	5.9	.73																
445V7B	1 36 lbs.	274	3192	14670		13181		11219		9428															
				8.8	.88	8.4	.94	7.5	.97	6.7	1.01														
445V8B	1-1/2 38 lbs.	294	3425	15740		14358		12758		10864															
				10.0	1.09	9.6	1.15	8.8	1.19	8.0	1.23														
		315	3669	16865		15577		14198		12258		10768													
11.4	1.34			11.1	1.41	10.3	1.45	9.4	1.49	8.6	1.54														
445V9B	2 50 lbs.	331	3856	17721		16498		15219		13393		11972													
				12.5	1.56	12.3	1.62	11.5	1.68	10.6	1.71	9.8	1.76												
		347	4042	18578		17412		16208		14633		13043		11553											
13.7	1.80			13.6	1.86	12.7	1.92	11.9	1.96	11.1	2.01	10.3	2.07												
445V10B	3 74 lbs.	373	4345	19970		18887		17779		16538		14792		13586		11818									
				15.7	2.23	15.7	2.31	14.8	2.37	14.1	2.42	13.2	2.46	12.4	2.52	11.6	2.56								
		398	4636	21309		20294		19262		18173		16686		15247		14146									
17.6	2.71			17.6	2.79	16.9	2.86	16.1	2.92	15.3	2.96	14.6	3.01	13.9	3.08										
445V11B	5 98 lbs.	436	5079	23343		22418		21481		20522		19455		17953		16703		15707		14305					
				21	3.56	21	3.65	21	3.73	19.3	3.81	18.6	3.87	17.8	3.90	17.2	3.96	16.5	4.04	15.8	4.11				
		473	5510	25324		24471		23612		22737		21827		20762		19312		18178		17265					
24	4.55			24	4.64	24	4.74	23	4.82	22	4.89	21	4.95	20	4.99	19.8	5.05	19.1	5.13						

490 VCR

Catalog Number	Mtr. HP/ Drv. Wt.	Fan RPM	Tip Speed	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		0.875" SP		1.000" SP		1.250" SP		1.500" SP	
				Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP
490V7B	1 36 lbs.	233	2988	16655		14719		12081																	
				7.8	.88	7.3	.94	6.5	.97																
490V8B	1-1/2 38 lbs.	251	3219	17941		16152		13825		11666															
				9.0	1.10	8.7	1.16	7.8	1.21	6.9	1.26														
		268	3437	19156		17486		15564		13259															
10.3	1.34			9.9	1.41	9.1	1.46	8.3	1.50																
490V9B	2 50 lbs.	282	3617	20157		18572		16856		14496		12543													
				11.4	1.56	11.1	1.63	10.2	1.69	9.3	1.73	8.5	1.80												
		295	3784	21086		19573		17979		15688		13990													
12.3	1.78			12.1	1.86	11.3	1.93	10.4	1.97	9.5	2.03														
490V10B	3 74 lbs.	317	4066	22659		21253		19803		17934		15976		14252											
				14.1	2.21	14.0	2.30	13.1	2.37	12.3	2.42	11.4	2.47	10.7	2.55										
		339	4348	24231		22918		21576		20073		17957		16493		14366									
16.0	2.71			15.9	2.80	15.1	2.88	14.3	2.94	13.5	2.99	12.7	3.06	11.9	3.11										
490V11B	5 98 lbs.	371	4759	26519		25320		24103		22834		21216		19339		18035		16312							
				18.7	3.55	18.7	3.65	18.0	3.74	17.2	3.82	16.5	3.88	15.7	3.93	15.0	4.01	14.3	4.09						
		403	5169	28806		27703		26589		25448		24206		22499		20872		19684		18279					
22	4.55			22	4.66	21	4.76	20	4.86	19.6	4.93	18.8	4.98	18.1	5.04	17.4	5.13	16.7	5.23						

Performance certified is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free Inlet hemispherical sone levels. **Shaded area indicates reinforced wheel required.**

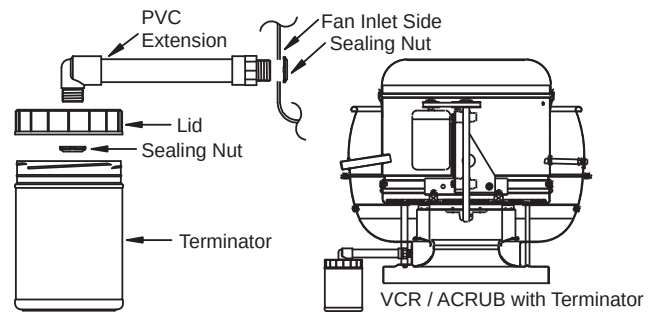
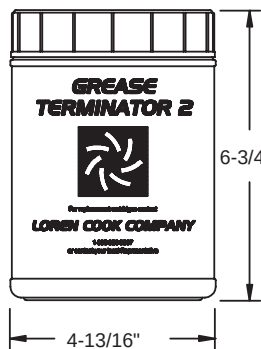
Grease Terminator 2 Specifications & Dimensions



Terminator 2 - Loren Cook Grease Terminator 2 is designed to “terminate” grease problems generated in most kitchen applications. When used properly, the multiple-layer, dual-fiber, grease-capture and containment system stops grease from draining onto the roof. The Terminator 2, constructed of a durable recyclable plastic, captures grease in purified fibers, separates the grease particles from all moisture, and then repels the moisture. The unique reverse flow design prevents washout during periods of heavy rainfall. The clear canister, which fastens to the drain of an upblast roof exhauster, absorbs almost eight times its own weight and is easily installed on Cook model VCR restaurant roof exhausters and Cook model CPV and CPS vent sets.

Maintenance - Depending on the amount of grease discharged through the fan, the Terminator 2 should be changed every 30 to 45 days to ensure proper operation. Any buildup of grease is easily seen during a visual inspection of the clear canister. However, if the Terminator 2 becomes saturated, grease will no longer be absorbed.

Installation - Installation of the Terminator 2 on several models is accomplished by attaching the terminator assembly (extended tubing and Terminator 2) to the drain hole in the fan. Model VCR requires one Terminator 2. Once the assembly tubing is installed, it need not be replaced when the Terminator 2 is changed.



Description: Fan shall be ceiling mounted, direct driven, centrifugal exhaust fan.

Certifications: Fan shall be manufactured by an ISO 9001 certified company. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705) or UL Laboratories (UL 507) and UL listed for Canada (cUL 507). Fan shall bear the AMCA Certified Ratings Seal for sound and air performance.

Construction: Fan wheel housing and integral outlet duct collar shall be injection molded from a specially engineered resin exceeding UL requirements for smoke and heat generation. The outlet duct shall have provision for an aluminum backdraft damper with continuous aluminum hinge rod. The inlet box shall be minimum 22 gauge galvanized steel. Motor shall be isolation mounted to a one piece galvanized stamped steel integral motor mount/inlet. A field wiring compartment with disconnect receptacle shall be standard. To accommodate different ceiling thickness, an adjustable prepunched mounting bracket shall be provided. A white, non-yellowing, high impact styrene injection molded grille shall be provided as standard. Unit shall be designed with provision for field conversion from ceiling to inline. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel: Wheel shall be centrifugal forward curved type, injection molded of polypropylene resin. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Motor: Motor shall be open drip proof type with permanently lubricated sealed bearings and include impedance or thermal overload protection and disconnect plug. Motor shall be furnished at the specified voltage.

Product: Fan shall be model Gemini GC 122-184 as manufactured by Loren Cook Company of Springfield, Missouri.

Ceiling Fans



Loren Cook Company certifies that the Gemini GC 122-184 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 requirements of the AMCA Certified Ratings Program.



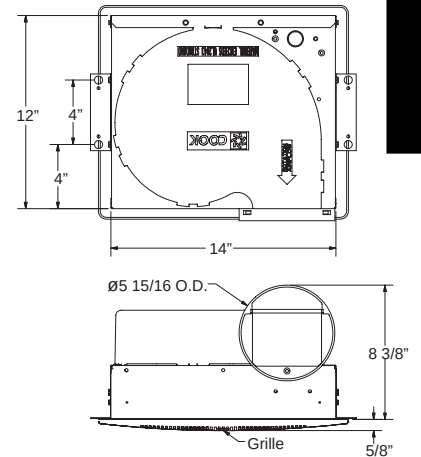
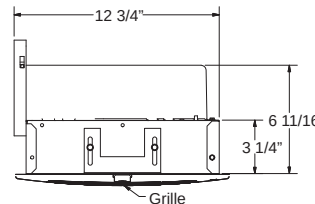
Type Gemini GC 122-184 are furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ZACT).

Dimensions

Grille Material	A
Plastic	13-1/4
Steel	13-1/2
Aluminum	13-3/4

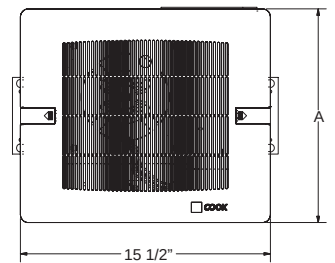
All dimensions in inches.

Unit Size	Approx. Ship Wt. Lbs.
122/124	13
142/144	15
162/164	15
182/184	16



Model GC	Max. Watts	RPM	HVI Sonest†	0.0 SP		.100 SP		.125 SP		.250 SP		.375 SP		.500 SP		.625 SP		.750 SP		.875 SP		1.000 SP	
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
GC-122	50	800	0.7	60	1.0	59	1.1	58	1.1	56	1.3	53	2.0	49	2.7	42	3.5	28	4.4				
GC-124	64	900	1.1	81	1.5	80	1.6	79	1.6	77	1.7	73	2.1	67	2.7	59	3.3	49	4.2	32	5.2		
GC-142	59	1000	1.1	111	1.6	97	1.7	94	1.7	84	1.9	76	2.2	68	2.7	60	3.4	48	4.5	30	5.7		
GC-144	98	1100	2.0	139	2.8	133	2.9	131	2.9	124	3.0	117	3.2	108	3.4	97	3.7	84	4.2	65	4.8	42	5.5
GC-162	103	1200	2.5	154	3.3	151	3.4	150	3.4	145	3.6	140	3.7	131	3.8	117	4.0	105	4.1	87	4.8	56	5.5
GC-164	145	1300	4.0	190	4.9	186	4.8	185	4.8	180	4.7	174	4.7	166	4.7	148	4.7	131	4.7	110	5.1	78	5.5
GC-182	185	1400	5.5	232	6.9	227	6.9	226	6.8	219	6.8	212	6.7	203	6.6	189	6.5	173	6.4	155	6.3	130	6.2
GC-184	220	1500	6.0	262	7.7	255	7.6	253	7.5	244	7.4	234	7.2	222	7.1	207	6.9	189	6.6	166	6.3	143	6.1

Performance shown is for Installation Type B: Free inlet, ducted outlet. Performance ratings for GC-122 through GC-184 include the effects of inlet grille in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of the test. The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type B: Free inlet hemispherical sone levels. †HVI sones @ .1" static pressure. AMCA Certified Ratings Seal does not apply to HVI Sones.



GC 220-960 Specifications and Dimensions

Ceiling Fans



GC 220 - 740



GC 822 - 960



Loren Cook Company certifies that the Gemini GC 220-960 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 requirements of the AMCA Certified Ratings Program.



Type Gemini GC 220-960 are furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ZACT).

Description: Fan shall be ceiling, wall, or inline mounted, direct drive, centrifugal exhaust fan.

Certifications: Fan shall be manufactured by an ISO 9001 certified company. 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: Fan housing shall be minimum 20 gauge galvanized steel and acoustically insulated. Blower and motor assembly shall be mounted to a minimum 14 gauge reinforcing channel and shall be easily removable from the housing. Motor shall be mounted on vibration isolators. Unit shall be supplied with integral wiring box and disconnect receptacle shall be standard. Discharge position shall be convertible from right angle to straight through by moving interchangeable panels. The outlet duct collar shall include a reinforced aluminum damper with continuous aluminum hinge rod and nylon bushings. To accommodate different ceiling thickness, an adjustable prepunched mounting bracket shall be provided. A white, non-yellowing, high impact styrene injection molded grille shall be provided as standard on 200 and 300 series. A powder painted white steel grille shall be provided as standard on 800-900 series. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel: Wheel shall be centrifugal forward curved type, constructed of galvanized steel. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

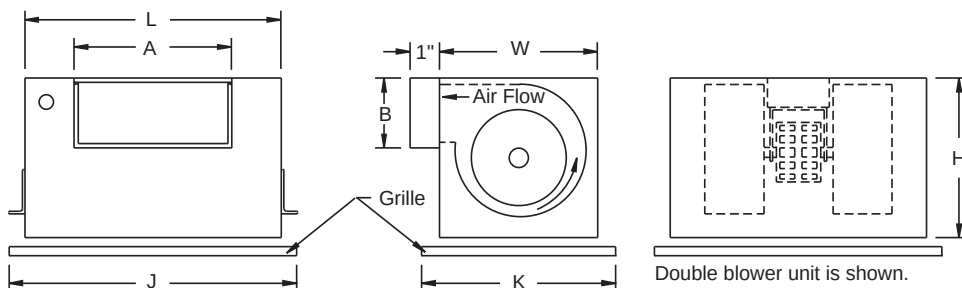
Motor: Motor shall be open drip proof type with permanently lubricated sealed bearings, built-in thermal overload protection and disconnect plug. Motor shall be furnished at the specified voltage.

Product: Fan shall be model Gemini GC 220-960 as manufactured by Loren Cook Company of Springfield, Missouri.

Dimensions

Model GC	Housing			Outlet		Plastic Grille		Steel Grille		Deluxe Aluminum Grille		Approx. Ship-Wt. Lbs.
	L	W	H	A	B	J	K	J	K	J	K	
220, 240	12-3/8	9-3/4	9-3/4	8	6	15-1/2	13-1/4	16-3/8	13-5/8	14-1/4	11	22
320, 340	12-3/8	10-3/4	10-3/4	8	6					14-1/4	12-1/4	25
420	17	11-7/8	11-7/8	8	6			21	14-1/4	18-3/4	13-3/4	30
520	17	11-7/8	11-7/8	8	6			21	14-1/4	18-3/4	13-3/4	32
620, 640	17	11-7/8	11-7/8	10-1/2	4-3/4	-	-	21	14-1/4	18-3/4	13-3/4	35
720, 740	17	11-7/8	11-7/8	10-1/2	4-3/4			21	14-1/4	18-3/4	13-3/4	36
822, 842, 862	27	14-11/16	14-11/16	20	6			31-3/8	17-1/8	28-3/4	16-1/4	74
920, 940, 960	31	14-11/16	14-11/16	24-1/4	6			35-1/8	17-1/8	32-3/4	16-1/4	86

All dimensions in inches.



Model GC	Max. Watts/BHP	RPM	HVI Sonest†	0.0 SP		.100 SP		.125 SP		.250 SP		.375 SP		.500 SP		.625 SP		.750 SP		.875 SP		1.000 SP	
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
GC-220	39	1050	0.8	120	1.2	107	1.2	104	1.1	73	1.3												
GC-240	65	1200	1.3	147	2.2	130	1.9	126	1.9	99	1.5												
GC-320	75	1365	3.0	217	4.4	205	4.1	202	4.1	182	3.8	148	3.3										
GC-340	135	1610	3.5	257	4.9	237	4.5	232	4.4	212	4.3	187	4.1										
GC-420	170	1145	3.5	327	5.3	294	4.3	287	4.0	260	3.4	236	2.9	202	2.7								
GC-520	172	1205	4.5	356	5.9	347	5.7	344	5.7	332	5.5	318	5.1	301	4.6	279	4.3	249	4.0				
GC-620	233	960	2.5	451	3.7	433	3.3	428	3.3	400	3.3	359	3.3	297	3.6								
GC-640	351	1075	3.5	559	4.6	520	4.3	512	4.3	476	4.1	429	4.0	346	3.9								
GC-720	301	1375	5.5	709	6.7	687	6.6	682	6.6	653	6.6	619	6.3	578	6.1	535	5.9	480	5.7	385	5.4		
GC-740	374	1625	7.0	852	8.7	823	8.3	815	8.3	775	7.9	727	7.5	672	7.1	616	6.3	552	5.6	463	5.0	303	4.4
GC-822	293	910	3.5	944	4.4	929	4.6	925	4.7	904	5.0	879	4.9	830	4.8								
GC-842	380	974	5.0	1187	6.1	1157	6.2	1149	6.2	1106	6.4	1043	5.9	905	5.5	637	4.7						
GC-862	450	1098	7.0	1433	8.5	1371	8.2	1355	8.2	1266	7.8	1149	6.9	995	6.1	775	5.3						
GC-920	0.28 HP	925	6.0	1471	7.6	1427	7.4	1415	7.3	1356	7.5	1286	7.7	1190	8.1	1003	8.5						
GC-940	0.38 HP	1040	7.5	1653	9.2	1582	8.8	1565	8.8	1481	8.6	1400	8.4	1293	8.6	1089	8.7						
GC-960	0.48 HP	1112	8.0	1807	10.3	1716	9.7	1694	9.6	1588	9.1	1491	8.7	1386	8.6	1197	8.5						

Performance shown is for Installation Type B: Free inlet, ducted outlet. Performance ratings for GC-220 through GC-960 include the effects of inlet grille and backdraft damper in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of the test. The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type B: Free inlet hemispherical sone levels. †HVI sones @ .1" static pressure. AMCA Certified Ratings Seal does not apply to HVI Sones.

Description: Fan shall be ceiling, wall, or inline mounted, direct drive, centrifugal exhaust fan.

Certifications: Fan shall be manufactured by an ISO 9001 certified company. 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: Fan housing shall be minimum 20 gauge galvanized steel and acoustically insulated. Blower and motor assembly shall be mounted to a minimum 14 gauge reinforcing channel. Motor shall be resiliently mounted. Unit shall be supplied with integral wiring box. Discharge position shall be convertible from right angle to straight through by moving interchangeable panels. The outlet duct collar shall include reinforced aluminum dampers with continuous aluminum hinge rods and nylon bushings. To accommodate different ceiling thickness, an adjustable pre-punched mounting bracket shall be provided. A powder painted white steel grille shall be provided as standard. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel: Wheels shall be twin DWDI centrifugal forward curved type, constructed of galvanized steel. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Motor: Motor shall be totally enclosed type with permanently lubricated sealed bearings and built-in thermal overload protection. Motor shall be furnished at the specified voltage and phase.

Product: Fan shall be model GC 1000 and GC 2000 as manufactured by Loren Cook Company of Springfield, Missouri.

Ceiling Fans



Loren Cook Company certifies that the Gemini 1000 and 2000 series 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.



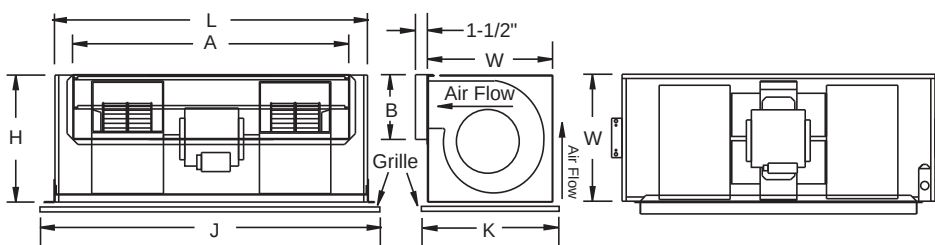
Type Gemini GC 1000 and 2000 are furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ZACT).

Ceiling, Wall and Cabinet Fans

Dimensions

Model GC	Housing			Outlet		Standard Grille		Deluxe Aluminum Grille		Approx. Ship Wt. Lbs.
	L	W	H	A	B	J	K	J	K	
GC-1000	38-1/8	15-1/4	15-1/4	33-11/16	7-11/16	42-3/8	17-1/8	38-3/4	15-3/4	125
GC-2000	45-7/16	16-5/8	16-5/8	41-1/8	9-5/8	49-1/2	18-1/2	45-3/4	17-1/4	165

All dimensions in inches.



Model GC	Max. BHP	RPM	HVI Sones†	0.0 SP		.100 SP		.125 SP		.250 SP		.375 SP		.500 SP		.625 SP		.750 SP		.875 SP		1.000 SP	
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
GC1000	0.58	1100	6.5	-	-	2230	7.8	2207	7.8	2090	7.6	1958	7.1	1796	6.7	1575	6.6	1090	6.6				
	0.43	*1000	5.0	-	-	2010	6.4	1985	6.4	1852	6.1	1692	5.6	1470	5.4								
	0.32	*900	4.0	-	-	1788	5.2	1759	5.1	1604	4.7	1391	4.3	905	4.2								
	0.22	*800	3.0	-	-	1562	3.9	1529	3.9	1334	3.2	946	3.1										
GC2000	1.18	1140	9.0	-	-	3472	10.9	3441	10.9	3282	10.8	3105	10.6	2925	10.4	2736	10.2	2503	10.0	2147	9.9	1431	9.7
	0.80	*1000	7.0	-	-	3014	8.8	2978	8.7	2787	8.6	2582	8.3	2364	8.1	2064	7.9	1408	7.7				
	0.58	*900	6.0	-	-	2683	7.5	2642	7.5	2421	7.3	2190	6.9	1878	6.7	1115	6.5						
	0.41	*800	5.0	-	-	2347	6.3	2299	6.3	2045	5.9	1739	5.6										

Performance ratings for GC-1000 and GC-2000 is for Installation Type B: Free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of the test. The AMCA Certified Ratings Seal applies to air performance ratings only. *GC 1000 and GC 2000 RPM shown with optional FSC. †HVI sones @ .1" static pressure. AMCA Certified Ratings Seal does not apply to HVI Sones.

Inline Fans Description: Fan shall be inline mounted, direct drive, centrifugal exhaust fan.

Certifications: Fan shall be manufactured by an ISO 9001 certified company. 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: Fan wheel housing and integral outlet duct collar shall be injection molded from a specially engineered resin exceeding UL requirements for smoke and heat generation. The outlet duct shall have provision for an aluminum backdraft damper with continuous aluminum hinge rod. The inlet box shall be minimum 22 gauge galvanized steel. Motor shall be isolation mounted to a one piece galvanized stamped steel integral motor mount/inlet. A field wiring compartment with disconnect receptacle shall be standard. To accommodate different mounting positions, an adjustable prepunched mounting bracket shall be provided. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

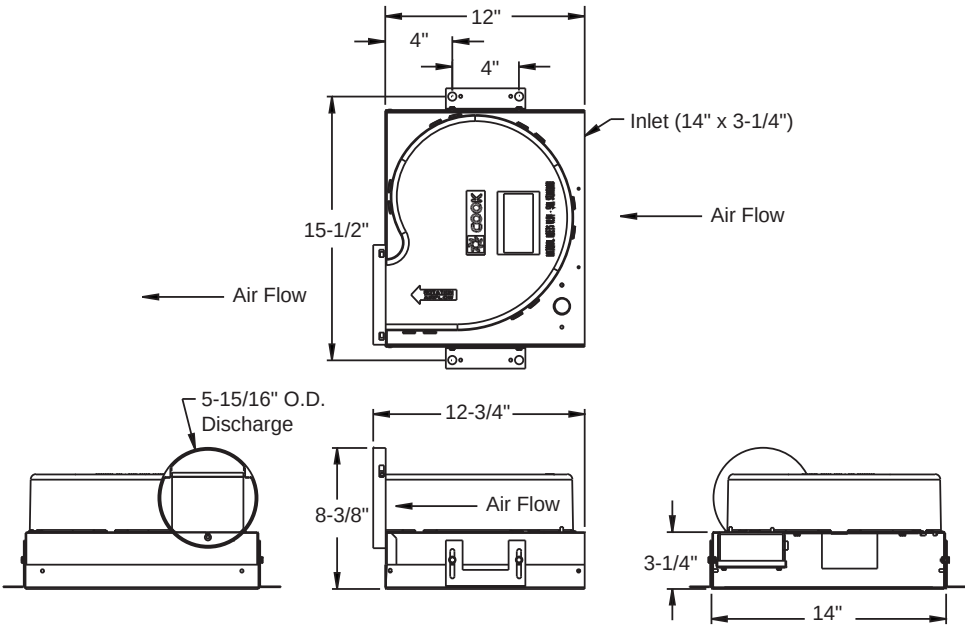
Wheel: Wheel shall be centrifugal forward curved type, injection molded of polypropylene resin. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Motor: Motor shall be open drip proof type with permanently lubricated sealed bearings and include impedance or thermal overload protection and disconnect plug. Motor shall be furnished at the specified voltage and phase.

Product: Fan shall be model Gemini GN 122-184 as manufactured by Loren Cook Company of Springfield, Missouri.

Dimensions:

Model	Approx. Ship-Wt. Lbs.
GN-122/GN-124	15
GN-142/GN-144	15
GN-162/GN-164	16
GN-182/GN-184	16



Model GC	Max. Watts	RPM	HVI Sones†	0.0 SP		.100 SP		.125 SP		.250 SP		.375 SP		.500 SP		.625 SP		.750 SP		.875 SP		1.000 SP	
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
GC-122	50	800	0.7	60	1.0	59	1.1	58	1.1	56	1.3	53	2.0	49	2.7	42	3.5	28	4.4				
GC-124	64	900	1.1	81	1.5	80	1.6	79	1.6	77	1.7	73	2.1	67	2.7	59	3.3	49	4.2	32	5.2		
GC-142	59	1000	1.1	111	1.6	97	1.7	94	1.7	84	1.9	76	2.2	68	2.7	60	3.4	48	4.5	30	5.7		
GC-144	98	1100	2.0	139	2.8	133	2.9	131	2.9	124	3.0	117	3.2	108	3.4	97	3.7	84	4.2	65	4.8	42	5.5
GC-162	103	1200	2.5	154	3.3	151	3.4	150	3.4	145	3.6	140	3.7	131	3.8	117	4.0	105	4.1	87	4.8	56	5.5
GC-164	145	1300	4.0	190	4.9	186	4.8	185	4.8	180	4.7	174	4.7	166	4.7	148	4.7	131	4.7	110	5.1	78	5.5
GC-182	185	1400	5.5	232	6.9	227	6.9	226	6.8	219	6.8	212	6.7	203	6.6	189	6.5	173	6.4	155	6.3	130	6.2
GC-184	220	1500	6.0	262	7.7	255	7.6	253	7.5	244	7.4	234	7.2	222	7.1	207	6.9	189	6.6	166	6.3	143	6.1

Performance ratings for GC-1000 and GC-2000 is for Installation Type B: Free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the air stream. Speed (RPM) shown is nominal. Performance is based on actual speed of the test. The AMCA Certified Ratings Seal applies to air performance ratings only. *GC 1000 and GC 2000 RPM shown with optional FSC. †HVI sones @ .1" static pressure. AMCA Certified Ratings Seal does not apply to HVI Sones.



Loren Cook Company certifies that the Gemini GN 122-184 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 requirements of the AMCA Certified Ratings Program.



Type Gemini GN 122-184 are furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ZACT).

Description: Fan shall be inline mounted, direct drive, centrifugal exhaust fan.

Certifications: Fan shall be manufactured by an ISO 9001 certified company. 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.

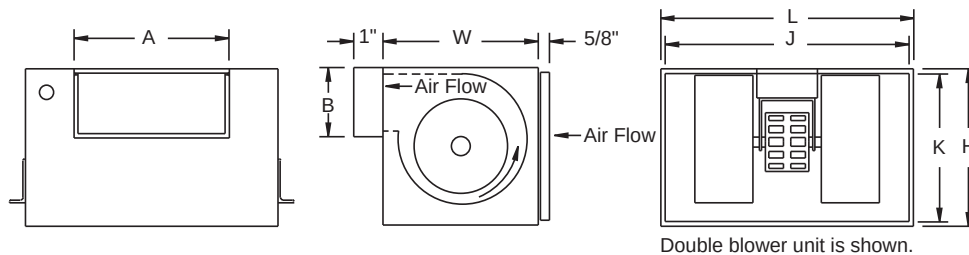
Construction: Fan housing shall be minimum 20 gauge galvanized steel and acoustically insulated. Blower and motor assembly shall be mounted to a minimum 14 gauge reinforcing channel and shall be easily removable from the housing. Motor shall be mounted on vibration isolators. Unit shall be supplied with integral wiring box and receptacle and disconnect receptacle shall be standard. Discharge position shall be convertible from right angle to straight through by moving interchangeable panels. The outlet duct collar shall include a reinforced aluminum damper with continuous aluminum hinge rod and nylon bushings. To accommodate different mounting positions, an adjustable prepunched mounting bracket shall be provided. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel: Wheel shall be centrifugal forward curved type, constructed of galvanized steel. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Motor: Motor shall be open drip proof type with permanently lubricated sealed bearings and built-in thermal overload protection and disconnect plug. Motor shall be furnished at the specified voltage and phase.

Product: Fan shall be model Gemini GN 220-960 as manufactured by Loren Cook Company of Springfield, Missouri.

Dimensions



Model GN	Housing			Outlet		Inlet Collar		Approx. Ship-Wt. Lbs.
	L	W	H	A	B	J	K	
220, 240	12-3/8	9-3/4	9-3/4	8	6	12-5/16	9-11/16	22
320, 340	12-3/8	10-3/4	10-3/4	8	6	12-5/16	10-11/16	25
420	17	11-7/8	11-7/8	8	6	16-15/16	11-15/16	30
520	17	11-7/8	11-7/8	8	6	16-15/16	11-15/16	32
620, 640	17	11-7/8	11-7/8	10-1/2	4-3/4	16-15/16	11-15/16	35
720, 740	17	11-7/8	11-7/8	10-1/2	4-3/4	16-15/16	11-15/16	36
822, 842, 862	27	14-11/16	14-11/16	20	6	27	14-1/2	74
920, 940, 960	31	14-11/16	14-11/16	24-1/4	6	31	14-1/2	86

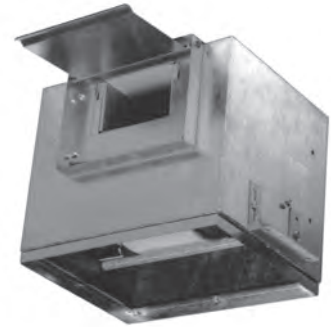
All dimensions in inches.

Model GN	Max. Watts/ BHP	RPM	HVI Sones†	0.0 SP		.100 SP		.125 SP		.250 SP		.375 SP		.500 SP		.625 SP		.750 SP		.875 SP		1.000 SP	
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
GN-220	40	1050	1.0	120	1.3	108	1.5	104	1.5	75	2.3												
GN-240	54	1260	1.5	149	2.4	130	2.2	126	2.3	103	2.3												
GN-320	77	1360	1.5	212	2.3	202	2.3	200	2.1	186	2.0	165	2.3										
GN-340	137	1625	2.5	266	3.6	241	3.3	237	3.2	220	2.8	194	2.4										
GN-420	172	1075	1.4	327	2.8	300	2.0	294	1.9	263	1.4	236	1.3	205	1.2								
GN-520	171	1200	2.5	362	3.7	354	3.5	351	3.5	340	3.2	327	2.9	311	2.6	291	2.4	262	2.3				
GN-620	245	950	1.0	459	1.7	445	1.5	441	1.4	421	1.2	394	1.2	334	1.3								
GN-640	350	1000	1.1	526	1.8	502	1.6	496	1.6	459	1.4	413	1.3	336	1.5								
GN-720	323	1325	2.5	717	3.7	698	3.6	693	3.6	669	3.5	641	3.3	608	3.0	565	2.9	504	2.8	411	2.7	288	2.6
GN-740	398	1600	4.0	873	5.4	842	5.2	834	5.2	794	4.9	751	4.6	703	4.3	648	3.8	587	3.4	504	3.1	353	2.7
GN-822	309	904	2.0	931	2.6	916	2.7	912	2.7	892	2.9	870	2.9	838	3.1								
GN-842	387o	976	3.0	1160	3.8	1138	3.8	1132	3.8	1102	3.8	1063	3.7	942	3.7	752	3.0						
GN-862	490	1082	4.5	1492	5.6	1445	5.4	1432	5.4	1362	5.1	1244	4.6	1092	4.0	880	3.2						
GN-920	0.28 HP	900	3.0	1493	4.1	1454	3.9	1444	4.0	1392	4.3	1332	4.6	1242	4.9	1076	5.3						
GN-940	0.38 HP	1000	4.0	1679	5.3	1608	5.2	1591	5.2	1511	5.1	1433	5.3	1336	5.4	1164	5.6						
GN-960	0.50 HP	1105	5.0	1875	6.5	1765	6.2	1741	6.1	1638	5.9	1547	5.7	1436	5.8	1272	5.9						

Performance shown is for Installation Type D: Ducted inlet, ducted outlet. Performance ratings for GN-220 through GN-960 include the effects of a backdraft damper in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in hemispherical sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type D: Ducted inlet hemispherical sone levels. Ratings do not include the effect of duct end correction. Ratings are based on insulated inlet duct. The AMCA Certified Ratings Seal applies to air performance ratings only.

†HVI sones @ .1" static pressure. AMCA Certified Ratings Seal does not apply to HVI Sones.

Inline Fans



GN 220-740



GN 822-960

Ceiling, Wall and
Cabinet Fans

Inline Fans



Loren Cook Company certifies that the Gemini 1000 and 2000 series 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 Gemini GN 1000-2000 are furnished standard with UL 705 & cUL 705 listing (Power Ventilator/ZACT).



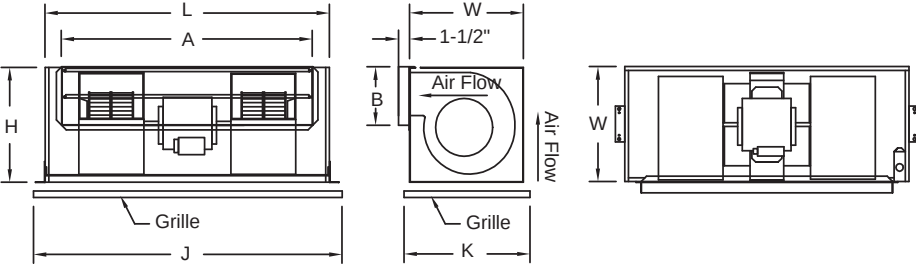
Type Gemini GN 1000-2000 is available with UL 1995 & cUL 1995 listing (Heating and Cooling Equipment-Fan Unit), when installed with inlet and outlet duct.

- Description:** Fan shall be inline mounted, direct drive, centrifugal exhaust fan.
- Certifications:** Fan shall be manufactured by an ISO 9001 certified company. 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:** Fan wheel housing shall be minimum 20 gauge galvanized steel and acoustically insulated. Blower and motor assembly shall be mounted to a minimum 14 gauge reinforcing channel. Motor shall be resiliently mounted. Unit shall be supplied with integral wiring box. Discharge position shall be field convertible from straight through, inline configuration to right angle configuration by moving interchangeable panels. The outlet duct collar shall include reinforced aluminum dampers with continuous aluminum hinge rods and nylon bushings. To accommodate different ceiling thickness, an adjustable prepunched mounting bracket shall be provided. Unit shall be shipped in ISTA Certified Transit Tested Packaging.
- Wheel:** Wheels shall be twin DWDI centrifugal forward curved type, constructed of galvanized steel. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.
- Motor:** Motor shall be totally enclosed type with permanently lubricated sealed bearings and built-in thermal overload protection. Motor shall be furnished at the specified voltage and phase.
- Product:** Fan shall be model Gemini GN 1000 or GN 2000 as manufactured by Loren Cook Company of Springfield, Missouri.

Dimensions

Model GN	Housing			Outlet		Standard Grille		Approx. Ship Wt. Lbs.
	L	W	H	A	B	J	K	
GN-1000	38-1/8	15-1/4	15-1/4	33-11/16	7-11/16	42-3/8	17-1/8	125
GN-2000	45-7/16	16-5/8	16-5/8	41-1/8	9-5/8	49-1/2	18-1/2	165

All dimensions in inches.



Model GN	Max. BHP	RPM	HVI Sonest†	0.0 SP		.100 SP		.125 SP		.250 SP		.375 SP		.500 SP		.625 SP		.750 SP		.875 SP		1.000 SP	
				CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones	CFM	Sones
GN1000	0.58	1100	6.5	-	-	2230	7.8	2207	7.8	2090	7.6	1958	7.1	1796	6.7	1575	6.6	1090	6.6				
GN1000	0.43	*1000	5.0	-	-	2010	6.4	1985	6.4	1852	6.1	1692	5.6	1470	5.4								
GN1000	0.32	*900	4.0	-	-	1788	5.2	1759	5.1	1604	4.7	1391	4.3	905	4.2								
GN1000	0.22	*800	3.0	-	-	1562	3.9	1529	3.9	1334	3.2	946	3.1										
GN2000	1.18	1140	9.0	-	-	3472	10.9	3441	10.9	3282	10.8	3105	10.6	2925	10.4	2736	10.2	2503	10.0	2147	9.9	1431	9.7
GN2000	0.80	*1000	7.0	-	-	3014	8.8	2978	8.7	2787	8.6	2582	8.3	2364	8.1	2064	7.9	1408	7.7				
GN2000	0.58	*900	6.0	-	-	2683	7.5	2642	7.5	2421	7.3	2190	6.9	1878	6.7	1115	6.5						
GN2000	0.41	*800	5.0	-	-	2347	6.3	2299	6.3	2045	5.9	1739	5.6										

Performance ratings for GN-1000 and GN-2000 is for Installation Type B: Free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of the test. The AMCA Certified Ratings Seal applies to air performance ratings only. *GN 1000 and GN 2000 RPM shown with optional FSC. †HVI sonest @ .1" static pressure. AMCA Certified Ratings Seal does not apply to HVI Sonest.

Description: Fan shall be duct mounted, belt driven centrifugal cabinet fan.

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 construction utilizing corrosion resistant fasteners. Housing shall be minimum 18 gauge galvanized steel with two access doors and integral duct collars. Internal blower and motor assembly shall be mounted on rubber vibration isolators. Hanging brackets shall be provided for horizontal 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.

Wheel: Wheel shall be DWDI centrifugal forward curved type, constructed of painted steel. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

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

Bearings: Bearings shall be permanently lubricated, sealed ball type selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

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

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

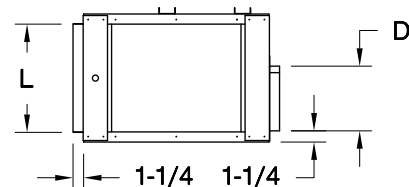
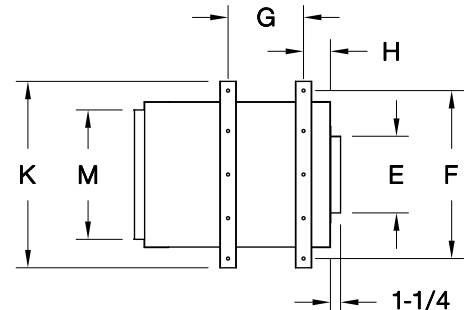
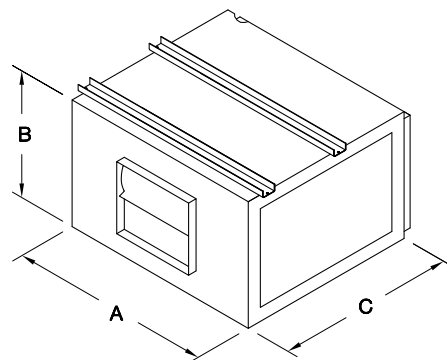
Forward Curved Wheel Duct Blower



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



Type DB is furnished standard with UL 705 and cUL705 listing (Power Ventilator/ZACT) when furnished with a TEFC motor.



Dimensions

Size	A	B	C	D O.D.	E O.D.	F	G	H	K	L O.D.	M O.D.	Shi p Wt.
DB-8	18-1/8	15-7/16	23	7-7/8	9-1/4	21	9-5/8	2-5/16	23	13-7/16	16-1/8	53
DB-9	21-1/8	18-1/8	25-3/4	10-5/16	11-7/8	24	11-3/4	2-11/16	26	16-1/8	19-1/8	70
DB-10	22-3/8	20-1/8	28-1/4	11-3/8	13-1/8	26	13-3/8	2-11/16	28	18-1/8	20-3/8	80
DB-13	27-1/8	23-3/16	31-1/4	13-7/16	15-5/8	30	16-1/8	2-11/16	32	21-3/16	25-1/8	108
DB-15	32-1/2	26-15/16	36-1/4	15-7/8	18-5/8	36	19-1/2	2-11/16	38	24-15/16	30-1/2	205
DB-18	41	31-7/8	44-3/4	18-7/8	21-7/8	44	24	2-7/8	46	29-7/8	39	400

8 DB

CFM	OV	Static Pressure																							
		.125"		.250"		.375"		.500"		.625"		.750"		1.000"		1.250"		1.500"		1.750"		2.000"			
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		
400	796	463	0.02	607	0.03																				
600	1195	547	0.05	668	0.07	772	0.09	865	0.11	957	0.13														
800	1593	651	0.09	751	0.12	844	0.14	926	0.17	1004	0.19	1077	0.22	1214	0.28										
1000	1992	769	0.17	848	0.20	929	0.23	1007	0.26	1076	0.29	1142	0.32	1266	0.39	1381	0.45	1490	0.52	1601	0.60				
1200	2390	891	0.27	961	0.31	1025	0.34	1093	0.38	1160	0.42	1222	0.45	1335	0.53	1442	0.61	1543	0.69	1639	0.77	1730	0.85		
1400	2788	1015	0.42	1079	0.46	1136	0.50	1191	0.54	1249	0.58	1308	0.63	1417	0.71	1516	0.80	1609	0.89	1700	0.99	1786	1.08		
1600	3187	1140	0.60	1200	0.66	1253	0.71	1302	0.75	1351	0.80	1400	0.85	1503	0.94	1599	1.04	1688	1.14	1771	1.25	1852	1.35		
1800	3585	1269	0.84	1323	0.90	1372	0.96	1419	1.02	1462	1.07	1506	1.12	1593	1.23	1685	1.34	1772	1.45	1853	1.56				
2000	3984	1395	1.14	1448	1.21	1494	1.28	1538	1.34	1579	1.40	1618	1.46	1696	1.57										
2200	4382	1527	1.50	1573	1.58	1618	1.65																		

9 DB

CFM	OV	Static Pressure																							
		.125"		.250"		.375"		.500"		.625"		.750"		1.000"		1.250"		1.500"		1.750"		2.000"			
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP		
700	833	415	0.04																						
950	1130	468	0.07	581	0.09	687	0.12																		
1200	1428	550	0.12	630	0.15	717	0.18	806	0.22	883	0.25														
1450	1726	647	0.21	692	0.23	767	0.27	837	0.30	913	0.34	985	0.39												
1700	2023	747	0.33	779	0.35	825	0.38	892	0.42	952	0.47	1014	0.51	1140	0.61	1249	0.71								
1950	2321	848	0.49	874	0.51	905	0.54	949	0.57	1008	0.62	1062	0.67	1169	0.78	1281	0.89	1380	1.01						
2200	2619	952	0.70	974	0.73	998	0.75	1027	0.78	1067	0.82	1118	0.88	1215	0.99	1309	1.10	1410	1.23	1503	1.36	1586	1.50		
2450	2916	1056	0.97	1075	0.99	1095	1.01	1118	1.04	1145	1.08	1180	1.12	1271	1.25	1356	1.37	1440	1.49	1531	1.64				
2700	3214	1158	1.28	1176	1.31	1195	1.34	1214	1.37	1235	1.40	1260	1.44	1327	1.55										
2900	3452	1241	1.59	1259	1.62	1276	1.65																		

10 DB

CFM	OV	Static Pressure																					
		.125"		.250"		.375"		.500"		.625"		.750"		1.000"		1.250"		1.500"		1.750"		2.000"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
800	771	358	0.04	488	0.07	586	0.10																
1135	1094	408	0.08	507	0.11	608	0.15	691	0.19	761	0.23	829	0.27										
1470	1417	489	0.15	552	0.18	631	0.22	704	0.27	785	0.32	853	0.37	965	0.47	1070	0.58						
1805	1740	583	0.27	622	0.30	677	0.34	743	0.39	803	0.44	862	0.50	992	0.63	1094	0.75	1183	0.87	1268	1.00	1352	1.14
2140	2063	679	0.44	709	0.47	745	0.51	791	0.56	847	0.61	901	0.67	1000	0.80	1110	0.95	1211	1.11	1295	1.25	1370	1.39
2475	2386	778	0.66	802	0.70	829	0.74	861	0.78	900	0.84	945	0.90	1041	1.04	1126	1.18	1216	1.35	1313	1.53	1399	1.71
2810	2709	877	0.96	898	1.00	920	1.04	944	1.08	973	1.14	1005	1.20	1085	1.34	1170	1.49	1246	1.66	1321	1.83	1403	2.03
3145	3032	977	1.33	995	1.38	1014	1.42	1035	1.47	1057	1.52	1082	1.58	1141	1.72	1213	1.87	1290	2.05	1360	2.23	1426	2.41
3480	3355	1077	1.8	1094	1.84	1111	1.89	1129	1.94	1147	1.99	1167	2.05	1213	2.19	1268	2.34	1334	2.52	1404	2.71	1470	2.90
3815	3678	1176	2.35	1192	2.40	1208	2.46	1224	2.51	1240	2.57	1257	2.63	1295	2.76	1339	2.91	1390	3.08	1449	3.27		
4150	4001	1277	3.02	1293	3.08	1307	3.14	1321	3.19	1335	3.25												

Performance shown is for Installation Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses. Shaded area's available for DBX units only.

13 DB

CFM	OV	Static Pressure																	
		.125"		.250"		.375"		.500"		.625"		.750"		1.000"		1.250"		1.500"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1300	902	354	0.08	458	0.12														
1700	1180	399	0.14	485	0.19	567	0.24												
2100	1458	450	0.23	533	0.29	596	0.35	662	0.41	726	0.48								
2500	1736	521	0.37	571	0.42	644	0.50	696	0.57	751	0.64	806	0.72	911	0.90				
2900	2013	595	0.56	625	0.60	687	0.69	745	0.78	790	0.85	836	0.94	932	1.12	1024	1.32		
3300	2291	671	0.82	695	0.86	727	0.92	790	1.03	840	1.13	881	1.22	961	1.40	1045	1.60	1128	1.83
3700	2569	747	1.14	767	1.18	791	1.24	825	1.31	884	1.44	930	1.56	1003	1.76	1075	1.97	1151	2.20
4100	2847	824	1.54	841	1.59	861	1.64	884	1.70	917	1.79	972	1.94	1053	2.19	1117	2.42	1182	2.64
4500	3124	901	2.03	917	2.08	934	2.13	953	2.20	975	2.27	1006	2.37	1101	2.69	1167	2.95	1225	3.19
4900	3402	978	2.61	993	2.66	1008	2.72	1024	2.78	1042	2.85	1063	2.93	1134	3.20	1216	3.54	1275	3.83
5300	3680	1055	3.28	1069	3.35	1083	3.41	1098	3.48	1113	3.54	1130	3.62	1175	3.82	1255	4.18	1324	4.53
5700	3958	1133	4.08	1147	4.15	1159	4.21	1172	4.28	1185	4.35	1200	4.42	1235	4.61	1287	4.87	1366	5.29
6100	4236	1211	4.99	1224	5.06	1234	5.12	1247	5.20	1260	5.28	1272	5.35						

15 DB

CFM	OV	Static Pressure																	
		.125"		.250"		.375"		.500"		.625"		.750"		1.000"		1.250"		1.500"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1800	876	313	0.10	393	0.15	461	0.20												
2600	1266	377	0.23	446	0.29	507	0.36	559	0.43	607	0.51	654	0.58						
3400	1656	457	0.44	508	0.53	562	0.62	612	0.71	658	0.80	699	0.90	774	1.08	846	1.28		
4200	2045	542	0.79	584	0.89	626	1.00	669	1.11	712	1.22	752	1.33	825	1.55	890	1.78	950	2.02
5000	2435	629	1.28	666	1.39	701	1.52	736	1.64	772	1.78	809	1.91	879	2.18	943	2.45	1001	2.71
5800	2825	718	1.96	751	2.08	782	2.22	812	2.36	842	2.51	873	2.66	936	2.97	997	3.28	1054	3.59
6600	3214	808	2.84	838	2.99	866	3.13	892	3.27	919	3.44	945	3.61	999	3.96	1055	4.32	1109	4.66
7400	3604	899	3.96	926	4.13	951	4.27	976	4.44	1000	4.62	1024	4.81	1071	5.19				
7800	3799	945	4.62	971	4.80	995	4.96	1019	5.13	1042	5.31	1064	5.49						
8200	3994	991	5.35																

18 DB

CFM	OV	Static Pressure																	
		.125"		.250"		.375"		.500"		.625"		.750"		1.000"		1.250"		1.500"	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3200	1091	258	0.21	323	0.29														
3870	1319	299	0.35	336	0.41	395	0.53												
4540	1548	343	0.55	366	0.60	406	0.69	458	0.84										
5210	1776	388	0.82	406	0.87	430	0.93	469	1.06	514	1.23	552	1.37						
5880	2005	434	1.17	449	1.21	467	1.27	491	1.36	525	1.51	566	1.70	633	2.02				
6550	2233	480	1.61	494	1.66	508	1.71	525	1.78	548	1.89	578	2.05	650	2.46	707	2.80		
7220	2462	527	2.14	539	2.20	551	2.25	565	2.31	581	2.40	602	2.52	660	2.89	724	3.35	776	3.73
7890	2690	574	2.78	585	2.85	596	2.91	608	2.97	621	3.05	636	3.14	677	3.43	735	3.89	793	4.39
8560	2919	621	3.55	631	3.61	641	3.67	652	3.75	663	3.82	675	3.90	705	4.12	749	4.51	804	5.04
9230	3148	667	4.43	676	4.49	686	4.56	696	4.64	706	4.71	717	4.80	741	5.00	773	5.29		
9900	3376	714	5.45																

Performance shown is for Installation Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream. Power rating (BHP) does not include drive losses. Shaded area's available for DBX units only.

Direct Drive



Loren Cook Company certifies that the SQN-D and SQND-EC 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 SQN-D and SQND-EC is furnished standard with UL 705 Listing (Power Ventilator/ZACT) when furnished with factory supplied motor.

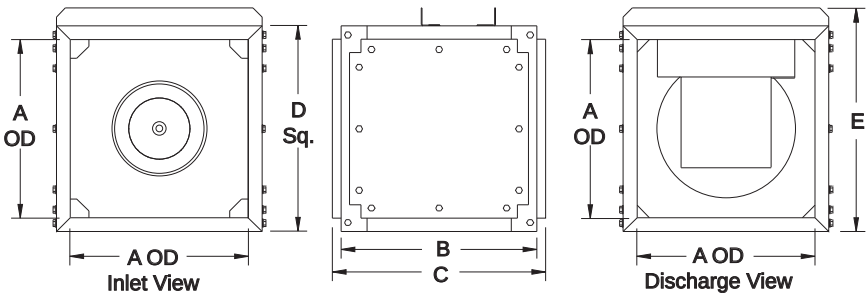
Type SQN-D and SQND-EC is furnished standard with cUL Listing (Power Ventilator) when furnished with factory supplied motor.

- Description:** Fan shall be duct mounted, direct driven centrifugal square inline.
- Certifications:** Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (CSA Standard 113 - M1984). Fan shall bear the AMCA Certified Ratings Seal for Sound and Air Performance.
- Construction:** The fan shall be of bolted construction utilizing corrosion resistant fasteners. Housing shall be minimum 18 gauge galvanized steel with integral duct collars. Bolted access doors shall be provided on three sides, sealed with closed cell neoprene gasketing. Housing shall be pre-drilled to accommodate universal mounting feet for vertical or horizontal installation. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM and static pressure. Unit shall be shipped in ISTA Certified Transit Tested Packaging.
- Wheel:** Wheel shall be centrifugal backward inclined, constructed of 100 percent aluminum, including a precision machined cast aluminum hub. An aerodynamic aluminum inlet cone shall be provided for maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.
- Motor:** Motor shall be heavy duty type with permanently lubricated sealed bearings and furnished at the specified voltage, phase and enclosure.
- Motor (SQN-D):** Motor shall be NEMA design B with a minimum of class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.
- Motor (SQND-EC):** Motor shall be an electronically commutated motor rated for continuous duty and furnished either with internally mounted potentiometer speed controller or with leads for connection to 0-10 VDC external controller.
- Product:** Fan shall be model SQN-D or SQND-EC as manufactured by Loren Cook Company of Springfield, Missouri.

Dimensions

Size	A	B	C	D Sq.	E	Inlet and Rear Discharge Duct Size (ID)	Optional Side Discharge Duct Size (WxH) (ID)	Approx. Ship Wt.*
70	10	12	14	12	13-9/16	10 sq.	6-1/8 x 6-15/16	70
90	12	15	17	14	15-9/16	12 sq.	9-1/8 x 8-15/16	90
100	12	20	22	14	15-9/16	12 sq.	14-1/8 x 8-15/16	100
120	16	20	22	18-7/16	20	16 sq.	14-1/8 x 12-9/16	125
135	18	20-1/4	22-1/4	20-3/4	22-5/16	18 sq.	14-1/4 x 13-1/8	150
150	20	21-7/8	23-7/8	23	25-1/16	20 sq.	15-15/16 x 16-1/8	175
165	22	25	27	25-5/16	27-3/8	22 sq.	19-1/8 x 18-1/8	200

All dimensions in inches.
*Weights in lbs, including motor.



Catalog Number	Max. Watts/ BHP	Nominal RPM	Motor HP	CFM vs. Static Pressure														
				0.0	0.100	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250	1.500	1.750	2.000	
70SQN10D	58W	1355	1/20	179	150	144	100	66										
70SQN12D	69W	1415	1/20	214	177	168	113	78										
70SQN15D	114W	1656	1/20	261	215	202	149	100										
90SQN10D	119W	1420	1/6	524	456	439	356	284	226	184								
90SQN12D	137W	1600	1/6	637	567	552	483	396	318	249								
90SQN15D	165W	1710	1/6	708	641	626	555	475	397	305								
100SQN10D	123W	1312	1/6	696	618	597	484	385	303	240								
100SQN12D	149W	1500	1/6	859	803	788	717	640	550	419	290							
100SQN15D	181W	1677	1/6	939	894	883	833	783	716	631	487							
120SQN10D	0.115 BHP	1145	1/6	1187	1108	1089	990	858										
*120SQN17D	0.39 BHP	1725	1/2	1776	1725	1712	1648	1586	1524	1456	1373	1278	1187					
135SQN10D	0.157 BHP	1102	1/6	1582	1443	1411	1273	1149	1004									
*135SQN17D	0.62 BHP	1725	3/4	2425	2365	2350	2276	2203	2133	2065	1999	1935	1871	1725				
150SQN10D	0.294 BHP	1103	1/3	2225	2111	2082	1930	1771	1613	1447								
*150SQN17D	1.15 BHP	1725	1	3421	3350	3332	3242	3151	3059	2966	2873	2781	2691	2511	2322			
165SQN10D	0.468 BHP	1114	1/2	2865	2756	2728	2594	2464	2330	2181	2016	1816						
*165SQN17D	1.81 BHP	1725	2	4381	4317	4301	4222	4143	4065	3989	3913	3839	3764	3608	3436	3243	3024	

Performance certified is for Installation Type B: Free inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). *These fans cannot be used with FSC speed controller.

Catalog Number	HP	Fan RPM	Tip Speed FPM	Max Watts	CFM vs. Static Pressure										
					0.0	0.100	0.125	0.250	0.375	0.500	0.625	0.750	0.875	1.000	1.250
70SQN17DEC	1/4	432	791	5	67										
		863	1581	12	133	47									
		1294	2371	25	200	135	120	53							
		1725	3160	49	266	212	201	147	103						
90SQN17DEC	1/4	432	1017	6	172										
		863	2033	22	343	230	202								
		1294	3048	50	515	442	424	325	206						
		1725	4064	129	686	631	613	550	475	403	315				
100SQN17DEC	1/4	462	1209	6	243										
		883	2311	24	474	394	370								
		1304	3413	62	700	650	637	561	456						
		1725	4516	134	926	889	880	829	772	712	632	495			
120SQN17DEC	1/2	462	1451	11	464										
		883	2774	54	887	787	764	593							
		1304	4096	158	1310	1238	1221	1143	1061	936					
		1725	5419	354	1733	1677	1664	1599	1540	1483	1421	1342	1239	1123	
135SQN17DEC	3/4	600	2120	35	881	694	640								
		975	3445	123	1432	1319	1291	1145	977						
		1350	4771	309	1983	1901	1881	1778	1675	1567	1448	1319	1103		
		1725	6096	630	2534	2470	2454	2374	2294	2213	2132	2048	1960	1866	1663

Performance certified is for Installation Type B: Free inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances (accessories). *These fans cannot be used with FSC speed controller.

Belt Drive

Description: Fan shall be duct mounted, belt driven centrifugal square inline.

Certifications: Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (CSA Standard 113 - M1984). Fan shall bear the AMCA Certified Ratings Seal for Sound and Air Performance.

Construction: The fan shall be of bolted construction utilizing corrosion resistant fasteners. Housing shall be minimum 18 gauge galvanized steel with integral duct collars. Bolted access doors shall be provided on three sides, sealed with closed cell neoprene gasketing. Pivoting motor plate shall utilize threaded L-bolt design for positive belt tensioning. Housing shall be pre-drilled to accommodate universal mounting feet for vertical or horizontal 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.

Wheel: Wheel shall be centrifugal backward inclined, constructed of 100% aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

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

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

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

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



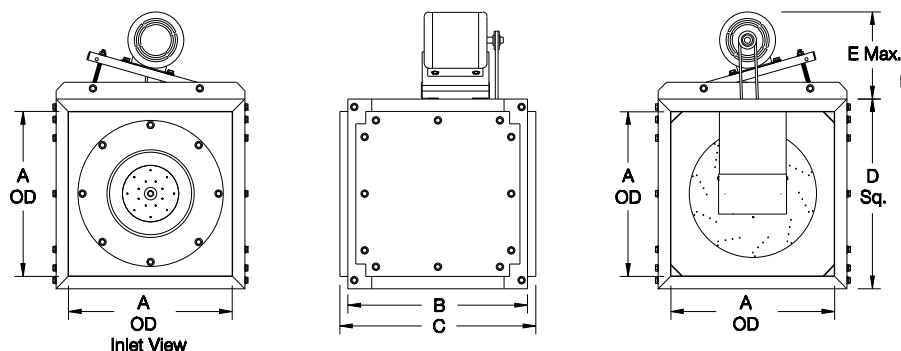
Loren Cook Company certifies that the SQN-B shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Type SQN-B is furnished standard with UL 705 Listing (Power Ventilator/ZACT) when furnished with factory supplied motor.



Type SQN-B is furnished standard with UL Listing (Power Ventilator) when furnished with factory supplied motor.



Dimensions

Size	A	B	C	D Sq.	E	Inlet and Rear Discharge Duct Size (ID)	Optional Side Discharge Duct Size (WxH) (ID)	Max. Mtr. Frame Size	Approx. Ship Wt.-Lbs. Less Motor and Drive
60	12	20	22	14	12-1/2	12 sq.	14-1/8 x 8-15/16	143T	80
70	12	20	22	14	12-1/2	12 sq.	14-1/8 x 8-15/16	143T	80
80	12	20	22	14	12-1/2	12 sq.	14-1/8 x 8-15/16	143T	80
100	12	20	22	14	12-1/2	12 sq.	14-1/8 x 8-15/16	143T	80
120	16	20	22	18-7/16	12-1/2	16 sq.	14-1/8 x 12-9/16	145T	100
135	18	20-1/4	22-1/4	20-3/4	12-1/2	18 sq.	14-1/4 x 13-1/8	145T	125
150	20	21-7/8	23-7/8	23	12-3/4	20 sq.	15-15/16 x 16-1/8	145T	150
165	22	25	27	25-5/16	14-3/4	22 sq.	19-1/8 x 18-1/8	182T	175
180	24	28	30	27-5/8	14-3/4	24 sq.	21 x 20-1/8	182T	200
195	26	30-1/4	32-1/4	29-15/16	15	26 sq.	23-1/4 x 22-1/8	182T	225
210	28	32	35	31-1/4	15	28 sq.	24-1/2 x 24-1/8	182T	250
225	30	34-1/4	37-1/4	33-1/2	15-1/4	30 sq.	26-3/4 x 26-1/8	184T	300
245	33	34	38	36	17-1/4	33 sq.	26-1/16 x 29-1/8	213T	350
270	36-7/16	37-1/2	41-1/2	39-11/16	17-1/4	36-7/16 sq.	29-11/16 x 32-1/2	213T	400
300	40	38	42	44	17-1/4	40 sq.	30-1/8 x 36-1/8	213T	450
330	44	41-3/4	45-3/4	48-7/16	17-1/4	44 sq.	31-3/16 x 40-1/8	215T	500
365	46	42	46	50	17-1/4	46 sq.	32-3/16 x 42-1/16	215T	550
402	50-3/4	46-1/4	50-1/4	55-1/8	17-1/4	50-3/4 sq.	36-5/16 x 46-15/16	215T	650

All dimensions in inches.

SQN-B Performance Data

60 SQN-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
35	35	768	.01	1030	.01	1403	.04	1697	.06	1946	.09								
55	55	849	.01	1108	.02	1479	.05	1761	.07	2002	.11	2414	.18	2766	.27	3077	.36	3359	.47
75	75	952	.01	1189	.03	1556	.06	1841	.09	2080	.12	2481	.20	2822	.29	3128	.40	3406	.50
95	95	1069	.02	1283	.03	1636	.07	1918	.11	2158	.15	2560	.23	2897	.33	3195	.44	3467	.55
115	115	1182	.02	1399	.04	1719	.08	1998	.12	2236	.17	2638	.27	2977	.37	3274	.48	3543	.60
135	135	1310	.03	1516	.05	1817	.09	2081	.14	2316	.19	2715	.30	3055	.42	3354	.54	3623	.66
155	155	1448	.05	1627	.06	1933	.11	2171	.15	2399	.21	2795	.33	3132	.46	3431	.59	3701	.73
175	175	1587	.06	1749	.08	2052	.13	2280	.18	2488	.23	2877	.36	3211	.50	3508	.65	3778	.80
195	195	1726	.08	1880	.10	2166	.15	2398	.21	2592	.26	2960	.39	3292	.54	3587	.70		
215	215	1863	.10	2018	.12	2277	.18	2518	.24	2709	.30	3051	.43	3375	.58	3669	.74		
235	235	1998	.12	2157	.15	2395	.21	2632	.27	2828	.34	3154	.47	3461	.62	3751	.79		
255	255	2132	.15	2296	.18	2521	.24	2742	.31	2946	.38	3268	.52	3556	.67				
275	275	2265	.18	2435	.22	2654	.28	2856	.35	3060	.43	3387	.58	3662	.74				
295	295	2399	.21	2573	.26	2791	.33	2976	.40	3170	.48	3507	.65	3777	.81				
315	315	2533	.24	2709	.30	2930	.38	3105	.45	3283	.53	3624	.71						
335	335	2667	.28	2844	.35	3069	.43	3238	.51	3403	.59	3737	.78						
355	355	2803	.33	2978	.40	3208	.49	3376	.58	3530	.66								
375	375	2939	.38	3112	.46	3348	.56	3514	.65	3661	.74								
395	395	3077	.43	3244	.52	3486	.64	3652	.73	3795	.82								
415	415	3215	.49	3379	.58	3624	.72	3792	.82										

70 SQN-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
140	140	991	.02	1199	.03	1514	.06	1776	.10	2012	.14								
170	170	1105	.02	1302	.04	1605	.07	1851	.11	2069	.15	2462	.25						
200	200	1227	.03	1410	.05	1703	.08	1940	.12	2148	.17	2517	.27	2849	.39				
230	230	1352	.04	1522	.06	1805	.10	2036	.14	2237	.19	2589	.30	2904	.42	3195	.55		
260	260	1478	.05	1642	.08	1911	.12	2136	.17	2332	.22	2674	.32	2975	.45	3253	.59	3514	.74
290	290	1603	.07	1764	.09	2020	.14	2240	.19	2432	.24	2765	.36	3058	.49	3325	.63	3575	.78
320	320	1730	.09	1890	.11	2133	.16	2346	.22	2535	.28	2862	.40	3147	.53	3407	.67	3648	.83
350	350	1858	.11	2015	.14	2250	.19	2455	.25	2640	.31	2961	.44	3241	.58	3495	.72	3730	.88
380	380	1987	.13	2141	.17	2371	.23	2567	.29	2746	.35	3063	.49	3339	.63	3588	.78	3818	.95
410	410	2117	.16	2267	.20	2495	.26	2682	.33	2856	.40	3167	.54	3439	.69	3684	.85	3910	1.01
440	440	2249	.19	2393	.23	2620	.31	2801	.37	2968	.44	3273	.60	3541	.76	3783	.92	4006	1.09
470	470	2383	.23	2520	.27	2745	.35	2923	.42	3084	.50	3381	.66	3645	.82	3884	1.00		
500	500	2516	.27	2649	.32	2871	.40	3046	.48	3203	.56	3490	.72	3751	.90	3987	1.08		
530	530	2652	.32	2778	.36	2997	.46	3171	.54	3324	.62	3602	.79	3858	.98				
560	560	2788	.37	2908	.42	3123	.52	3297	.61	3447	.70	3716	.87	3966	1.06				
590	590	2922	.42	3040	.48	3249	.58	3423	.68	3571	.77	3833	.96						
620	620	3060	.49	3171	.54	3375	.65	3548	.76	3695	.86	3953	1.05						
650	650	3199	.56	3304	.61	3502	.73	3674	.84	3821	.95								
680	680	3336	.63	3438	.69	3630	.81	3800	.93	3947	1.05								
710	710	3472	.71	3571	.77	3758	.90	3926	1.03										

80 SQN-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
495	495	1280	.05	1417	.08	1661	.12	1840	.17	1999	.22								
540	540	1369	.06	1500	.09	1732	.14	1921	.19	2070	.25								
585	585	1460	.08	1586	.10	1804	.16	1999	.22	2149	.27								
630	630	1552	.09	1672	.12	1880	.18	2072	.24	2230	.30	2484	.43						
675	675	1644	.11	1760	.14	1959	.20	2143	.27	2307	.33	2558	.46						
720	720	1738	.13	1849	.16	2041	.23	2215	.29	2381	.36	2638	.50	2856	.65				
765	765	1831	.15	1939	.18	2124	.25	2291	.32	2452	.40	2719	.55	2930	.70				
810	810	1926	.18	2030	.21	2209	.28	2370	.36	2523	.43	2798	.59	3008	.75	3201	.92		
855	855	2020	.21	2121	.24	2295	.31	2450	.39	2598	.47	2872	.64	3089	.80	3275	.97		
900	900	2116	.24	2214	.27	2382	.35	2532	.43	2675	.51	2944	.69	3169	.86	3353	1.04		
945	945	2212	.27	2305	.31	2470	.39	2617	.47	2754	.56	3015	.74	3247	.92				
990	990	2307	.31	2399	.34	2559	.43	2702	.52	2834	.61	3087	.79	3321	.99				
1035	1035	2404	.35	2492	.39	2648	.47	2787	.56	2916	.66	3161	.85	3393	1.05				
1080	1080	2502	.39	2586	.43	2739	.52	2875	.61	3001	.71	3237	.91						
1125	1125	2599	.44	2681	.48	2829	.57	2962	.67	3085	.77	3314	.98						
1170	1170	2695	.49	2775	.53	2921	.63	3050	.73	3171	.83	3395	1.05						
1215	1215	2791	.54	2869	.59	3011	.69	3140	.79	3257	.90								
1260	1260	2888	.60	2966	.65	3104	.75	3228	.85	3344	.97								
1305	1305	2988	.67	3062	.72	3196	.82	3319	.93	3432	1.04								
1350	1350	3087	.73	3157	.78	3288	.89	3409	1.00										

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). Underlined figures indicate point of maximum static efficiency.

100 SQN-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
740	740	1459	.09	1566	.12	1768	.18	1950	.24	2123	.31								
785	785	1534	.11	1637	.13	1828	.19	2007	.26	2170	.33								
830	830	1610	.12	1709	.15	1890	.21	2065	.28	2222	.35								
875	875	1685	.14	1781	.17	1954	.23	2124	.31	2277	.38								
920	920	1762	.16	1855	.19	2020	.26	2183	.33	2335	.41	2614	.57						
965	965	1838	.18	1929	.22	2088	.28	2244	.36	2393	.44	2661	.61						
1010	1010	1914	.21	2004	.24	2157	.31	2306	.39	2452	.47	2713	.64						
1055	1055	1992	.23	2077	.27	2228	.34	2370	.42	2512	.50	2768	.68	3011	.87				
1100	1100	2070	.26	2153	.30	2299	.37	2435	.45	2572	.54	2825	.72	3057	.92				
1145	1145	2148	.29	2229	.33	2370	.40	2502	.48	2634	.58	2883	.77	3108	.97				
1190	1190	2225	.32	2303	.36	2443	.44	2570	.52	2697	.61	2941	.81	3161	1.02				
1235	1235	2302	.36	2379	.40	2515	.48	2639	.56	2760	.66	3000	.86	3217	1.07				
1280	1280	2380	.40	2456	.44	2589	.52	2709	.61	2826	.70	3060	.91						
1325	1325	2460	.44	2533	.48	2662	.57	2780	.66	2893	.75	3120	.96						
1370	1370	2540	.48	2609	.52	2737	.61	2852	.71	2961	.80	3181	1.02						
1415	1415	2619	.53	2684	.57	2812	.67	2923	.76	3031	.86	3243	1.07						
1460	1460	2699	.58	2761	.62	2886	.72	2996	.81	3100	.91								
1505	1505	2778	.63	2840	.67	2959	.77	3069	.87	3171	.97								
1550	1550	2857	.68	2918	.73	3035	.83	3142	.93	3242	1.04								
1595	1595	2936	.74	2996	.79	3111	.90	3216	1.00										

120 SQN-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
950	533	1051	.08	1150	.11	1290	.17	1431	.23										
1035	581	1127	.10	1222	.13	1361	.19	1484	.26	1622	.34								
1120	629	1205	.12	1294	.15	1434	.22	1546	.29	1665	.37								
1205	676	1282	.14	1367	.18	1507	.25	1614	.33	1720	.40								
1290	724	1362	.17	1440	.20	1581	.28	1686	.36	1782	.45	1997	.63						
1375	772	1441	.20	1515	.24	1654	.32	1759	.41	1851	.49	2042	.68						
1460	820	1522	.23	1591	.27	1725	.36	1833	.45	1922	.54	2096	.73	2292	.95				
1545	867	1603	.27	1668	.31	1797	.40	1906	.50	1994	.60	2157	.79	2334	1.01				
1630	915	1684	.31	1746	.36	1869	.45	1979	.55	2068	.66	2223	.86	2383	1.08	2562	1.33		
1715	963	1764	.36	1824	.40	1942	.50	2052	.61	2141	.72	2292	.93	2440	1.15	2602	1.40		
1800	1011	1846	.41	1904	.46	2015	.56	2123	.67	2215	.79	2364	1.01	2502	1.24	2651	1.48		
1885	1058	1930	.46	1983	.51	2089	.62	2195	.74	2288	.86	2436	1.09	2569	1.33	2705	1.57		
1970	1106	2013	.53	2061	.58	2165	.69	2267	.81	2360	.93	2509	1.18	2638	1.42				
2055	1154	2095	.59	2143	.64	2241	.76	2339	.88	2432	1.01	2584	1.27	2709	1.52				
2140	1202	2178	.66	2224	.72	2318	.84	2412	.96	2504	1.10	2657	1.37	2781	1.63				
2225	1250	2260	.74	2305	.80	2396	.92	2486	1.05	2576	1.19	2730	1.47						
2310	1297	2342	.82	2386	.88	2473	1.01	2560	1.14	2648	1.28	2803	1.57						
2395	1345	2423	.91	2466	.97	2550	1.10	2636	1.24	2720	1.39								
2480	1393	2504	1.00	2547	1.07	2631	1.21	2712	1.35	2793	1.49								
2565	1441	2589	1.11	2630	1.18	2710	1.32	2787	1.46	2867	1.61								

135 SQN-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1275	566	1012	.13	1085	.16	1217	.24	1329	.32	1437	.41								
1360	604	1068	.15	1139	.19	1266	.27	1377	.36	1475	.44								
1445	642	1127	.17	1193	.21	1315	.30	1424	.39	1520	.48								
1530	680	1185	.20	1249	.24	1366	.33	1472	.43	1567	.53								
1615	717	1244	.23	1305	.27	1417	.37	1521	.47	1615	.57	1783	.78						
1700	755	1303	.26	1361	.31	1469	.41	1570	.51	1663	.62	1824	.84						
1785	793	1361	.29	1418	.35	1522	.45	1620	.56	1711	.67	1870	.90						
1870	831	1421	.33	1475	.39	1576	.50	1670	.61	1759	.72	1917	.96	2061	1.21				
1955	868	1481	.37	1533	.43	1631	.55	1722	.66	1808	.78	1964	1.03	2103	1.28				
2040	906	1541	.42	1591	.48	1685	.60	1773	.72	1858	.84	2012	1.10	2148	1.36	2281	1.64		
2125	944	1600	.47	1649	.53	1741	.66	1826	.78	1908	.91	2061	1.18	2194	1.45				
2210	982	1659	.52	1707	.59	1796	.72	1880	.85	1959	.98	2109	1.25	2242	1.54				
2295	1020	1720	.57	1767	.65	1853	.78	1933	.92	2011	1.05	2157	1.34	2290	1.63				
2380	1057	1781	.64	1826	.71	1909	.85	1988	.99	2063	1.13	2206	1.42						
2465	1095	1842	.70	1884	.78	1966	.93	2042	1.07	2116	1.21	2256	1.51						
2550	1133	1903	.77	1942	.85	2023	1.00	2098	1.15	2169	1.30	2305	1.60						
2635	1171	1964	.85	2003	.93	2080	1.09	2153	1.24	2223	1.39								
2720	1208	2025	.93	2063	1.01	2137	1.17	2208	1.33	2277	1.49								
2805	1246	2085	1.01	2123	1.10	2196	1.27	2265	1.43	2332	1.59								
2890	1284	2146	1.10	2183	1.19	2254	1.36	2322	1.54										

Performance certified for Installation Type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Underlined figures indicate point of maximum static efficiency.

SQN-B Performance Data

150 SQN-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1680	604	835	.13	911	.18	1050	.28	1177	.39	1303	.51								
1810	651	888	.16	959	.21	1091	.31	1212	.43	1329	.55								
1940	697	942	.19	1008	.24	1135	.35	1249	.47	1360	.60								
2070	744	996	.22	1059	.28	1179	.39	1289	.52	1394	.65	1599	.94						
2200	791	1051	.26	1110	.32	1225	.44	1331	.57	1431	.71	1624	1.00						
2330	838	1107	.30	1162	.36	1272	.49	1374	.63	1470	.77	1654	1.07						
2460	884	1163	.35	1215	.41	1319	.54	1418	.69	1511	.83	1687	1.14	1859	1.49				
2590	931	1218	.40	1268	.46	1368	.60	1464	.75	1553	.91	1722	1.22	1886	1.57				
2720	978	1275	.45	1322	.52	1417	.67	1510	.82	1597	.98	1760	1.31	1917	1.67	2073	2.06		
2850	1025	1332	.51	1376	.58	1467	.74	1556	.90	1641	1.06	1799	1.41	1950	1.77	2099	2.16		
2980	1071	1388	.58	1431	.65	1518	.81	1604	.98	1686	1.15	1840	1.51	1986	1.88				
3110	1118	1444	.65	1486	.73	1569	.89	1652	1.06	1732	1.24	1882	1.61	2023	1.99				
3240	1165	1501	.73	1541	.81	1621	.98	1701	1.16	1779	1.34	1925	1.72	2062	2.12				
3370	1212	1559	.82	1598	.90	1674	1.07	1750	1.25	1826	1.44	1969	1.84						
3500	1258	1617	.91	1653	.99	1726	1.17	1801	1.36	1874	1.56	2013	1.96						
3630	1305	1674	1.01	1708	1.09	1780	1.28	1851	1.47	1922	1.67	2058	2.09						
3760	1352	1732	1.12	1765	1.20	1834	1.39	1903	1.59	1971	1.80								
3890	1399	1790	1.23	1822	1.32	1887	1.51	1954	1.72	2021	1.93								
4020	1446	1847	1.35	1879	1.45	1942	1.64	2006	1.85	2071	2.07								
4150	1492	1904	1.48	1935	1.58	1997	1.78	2059	1.99										

165 SQN-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1750	520	704	.13	777	.18	889	.28	1018	.41	1150	.55								
1950	580	770	.16	835	.22	944	.33	1046	.45	1168	.61								
2150	639	837	.21	894	.26	1003	.39	1090	.51	1192	.67	1409	1.01						
2350	699	905	.26	956	.32	1063	.46	1145	.59	1228	.73	1426	1.10						
2550	758	975	.32	1020	.38	1121	.54	1204	.68	1276	.82	1448	1.18	1632	1.60				
2750	818	1045	.39	1086	.46	1179	.62	1264	.78	1333	.93	1478	1.28	1651	1.71	1816	2.16		
2950	877	1114	.47	1153	.54	1238	.71	1323	.89	1392	1.05	1520	1.39	1673	1.83	1833	2.30		
3150	937	1185	.57	1222	.64	1298	.80	1381	1.00	1452	1.18	1570	1.53	1702	1.95	1853	2.45	2001	2.96
3350	996	1257	.67	1289	.75	1360	.92	1439	1.12	1511	1.32	1627	1.69	1742	2.09	1877	2.59	2020	3.13
3550	1056	1328	.79	1359	.87	1425	1.04	1497	1.25	1569	1.47	1686	1.87	1790	2.27	1909	2.75	2041	3.30
3750	1115	1399	.92	1429	1.00	1490	1.18	1557	1.39	1627	1.63	1746	2.07	1845	2.48	1948	2.93		
3950	1175	1470	1.07	1499	1.15	1557	1.34	1619	1.56	1685	1.79	1806	2.27	1902	2.70	1996	3.15		
4150	1234	1540	1.22	1568	1.32	1623	1.51	1681	1.73	1744	1.97	1865	2.49	1962	2.95				
4350	1294	1612	1.40	1638	1.49	1692	1.70	1746	1.92	1804	2.17	1923	2.71	2022	3.21				
4550	1353	1683	1.59	1710	1.70	1760	1.91	1810	2.13	1866	2.38	1980	2.94						
4750	1413	1755	1.80	1782	1.92	1828	2.12	1877	2.36	1927	2.60	2038	3.18						
4950	1472	1827	2.03	1853	2.15	1897	2.36	1944	2.60	1992	2.86								
5150	1532	1900	2.28	1925	2.41	1967	2.63	2010	2.86	2057	3.13								
5350	1591	1972	2.55	1996	2.68	2037	2.91	2079	3.16										
5550	1651	2044	2.83	2066	2.96	2107	3.21												

180 SQN-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2200	550	650	.15	712	.21	845	.35	954	.50	1074	.67								
2400	600	698	.19	754	.25	880	.39	983	.55	1088	.73								
2600	650	747	.23	799	.29	912	.44	1018	.61	1109	.79	1308	1.20						
2800	700	796	.27	846	.34	946	.50	1054	.67	1140	.86	1323	1.28						
3000	750	846	.32	893	.40	984	.56	1087	.74	1175	.94	1338	1.36	1511	1.85				
3200	800	895	.38	940	.46	1025	.63	1120	.82	1211	1.02	1360	1.45	1525	1.95				
3400	850	946	.44	989	.53	1068	.71	1154	.90	1245	1.11	1391	1.56	1539	2.06	1693	2.62		
3600	900	996	.52	1037	.60	1113	.79	1190	.99	1278	1.22	1426	1.68	1559	2.18	1707	2.74		
3800	950	1046	.59	1087	.69	1159	.89	1230	1.09	1310	1.32	1462	1.80	1586	2.31	1721	2.88		
4000	1000	1098	.69	1136	.78	1205	.99	1273	1.21	1345	1.43	1497	1.93	1619	2.46	1740	3.03		
4200	1050	1149	.78	1186	.89	1253	1.10	1316	1.32	1382	1.56	1531	2.08	1654	2.61	1766	3.19		
4400	1100	1200	.89	1235	1.00	1300	1.22	1361	1.45	1423	1.69	1563	2.22	1690	2.78				
4600	1150	1251	1.00	1285	1.12	1348	1.35	1406	1.59	1465	1.84	1596	2.38	1725	2.96				
4800	1200	1302	1.13	1336	1.25	1397	1.49	1453	1.74	1508	1.99	1630	2.55	1759	3.14				
5000	1250	1355	1.27	1386	1.39	1445	1.64	1499	1.89	1553	2.16	1666	2.73						
5200	1300	1407	1.42	1436	1.54	1494	1.80	1548	2.07	1598	2.34	1704	2.92						
5400	1350	1459	1.58	1487	1.71	1543	1.97	1595	2.25	1645	2.53	1745	3.12						
5600	1400	1511	1.76	1538	1.88	1592	2.16	1643	2.44	1691	2.73								
5800	1450	1563	1.94	1590	2.08	1642	2.36	1692	2.65	1738	2.95								
6000	1500	1614	2.14	1641	2.28	1692	2.57	1740	2.87	1786	3.18								

Performance certified is for Installation Type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Underlined figures indicate point of maximum static efficiency. **Shaded area indicates reinforced wheel required.**

195 SQN-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2450	522	575	.16	636	.23	761	.38	871	.56										
2700	575	622	.20	676	.27	797	.43	893	.61	998	.82								
2950	628	670	.24	720	.32	829	.49	925	.68	1014	.89								
3200	682	718	.30	765	.38	862	.56	961	.76	1041	.98	1217	1.47						
3450	735	767	.36	811	.45	897	.63	995	.85	1075	1.07	1230	1.57						
3700	788	816	.43	858	.52	937	.72	1027	.94	1110	1.17	1250	1.68	1405	2.26				
3950	842	865	.51	905	.60	979	.81	1060	1.04	1144	1.29	1279	1.81	1419	2.40	1560	3.04		
4200	895	915	.60	953	.70	1023	.92	1095	1.16	1176	1.41	1313	1.95	1437	2.54	1575	3.21		
4450	948	964	.69	1001	.80	1068	1.03	1134	1.28	1209	1.55	1348	2.11	1463	2.71				
4700	1002	1015	.81	1049	.92	1113	1.16	1176	1.42	1243	1.69	1383	2.27	1495	2.89				
4950	1055	1065	.93	1098	1.05	1160	1.30	1218	1.56	1279	1.84	1416	2.45	1530	3.09				
5200	1108	1115	1.06	1147	1.19	1207	1.45	1263	1.73	1319	2.01	1448	2.64	1565	3.29				
5450	1162	1165	1.21	1196	1.34	1254	1.62	1308	1.90	1361	2.20	1480	2.84						
5700	1215	1216	1.37	1246	1.51	1302	1.80	1353	2.09	1404	2.39	1514	3.05						
5950	1268	1267	1.55	1296	1.69	1349	1.98	1400	2.29	1448	2.61	1550	3.28						
6200	1321	1319	1.75	1345	1.89	1398	2.20	1447	2.51	1493	2.84								
6450	1375	1370	1.95	1395	2.10	1446	2.42	1493	2.74	1539	3.08								
6700	1428	1421	2.18	1446	2.33	1494	2.65	1541	3.00										
6950	1481	1472	2.42	1496	2.58	1544	2.92	1589	3.27										
7200	1535	1522	2.67	1546	2.84	1593	3.19												

210 SQN-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2850	523	536	.18	600	.27	701	.44	802	.65	901	.89								
3100	569	571	.22	633	.31	730	.50	821	.70	914	.95								
3350	615	607	.27	666	.36	760	.56	844	.77	930	1.01								
3600	661	644	.32	700	.41	792	.63	871	.85	949	1.08	1109	1.68						
3850	707	682	.38	733	.47	824	.70	900	.94	973	1.18	1123	1.77						
4100	753	720	.44	767	.54	858	.78	930	1.03	999	1.28	1139	1.86	1278	2.56				
4350	799	759	.52	802	.62	891	.86	962	1.13	1028	1.40	1158	1.97	1291	2.67				
4600	845	798	.60	838	.71	924	.95	995	1.24	1058	1.53	1180	2.09	1306	2.79				
4850	891	837	.69	875	.80	957	1.06	1027	1.35	1089	1.66	1206	2.25	1323	2.92				
5100	937	877	.80	912	.91	991	1.17	1061	1.47	1121	1.79	1233	2.42	1343	3.07				
5350	983	917	.91	950	1.02	1024	1.29	1094	1.60	1153	1.93	1261	2.59	1367	3.26				
5600	1029	956	1.03	988	1.15	1058	1.42	1127	1.73	1186	2.08	1291	2.78						
5850	1075	996	1.16	1027	1.29	1092	1.56	1161	1.89	1219	2.23	1322	2.97						
6100	1121	1036	1.30	1066	1.44	1127	1.72	1194	2.05	1253	2.41	1354	3.17						
6350	1167	1077	1.46	1105	1.60	1163	1.89	1227	2.22	1286	2.58								
6600	1213	1118	1.63	1143	1.77	1199	2.07	1260	2.40	1320	2.78								
6850	1259	1158	1.81	1183	1.96	1236	2.26	1294	2.60	1353	2.98								
7100	1305	1199	2.01	1223	2.16	1273	2.47	1329	2.82	1386	3.20								
7350	1351	1239	2.22	1263	2.37	1311	2.69	1364	3.05										
7600	1397	1279	2.44	1302	2.60	1349	2.93	1399	3.29										

225 SQN-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3250	520	498	.21	558	.30	653	.50	747	.74	841	1.02								
3600	576	538	.26	595	.36	685	.59	769	.81	855	1.10								
3950	632	579	.33	633	.43	720	.67	797	.92	874	1.19								
4300	688	622	.41	671	.51	757	.77	829	1.04	899	1.31	1043	1.99						
4650	744	665	.49	710	.61	794	.87	863	1.17	928	1.45	1060	2.11	1191	2.91				
5000	800	710	.60	750	.71	832	.99	899	1.31	960	1.61	1081	2.26	1206	3.07				
5350	856	754	.72	791	.84	870	1.12	936	1.45	994	1.79	1107	2.44	1223	3.24	1338	4.16		
5700	912	799	.85	833	.98	908	1.27	973	1.61	1030	1.97	1137	2.67	1244	3.43	1353	4.36	1459	5.35
6050	968	844	1.00	876	1.13	946	1.43	1011	1.78	1067	2.16	1169	2.91	1269	3.67	1371	4.57		
6400	1024	889	1.16	919	1.31	984	1.61	1049	1.97	1104	2.37	1203	3.17	1297	3.95	1392	4.81		
6750	1080	934	1.35	963	1.50	1023	1.81	1087	2.18	1142	2.59	1238	3.44	1328	4.26	1417	5.11		
7100	1136	980	1.56	1007	1.71	1063	2.03	1125	2.41	1180	2.83	1274	3.71	1361	4.59	1445	5.46		
7450	1192	1027	1.79	1051	1.94	1104	2.28	1163	2.66	1218	3.09	1311	4.01	1395	4.94				
7800	1248	1073	2.04	1096	2.19	1146	2.55	1201	2.93	1256	3.37	1348	4.31	1430	5.29				
8150	1304	1119	2.31	1141	2.47	1188	2.83	1240	3.23	1294	3.67	1386	4.64						
8500	1360	1164	2.59	1187	2.78	1231	3.15	1280	3.55	1331	3.99	1424	4.99						
8850	1416	1210	2.91	1232	3.10	1275	3.49	1321	3.90	1370	4.35	1462	5.36						
9200	1472	1256	3.25	1276	3.44	1318	3.85	1361	4.27	1409	4.74								
9550	1528	1301	3.61	1321	3.81	1362	4.24	1404	4.68	1448	5.14								
9900	1584	1348	4.02	1368	4.23	1407	4.67	1446	5.11										

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). Underlined figures indicate point of maximum static efficiency. **Shaded area indicates reinforced wheel required.**

SQN-B Performance Data

245 SQN-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4200	555	473	.29	529	.41	617	.66	702	.95										
4700	621	517	.37	568	.51	652	.77	728	1.08	805	1.42								
5200	687	562	.47	608	.62	690	.92	759	1.22	828	1.58	964	2.37						
5700	753	608	.59	649	.75	729	1.08	794	1.40	857	1.76	983	2.58						
6200	820	655	.73	692	.90	769	1.27	832	1.61	890	1.97	1006	2.82	1120	3.75				
6700	886	703	.89	736	1.07	808	1.46	871	1.84	926	2.21	1033	3.07	1140	4.04	1244	5.08		
7200	952	751	1.08	781	1.27	848	1.69	910	2.10	964	2.50	1064	3.37	1163	4.35	1263	5.44		
7700	1018	799	1.30	827	1.49	888	1.93	950	2.39	1003	2.81	1098	3.70	1190	4.70	1284	5.81	1376	6.98
8200	1084	848	1.54	874	1.75	930	2.20	989	2.69	1042	3.15	1134	4.07	1221	5.08	1308	6.21	1396	7.42
8700	1150	896	1.81	920	2.02	973	2.50	1029	3.02	1082	3.53	1171	4.48	1254	5.51	1336	6.65	1419	7.89
9200	1216	945	2.11	968	2.34	1016	2.83	1069	3.37	1121	3.92	1210	4.94	1290	5.99	1367	7.14		
9700	1283	995	2.46	1016	2.69	1061	3.20	1110	3.75	1161	4.34	1249	5.43	1326	6.50	1401	7.68		
10200	1349	1044	2.84	1063	3.07	1106	3.60	1152	4.17	1200	4.78	1289	5.97	1364	7.07				
10700	1415	1093	3.25	1112	3.50	1152	4.04	1195	4.63	1240	5.25	1328	6.52	1403	7.70				
11200	1481	1142	3.70	1161	3.97	1198	4.52	1239	5.13	1282	5.78	1368	7.12						
11700	1547	1191	4.18	1209	4.46	1245	5.04	1283	5.66	1324	6.34	1407	7.73						
12200	1613	1239	4.70	1257	4.99	1291	5.59	1328	6.25	1367	6.94								
12700	1679	1289	5.28	1306	5.59	1339	6.21	1374	6.88	1410	7.58								
13200	1746	1338	5.90	1355	6.23	1387	6.88	1419	7.54										
13700	1812	1387	6.56	1405	6.93	1434	7.57												

270 SQN-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5100	555	430	.35	480	.50	560	.80	637	1.15										
5600	610	462	.43	509	.60	586	.91	656	1.28	727	1.69								
6100	664	495	.53	539	.70	614	1.05	679	1.42	743	1.84								
6600	718	529	.63	569	.82	643	1.20	704	1.58	763	2.01	883	3.00						
7100	773	564	.76	600	.96	672	1.37	731	1.77	786	2.20	898	3.22						
7600	827	600	.91	632	1.11	701	1.56	759	1.98	811	2.42	915	3.45	1019	4.60				
8100	882	635	1.07	665	1.28	731	1.76	788	2.22	838	2.67	935	3.70	1033	4.88				
8600	936	671	1.26	699	1.48	760	1.98	817	2.47	866	2.94	958	3.99	1050	5.19	1142	6.50		
9100	991	707	1.46	733	1.69	791	2.22	847	2.75	895	3.25	983	4.31	1069	5.52	1157	6.87		
9600	1045	743	1.69	768	1.93	821	2.47	876	3.04	924	3.57	1009	4.66	1091	5.89	1174	7.26		
10100	1100	779	1.94	802	2.19	853	2.75	906	3.35	954	3.93	1037	5.05	1115	6.29	1193	7.67		
10600	1154	815	2.21	837	2.47	885	3.06	935	3.68	983	4.30	1065	5.47	1140	6.73	1214	8.11		
11100	1209	852	2.52	873	2.79	917	3.38	966	4.04	1013	4.70	1094	5.93	1166	7.19				
11600	1263	889	2.86	909	3.14	951	3.75	996	4.41	1042	5.10	1123	6.41	1194	7.72				
12100	1318	926	3.22	944	3.50	984	4.13	1027	4.82	1072	5.55	1152	6.92						
12600	1372	963	3.62	980	3.90	1018	4.55	1059	5.26	1102	6.01	1182	7.48						
13100	1427	1000	4.04	1017	4.35	1052	4.99	1091	5.72	1132	6.49	1211	8.03						
13600	1481	1036	4.48	1053	4.81	1087	5.48	1124	6.23	1163	7.01								
14100	1535	1073	4.97	1089	5.30	1122	6.00	1157	6.76	1194	7.56								
14600	1590	1109	5.48	1125	5.83	1157	6.55	1190	7.32	1226	8.15								

300 SQN-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6400	576	396	.46	436	.64	509	1.01	579	1.47	643	1.93								
6900	621	422	.55	458	.73	527	1.12	593	1.59	655	2.09								
7400	666	447	.65	480	.84	547	1.26	609	1.73	669	2.26								
7900	711	473	.76	504	.96	567	1.41	626	1.88	683	2.43	789	3.58						
8400	756	499	.89	528	1.10	588	1.57	644	2.05	699	2.61	801	3.82						
8900	801	525	1.03	553	1.25	609	1.74	663	2.24	715	2.80	814	4.07						
9400	846	553	1.19	578	1.42	631	1.93	683	2.46	733	3.02	829	4.33	918	5.70				
9900	891	579	1.36	603	1.60	653	2.12	704	2.69	751	3.25	843	4.57	930	6.01				
10400	936	606	1.56	629	1.80	676	2.34	725	2.94	771	3.53	859	4.85	944	6.35	1024	7.89		
10900	981	632	1.76	655	2.02	700	2.58	746	3.19	791	3.82	876	5.15	958	6.69				
11400	1026	660	2.00	681	2.26	724	2.84	768	3.47	811	4.12	893	5.46	973	7.03				
11900	1071	687	2.25	707	2.52	748	3.11	790	3.77	832	4.44	911	5.80	989	7.40				
12400	1116	715	2.53	733	2.80	773	3.42	813	4.09	854	4.80	930	6.18	1005	7.77				
12900	1161	742	2.82	760	3.10	798	3.74	836	4.42	875	5.15	950	6.60	1022	8.18				
13400	1206	770	3.15	787	3.44	822	4.07	860	4.79	897	5.53	970	7.04						
13900	1251	797	3.48	814	3.79	848	4.45	883	5.16	920	5.94	991	7.51						
14400	1296	824	3.84	841	4.17	874	4.85	908	5.58	943	6.37	1012	8.00						
14900	1341	851	4.22	867	4.55	899	5.25	932	6.01	965	6.80								
15400	1386	878	4.63	894	4.98	925	5.70	957	6.47	989	7.29								
15900	1431	905	5.06	921	5.43	952	6.19	982	6.96	1012	7.77								

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Underlined figures indicate point of maximum static efficiency. **Shaded area indicates reinforced wheel required.**

330 SQL-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7700	572	359	.55	394	.76	462	1.22	525	1.76	584	2.33								
8400	625	385	.67	418	.90	481	1.38	541	1.95	597	2.56								
9100	677	412	.81	442	1.05	501	1.56	557	2.13	611	2.79								
9800	729	440	.98	467	1.23	523	1.78	575	2.35	626	3.02	722	4.46						
10500	781	467	1.17	492	1.42	545	2.01	595	2.61	643	3.28	735	4.79						
11200	833	495	1.38	519	1.65	568	2.26	616	2.90	661	3.57	749	5.13	831	6.78				
11900	885	524	1.63	546	1.91	591	2.54	637	3.21	681	3.91	765	5.50	844	7.22				
12600	937	552	1.90	572	2.18	615	2.84	659	3.55	701	4.27	781	5.87	858	7.68	931	9.55		
13300	989	579	2.18	600	2.50	640	3.18	682	3.93	722	4.67	799	6.29	873	8.16	944	10.10		
14000	1041	608	2.51	627	2.84	665	3.54	705	4.32	744	5.12	818	6.76	889	8.65	958	10.70		
14700	1093	637	2.88	655	3.22	691	3.94	729	4.76	766	5.58	837	7.25	906	9.17				
15400	1145	666	3.29	682	3.62	717	4.38	753	5.21	789	6.08	858	7.83	924	9.73				
16100	1197	695	3.73	711	4.08	743	4.84	777	5.69	812	6.61	879	8.43	942	10.30				
16800	1250	724	4.21	739	4.57	770	5.36	802	6.22	835	7.15	900	9.06	962	11.00				
17500	1302	752	4.70	767	5.09	797	5.91	828	6.81	859	7.75	922	9.74						
18200	1354	781	5.26	795	5.65	824	6.50	854	7.43	884	8.41	945	10.50						
18900	1406	809	5.83	823	6.25	852	7.16	880	8.09	909	9.09								
19600	1458	838	6.47	852	6.92	879	7.83	906	8.78	934	9.82								
20300	1510	867	7.15	881	7.64	907	8.57	933	9.55	959	10.60								
21000	1562	896	7.89	910	8.41	934	9.32	960	10.40										

365 SQL-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9000	612	307	.64	341	.90	408	1.54	469	2.19	527	2.90								
9700	660	326	.76	357	1.04	421	1.69	478	2.40	534	3.12								
10400	707	345	.89	374	1.18	435	1.87	489	2.63	542	3.39								
11100	755	364	1.04	392	1.35	449	2.06	502	2.87	551	3.67	646	5.36						
11800	803	384	1.21	410	1.54	463	2.26	515	3.10	562	3.97	653	5.69						
12500	850	403	1.39	428	1.73	478	2.49	528	3.34	574	4.27	661	6.08						
13200	898	423	1.60	447	1.96	493	2.73	542	3.62	586	4.57	669	6.48	750	8.49				
13900	945	443	1.83	466	2.21	509	3.00	556	3.91	600	4.91	679	6.93	757	8.95				
14600	993	462	2.07	485	2.47	526	3.29	570	4.23	613	5.23	690	7.37	765	9.48				
15300	1041	482	2.34	504	2.76	544	3.63	585	4.57	627	5.60	702	7.82	774	10.10				
16000	1088	502	2.63	523	3.07	562	3.98	600	4.93	641	6.00	715	8.29	783	10.60				
16700	1136	523	2.97	543	3.42	580	4.35	616	5.32	655	6.41	728	8.76						
17400	1184	543	3.32	562	3.78	598	4.74	633	5.76	669	6.83	742	9.28						
18100	1231	563	3.69	582	4.18	617	5.18	650	6.21	685	7.33	755	9.78						
18800	1279	583	4.08	602	4.61	636	5.64	668	6.71	700	7.82	769	10.30						
19500	1327	603	4.51	622	5.07	655	6.13	686	7.23	717	8.39	783	10.90						
20200	1374	624	4.99	641	5.53	673	6.62	704	7.78	734	8.97								
20900	1422	645	5.51	661	6.04	693	7.20	722	8.36	751	9.58								
21600	1469	665	6.03	681	6.59	712	7.78	740	8.96	768	10.20								
22300	1517	686	6.61	701	7.17	731	8.39	759	9.63	786	10.90								

402 SQL-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
10800	604	276	.76	307	1.08	369	1.85	424	2.62										
11600	649	292	.89	321	1.23	380	2.03	432	2.87	483	3.73								
12400	693	308	1.03	335	1.39	391	2.21	441	3.12	489	4.01								
13200	738	324	1.19	350	1.57	403	2.42	451	3.38	497	4.34								
14000	783	341	1.38	365	1.77	415	2.65	462	3.64	505	4.66	590	6.75						
14800	828	357	1.58	381	2.00	427	2.89	473	3.91	515	5.01	596	7.15						
15600	872	374	1.80	396	2.23	440	3.17	485	4.22	526	5.37	603	7.62	677	10.00				
16400	917	391	2.05	412	2.49	453	3.45	497	4.55	537	5.72	611	8.12	683	10.50				
17200	962	408	2.32	429	2.80	467	3.77	509	4.89	548	6.09	620	8.63						
18000	1007	425	2.62	445	3.11	482	4.12	521	5.26	560	6.50	629	9.12						
18800	1052	441	2.91	461	3.44	497	4.50	534	5.66	571	6.90	640	9.66						
19600	1096	459	3.28	477	3.79	512	4.89	547	6.08	583	7.35	651	10.20						
20400	1141	476	3.64	494	4.19	528	5.34	561	6.54	595	7.82	662	10.70						
21200	1186	493	4.04	511	4.62	543	5.77	575	7.02	608	8.35								
22000	1231	510	4.46	527	5.05	559	6.27	590	7.56	621	8.90								
22800	1275	527	4.91	544	5.54	575	6.79	604	8.08	634	9.46								
23600	1320	545	5.42	561	6.05	591	7.34	620	8.70	648	10.10								
24400	1365	562	5.94	578	6.60	608	7.96	635	9.31	662	10.70								
25200	1410	580	6.52	595	7.18	624	8.57	651	9.99										
26000	1454	597	7.10	612	7.80	640	9.22	666	10.70										

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). Underlined figures indicate point of maximum static efficiency. **Shaded area indicates reinforced wheel required.**

Belt Drive High Pressure



Loren Cook Company certifies that the SQN-HP 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 SQN-HP is furnished standard with UL 705 Listing (Power Ventilator/ZACT) when furnished with factory supplied motor.



Type SQN-HP is furnished standard with UL Listing (Power Ventilator) when furnished with factory supplied motor.

Description: Fan shall be duct mounted, belt driven, high pressure centrifugal square inline.

Certifications: Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (CSA Standard 113 - M1984). Fan shall bear the AMCA Certified Ratings Seal for Sound and Air Performance.

Construction: The fan shall be of bolted construction utilizing corrosion resistant fasteners. Housing shall be minimum 18 gauge galvanized steel with integral duct collars. Bolted access doors shall be provided on three sides, sealed with closed cell neoprene gasketing. Pivoting motor plate shall utilize threaded L-bolt design for positive belt tensioning. Housing shall be pre-drilled to accommodate universal mounting feet for vertical or horizontal 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.

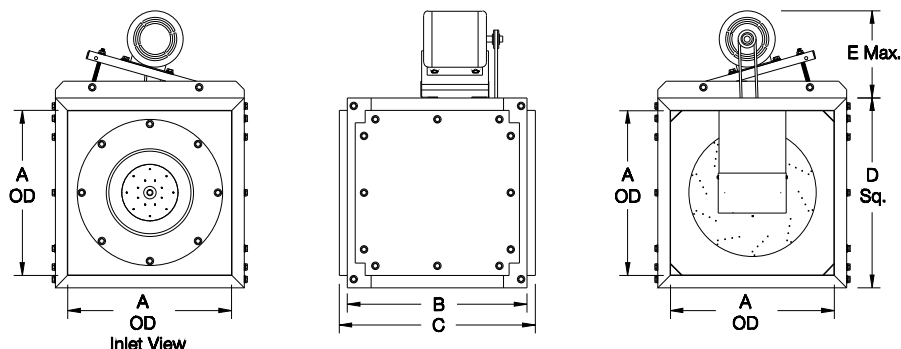
Wheel: Wheel shall be high pressure centrifugal backward inclined, constructed of 100% aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

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

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

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

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



Dimensions

Size	A	B	C	D	E	Inlet and Rear Discharge Duct Size (ID)	Optional Side Discharge Duct Size (WxH) (ID)	Max.Motor Frame Size	Approx. Ship Wt.*
135	18	20-1/4	22-1/4	20-3/4	12-1/2	18 sq.	14-1/4 x 13-1/8	145T	125
150	20	21-7/8	23-7/8	23	12-3/4	20 sq.	15-15/16 x 16-1/8	145T	150
165	22	25	27	25-5/16	14-3/4	22 sq.	19-1/8 x 18-1/8	182T	175
180	24	28	30	27-5/8	14-3/4	24 sq.	21 x 20-1/8	182T	200
195	26	30-1/4	32-1/4	29-15/16	15	26 sq.	23-1/4 x 22-1/8	182T	225
210	28	32	35	31-1/4	15	28 sq.	24-1/2 x 24-1/8	182T	250
225	30	34-1/4	37-1/4	33-1/2	15-1/4	30 sq.	26-3/4 x 26-1/8	184T	300
245	33	34	38	36	17-1/4	33 sq.	26-1/16 x 29-1/8	213T	350
270	36-7/16	37-1/2	41-1/2	39-11/16	17-1/4	36-7/16 sq.	29-11/16 x 32-1/2	213T	400
300	40	38	42	44	17-1/4	40 sq.	30-1/8 x 36-1/8	213T	450
330	44	41-3/4	45-3/4	48-7/16	17-1/4	44 sq.	31-13/16 x 40-1/8	215T	500
365	46	42	46	50	17-1/4	46 sq.	32-3/16 x 42-1/16	215T	550
402	50-3/4	46-1/4	50-1/4	55-1/8	17-1/4	50-3/4 sq.	36-5/16 x 46-15/16	254T	650

All dimensions in inches.

*Weights in Lbs, Less Motor and Drives.

135 SQN-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	444	1029	.10	1196	.16	1492	.30	1765	.47	2020	.66								
1075	477	1081	.11	1239	.18	1523	.32	1779	.49	2028	.69								
1150	511	1135	.13	1283	.20	1558	.34	1800	.51	2038	.72	2262	.94						
1225	544	1190	.15	1330	.22	1594	.37	1827	.54	2051	.75	2270	.97	2474	1.21				
1300	577	1246	.17	1378	.24	1632	.40	1858	.57	2070	.78	2280	1.01	2482	1.25				
1375	611	1304	.19	1428	.26	1671	.43	1892	.61	2095	.81	2294	1.05	2491	1.30				
1450	644	1361	.22	1480	.29	1712	.47	1928	.65	2124	.85	2313	1.09	2502	1.34				
1525	677	1420	.24	1532	.32	1754	.50	1965	.69	2156	.90	2337	1.13	2517	1.39				
1600	711	1478	.27	1586	.35	1799	.54	2002	.74	2191	.94	2366	1.18	2537	1.44				
1675	744	1538	.31	1641	.39	1844	.58	2042	.79	2227	1.00	2398	1.23	2562	1.49				
1750	777	1598	.34	1696	.43	1891	.62	2082	.84	2263	1.05	2431	1.29	2591	1.55				
1825	811	1658	.38	1753	.47	1940	.67	2124	.89	2301	1.11	2466	1.35	2622	1.61				
1900	844	1719	.42	1810	.51	1990	.72	2168	.95	2340	1.18	2502	1.42						
1975	877	1779	.46	1867	.56	2041	.77	2212	1.00	2380	1.25	2539	1.49						
2050	911	1840	.51	1925	.61	2092	.83	2258	1.07	2421	1.32	2577	1.57						
2125	944	1900	.56	1983	.67	2144	.88	2305	1.13	2463	1.39	2616	1.65						
2200	977	1963	.62	2042	.72	2198	.95	2353	1.20	2507	1.47								
2275	1011	2025	.68	2100	.78	2252	1.02	2402	1.27	2551	1.54								
2350	1044	2086	.74	2161	.85	2307	1.09	2452	1.34	2596	1.62								
2425	1077	2148	.80	2220	.92	2362	1.16	2503	1.42										

150 SQN-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	215	820	.05	1011	.10	1326	.21	1592	.32										
700	251	888	.07	1065	.12	1361	.23	1615	.36	1839	.50								
800	287	959	.08	1128	.14	1407	.26	1646	.41	1862	.56	2060	.71	2240	.87				
900	323	1036	.10	1195	.16	1457	.29	1686	.45	1892	.61	2084	.78	2262	.95	2582	1.32		
1000	359	1118	.13	1263	.19	1512	.33	1732	.49	1929	.67	2113	.85	2287	1.04	2603	1.42	2885	1.84
1100	395	1204	.16	1333	.22	1575	.37	1783	.54	1974	.72	2150	.92	2316	1.12	2626	1.53	2907	1.97
1200	431	1291	.19	1408	.26	1641	.42	1838	.60	2023	.78	2193	.99	2353	1.21	2652	1.65	2929	2.10
1300	467	1379	.23	1487	.30	1708	.47	1899	.66	2074	.85	2241	1.06	2396	1.29	2685	1.76		
1400	503	1468	.28	1570	.35	1776	.53	1963	.72	2130	.93	2291	1.14	2443	1.37	2723	1.87		
1500	539	1558	.33	1655	.41	1846	.59	2030	.80	2192	1.01	2345	1.23	2492	1.47	2766	1.98		
1600	575	1648	.38	1741	.47	1918	.66	2097	.88	2256	1.10	2403	1.33	2545	1.57	2813	2.09		
1700	611	1739	.45	1828	.54	1994	.74	2165	.96	2322	1.19	2465	1.44	2601	1.69				
1800	647	1831	.52	1916	.62	2072	.83	2235	1.06	2390	1.30	2529	1.55	2661	1.81				
1900	683	1922	.60	2005	.71	2154	.92	2306	1.16	2457	1.41	2596	1.67	2724	1.94				
2000	719	2013	.68	2094	.80	2237	1.03	2380	1.27	2526	1.53	2663	1.80	2790	2.08				
2100	755	2107	.78	2183	.90	2322	1.14	2456	1.38	2595	1.65	2731	1.93						
2200	791	2200	.89	2274	1.01	2408	1.26	2534	1.51	2667	1.79	2799	2.08						
2300	827	2292	1.00	2364	1.13	2495	1.39	2615	1.65	2741	1.93								
2400	863	2384	1.12	2455	1.26	2582	1.53	2698	1.80	2816	2.09								
2500	899	2478	1.26	2547	1.40	2670	1.69	2783	1.97										

165 SQN-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	297	769	.09	925	.15	1200	.32	1438	.52	1639	.72								
1150	342	832	.11	979	.18	1234	.36	1457	.57	1660	.79	1838	1.03						
1300	386	897	.14	1040	.22	1274	.40	1485	.62	1679	.86	1858	1.12	2019	1.38				
1450	431	967	.17	1102	.26	1320	.45	1522	.68	1704	.93	1876	1.20	2038	1.49	2324	2.08		
1600	476	1038	.20	1165	.30	1374	.50	1563	.74	1739	1.00	1901	1.29	2057	1.59	2345	2.22	2595	2.87
1750	520	1112	.25	1230	.35	1434	.57	1609	.81	1778	1.08	1934	1.38	2082	1.69	2363	2.36	2617	3.06
1900	565	1187	.30	1297	.41	1496	.64	1661	.89	1820	1.17	1973	1.47	2115	1.80	2383	2.49	2635	3.23
2050	609	1264	.36	1367	.47	1558	.72	1719	.99	1867	1.27	2013	1.58	2153	1.91	2410	2.63		
2200	654	1341	.42	1438	.55	1621	.81	1780	1.09	1920	1.38	2058	1.70	2193	2.03	2444	2.77		
2350	699	1418	.49	1511	.63	1685	.91	1842	1.20	1978	1.50	2107	1.82	2236	2.17	2481	2.92		
2500	743	1498	.58	1585	.72	1750	1.01	1904	1.32	2038	1.64	2162	1.97	2283	2.32	2521	3.09		
2650	788	1576	.67	1661	.82	1817	1.13	1967	1.45	2100	1.78	2220	2.12	2335	2.48	2563	3.26		
2800	833	1657	.77	1737	.93	1886	1.25	2030	1.59	2163	1.94	2281	2.29	2392	2.66				
2950	877	1737	.89	1813	1.05	1957	1.39	2095	1.74	2225	2.11	2343	2.48	2451	2.86				
3100	922	1816	1.01	1891	1.18	2029	1.53	2161	1.91	2288	2.29	2405	2.67	2512	3.06				
3250	966	1898	1.15	1968	1.32	2101	1.69	2228	2.08	2352	2.48	2468	2.88	2574	3.28				
3400	1011	1979	1.30	2047	1.48	2175	1.86	2297	2.26	2416	2.68	2530	3.09						
3550	1056	2061	1.46	2126	1.65	2249	2.04	2367	2.46	2481	2.89								
3700	1100	2142	1.63	2204	1.83	2325	2.24	2438	2.67	2549	3.12								
3850	1145	2222	1.82	2284	2.03	2399	2.45	2510	2.90										

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). Underlined figures indicate point of maximum static efficiency.

SQN-HP Performance Data

180 SQN-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	300	647	.09	810	.18	1083	.39	1302	.63	1487	.87								
1375	343	691	.11	842	.20	1101	.43	1318	.69	1502	.96	1665	1.24						
1550	387	737	.14	880	.23	1124	.47	1334	.75	1518	1.05	1681	1.36	1828	1.66				
1725	431	787	.17	922	.27	1151	.52	1354	.81	1534	1.13	1697	1.46	1844	1.80	2106	2.49		
1900	475	840	.20	966	.31	1182	.56	1377	.87	1552	1.20	1713	1.56	1860	1.93	2120	2.68		
2075	518	895	.24	1011	.36	1218	.62	1403	.94	1574	1.29	1730	1.65	1876	2.05	2136	2.86		
2250	562	951	.28	1059	.41	1258	.69	1433	1.00	1598	1.37	1750	1.75	1893	2.16	2152	3.02		
2425	606	1009	.34	1109	.47	1300	.76	1467	1.08	1625	1.46	1773	1.86	1913	2.28	2169	3.18		
2600	650	1067	.39	1161	.53	1344	.84	1504	1.17	1655	1.55	1799	1.97	1935	2.40				
2775	693	1126	.46	1215	.60	1389	.93	1545	1.27	1688	1.65	1827	2.08	1960	2.53				
2950	737	1186	.53	1270	.68	1434	1.02	1588	1.39	1725	1.76	1858	2.19	1987	2.66				
3125	781	1246	.61	1327	.77	1481	1.12	1631	1.50	1765	1.89	1892	2.32	2016	2.79				
3300	825	1307	.70	1384	.87	1531	1.24	1675	1.63	1807	2.04	1929	2.46	2048	2.94				
3475	868	1368	.80	1442	.98	1582	1.36	1720	1.77	1850	2.19	1969	2.63	2084	3.10				
3650	912	1428	.91	1501	1.09	1634	1.49	1766	1.91	1894	2.36	2011	2.81	2121	3.28				
3825	956	1491	1.03	1559	1.22	1688	1.63	1814	2.07	1938	2.53	2054	3.00						
4000	1000	1554	1.16	1619	1.36	1743	1.78	1863	2.23	1983	2.71	2097	3.20						
4175	1043	1615	1.30	1679	1.51	1797	1.94	1913	2.40	2029	2.90								
4350	1087	1677	1.45	1738	1.66	1854	2.11	1965	2.59	2076	3.10								
4525	1131	1738	1.61	1799	1.84	1910	2.30	2018	2.79										

195 SQN-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1400	298	596	.11	747	.21	999	.46	1201	.74										
1600	341	635	.13	775	.24	1016	.51	1216	.81	1386	1.12	1537	1.44						
1800	383	677	.16	809	.27	1036	.55	1230	.87	1400	1.22	1550	1.58	1686	1.93				
2000	426	721	.19	846	.31	1059	.60	1247	.94	1415	1.31	1565	1.70	1700	2.10	1943	2.90		
2200	469	768	.23	886	.36	1087	.65	1268	1.01	1431	1.40	1579	1.81	1715	2.25	1955	3.11		
2400	511	817	.27	926	.41	1118	.71	1291	1.09	1449	1.49	1595	1.92	1729	2.38				
2600	554	868	.32	968	.47	1153	.79	1317	1.16	1471	1.59	1612	2.03	1744	2.51				
2800	597	919	.38	1013	.53	1192	.87	1347	1.25	1494	1.69	1632	2.15	1762	2.64				
3000	639	972	.44	1060	.61	1231	.96	1380	1.35	1521	1.79	1655	2.28	1781	2.78				
3200	682	1024	.51	1108	.69	1271	1.06	1416	1.46	1550	1.90	1680	2.40	1803	2.93				
3400	724	1078	.60	1157	.77	1311	1.17	1454	1.58	1582	2.02	1707	2.53	1827	3.08				
3600	767	1132	.68	1208	.87	1353	1.28	1493	1.72	1617	2.17	1736	2.67	1852	3.23				
3800	810	1187	.79	1259	.98	1397	1.40	1532	1.86	1654	2.33	1769	2.83						
4000	852	1242	.90	1310	1.09	1442	1.54	1572	2.01	1693	2.50	1804	3.01						
4200	895	1296	1.01	1363	1.22	1489	1.68	1613	2.17	1732	2.69	1841	3.21						
4400	938	1352	1.14	1416	1.36	1537	1.84	1655	2.34	1772	2.88								
4600	980	1408	1.29	1469	1.52	1585	2.00	1699	2.53	1812	3.08								
4800	1023	1464	1.44	1523	1.68	1635	2.18	1743	2.72	1852	3.29								
5000	1066	1519	1.61	1576	1.85	1685	2.37	1789	2.93										
5200	1108	1574	1.78	1630	2.04	1736	2.58	1836	3.15										

210 SQN-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	275	531	.11	678	.22	915	.48	1096	.76										
1700	312	564	.13	696	.25	929	.53	1110	.84	1264	1.16								
1900	349	597	.16	719	.27	943	.58	1125	.91	1278	1.26	1413	1.62	1537	1.99				
2100	386	630	.18	748	.31	957	.62	1139	.98	1292	1.36	1427	1.75	1549	2.14				
2300	422	665	.22	780	.35	974	.67	1153	1.05	1307	1.46	1441	1.87	1563	2.29	1781	3.17		
2500	459	701	.25	813	.40	994	.72	1166	1.12	1321	1.55	1456	1.99	1578	2.45				
2700	496	739	.29	846	.45	1019	.78	1182	1.18	1334	1.64	1470	2.11	1592	2.59				
2900	533	778	.34	880	.51	1047	.85	1201	1.26	1348	1.73	1484	2.22	1606	2.73				
3100	569	818	.39	914	.56	1079	.93	1222	1.34	1364	1.82	1497	2.33	1620	2.87				
3300	606	859	.45	949	.63	1111	1.02	1247	1.43	1381	1.91	1511	2.44	1633	3.00				
3500	643	900	.51	985	.70	1144	1.12	1275	1.53	1402	2.01	1527	2.55	1647	3.13				
3700	680	942	.58	1023	.77	1178	1.22	1306	1.65	1426	2.13	1546	2.68	1662	3.27				
3900	716	984	.66	1062	.86	1211	1.32	1337	1.78	1452	2.26	1566	2.80						
4100	753	1026	.74	1101	.95	1244	1.43	1370	1.92	1481	2.41	1590	2.95						
4300	790	1069	.84	1141	1.06	1278	1.54	1404	2.07	1512	2.57	1616	3.11						
4500	827	1111	.93	1181	1.17	1312	1.66	1437	2.21	1544	2.74	1644	3.29						
4700	863	1154	1.04	1222	1.29	1348	1.79	1470	2.37	1577	2.93								
4900	900	1197	1.16	1263	1.41	1384	1.93	1503	2.52	1610	3.11								
5100	937	1241	1.29	1304	1.55	1421	2.08	1537	2.69										
5300	974	1284	1.42	1346	1.69	1460	2.25	1571	2.86										

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 SQN-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1800	288	506	.14	638	.26	859	.58	1028	.91	1173	1.26								
2100	336	546	.17	663	.30	876	.65	1046	1.02	1188	1.40	1315	1.81						
2400	384	587	.21	697	.35	893	.71	1063	1.13	1206	1.56	1331	1.99	1446	2.45				
2700	432	629	.26	736	.42	914	.78	1080	1.23	1223	1.70	1349	2.18	1463	2.68	1666	3.70		
3000	480	675	.31	777	.49	941	.86	1097	1.32	1240	1.84	1367	2.37	1481	2.90	1682	4.00	1861	5.15
3300	528	722	.38	817	.57	974	.96	1118	1.43	1257	1.97	1384	2.54	1498	3.12	1700	4.31		
3600	576	771	.46	859	.66	1012	1.09	1145	1.55	1276	2.10	1400	2.70	1515	3.32	1717	4.60		
3900	624	821	.55	902	.76	1052	1.23	1177	1.70	1299	2.25	1418	2.87	1531	3.52	1735	4.88		
4200	672	871	.65	947	.87	1093	1.37	1213	1.87	1326	2.41	1439	3.04	1549	3.72	1751	5.15		
4500	720	922	.76	995	1.00	1133	1.53	1251	2.06	1358	2.61	1465	3.24	1569	3.92	1768	5.42		
4800	768	974	.89	1043	1.14	1174	1.69	1292	2.27	1394	2.83	1494	3.46	1593	4.15				
5100	816	1026	1.04	1092	1.30	1216	1.87	1332	2.49	1433	3.09	1526	3.70	1620	4.40				
5400	864	1078	1.20	1141	1.48	1259	2.06	1373	2.72	1472	3.36	1563	4.00	1651	4.68				
5700	912	1131	1.38	1192	1.67	1303	2.27	1413	2.95	1513	3.65	1601	4.31	1686	5.00				
6000	960	1183	1.57	1242	1.88	1349	2.50	1454	3.20	1554	3.95	1641	4.65	1723	5.36				
6300	1008	1236	1.78	1293	2.11	1396	2.76	1496	3.47	1594	4.25	1682	5.01						
6600	1056	1290	2.02	1344	2.36	1444	3.04	1540	3.77	1635	4.57	1722	5.37						
6900	1104	1344	2.27	1397	2.63	1493	3.34	1584	4.08	1676	4.91								
7200	1152	1398	2.55	1448	2.92	1542	3.67	1629	4.42	1717	5.25								
7500	1200	1451	2.84	1500	3.23	1591	4.01	1676	4.79										

245 SQN-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1950	257	440	.15	575	.30	779	.65	938	1.05										
2400	317	479	.19	598	.36	798	.76	955	1.21	1088	1.68	1208	2.18	1319	2.71				
2850	376	523	.25	630	.43	817	.87	973	1.37	1106	1.90	1223	2.45	1330	3.03	1524	4.24		
3300	436	570	.32	669	.52	840	.98	992	1.53	1124	2.11	1241	2.72	1347	3.35	1536	4.67	1706	6.06
3750	496	622	.40	711	.63	869	1.11	1013	1.69	1143	2.33	1259	2.99	1365	3.67	1553	5.10	1719	6.60
4200	555	677	.51	756	.75	904	1.28	1039	1.87	1164	2.54	1278	3.25	1383	3.99	1571	5.53	1736	7.13
4650	615	733	.64	805	.89	944	1.47	1069	2.08	1187	2.76	1299	3.52	1402	4.31	1589	5.96	1755	7.68
5100	674	790	.79	856	1.06	986	1.68	1104	2.33	1215	3.02	1322	3.80	1423	4.63	1608	6.39	1773	8.22
5550	734	848	.97	910	1.25	1030	1.91	1143	2.60	1247	3.32	1349	4.11	1446	4.96	1627	6.80		
6000	793	905	1.17	965	1.47	1076	2.16	1185	2.91	1284	3.67	1379	4.46	1473	5.34	1648	7.22		
6450	853	964	1.40	1021	1.73	1124	2.44	1228	3.24	1323	4.04	1414	4.87	1502	5.75	1672	7.68		
6900	912	1021	1.66	1078	2.02	1175	2.75	1272	3.59	1365	4.45	1452	5.32	1536	6.22	1699	8.19		
7350	972	1081	1.96	1135	2.33	1227	3.10	1318	3.97	1408	4.89	1492	5.80	1573	6.74				
7800	1031	1139	2.28	1192	2.69	1281	3.50	1366	4.38	1452	5.34	1534	6.32	1612	7.30				
8250	1091	1198	2.65	1250	3.08	1336	3.93	1416	4.84	1498	5.84	1577	6.86	1653	7.90				
8700	1150	1259	3.07	1308	3.51	1392	4.41	1467	5.34	1545	6.37	1622	7.45						
9150	1210	1318	3.51	1366	3.99	1448	4.93	1520	5.88	1593	6.93	1667	8.05						
9600	1269	1378	4.00	1424	4.50	1504	5.49	1574	6.48	1643	7.55								
10050	1329	1437	4.53	1483	5.07	1561	6.10	1629	7.13	1695	8.23								
10500	1388	1498	5.13	1542	5.68	1618	6.75	1685	7.84										

270 SQN-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2400	261	401	.18	523	.37	708	.80	852	1.28	977	1.80								
2850	310	430	.23	540	.42	722	.91	865	1.45	986	2.02	1095	2.61						
3300	359	462	.28	562	.49	736	1.02	878	1.60	999	2.23	1105	2.88	1203	3.57				
3750	408	497	.34	589	.58	752	1.12	892	1.77	1013	2.45	1119	3.16	1215	3.89	1388	5.43	1545	7.06
4200	457	534	.42	620	.68	771	1.24	907	1.93	1026	2.66	1132	3.42	1228	4.21	1399	5.86	1552	7.60
4650	506	573	.51	653	.79	794	1.39	923	2.08	1040	2.87	1146	3.69	1242	4.54	1412	6.29	1563	8.14
5100	555	614	.62	686	.91	820	1.55	942	2.26	1056	3.08	1160	3.95	1255	4.85	1426	6.72		
5550	604	656	.74	722	1.05	850	1.74	965	2.48	1073	3.30	1175	4.21	1269	5.17	1439	7.15		
6000	653	699	.89	760	1.21	881	1.95	990	2.71	1093	3.55	1192	4.49	1284	5.48	1453	7.58		
6450	702	741	1.05	799	1.39	914	2.17	1018	2.98	1116	3.84	1211	4.79	1301	5.81	1467	8.00		
6900	751	784	1.24	840	1.60	947	2.40	1048	3.27	1141	4.15	1232	5.12	1319	6.15				
7350	800	827	1.45	882	1.83	981	2.66	1079	3.57	1169	4.50	1255	5.48	1339	6.53				
7800	849	871	1.68	923	2.08	1017	2.93	1112	3.91	1199	4.89	1281	5.88	1362	6.96				
8250	898	914	1.93	966	2.36	1055	3.25	1145	4.26	1230	5.29	1309	6.32	1386	7.41				
8700	947	958	2.22	1008	2.67	1093	3.58	1179	4.63	1262	5.72	1339	6.80	1413	7.92				
9150	996	1002	2.53	1051	3.00	1133	3.96	1214	5.02	1294	6.16	1370	7.31						
9600	1045	1046	2.87	1094	3.37	1174	4.37	1250	5.45	1327	6.62	1401	7.83						
10050	1094	1090	3.24	1137	3.77	1215	4.80	1287	5.90	1361	7.12								
10500	1143	1135	3.65	1180	4.19	1257	5.28	1325	6.40	1396	7.64								
10950	1192	1180	4.10	1224	4.67	1298	5.78	1365	6.94	1432	8.20								

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

SQN-HP Performance Data

300 SQN-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4400	396	435	.39	517	.65	664	1.31	794	2.06	910	2.86								
4800	432	459	.45	537	.73	676	1.41	800	2.20	914	3.04								
5200	468	483	.52	557	.81	689	1.51	808	2.33	919	3.23	1020	4.16						
5600	504	508	.60	579	.92	705	1.63	819	2.48	925	3.41	1025	4.39	1117	5.41				
6000	540	532	.69	602	1.03	722	1.75	831	2.63	933	3.59	1030	4.62	1121	5.68				
6400	576	556	.78	626	1.15	740	1.89	845	2.79	944	3.79	1037	4.85	1126	5.96				
6800	612	581	.89	650	1.28	759	2.05	861	2.96	956	3.99	1046	5.09	1132	6.23				
7200	648	606	1.00	674	1.42	780	2.24	877	3.14	969	4.19	1057	5.33	1140	6.51				
7600	684	631	1.13	699	1.58	801	2.43	895	3.35	984	4.41	1069	5.58	1150	6.80				
8000	720	657	1.27	723	1.74	823	2.63	914	3.57	1000	4.65	1082	5.83	1161	7.09				
8400	756	683	1.42	748	1.92	846	2.86	933	3.81	1017	4.90	1097	6.11	1173	7.39				
8800	792	709	1.57	772	2.10	870	3.10	954	4.09	1035	5.18	1112	6.38	1187	7.71				
9200	828	736	1.75	796	2.29	894	3.35	975	4.37	1054	5.48	1129	6.70	1201	8.02				
9600	864	764	1.95	820	2.50	918	3.61	997	4.68	1073	5.80	1146	7.02						
10000	900	791	2.16	845	2.73	942	3.89	1020	5.01	1093	6.14	1164	7.37						
10400	936	819	2.39	870	2.96	967	4.19	1043	5.35	1114	6.52	1183	7.75						
10800	972	847	2.63	895	3.22	991	4.49	1067	5.71	1136	6.92	1203	8.17						
11200	1008	875	2.89	921	3.49	1016	4.82	1090	6.07	1158	7.33								
11600	1044	902	3.15	947	3.78	1040	5.16	1115	6.48	1181	7.78								
12000	1080	930	3.45	974	4.10	1064	5.51	1139	6.89	1204	8.23								

330 SQN-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5300	394	394	.46	470	.78	603	1.58	722	2.49										
5850	435	419	.55	489	.88	615	1.71	728	2.68	831	3.70								
6400	476	445	.66	511	1.01	630	1.86	737	2.87	836	3.95	928	5.09						
6950	517	470	.77	534	1.16	646	2.02	748	3.07	843	4.20	933	5.41	1017	6.67				
7500	558	495	.89	558	1.32	664	2.20	762	3.28	853	4.47	939	5.72	1021	7.03				
8050	598	520	1.03	583	1.49	684	2.42	777	3.50	865	4.74	948	6.05	1027	7.42	1174	10.30		
8600	639	545	1.18	608	1.68	704	2.64	794	3.75	878	5.02	958	6.38	1034	7.79	1178	10.80		
9150	680	571	1.35	633	1.89	726	2.91	812	4.02	893	5.31	971	6.73	1044	8.18				
9700	721	598	1.54	658	2.11	749	3.20	832	4.34	910	5.64	984	7.07	1056	8.60				
10250	762	625	1.74	683	2.35	773	3.51	852	4.68	927	5.98	999	7.44	1069	9.02				
10800	803	652	1.97	708	2.60	798	3.85	873	5.05	946	6.37	1016	7.85	1083	9.44				
11350	844	681	2.23	733	2.88	822	4.19	896	5.47	966	6.80	1033	8.27	1098	9.88				
11900	885	709	2.51	759	3.18	848	4.58	919	5.90	986	7.26	1052	8.75	1115	10.40				
12450	926	737	2.80	785	3.51	873	4.97	942	6.35	1008	7.77	1071	9.26	1132	10.90				
13000	967	766	3.13	811	3.86	898	5.39	967	6.85	1030	8.31	1091	9.82						
13550	1008	795	3.49	837	4.22	924	5.84	991	7.35	1052	8.86	1112	10.40						
14100	1049	823	3.86	864	4.62	949	6.31	1016	7.89	1076	9.47								
14650	1090	853	4.28	892	5.07	974	6.80	1042	8.48	1100	10.10								
15200	1130	882	4.72	919	5.52	999	7.32	1067	9.08	1125	10.80								
15750	1171	912	5.20	947	6.02	1024	7.86	1092	9.70										

365 SQN-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5400	367	324	.45	404	.84	538	1.75	644	2.69	734	3.77								
5950	404	341	.52	416	.93	545	1.91	651	2.92	740	4.01								
6500	442	358	.60	429	1.03	553	2.06	658	3.17	747	4.29	826	5.53						
7050	479	376	.70	443	1.14	561	2.19	665	3.41	754	4.61	833	5.86	904	7.22				
7600	517	395	.81	458	1.27	571	2.36	672	3.63	761	4.94	839	6.22	911	7.61	1038	10.70		
8150	554	414	.92	474	1.40	582	2.54	680	3.85	768	5.26	846	6.63	917	8.03				
8700	592	433	1.04	491	1.56	595	2.74	688	4.05	775	5.56	853	7.04	924	8.51				
9250	629	453	1.18	509	1.74	608	2.95	698	4.30	782	5.82	860	7.44	931	9.01				
9800	666	473	1.32	527	1.93	622	3.17	709	4.57	791	6.12	867	7.80	938	9.50				
10350	704	493	1.48	545	2.12	636	3.39	721	4.85	800	6.42	875	8.16	945	9.96				
10900	741	513	1.66	564	2.34	652	3.65	734	5.16	811	6.77	883	8.50	952	10.40				
11450	779	533	1.84	583	2.57	668	3.93	747	5.47	822	7.13	892	8.88	960	10.80				
12000	816	554	2.06	602	2.81	685	4.24	761	5.80	834	7.52	903	9.32						
12550	854	575	2.29	621	3.06	702	4.56	776	6.16	847	7.93	914	9.76						
13100	891	596	2.53	641	3.33	720	4.92	791	6.52	860	8.34	925	10.20						
13650	928	618	2.81	661	3.63	738	5.29	807	6.93	874	8.78	938	10.70						
14200	966	639	3.09	681	3.94	756	5.68	823	7.35	888	9.22								
14750	1003	660	3.40	701	4.26	775	6.10	840	7.82	903	9.71								
15300	1041	682	3.74	721	4.61	794	6.54	858	8.33	919	10.20								
15850	1078	704	4.10	742	4.99	813	6.99	875	8.83	934	10.70								

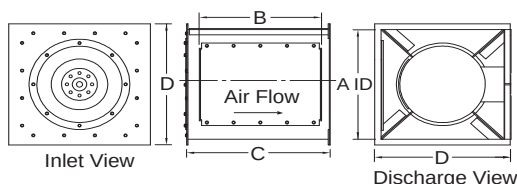
Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Underlined figures indicate point of maximum static efficiency. **Shaded area indicates reinforced wheel required.**

402 SQN-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
6500	363	293	.54	366	1.01	488	2.11	584	3.26										
7350	411	312	.65	379	1.15	496	2.36	592	3.61	673	4.94	745	6.43						
8200	458	332	.79	394	1.31	505	2.58	600	3.99	681	5.39	752	6.89	817	8.53				
9050	506	353	.94	411	1.49	515	2.80	608	4.35	688	5.87	760	7.44	824	9.09				
9900	554	375	1.11	430	1.71	528	3.08	617	4.68	696	6.37	768	8.07	832	9.75	947	13.50		
10750	601	397	1.30	449	1.94	542	3.38	627	5.02	705	6.85	776	8.71	840	10.50	955	14.30		
11600	649	420	1.52	470	2.23	558	3.72	639	5.41	714	7.28	784	9.30	848	11.30	963	15.20		
12450	696	443	1.76	491	2.53	574	4.06	652	5.83	724	7.73	792	9.82	856	12.00	970	16.20		
13300	744	467	2.04	513	2.87	592	4.45	667	6.31	736	8.25	802	10.40	865	12.70				
14150	791	490	2.33	534	3.21	611	4.90	682	6.79	749	8.82	813	11.00	874	13.30				
15000	839	514	2.67	557	3.60	631	5.40	699	7.33	763	9.42	825	11.60	884	14.00				
15850	886	539	3.05	579	4.00	651	5.92	716	7.88	779	10.10	838	12.40	895	14.70				
16700	934	563	3.46	602	4.46	672	6.51	734	8.49	795	10.80	852	13.10	908	15.60				
17550	982	587	3.90	625	4.94	693	7.12	753	9.17	811	11.40	867	13.90	921	16.40				
18400	1029	613	4.42	648	5.46	715	7.78	773	9.92	829	12.20	883	14.70						
19250	1077	638	4.97	672	6.04	736	8.45	793	10.70	847	13.00	900	15.60						
20100	1124	662	5.53	696	6.67	758	9.17	814	11.60	866	13.90								
20950	1172	687	6.16	720	7.34	780	9.92	835	12.50	886	14.90								
21800	1219	713	6.87	744	8.06	803	10.70	856	13.40	906	16.00								
22650	1267	739	7.64	768	8.82	825	11.60	878	14.40										

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). Underlined figures indicate point of maximum static efficiency. **Shaded area indicates reinforced wheel required.**

Square Centrifugal Inline Blower Direct Drive



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



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

Description: Fan shall be duct mounted, direct driven centrifugal square inline.

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. Housing shall be minimum 18 gauge steel with airflow straightening vanes and integral duct flanges. Hinged access door shall be located in the specified position. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM and static pressure. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

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

Wheel: Wheel shall be centrifugal backward inclined, constructed of 100 percent aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

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

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

Dimensions

Size	A	B	C	D	Approx. Ship Wt.-Lbs.*
70	10-1/8	9-3/4	11-3/4	13-1/8	38
80	13	13	15-1/8	16	43
90	14-7/16	14-3/8	16-13/16	17-1/2	55
120	17-3/8	17-3/4	20-3/16	20-1/2	175
135	19-1/2	20-1/4	22-11/16	22-5/8	232
150	21-5/8	22-13/16	25-1/4	24-3/4	285
165	23-13/16	25-5/16	27-3/4	26-15/16	305

All dimensions in inches. *Weights in pounds, with motor.

Catalog Number	Max. Watts /BHP	Nominal RPM	Motor H.P.	CFM vs. Static Pressure															
				0" SP	.10" SP	.125" SP	.25" SP	.375" SP	.50" SP	.625" SP	.75" SP	1.00" SP	1.25" SP	1.50" SP	1.75" SP	2.00" SP			
70SQ10D	62W	1050	1/20	170	143	136	89												
70SQ12D	70W	1200	1/20	199	163	153	102												
70SQ15D	120W	1550	1/20	239	202	191	137	63											
80SQ10D	84W	1075	1/6	470	376	358	260	170	93										
80SQ12D	130W	1200	1/6	632	562	542	444	353	249	143									
80SQ15D	235W	1550	1/6	763	699	682	585	485	389	272	135								
90SQ10D	83W	1075	1/6	609	519	494	371	232	139										
90SQ12D	134W	1200	1/6	809	757	742	658	570	460	277									
90SQ15D	240W	1550	1/6	939	897	887	833	776	706	627	420								
120SQ10D	.129	1075	1/6	1177	1086	1065	955	814	463										
*120SQ17D	.472	1725	1/2	1793	1740	1727	1661	1598	1532	1450	1361	1156							
135SQ10D	.17	1075	1/6	1305	1207	1183	1051	948	856	429									
*135SQ17D	.77	1725	3/4	2068	2013	1999	1927	1856	1782	1701	1622	1521	1429	1201					
150SQ10D	.299	1075	1/3	1994	1889	1863	1737	1606	1470	1368	1250								
*150SQ17D	1.090	1725	1	3015	2947	2931	2847	2767	2689	2611	2532	2359	2208	2081	1935				
165SQ10D	.461	1075	1/3	3066	2879	2838	2659	2499	2330	2179	1986								
*165SQ17D	2.163	1725	2	4906	4796	4769	4644	4533	4435	4347	4264	4099	3925	3769	3643	3490			

Performance shown is for Installation Type B: Free inlet, Ducted outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances in the airstream. *These fans cannot be used with FSC speed controller.

Description: Fan shall be duct mounted, belt driven centrifugal square inline.

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. Housing shall be minimum 18 gauge steel with airflow straightening vanes and integral duct flanges. Adjustable motor plate shall utilize threaded studs for positive belt tensioning. Access door, motor and mounting feet shall be located in the specified position. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM, static pressure and maximum fan RPM. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

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

Wheel: Wheel shall be centrifugal backward inclined, constructed of 100 percent aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

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

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

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

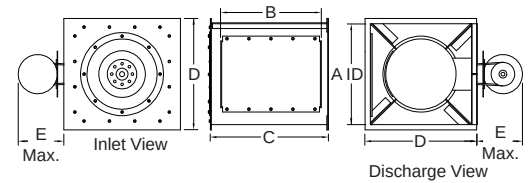
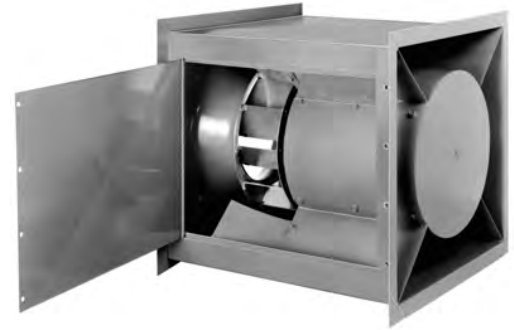
Product: Fan shall be model SQI-B as manufactured by Loren Cook Company of Springfield, Missouri.

Dimensions

Size	A	B	C	D	E	Max. Mtr. Frame	Approx. Ship Wt.-Lbs.*
90	14-7/16	14-3/8	16-13/16	17-1/2	14-5/16	143T	125
120	17-3/8	17-3/4	20-3/16	20-1/2	14-5/16	145T	150
135	19-1/2	20-1/4	22-11/16	22-5/8	14-5/16	145T	200
150	21-5/8	22-13/16	25-1/4	24-3/4	14-5/16	145T	250
165	23-13/16	25-5/16	27-3/4	26-15/16	14-5/16	182T	255
180	26	27-13/16	30-1/4	29-1/8	14-5/16	182T	275
195	28-3/16	30-1/8	32-3/4	31-5/16	14-5/16	182T	325
210	30-3/8	32-5/8	35-1/4	33-1/2	14-5/16	182T	375
225	32-1/2	35-3/16	37-13/16	35-5/8	17-1/2	184T	425
245	35-3/8	38-9/16	41-3/16	38-1/2	17-1/2	213T	425
270	39	42-3/4	45-3/8	42-1/8	17-1/2	213T	450
300	43-7/16	47-13/16	50-7/16	46-1/2	17-1/2	213T	475
330	47-5/8	52-13/16	55-7/16	50-3/4	17-1/2	215T	555
365	52-3/4	58-15/16	61-3/8	55-7/8	17-1/2	215T	652
402	58-3/8	61-3/4	64-1/4	61-1/2	17-1/2	215T	750

All dimensions in inches. *Weights in pounds, less motor and drives.

Square Centrifugal Inline Blower Belt Drive



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



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

90 SQI-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	414	1179	.05	1264	.07	1466	.11	1686	.16	1904	.22								
650	448	1263	.06	1341	.08	1521	.12	1719	.17	1926	.23								
700	483	1348	.08	1421	.10	1581	.14	1762	.19	1951	.25	2316	.39						
750	517	1433	.09	1503	.11	1646	.15	1812	.21	1984	.27	2338	.41						
800	552	1519	.11	1586	.13	1717	.17	1867	.23	2026	.29	2360	.43						
850	587	1605	.13	1670	.15	1790	.20	1928	.25	2075	.31	2386	.46	2693	.62				
900	621	1690	.15	1754	.17	1867	.22	1992	.27	2129	.34	2417	.48	2715	.65	2989	.83		
950	656	1777	.17	1838	.20	1946	.25	2061	.30	2187	.36	2456	.51	2738	.68	3010	.87		
1000	690	1863	.20	1924	.23	2026	.28	2132	.33	2249	.40	2501	.54	2766	.72	3032	.91		
1050	725	1949	.22	2009	.26	2108	.31	2206	.37	2315	.43	2551	.58	2799	.75	3055	.95		
1100	759	2036	.25	2094	.29	2191	.35	2283	.40	2384	.47	2605	.62	2838	.79	3081	.98		
1150	794	2122	.29	2181	.32	2274	.39	2362	.45	2455	.51	2663	.66	2883	.83	3112	1.03		
1200	828	2210	.32	2266	.36	2357	.43	2441	.49	2528	.55	2724	.70	2932	.88	3149	1.07		
1250	863	2297	.36	2351	.40	2442	.47	2523	.54	2606	.60	2787	.75	2985	.93				
1300	897	2383	.40	2437	.45	2526	.52	2605	.59	2682	.65	2853	.80	3042	.98				
1350	932	2471	.45	2524	.49	2611	.57	2688	.64	2763	.71	2923	.86	3101	1.04				
1400	966	2559	.49	2609	.54	2697	.63	2771	.70	2842	.77	2995	.92	3163	1.10				
1450	1001	2647	.55	2696	.60	2782	.68	2854	.76	2925	.84	3068	.99						
1500	1035	2734	.60	2783	.65	2866	.74	2939	.83	3006	.90	3144	1.06						
1550	1070	2822	.66	2869	.71	2952	.81	3023	.89	3089	.97								
1600	1104	2909	.72	2955	.78	3039	.88	3107	.97	3172	1.05								

120 SQI-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1000	476	1142	.10	1226	.12	1369	.18	1501	.25	1640	.32								
1075	511	1214	.11	1295	.15	1433	.21	1557	.27	1681	.35								
1150	547	1288	.14	1364	.17	1498	.23	1616	.30	1730	.38								
1225	583	1361	.16	1434	.19	1564	.26	1677	.33	1785	.41	2009	.59						
1300	619	1436	.19	1505	.22	1631	.30	1741	.37	1843	.45	2049	.63						
1375	654	1511	.22	1576	.25	1699	.33	1806	.41	1904	.49	2097	.67						
1450	690	1585	.25	1649	.29	1767	.37	1871	.45	1967	.54	2149	.72	2338	.93				
1525	726	1662	.29	1721	.33	1835	.41	1938	.50	2030	.58	2205	.77	2380	.99				
1600	761	1738	.33	1795	.37	1905	.46	2005	.55	2096	.64	2264	.83	2429	1.05	2603	1.29		
1675	797	1813	.37	1869	.41	1974	.51	2072	.60	2161	.70	2324	.89	2482	1.11	2644	1.35		
1750	833	1888	.42	1942	.46	2045	.56	2140	.66	2228	.76	2387	.96	2538	1.18	2690	1.42		
1825	869	1965	.47	2018	.52	2116	.62	2209	.72	2295	.83	2450	1.03	2596	1.25	2741	1.50		
1900	904	2043	.52	2092	.57	2187	.68	2277	.79	2362	.90	2515	1.11	2656	1.33	2794	1.58		
1975	940	2120	.58	2166	.64	2259	.75	2347	.86	2430	.97	2580	1.19	2717	1.42				
2050	976	2197	.65	2241	.70	2332	.82	2417	.93	2498	1.05	2646	1.28	2781	1.51				
2125	1011	2274	.72	2318	.78	2404	.89	2487	1.01	2567	1.13	2712	1.37	2845	1.61				
2200	1047	2351	.79	2394	.85	2477	.97	2558	1.09	2635	1.22	2779	1.47						
2275	1083	2428	.87	2470	.93	2551	1.06	2629	1.18	2705	1.31	2846	1.57						
2350	1119	2504	.96	2545	1.02	2624	1.15	2700	1.28	2774	1.41								
2425	1154	2581	1.05	2620	1.11	2697	1.24	2773	1.38	2845	1.52								
2500	1190	2657	1.14	2695	1.21	2772	1.34	2846	1.49	2915	1.62								

135 SQI-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1250	473	1004	.12	1080	.15	1208	.22	1327	.31	1453	.40								
1335	505	1062	.14	1134	.18	1258	.25	1370	.33	1484	.43								
1420	537	1120	.16	1189	.20	1310	.28	1416	.37	1521	.46								
1505	570	1178	.19	1245	.23	1362	.31	1465	.40	1563	.50								
1590	602	1237	.22	1300	.26	1415	.35	1514	.44	1608	.54	1800	.77						
1675	634	1297	.25	1358	.29	1469	.39	1565	.48	1655	.58	1834	.81						
1760	666	1356	.28	1414	.33	1523	.43	1617	.53	1704	.63	1873	.86	2053	1.13				
1845	698	1416	.32	1472	.37	1577	.48	1670	.58	1754	.68	1915	.92	2081	1.19				
1930	731	1477	.36	1529	.41	1631	.52	1723	.63	1805	.74	1960	.98	2116	1.25				
2015	763	1537	.41	1589	.46	1686	.57	1776	.69	1857	.80	2007	1.04	2154	1.31	2310	1.62		
2100	795	1597	.45	1647	.51	1741	.63	1829	.75	1909	.87	2055	1.11	2196	1.39				
2185	827	1657	.51	1705	.57	1798	.69	1883	.81	1962	.94	2104	1.19	2240	1.46				
2270	859	1717	.56	1765	.62	1853	.75	1938	.88	2015	1.01	2154	1.27	2285	1.54				
2355	892	1779	.62	1825	.69	1911	.82	1992	.95	2068	1.09	2205	1.35	2333	1.63				
2440	924	1841	.69	1884	.76	1967	.89	2047	1.03	2122	1.17	2257	1.44						
2525	956	1903	.76	1943	.83	2025	.97	2102	1.11	2176	1.25	2309	1.54						
2610	988	1964	.84	2003	.90	2083	1.05	2158	1.19	2230	1.34	2362	1.64						
2695	1020	2026	.92	2064	.99	2140	1.13	2214	1.28	2285	1.44								
2780	1053	2087	1.00	2124	1.07	2198	1.22	2270	1.38	2339	1.54								
2865	1085	2148	1.09	2185	1.17	2257	1.32	2327	1.48	2395	1.64								

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 SQL-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1400	430	770	.10	836	.14	960	.22	1086	.32										
1525	469	827	.13	888	.17	1003	.25	1118	.35	1235	.46								
1650	507	886	.15	941	.20	1050	.29	1155	.39	1262	.50								
1775	546	945	.18	996	.23	1099	.33	1195	.43	1295	.55	1498	.81						
1900	584	1004	.22	1052	.26	1150	.37	1240	.48	1332	.60	1519	.86						
2025	623	1065	.26	1109	.31	1201	.42	1287	.53	1372	.65	1547	.92						
2150	661	1124	.30	1167	.35	1253	.47	1336	.59	1416	.71	1579	.99	1746	1.30				
2275	700	1184	.35	1226	.40	1306	.52	1387	.65	1462	.78	1615	1.07	1771	1.38				
2400	738	1244	.40	1284	.46	1360	.59	1437	.72	1510	.85	1654	1.15	1801	1.47	1951	1.82		
2525	776	1304	.46	1344	.52	1415	.65	1489	.79	1560	.93	1696	1.23	1835	1.56	1976	1.91		
2650	815	1365	.52	1403	.59	1471	.73	1541	.87	1611	1.02	1740	1.32	1872	1.66	2005	2.02		
2775	853	1425	.59	1463	.67	1528	.81	1594	.95	1661	1.11	1786	1.42	1911	1.77	2038	2.13		
2900	892	1485	.67	1523	.75	1585	.89	1648	1.04	1713	1.21	1835	1.54	1953	1.88				
3025	930	1545	.75	1582	.83	1643	.99	1703	1.14	1765	1.31	1884	1.65	1997	2.00				
3150	969	1605	.84	1643	.93	1701	1.09	1758	1.25	1817	1.42	1934	1.78	2042	2.13				
3275	1007	1665	.94	1703	1.03	1760	1.19	1815	1.36	1872	1.54	1985	1.91						
3400	1046	1726	1.04	1763	1.14	1819	1.31	1872	1.48	1925	1.66	2035	2.04						
3525	1084	1786	1.15	1822	1.25	1879	1.44	1928	1.61	1981	1.79	2087	2.19						
3650	1123	1846	1.27	1883	1.38	1938	1.57	1987	1.75	2036	1.93								
3775	1161	1906	1.39	1943	1.51	1997	1.71	2045	1.89	2093	2.09								
3900	1200	1967	1.53	2004	1.66	2057	1.86	2104	2.05										
4025	1238	2028	1.67	2064	1.80	2117	2.02												
4150	1276	2088	1.83	2123	1.96	2177	2.18												
4275	1315	2148	1.98	2184	2.13														
4400	1353	2209	2.16																

165 SQL-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1750	444	719	.13	777	.18	886	.28	997	.40	1111	.53								
1925	488	780	.17	832	.22	934	.33	1033	.45	1135	.58								
2100	533	842	.21	890	.26	985	.38	1075	.51	1167	.64								
2275	577	905	.26	948	.31	1038	.44	1121	.57	1205	.71	1377	1.03						
2450	622	968	.31	1008	.37	1091	.50	1170	.64	1247	.79	1406	1.12						
2625	666	1030	.37	1069	.44	1146	.58	1222	.72	1293	.88	1441	1.22	1590	1.59				
2800	711	1094	.44	1131	.51	1202	.66	1275	.81	1343	.97	1479	1.32	1618	1.70	1761	2.13		
2975	755	1157	.52	1193	.59	1260	.75	1329	.91	1394	1.08	1521	1.43	1652	1.83	1783	2.25		
3150	799	1220	.60	1256	.69	1318	.84	1383	1.02	1447	1.20	1567	1.56	1689	1.96	1813	2.39	1939	2.87
3325	844	1284	.70	1318	.79	1378	.95	1439	1.13	1500	1.32	1615	1.70	1730	2.11	1846	2.55	1964	3.02
3500	888	1347	.81	1381	.90	1438	1.07	1495	1.26	1554	1.45	1665	1.85	1773	2.27	1884	2.72	1995	3.20
3675	933	1410	.92	1444	1.02	1499	1.20	1554	1.40	1609	1.60	1717	2.01	1819	2.44	1924	2.91		
3850	977	1473	1.05	1507	1.16	1560	1.35	1611	1.54	1665	1.75	1770	2.19	1867	2.62	1966	3.10		
4025	1022	1536	1.18	1571	1.30	1622	1.50	1672	1.71	1721	1.92	1823	2.37	1918	2.83	2011	3.30		
4200	1066	1600	1.33	1633	1.46	1684	1.67	1731	1.88	1779	2.10	1877	2.57	1969	3.04				
4375	1110	1663	1.49	1697	1.63	1747	1.85	1792	2.07	1837	2.29	1931	2.78	2022	3.27				
4550	1155	1727	1.67	1760	1.81	1809	2.04	1853	2.27	1897	2.50	1986	3.00						
4725	1199	1790	1.86	1824	2.01	1872	2.25	1915	2.49	1957	2.73	2042	3.23						
4900	1244	1854	2.06	1887	2.22	1935	2.48	1977	2.72	2016	2.96								
5075	1288	1918	2.28	1950	2.44	1998	2.72	2038	2.96	2077	3.22								

180 SQL-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2100	447	591	.12	659	.18	792	.30	919	.45	1035	.61								
2325	495	640	.15	703	.21	823	.35	941	.50	1052	.67								
2550	543	691	.19	747	.25	859	.40	967	.55	1073	.73	1267	1.12						
2775	591	742	.23	794	.30	897	.45	997	.61	1097	.79	1283	1.20						
3000	639	795	.28	842	.35	938	.51	1032	.68	1124	.87	1303	1.28	1466	1.75				
3225	687	848	.34	891	.41	981	.58	1068	.76	1155	.95	1324	1.37	1483	1.85				
3450	735	902	.41	942	.48	1026	.65	1108	.84	1189	1.05	1349	1.48	1503	1.97	1646	2.50		
3675	783	955	.48	993	.56	1071	.74	1149	.94	1226	1.15	1377	1.60	1524	2.09	1664	2.63	1796	3.21
3900	831	1010	.57	1044	.65	1118	.83	1192	1.04	1264	1.26	1407	1.72	1548	2.23	1684	2.78		
4125	879	1064	.66	1097	.75	1166	.94	1236	1.15	1305	1.38	1440	1.86	1575	2.38	1706	2.93		
4350	927	1118	.76	1150	.86	1214	1.05	1281	1.27	1347	1.50	1476	2.01	1603	2.53	1730	3.10		
4575	975	1173	.88	1203	.97	1264	1.18	1327	1.40	1390	1.64	1513	2.16	1635	2.71	1756	3.29		
4800	1023	1228	1.00	1257	1.11	1314	1.32	1374	1.55	1435	1.79	1553	2.33	1669	2.89				
5025	1071	1284	1.15	1310	1.25	1364	1.46	1422	1.70	1480	1.96	1593	2.50	1704	3.09				
5250	1119	1339	1.30	1364	1.40	1416	1.63	1470	1.87	1526	2.13	1635	2.69	1742	3.30				
5475	1167	1394	1.46	1418	1.57	1468	1.80	1520	2.06	1572	2.32	1678	2.89						
5700	1215	1449	1.64	1473	1.75	1520	1.99	1569	2.25	1619	2.52	1722	3.11						
5925	1263	1504	1.83	1527	1.95	1573	2.20	1620	2.46	1668	2.74								
6150	1311	1559	2.03	1581	2.16	1625	2.41	1670	2.68	1717	2.97								
6375	1359	1613	2.25	1635	2.38	1678	2.65	1722	2.93	1766	3.22								

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). **Shaded area indicates reinforced wheel required.**

195 SQL-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2500	452	551	.15	614	.21	735	.36	851	.53	958	.73								
2750	498	595	.18	652	.25	762	.41	871	.59	973	.79								
3000	543	639	.22	691	.30	794	.47	894	.65	991	.85	1170	1.32						
3250	588	684	.27	732	.35	827	.52	920	.72	1012	.93	1184	1.40						
3500	634	730	.33	774	.41	863	.59	950	.80	1035	1.01	1201	1.50	1353	2.04				
3750	679	776	.39	817	.48	901	.67	982	.88	1062	1.10	1220	1.60	1367	2.16				
4000	724	823	.46	861	.55	939	.75	1016	.97	1092	1.21	1241	1.71	1384	2.28	1517	2.91		
4250	769	870	.54	905	.64	979	.84	1052	1.07	1123	1.32	1264	1.84	1403	2.42	1532	3.05		
4500	815	917	.63	950	.73	1019	.94	1089	1.18	1157	1.44	1291	1.98	1423	2.57	1550	3.21		
4750	860	965	.74	996	.84	1060	1.05	1127	1.30	1192	1.57	1319	2.12	1445	2.72				
5000	905	1012	.84	1042	.95	1103	1.18	1166	1.43	1228	1.70	1349	2.28	1470	2.90				
5250	951	1060	.97	1088	1.08	1146	1.31	1206	1.57	1265	1.85	1382	2.45	1496	3.08				
5500	996	1108	1.10	1135	1.22	1189	1.46	1246	1.72	1304	2.01	1415	2.63	1525	3.28				
5750	1041	1156	1.25	1182	1.37	1234	1.62	1288	1.89	1343	2.19	1450	2.82						
6000	1086	1205	1.41	1228	1.53	1278	1.79	1330	2.07	1382	2.37	1486	3.02						
6250	1132	1253	1.58	1276	1.71	1323	1.98	1372	2.26	1423	2.57	1523	3.24						
6500	1177	1301	1.77	1324	1.90	1368	2.17	1416	2.47	1464	2.79								
6750	1222	1349	1.97	1371	2.11	1415	2.40	1459	2.69	1505	3.01								
7000	1268	1397	2.18	1418	2.33	1461	2.63	1504	2.94	1548	3.26								
7250	1313	1445	2.41	1466	2.56	1506	2.86	1547	3.18										

210 SQL-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2900	452	512	.17	570	.25	682	.42	791	.62	889	.84								
3150	491	547	.21	600	.28	704	.47	806	.67	902	.90								
3400	530	582	.25	632	.33	729	.52	824	.73	916	.97								
3650	569	618	.29	664	.38	755	.58	844	.80	932	1.04	1094	1.59						
3900	608	655	.34	697	.43	783	.64	867	.87	949	1.12	1107	1.68						
4150	647	691	.40	731	.50	812	.71	891	.95	969	1.21	1121	1.77	1260	2.41				
4400	686	729	.47	765	.56	842	.79	917	1.04	991	1.30	1136	1.88	1272	2.53				
4650	725	766	.54	801	.64	873	.87	945	1.13	1015	1.41	1153	1.99	1286	2.65				
4900	764	803	.62	836	.73	905	.96	973	1.23	1040	1.51	1172	2.12	1301	2.79				
5150	803	841	.71	872	.82	937	1.06	1003	1.34	1067	1.63	1193	2.25	1317	2.93				
5400	842	880	.81	909	.92	970	1.17	1033	1.45	1094	1.76	1215	2.40	1334	3.09				
5650	881	918	.91	946	1.03	1004	1.29	1064	1.58	1123	1.89	1238	2.55	1353	3.26				
5900	920	955	1.03	982	1.15	1038	1.42	1096	1.72	1153	2.04	1263	2.71						
6150	959	993	1.15	1019	1.28	1073	1.56	1128	1.86	1183	2.19	1289	2.88						
6400	998	1032	1.29	1057	1.42	1107	1.70	1160	2.01	1213	2.35	1316	3.06						
6650	1037	1071	1.44	1095	1.58	1143	1.87	1193	2.18	1245	2.52	1344	3.25						
6900	1076	1110	1.60	1132	1.73	1178	2.03	1227	2.36	1276	2.70								
7150	1115	1148	1.77	1169	1.90	1215	2.22	1261	2.55	1309	2.90								
7400	1154	1187	1.95	1208	2.10	1251	2.41	1295	2.75	1341	3.11								
7650	1193	1226	2.14	1246	2.29	1287	2.62	1330	2.96										

225 SQL-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3200	435	464	.18	520	.27	628	.46	732	.69										
3600	490	508	.23	559	.33	656	.53	751	.77	840	1.03								
4000	544	555	.30	600	.40	688	.62	775	.87	859	1.14	1014	1.75						
4400	599	602	.38	642	.48	724	.72	803	.98	881	1.26	1029	1.89						
4800	653	650	.47	686	.58	761	.83	834	1.10	907	1.40	1048	2.05	1177	2.78				
5200	708	698	.58	731	.69	801	.95	869	1.25	936	1.55	1068	2.22	1194	2.98	1310	3.79		
5600	762	747	.70	777	.82	842	1.10	906	1.40	968	1.73	1092	2.42	1212	3.18	1325	4.03		
6000	817	796	.85	825	.98	884	1.26	944	1.57	1003	1.92	1119	2.64	1233	3.42	1343	4.28	1446	5.20
6400	871	846	1.01	872	1.15	927	1.44	984	1.77	1040	2.13	1149	2.88	1257	3.68	1363	4.56	1463	5.49
6800	926	895	1.19	920	1.34	972	1.65	1025	1.98	1078	2.35	1181	3.14	1283	3.96	1384	4.85		
7200	980	945	1.40	969	1.55	1017	1.87	1067	2.22	1117	2.60	1215	3.41	1312	4.27	1408	5.18		
7600	1035	995	1.63	1017	1.79	1063	2.12	1110	2.48	1158	2.87	1251	3.71	1343	4.60				
8000	1089	1046	1.89	1066	2.05	1109	2.39	1154	2.77	1199	3.17	1289	4.04	1376	4.96				
8400	1144	1096	2.17	1115	2.33	1156	2.69	1198	3.08	1241	3.49	1327	4.38	1411	5.34				
8800	1198	1146	2.47	1165	2.65	1203	3.02	1243	3.42	1284	3.84	1367	4.76						
9200	1253	1196	2.81	1215	3.00	1252	3.39	1289	3.79	1328	4.22	1407	5.16						
9600	1307	1246	3.17	1264	3.36	1299	3.76	1335	4.19	1372	4.63								
10000	1362	1295	3.55	1313	3.76	1348	4.19	1382	4.62	1417	5.08								
10400	1416	1346	3.98	1363	4.20	1397	4.64	1429	5.08										

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). **Shaded area indicates reinforced wheel required.**

245 SQI-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4300	494	451	.26	499	.37	587	.60	671	.86	756	1.17								
4800	552	494	.34	536	.45	619	.71	692	.98	770	1.29								
5300	609	538	.43	574	.55	652	.83	721	1.12	788	1.43	927	2.17						
5800	667	582	.53	615	.66	686	.95	753	1.28	814	1.60	940	2.34						
6300	724	628	.66	657	.80	721	1.10	786	1.45	844	1.79	957	2.54	1075	3.42				
6800	782	673	.81	700	.95	758	1.27	819	1.63	876	2.01	980	2.78	1089	3.65	1195	4.64		
7300	840	719	.98	743	1.13	796	1.46	854	1.84	909	2.24	1008	3.05	1106	3.92	1209	4.92		
7800	897	765	1.17	788	1.33	836	1.68	890	2.07	943	2.49	1039	3.35	1129	4.24	1223	5.22	1319	6.33
8300	955	811	1.38	832	1.55	877	1.92	927	2.33	977	2.76	1071	3.67	1157	4.60	1242	5.58	1333	6.69
8800	1012	858	1.63	878	1.81	919	2.19	965	2.61	1012	3.05	1104	4.01	1187	4.99	1266	5.99	1349	7.08
9300	1070	905	1.91	922	2.08	962	2.49	1004	2.92	1049	3.38	1137	4.37	1219	5.41	1294	6.44	1370	7.53
9800	1127	951	2.20	969	2.40	1005	2.82	1045	3.27	1086	3.73	1171	4.76	1251	5.85	1325	6.94	1396	8.05
10300	1185	998	2.54	1015	2.75	1049	3.18	1085	3.63	1124	4.12	1206	5.18	1284	6.31	1356	7.45		
10800	1242	1044	2.90	1060	3.11	1093	3.57	1128	4.05	1164	4.55	1241	5.62	1318	6.81	1389	8.01		
11300	1300	1090	3.28	1106	3.52	1137	3.99	1170	4.49	1205	5.01	1278	6.12	1352	7.33				
11800	1357	1137	3.72	1152	3.96	1183	4.47	1214	4.98	1246	5.51	1315	6.64	1386	7.87				
12300	1415	1183	4.18	1199	4.45	1228	4.97	1257	5.49	1288	6.05	1353	7.20						
12800	1472	1230	4.69	1246	4.99	1273	5.50	1301	6.05	1330	6.61	1392	7.81						
13300	1530	1278	5.25	1293	5.56	1318	6.07	1346	6.66	1373	7.23								
13800	1588	1325	5.85	1340	6.17	1364	6.71	1390	7.29	1417	7.90								

270 SQI-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5500	520	427	.36	468	.49	546	.79	617	1.11	691	1.48								
6000	568	459	.44	496	.58	570	.90	635	1.23	702	1.61								
6500	615	492	.53	525	.68	595	1.02	657	1.37	717	1.75	842	2.65						
7000	662	525	.64	555	.79	620	1.15	681	1.53	737	1.93	852	2.82						
7500	710	559	.76	586	.92	646	1.29	706	1.71	759	2.12	864	3.02	972	4.08				
8000	757	593	.90	618	1.07	674	1.46	731	1.89	783	2.33	880	3.25	982	4.30				
8500	804	627	1.06	650	1.24	702	1.64	756	2.08	807	2.55	899	3.50	994	4.56	1089	5.76		
9000	852	662	1.24	683	1.42	731	1.84	782	2.29	832	2.79	921	3.78	1008	4.85	1100	6.06	1187	7.38
9500	899	696	1.43	716	1.62	760	2.05	809	2.53	857	3.04	944	4.08	1025	5.16	1111	6.37	1197	7.70
10000	946	730	1.64	750	1.85	791	2.29	836	2.78	882	3.30	968	4.41	1046	5.52	1125	6.73	1207	8.05
10500	994	765	1.88	784	2.10	822	2.56	865	3.06	909	3.60	993	4.75	1068	5.90	1142	7.12		
11000	1041	800	2.14	817	2.36	854	2.85	894	3.36	935	3.90	1018	5.11	1092	6.32	1162	7.56		
11500	1089	835	2.43	851	2.66	886	3.16	923	3.68	963	4.24	1043	5.48	1116	6.75	1184	8.03		
12000	1136	870	2.74	886	2.98	918	3.49	954	4.04	991	4.61	1068	5.86	1140	7.19				
12500	1183	905	3.08	920	3.33	951	3.85	984	4.40	1020	5.00	1094	6.28	1165	7.66				
13000	1231	939	3.43	954	3.69	985	4.25	1016	4.82	1050	5.43	1120	6.72	1190	8.15				
13500	1278	974	3.81	988	4.08	1017	4.65	1047	5.24	1079	5.86	1147	7.20						
14000	1325	1008	4.21	1022	4.50	1051	5.11	1080	5.72	1110	6.35	1175	7.71						
14500	1373	1043	4.66	1058	4.98	1085	5.59	1112	6.21	1141	6.86	1202	8.23						
15000	1420	1078	5.14	1093	5.48	1119	6.10	1145	6.74	1173	7.42								
15500	1467	1113	5.65	1128	6.01	1152	6.63	1178	7.30	1204	7.98								

300 SQI-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7000	535	394	.47	429	.64	499	1.02	560	1.42	626	1.89								
7500	573	418	.56	450	.73	516	1.13	575	1.55	634	2.01								
8000	612	442	.65	471	.83	535	1.25	591	1.69	645	2.16	758	3.27						
8500	650	466	.75	493	.94	553	1.38	608	1.85	659	2.33	765	3.43						
9000	688	491	.88	516	1.07	572	1.52	626	2.02	675	2.52	773	3.62	872	4.93				
9500	726	515	1.00	539	1.21	591	1.67	644	2.19	691	2.71	783	3.83	879	5.15				
10000	765	540	1.15	562	1.36	611	1.83	662	2.37	709	2.93	795	4.06	886	5.37	974	6.86		
10500	803	565	1.31	586	1.53	632	2.02	681	2.57	727	3.16	810	4.33	895	5.64	981	7.13		
11000	841	590	1.48	610	1.72	653	2.22	699	2.77	745	3.39	825	4.60	905	5.92	988	7.40		
11500	879	615	1.67	634	1.91	675	2.44	719	3.01	763	3.63	842	4.90	917	6.23	996	7.71		
12000	918	640	1.87	658	2.13	697	2.67	739	3.25	781	3.88	859	5.21	931	6.56	1005	8.04		
12500	956	665	2.10	683	2.36	719	2.91	759	3.51	800	4.16	877	5.54	947	6.94				
13000	994	691	2.35	707	2.61	742	3.18	780	3.80	819	4.45	895	5.89	963	7.32				
13500	1032	716	2.60	732	2.88	765	3.47	801	4.09	839	4.77	913	6.24	980	7.73				
14000	1071	742	2.89	756	3.16	788	3.77	823	4.42	859	5.10	931	6.60	997	8.15				
14500	1109	767	3.18	781	3.47	812	4.10	844	4.75	879	5.45	950	7.00						
15000	1147	792	3.50	806	3.80	835	4.43	867	5.12	900	5.83	968	7.38						
15500	1185	818	3.84	832	4.16	860	4.81	889	5.49	921	6.23	987	7.81						
16000	1224	843	4.20	856	4.52	884	5.20	912	5.90	943	6.66	1006	8.24						
16500	1262	868	4.57	881	4.91	908	5.61	935	6.33	964	7.09								
17000	1300	893	4.97	906	5.32	932	6.04	958	6.78	987	7.57								

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). **Shaded area indicates reinforced wheel.**

330 SQL-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
8000	507	342	.50	376	.69	441	1.13	501	1.61	564	2.18								
8750	555	368	.61	399	.82	461	1.30	515	1.78	572	2.35								
9500	603	395	.75	423	.97	481	1.47	533	2.00	583	2.55	687	3.89						
10250	650	422	.90	447	1.13	502	1.66	552	2.22	598	2.80	695	4.14						
11000	698	450	1.08	473	1.33	523	1.87	572	2.47	616	3.08	704	4.41	794	6.02				
11750	746	478	1.29	499	1.54	545	2.10	592	2.73	635	3.39	716	4.74	802	6.34				
12500	793	506	1.52	525	1.78	568	2.37	613	3.02	655	3.72	732	5.13	811	6.71	889	8.49		
13250	841	534	1.77	552	2.05	592	2.66	634	3.33	675	4.06	749	5.54	822	7.13	898	8.93		
14000	888	562	2.05	579	2.35	616	2.98	656	3.67	696	4.44	768	5.99	836	7.60	907	9.39		
14750	936	590	2.36	607	2.68	641	3.33	679	4.05	717	4.83	787	6.45	852	8.12	918	9.91		
15500	984	619	2.72	634	3.03	667	3.73	702	4.46	738	5.25	808	6.97	870	8.68	931	10.50		
16250	1031	648	3.11	662	3.43	692	4.13	725	4.89	760	5.71	828	7.49	889	9.29				
17000	1079	676	3.52	690	3.86	719	4.60	750	5.38	783	6.22	848	8.03	908	9.90				
17750	1126	705	3.98	718	4.33	745	5.08	775	5.90	806	6.76	869	8.61	929	10.60				
18500	1174	734	4.48	746	4.84	772	5.62	800	6.46	829	7.32	890	9.22						
19250	1222	762	4.99	775	5.40	799	6.19	826	7.06	853	7.94	912	9.89						
20000	1269	790	5.55	802	5.96	827	6.82	851	7.68	878	8.62	934	10.60						
20750	1317	819	6.16	830	6.57	854	7.47	878	8.38	903	9.32								
21500	1365	847	6.80	859	7.27	882	8.19	904	9.10	928	10.10								
22250	1412	876	7.51	888	8.01	909	8.92	931	9.88	954	10.90								

365 SQL-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9500	491	302	.57	334	.81	393	1.33	450	1.91	507	2.59								
10300	533	322	.69	352	.94	409	1.50	460	2.09	514	2.78								
11100	574	343	.82	370	1.08	424	1.67	472	2.29	521	2.97								
11900	615	365	.98	389	1.24	441	1.87	487	2.53	531	3.21	623	4.85						
12700	657	386	1.14	408	1.42	457	2.07	502	2.77	544	3.50	630	5.13						
13500	698	408	1.34	428	1.63	474	2.30	518	3.04	558	3.80	637	5.42	718	7.37				
14300	740	430	1.55	449	1.86	491	2.55	534	3.32	573	4.12	647	5.79	724	7.71				
15100	781	452	1.79	470	2.12	509	2.82	550	3.62	589	4.48	658	6.16	731	8.10	803	10.30		
15900	822	474	2.06	491	2.40	528	3.13	567	3.95	604	4.82	672	6.61	739	8.52	809	10.70		
16700	864	496	2.34	512	2.70	547	3.46	584	4.30	620	5.20	686	7.06	749	9.00				
17500	905	518	2.65	534	3.04	566	3.82	601	4.67	637	5.62	701	7.54	761	9.54				
18300	947	541	3.01	555	3.39	586	4.21	619	5.08	653	6.04	717	8.07	774	10.10				
19100	988	563	3.38	577	3.78	606	4.62	638	5.54	670	6.50	733	8.62	789	10.70				
19900	1030	586	3.80	599	4.21	627	5.09	656	6.00	688	7.01	749	9.18						
20700	1071	609	4.26	621	4.66	647	5.56	675	6.50	705	7.52	765	9.76						
21500	1112	631	4.73	643	5.16	668	6.08	695	7.06	723	8.08	781	10.40						
22300	1154	654	5.25	666	5.71	689	6.63	715	7.65	742	8.70	798	11.00						
23100	1195	676	5.78	688	6.27	711	7.24	735	8.27	761	9.35								
23900	1237	699	6.37	710	6.86	732	7.86	755	8.91	780	10.00								
24700	1278	721	6.98	732	7.49	753	8.51	776	9.63	799	10.70								

402 SQL-B

CFM	OV	0.125" SP		0.250" SP		0.500" SP		0.750" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
12000	507	276	.69	304	.97	356	1.58	407	2.27										
13000	549	295	.83	320	1.13	369	1.76	416	2.48	463	3.27								
14000	591	315	.99	337	1.30	384	1.98	427	2.71	471	3.53								
15000	633	334	1.16	354	1.49	399	2.21	440	2.98	481	3.83								
16000	676	354	1.36	373	1.72	414	2.46	454	3.28	492	4.15	568	6.05						
17000	718	374	1.58	391	1.96	430	2.75	468	3.59	504	4.48	576	6.45						
18000	760	394	1.83	410	2.23	446	3.05	483	3.93	517	4.84	585	6.86	653	9.10				
19000	802	414	2.10	429	2.52	463	3.40	498	4.29	531	5.24	595	7.30	660	9.59				
20000	845	435	2.41	449	2.85	480	3.76	514	4.70	546	5.69	607	7.81	668	10.10				
21000	887	456	2.76	469	3.21	497	4.14	530	5.14	561	6.15	619	8.31	678	10.70				
22000	929	476	3.12	489	3.60	516	4.59	546	5.60	576	6.64	633	8.89						
23000	971	496	3.50	508	4.00	534	5.04	562	6.08	592	7.19	647	9.49						
24000	1014	517	3.94	528	4.45	553	5.54	579	6.62	608	7.77	661	10.10						
25000	1056	538	4.43	549	4.96	571	6.04	597	7.21	624	8.37	676	10.80						
26000	1098	559	4.95	569	5.48	591	6.64	614	7.79	640	9.00								
27000	1140	579	5.48	589	6.03	610	7.23	632	8.43	657	9.70								
28000	1183	600	6.08	609	6.63	629	7.86	651	9.14	674	10.40								
29000	1225	621	6.72	630	7.31	649	8.55	669	9.84										
30000	1267	641	7.36	650	7.99	669	9.30	688	10.60										

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). **Shaded area indicates reinforced wheel.**

Description: Fan shall be duct mounted, belt driven high pressure centrifugal square inline.

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).

Construction: The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. Housing shall be minimum 18 gauge steel with airflow straightening vanes and integral duct flanges. Adjustable motor plate shall utilize threaded studs for positive belt tensioning. Access door and mounting feet shall be located in the specified position. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM, static pressure and maximum fan RPM. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

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

Wheel: Wheel shall be centrifugal backward inclined, constructed of 100 percent aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

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

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

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

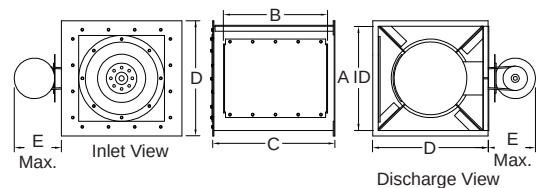
Product: Fan shall be model SQI-HP as manufactured by Loren Cook Company of Springfield, Missouri.

SQI-HP Dimensions

Size	A	B	C	D	E	Max. Mtr. Frame	Approx. Ship Wt.-Lbs*.
135	19-1/2	20-1/4	22-11/16	22-5/8	14-5/16	145T	200
150	21-5/8	22-13/16	25-1/4	24-3/4	14-5/16	145T	250
165	23-13/16	25-5/16	27-3/4	26-15/16	14-5/16	182T	255
180	26	27-13/16	30-1/4	29-1/8	14-5/16	182T	275
195	28-3/16	30-1/8	32-3/4	31-5/16	14-5/16	182T	325
210	30-3/8	32-5/8	35-1/4	33-1/2	14-5/16	182T	375
225	32-1/2	35-3/16	37-13/16	35-5/8	17-1/2	184T	425
245	35-3/8	38-9/16	41-3/16	38-1/2	17-1/2	213T	425
270	39	42-3/4	45-3/8	42-1/8	17-1/2	213T	450
300	43-7/16	47-13/16	50-7/16	46-1/2	17-1/2	213T	475
330	47-5/8	52-13/16	55-7/16	50-3/4	17-1/2	215T	555
365	52-3/4	58-15/16	61-3/8	55-7/8	17-1/2	215T	652
402	58-3/8	61-3/4	64-1/4	61-1/2	17-1/2	254T	750

All dimensions in inches. *Weights in pounds, less motor and drives.

Square Centrifugal High Pressure Inline Blower Belt Drive



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

SQI-HP Performance Data

135 SQI-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
675	255	824	.06	1037	.11	1399	.25	1690	.40	1935	.58								
750	284	867	.07	1064	.12	1413	.26	1702	.43	1946	.61								
825	312	912	.08	1097	.14	1429	.28	1714	.45	1959	.64	2174	.84						
900	340	960	.09	1135	.15	1449	.30	1726	.48	1970	.67	2186	.88	2381	1.10				
975	369	1009	.11	1177	.17	1473	.32	1742	.51	1982	.71	2198	.92	2393	1.15	2739	1.64		
1050	397	1060	.12	1220	.19	1501	.35	1760	.53	1996	.74	2210	.97	2405	1.20				
1125	426	1113	.14	1265	.21	1533	.37	1781	.56	2011	.78	2222	1.01	2417	1.25				
1200	454	1166	.16	1311	.24	1568	.40	1806	.60	2029	.82	2236	1.05	2429	1.30				
1275	482	1221	.18	1359	.26	1607	.44	1834	.63	2050	.86	2252	1.10	2442	1.36				
1350	511	1276	.21	1408	.29	1648	.47	1865	.67	2073	.90	2271	1.15	2457	1.41				
1425	539	1332	.23	1458	.32	1690	.51	1899	.71	2100	.95	2292	1.20	2474	1.47				
1500	568	1388	.26	1510	.35	1734	.55	1936	.76	2128	.99	2315	1.25	2493	1.52				
1575	596	1445	.30	1562	.39	1779	.59	1975	.81	2160	1.05	2341	1.31	2514	1.58				
1650	624	1502	.33	1616	.43	1825	.64	2016	.86	2195	1.10	2369	1.37	2538	1.65				
1725	653	1559	.37	1670	.47	1872	.69	2059	.92	2232	1.17	2400	1.43						
1800	681	1617	.41	1724	.52	1920	.74	2102	.98	2271	1.23	2433	1.50						
1875	710	1675	.45	1780	.57	1968	.80	2147	1.04	2311	1.30	2468	1.57						
1950	738	1733	.50	1835	.62	2018	.85	2192	1.11	2353	1.37	2506	1.65						
2025	767	1792	.55	1891	.67	2069	.92	2238	1.18	2396	1.45								
2100	795	1851	.60	1947	.73	2120	.98	2284	1.25	2440	1.53								
2175	823	1910	.66	2003	.79	2173	1.05	2332	1.33	2485	1.61								

150 SQI-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	184	849	.08	1035	.14	1326	.28	1575	.46	1794	.65								
675	207	904	.09	1081	.16	1364	.31	1600	.49	1814	.69	2007	.91						
750	230	961	.11	1131	.18	1406	.35	1631	.53	1837	.74	2027	.97	2201	1.21				
825	253	1021	.13	1183	.21	1450	.38	1670	.57	1865	.78	2049	1.02	2221	1.27				
900	276	1084	.15	1238	.24	1495	.42	1712	.62	1900	.84	2076	1.08	2243	1.34	2551	1.90		
975	300	1149	.18	1293	.27	1542	.46	1755	.68	1940	.90	2110	1.15	2270	1.41	2571	1.98		
1050	323	1215	.21	1351	.30	1592	.50	1799	.73	1983	.97	2148	1.22	2302	1.48	2594	2.07		
1125	346	1282	.25	1410	.34	1644	.55	1845	.79	2026	1.04	2189	1.30	2340	1.57	2621	2.16		
1200	369	1350	.29	1472	.39	1697	.61	1893	.85	2070	1.11	2231	1.38	2380	1.67				
1275	392	1419	.33	1535	.44	1752	.67	1943	.92	2115	1.18	2275	1.47	2422	1.77				
1350	415	1488	.38	1599	.49	1807	.73	1994	.99	2163	1.27	2319	1.56	2465	1.87				
1425	438	1557	.44	1665	.55	1864	.80	2047	1.07	2212	1.35	2364	1.65	2509	1.98				
1500	461	1627	.50	1732	.62	1922	.87	2101	1.15	2262	1.45	2412	1.75	2553	2.08				
1575	484	1697	.56	1799	.69	1982	.95	2155	1.24	2314	1.55	2461	1.86	2599	2.20				
1650	507	1768	.63	1867	.76	2042	1.04	2211	1.34	2367	1.65	2511	1.98						
1725	530	1839	.71	1935	.85	2104	1.13	2268	1.44	2421	1.77	2562	2.10						
1800	553	1910	.79	2004	.94	2168	1.23	2325	1.55	2475	1.88								
1875	576	1979	.88	2073	1.03	2232	1.34	2383	1.66	2530	2.01								
1950	600	2052	.98	2141	1.14	2298	1.45	2444	1.78	2586	2.14								

165 SQI-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1100	279	805	.10	964	.18	1231	.37	1464	.58										
1250	317	873	.13	1016	.21	1270	.41	1487	.64	1688	.89								
1400	355	944	.16	1073	.25	1314	.46	1520	.69	1710	.96	1888	1.24						
1550	393	1015	.19	1136	.29	1362	.51	1560	.76	1739	1.03	1909	1.33	2070	1.65				
1700	431	1086	.23	1204	.34	1413	.57	1605	.83	1777	1.11	1938	1.43	2091	1.75	2380	2.45		
1850	469	1158	.28	1274	.39	1467	.63	1652	.91	1819	1.20	1973	1.52	2120	1.86	2398	2.59		
2000	507	1231	.33	1344	.45	1526	.71	1702	1.00	1864	1.30	2014	1.63	2155	1.98	2421	2.73		
2150	545	1305	.39	1415	.52	1589	.79	1754	1.09	1912	1.41	2058	1.75	2195	2.11	2451	2.88		
2300	584	1379	.46	1486	.60	1655	.88	1810	1.19	1962	1.53	2105	1.88	2238	2.25	2486	3.04		
2450	622	1455	.54	1557	.68	1724	.98	1869	1.30	2014	1.65	2153	2.02	2284	2.40	2525	3.20		
2600	660	1531	.62	1630	.78	1794	1.09	1932	1.42	2069	1.78	2204	2.17	2331	2.56				
2750	698	1607	.71	1703	.88	1864	1.21	1997	1.55	2126	1.92	2255	2.32	2381	2.73				
2900	736	1684	.82	1775	.99	1935	1.35	2065	1.70	2187	2.07	2310	2.48	2431	2.91				
3050	774	1762	.93	1850	1.12	2005	1.48	2134	1.86	2251	2.24	2368	2.66	2484	3.09				
3200	812	1840	1.06	1924	1.25	2076	1.64	2204	2.03	2317	2.42	2428	2.84	2540	3.30				
3350	850	1917	1.19	2000	1.40	2148	1.80	2274	2.21	2385	2.62	2491	3.05						
3500	888	1996	1.34	2075	1.55	2219	1.97	2345	2.40	2454	2.83	2556	3.27						
3650	926	2076	1.51	2151	1.72	2292	2.16	2415	2.60	2524	3.05								
3800	964	2155	1.68	2228	1.91	2364	2.36	2487	2.83	2594	3.28								
3950	1003	2233	1.87	2304	2.10	2438	2.58	2557	3.05										

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). Model SQI-HP is not licensed to bear the AMCA Seal.

180 SQI-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1900	405	828	.20	948	.31	1154	.56	1344	.85	1521	1.18								
2050	437	873	.23	988	.35	1186	.61	1364	.91	1536	1.25	1694	1.61						
2200	469	920	.26	1029	.39	1220	.67	1389	.97	1552	1.31	1708	1.69						
2350	501	968	.30	1071	.44	1256	.73	1418	1.04	1573	1.39	1723	1.77	1865	2.18				
2500	533	1016	.34	1115	.49	1293	.79	1450	1.12	1597	1.47	1740	1.86	1880	2.28				
2650	565	1064	.39	1159	.54	1331	.86	1484	1.20	1625	1.56	1762	1.96	1896	2.38	2148	3.30		
2800	597	1114	.44	1205	.60	1370	.93	1519	1.29	1656	1.66	1786	2.06	1915	2.50				
2950	628	1164	.50	1251	.67	1411	1.01	1555	1.38	1688	1.77	1814	2.18	1937	2.61				
3100	660	1214	.57	1297	.73	1452	1.10	1593	1.48	1722	1.88	1844	2.30	1963	2.74				
3250	692	1265	.64	1345	.81	1494	1.19	1631	1.58	1758	1.99	1877	2.43	1991	2.88				
3400	724	1316	.71	1393	.89	1537	1.28	1671	1.69	1795	2.12	1911	2.56	2021	3.02				
3550	756	1367	.79	1441	.98	1581	1.39	1711	1.81	1832	2.25	1946	2.71	2054	3.18				
3700	788	1418	.88	1490	1.08	1625	1.49	1752	1.93	1870	2.38	1982	2.86						
3850	820	1470	.98	1539	1.18	1670	1.61	1793	2.06	1909	2.53	2018	3.01						
4000	852	1522	1.08	1589	1.29	1716	1.73	1836	2.20	1949	2.68	2056	3.18						
4150	884	1574	1.19	1639	1.40	1762	1.86	1879	2.34	1989	2.84								
4300	916	1626	1.31	1689	1.53	1809	2.00	1922	2.49	2030	3.00								
4450	948	1678	1.43	1739	1.66	1855	2.14	1966	2.65	2072	3.18								
4600	980	1732	1.57	1790	1.80	1903	2.30	2011	2.82										
4750	1012	1785	1.71	1841	1.95	1951	2.46	2056	3.00										

195 SQI-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1900	344	679	.17	797	.29	1019	.57	1204	.89	1369	1.24								
2100	380	725	.21	834	.33	1041	.62	1223	.96	1383	1.33								
2300	416	773	.25	875	.38	1066	.67	1245	1.03	1400	1.42	1543	1.83						
2500	452	822	.30	918	.44	1095	.74	1267	1.11	1420	1.51	1559	1.94	1688	2.39				
2700	489	872	.35	963	.50	1129	.82	1290	1.19	1442	1.61	1578	2.06	1704	2.53				
2900	525	923	.41	1009	.57	1166	.91	1317	1.28	1464	1.71	1599	2.17	1723	2.66				
3100	561	974	.48	1056	.64	1206	1.00	1348	1.39	1488	1.82	1621	2.30	1744	2.80				
3300	597	1026	.55	1105	.73	1247	1.11	1382	1.51	1514	1.94	1643	2.42	1765	2.95				
3500	634	1079	.64	1154	.82	1290	1.22	1418	1.63	1543	2.07	1667	2.56	1787	3.09				
3700	670	1132	.73	1203	.92	1335	1.34	1457	1.77	1576	2.23	1694	2.72	1810	3.25				
3900	706	1185	.83	1254	1.04	1380	1.46	1498	1.92	1611	2.39	1723	2.88						
4100	742	1239	.95	1305	1.16	1426	1.60	1540	2.08	1649	2.57	1756	3.08						
4300	778	1293	1.07	1356	1.29	1473	1.75	1583	2.24	1688	2.76	1791	3.28						
4500	815	1346	1.21	1408	1.44	1522	1.91	1627	2.42	1729	2.96								
4700	851	1401	1.36	1460	1.59	1570	2.09	1672	2.61	1771	3.16								
4900	887	1456	1.52	1512	1.76	1619	2.27	1719	2.81										

210 SQI-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2300	358	672	.23	782	.37	967	.69	1140	1.07										
2450	382	703	.26	806	.40	985	.73	1150	1.12	1305	1.55								
2600	405	734	.29	831	.44	1005	.78	1162	1.18	1313	1.62								
2750	429	767	.33	856	.48	1027	.83	1176	1.23	1322	1.69	1459	2.17						
2900	452	799	.37	883	.53	1050	.89	1194	1.30	1333	1.76	1468	2.26	1593	2.78				
3050	475	831	.41	911	.58	1073	.95	1213	1.37	1346	1.83	1477	2.34	1601	2.88				
3200	499	865	.46	940	.63	1097	1.02	1233	1.44	1361	1.91	1487	2.43	1609	2.98				
3350	522	898	.52	971	.69	1121	1.08	1255	1.52	1378	2.00	1499	2.52	1618	3.08				
3500	546	931	.57	1002	.75	1145	1.15	1278	1.61	1397	2.09	1513	2.62	1629	3.19				
3650	569	965	.63	1033	.82	1170	1.23	1301	1.70	1418	2.19	1530	2.73						
3800	592	998	.70	1065	.89	1195	1.31	1325	1.79	1439	2.30	1548	2.84						
3950	616	1032	.77	1097	.97	1221	1.40	1349	1.89	1462	2.41	1567	2.96						
4100	639	1066	.84	1130	1.05	1248	1.49	1373	1.99	1484	2.52	1588	3.08						
4250	663	1100	.92	1162	1.14	1277	1.59	1397	2.10	1508	2.64	1609	3.21						
4400	686	1134	1.00	1195	1.23	1305	1.69	1421	2.21	1532	2.77								
4550	709	1169	1.10	1228	1.33	1335	1.81	1446	2.33	1555	2.89								
4700	733	1203	1.19	1261	1.43	1365	1.92	1472	2.45	1580	3.03								
4850	756	1238	1.30	1294	1.54	1396	2.04	1498	2.58	1604	3.17								
5000	780	1272	1.40	1328	1.65	1427	2.17	1525	2.72										

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). Model SQI-HP is not licensed to bear the AMCA Seal.

SQI-HP Performance Data

225 SQI-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3000	408	665	.32	757	.49	917	.87	1067	1.31	1206	1.79								
3250	442	703	.37	793	.55	943	.95	1085	1.41	1219	1.91								
3500	476	742	.43	829	.63	973	1.05	1106	1.51	1234	2.03	1355	2.58						
3750	510	782	.50	866	.71	1004	1.15	1130	1.63	1253	2.17	1369	2.73	1481	3.34				
4000	544	823	.58	904	.80	1037	1.26	1157	1.76	1274	2.31	1386	2.90	1494	3.52				
4250	579	864	.66	941	.89	1072	1.38	1187	1.90	1297	2.46	1405	3.07	1509	3.70	1706	5.07		
4500	613	906	.76	979	1.00	1108	1.52	1218	2.05	1323	2.63	1426	3.24	1527	3.90	1718	5.29		
4750	647	949	.87	1018	1.12	1144	1.66	1250	2.21	1352	2.81	1450	3.44	1547	4.11				
5000	681	992	.98	1057	1.24	1180	1.80	1284	2.39	1382	3.00	1476	3.64	1569	4.33				
5250	715	1035	1.11	1097	1.38	1217	1.96	1319	2.57	1413	3.20	1504	3.87	1593	4.56				
5500	749	1079	1.25	1138	1.53	1254	2.14	1355	2.77	1446	3.42	1534	4.10	1619	4.81				
5750	783	1123	1.40	1178	1.69	1292	2.32	1391	2.98	1480	3.66	1565	4.35	1647	5.08				
6000	817	1166	1.56	1220	1.87	1329	2.52	1427	3.20	1514	3.90	1597	4.62	1677	5.36				
6250	851	1211	1.75	1262	2.06	1367	2.73	1464	3.43	1550	4.16	1630	4.90						
6500	885	1256	1.94	1304	2.26	1405	2.95	1501	3.68	1586	4.43	1664	5.19						
6750	919	1301	2.15	1347	2.48	1444	3.19	1538	3.94	1622	4.71	1699	5.50						
7000	953	1345	2.37	1390	2.71	1483	3.44	1576	4.22	1659	5.02								
7250	987	1389	2.60	1433	2.95	1523	3.71	1613	4.51	1696	5.34								
7500	1021	1433	2.85	1477	3.22	1563	3.99	1651	4.82										

245 SQI-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3900	448	657	.46	735	.68	877	1.17	1002	1.72	1121	2.35								
4200	483	696	.55	769	.77	904	1.29	1025	1.86	1137	2.49								
4500	517	734	.64	805	.88	933	1.42	1050	2.01	1157	2.65	1260	3.36						
4800	552	774	.74	841	.99	963	1.56	1076	2.17	1179	2.82	1277	3.54	1374	4.33				
5100	586	814	.85	878	1.12	994	1.70	1104	2.35	1204	3.02	1298	3.75	1390	4.54				
5400	621	853	.97	915	1.26	1027	1.87	1132	2.53	1230	3.23	1321	3.98	1409	4.78				
5700	655	894	1.11	953	1.41	1061	2.05	1161	2.73	1257	3.46	1346	4.22	1431	5.04	1595	6.82		
6000	690	935	1.26	992	1.58	1095	2.23	1192	2.95	1285	3.70	1372	4.48	1454	5.31	1611	7.10		
6300	724	975	1.42	1030	1.76	1130	2.44	1224	3.18	1313	3.95	1399	4.76	1480	5.61	1631	7.42		
6600	759	1016	1.60	1070	1.96	1166	2.66	1256	3.42	1343	4.22	1426	5.05	1506	5.93	1653	7.76		
6900	794	1058	1.80	1109	2.17	1202	2.90	1290	3.68	1373	4.50	1454	5.36	1532	6.26	1677	8.14		
7200	828	1099	2.01	1149	2.40	1240	3.16	1324	3.96	1405	4.81	1483	5.69	1560	6.62				
7500	863	1140	2.23	1189	2.64	1277	3.43	1359	4.26	1437	5.13	1513	6.03	1588	6.99				
7800	897	1182	2.48	1228	2.89	1315	3.73	1394	4.57	1470	5.46	1544	6.40	1617	7.38				
8100	932	1224	2.75	1269	3.18	1353	4.04	1430	4.91	1504	5.82	1576	6.78	1646	7.77				
8400	966	1266	3.03	1310	3.48	1391	4.37	1467	5.27	1539	6.21	1608	7.18	1677	8.21				
8700	1001	1308	3.33	1350	3.79	1430	4.72	1504	5.65	1573	6.60	1641	7.60						
9000	1035	1349	3.64	1391	4.13	1469	5.09	1541	6.05	1609	7.03	1675	8.05						
9300	1070	1391	3.98	1433	4.50	1508	5.48	1579	6.48	1645	7.48								
9600	1104	1434	4.36	1474	4.88	1548	5.90	1616	6.91	1681	7.94								

270 SQI-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4200	397	534	.40	616	.65	755	1.19	885	1.84	1000	2.54								
4550	430	564	.47	643	.73	772	1.29	899	1.95	1010	2.69								
4900	464	594	.54	671	.82	793	1.40	914	2.09	1024	2.85	1123	3.65						
5250	497	625	.63	699	.92	818	1.53	929	2.22	1038	3.01	1135	3.85	1227	4.73				
5600	530	656	.72	728	1.03	844	1.67	947	2.37	1053	3.18	1149	4.04	1238	4.96				
5950	563	688	.82	756	1.15	871	1.82	968	2.54	1068	3.36	1164	4.25	1252	5.20	1414	7.18		
6300	596	721	.94	786	1.28	899	1.99	992	2.73	1084	3.55	1178	4.46	1266	5.44	1424	7.49		
6650	629	753	1.06	815	1.42	927	2.17	1018	2.94	1104	3.77	1194	4.70	1281	5.69	1437	7.81		
7000	662	787	1.20	846	1.57	955	2.36	1045	3.16	1126	4.00	1210	4.93	1295	5.94	1451	8.13		
7350	696	820	1.34	877	1.74	983	2.56	1072	3.40	1151	4.26	1229	5.19	1310	6.21				
7700	729	854	1.51	908	1.91	1011	2.77	1100	3.65	1177	4.54	1251	5.49	1327	6.51				
8050	762	888	1.68	939	2.10	1040	3.00	1127	3.91	1204	4.84	1275	5.80	1347	6.84				
8400	795	922	1.87	971	2.31	1068	3.23	1155	4.19	1231	5.15	1300	6.13	1368	7.18				
8750	828	956	2.08	1004	2.53	1098	3.50	1183	4.48	1259	5.48	1327	6.50	1392	7.55				
9100	861	991	2.30	1036	2.76	1127	3.76	1212	4.79	1286	5.82	1354	6.88	1417	7.95				
9450	894	1026	2.54	1070	3.03	1157	4.05	1240	5.11	1314	6.18	1381	7.27						
9800	928	1061	2.80	1103	3.30	1187	4.35	1268	5.44	1342	6.56	1409	7.68						
10150	961	1095	3.07	1136	3.58	1218	4.67	1297	5.80	1370	6.95	1436	8.10						
10500	994	1130	3.36	1170	3.89	1249	5.01	1326	6.17	1398	7.36								
10850	1027	1164	3.66	1204	4.22	1280	5.37	1356	6.57	1427	7.80								

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). Model SQI-HP is not licensed to bear the AMCA Seal. **Shaded area indicates reinforced wheel required.**

300 SQI-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5700	436	506	.61	573	.93	691	1.63	801	2.46	904	3.41								
6050	462	528	.68	592	1.02	706	1.74	812	2.60	911	3.56								
6400	489	552	.77	612	1.12	723	1.87	824	2.74	920	3.71	1011	4.78						
6750	516	575	.86	633	1.23	740	2.01	837	2.89	930	3.88	1019	4.98						
7100	543	599	.96	654	1.34	758	2.15	851	3.05	941	4.05	1027	5.16	1109	6.34				
7450	570	623	1.07	676	1.47	777	2.32	867	3.23	953	4.24	1037	5.36	1117	6.57				
7800	596	648	1.19	698	1.60	796	2.48	883	3.41	966	4.44	1048	5.58	1126	6.80				
8150	623	672	1.32	721	1.75	815	2.66	901	3.62	981	4.66	1059	5.80	1136	7.04				
8500	650	697	1.46	744	1.91	834	2.84	919	3.84	996	4.89	1072	6.05	1146	7.29				
8850	677	722	1.61	767	2.07	854	3.04	937	4.06	1012	5.13	1085	6.30	1158	7.57				
9200	703	747	1.77	790	2.24	875	3.26	955	4.30	1029	5.40	1100	6.58	1170	7.85				
9550	730	772	1.94	814	2.43	896	3.48	974	4.55	1047	5.68	1116	6.88	1183	8.15				
9900	757	798	2.13	838	2.63	917	3.71	993	4.81	1065	5.97	1132	7.19						
10250	784	823	2.33	862	2.85	938	3.94	1013	5.10	1083	6.28	1149	7.51						
10600	811	848	2.53	886	3.07	960	4.20	1033	5.39	1102	6.60	1167	7.87						
10950	837	873	2.75	911	3.31	982	4.47	1053	5.69	1121	6.94	1185	8.23						
11300	864	899	2.99	935	3.56	1005	4.76	1073	6.00	1140	7.29								
11650	891	925	3.25	959	3.82	1027	5.04	1094	6.33	1159	7.64								
12000	918	951	3.52	985	4.12	1050	5.36	1115	6.68	1179	8.03								
12350	944	977	3.80	1009	4.40	1073	5.68	1137	7.04										

330 SQI-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
7200	457	482	.81	541	1.22	646	2.12	741	3.14	833	4.33								
7650	485	504	.92	561	1.34	662	2.29	753	3.33	841	4.52								
8100	514	527	1.04	582	1.48	679	2.46	767	3.53	850	4.72	932	6.07						
8550	542	550	1.17	603	1.63	697	2.66	782	3.76	862	4.97	940	6.31						
9000	571	573	1.31	624	1.80	716	2.87	798	4.00	875	5.23	949	6.57	1023	8.06				
9450	600	597	1.47	645	1.97	734	3.07	814	4.25	889	5.51	961	6.87	1031	8.35				
9900	628	621	1.64	667	2.16	754	3.31	831	4.52	904	5.81	973	7.18	1041	8.67				
10350	657	645	1.83	689	2.36	773	3.54	849	4.81	920	6.13	987	7.52	1052	9.01				
10800	685	669	2.03	712	2.59	793	3.79	867	5.10	936	6.46	1001	7.87	1065	9.41				
11250	714	693	2.24	735	2.83	813	4.06	886	5.42	953	6.82	1017	8.27	1078	9.80				
11700	742	718	2.48	757	3.07	834	4.35	905	5.75	971	7.20	1033	8.68	1093	10.20				
12150	771	743	2.73	781	3.35	855	4.66	924	6.08	988	7.57	1049	9.10	1108	10.70				
12600	800	767	2.99	804	3.63	876	4.98	944	6.45	1007	7.99	1066	9.54						
13050	828	791	3.27	828	3.94	898	5.33	963	6.81	1025	8.39	1084	10.00						
13500	857	816	3.57	852	4.27	919	5.68	984	7.22	1044	8.83	1102	10.50						
13950	885	842	3.91	875	4.60	941	6.07	1004	7.62	1064	9.30	1120	11.00						
14400	914	867	4.26	899	4.97	963	6.47	1025	8.07	1083	9.76								
14850	942	892	4.62	923	5.35	986	6.91	1046	8.53	1103	10.30								
15300	971	917	5.00	948	5.77	1008	7.34	1067	9.01	1123	10.80								
15750	1000	942	5.41	972	6.19	1031	7.82	1088	9.50										

365 SQI-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9800	507	463	1.20	512	1.76	603	2.97	683	4.26	759	5.70								
10200	527	478	1.31	526	1.89	614	3.13	692	4.45	765	5.89								
10600	548	493	1.42	539	2.02	625	3.30	702	4.66	773	6.12								
11000	569	508	1.54	553	2.16	637	3.49	712	4.88	781	6.35	849	7.99						
11400	590	523	1.67	567	2.31	648	3.66	722	5.09	790	6.60	856	8.25						
11800	610	538	1.81	581	2.46	660	3.86	733	5.33	800	6.88	863	8.51						
12200	631	553	1.95	595	2.62	672	4.06	744	5.58	809	7.13	872	8.82	933	10.60				
12600	652	569	2.12	609	2.79	685	4.28	755	5.83	819	7.42	880	9.11	940	10.90				
13000	672	584	2.28	623	2.96	697	4.49	766	6.08	830	7.73	890	9.46						
13400	693	600	2.46	638	3.16	710	4.72	778	6.36	840	8.02	899	9.78						
13800	714	615	2.63	653	3.37	723	4.96	789	6.62	851	8.35	909	10.10						
14200	734	631	2.83	667	3.56	736	5.20	801	6.91	862	8.67	919	10.50						
14600	755	647	3.04	682	3.79	749	5.45	813	7.20	873	9.01	929	10.80						
15000	776	663	3.26	697	4.02	763	5.72	825	7.50	884	9.34								
15400	797	679	3.49	712	4.26	776	5.98	838	7.84	896	9.72								
15800	817	694	3.72	727	4.51	790	6.27	850	8.15	907	10.10								
16200	838	710	3.97	743	4.79	804	6.57	863	8.49	919	10.40								
16600	859	726	4.23	758	5.07	818	6.88	876	8.84	931	10.80								
17000	879	742	4.51	773	5.35	832	7.20	888	9.17										

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). Model SQI-HP is not licensed to bear the AMCA Seal. **Shaded area indicates reinforced wheel required.**

402 SQI-HP

CFM	OV	0.250" SP		0.500" SP		1.000" SP		1.500" SP		2.000" SP		2.500" SP		3.000" SP		4.000" SP		5.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
9600	405	362	.93	416	1.47	511	2.71	596	4.17	673	5.81								
10350	437	382	1.08	433	1.65	523	2.93	605	4.40	680	6.13								
11100	469	403	1.25	450	1.83	537	3.18	615	4.68	688	6.42	756	8.33						
11850	500	423	1.43	468	2.05	552	3.46	627	5.01	698	6.76	763	8.70	825	10.70				
12600	532	445	1.65	486	2.27	568	3.76	639	5.34	708	7.11	772	9.08	832	11.20				
13350	564	466	1.87	506	2.54	584	4.07	653	5.72	719	7.52	781	9.47	840	11.70				
14100	595	488	2.13	526	2.83	600	4.40	668	6.13	731	7.97	791	9.92	849	12.10				
14850	627	509	2.40	546	3.14	617	4.76	683	6.54	744	8.44	802	10.40	859	12.60				
15600	659	531	2.70	567	3.49	634	5.14	699	7.00	758	8.95	814	11.00	869	13.20				
16350	690	553	3.03	587	3.84	652	5.55	715	7.47	772	9.46	827	11.60	880	13.80				
17100	722	576	3.40	608	4.23	670	5.99	731	7.96	788	10.00	841	12.20	892	14.50				
17850	754	598	3.78	630	4.68	689	6.48	748	8.49	803	10.60	855	12.80	905	15.20				
18600	786	620	4.19	651	5.12	708	6.98	764	9.01	819	11.20	870	13.50	918	15.90				
19350	817	643	4.65	672	5.59	728	7.55	782	9.62	835	11.90	886	14.30						
20100	849	666	5.14	694	6.12	748	8.14	800	10.30	852	12.60	901	15.00						
20850	881	688	5.65	716	6.68	768	8.75	818	10.90	869	13.30	917	15.80						
21600	912	711	6.20	738	7.27	788	9.40	837	11.60	886	14.00								
22350	944	733	6.77	760	7.90	809	10.10	856	12.40	903	14.80								
23100	976	755	7.37	782	8.56	830	10.90	875	13.20	921	15.70								
23850	1007	779	8.08	804	9.26	851	11.60	895	14.00	939	16.50								

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). Model SQI-HP is not licensed to bear the AMCA Seal. **Shaded area indicates reinforced wheel required.**

Description: Fan shall be a spun aluminum, duct mounted, direct driven, mixed-flow fan.

Certifications: 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 bolted and welded construction utilizing corrosion resistant fasteners. The spun aluminum housing shall be constructed of minimum .100 thick marine alloy aluminum with inlet and outlet flanges. Straightening vanes shall be utilized for uniform airflow. The adjustable mounting brackets shall be constructed of minimum .125 thick aluminum with extruded rubber isolation between bracket and fan housing. Unit shall bear an engraved aluminum nameplate and shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel: Wheel shall be a non-overloading design utilizing airfoil blades for maximum efficiency. The aluminum airfoil blades shall be welded to a spun aluminum dome. The dome shall be bolted to an aluminum hub assembly. The hub shall be keyed and locked to the fan shaft utilizing two setscrews. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

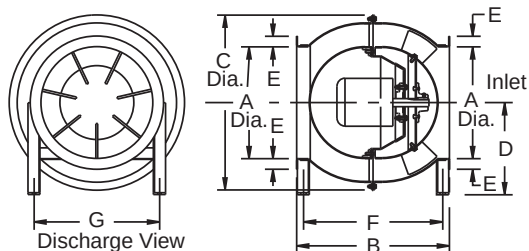
Motor: Motor shall be heavy duty type with permanently lubricated sealed bearings and furnished at the specified voltage, phase and enclosure.

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

Dimensions

Size	A	B	C	D	E	F	G	Wheel Diameter	Thickness of Alum.	Approx. Ship. Wt. - lbs.
8	8	13-1/4	13-7/16	7		11-1/4	10-1/4	10-1/4	.100	35
10	10	15	16-3/16	8-11/16		13	12-1/4	12-15/16		65
12	12	17-1/8	19-1/4	9-15/16	1-5/16	15-1/8	14-1/8	15-9/16	.125	82
14	14	19-1/8	22	11-7/16		17-1/8	16-1/4	18-1/4		93
16	16	21-9/16	24-7/8	12-11/16		19-9/16	18-1/4	20-15/16		120

All dimensions in inches. Weights in pounds. Sizes 18- 20 not available in 24 hour Express.



Centri-Vane® All Aluminum Mixed-Flow Fan Direct Drive



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



Model CVD is furnished standard with UL 705 and cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.

Catalog Number	Inlet/Outlet Dia.	Motor H.P.	Max. BHP	Fan RPM	CFM and Outlet Velocity vs. Static Pressure													
					1/8"		1/4"		3/8"		1/2"		5/8"		3/4"		7/8"	
					CFM	OV	CFM	OV	CFM	OV	CFM	OV	CFM	OV	CFM	OV	CFM	OV
8CV15D	8	1/20	.045	1550	350	1002	254	727	127	363	50	143						
10CV11D	10	1/8	.042	1140	536	983	367	673	188	345	52	95						
10CV17D		1/6	.149	1725	890	1632	834	1529	747	1370	628	1151	504	924	381	699	271	497
12CV11D	12	1/8	.101	1140	1002	1276	873	1112	671	854	424	540	282	359	162	206		
12CV17D		1/3	.357	1725	1617	2059	1538	1958	1456	1854	1371	1746	1278	1627	1152	1467	990	1261
14CV11D	14	1/4	.248	1140	1817	1700	1646	1540	1471	1376	1270	1188	839	785	581	543	365	341
14CV17D		1	.859	1725	2855	2671	2776	2597	2679	2506	2561	2396	2440	2283	2323	2173	2212	2069
16CV11D	16	1/2	.498	1140	2872	2057	2735	1959	2567	1839	2355	1687	2061	1476	1672	1198	1315	942
16CV17D		2	1.729	1725	4439	3180	4367	3128	4296	3077	4198	3007	4096	2934	3985	2855	3867	2770

Catalog Number	Inlet/Outlet Dia.	Motor H.P.	Max. BHP	Fan RPM	CFM and Outlet Velocity vs. Static Pressure													
					1"		1-1/4"		1-1/2"		1-3/4"		2"		2-1/2"		3"	
					CFM	OV	CFM	OV	CFM	OV	CFM	OV	CFM	OV	CFM	OV	CFM	OV
8CV15D	8	1/20	.045	1550														
10CV11D	10	1/8	.042	1140														
10CV17D		1/6	.149	1725	176	328												
12CV11D	12	1/8	.101	1140														
12CV17D		1/3	.357	1725	811	1033	545	694	387	493	217	276						
14CV11D	14	1/4	.248	1140	151	141												
14CV17D		1	.859	1725	2100	1964	1705	1595	1159	1084	839	785	556	520				
16CV11D	16	1/2	.498	1140	953	683	469	336										
16CV17D		2	1.729	1725	3733	2674	3412	2444	2998	2148	2459	1762	1996	1430	1099	787	558	399

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). CFM based on fan inlet and outlet diameter. Inlet and outlet velocity are equal.

Description: Fan shall be a spun aluminum, duct mounted, belt driven, mixed-flow fan.

Certifications: 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 bolted and welded construction utilizing corrosion resistant fasteners. The spun aluminum housing shall be constructed of minimum .125 thick marine alloy aluminum with inlet and outlet flanges. Straightening vanes shall be utilized for uniform airflow. Extended lube lines shall be furnished for lubrication of fan bearings. Aluminum adjustable motor mounting plate shall utilize threaded studs for positive belt tensioning. The adjustable mounting brackets shall be constructed of minimum .125 thick aluminum with extruded rubber isolation between bracket and fan housing. Unit shall bear an engraved aluminum nameplate and shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel: Wheel shall be a non-overloading design utilizing airfoil blades for maximum efficiency. The aluminum airfoil blades shall be welded to a spun aluminum dome. The dome shall be bolted to an aluminum hub assembly. The hub shall be keyed and locked to the fan shaft utilizing two setscrews. 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 type in a cast iron housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

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

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

Centri-Vane® All Aluminum Mixed-Flow Fan Belt Drive



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

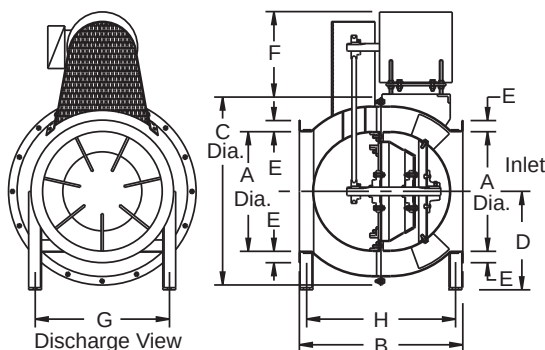


Model CVB is furnished standard with UL 705 and cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.

Dimensions

Size	A	B	C	D	E	F Max.	G	H	Wheel Diameter	Maximum Motor Frame	Approx. Ship. Wt. - lbs.
12	12	17-1/8	19-1/8	9-15/16	1-5/16	11-1/4	14-1/8	15-1/8	15-9/16	182T	68
14	14	19-1/8	22	11-7/16			16-1/4	17-1/8	18-1/4		81
16	16	21-9/16	24-7/8	12-11/16			18-1/4	19-9/16	20-15/16	184T	93
18	18	24-1/2	27-3/4	14			20-3/8	22-1/2	23-9/16		175
20	20	26-3/8	30-1/2	15-3/4		13-1/4	22-1/2	24-3/8	26-1/4	213T	204

All dimensions in inches. Weights in pounds, less motor.



12 CVB

CFM	OV	Static Pressure															
		1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		3" SP		4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	780	1000	.07	1263	.12	1466	.18	1641	.25	1949	.40	2196	.56	2569	.88	2856	1.21
700	910	1069	.08	1322	.15	1527	.22	1698	.28	1993	.44	2253	.61	2663	.99	2974	1.37
800	1040	1145	.10	1382	.18	1586	.25	1758	.33	2046	.49	2297	.67	2731	1.08	3069	1.52
900	1170	1227	.13	1448	.21	1644	.30	1817	.38	2104	.55	2349	.73	2779	1.16	3139	1.64
1000	1300	1315	.15	1519	.24	1706	.34	1876	.43	2165	.62	2407	.81	2824	1.24	3191	1.75
1100	1430	1407	.19	1595	.28	1772	.38	1936	.49	2224	.69	2467	.90	2876	1.34	3236	1.85
1200	1560	1503	.23	1675	.32	1842	.43	1999	.55	2282	.77	2527	1.00	2933	1.46	3283	1.97
1300	1690	1602	.27	1758	.37	1917	.49	2067	.61	2342	.86	2585	1.10	2993	1.59	3337	2.11
1400	1820	1704	.33	1847	.43	1995	.55	2138	.67	2404	.95	2644	1.21	3053	1.73		
1500	1950	1807	.39	1938	.49	2076	.61	2212	.75	2468	1.03	2704	1.32	3113	1.88		
1600	2080	1910	.46	2032	.56	2161	.69	2290	.83	2537	1.13	2765	1.44	3171	2.03		
1700	2210	2016	.54	2129	.64	2248	.77	2371	.92	2608	1.22	2829	1.55	3230	2.20		
1800	2340	2122	.63	2227	.73	2339	.86	2454	1.01	2682	1.33	2896	1.67	3289	2.36		
1900	2470	2227	.73	2328	.83	2432	.96	2541	1.12	2758	1.45	2966	1.80				
2000	2600	2336	.84	2430	.94	2527	1.08	2629	1.23	2837	1.57	3038	1.93				
2100	2730	2444	.96	2533	1.07	2625	1.20	2720	1.36	2918	1.71	3113	2.08				
2300	2990	2658	1.23	2740	1.35	2824	1.49	2909	1.64	3088	2.01	3268	2.40				
2500	3250	2878	1.57	2953	1.69	3027	1.82	3105	1.98	3266	2.35						
2700	3511	3099	1.96	3164	2.08	3235	2.22	3306	2.38								
2900	3771	3318	2.40														

14 CVB

CFM	OV	Static Pressure															
		1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		3" SP		4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
800	748	850	.09	1077	.17	1251	.24	1402	.33	1665	.53	1875	.75	2191	1.18	2436	1.62
925	865	904	.11	1123	.20	1298	.28	1445	.37	1701	.58	1923	.82	2269	1.32	2531	1.82
1050	982	962	.13	1170	.23	1345	.33	1492	.43	1741	.64	1959	.89	2327	1.44	2610	2.01
1175	1099	1025	.16	1220	.27	1391	.38	1539	.49	1786	.71	1997	.96	2369	1.54	2671	2.17
1300	1216	1093	.19	1275	.31	1439	.43	1586	.56	1833	.80	2041	1.05	2404	1.64	2718	2.31
1425	1333	1164	.23	1332	.35	1489	.49	1632	.62	1880	.89	2088	1.16	2441	1.75	2754	2.44
1550	1449	1238	.27	1393	.40	1542	.55	1680	.70	1926	.99	2135	1.27	2484	1.89	2789	2.58
1675	1566	1314	.32	1457	.46	1599	.61	1731	.77	1973	1.09	2182	1.40	2530	2.03	2829	2.74
1800	1683	1393	.38	1524	.52	1658	.68	1785	.85	2020	1.20	2228	1.53	2578	2.20	2872	2.92
1925	1800	1473	.45	1594	.59	1719	.76	1842	.93	2069	1.30	2275	1.67	2625	2.38		
2050	1917	1555	.53	1666	.67	1783	.84	1900	1.02	2120	1.41	2321	1.81	2672	2.57		
2175	2034	1636	.62	1741	.76	1850	.93	1961	1.12	2174	1.53	2370	1.95	2718	2.76		
2300	2151	1719	.72	1817	.86	1919	1.04	2025	1.23	2229	1.65	2420	2.10	2764	2.97		
2425	2268	1803	.83	1894	.97	1991	1.15	2090	1.35	2287	1.78	2473	2.25	2811	3.18		
2550	2385	1885	.95	1973	1.09	2064	1.27	2158	1.48	2346	1.92	2527	2.40				
2675	2502	1970	1.08	2053	1.23	2139	1.41	2227	1.62	2408	2.08	2583	2.57				
2800	2619	2056	1.23	2133	1.38	2215	1.56	2299	1.77	2471	2.24	2640	2.74				
3050	2853	2225	1.56	2297	1.72	2370	1.90	2446	2.11	2602	2.60	2760	3.13				
3300	3086	2395	1.95	2463	2.12	2530	2.30	2598	2.51	2741	3.02						
3550	3320	2569	2.41	2629	2.57	2692	2.77	2754	2.98								

16 CVB

CFM	OV	Static Pressure															
		1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		3" SP		4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1100	794	719	.12	920	.23	1069	.34	1195	.45	1408	.68	1587	.96	1884	1.58	2127	2.27
1300	938	763	.15	964	.27	1116	.40	1242	.53	1453	.79	1632	1.07	1933	1.72	2183	2.46
1500	1083	819	.19	1006	.32	1161	.46	1289	.62	1499	.92	1677	1.22	1979	1.89	2232	2.65
1700	1227	883	.23	1048	.38	1204	.54	1334	.70	1546	1.05	1724	1.39	2023	2.08	2277	2.86
1900	1371	947	.29	1095	.44	1245	.62	1377	.80	1593	1.17	1771	1.56	2069	2.32	2322	3.12
2100	1516	1010	.35	1152	.52	1287	.70	1418	.90	1638	1.30	1818	1.73	2115	2.57	2367	3.41
2300	1660	1077	.42	1216	.61	1334	.79	1460	1.01	1681	1.44	1863	1.89	2162	2.83	2413	3.75
2500	1805	1147	.50	1280	.71	1390	.90	1503	1.12	1722	1.59	1907	2.07	2209	3.09	2460	4.10
2700	1949	1221	.60	1343	.82	1451	1.03	1552	1.25	1763	1.76	1950	2.26	2256	3.33	2507	4.44
2900	2093	1296	.72	1405	.94	1515	1.18	1608	1.40	1805	1.92	1991	2.47	2301	3.59		
3100	2238	1372	.84	1471	1.07	1579	1.34	1670	1.58	1849	2.09	2032	2.68	2344	3.85		
3300	2382	1450	.99	1539	1.22	1642	1.50	1734	1.77	1899	2.29	2074	2.91	2387	4.15		
3500	2527	1528	1.15	1610	1.39	1705	1.67	1798	1.98	1955	2.51	2117	3.13	2428	4.45		
3700	2671	1607	1.34	1682	1.58	1769	1.86	1862	2.19	2015	2.76	2164	3.37	2469	4.78		
3900	2815	1686	1.53	1756	1.79	1836	2.07	1924	2.41	2078	3.04	2217	3.65	2510	5.10		
4300	3104	1846	2.00	1908	2.28	1976	2.57	2052	2.90	2207	3.66	2336	4.31				
4700	3393	2008	2.55	2063	2.85	2123	3.17	2188	3.50	2333	4.31	2463	5.08				
5100	3682	2170	3.21	2220	3.53	2274	3.86	2330	4.21	2459	5.01						
5500	3971	2333	3.97	2379	4.31	2427	4.67	2478	5.03								
5900	4259	2496	4.84														

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).

18 CVB

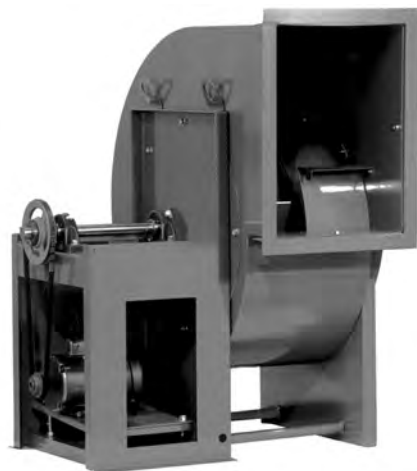
CFM	OV	Static Pressure															
		1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		3" SP		4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	845	655	.17	835	.31	968	.46	1080	.61	1268	.92	1428	1.27	1694	2.08	1912	2.97
1750	985	698	.21	873	.37	1009	.54	1121	.72	1308	1.07	1467	1.43	1735	2.26	1959	3.21
2000	1126	751	.26	909	.44	1048	.62	1162	.82	1350	1.23	1507	1.63	1774	2.48	2000	3.46
2250	1267	807	.32	947	.51	1084	.72	1201	.93	1391	1.39	1548	1.84	1814	2.75	2040	3.75
2500	1408	862	.39	991	.59	1121	.82	1238	1.06	1431	1.54	1590	2.06	1854	3.05	2079	4.08
2750	1549	919	.47	1044	.69	1158	.93	1274	1.19	1470	1.71	1631	2.26	1895	3.38	2119	4.47
3000	1690	979	.56	1100	.81	1202	1.05	1310	1.33	1507	1.89	1670	2.47	1937	3.70	2160	4.90
3250	1830	1042	.68	1157	.95	1253	1.19	1350	1.47	1543	2.09	1709	2.70	1978	4.01		
3500	1971	1106	.81	1212	1.09	1308	1.37	1395	1.64	1579	2.29	1745	2.95	2018	4.32		
3750	2112	1173	.96	1267	1.23	1365	1.56	1447	1.84	1616	2.50	1782	3.21	2057	4.64		
4000	2253	1241	1.12	1326	1.41	1421	1.76	1501	2.06	1656	2.72	1818	3.49	2095	4.98		
4250	2394	1309	1.31	1386	1.60	1476	1.96	1558	2.32	1702	2.97	1854	3.76	2132	5.36		
4500	2535	1378	1.52	1449	1.82	1531	2.18	1614	2.58	1752	3.26	1893	4.04				
4750	2676	1447	1.75	1513	2.07	1588	2.42	1670	2.85	1806	3.59	1936	4.36				
5000	2816	1517	2.01	1578	2.34	1647	2.70	1724	3.13	1862	3.95	1983	4.71				
5250	2957	1587	2.29	1645	2.64	1709	3.00	1780	3.43	1918	4.32	2035	5.11				
5500	3098	1658	2.61	1711	2.96	1772	3.34	1837	3.75	1975	4.72						
6000	3380	1799	3.31	1848	3.69	1900	4.09	1958	4.52								
6500	3661	1942	4.14	1986	4.55	2033	4.97	2083	5.41								
7000	3943	2085	5.10														

20 CVB

CFM	OV	Static Pressure															
		1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		3" SP		4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	692	505	.13	677	.27	808	.43	918	.59	1098	.95	1243	1.35	1479	2.23	1677	3.23
1850	853	551	.16	693	.32	830	.49	940	.69	1126	1.10	1279	1.53	1523	2.48	1723	3.54
2200	1015	606	.22	723	.37	846	.57	962	.77	1147	1.23	1304	1.72	1560	2.76	1766	3.89
2550	1176	665	.28	770	.45	870	.65	977	.87	1170	1.37	1325	1.90	1587	3.04	1802	4.26
2900	1338	729	.36	823	.54	911	.75	1000	.98	1188	1.51	1348	2.08	1609	3.33	1830	4.64
3250	1499	794	.46	879	.65	961	.87	1040	1.12	1203	1.66	1367	2.26	1631	3.59	1852	5.02
3600	1661	861	.57	940	.79	1015	1.02	1088	1.27	1229	1.83	1381	2.46	1654	3.86	1874	5.39
3950	1822	929	.71	1003	.94	1072	1.19	1140	1.45	1270	2.03	1402	2.68	1673	4.13	1896	5.73
4300	1984	999	.87	1067	1.12	1132	1.38	1195	1.65	1316	2.25	1435	2.92	1687	4.43	1918	6.09
4650	2145	1068	1.05	1133	1.33	1194	1.60	1253	1.89	1367	2.51	1478	3.20	1704	4.75	1936	6.47
5000	2307	1139	1.26	1200	1.56	1258	1.86	1313	2.15	1421	2.79	1525	3.50	1730	5.09	1950	6.86
5350	2468	1210	1.50	1268	1.81	1323	2.13	1375	2.45	1477	3.12	1576	3.84	1767	5.47	1966	7.28
5700	2630	1281	1.76	1337	2.10	1389	2.44	1439	2.78	1536	3.48	1629	4.22	1810	5.88	1991	7.73
6050	2791	1353	2.06	1406	2.42	1456	2.79	1503	3.14	1596	3.87	1685	4.64	1857	6.33	2026	8.23
6400	2953	1425	2.40	1475	2.77	1523	3.16	1569	3.54	1657	4.30	1743	5.10	1907	6.82		
6750	3114	1497	2.77	1546	3.17	1592	3.57	1636	3.98	1720	4.78	1802	5.60	1960	7.37		
7100	3276	1570	3.18	1617	3.60	1661	4.02	1703	4.44	1784	5.29	1862	6.14	2014	7.95		
7800	3599	1716	4.13	1759	4.58	1799	5.03	1839	5.50	1915	6.44	1987	7.36				
8500	3922	1863	5.26	1902	5.74	1940	6.23	1977	6.74	2048	7.76						
9200	4245	2009	6.56	2046	7.09	2082	7.62										

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).

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



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



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



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

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

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

Construction - The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper shall be minimum 14 gauge steel and the scroll side panels shall be minimum 12 gauge steel. The entire fan housing shall have continuously welded seams for leakproof operation. A performance cut-off shall be furnished to prevent the recirculation of air in the fan housing. The fan housing shall be field rotatable to any one of eight discharge positions and shall have a minimum 1-1/2 inch outlet discharge flange. Bearing support shall be minimum 10 gauge welded steel. Side access inspection ports shall be provided with quick release latches for access to the motor compartment without removing the weather cover. Lifting lugs shall be provided for ease of installation. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM, static pressure, and maximum fan RPM. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

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

Wheel - Wheel shall be centrifugal backward inclined, constructed of 100% aluminum, including a precision machined cast aluminum hub. Wheel hub shall be keyed and securely attached to the fan shaft. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

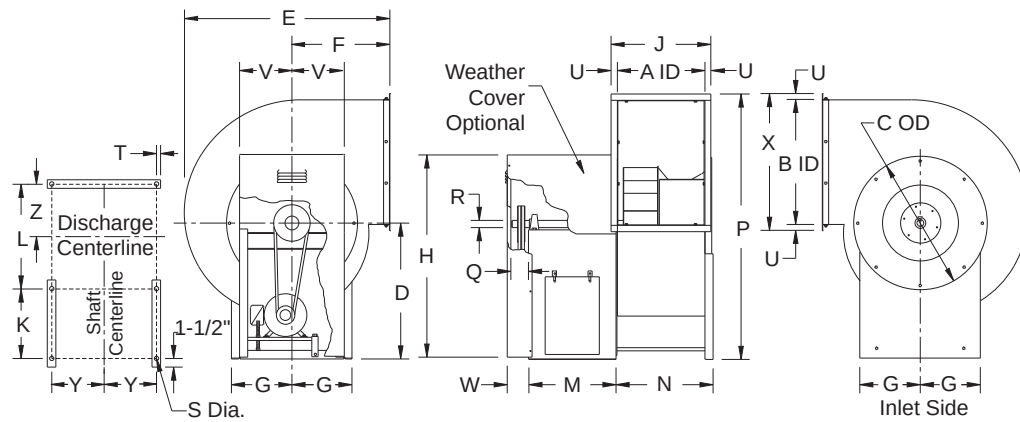
Motor - Motor shall be Nema design B with class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

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

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

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

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



Dimensions

Size	A	B	C	D	E	F	G	H**	J	K	L	M
60	7-9/16	10-15/16	14-1/8	18	22-1/4	12-3/4	9-3/8	25-1/4	10-3/4	10	10-1/4	13-1/8
70	7-9/16	10-15/16	14-1/8	18	22-1/4	12-3/4	9-3/8	25-1/4	10-3/4	10	10-1/4	13-1/8
80	7-9/16	10-15/16	14-1/8	18	22-1/4	12-3/4	9-3/8	25-1/4	10-3/4	10	10-1/4	13-1/8
100	7-9/16	10-15/16	14-1/8	18	22-1/4	12-3/4	9-3/8	25-1/4	10-3/4	10	10-1/4	13-1/8
120	9-3/16	13-1/8	16-1/8	18	24-13/16	13-3/8	9-3/8	26-1/4	12-3/8	10	11-7/8	13-1/8
135	10-5/16	14-3/4	17-5/8	18	26-11/16	13-7/8	9-3/8	27	13-1/2	12	13	15-1/8
150	11-7/16	16-7/16	19-1/8	19-1/16	29-9/16	15-5/16	9-3/8	29-1/16	14-5/8	12	14-1/8	15-1/8
165	12-5/8	18-1/16	21-3/16	20-7/16	32-1/16	16-3/8	9-3/8	31-7/16	15-13/16	12	15-5/16	15-1/8
180	13-3/4	19-11/16	22-11/16	22-1/16	34-3/4	17-5/8	10-3/8	33-9/16	16-15/16	12	16-7/16	15-1/8
195	14-15/16	21-5/16	24-3/16	23-11/16	36-5/16	17-13/16	10-3/8	35-11/16	18-3/16	15	17-5/8	18-1/8
210	16-1/16	23	25-15/16	25-3/8	39-15/16	20	11-3/8	38-7/8	19-5/16	15	18-3/4	18-1/8
225	17-3/16	24-5/8	27-7/16	27	42	20-5/8	11-7/8	41	20-7/16	15	19-7/8	18-1/8
245	18-3/4	26-13/16	29-7/16	29-5/8	45-1/16	21-3/4	13-3/8	44-5/8	23	15	21-11/16	18-1/8
270	20-5/8	29-9/16	31-15/16	32-3/8	49-1/16	23-3/8	14-3/8	48-7/8	24-7/8	18	23-9/16	21-1/8
300	22-15/16	32-13/16	34-15/16	35-5/8	54-3/8	25-7/8	15-5/16	53-5/8	27-3/16	18	26	21-3/16

Size	N	P**	Q	R	S	T	U**	V**	W	X	Y	Z	*Max. Motor Frame	Ship Wt.
60	9-3/8	30-3/8	3	3/4	9/16	3/4	1-5/8	8	4	14-1/16	8-5/8	4-5/8	145T	164
70	9-3/8	30-3/8	3	3/4	9/16	3/4	1-5/8	8	4	14-1/16	8-5/8	4-5/8	145T	164
80	9-3/8	30-3/8	3	3/4	9/16	3/4	1-5/8	8	4	14-1/16	8-5/8	4-5/8	145T	164
100	9-3/8	30-3/8	3	3/4	9/16	3/4	1-5/8	8	4	14-1/16	8-5/8	4-5/8	145T	164
120	11	32-9/16	3	3/4	9/16	3/4	1-5/8	8	4	16-5/16	8-5/8	5-7/16	184T	203
135	12-1/8	34-3/16	3	3/4	9/16	3/4	1-5/8	8	4	17-15/16	8-5/8	6	184T	235
150	13-1/4	37-1/8	3	3/4	9/16	3/4	1-5/8	8	4	19-5/8	8-5/8	6-9/16	184T	268
165	14-7/16	39-7/8	3	3/4	9/16	3/4	1-5/8	8	4	21-1/4	8-5/8	7-3/16	184T	303
180	15-9/16	43-1/8	3	1	9/16	3/4	1-5/8	9	4	22-7/8	9-5/8	7-3/4	215T	340
195	16-3/4	46-3/8	3	1	9/16	3/4	1-5/8	9	4	24-1/2	9-5/8	8-5/16	215T	379
210	17-7/8	49-3/4	4	1	9/16	3/4	1-5/8	10	5	26-3/16	10-5/8	8-7/8	215T	420
225	19	53	4	1	9/16	3/4	1-5/8	10-1/2	5	27-13/16	11-1/8	9-7/16	215T	465
245	21-1/16	58-1/4	4	1	11/16	1	2-1/8	11-1/2	5	31	12-3/8	10-1/2	215T	527
270	22-15/16	63-3/4	4	1	11/16	1	2-1/8	12-1/2	5	33-3/4	13-3/8	11-7/16	256T	613
300	25-5/16	71-1/4	4	1-3/16	11/16	1	2-1/8	13-1/2	5	37	14-5/16	12-5/8	256T	727

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

Sizes: 330 - 490 not available on Express.

60 CPV

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
50	87	875	.01	1196	.03																
70	121	915	.01	1235	.03	1476	.05	1691	.07	1886	.10										
90	156	966	.02	1278	.04	1524	.06	1724	.08	1905	.11	2075	.14	2235	.17	2386	.20				
110	191	1025	.02	1319	.04	1564	.06	1774	.09	1951	.12	2111	.15	2260	.18	2404	.21	2542	.25	2674	.29
130	226	1100	.02	1374	.05	1604	.07	1811	.10	1999	.13	2162	.16	2308	.20	2444	.23	2574	.27	2699	.30
150	261	1182	.03	1432	.05	1657	.08	1852	.11	2033	.14	2203	.18	2357	.21	2496	.25	2624	.29		
170	295	1263	.03	1502	.06	1713	.09	1904	.12	2076	.15	2238	.19	2393	.23	2538	.27	2673	.31		
190	330	1347	.04	1581	.07	1774	.10	1960	.13	2129	.17	2284	.21	2430	.24	2572	.29	2709	.33		
210	365	1437	.05	1663	.08	1846	.11	2018	.15	2185	.19	2337	.22	2479	.26	2614	.31				
230	400	1530	.07	1744	.10	1926	.13	2085	.16	2242	.20	2393	.24	2533	.29	2665	.33				
250	435	1627	.08	1825	.11	2008	.15	2161	.18	2306	.22	2450	.26	2589	.31						
270	470	1725	.09	1910	.13	2089	.17	2241	.20	2379	.24	2513	.29	2646	.33						
290	504	1825	.11	1999	.15	2170	.18	2324	.23	2457	.27	2583	.31	2708	.36						
310	539	1926	.13	2092	.17	2252	.21	2405	.25	2540	.30	2662	.34								
330	574	2026	.15	2187	.19	2337	.23	2486	.28	2622	.31										
350	609	2130	.18	2283	.22	2425	.26	2567	.31	2702	.36										
370	644	2232	.20	2382	.25	2517	.29	2650	.34												
390	678	2336	.23	2480	.28	2611	.33														
410	713	2441	.26	2580	.32	2706	.36														

70 CPV

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
150	261	1003	.019	1275	.04																
175	304	1080	.024	1323	.05	1548	.07														
200	348	1161	.030	1385	.05	1591	.08	1784	.11												
225	391	1241	.037	1457	.06	1645	.09	1826	.12	1997	.15										
250	435	1321	.044	1535	.07	1710	.10	1877	.13	2039	.16	2193	.20	2337	.24						
275	478	1402	.052	1616	.08	1783	.11	1938	.14	2089	.18	2236	.22	2377	.26	2511	.30				
300	522	1486	.062	1697	.09	1860	.12	2006	.16	2147	.19	2285	.23	2420	.27	2551	.32	2676	.36		
325	565	1574	.074	1777	.11	1941	.14	2081	.17	2214	.21	2344	.25	2470	.29	2595	.34	2717	.38		
350	609	1664	.087	1856	.12	2022	.16	2159	.19	2286	.23	2409	.27	2529	.31	2646	.36				
375	652	1756	.102	1937	.14	2103	.18	2240	.22	2363	.25	2479	.29	2593	.34	2705	.38				
400	696	1848	.118	2020	.16	2182	.20	2322	.24	2442	.28	2554	.32	2664	.36						
425	739	1941	.137	2104	.18	2262	.22	2403	.27	2523	.31	2633	.35								
450	783	2035	.158	2192	.20	2342	.25	2482	.29	2605	.34	2713	.39								
475	826	2129	.180	2281	.22	2424	.27	2562	.32	2686	.37										
500	870	2224	.205	2372	.25	2508	.30	2641	.35												
525	913	2319	.232	2463	.28	2593	.30														
550	957	2414	.262	2555	.31	2680	.40														

80 CPV

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

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

100 CPV

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
400	696	1026	.03	1257	.05	1482	.08														
450	783	1100	.04	1306	.06	1509	.09	1707	.13	1893	.17										
500	870	1179	.04	1365	.07	1549	.10	1731	.14	1907	.18	2075	.22								
550	957	1261	.05	1430	.08	1599	.11	1765	.15	1930	.19	2090	.23	2244	.28						
600	1044	1343	.06	1501	.09	1656	.13	1810	.16	1962	.20	2112	.25	2260	.29	2402	.34				
650	1131	1421	.07	1577	.11	1719	.14	1863	.18	2004	.22	2144	.26	2283	.31	2419	.36	2552	.42	2680	.47
700	1218	1489	.09	1656	.12	1788	.16	1922	.20	2054	.24	2184	.28	2314	.33	2443	.38	2570	.44	2695	.49
750	1305	1531	.10	1738	.14	1860	.18	1984	.22	2109	.26	2232	.31	2354	.35	2475	.41	2596	.46	2715	.52
800	1392	1568	.11	1820	.16	1937	.20	2052	.24	2169	.28	2286	.33	2401	.38	2515	.43	2629	.49		
850	1479	1631	.12	1902	.18	2017	.22	2124	.26	2234	.31	2344	.36	2453	.41	2561	.46	2668	.52		
900	1566	1703	.14	1981	.20	2098	.24	2200	.29	2303	.34	2407	.39	2510	.44	2613	.49	2715	.55		
950	1653	1780	.16	2055	.22	2181	.27	2278	.32	2375	.37	2473	.42	2571	.47	2670	.53				
1000	1740	1858	.18	2118	.25	2262	.30	2358	.35	2450	.40	2542	.45	2636	.51						
1050	1827	1939	.21	2159	.27	2343	.33	2440	.38	2527	.44	2615	.49	2703	.55						
1100	1915	2019	.23	2189	.29	2422	.37	2523	.42	2608	.47	2691	.53								
1150	2002	2101	.26	2239	.32	2497	.40	2605	.46	2689	.52										
1200	2089	2185	.29	2303	.35	2564	.44	2686	.50												
1250	2176	2268	.33	2374	.38	2618	.47														
1300	2263	2351	.36	2450	.42	2652	.50														
1350	2350	2434	.40	2527	.46	2683	.53														
1400	2437	2517	.44	2604	.50																

120 CPV

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

135 CPV

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

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

CPV Performance Data

150 CPV

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1100	842	785	.09	904	.14	1018	.20	1141	.28												
1250	957	836	.11	971	.17	1068	.24	1170	.31	1279	.39	1708	.27								
1400	1072	882	.13	1041	.20	1130	.27	1217	.35	1309	.43	1405	.52	1503	.62						
1550	1187	946	.16	1107	.24	1198	.32	1276	.40	1356	.48	1438	.57	1525	.67	1613	.78				
1700	1302	1016	.20	1164	.28	1268	.37	1342	.45	1413	.54	1486	.63	1560	.73	1639	.84	1719	.95	1800	1.07
1850	1416	1088	.24	1204	.33	1335	.42	1412	.52	1478	.61	1543	.71	1609	.81	1678	.91	1749	1.02	1822	1.14
2000	1531	1161	.29	1255	.38	1397	.48	1481	.58	1546	.68	1607	.79	1667	.89	1729	1.00	1792	1.11	1857	1.23
2150	1646	1236	.35	1319	.44	1444	.55	1548	.66	1616	.77	1675	.87	1731	.98	1787	1.10	1845	1.21	1903	1.33
2300	1761	1310	.41	1388	.51	1484	.61	1610	.74	1685	.85	1745	.97	1799	1.08	1852	1.20	1904	1.32	1957	1.45
2450	1876	1385	.48	1459	.58	1538	.69	1659	.82	1751	.95	1814	1.07	1869	1.20	1919	1.32	1969	1.44	2018	1.57
2600	1991	1460	.56	1531	.67	1601	.78	1698	.91	1811	1.05	1881	1.18	1938	1.31	1989	1.44				
2750	2106	1535	.65	1605	.76	1669	.88	1745	1.01	1858	1.16	1945	1.30	2006	1.44						
2900	2221	1610	.74	1678	.87	1738	.99	1804	1.12	1897	1.27	2001	1.43								
3050	2336	1686	.85	1752	.98	1811	1.11	1870	1.25	1943	1.39										
3200	2450	1762	.97	1826	1.11	1883	1.24	1939	1.38	2000	1.53										
3350	2565	1837	1.10	1901	1.24	1956	1.39	2008	1.53												
3500	2680	1914	1.24	1975	1.39	2029	1.54														
3650	2795	1991	1.39																		

165 CPV

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1300	820	703	.10	812	.17	919	.24	1035	.33												
1450	915	747	.12	861	.19	954	.27	1052	.36	1156	.46	1708	.27								
1600	1010	777	.14	913	.22	997	.31	1083	.40	1174	.49	1268	.61								
1750	1105	819	.17	965	.26	1046	.35	1122	.44	1202	.54	1285	.65	1371	.77						
1900	1199	868	.20	1014	.30	1098	.39	1168	.49	1239	.59	1312	.70	1390	.82	1469	.95	1548	1.09		
2050	1294	921	.24	1056	.34	1150	.44	1218	.55	1283	.65	1349	.76	1417	.88	1488	1.01	1562	1.15	1635	1.29
2200	1389	975	.28	1087	.38	1201	.50	1270	.61	1331	.72	1391	.83	1453	.96	1517	1.08	1583	1.22	1651	1.37
2350	1483	1030	.33	1121	.43	1249	.56	1322	.67	1382	.79	1438	.91	1495	1.04	1553	1.17	1613	1.30	1674	1.45
2500	1578	1086	.38	1166	.49	1291	.62	1374	.75	1434	.87	1488	1.00	1541	1.13	1594	1.26	1649	1.40	1705	1.54
2650	1673	1141	.44	1215	.55	1322	.68	1423	.82	1486	.95	1540	1.09	1591	1.22	1640	1.36	1691	1.50	1742	1.65
2800	1768	1197	.50	1268	.62	1353	.75	1468	.90	1537	1.04	1592	1.18	1642	1.33	1689	1.47	1736	1.61		
2950	1862	1253	.57	1321	.70	1393	.83	1505	.99	1587	1.14	1644	1.29	1694	1.44	1740	1.58				
3100	1957	1310	.65	1375	.78	1440	.92	1534	1.07	1633	1.24	1695	1.40	1746	1.55						
3250	2052	1366	.74	1430	.87	1490	1.01	1566	1.17	1672	1.35	1744	1.51								
3400	2147	1422	.83	1485	.97	1543	1.12	1607	1.27	1703	1.45										
3550	2241	1479	.93	1541	1.08	1595	1.23	1653	1.39	1732	1.56										
3700	2336	1537	1.04	1597	1.20	1650	1.36	1703	1.51												
3850	2431	1593	1.16	1652	1.32	1704	1.48	1755	1.65												
4000	2525	1650	1.28	1709	1.46	1759	1.63														
4150	2620	1707	1.42	1765	1.60																

180 CPV

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1400	744	555	.09	697	.17	821	.26	932	.35												
1600	851	579	.11	724	.19	840	.29	947	.39	1044	.50	1708	.27								
1800	957	609	.13	757	.23	864	.32	966	.44	1060	.55	1147	.67	1230	.80						
2000	1063	648	.15	787	.26	893	.36	987	.48	1078	.61	1163	.74	1243	.87	1319	1.01				
2200	1170	689	.18	811	.29	926	.41	1014	.53	1100	.66	1182	.80	1260	.94	1334	1.09	1404	1.24	1472	1.39
2400	1276	732	.22	837	.33	958	.46	1046	.59	1125	.72	1203	.86	1279	1.02	1352	1.17	1420	1.33	1486	1.49
2600	1383	776	.26	871	.37	983	.51	1079	.65	1156	.79	1229	.94	1301	1.09	1371	1.26	1439	1.43	1503	1.59
2800	1489	821	.30	910	.43	1006	.56	1110	.72	1189	.87	1258	1.02	1326	1.18	1393	1.34	1459	1.52	1522	1.70
3000	1595	867	.36	951	.48	1035	.62	1135	.79	1221	.95	1291	1.11	1356	1.27	1418	1.44	1481	1.62	1543	1.81
3200	1702	913	.41	994	.55	1070	.69	1158	.85	1250	1.04	1324	1.21	1388	1.38	1448	1.55	1507	1.73	1566	1.92
3400	1808	959	.47	1037	.62	1109	.77	1185	.93	1274	1.12	1355	1.31	1421	1.49	1481	1.67	1537	1.85		
3600	1914	1007	.55	1081	.70	1150	.86	1218	1.02	1297	1.20	1381	1.41	1453	1.61	1514	1.80	1569	1.99		
3800	2021	1055	.63	1125	.79	1192	.95	1255	1.12	1324	1.30	1404	1.51	1481	1.73	1546	1.93				
4000	2127	1104	.71	1170	.88	1235	1.05	1295	1.23	1357	1.40	1428	1.61	1505	1.84	1575	2.07				
4200	2234	1152	.81	1216	.98	1278	1.16	1337	1.35	1394	1.53	1457	1.73	1528	1.96						
4400	2340	1201	.91	1261	1.09	1322	1.28	1379	1.47	1433	1.66	1490	1.86	1553	2.08						
4600	2446	1251	1.03	1308	1.21	1366	1.41	1422	1.61	1474	1.81	1527	2.01	1583	2.22						
4800	2553	1300	1.15	1355	1.34	1411	1.54	1465	1.75	1516	1.96	1566	2.17								
5000	2659	1349	1.28	1403	1.48	1456	1.69	1509	1.91	1559	2.13										
5200	2766	1399	1.43	1450	1.63	1502	1.85	1553	2.07												
5400	2872	1450	1.59	1498	1.79	1547	2.01														
5600	2978	1500	1.75	1547	1.96																

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

195 CPV

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1600	723	507	.10	639	.19	755	.30	858	.41												
1900	859	537	.13	671	.23	778	.34	876	.47	965	.60	1708	.27								
2200	995	575	.16	710	.28	807	.40	899	.53	985	.67	1064	.82	1139	.97						
2500	1130	623	.20	742	.33	844	.46	927	.60	1008	.75	1085	.91	1158	1.08	1226	1.24	1292	1.42		
2800	1266	673	.25	771	.38	882	.54	964	.69	1037	.84	1110	1.01	1180	1.19	1247	1.37	1310	1.55	1371	1.74
3100	1402	725	.31	811	.45	912	.61	1003	.79	1073	.95	1140	1.12	1205	1.30	1270	1.50	1332	1.69	1392	1.90
3400	1537	778	.38	858	.53	941	.69	1036	.88	1113	1.07	1176	1.24	1237	1.43	1297	1.63	1356	1.84	1415	2.06
3700	1673	832	.47	908	.63	979	.79	1064	.98	1148	1.19	1216	1.39	1274	1.58	1330	1.78	1385	2.00	1440	2.22
4000	1809	887	.56	959	.73	1025	.91	1095	1.09	1177	1.32	1252	1.54	1313	1.75	1368	1.96	1420	2.18	1471	2.40
4300	1944	944	.67	1011	.85	1074	1.04	1135	1.23	1205	1.44	1282	1.69	1350	1.93	1407	2.16	1459	2.39	1507	2.61
4600	2080	1001	.79	1063	.98	1124	1.19	1180	1.38	1240	1.59	1309	1.84	1381	2.11	1444	2.37	1498	2.61	1546	2.85
4900	2216	1058	.93	1117	1.13	1175	1.35	1229	1.56	1282	1.77	1341	2.01	1408	2.28	1474	2.56	1534	2.84		
5200	2352	1116	1.09	1171	1.3	1226	1.52	1279	1.75	1329	1.98	1380	2.21	1438	2.47	1502	2.76	1564	3.06		
5500	2487	1174	1.27	1226	1.48	1279	1.72	1330	1.96	1378	2.2	1425	2.44	1475	2.69	1531	2.97				
5800	2623	1232	1.46	1282	1.69	1332	1.93	1381	2.19	1428	2.44	1472	2.68	1518	2.94	1566	3.21				
6100	2759	1291	1.67	1338	1.91	1386	2.16	1433	2.43	1478	2.69	1522	2.96	1564	3.22						
6400	2894	1350	1.91	1395	2.15	1440	2.41	1485	2.69	1529	2.97										
6700	3030	1409	2.17	1452	2.42	1495	2.69	1538	2.97												
7000	3166	1468	2.44	1509	2.71	1550	2.98														

210 CPV

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1900	740	475	.12	597	.23	704	.35	799	.48												
2200	857	498	.15	623	.27	722	.40	813	.54	896	.69	1708	.27								
2500	974	528	.18	654	.31	745	.45	831	.60	911	.77	986	.93	1056	1.11						
2800	1091	565	.22	682	.37	774	.51	853	.67	930	.85	1002	1.03	1070	1.21	1134	1.40	1196	1.60		
3100	1208	605	.27	704	.41	805	.59	880	.75	951	.93	1020	1.12	1087	1.32	1149	1.52	1209	1.73	1267	1.94
3400	1325	646	.32	731	.47	832	.66	911	.84	977	1.02	1042	1.22	1106	1.43	1167	1.65	1226	1.88	1281	2.09
3700	1442	688	.39	766	.55	854	.74	941	.94	1008	1.14	1068	1.34	1128	1.55	1187	1.78	1244	2.02	1299	2.26
4000	1559	731	.46	805	.63	879	.82	967	1.04	1039	1.26	1099	1.47	1154	1.69	1209	1.92	1264	2.16	1317	2.41
4300	1676	774	.54	845	.73	910	.92	989	1.14	1067	1.39	1130	1.62	1184	1.84	1236	2.07	1287	2.32	1338	2.58
4600	1793	818	.64	885	.84	947	1.03	1013	1.25	1090	1.51	1159	1.77	1216	2.01	1267	2.26	1315	2.50	1363	2.76
4900	1909	863	.74	926	.95	985	1.16	1044	1.38	1112	1.64	1184	1.92	1246	2.19	1298	2.45	1346	2.71	1391	2.97
5200	2026	908	.86	968	1.08	1026	1.31	1079	1.53	1138	1.78	1206	2.07	1272	2.37	1328	2.65	1377	2.92		
5500	2143	955	1.00	1011	1.22	1066	1.46	1117	1.70	1170	1.95	1229	2.22	1294	2.53	1355	2.85	1407	3.15		
5800	2260	1000	1.14	1054	1.38	1107	1.63	1157	1.88	1205	2.13	1257	2.40	1316	2.71	1378	3.05				
6100	2377	1047	1.3	1098	1.55	1149	1.81	1197	2.08	1243	2.34	1290	2.61	1342	2.91	1400	3.25				
6400	2494	1094	1.48	1142	1.73	1190	2.00	1238	2.29	1282	2.56	1326	2.84	1372	3.13						
6700	2611	1140	1.67	1186	1.93	1233	2.22	1279	2.51	1322	2.80	1364	3.09	1406	3.38						
7000	2728	1187	1.88	1232	2.16	1276	2.45	1320	2.75	1363	3.06	1403	3.36								
7300	2845	1235	2.12	1276	2.39	1319	2.69	1362	3.01	1403	3.33										
7600	2962	1282	2.36	1323	2.65	1363	2.96	1404	3.28												
7900	3079	1329	2.63	1369	2.93																

225 CPV

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2100	714	437	.13	552	.25	653	.39	743	.54												
2450	833	460	.16	575	.29	670	.45	755	.60	833	.77	1708	.27								
2800	952	486	.20	604	.35	690	.50	772	.68	847	.86	917	1.05	983	1.25						
3150	1071	521	.24	632	.41	717	.58	791	.75	864	.95	932	1.16	995	1.37	1056	1.58	1115	1.81		
3500	1190	558	.30	653	.47	746	.66	816	.84	883	1.05	949	1.27	1011	1.50	1070	1.73	1126	1.96	1180	2.20
3850	1309	597	.36	678	.53	773	.75	845	.95	908	1.16	969	1.39	1029	1.63	1086	1.87	1141	2.13	1193	2.38
4200	1428	637	.44	710	.62	794	.83	875	1.07	936	1.29	993	1.52	1049	1.76	1104	2.02	1158	2.29	1209	2.56
4550	1548	677	.52	746	.71	817	.93	899	1.18	966	1.43	1021	1.67	1074	1.92	1125	2.18	1177	2.46	1227	2.75
4900	1667	718	.61	784	.83	846	1.04	920	1.30	993	1.58	1051	1.84	1102	2.10	1151	2.37	1199	2.65	1246	2.94
5250	1786	760	.72	823	.95	880	1.17	943	1.43	1016	1.73	1079	2.02	1132	2.30	1179	2.57	1225	2.86		
5600	1905	803	.85	862	1.09	917	1.33	972	1.58	1036	1.87	1103	2.19	1160	2.50	1209	2.80	1253	3.09		
5950	2024	845	.98	901	1.23	955	1.49	1005	1.75	1061	2.03	1124	2.36	1185	2.70	1238	3.03				
6300	2143	889	1.14	942	1.40	993	1.67	1041	1.94	1090	2.22	1146	2.55	1207	2.91	1263	3.26				
6650	2262	932	1.30	983	1.58	1032	1.87	1079	2.16	1124	2.45	1172	2.75	1228	3.11						
7000	2381	977	1.50	1024	1.77	1071	2.08	1117	2.39	1160	2.69	1203	2.99	1252	3.34						
7350	2500	1021	1.70	1066	1.99	1111	2.31	1155	2.63	1197	2.95	1238	3.27								
7700	2619	1065	1.93	1108	2.23	1152	2.56	1194	2.89	1235	3.23										
8050	2738	1110	2.18	1151	2.49	1192	2.82	1233	3.17												
8400	2857	1155	2.45	1194	2.77	1234	3.11														
8750	2977	1200	2.74	1237	3.07																

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). **Shaded area indicates reinforced wheel required.**

CPV Performance Data

245 CPV

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2800	802	417	.18	520	.34	609	.51	691	.70												
3200	916	438	.22	545	.39	625	.57	702	.77	774	.99	1708	.27								
3600	1031	466	.27	571	.45	647	.65	717	.86	786	1.08	850	1.33								
4000	1145	498	.33	592	.53	673	.74	738	.96	801	1.19	862	1.44	921	1.70	977	1.98				
4400	1260	532	.40	612	.61	699	.83	763	1.07	821	1.32	878	1.58	934	1.84	989	2.13	1041	2.43	1091	2.75
4800	1374	566	.48	638	.70	720	.94	789	1.19	845	1.45	898	1.72	950	2.00	1002	2.29	1053	2.60	1102	2.92
5200	1489	600	.57	668	.80	739	1.05	814	1.32	872	1.60	922	1.88	971	2.18	1019	2.48	1067	2.79	1115	3.12
5600	1604	636	.67	700	.92	762	1.18	834	1.46	897	1.75	948	2.05	995	2.37	1040	2.68	1085	3.01	1130	3.34
6000	1718	672	.79	733	1.05	790	1.32	853	1.62	920	1.93	974	2.24	1021	2.56	1064	2.89	1106	3.23	1149	3.59
6400	1833	709	.92	767	1.19	821	1.48	876	1.79	939	2.11	998	2.44	1047	2.78	1091	3.13	1131	3.48	1171	3.84
6800	1947	746	1.07	801	1.36	853	1.66	902	1.97	959	2.31	1019	2.66	1072	3.01	1117	3.37	1157	3.73	1196	4.11
7200	2062	785	1.24	836	1.54	886	1.85	933	2.18	982	2.52	1038	2.89	1093	3.25	1142	3.63	1184	4.01	1222	4.40
7600	2176	823	1.42	871	1.73	919	2.06	964	2.40	1009	2.76	1058	3.12	1112	3.51	1164	3.91	1209	4.30	1249	4.71
8000	2291	861	1.62	906	1.94	953	2.29	997	2.64	1039	3.01	1083	3.40	1132	3.79	1183	4.20	1231	4.61		
8400	2406	900	1.85	943	2.18	987	2.54	1030	2.91	1070	3.28	1111	3.68	1154	4.08	1202	4.50	1251	4.94		
8800	2520	939	2.09	979	2.43	1022	2.81	1063	3.19	1103	3.58	1141	3.99	1180	4.40	1223	4.83				
9200	2635	978	2.36	1017	2.72	1057	3.10	1097	3.49	1136	3.90	1172	4.31	1209	4.75	1248	5.19				
9600	2749	1018	2.66	1054	3.02	1092	3.41	1131	3.82	1169	4.24	1205	4.67	1239	5.10						
10000	2864	1057	2.97	1092	3.35	1128	3.74	1166	4.17	1202	4.60	1238	5.05								
10400	2978	1096	3.30	1130	3.70	1165	4.11	1201	4.55	1236	4.99										
10800	3093	1136	3.67	1168	4.07	1201	4.49	1236	4.95												
11200	3208	1175	4.05	1207	4.48	1239	4.92														

270 CPV

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3400	802	378	.22	472	.41	552	.61	627	.85												
3900	921	398	.27	495	.48	567	.70	637	.94	702	1.20	1708	.27								
4400	1039	425	.33	519	.55	588	.79	652	1.05	714	1.32	772	1.62								
4900	1157	455	.41	538	.64	613	.90	671	1.17	728	1.46	784	1.76	837	2.09	888	2.43				
5400	1275	486	.49	557	.74	637	1.03	695	1.31	747	1.62	799	1.94	849	2.26	899	2.61	946	2.98	991	3.36
5900	1393	518	.60	582	.86	656	1.16	720	1.47	770	1.79	818	2.12	865	2.47	911	2.81	957	3.19	1001	3.58
6400	1511	550	.71	611	.99	674	1.30	742	1.63	795	1.97	841	2.32	884	2.68	928	3.06	971	3.44	1014	3.84
6900	1629	583	.84	641	1.14	696	1.47	760	1.81	819	2.18	865	2.54	907	2.92	948	3.31	988	3.71	1028	4.11
7400	1747	618	1.00	672	1.31	723	1.65	779	2.01	839	2.39	890	2.78	932	3.17	971	3.58	1009	4.00	1046	4.42
7900	1865	652	1.16	704	1.50	752	1.85	801	2.23	856	2.62	911	3.03	957	3.45	996	3.87	1033	4.31	1068	4.75
8400	1983	687	1.36	736	1.71	782	2.07	827	2.47	876	2.88	929	3.30	979	3.75	1020	4.18	1057	4.63		
8900	2101	723	1.57	768	1.93	813	2.32	855	2.73	898	3.15	947	3.59	998	4.06	1043	4.52	1082	4.99		
9400	2220	758	1.81	801	2.19	845	2.60	885	3.01	925	3.45	968	3.91	1015	4.38	1062	4.86				
9900	2338	795	2.08	835	2.47	876	2.89	916	3.33	953	3.78	992	4.25	1034	4.73	1080	5.24				
10400	2456	831	2.36	869	2.77	908	3.21	947	3.67	983	4.13	1019	4.62	1057	5.12						
10900	2574	867	2.68	904	3.11	941	3.56	978	4.03	1014	4.52	1048	5.02	1082	5.53						
11400	2692	904	3.03	939	3.47	974	3.94	1010	4.42	1045	4.93	1077	5.43								
11900	2810	941	3.41	974	3.86	1007	4.34	1042	4.85	1076	5.37										
12400	2928	978	3.81	1009	4.28	1041	4.78	1074	5.30												
12900	3046	1015	4.25	1045	4.74	1075	5.24														

300 CPV

CFM	OV	0.250 SP		0.500 SP		0.750 SP		1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.250 SP		2.500 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4300	822	330	.27	418	.50	488	.75	553	1.03												
4900	937	352	.33	432	.57	503	.85	562	1.14	619	1.46	1708	.27								
5500	1052	376	.41	448	.65	518	.96	576	1.27	629	1.60	680	1.96								
6100	1167	400	.49	467	.76	532	1.07	592	1.41	643	1.76	691	2.13	737	2.52	782	2.92				
6700	1281	426	.59	489	.89	548	1.20	606	1.55	659	1.94	705	2.33	749	2.73	791	3.15	833	3.59		
7300	1396	453	.71	512	1.03	567	1.35	620	1.70	673	2.11	721	2.54	763	2.96	803	3.39	843	3.85	881	4.30
7900	1511	480	.84	536	1.19	588	1.53	637	1.89	687	2.30	735	2.74	779	3.2	818	3.65	856	4.12	892	4.60
8500	1626	508	.99	561	1.36	610	1.73	657	2.11	703	2.51	749	2.96	793	3.44	834	3.94	871	4.43	906	4.92
9100	1741	536	1.15	586	1.55	634	1.96	678	2.35	721	2.76	764	3.20	807	3.69	848	4.21	886	4.73	922	5.27
9700	1855	565	1.34	612	1.76	658	2.20	701	2.63	741	3.04	781	3.48	822	3.97	862	4.50	901	5.06	937	5.61
10300	1970	594	1.55	639	1.99	683	2.46	724	2.91	763	3.36	801	3.81	838	4.28	877	4.82	915	5.38	951	5.96
10900	2085	623	1.78	666	2.25	708	2.73	748	3.22	785	3.69	821	4.16	857	4.65	893	5.17	929	5.72	965	6.32
11500	2200	654	2.05	694	2.53	733	3.02	772	3.55	809	4.06	844	4.56	878	5.06	911	5.57	945	6.11	980	6.72
12100	2315	683	2.33	722	2.84	760	3.36	797	3.90	832	4.44	866	4.96	899	5.49	931	6.01	963	6.56	996	7.16
12700	2429	714	2.65	750	3.17	786	3.71	822	4.27	857	4.85	890	5.42	922	5.97	953	6.52	983	7.06		
13300	2544	744	2.99	779	3.53	814	4.10	848	4.68	881	5.27	914	5.88	945	6.46	975	7.04	1004	7.60		
13900	2659	774	3.36	807	3.91	841	4.51	874	5.11	907	5.75	938	6.36	968	6.97	998	7.59				
14500	2774	805	3.77	837	4.35	869	4.95	901	5.59	932	6.22	963	6.89	992	7.52						
15100	2889	836	4.21	866	4.80	897	5.43	928	6.09	958	6.75	988	7.43								
15700	3003	867	4.69	896	5.30	925	5.93	955	6.61	984	7.29										
16300	3118	898	5.20	926	5.83	954	6.49	983	7.19												
16900	3233	928	5.72	956	6.39	983	7.07														
17500	3348	959	6.30	986	7.00																

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

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

Construction - The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The scroll wrapper shall be a minimum 14 gauge steel and the scroll side panels shall be a minimum 12 gauge steel. The entire fan housing shall have continuously welded seams for leakproof operation. A performance cut-off shall be furnished to prevent the recirculation of air in the fan housing. The fan housing shall be field rotatable to any one of eight discharge positions and shall have a minimum 1-1/2 inch outlet discharge flange. Bearing support shall be minimum 10 gauge welded steel. Side access inspection ports shall be provided with quick release latches for access to the motor compartment without removing the weather cover. Lifting lugs shall be provided for ease of installation. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM, static pressure, and maximum fan RPM. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

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

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

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

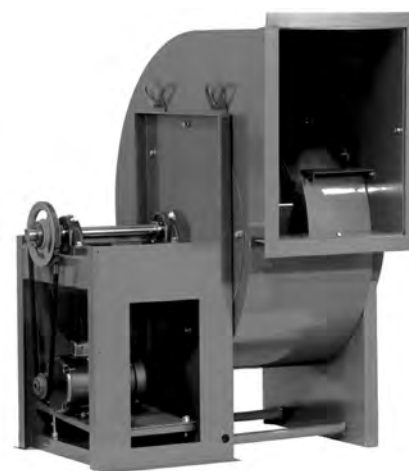
Bearings - Bearings shall be designed and tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball or roller type in a cast iron pillowblock housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

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

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

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

Centrifugal Vent Set Blower Backward Inclined Wheel Steel Construction Belt Drive



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



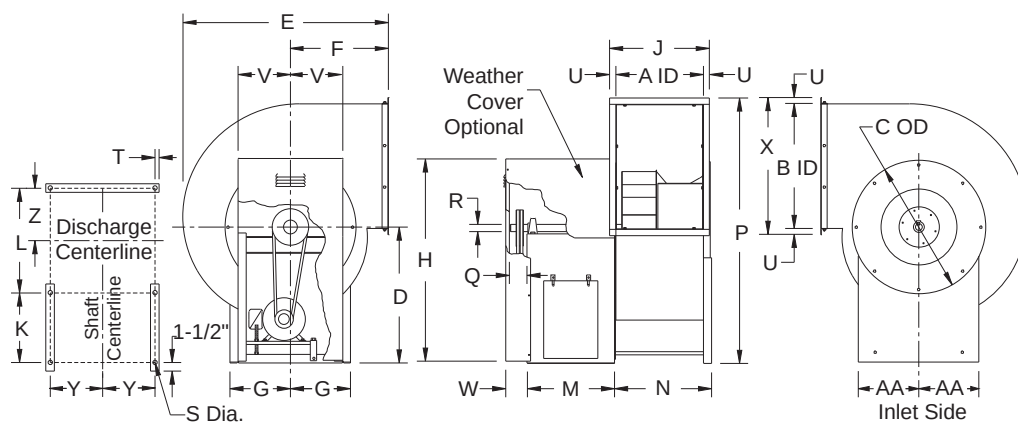
Type CPS is furnished standard with UL 705 listing (cUL 705) when furnished with factory supplied motor.



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



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



Dimensions

Size	A	B	C	D		E	F	G		H		J	K		L	M	
				Class I	Class II			Class I	Class II	Class I	Class II		Class I	Class II		Class I	Class II
60	7-9/16	10-15/16	14-1/8	18		22-1/4	12-3/4	9-3/8		25-1/4		10-3/4	10		10-1/4	13-1/8	
70	7-9/16	10-15/16	14-1/8	18		22-1/4	12-3/4	9-3/8		25-1/4		10-3/4	10		10-1/4	13-1/8	
80	7-9/16	10-15/16	14-1/8	18		22-1/4	12-3/4	9-3/8		25-1/4		10-3/4	10		10-1/4	13-1/8	
100	7-9/16	10-15/16	14-1/8	18		22-1/4	12-3/4	9-3/8		25-1/4		10-3/4	10		10-1/4	13-1/8	
120	9-3/16	13-1/8	16-1/8	18	22	24-13/16	13-3/8	9-3/8	10-5/16	26-1/4	30-1/4	12-3/8	10	18	11-7/8	13-1/8	21-1/8
135	10-5/16	14-3/4	17-5/8	18	22	26-11/16	13-7/8	9-3/8	10-5/16	27	31	13-1/2	12	18	13	15-1/8	21-1/8
150	11-7/16	16-7/16	19-1/8	19-1/16	22	29-9/16	15-5/16	9-3/8	10-13/16	29-1/16	32	14-5/8	12	18	14-1/8	15-1/8	21-1/8
165	12-5/8	18-1/16	21-3/16	20-7/16	24	32-1/16	16-3/8	9-3/8	12-9/16	31-7/16	35	15-13/16	12	22-1/8	15-5/16	15-1/8	25-1/4
180	13-3/4	19-11/16	22-11/16	22-1/16	24	34-3/4	17-5/8	10-3/8	12-9/16	33-9/16	35-1/2	16-15/16	12	22-1/8	16-7/16	15-1/8	25-1/4
195	14-15/16	21-5/16	24-3/16	23-11/16	24-1/4	36-5/16	17-13/16	10-3/8	13-5/16	35-11/16	36-1/4	18-3/16	15	22-1/8	17-5/8	18-1/8	25-1/4
210	16-1/16	23	25-15/16	25-3/8	25-3/8	39-15/16	20	11-3/8	13-5/16	38-7/8	38-7/8	19-5/16	15	22-1/8	18-3/4	18-1/8	25-1/4
225	17-3/16	24-5/8	27-7/16	27	27	42	20-5/8	11-7/8	13-5/16	41	41	20-7/16	15	22-1/8	19-7/8	18-1/8	25-1/4
245	18-3/4	26-13/16	29-7/16	29-5/8	29-5/8	45-1/16	21-3/4	13-3/8	14-15/16	44-5/8	44-5/8	23	15	24-1/8	21-11/16	18-1/8	27-5/16
270	20-5/8	29-9/16	31-15/16	32-3/8	32-3/8	49-1/16	23-3/8	14-3/8	14-15/16	48-7/8	48-7/8	24-7/8	18	24-1/8	23-9/16	21-1/8	27-5/16
300	22-15/16	32-13/16	34-15/16	35-5/8	35-5/8	54-3/8	25-7/8	15-5/16	15-3/8	53-5/8	53-5/8	27-3/16	18	26	26	21-3/16	29-3/16

Size	N	P		Q	R		S	T	U	V		W	X	Y		Z	Max. Motor Frame**		Ship Wt.	
		Class I	Class II		Class I	Class II				Class I	Class II			Class I	Class II		Class I	Class II	Class I	Class II
60	9-3/8	30-3/8		3	1		9/16	3/4	1-5/8	8		4	14-1/16	8-5/8		4-5/8	145T		173	
70	9-3/8	30-3/8		3	1		9/16	3/4	1-5/8	8		4	14-1/16	8-5/8		4-5/8	145T		173	
80	9-3/8	30-3/8		3	1		9/16	3/4	1-5/8	8		4	14-1/16	8-5/8		4-5/8	145T		173	
100	9-3/8	30-3/8		3	1		9/16	3/4	1-5/8	8		4	14-1/16	8-5/8		4-5/8	145T		173	
120	11	32-9/16	36-9/16	3	1	1-7/16	9/16	3/4	1-5/8	8	9	4	16-5/16	8-5/8	9-9/16	5-7/16	184T	254T	221	255
135	12-1/8	34-3/16	38-3/16	3	1	1-7/16	9/16	3/4	1-5/8	8	8-15/16	4	17-15/16	8-5/8	9-9/16	6	184T	254T	255	280
150	13-1/4	37-1/8	40-1/16	3	1	1-7/16	9/16	3/4	1-5/8	8	9-7/16	4	19-5/8	8-5/8	10-1/16	6-9/16	184T	254T	291	318
165	14-7/16	39-7/8	43-7/16	3	1	1-7/16	9/16	3/4	1-5/8	8	11-3/16	4	21-1/4	8-5/8	11-13/16	7-3/16	184T	284T	334	380
180	15-9/16	43-1/8	45-1/16	3	1-3/16	1-11/16	9/16	3/4	1-5/8	9	11-3/16	4	22-7/8	9-5/8	11-13/16	7-3/4	215T	284T	396	447
195	16-3/4	46-3/8	46-15/16	3	1-3/16	1-11/16	9/16	3/4	1-5/8	9	11-15/16	4	24-1/2	9-5/8	12-9/16	8-5/16	215T	286T	440	485
210	17-7/8	49-3/4	49-3/4	4	1-7/16	1-11/16	9/16	3/4	1-5/8	10	11-11/16	5	26-3/16	10-5/8	12-9/16	8-7/8	215T	286T	490	534
225	19	53	53	4	1-7/16	1-11/16	9/16	3/4	1-5/8	10-1/2	11-11/16	5	27-13/16	11-1/8	12-9/16	9-7/16	215T	286T	537	585
245	21-1/16	58-1/4	58-1/4	4	1-11/16	1-15/16	11/16	1	2-1/8	11-1/2	13	5	31	12-3/8	13-15/16	10-1/2	215T	324T	608	676
270	22-15/16	63-3/4	63-3/4	4	1-11/16	1-15/16	11/16	1	2-1/8	12-1/2	13	5	33-3/4	13-3/8	13-15/16	11-7/16	256T	324T	722	776
300	25-5/16	71-1/4	71-1/4	4	1-15/16	2-3/16	11/16	1	2-1/8	13-1/2	13-1/2	5	37	14-5/16	14-3/8	12-5/8	256T	324T	879	980

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

Sizes: 330 - 490 not available on Express.
Class II only available on 10 Day Express.

60 CPS

CFM	OV	1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP		5.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
70	121	1733	.08																				
100	174	1785	.09	1976	.12	2148	.15	2306	.18	2453	.22												
130	226	1825	.10	2022	.13	2198	.17	2358	.20	2506	.24	2775	.32	3017	.41	3241	.50						
160	278	1867	.11	2058	.15	2236	.18	2400	.22	2551	.26	2825	.35	3070	.44	3295	.54	3502	.65	3697	.75	3881	.86
190	330	1950	.13	2111	.17	2276	.20	2437	.24	2588	.29	2867	.37	3117	.47	3344	.58	3554	.69	3751	.81	3936	.93
220	383	2069	.16	2208	.19	2346	.23	2487	.27	2629	.31	2903	.41	3155	.51	3386	.61	3600	.73	3799	.85	3986	.98
250	435	2190	.19	2330	.23	2455	.27	2574	.30	2696	.35	2946	.44	3192	.55	3423	.66	3638	.77	3840	.90	4030	1.02
280	487	2308	.22	2450	.27	2577	.31	2692	.35	2800	.39	3016	.49	3239	.59	3461	.71	3674	.83	3877	.95	4068	1.08
310	539	2433	.26	2568	.31	2697	.36	2815	.40	2922	.45	3119	.54	3314	.65	3514	.76	3716	.88	3914	1.02	4104	1.15
340	591	2567	.31	2692	.35	2815	.40	2933	.46	3043	.51	3239	.61	3418	.72	3595	.83	3777	.95	3961	1.08	4145	1.22
370	644	2708	.36	2824	.41	2939	.46	3051	.51	3161	.57	3362	.69	3538	.80	3703	.91	3865	1.03	4030	1.16	4199	1.30
400	696	2852	.42	2963	.47	3070	.52	3176	.58	3280	.64	3481	.76	3661	.89	3823	1.01	3976	1.13	4125	1.25		
430	748	2996	.49	3106	.54	3208	.60	3306	.65	3405	.71	3599	.84	3781	.98	3946	1.11	4097	1.24				
460	800	3141	.56	3249	.62	3349	.68	3444	.74	3536	.80	3720	.93	3898	1.07	4066	1.22	4220	1.36				
490	853	3288	.65	3394	.71	3493	.77	3585	.83	3674	.89	3846	1.03	4018	1.17	4184	1.33						
520	905	3437	.74	3540	.81	3637	.87	3728	.93	3815	1.00	3980	1.14	4142	1.29								
550	957	3588	.85	3687	.91	3783	.98	3872	1.05	3957	1.12	4117	1.26										
580	1009	3741	.96	3836	1.03	3929	1.10	4017	1.17	4101	1.25												
610	1061	3895	1.09	3987	1.16	4076	1.24	4163	1.31														
640	1114	4053	1.22	4139	1.30	4225	1.38																

70 CPS

CFM	OV	1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP		5.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
150	261	1660	.07																				
200	348	1735	.10	1895	.12	2048	.14	2197	.17														
250	435	1857	.12	2001	.15	2136	.18	2266	.22	2392	.24	2635	.30										
300	522	1991	.14	2131	.18	2259	.21	2378	.25	2492	.29	2710	.37	2920	.44	3122	.50	3319	.57				
350	609	2130	.18	2266	.21	2391	.25	2508	.29	2617	.33	2821	.42	3013	.52	3198	.60	3377	.68	3552	.75	3723	.83
400	696	2276	.21	2406	.26	2528	.30	2643	.34	2750	.38	2949	.47	3132	.57	3305	.68	3470	.79	3632	.89	3789	.97
450	783	2432	.26	2553	.30	2670	.35	2781	.39	2887	.44	3082	.54	3262	.64	3429	.75	3587	.86	3739	.99	3885	1.11
500	870	2596	.31	2709	.36	2818	.40	2924	.46	3027	.51	3219	.61	3396	.72	3560	.82	3714	.94	3862	1.07	4003	1.20
550	957	2766	.38	2872	.42	2975	.47	3074	.52	3172	.58	3358	.69	3533	.81	3695	.92	3847	1.04	3992	1.16	4130	1.30
600	1044	2939	.45	3041	.50	3138	.55	3232	.60	3324	.66	3502	.78	3672	.91	3832	1.03	3983	1.16	4125	1.28		
650	1131	3117	.55	3214	.59	3306	.64	3396	.70	3483	.75	3651	.88	3815	1.01	3972	1.15	4120	1.28				
700	1218	3296	.65	3390	.70	3478	.75	3564	.80	3647	.86	3808	.99	3964	1.13	4115	1.27						
750	1305	3478	.77	3569	.82	3654	.87	3735	.93	3815	.98	3970	1.11	4118	1.25								
800	1392	3662	.90	3749	.96	3831	1.01	3910	1.07	3987	1.13	4136	1.26										
850	1479	3847	1.05	3931	1.11	4010	1.17	4088	1.23	4162	1.29												
900	1566	4031	1.20	4115	1.28	4193	1.34																

80 CPS

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

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

Class II only available on 10 Day Express.

100 CPS

CFM	OV	1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP		5.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
450	783	1646	.12																				
550	957	1739	.15	1877	.18	2015	.22																
650	1131	1872	.18	1987	.22	2103	.26	2220	.30	2338	.35												
750	1305	2023	.23	2128	.27	2227	.31	2327	.35	2428	.40	2631	.50										
850	1479	2177	.28	2280	.33	2373	.37	2462	.42	2550	.47	2726	.57	2906	.68	3085	.80						
950	1653	2333	.34	2434	.39	2526	.44	2612	.50	2693	.55	2851	.65	3008	.77	3168	.89	3329	1.02				
1050	1827	2492	.40	2589	.46	2680	.52	2766	.58	2845	.64	2993	.75	3135	.87	3277	.99	3422	1.12	3567	1.26	3712	1.41
1150	2002	2654	.49	2748	.54	2836	.60	2920	.67	2999	.73	3144	.86	3278	.99	3408	1.11	3538	1.25	3668	1.39	3801	1.54
1250	2176	2820	.58	2909	.64	2995	.70	3075	.77	3153	.84	3298	.98	3429	1.12	3553	1.26	3673	1.39	3791	1.53	3911	1.68
1350	2350	2987	.70	3073	.76	3156	.82	3234	.89	3310	.96	3452	1.11	3583	1.26	3704	1.41	3819	1.56	3930	1.71	4040	1.86
1450	2524	3157	.82	3239	.89	3319	.95	3395	1.02	3469	1.09	3608	1.25	3737	1.41	3857	1.58	3970	1.74	4078	1.90	4182	2.05
1550	2698	3328	.96	3408	1.03	3485	1.10	3559	1.17	3630	1.25	3765	1.40	3891	1.57	4011	1.75	4123	1.93	4229	2.10		
1650	2872	3501	1.12	3579	1.20	3653	1.27	3724	1.35	3793	1.42	3924	1.58	4048	1.75	4166	1.94						
1750	3046	3677	1.29	3751	1.38	3822	1.46	3891	1.54	3958	1.62	4085	1.78	4206	1.95								
1850	3220	3851	1.48	3924	1.58	3993	1.66	4059	1.75	4124	1.83												
1950	3394	4030	1.69	4099	1.79	4166	1.89	4231	1.98														

120 CPS

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

135 CPS

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

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). **Shaded area indicates reinforced wheel required.**

Class II only available on 10 Day Express.

150 CPS

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

165 CPS

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

180 CPS

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

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). **Shaded area indicates reinforced wheel required.**

Class II only available on 10 Day Express.

195 CPS

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2500	1130	942	0.57	1068	0.81												
3200	1447	1067	0.82	1178	1.11	1279	1.41										
3900	1764	1204	1.16	1303	1.50	1395	1.84	1563	2.58	1721	3.38						
4600	2080	1351	1.61	1439	2.00	1523	2.39	1678	3.21	1820	4.08	1955	5.00	2088	5.99		
5300	2397	1505	2.18	1584	2.62	1659	3.06	1803	3.97	1936	4.93	2060	5.92	2179	6.97		
6000	2713	1663	2.89	1734	3.38	1803	3.87	1935	4.88	2060	5.93	2177	7.01	2288	8.12	2498	10.50
6700	3030	1824	3.75	1890	4.30	1953	4.85	2074	5.96	2191	7.10	2302	8.27	2407	9.47	2605	12.00
7400	3347	1988	4.78	2049	5.40	2107	6.00	2219	7.21	2327	8.45	2432	9.72	2533	11.00	2721	13.70
8100	3663	2154	6.01	2210	6.68	2264	7.34	2369	8.67	2470	10.00	2568	11.40	2663	12.80		
8800	3980	2321	7.44	2374	8.18	2424	8.89	2523	10.40	2617	11.80	2709	13.30				
9500	4297	2489	9.10	2538	9.88	2586	10.70	2679	12.20								
10200	4613	2658	11.00	2704	11.80												

210 CPS

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
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
8500	3313	1594	4.36	1666	5.09	1743	5.86	1880	7.37	1992	8.80	2094	10.20	2191	11.70		
9300	3625	1721	5.42	1783	6.19	1851	7.01	1987	8.69	2101	10.30	2200	11.90	2293	13.50		
10100	3936	1850	6.67	1905	7.47	1964	8.32	2093	10.20	2209	11.90	2308	13.70				
10900	4248	1980	8.10	2030	8.95	2082	9.83	2200	11.80	2316	13.80						
11700	4560	2112	9.76	2157	10.60	2205	11.60	2310	13.60								
12500	4872	2245	11.60	2287	12.60	2331	13.60										

225 CPS

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
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		
10400	3538	1571	5.84	1631	6.70	1697	7.62	1825	9.50	1931	11.30	2024	13.00	2111	14.80		
11400	3878	1701	7.33	1754	8.25	1811	9.22	1933	11.30	2041	13.30	2133	15.20				
12400	4218	1833	9.08	1880	10.00	1930	11.10	2041	13.30	2150	15.50						
13400	4559	1967	11.10	2009	12.10	2055	13.20	2153	15.50								
14400	4899	2102	13.50	2142	14.60	2182	15.70										

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Class II only available on 10 Day Express.

245 CPS

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
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
11600	3322	1369	5.96	1431	6.96	1497	8.02	1614	10.10	1711	12.00	1798	14.00	1880	16.00		
12700	3637	1480	7.44	1532	8.47	1590	9.59	1707	11.90	1805	14.10	1890	16.20	1969	18.40		
13800	3952	1592	9.17	1638	10.20	1688	11.40	1799	13.90	1899	16.40	1983	18.70				
14900	4267	1704	11.10	1747	12.30	1791	13.50	1891	16.20	1991	18.90						
16000	4582	1818	13.40	1856	14.60	1898	15.90	1987	18.70								
17100	4898	1934	16.10	1970	17.40												

270 CPS

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

300 CPS

CFM	OV	1.000 SP		1.500 SP		2.000 SP		3.000 SP		4.000 SP		5.000 SP		6.000 SP		8.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
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		
18700	3577	1190	10.70	1234	12.20	1283	13.90	1379	17.30	1458	20.50	1527	23.60	1593	26.80		
20500	3922	1289	13.40	1328	15.10	1369	16.80	1460	20.50	1542	24.20	1611	27.60				
22300	4266	1389	16.60	1424	18.40	1461	20.20	1543	24.20	1624	28.20						
24100	4611	1491	20.40	1522	22.20	1556	24.20	1628	28.30								
25900	4955	1594	24.80	1623	26.70												

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Class II only available on 10 Day Express.

Filtered Kitchen Supply Packaged Ventilator Side or Bottom Discharge Belt Drive



Bottom
Discharge



Side
Discharge



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



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



Type KSPB is furnished standard with cUL listing (Power Ventilator) when furnished with factory supplied motor.

Description: Fan shall be a side intake, roof mounted, belt driven, centrifugal filtered supply fan.

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: Fan shall be of bolted construction utilizing corrosion resistant fasteners. Housing shall be minimum 18 gauge galvanized steel, bolted to a minimum 16 gauge steel fan base with prepunched mounting holes. Unit shall be provided with an insulated top cover and one inch washable permanent aluminum filter. Internal blower and motor assembly shall be mounted on rubber vibration isolators. Unit shall bear an engraved aluminum nameplate and shall be shipped in ISTA Certified Transit Tested Packaging.

Wheel: Wheel shall be DWDI centrifugal forward curved type, constructed of painted steel. Wheel shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

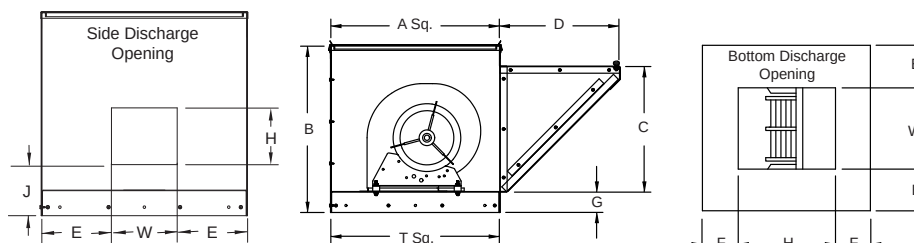
Motor: Motor shall be Nema design B with class B insulation rated for continuous duty and furnished at the specified voltage, phase and enclosure.

Bearings (Size 90-180) - Bearings shall be permanently lubricated, sealed ball type selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

Bearings (Size 200) - Bearings shall be designed and individually tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball type in a cast iron 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 KSPB as manufactured by Loren Cook Company of Springfield, Missouri.



Dimensions

Model	A Sq.	B	C (Height x Width)	D	E	F	G	T Sq.
90 KSPB	24-11/16	24	18 x 18-1/4	17-1/4	6-7/32	7	3	24-1/8
100 KSPB	28-11/16	27	21 x 22-1/4	20-1/4	7-5/8	8-7/16	3	28-1/8
120 KSPB	32-11/16	32-1/4	26-3/16 x 26-1/2	25-5/8	8-3/8	8-3/4	3	32-1/8
150 KSPB	32-11/16	37-7/8	31-5/16 x 28-1/2	30-3/4	6-7/8	6-5/16	3	32-1/8
180 KSPB	36-11/16	41-7/16	35-7/16 x 30-1/4	34-13/16	7-1/4	5-5/16	3	36-1/8
200 KSPB	48-11/16	49-7/16	37-7/16 x 42-1/4	36-13/16	11-11/16	12-15/16	3	48-1/8

Model	Discharge Opening (H x W)	J	Filters		Material Gauges		Roof Opening Square*	Approx. Ship Wt. Lbs.
			Qty.	Size	Base	Housing		
90 KSPB	10-1/8 x 11-9/16	5-1/4	1	17-3/4 x 22-3/4	16	18	19-1/2	183
100 KSPB	11-1/4 x 12-7/8	5-1/4	1	21-3/4 x 27	16	18	23-1/2	218
120 KSPB	13-5/16 x 15-3/8	5-1/4	1	25-3/4 x 34-3/8	16	18	27-1/2	253
150 KSPB	15-3/4 x 18-3/8	5-1/4	2	20-3/4 x 28	16	18	27-1/2	327
180 KSPB	18-3/4 x 21-5/8	5-1/4	2	23-5/8 x 29-3/4	16	18	31-1/2	392
200 KSPB	24-7/8 x 24-3/4	5-3/4	2	25 x 41-3/4	16	18	43-1/2	589

All dimensions in inches. *Roof opening size for curbs supplied by Cook only.

90 KSPB

CFM	Outlet Velocity	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
500	622	289	.01	485	.03																
600	747	347	.02	522	.04	653	.06														
700	871	405	.03	563	.05	683	.08	791	.11												
800	996	463	.04	609	.07	720	.10	818	.13	911	.17										
900	1120	521	.06	656	.09	759	.12	852	.16	938	.20										
1000	1245	578	.09	705	.12	801	.15	889	.19	970	.23	1121	.32								
1100	1369	636	.12	754	.16	846	.19	929	.23	1006	.27	1148	.36	1281	.46						
1200	1494	694	.15	803	.19	893	.23	971	.27	1045	.32	1179	.41	1306	.51	1426	.62				
1300	1618	752	.19	852	.24	942	.28	1015	.32	1085	.37	1215	.47	1334	.57	1449	.69	1559	.80		
1400	1743	810	.24	902	.29	991	.34	1061	.38	1127	.43	1252	.53	1367	.64	1476	.76	1581	.88		
1500	1867	868	.29	953	.35	1040	.40	1109	.45	1171	.50	1292	.60	1402	.72	1506	.84	1607	.97	1705	1.10
1600	1992	925	.36	1006	.41	1088	.47	1157	.52	1217	.57	1332	.68	1440	.80	1540	.93	1636	1.06		
1700	2117	983	.43	1058	.49	1137	.55	1206	.61	1265	.66	1374	.77	1478	.90	1576	1.03				
1800	2241	1041	.51	1112	.57	1186	.64	1255	.70	1313	.76	1418	.87	1519	1.00	1614	1.14				
1900	2366	1099	.60	1166	.66	1235	.73	1304	.80	1362	.86	1463	.98	1560	1.11						
2000	2490	1157	.70	1221	.77	1286	.84	1352	.91	1411	.98	1510	1.10								
2100	2615	1215	.81	1276	.88	1337	.95	1401	1.03	1460	1.11										
2200	2739	1272	.93	1331	1.00	1389	1.08														

100 KSPB

CFM	Outlet Velocity	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
700	703	215	.01	384	.03	510	.05	616	.07												
850	854	261	.02	408	.05	524	.07	624	.09	714	.12										
1000	1005	307	.04	437	.06	544	.09	638	.12	722	.15	872	.21								
1150	1155	354	.06	468	.09	568	.12	656	.15	736	.18	880	.25	1007	.32	1120	.40				
1300	1306	400	.08	502	.12	595	.15	678	.19	754	.22	891	.29	1014	.37	1126	.46	1228	.55		
1450	1457	446	.12	539	.15	625	.19	703	.23	775	.27	906	.35	1024	.43	1134	.52	1235	.61	1329	.71
1600	1608	492	.16	577	.20	656	.24	730	.28	799	.32	924	.41	1038	.50	1144	.59	1243	.69	1335	.79
1750	1758	538	.21	616	.25	690	.30	760	.34	825	.39	945	.48	1055	.57	1157	.67	1253	.77	1343	.88
1900	1909	584	.26	657	.31	725	.36	791	.41	854	.46	969	.56	1074	.66	1173	.77	1266	.87	1354	.98
2050	2060	630	.33	698	.38	762	.44	824	.49	883	.54	994	.65	1096	.76	1191	.87	1281	.98	1367	1.10
2200	2211	676	.41	740	.47	800	.52	858	.58	915	.64	1021	.75	1119	.86	1212	.98	1299	1.10	1382	1.22
2350	2361	723	.50	783	.56	838	.62	893	.68	947	.74	1050	.86	1145	.98	1234	1.11	1319	1.24	1400	1.37
2500	2512	769	.60	825	.67	878	.73	930	.79	981	.85	1080	.99	1172	1.12	1258	1.25	1340	1.38	1419	1.52
2650	2663	815	.72	869	.79	919	.85	968	.92	1017	.99	1111	1.12	1200	1.26	1284	1.40	1364	1.54		
2800	2814	861	.84	912	.92	960	.99	1007	1.06	1053	1.13	1143	1.27	1229	1.42						
2950	2964	907	.99	956	1.07	1001	1.14	1046	1.21	1090	1.29	1176	1.44								
3100	3115	953	1.15	1000	1.23	1043	1.31	1086	1.39	1128	1.46										

120 KSPB

CFM	Outlet Velocity	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	852	275	.04	388	.08	489	.11	575	.16												
1400	994	321	.07	419	.11	505	.15	593	.19	665	.25										
1600	1136	366	.10	449	.14	533	.20	608	.24	684	.30										
1800	1278	412	.14	483	.19	565	.25	629	.30	699	.35	822	.49								
2000	1420	458	.20	521	.25	596	.32	659	.38	716	.43	841	.56	942	.72						
2200	1562	504	.26	561	.32	625	.38	691	.47	744	.53	856	.65	961	.81	1050	.99				
2400	1704	549	.34	602	.40	657	.46	723	.56	775	.63	872	.76	979	.91	1068	1.09	1149	1.29		
2600	1846	595	.43	644	.50	693	.56	752	.65	808	.75	897	.90	992	1.04	1087	1.21	1167	1.41	1242	1.64
2800	1988	641	.54	687	.61	731	.68	782	.76	839	.88	927	1.05	1009	1.19	1102	1.36	1187	1.56	1260	1.78
3000	2130	687	.67	729	.74	771	.81	816	.89	868	1.00	959	1.22	1035	1.38	1116	1.54	1203	1.73	1280	1.94
3200	2272	733	.81	773	.89	811	.97	852	1.04	898	1.14	992	1.40	1066	1.58	1137	1.75	1216	1.93	1296	2.13
3400	2414	778	.97	816	1.06	852	1.14	890	1.22	930	1.31	1023	1.58	1097	1.80	1164	1.98	1233	2.16	1309	2.35
3600	2556	824	1.15	860	1.24	895	1.33	929	1.41	966	1.50	1052	1.77	1130	2.04	1195	2.24	1257	2.42	1325	2.62
3800	2698	870	1.35	905	1.46	936	1.54	969	1.63	1003	1.72	1082	1.97	1162	2.28	1227	2.52	1286	2.72	1347	2.91
4000	2840	916	1.58	949	1.69	980	1.79	1010	1.87	1042	1.97	1112	2.19	1192	2.53	1259	2.81	1317	3.03		
4200	2982	962	1.83	993	1.94	1022	2.04	1051	2.14	1081	2.23	1146	2.45	1221	2.78	1291	3.11				
4400	3125	1007	2.10	1037	2.22	1066	2.33	1094	2.43	1122	2.53	1181	2.74	1251	3.05						
4600	3267	1053	2.40	1082	2.52	1109	2.64	1135	2.75	1163	2.86	1218	3.07								

Performance shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings include the effects of air filters in the airstream.

KSPB Performance Data

150 KSPB

CFM	Outlet Velocity	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2100	1053	271	.10	353	.15	434	.21	500	.27	558	.33	661	.46	752	.62	832	.78				
2400	1203	309	.15	377	.20	457	.27	520	.34	576	.40	675	.55	763	.71	842	.88	915	1.06	982	1.25
2700	1354	348	.21	405	.27	479	.35	542	.42	595	.49	691	.65	776	.81	853	.99	925	1.19	992	1.39
3000	1504	387	.29	437	.35	501	.44	564	.52	617	.60	709	.77	791	.94	867	1.13	936	1.33	1002	1.54
3300	1654	425	.39	470	.45	525	.54	586	.64	639	.73	729	.91	809	1.09	882	1.29	950	1.49	1014	1.71
3600	1805	464	.51	505	.57	552	.66	608	.77	661	.87	750	1.06	827	1.26	899	1.47	965	1.68	1028	1.91
3900	1955	503	.65	540	.72	582	.81	631	.92	683	1.03	772	1.24	848	1.46	917	1.67	982	1.89	1043	2.13
4200	2106	541	.81	576	.88	613	.97	657	1.09	705	1.21	794	1.44	869	1.67	937	1.90	1000	2.13	1060	2.38
4500	2256	580	.99	613	1.07	646	1.16	685	1.28	729	1.42	817	1.67	891	1.91	957	2.15	1019	2.40	1078	2.65
4800	2407	619	1.21	649	1.29	680	1.38	715	1.50	754	1.64	838	1.92	914	2.18	979	2.43	1040	2.70	1097	2.96
5100	2557	657	1.44	686	1.53	715	1.63	746	1.74	781	1.88	860	2.19	936	2.47	1001	2.73	1061	3.01	1117	3.29
5400	2708	696	1.71	724	1.81	750	1.91	779	2.02	810	2.16	883	2.48	958	2.79	1024	3.08	1083	3.36	1138	3.66
5700	2858	735	2.02	761	2.12	786	2.22	812	2.33	841	2.47	908	2.81	979	3.14	1046	3.44	1106	3.75	1160	4.05
6000	3009	773	2.35	798	2.46	822	2.57	847	2.68	873	2.81	934	3.15	1002	3.52	1068	3.85	1128	4.17	1182	4.48
6300	3159	812	2.72	836	2.84	859	2.95	882	3.07	906	3.20	962	3.54	1025	3.92	1090	4.28	1150	4.61	1205	4.95
6600	3309	851	3.13	874	3.25	895	3.36	917	3.49	940	3.62	991	3.95	1050	4.35	1112	4.74	1172	5.10	1227	5.45
6900	3460	889	3.57	912	3.71	932	3.82	953	3.95	974	4.08	1022	4.41	1076	4.81	1135	5.23				
7200	3610	928	4.06	950	4.20	969	4.32	989	4.45	1010	4.60	1054	4.92	1104	5.31						
7500	3761	967	4.60	988	4.74	1006	4.86	1025	4.99	1045	5.14	1086	5.45								
7800	3911	1005	5.16	1026	5.32	1044	5.45														

180 KSPB

CFM	Outlet Velocity	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2900	1036	304	.21	363	.28	416	.36	469	.46	513	.56										
3200	1144	335	.28	389	.36	438	.44	487	.54	532	.65										
3500	1251	367	.36	416	.45	462	.54	506	.64	551	.76	626	1.00								
3800	1358	398	.46	444	.56	487	.66	527	.76	569	.87	644	1.14	709	1.41						
4100	1465	430	.59	472	.69	513	.79	551	.90	588	1.01	663	1.29	726	1.58						
4400	1573	461	.72	500	.83	539	.95	575	1.06	610	1.18	681	1.45	745	1.76	801	2.08				
4700	1680	492	.88	530	1.00	566	1.12	601	1.24	633	1.36	700	1.64	764	1.96	819	2.29	871	2.63		
5000	1787	524	1.06	559	1.19	593	1.32	626	1.44	658	1.57	719	1.85	782	2.17	838	2.53	888	2.88	937	3.24
5300	1894	555	1.26	589	1.40	620	1.53	652	1.67	683	1.81	740	2.08	800	2.41	856	2.77	907	3.16	953	3.53
5600	2002	587	1.49	618	1.63	648	1.77	679	1.92	708	2.06	763	2.35	819	2.68	875	3.05	925	3.43	971	3.83
5900	2109	618	1.74	648	1.89	677	2.05	706	2.20	734	2.34	787	2.65	839	2.97	893	3.34	944	3.74		
6200	2216	650	2.02	679	2.19	705	2.34	733	2.50	760	2.65	812	2.97	861	3.30	911	3.66	962	4.08		
6500	2323	681	2.32	709	2.50	735	2.67	761	2.83	787	3.00	837	3.33	884	3.66	931	4.02				
6800	2431	712	2.66	739	2.84	764	3.02	788	3.18	814	3.37	862	3.70	908	4.06	952	4.42				
7100	2538	744	3.03	769	3.22	793	3.40	817	3.58	841	3.76	888	4.12	932	4.48	975	4.86				
7400	2645	775	3.43	800	3.63	823	3.82	845	4.00	868	4.19	914	4.57	958	4.96						
7700	2752	807	3.87	831	4.08	853	4.28	874	4.46	896	4.66	941	5.06								
8000	2860	838	4.33	862	4.56	882	4.75	904	4.97	924	5.15										

200 KSPB

CFM	Outlet Velocity	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
3500	822	225	.17	287	.26	343	.35	395	.47	436	.58										
4000	940	257	.26	310	.35	363	.46	411	.58	455	.71										
4500	1057	289	.37	334	.46	386	.60	428	.71	471	.85	542	1.14								
5000	1175	321	.50	360	.60	408	.75	450	.89	487	1.02	561	1.36	619	1.66						
5500	1292	354	.67	387	.76	431	.92	472	1.09	507	1.23	576	1.56	638	1.94	689	2.26				
6000	1410	386	.87	416	.97	454	1.12	494	1.31	529	1.48	592	1.80	655	2.21	708	2.60	754	2.96		
6500	1527	418	1.11	446	1.21	479	1.36	517	1.57	552	1.77	611	2.09	670	2.50	726	2.96	772	3.35	815	3.74
7000	1645	450	1.38	476	1.50	505	1.64	540	1.85	574	2.07	633	2.45	686	2.82	741	3.29	791	3.78	834	4.21
7500	1763	482	1.70	507	1.83	532	1.96	564	2.17	597	2.41	655	2.85	706	3.23	756	3.66	807	4.19	852	4.70
8000	1880	514	2.06	537	2.19	561	2.34	588	2.53	619	2.77	678	3.28	727	3.69	774	4.11	822	4.62	868	5.18
8500	1998	546	2.47	568	2.61	590	2.77	615	2.96	643	3.19	700	3.74	749	4.21	794	4.64	838	5.11	883	5.67
9000	2115	579	2.94	599	3.08	620	3.25	642	3.43	668	3.67	722	4.22	772	4.77	815	5.22	857	5.69	899	6.22
9500	2233	611	3.46	630	3.61	649	3.77	670	3.96	693	4.18	745	4.76	794	5.36	837	5.87	877	6.34	917	6.86
10000	2350	643	4.03	661	4.19	680	4.37	699	4.56	720	4.78	768	5.34	817	6.00	860	6.57	899	7.08	937	7.59
10500	2468	675	4.67	693	4.84	710	5.01	727	5.19	747	5.42	792	5.99	839	6.66	882	7.30				
11000	2585	707	5.36	725	5.56	740	5.72	757	5.91	775	6.13	816	6.68	862	7.39						
11500	2703	739	6.12	757	6.34	771	6.50	787	6.70	804	6.92	842	7.47								
12000	2820	771	6.95	788	7.18	803	7.38	817	7.56												

Performance shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings include the effects of air filters in the airstream.

Description: Fan shall be a hooded, roof mounted, belt driven, centrifugal filtered supply fan.

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 construction utilizing corrosion resistant fasteners. Housing shall be minimum 18 gauge galvanized steel, bolted to a minimum 16 gauge steel fan base with prepunched mounting holes. Unit shall be provided with an insulated top cover and 1" washable permanent aluminum filters. Internal blower and motor assembly shall be mounted on rubber vibration isolators. 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.

Wheel: Wheel shall be DWDI centrifugal forward curved type, constructed of painted steel. 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 ball bearing type selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

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

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

Air Supply Package Forward Curve Belt Drive Bottom or Side Discharge Roof Mounted



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



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

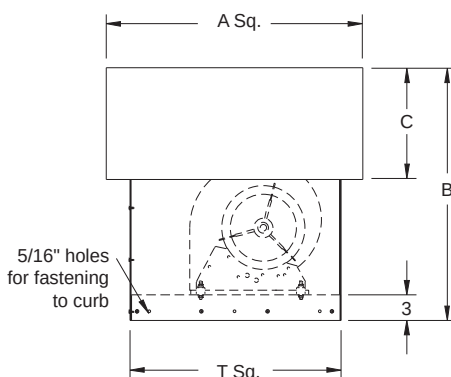
Centrifugal Filtered Supply Fans

ASP Dimensions

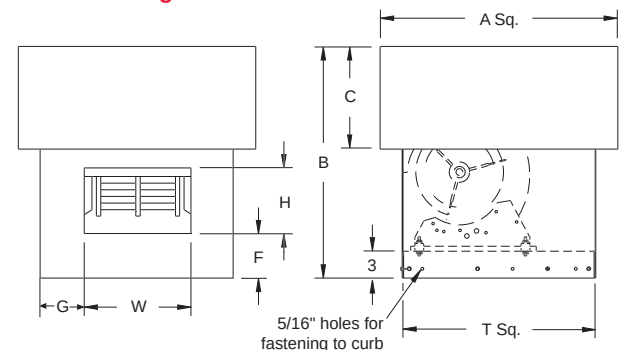
Size	A	B		C	D	E	F	G	T Sq.	Discharge Opening (H x W)	Filters		Material Gauges		Roof Opening Square*	Approx. Ship Wt.-Lbs.**
		Bottom	Side								Qty.	Size	Base	Housing		
90	33-1/8	26-1/2	27-1/2	10-1/2	6-7/32	7	5-1/4	6-5/32	24-1/8	10-1/8 x 11-9/16	4	10-1/4 x 19-3/4	16	18	19-1/2	230
100	38-1/2	30	31	12-1/4	7-5/8	8-7/16	5-1/4	7-1/2	28-1/8	11-1/4 x 12-7/8	4	12 x 24	16	18	23-1/2	250
120	42-1/2	33-1/4	37-1/4	16-1/2	8-3/8	8-3/4	5-1/4	8-1/4	32-1/8	13-5/16 x 15-3/8	4	16 x 28	16	18	27-1/2	290
150	45-3/4	36-1/4	39-3/4	16-1/2	6-7/8	6-5/16	5-1/4	6-3/4	32-1/8	15-3/4 x 18-3/8	4	16 x 28	16	18	27-1/2	330
180	55-3/4	40-1/4	49	22-3/4	7-1/4	5-5/16	5-1/4	7-1/8	36-1/8	18-3/4 x 21-5/8	4	20 x 32	16	18	31-1/2	500
200	68	47-1/4	60	29	11-11/16	10-5/8	5-3/4	11-11/16	48-1/8	24-3/4 x 24-3/4	4	27-3/4 x 44	16	18	43-1/2	750

All dimensions in inches. Weight in pounds. *Roof opening size for curbs supplied by Loren Cook Co. only. **Less motor.

Bottom Discharge



Side Discharge



90 ASP

CFM	Out. Vel.	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
600	714	257	0.01	414	0.03																				
700	833	300	0.02	433	0.04	563	0.06																		
800	952	343	0.03	456	0.05	578	0.07																		
900	1071	385	0.05	481	0.07	594	0.09	696	0.12																
1000	1190	428	0.07	509	0.08	614	0.11	711	0.14	798	0.17														
1100	1309	471	0.09	541	0.11	637	0.13	727	0.16	812	0.19	890	0.23												
1200	1428	514	0.12	576	0.13	662	0.16	747	0.19	828	0.23	904	0.26	974	0.30										
1300	1547	557	0.15	613	0.17	688	0.19	769	0.23	845	0.26	919	0.30	988	0.34										
1400	1666	600	0.18	651	0.20	716	0.23	793	0.27	865	0.30	935	0.34	1003	0.38	1126	0.46								
1500	1785	642	0.22	691	0.25	747	0.27	818	0.31	888	0.35	954	0.39	1019	0.43	1140	0.52	1251	0.60						
1600	1904	685	0.27	730	0.30	780	0.32	845	0.36	912	0.40	975	0.45	1037	0.49	1155	0.58	1264	0.67						
1700	2023	728	0.33	771	0.35	815	0.38	873	0.42	937	0.46	998	0.50	1057	0.55	1171	0.64	1278	0.74	1378	0.84				
1800	2142	771	0.39	811	0.41	853	0.44	903	0.48	963	0.52	1022	0.57	1078	0.62	1188	0.71	1293	0.82	1391	0.92	1483	1.02		
1900	2261	814	0.46	852	0.49	891	0.51	935	0.55	990	0.59	1047	0.64	1102	0.69	1207	0.79	1309	0.90	1406	1.01	1497	1.12		
2000	2380	857	0.53	893	0.56	929	0.59	970	0.63	1019	0.67	1073	0.72	1126	0.77	1228	0.88	1326	0.99	1421	1.10				
2100	2500	899	0.62	935	0.65	969	0.68	1005	0.71	1049	0.75	1100	0.81	1152	0.86	1250	0.97	1345	1.08						
2200	2619	942	0.71	976	0.74	1008	0.77	1043	0.81	1082	0.85	1128	0.90	1178	0.96	1274	1.07								
2300	2738	985	0.81	1016	0.84	1048	0.88	1080	0.91	1116	0.95	1158	1.00	1205	1.06										

100 ASP

CFM	Out. Vel.	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
850	819	236	0.02	379	0.04																				
1000	964	277	0.04	403	0.06	510	0.09																		
1150	1108	319	0.06	430	0.09	529	0.12	617	0.15																
1300	1253	361	0.08	460	0.11	551	0.15	634	0.18	709	0.22														
1450	1398	402	0.11	491	0.15	576	0.19	653	0.22	726	0.26	793	0.30												
1600	1542	444	0.15	525	0.19	603	0.23	676	0.27	744	0.32	809	0.36	870	0.40										
1750	1687	485	0.20	560	0.24	632	0.29	701	0.33	765	0.38	827	0.42	886	0.47										
1900	1832	527	0.25	596	0.30	663	0.35	728	0.40	789	0.45	847	0.50	904	0.55	1010	0.65								
2050	1976	568	0.32	633	0.37	695	0.42	756	0.47	815	0.53	870	0.58	924	0.63	1027	0.75	1121	0.86						
2200	2121	610	0.39	670	0.45	728	0.50	785	0.56	841	0.62	895	0.67	946	0.73	1044	0.85	1137	0.97						
2350	2266	652	0.48	708	0.54	763	0.60	817	0.66	870	0.72	921	0.78	970	0.84	1064	0.96	1154	1.09	1240	1.22				
2500	2410	693	0.58	747	0.64	798	0.70	849	0.77	899	0.83	948	0.89	996	0.96	1086	1.09	1173	1.22	1256	1.36	1335	1.50		
2650	2555	735	0.69	786	0.76	834	0.82	882	0.89	929	0.95	977	1.02	1022	1.09	1110	1.23	1193	1.37	1274	1.51	1351	1.65		
2800	2700	776	0.81	825	0.89	871	0.96	916	1.02	961	1.09	1006	1.16	1050	1.24	1135	1.38	1215	1.53						
2950	2844	818	0.95	864	1.03	907	1.10	951	1.17	994	1.25	1037	1.32	1079	1.40	1161	1.55								
3100	2989	860	1.10	904	1.19	945	1.26	986	1.34	1027	1.41	1068	1.49	1109	1.57										
3250	3134	901	1.27	943	1.35	983	1.44	1022	1.52	1062	1.60														
3400	3278	943	1.45	983	1.54	1022	1.63																		

120 ASP

CFM	Out. Vel.	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1200	833	229	0.04	347	0.07	449	0.10																		
1400	972	267	0.06	370	0.09	464	0.13																		
1600	1111	305	0.09	397	0.13	481	0.16	559	0.21																
1800	1249	343	0.12	425	0.17	502	0.21	575	0.26	642	0.31														
2000	1388	381	0.17	454	0.21	526	0.26	593	0.32	658	0.37	717	0.43												
2200	1527	419	0.22	485	0.27	552	0.33	614	0.38	675	0.44	732	0.50	787	0.57										
2400	1666	457	0.29	517	0.34	580	0.41	638	0.46	694	0.52	749	0.59	801	0.66	898	0.79								
2600	1805	495	0.37	550	0.42	609	0.49	664	0.56	716	0.62	768	0.69	818	0.76	913	0.91								
2800	1944	533	0.46	584	0.52	638	0.59	691	0.66	740	0.73	788	0.80	836	0.87	928	1.03	1013	1.19						
3000	2083	571	0.56	619	0.63	669	0.70	719	0.78	766	0.86	811	0.93	856	1.00	944	1.17	1027	1.34	1104	1.51				
3200	2222	610	0.68	654	0.75	700	0.83	748	0.92	793	1.00	836	1.07	879	1.15	962	1.32	1043	1.50	1119	1.68	1190	1.86		
3400	2361	648	0.82	690	0.89	732	0.97	777	1.06	821	1.15	863	1.24	903	1.32	982	1.49	1060	1.68	1134	1.86	1204	2.06		
3600	2499	686	0.97	725	1.05	765	1.13	807	1.22	850	1.32	890	1.41	928	1.50	1004	1.68	1078	1.87	1150	2.06				
3800	2638	724	1.14	762	1.23	799	1.31	838	1.40	879	1.51	918	1.61	955	1.70	1027	1.89	1098	2.08						
4000	2777	762	1.33	798	1.42	833	1.51	870	1.61	909	1.72	947	1.82	983	1.92	1052	2.12								
4200	2916	800	1.54	834	1.63	867	1.72	903	1.83	939	1.94	976	2.05	1011	2.16										
4400	3055	838	1.77	871	1.87	903	1.97	936	2.07	970	2.18														
4600	3194	876	2.03	908	2.13																				

Performance shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings include the effects of filters in the airstream.

150 ASP

CFM	Out. Vel.	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1700	828	185	0.05	285	0.09	378	0.14																		
2000	974	218	0.08	304	0.13	386	0.18																		
2300	1120	251	0.12	324	0.17	398	0.23	468	0.30																
2600	1266	284	0.17	347	0.23	415	0.29	478	0.37	539	0.45														
2900	1412	316	0.24	370	0.30	434	0.37	492	0.45	548	0.53	603	0.63	653	0.72										
3200	1558	349	0.32	396	0.38	455	0.46	509	0.55	561	0.63	612	0.73	661	0.83										
3500	1704	382	0.42	424	0.49	477	0.57	528	0.66	576	0.75	623	0.85	670	0.96	758	1.18								
3800	1850	415	0.54	453	0.61	499	0.70	549	0.80	594	0.89	638	0.99	681	1.10	766	1.33	844	1.58						
4100	1997	447	0.68	483	0.76	524	0.84	570	0.95	614	1.05	655	1.16	696	1.27	775	1.50	853	1.77	923	2.03				
4400	2143	480	0.84	513	0.92	549	1.01	592	1.12	635	1.23	674	1.34	712	1.46	787	1.70	861	1.97	931	2.25	996	2.54		
4700	2289	513	1.02	543	1.10	576	1.20	615	1.31	656	1.43	694	1.55	731	1.68	801	1.92	871	2.19	940	2.49	1005	2.80	1065	
5000	2435	545	1.23	575	1.32	604	1.41	640	1.53	678	1.66	715	1.79	751	1.92	818	2.17	883	2.44	949	2.75	1013	3.07		
5300	2581	578	1.46	606	1.56	633	1.66	665	1.78	701	1.91	737	2.05	771	2.18	836	2.45	898	2.73	960	3.03				
5600	2727	611	1.73	637	1.83	663	1.94	692	2.05	724	2.18	759	2.33	792	2.47	855	2.76	915	3.05						
5900	2873	644	2.02	669	2.13	693	2.24	719	2.35	749	2.49	782	2.64	814	2.79	875	3.09								
6200	3019	676	2.34	700	2.46	723	2.57	747	2.69	775	2.83	805	2.98	836	3.13										
6500	3166	709	2.70	732	2.82	754	2.94	776	3.06	801	3.19														
6800	3312	742	3.09	763	3.22																				

180 ASP

CFM	Out. Vel.	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2450	868	168	0.07	254	0.13	329	0.2	394	0.28																
2850	1010	196	0.11	270	0.18	340	0.26	400	0.34	455	0.43														
3250	1152	223	0.17	290	0.24	352	0.33	410	0.42	461	0.51	509	0.61	555	0.72										
3650	1294	251	0.24	311	0.32	366	0.41	421	0.51	470	0.61	516	0.72	559	0.83										
4050	1436	278	0.33	334	0.42	383	0.51	433	0.62	481	0.73	525	0.85	566	0.96	644	1.22								
4450	1578	306	0.43	357	0.54	403	0.64	447	0.74	493	0.87	536	0.99	575	1.12	650	1.39	719	1.67						
4850	1719	333	0.56	380	0.67	424	0.79	464	0.89	506	1.02	547	1.15	586	1.29	658	1.57	724	1.86	787	2.18	846	2.51		
5250	1861	361	0.71	405	0.84	445	0.95	483	1.07	521	1.2	560	1.34	598	1.49	667	1.78	731	2.09	792	2.41	850	2.75	905	
5650	2003	388	0.88	429	1.02	467	1.15	503	1.27	538	1.4	574	1.55	610	1.7	678	2.01	741	2.35	799	2.67	855	3.02	909	
6050	2145	416	1.09	454	1.23	490	1.37	525	1.51	557	1.64	590	1.79	623	1.94	690	2.28	751	2.62	808	2.97	862	3.33	915	
6450	2287	443	1.32	479	1.47	514	1.63	546	1.77	577	1.91	608	2.06	639	2.22	702	2.56	762	2.92	818	3.29	871	3.67	921	
6850	2429	471	1.58	505	1.75	537	1.9	568	2.05	598	2.21	627	2.36	656	2.52	715	2.87	774	3.26	829	3.65	880	4.03	930	
7250	2570	498	1.87	531	2.05	561	2.21	591	2.38	620	2.54	648	2.71	675	2.87	729	3.21	786	3.61	840	4.02	891	4.43	939	
7650	2712	525	2.19	557	2.39	586	2.57	614	2.74	642	2.91	669	3.09	694	3.24	746	3.61	799	4.01	852	4.43	902	4.86	950	
8050	2854	553	2.56	583	2.76	611	2.96	638	3.14	664	3.31	690	3.49	715	3.67	764	4.04	813	4.43	864	4.87	914	5.33		
8450	2996	580	2.95	609	3.17	635	3.37	662	3.57	687	3.76	712	3.95	736	4.13	783	4.51	829	4.9	878	5.36				
8850	3138	608	3.4	635	3.62	661	3.84	686	4.05	710	4.24	734	4.43	758	4.64	803	5.03	847	5.43						
9250	3280	635	3.87	662	4.12	686	4.34	710	4.55	734	4.77	757	4.97	780	5.19										
9650	3421	663	4.41	688	4.65	712	4.89	735	5.12	758	5.34														

200 ASP

CFM	Out. Vel.	0.000" SP		0.125" SP		0.250" SP		0.375" SP		0.500" SP		0.625" SP		0.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
2800	658	129	0.06	218	0.12	287	0.20	343	0.29																
3600	846	166	0.12	239	0.20	299	0.29	354	0.40	401	0.51	443	0.62												
4400	1034	203	0.22	262	0.31	321	0.43	366	0.54	412	0.67	454	0.80	491	0.93										
5200	1222	240	0.36	290	0.47	341	0.60	388	0.74	426	0.87	464	1.01	502	1.17	568	1.48	627	1.80						
6000	1410	276	0.55	320	0.68	363	0.82	409	0.99	447	1.14	481	1.29	513	1.43	580	1.80	638	2.16	691	2.52	740	2.89		
6800	1598	313	0.80	352	0.95	390	1.09	429	1.27	469	1.46	503	1.64	532	1.79	591	2.15	649	2.55	703	2.97	751	3.38	796	3.79
8000	1880	369	1.31	401	1.47	434	1.64	467	1.84	500	2.04	534	2.26	566	2.48	619	2.87	668	3.27	718	3.71	768	4.21	813	4.68
8800	2068	406	1.75	435	1.92	465	2.11	495	2.31	524	2.52	554	2.74	586	3.00	642	3.47	688	3.89	732	4.31	778	4.81	824	5.34
9600	2256	442	2.26	469	2.45	497	2.66	525	2.88	552	3.10	578	3.32	606	3.58	663	4.13	711	4.62	753	5.08	793	5.53	835	6.06
10400	2444	479	2.87	505	3.10	529	3.30	555	3.53	580	3.76	605	4.01	630	4.27	682	4.83	733	5.42	775	5.93	814	6.43	851	6.92
11200	2632	516	3.59	539	3.81	563	4.06	586	4.29	610	4.54	633	4.79	656	5.06	703	5.63	752	6.26	797	6.87	836	7.42		
12000	2820	553	4.42	575	4.66	596	4.91	618	5.16	641	5.44	663	5.71	684	5.97	727	6.56	772	7.20						
12800	3008	590	5.37	611	5.64	631	5.90	651	6.16	672	6.44	693	6.73	713	7.00	753	7.60								
13200	3102	608	5.87	629	6.17	648	6.43	667	6.69	687	6.97	708	7.28	728	7.57										
14000	3291	645	7.01	664	7.31	683	7.61																		

Performance certified is for Installation Type B: Free inlet, Ducted outlet. Power rating (BHP) does not include transmission losses. Performance ratings include the effects of filters.

Wall Fan Aluminum Propeller Direct Drive



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



Model XWD is furnished standard with UL 705 and CUL 705 listing (Power Ventilator) when furnished with factory supplied motor.

Description: Fan shall be a wall mounted, direct driven, propeller exhaust fan.

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: Fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The motor shall be mounted on a 12 gauge plated steel wire guard. The wire guard shall be bolted to a minimum 14 gauge steel panel with continuously welded corners and an integral venturi. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM and static pressure. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

Coating: All non-plated 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 1.5 to 2.5 mil thick baked powder finish. Paint must exceed 1,000 hours salt spray under ASTM B117 test method.

Propeller: Propeller shall have aluminum blades riveted to a painted steel hub. The hub shall be securely fastened to the motor shaft utilizing two setscrews. Propeller shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Motor: Motor shall be 115/1/60, with permanently lubricated sealed bearings.

Product: Fan shall be type XWD as manufactured by LOREN COOK COMPANY of Springfield, Missouri.

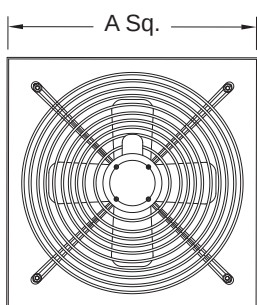
Also available in a supply model: XWD-S

Dimensions

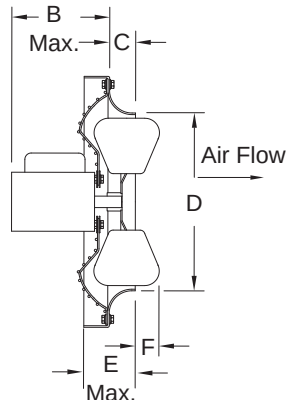
SIZE	A		B	C	D	E	F	G	H	WALL OPENING*		SHIPPING WEIGHT	
	Exhaust	Supply								Exhaust	Supply	Exhaust	Supply
8	12-3/16	12-1/8	3-1/4	1	8-3/4	3	3/4	15-3/16	12	12-7/16	12-7/8	12	28
10	16-3/16	16-3/16	4-3/4	1-1/2	10-3/4	3-1/2	1-1/2	19-1/4	14-3/8	16-7/16	17	20	42
12	16-3/16	16-3/16	4-3/4	1-3/4	12-3/4	3-3/4	1-1/2	19-1/4	14-3/8	16-7/16	17	22	44
14	20-3/16	20-3/16	5-13/16	2-1/2	14-3/4	4-1/2	1-5/8	23-1/4	15-3/8	20-7/16	21	26	54
16	20-3/16	20-3/16	5-13/16	2-1/2	16-3/4	4-1/2	2	23-1/4	15-3/8	20-7/16	21	30	58
18	24-3/16	24-3/16	5-13/16	2-3/4	18-3/4	4-3/4	2-1/8	27-1/4	17-5/8	24-7/16	25	34	67
20	24-3/16	24-3/16	5-13/16	2-3/4	20-3/4	4-3/4	2-1/8	27-1/4	17-5/8	24-7/16	25	40	73
24	30-3/16	30-3/16	6-1/16	3-3/4	25	6-5/8	1-3/8	33-1/4	18-3/4	30-7/16	31	48	95

All dimensions in inches. Weight in pounds, less motor. *See accessories for wall opening.

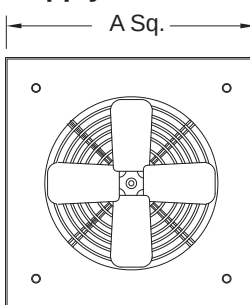
Exhaust



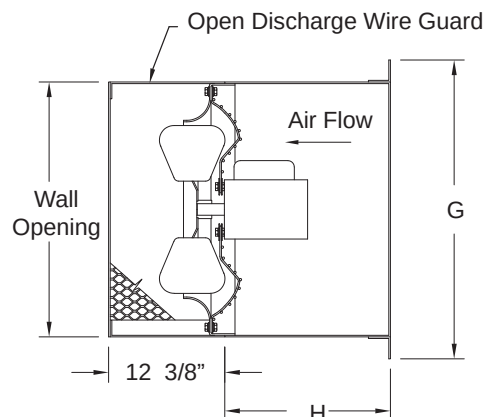
Rotation



Supply



Rotation



Fan Size	Catalog Number	HP	Max. Watts	Fan RPM	FA Sones	CFM at Static Pressure								
						0.000	0.050	0.100	0.125	0.150	0.200	0.250	0.300	0.375
8	8XW21D15	1/80	34	1550	3.7	220	164							
	8XW24D15	1/80	40	1550	4.7	299	240	196						
	8XW28D15	1/80	40	1550	5.6	333	264	188						
	8XW38D15	1/80	46	1550	6.1	419	298							
10	10XW24D10	1/25	72	1075	3.9	422	309							
	10XW24D103	1/20	57	1075	1.9	571	499	421	367	311				
	10XW24D133	1/20	63	1300	3.1	585	518	453	408	368				
	10XW24D15	1/20	90	1550	5.2	613	556	503	474	440				
	10XW24D153	1/20	110	1550	5.1	620	560	513	487	459				
	10XW28D10	1/25	73	1075	3.7	459	342							
	10XW28D103	1/20	56	1075	2.0	599	534	453	391					
	10XW28D133	1/20	64	1300	3.2	622	562	475	426	375				
	10XW28D15	1/20	94	1550	5.4	675	622	566	536	503				
	10XW28D153	1/20	112	1550	5.4	668	616	558	520	477				
	10XW40D103	1/6	70	1075	3.1	767	718	653	560					
	10XW40D133	1/6	85	1300	4.5	821	779	728	689	609				
	10XW40D15	1/8	95	1550	6.4	890	847	796	759	688				
	10XW40D153	1/6	160	1550	6.5	875	825	773	742	689				
	10XW41D15	1/20	144	1550	6.8	872	828	776	741	687	524			
12	12XW26D103	1/6	78	1075	3.5	981	912	834	792	748	614			
	12XW26D132	1/4	118	1300	4.9	1098	1046	990	959	926	854	776	687	
	12XW26D133	1/6	90	1300	5.0	1056	994	927	891	853	770	680		
	12XW26D15	1/8	91	1550	7.4	1092	1041	984	951	915	845	769		
	12XW26D152	1/4	121	1550	6.4	1106	1059	1008	980	948	876	797	714	
	12XW26D153	1/6	171	1550	7.0	1083	1031	977	948	918	852	770		
	12XW32D10	1/6	90	1075	4.3	890	832	729	628					
	12XW32D103	1/6	88	1075	3.9	1122	1006	908	842	760				
	12XW32D132	1/4	136	1300	5.5	1270	1227	1179	1151	1115	1018	912		
	12XW32D133	1/6	107	1300	5.5	1190	1129	1065	1029	988	862			
	12XW32D15	1/8	122	1550	7.5	1275	1224	1168	1134	1092	996	900		
	12XW32D152	1/4	148	1550	8.0	1303	1252	1198	1168	1134	1054	966	862	
	12XW32D153	1/6	184	1550	7.4	1267	1221	1172	1144	1112	1024	914		
	12XW36D10	1/6	94	1075	4.6	994	912	792	702					
	12XW36D103	1/6	97	1075	4.3	1127	1013	883	775					
	12XW36D132	1/4	160	1300	5.8	1424	1368	1311	1282	1252	1184	1061	917	
	12XW36D133	1/6	123	1300	6.6	1235	1170	1090	1033	958	805			
	12XW36D152	1/4	173	1550	9.1	1432	1385	1335	1309	1281	1215	1108	962	
	12XW36D153	1/6	203	1550	8.9	1379	1324	1268	1238	1207	1129	974	821	
	12XW40D15	1/6	222	1550	9.0	1474	1422	1367	1336	1302	1212			
14	14XW20D082	1/6	79	860	4.0	934	863	781	732	681				
	14XW20D10	1/25	97	1075	6.6	931	807	731	693	627				
	14XW20D102	1/6	118	1075	6.5	955	868	793	752	705				
	14XW20D132	1/4	167	1300	8.4	1315	1265	1213	1186	1158	1098	1036	965	834
	14XW20D15	1/8	157	1550	12.3	1280	1228	1176	1149	1122	1065	999	921	
	14XW20D152	1/4	196	1550	12.6	1334	1289	1242	1217	1191	1135	1076	1016	882
	14XW26D082	1/6	93	860	4.0	1216	1139	1069	1034	990	799			
	14XW26D10	1/6	105	1075	6.2	1216	1158	1091	1049	1000	863			
	14XW26D102	1/6	131	1075	6.7	1228	1168	1096	1046	991	864			
	14XW26D132	1/4	204	1300	8.1	1667	1622	1576	1551	1526	1469	1401	1310	1114
	14XW26D152	1/4	231	1550	11.4	1714	1670	1626	1603	1579	1528	1470	1402	1259
	14XW32D132	1/4	244	1300	8.2	1969	1904	1837	1801	1762	1675	1580	1486	
	14XW32D152	1/4	269	1550	12.0	2070	2014	1956	1926	1894	1823	1740	1655	
	14XW40D132	1/3	341	1300	10.1	2254	2164	2073	2025	1976	1858	1626		
	14XW40D152	1/3	405	1550	15.3	2461	2400	2338	2305	2270	2191	2091	1918	

Performance shown is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels.

Fan Size	Catalog Number	HP	Max. Watts	Fan RPM	FA Sones	CFM at Static Pressure									
						0.000	0.050	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500
16	16XW21D082	1/6	144	860	5.1	1441	1364	1275	1218	1155	1033	886			
	16XW21D10	1/6	161	1075	7.7	1465	1392	1311	1263	1207	1078	951			
	16XW21D102	1/6	187	1075	7.7	1489	1416	1335	1288	1232	1098	964	825		
	16XW21D132	1/4	274	1300	10.4	1964	1898	1832	1797	1762	1688	1600	1472	1261	
	16XW21D152	1/4	331	1550	14.0	2048	1995	1941	1913	1884	1819	1744	1659	1521	1253
	16XW26D082	1/6	161	860	4.9	1713	1621	1524	1472	1414	1245				
	16XW26D10	1/6	177	1075	7.5	1747	1662	1572	1524	1471	1330				
	16XW26D102	1/6	200	1075	7.4	1783	1706	1624	1579	1527	1396	1211			
	16XW26D132	1/3	340	1300	10.8	2266	2197	2125	2087	2046	1954	1841	1698		
	16XW26D152	1/3	392	1550	14.3	2451	2398	2343	2315	2287	2226	2158	2081	1946	
	16XW28D082	1/6	175	860	5.1	1849	1738	1624	1564	1497	1297				
	16XW28D102	1/6	210	1075	7.6	1895	1816	1730	1682	1626	1485	1262			
	16XW28D132	1/2	416	1300	10.1	2598	2530	2460	2424	2386	2303	2207	2097	1903	
	16XW28D152	1/2	490	1550	13.5	2732	2679	2624	2597	2568	2510	2445	2374	2247	1940
	16XW36D072	1/3	228	750	4.1	2236	2134	2018	1946	1858	1634				
18	16XW36D102	1/3	293	1075	7.7	2368	2273	2173	2118	2059	1923	1730			
	16XW36D132	3/4	556	1300	12.9	3168	3101	3032	2997	2960	2879	2784	2665	2433	
	16XW36D152	3/4	682	1550	15.9	3428	3365	3300	3267	3233	3162	3083	2991	2830	2534
	18XW24D082	1/6	165	860	5.8	2212	2099	1964	1873	1772					
	18XW24D102	1/6	212	1075	8.3	2335	2240	2144	2096	2046	1935	1739			
	18XW24D132	1/2	482	1300	12.6	3047	2966	2883	2840	2794	2694	2575	2434	2132	
	18XW24D152	1/2	553	1550	15.1	3275	3218	3161	3132	3102	3040	2974	2901	2773	2451
	18XW29D082	1/3	226	860	5.6	2712	2581	2439	2359	2271	2072				
	18XW29D102	1/3	282	1075	9.1	2862	2761	2657	2604	2548	2428				
	18XW29D132	3/4	565	1300	11.1	3687	3596	3504	3456	3408	3308	3200	3081	2869	
20	18XW29D152	3/4	704	1550	14.6	3887	3820	3753	3718	3684	3612	3536	3455	3318	3034
	18XW34D082	1/3	266	860	6.3	2853	2683	2510	2420	2319	2016				
	18XW34D102	1/3	342	1075	9.4	3145	3033	2917	2856	2793	2654	2499	2273		
	18XW34D132	3/4	663	1300	13.2	3879	3771	3660	3604	3546	3426	3291	3117	2735	
	18XW34D152	3/4	823	1550	16.7	4288	4219	4150	4114	4077	3999	3912	3810	3615	3297
	20XW24D072	1/3	236	750	4.9	2851	2716	2571	2490	2395	2110				
	20XW24D10	1/3	320	1075	9.5	2961	2844	2724	2660	2594	2448	2263	2059		
	20XW24D102	1/3	307	1075	9.2	3049	2946	2838	2781	2719	2577	2386	2126		
	20XW24D132	3/4	563	1300	13.0	3664	3569	3472	3423	3373	3270	3158	3029	2745	
	20XW24D152	3/4	746	1550	16.3	3864	3797	3728	3693	3657	3582	3498	3401	3225	2912
	20XW28D072	1/3	269	750	5.4	3116	2933	2746	2644	2514					
	20XW28D10	1/3	359	1075	9.9	3357	3242	3122	3058	2991	2836	2638			
	20XW28D102	1/3	347	1075	10.0	3419	3311	3199	3141	3078	2937	2730			
	20XW28D132	3/4	633	1300	13.6	3953	3837	3719	3659	3599	3475	3334	3130		
	20XW28D152	3/4	840	1550	18.0	4378	4297	4215	4175	4133	4050	3965	3877	3733	3360
24	20XW32D072	3/4	394	750	6.0	3719	3576	3428	3350	3268	3079	2797			
	20XW32D10	1/2	448	1075	11.0	3857	3755	3647	3590	3528	3379	3170	2891		
	20XW32D102	3/4	623	1075	11.3	3975	3838	3701	3633	3565	3427	3272	3020		
	20XW36D072	3/4	441	750	6.5	3961	3800	3634	3547	3454	3236	2837			
	20XW36D10	1/2	517	1075	11.9	4106	3988	3866	3802	3734	3584	3390	3033		
	20XW36D102	3/4	675	1075	11.9	4187	4065	3941	3876	3810	3669	3500	3214		
	24XW28D072	3/4	592	750	7.2	5083	4785	4420	4173	3908	3358				
	24XW28D102	3/4	908	1075	12.7	6054	5882	5704	5611	5512	5292	5030	4734	4287	
	24XW32D072	3/4	627	750	8.1	5013	4616	4075	3617	3128					
	24XW32D10	3/4	1015	1075	15.8	6675	6496	6309	6209	6101	5837	5445	4925	4379	
	24XW32D102	3/4	1055	1075	14.6	6696	6531	6361	6270	6173	5948	5635	5202	4615	

Performance shown is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels.

Description: Fan shall be a wall mounted, belt driven steel propeller exhaust fan.

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 motor, bearings and drives shall be mounted on a 14 gauge steel power assembly. The power assembly shall be bolted to a minimum 14 gauge wall panel with continuously welded corners and an integral venturi. 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.

Propeller: Propeller shall be a high-efficiency fabricated steel design with blades securely fastened to a minimum 7 gauge hub. The hub shall be keyed and locked to the fan shaft utilizing two setscrews. Propeller 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 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, static conducting. Drives shall be precision machined cast iron type, keyed and securely attached to the wheel and motor shafts. Drives shall be sized for 150% of the installed motor horsepower. The variable pitch motor drive must be factory set to the specified fan RPM.

Product: Fan shall be the XLW / XMW as manufactured by LOREN COOK COMPANY of Springfield, Missouri.

Also available in a supply models: XLW-S / XMW-S.

Dimensions

SIZE	A	B	C	D	E	WALL OPENING *	SHIPPING WEIGHT
20	24-3/16	14-5/16	6-5/8	23-3/8	2	25-7/16	121
24	30-3/16	14-5/16	6-5/8	27-3/8	3	30-7/16	128
30	36-3/16	14-5/16	6-3/4	33-3/8	3	36-7/16	152
36	42-3/16	14-5/16	6-3/4	39-3/8	3	42-7/16	184
42	48-3/16	18-1/16	8-1/16	46-3/8	3	48-7/16	245
48	54-3/16	18-1/16	8-1/16	52-3/8	3	54-7/16	282
54	60-3/16	18-1/16	9	58-3/8	3	60-7/16	337
60	66-3/16	18-1/16	9	64-3/8	3	66-7/16	375

All dimensions in inches. Weight in pounds, less motor. *See accessories for wall opening.

Wall Fan Low and Medium Pressure Steel Propeller Belt Drive

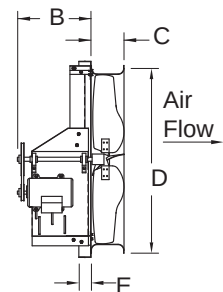
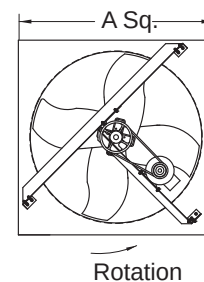


Loren Cook Company certifies that the XLW and XMW shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

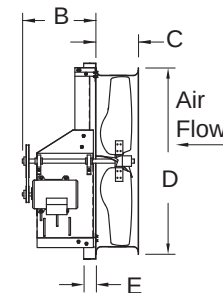
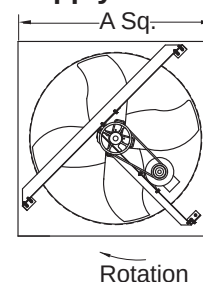


Models XLW, XMW, XLW-S and XMW-S are furnished standard with UL 705 and cUL 705 listing (Power Ventilator) when furnished with factory supplied motor.

Exhaust



Supply



Wall Fan Heavy Duty Low and Medium Pressure Steel Propeller Belt Drive

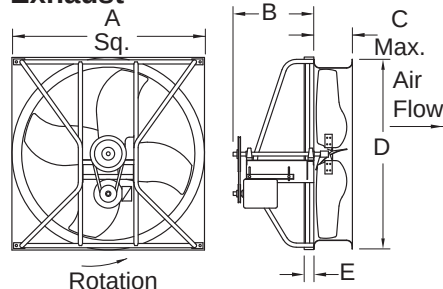


LOREN COOK COMPANY certifies that the XLWH / XMWH shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

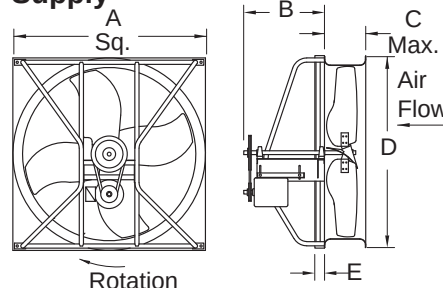


Models XLWH / XMWH are furnished standard with UL 705 and CUL 705 listing (Power Ventilator) when furnished with factory supplied motor.

Exhaust



Supply



Description: Fan shall be a wall mounted, belt driven, steel propeller exhaust fan.

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 motor, bearings and drives shall be mounted on a tubular steel power assembly. The power assembly shall be bolted to a minimum 14 gauge wall panel with continuously welded corners and an integral venturi. 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 1.5 to 2.5 mil thick baked powder finish. Paint must exceed 1,000 hour salt spray under ASTM B117 test method.

Propeller: Propeller shall be a high-efficiency fabricated steel design with blades securely fastened to a minimum 7 gauge hub. The hub shall be keyed and locked to the fan shaft utilizing two setscrews. Propeller 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 individually tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball type in a cast iron pillowblock housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

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

Product: Fan shall be type XLWH / XMWH as manufactured by LOREN COOK COMPANY of Springfield, Missouri.

Also available in a supply models: XLWH-S / XMWH-S.

Dimensions

SIZE	A	B	C	D	E	WALL OPENING*	SHIPPING WEIGHT
20	24-3/16	19-1/16	6-5/8	23-3/8	2	24-7/16	136
24	30-3/16	19-1/16	6-5/8	27-3/8	3	30-7/16	146
30	36-3/16	19-1/16	6-3/4	33-3/8	3	36-7/16	171
36	42-3/16	19-1/16	7-1/4	39-3/8	3	42-7/16	208
42	48-3/16	20-11/16	8-1/16	46-3/8	3	48-7/16	272
48	54-3/16	26-5/16	8-1/16	52-3/8	3	54-7/16	344
54	60-3/16	26-5/16	9	58-3/8	3	60-7/16	419
60	66-3/16	26-5/16	9	64-3/8	3	66-7/16	462

All dimensions in inches. Weight in pounds, less motor. *See accessories for wall opening. Intake air velocities should be limited to 500 FPM to avoid ingress of airborne water.

Fan Size	Catalog Number	HP	Max. BHP	Fan RPM	FA Sones	CFM at Static Pressure									
						0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.750	1.000	
20	20XLW / 20XLWH	1/4	0.17	748	11.2	3549	2915	2615							
			0.20	794	12.7	3768	3196	2966							
			0.25	841	14.3	3991	3462	3289	1042						
		1/3	0.28	885	15.9	4199	3701	3558	1734						
			0.32	930	17.5	4413	3940	3814	2468						
		1/2	0.40	998	19.8	4736	4294	4183	3212						
			0.49	1067	22	5063	4648	4547	3769	1841					
		3/4	0.61	1147	25	5443	5054	4962	4368	3134					
			0.75	1228	28	5827	5462	5375	4891	3983	2064				
	20XMW / 20XMWH	1/4	0.17	887	13.2	3355	2912	2795	1770						
			0.21	942	14.7	3563	3147	3039	2300						
			0.24	997	16.2	3771	3379	3279	2664	1355					
		1/3	0.29	1049	17.7	3967	3596	3501	2958	1743					
			0.33	1102	19.3	4168	3815	3725	3232	2353					
		1/2	0.41	1184	22	4478	4150	4067	3629	3030	1790				
			0.50	1265	25	4784	4478	4400	4000	3515	2631	1609			
		3/4	0.63	1361	28	5147	4863	4791	4425	4015	3457	2313			
			0.77	1456	32	5507	5241	5174	4834	4472	4032	3366	2238		
24	24XLW / 24XLWH	1/4	0.17	599	9.7	4703	3771	3340							
			0.20	636	10.8	4993	4157	3841							
			0.23	673	12.0	5284	4524	4251							
		1/3	0.28	709	13.3	5566	4867	4627	1899						
			0.33	744	14.6	5841	5190	4976	2920						
		1/2	0.41	799	16.8	6273	5682	5500	3779						
			0.49	854	18.9	6705	6161	6003	4842	1778					
		3/4	0.62	918	21	7207	6707	6569	5643	3779					
			0.77	983	24	7718	7255	7130	6341	4687	1968				
		1	0.87	1033	26	8110	7672	7555	6848	5694	3345				
	1.03	1084	28	8511	8095	7985	7345	6444	4752	1869					
	24XMW / 24XMWH	1/4	0.17	753	13.4	4233	3550	3365	1969						
			0.20	799	14.9	4491	3852	3681	2495						
			0.24	846	16.5	4755	4154	3996	3062	1610					
		1/3	0.29	890	18.0	5003	4433	4285	3450	2067					
			0.33	935	19.6	5256	4715	4575	3808	2543					
		1/2	0.41	1005	22	5649	5147	5019	4331	3415	2137				
			0.50	1074	24	6037	5568	5449	4822	4091	2878	1909			
		3/4	0.62	1154	27	6487	6051	5941	5368	4732	3860	2724	1866		
			0.76	1235	30	6942	6536	6433	5905	5335	4679	3585	2661		
		1	0.90	1299	33	7302	6916	6818	6321	5791	5204	4427	3356		
			1.01	1363	36	7662	7294	7201	6730	6234	5695	5076	4047	2457	

Performance shown is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. Sones shown apply to the highest cataloged CFM at each fan RPM. Heavy duty power assembly (XLWH/XMWH) required for performance in shaded area.

XLW / XLWH / XMW / XMWH Performance Data

Fan Size	Catalog Number	HP	Max. BHP	Fan RPM	FA Sones	CFM at Static Pressure									
						0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.750	1.000	
30	30XLW / 30XLWH	1/4	0.16	388	7.0	6273	3712	2190							
			0.20	412	7.7	6661	4452	3441							
			0.23	436	8.5	7049	5162	4217							
		1/3	0.26	459	9.3	7421	5731	4925							
			0.30	482	10.1	7793	6242	5622							
		1/2	0.41	518	11.5	8375	6987	6518	2290						
			0.48	553	13.1	8941	7677	7277	3235						
		3/4	0.59	595	15.1	9620	8472	8128	5293						
			0.76	636	17.0	10283	9227	8922	6554	2852					
		1	0.84	668	18.5	10800	9806	9524	7553	3675					
			0.98	701	20	11333	10393	10133	8466	5438					
		1-1/2	1.23	753	23	12174	11307	11073	9672	7239	3779				
			1.56	805	25	13015	12209	11996	10764	8847	6048	3062			
		2	1.74	846	28	13678	12914	12714	11584	10042	7633	4328			
			2.08	887	30	14341	13614	13426	12380	11056	8888	5741	3605		
		3	2.44	953	34	15408	14734	14560	13623	12504	10931	8759	5440		
			3.16	1018	38	16459	15829	15668	14815	13830	12620	10750	8747		
													3859		
	30XMW / 30XMWH	1/4	0.15	480	7.5	5732	4181	3673							
			0.17	506	8.2	6042	4597	4158							
			0.19	531	8.9	6341	4980	4582							
		1/3	0.28	559	9.8	6675	5394	5034	2373						
			0.31	588	10.7	7021	5809	5482	2812						
		1/2	0.36	631	12.1	7535	6408	6118	3746						
			0.49	674	13.6	8048	6993	6728	5094	2729					
		3/4	0.58	725	15.5	8657	7675	7431	6043	3518					
			0.76	776	17.4	9266	8348	8120	6888	4721	3110				
		1	0.84	816	18.8	9744	8870	8653	7516	6030	3744				
			1.03	856	20	10222	9388	9181	8120	6836	4370	3259			
		1-1/2	1.20	919	23	10974	10197	10003	9033	7924	6338	4285			
1.49			982	25	11726	10999	10817	9915	8936	7774	5410	4324			
2		1.67	1032	27	12323	11631	11458	10601	9700	8660	7227	5081			
		2.08	1082	29	12920	12260	12095	11277	10438	9491	8388	6108			
3		2.27	1128	32	13470	12836	12678	11892	11098	10226	9236	7839			
		2.49	1175	34	14031	13422	13270	12515	11759	10950	10040	8981			
36		36XLW / 36XLWH	1/4	0.17	304	5.7	8276	3270							
	0.21			323	6.3	8793	5169	2520							
	0.24			342	7.0	9311	6045	3761							
	1/3		0.28	360	7.7	9801	6891	5722							
			0.32	379	8.4	10318	7679	6602							
	1/2		0.40	407	9.5	11080	8698	7904							
			0.49	434	10.7	11815	9636	8971							
	3/4		0.61	467	12.1	12714	10783	10142	4393						
			0.76	500	13.7	13612	11917	11284	7422						
	1		0.86	526	15.0	14320	12778	12191	8888						
			1.03	552	16.5	15028	13610	13085	10090	3871					
	1-1/2		1.23	592	18.6	16117	14845	14412	11862	6497					
			1.56	633	21	17233	16073	15710	13380	10375	4223				
	2		1.75	665	23	18104	17014	16693	14501	11833	6517				
			2.02	698	25	19003	17975	17681	15644	13383	8273				
	3		2.49	749	28	20391	19443	19183	17418	15438	12799	7603			
			3.10	800	31	21779	20899	20664	19157	17258	15180	12511	6902		
	5		3.62	848	35	23086	22260	22041	20728	18922	17192	14788	9741		
		4.4	895	39	24366	23585	23382	22211	20555	18916	16999	14663			
												5961			
	36XMW / 36XMWH	1/4	0.16	350	7.4	7778	4625	2977							
			0.20	374	8.4	8311	5490	4125							
			0.22	397	9.5	8822	6345	5377							
		1/3	0.25	418	10.7	9289	7041	6133							
			0.29	439	11.9	9755	7669	6919							
		1/2	0.40	471	13.9	10466	8556	7986	3523						
			0.48	504	15.7	11200	9419	8949	4492						
		3/4	0.59	542	17.9	12044	10375	9974	6859						
			0.75	580	20	12888	11312	10949	8262	4403					
		1	0.86	610	22	13555	12043	11700	9384	5270					
1.02			640	24	14222	12768	12440	10457	6402	4210					
1-1/2		1.24	688	28	15288	13920	13609	11950	9326	5601					
		1.53	735	32	16333	15040	14743	13268	11037	7186	5294				
2		1.81	773	35	17177	15942	15653	14275	12434	9973	6372	4783			
		2.04	810	38	17999	16815	16536	15225	13651	11320	7554	5938			
3		2.48	870	44	19333	18224	17960	16728	15418	13545	11372	7685			
		3.09	930	51	20666	19625	19373	18202	17045	15596	13537	11458			
5		3.17	939	52	20866	19834	19585	18421	17282	15879	13876	11889			
	3.26	948	53	21066	20044	19796	18640	17516	16155	14215	12264				

Performance shown is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. Sones shown apply to the highest cataloged CFM at each fan RPM. Heavy duty power assembly (XLWH/XMWH) required for performance in shaded area.

Performance Data XLW / XLWH / XMW / XMWH

Fan Size	Catalog Number	HP	Max. BHP	Fan RPM	FA Sones	CFM at Static Pressure										
						0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.375	1.000		
42	42XLW / 42XLWH	1/3	0.25	260	8.7	11511	4688									
			0.29	272	9.8	12042	6886									
			0.33	283	10.8	12529	7786	4618								
		1/2	0.41	304	12.7	13459	9795	7690								
			0.5	325	14.1	14388	11172	9618								
		3/4	0.62	349	15.3	15451	12553	11586								
			0.76	374	16.7	16558	13903	13119								
		1	0.89	394	17.8	17443	14946	14244	5378							
			1.03	413	19	18284	15917	15272	7574							
		1-1/2	1.27	443	21	19612	17420	16839	11922							
			1.56	474	23	20985	18946	18414	14976							
		2	1.81	498	25	22047	20112	19610	16673	8642						
			2.08	522	28	23110	21268	20794	18147	12938						
		3	2.57	560	33	24792	23079	22641	20298	16328	8557					
			3.14	599	38	26519	24921	24514	22385	19697	14577					
		5	4.12	655	45	28998	27538	27170	25267	23136	19777	12152				
			5.29	712	50	31521	30181	29842	28116	26273	24076	19891	12835			
		7-1/2	6.52	764	54	33824	32575	32261	30664	28995	27151	24784	20375			
			7.96	816	59	36126	34957	34664	33179	31643	30008	28141	25522	14331		
		42XMW / 42XMWH	1/3	0.18	274	10.8	9535	5791								
	0.25			304	12.6	10579	7670	6228								
	0.33			334	14.5	11623	9364	8239								
	1/2		0.41	358	15.8	12458	10443	9652								
			0.5	383	17.2	13328	11472	10920								
	3/4		0.62	412	19	14338	12620	12166	6629							
			0.77	441	21	15347	13744	13338	9794							
	1		0.89	464	22	16147	14623	14242	11182							
			1.03	487	24	16948	15496	15133	12499	6626						
	1-1/2		1.28	523	26	18200	16848	16511	14557	10343						
			1.56	559	30	19453	18188	17872	16210	13167	7385					
	2		1.8	587	33	20428	19223	18922	17385	14755	9807					
			2.09	616	37	21437	20289	20002	18557	16482	13261	7535				
	3		2.58	661	42	23003	21933	21666	20328	18807	16084	11474				
			3.14	706	46	24569	23567	23317	22065	20758	18717	16063	10793			
	5		4.05	768	52	26726	25806	25576	24425	23266	21931	19642	17243			
			5.08	829	59	28849	27996	27783	26717	25650	24539	23117	20801	13750		
	48		48XLW / 48XLWH	1/2	0.32	238	8.1	14886	6610							
					0.4	256	9.5	16012	10599	5982						
					0.5	274	11.1	17138	12729	10009						
		3/4		0.63	295	13	18451	14527	13075							
				0.77	316	14.9	19765	16210	15091							
		1		0.89	332	16.1	20765	17460	16420							
1.03				348	17.1	21766	18680	17704								
1-1/2		1.27		374	18.8	23392	20604	19737	10120							
		1.55		400	20	25018	22464	21703	16007							
2		1.79		420	22	26269	23862	23171	18813							
		2.08		440	23	27520	25242	24605	20738							
3		2.56		472	26	29522	27419	26847	23423	16878						
		3.13		505	29	31586	29632	29113	26053	21901						
5		4.13		553	35	34588	32817	32354	29744	26617	20789					
		5.29		601	41	37590	35966	35549	33274	30524	27338	17716				
7-1/2		5.95		625	45	39091	37532	37133	34993	32418	29570	24218	14219			
		6.7		650	49	40655	39158	38775	36748	34356	31694	28005	17824			
48XMW / 48XMWH		1/2	0.24	250	6.9	13203	6474									
			0.36	284	9.1	14998	10741	8006								
			0.5	318	11.9	16794	13158	12047								
		3/4	0.62	342	13.2	18061	14702	13802								
			0.75	366	14.4	19328	16194	15393								
		1	0.88	385	15.4	20332	17351	16603	8481							
			1.02	404	16.4	21335	18492	17785	11709							
		1-1/2	1.26	434	18	22920	20268	19614	15645							
			1.55	464	19.7	24504	22021	21408	18133	9152						
		2	1.81	488	22	25771	23408	22824	19817	13208						
			2.05	511	24	26986	24728	24169	21340	16752						
		3	2.57	549	27	28993	26889	26367	23764	20723	12746					
			3.1	586	31	30947	28975	28485	26053	23468	18778					
		5	4.1	642	38	33904	32103	31655	29431	27180	24573	19027				
			5.27	697	42	36809	35150	34736	32680	30636	28485	25748	19833			
7-1/2		5.57	711	43	37548	35921	35516	33500	31497	29418	26933	22025				
		5.92	726	44	38340	36747	36350	34374	32414	30396	28098	24144				

Performance shown is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. Sones shown apply to the highest cataloged CFM at each fan RPM. Heavy duty power assembly (XLWH/XMWH) required for performance in shaded area.

Fan Size	Catalog Number	HP	Max. BHP	Fan RPM	FA Sones	CFM at Static Pressure									
						0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.750	1.000	
54	54XLW / 54XLWH	3/4	0.52	216	8.0	20194	13930	10752							
			0.71	240	9.5	22438	17315	15330							
		1	0.83	252	10.2	23559	18802	17163							
			1.02	264	11.1	24681	20219	18800	7187						
		1-1/2	1.20	284	12.6	26551	22482	21292	10241						
			1.41	304	14.3	28421	24664	23619	14879						
		2	1.65	320	15.7	29917	26371	25409	18202						
			2.05	335	17.0	31319	27949	27048	20942	10419					
		3	2.39	359	19.1	33563	30434	29613	24647	15074					
			3.10	384	21	35900	32985	32231	27954	20719	11631				
		5	4.08	420	25	39266	36610	35931	32268	27248	18735	11726			
			5.27	457	28	42725	40290	39672	36424	32529	26593	17895	12411		
	54XMW / 54XMWH	3/4	0.50	234	8.8	20378	14307	11728							
			0.70	262	10.6	22817	17805	16056							
		1	0.82	276	11.5	24036	19260	17985							
			0.98	289	12.4	25168	20545	19478	9130						
		1-1/2	1.18	311	14.1	27084	22651	21774	12205						
			1.43	332	15.7	28913	24623	23828	16710						
		2	1.76	349	17.1	30394	26203	25447	18817	10489					
			1.94	366	18.5	31874	27774	27045	21920	12618					
		3	2.42	393	21	34225	30267	29556	25756	18843					
			2.94	420	23	36577	32765	32052	28762	22052	14263				
		5	3.94	460	27	40060	36452	35747	32779	28769	22519	14822			
			5.10	500	30	43544	40134	39428	36595	33675	27614	23297	15742		
60	60XLW / 60XLWH	1-1/2	208	10.9	0.87	27823	22101	19473							
			228	11.7	1.15	30499	25468	23801							
			248	12.6	1.50	33174	28726	27352	10305						
		2	261	13.2	1.8	34913	30826	29459	20886						
			274	13.8	2.03	36652	32847	31582	23848						
		3	294	14.8	2.55	39327	35833	34809	27511	10544					
			314	15.9	3.04	42003	38730	37886	31591	15298					
		5	344	18.1	4.05	46016	43001	42286	37575	30803	13109				
			373	20	5.24	49895	47082	46433	42291	36098	30591				
		7-1/2	401	23	6.33	53640	50997	50389	46866	42464	36259	18481			
			428	24	7.78	57252	54757	54177	51136	47122	41163	36654	17508		
		60XMW / 60XMWH	1-1/2	225	11.8	0.58	24365	18108	16377						
	266			15.2	1.01	28805	23299	22149	13779						
	307			19.1	1.52	33245	28177	27207	21351	9994					
	2		323	21	1.80	34978	30055	29115	23911	15943					
			339	22	2.05	36710	31922	31006	26298	19803					
	3		364	25	2.53	39418	34827	33938	29734	24150	13023				
			389	28	3.12	42125	37739	36855	32951	28253	22401				
	5		425	32	4.11	46023	41908	41042	37374	33595	28671	22938			
			462	36	5.29	50030	46167	45328	41793	38526	34615	29845	24236		
	7-1/2		496	40	6.27	53712	50077	49259	45797	42790	39521	35487	30975		
			529	44	7.93	57285	53842	53055	49652	46795	43911	40561	36527	26607	

Performance shown is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. Sones shown apply to the highest cataloged CFM at each fan RPM. Heavy duty power assembly (XLWH/XMWH) required for performance in shaded area.

Description: Fan shall be a wall mounted, belt driven, steel propeller exhaust fan with integral housing, shutter and inlet guard.

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).

Construction: The fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The motor, bearings and drives shall be mounted on a minimum 14 gauge steel power assembly. The power assembly shall be bolted to a minimum 14 gauge wall panel with continuously welded corners and an integral venturi. Fan shall be enclosed in minimum 18 gauge galvanized steel wall housing with factory installed shutter and inlet guard. 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 1.5 to 2.5 mil thick baked powder finish. Paint must exceed 1,000 hour salt spray under ASTM B117 test method.

Propeller: Propeller shall be a high-efficiency fabricated steel design with blades securely fastened to a minimum 7 gauge hub. The hub shall be keyed and locked to the fan shaft utilizing two setscrews. Propeller shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Exhaust Shutter: Shutter shall be heavy duty galvanized steel construction. Material thickness shall be minimum 20 gauge for frame and 28 gauge for blades. Blades shall have mechanically fastened vinyl edge seals.

Supply Shutter: Shutter shall be heavy duty galvanized steel construction, utilizing center pivot blades and motorized actuator. Material thickness shall be minimum 16 gauge for frame and 20 gauge for blades.

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

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 type XLP / XLPH / XMP / XMPH as manufactured by LOREN COOK COMPANY of Springfield, Missouri.

Also available in a supply models: XLP-S / XLPH-S / XMP-S / XMPH-S.

Dimensions

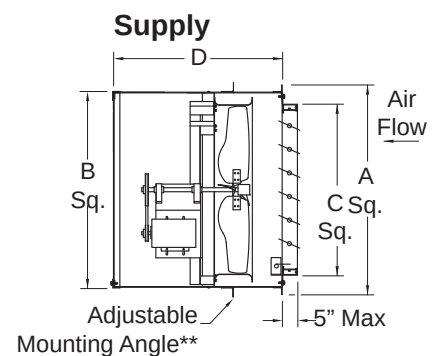
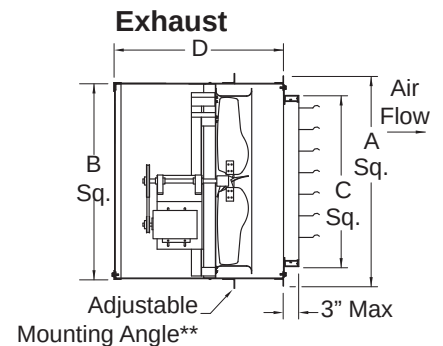
SIZE	A	B*	C	D*	WALL OPENING	WALL HOUSING GAUGE	SHIPPING WEIGHT			
							XLP / XMP	XLP-S / XMP-S	XLPH / XMPH	XLPH-S / XMPH-S
20	27-1/2	25	22	37-3/8	25-1/4	18 GA.	180	183	195	198
24	33-1/2	31	27-1/2	37-3/8	31-1/4	18 GA.	222	226	241	244
30	39-1/2	37	33-1/2	38	37-1/4	18 GA.	276	280	295	299
36	45-1/2	43	39-1/2	39-1/2	43-1/4	18 GA.	337	348	362	367
42	51-1/2	49-1/16	45-1/2	41	49-1/4	16 GA.	455	460	482	487
48	57-1/2	55-1/16	51-1/2	51	55-1/4	16 GA.	533	540	596	603
54	63-1/2	61-1/8	57-1/2	48	61-1/2	14 GA.	638	646	721	728
60	69-1/2	67-1/8	63-1/2	48	67-1/2	14 GA.	705	716	795	803

All dimensions in inches. Weight in pounds, less motor. *B and D dimension is to outside of fasteners on wall housing. **Shipped loose for field mounting. Intake air velocities should be limited to 500 FPM to avoid ingress of airborne water.

Packaged Wall Fan Standard or Heavy Duty Low or Medium Pressure Steel Propeller Belt Drive



Models XLP / XLPH / XMP / XMPH are furnished standard with UL 705 and CUL 705 listing (Power Ventilator) when furnished with factory supplied motor.



Fan Size	Catalog Number	HP	Max. BHP	Fan RPM	FA Sones	CFM at Static Pressure						
						0.000	0.100	0.125	0.250	0.375	0.500	0.625
20	20XLP / 20XLPH	1/4	0.12	662	9.1	2639	1516	1084				
			0.17	751	11.8	2994	2095	1777				
			0.24	840	14.9	3349	2598	2344				
		1/3	0.29	884	16.4	3525	2823	2596	1093			
			0.32	929	18.0	3704	3041	2850	1476			
		1/2	0.40	998	20	3979	3363	3203	2020			
			0.49	1067	23	4254	3675	3533	2549			
		3/4	0.61	1147	26	4573	4031	3902	3078	1881		
			0.74	1227	29	4892	4382	4261	3537	2510		
	20XMP / 20XMPH	1/4	0.12	776	10.7	2525	2033	1838				
			0.17	886	13.8	2883	2474	2351	1308			
			0.25	997	17.0	3244	2883	2790	2006			
		1/3	0.29	1049	18.6	3413	3070	2984	2331	1414		
			0.33	1102	20	3586	3259	3178	2624	1694		
		1/2	0.42	1184	23	3853	3547	3473	3024	2204	1498	
			0.50	1265	26	4116	3829	3760	3375	2737	1914	
		3/4	0.63	1361	29	4429	4160	4096	3758	3272	2503	1860
			0.77	1456	33	4738	4486	4425	4118	3730	3131	2377
24	24XLP / 24XLPH	1/4	0.13	544	7.7	3756	2286	1605				
			0.18	608	9.3	4198	2868	2554				
			0.24	671	11.2	4633	3467	3131				
		1/3	0.28	707	12.5	4882	3867	3447	1228			
			0.33	742	13.7	5124	4195	3787	1833			
		1/2	0.40	797	15.7	5503	4655	4389	2618			
			0.50	852	17.8	5883	5089	4883	3525	1315		
		3/4	0.62	916	20	6325	5581	5403	4142	2390		
			0.76	980	22	6767	6064	5902	4699	3257		
	24XMP / 24XMPH	1	0.88	1030	24	7112	6438	6284	5156	4139	2191	
			1.02	1081	26	7464	6817	6669	5710	4704	3119	
		1/4	0.10	632	10.4	3157	2353	2043				
			0.16	739	13.9	3691	3025	2845	1557			
			0.24	846	17.6	4226	3645	3499	2448	1436		
		1/3	0.28	891	19.3	4451	3899	3762	2863	1791		
			0.33	936	21	4675	4150	4020	3261	2172		
		1/2	0.41	1005	23	5020	4529	4408	3760	2741	1881	
			0.50	1074	26	5365	4905	4791	4207	3342	2449	1691
		3/4	0.63	1155	29	5769	5341	5235	4702	4061	3121	2351
			0.77	1236	32	6174	5773	5674	5180	4640	3820	3040
		1	0.89	1300	35	6494	6112	6018	5549	5055	4414	3560
			1.01	1364	38	6813	6450	6360	5913	5453	4917	4104

Heavy duty power assembly (XLPH/XMPH) required for performance in shaded area. Performance shown is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. Performance ratings include the effects of shutter, housing and wire guard in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. Model XLP/XMP is not licensed to bear the AMCA Seal.

Fan Size	Catalog Number	HP	Max. BHP	Fan RPM	FA Sones	CFM at Static Pressure									
						0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.75	1	
30	30XLP / 30XLPH	1/4	0.17	388	7.0	5479	2699	1868							
			0.20	412	7.8	5818	3381	2351							
			0.23	436	8.6	6157	3906	3096							
		1/3	0.27	459	9.4	6482	4366	3740							
			0.31	482	10.2	6807	4806	4253							
			0.38	518	11.6	7315	5477	4975							
		1/2	0.49	553	13.1	7809	6113	5638	2726						
			0.59	595	14.9	8403	6853	6414	3637						
			0.73	636	16.8	8982	7549	7151	4961						
		3/4	0.87	668	18.2	9433	8077	7709	5722	3152					
			0.98	701	19.7	9900	8612	8271	6413	3806					
			1.26	753	22	10634	9438	9131	7427	5286	3224				
		1-1/2	1.48	805	25	11368	10249	9968	8400	6713	4306				
			1.78	846	27	11947	10882	10616	9154	7600	5276	3707			
			2.00	887	29	12526	11509	11257	9892	8419	6674	4558			
		2	2.51	953	33	13458	12510	12276	11045	9676	8273	6132	4627		
			3.00	1018	36	14376	13487	13268	12142	10880	9599	8162	5967		
	30XMP / 30XMPH	1/4	0.16	480	7.6	5027	3531	2781							
			0.18	504	8.3	5278	3900	3340							
			0.20	529	9.0	5540	4251	3820							
		1/3	0.28	557	9.9	5833	4624	4265	2103						
			0.32	585	10.8	6127	4983	4665	2520						
			0.38	629	12.1	6588	5529	5251	3095						
		1/2	0.50	672	13.5	7038	6049	5796	3787	2397					
			0.59	722	15.2	7562	6640	6410	4915	3160					
			0.77	773	17.1	8096	7234	7021	5807	3826	2713				
		3/4	0.86	813	18.5	8515	7694	7492	6397	4444	3364				
			0.97	853	20	8933	8151	7958	6947	5329	3900				
			1.23	917	22	9604	8874	8694	7778	6629	4768	3876			
		1-1/2	1.53	980	25	10264	9580	9411	8564	7612	6033	4701	3887		
			1.72	1030	27	10787	10137	9975	9173	8309	7127	5406	4586		
			1.92	1080	29	11311	10690	10536	9772	8973	8006	6368	5234		
		2	2.33	1128	31	11814	11219	11071	10340	9589	8736	7490	5917	4433	
			2.57	1175	33	12306	11735	11593	10890	10177	9399	8402	6794	5106	
36	36XLP / 36XLPH	1/4	0.26	350	7.6	8019	4495	3369							
			0.25	346	7.4	7927	4277	3182							
			0.24	342	7.3	7835	4102	2976							
		1/3	0.28	360	7.9	8248	5324	3767							
			0.33	378	8.6	8660	6044	4415							
			0.41	406	9.8	9301	6920	6137							
		1/2	0.49	434	11.1	9943	7764	7125							
			0.62	466	12.8	10676	8720	8100	3308						
			0.74	499	14.3	11432	9666	9095	4940						
		3/4	0.86	525	15.5	12028	10383	9865	5895						
			1.00	551	16.7	12623	11078	10613	6960						
			1.25	592	18.6	13563	12143	11744	9365	5135					
		1-1/2	1.51	633	21	14502	13182	12830	10670	6865					
			1.80	665	22	15235	13981	13656	11636	8051	4955				
			2.06	697	24	15968	14773	14468	12602	10303	6606				
		2	2.57	749	27	17160	16047	15768	14142	12256	8574	5815			
			3.14	800	30	18328	17285	17027	15592	13816	11584	8239	5420		
			3.67	848	33	19428	18442	18199	16900	15264	13607	9980	7817		
	5	4.36	895	36	20504	19569	19339	18139	16667	15084	12993	9702			
	36XMP / 36XMPH	1/4	0.16	350	7.0	6740	3362	2685							
			0.20	374	8.0	7202	4478	3274							
			0.23	397	9.1	7645	5197	3949							
		1/3	0.27	418	10.1	8050	5747	5000							
			0.31	439	11.3	8454	6287	5677							
			0.40	471	13.2	9071	7122	6519	3204						
		1/2	0.49	504	15.0	9706	7957	7373	4013						
			0.60	542	17.1	10438	8860	8359	4981						
			0.75	580	19.3	11170	9715	9297	6504	4005					
		3/4	0.87	610	21	11747	10372	9998	7716	4741					
			0.99	640	23	12325	11015	10675	8545	5474					
			1.25	688	26	13250	12030	11725	9782	6853	5080				
		1-1/2	1.54	735	30	14155	13010	12729	11008	9068	6220	4804			
			1.77	773	33	14886	13795	13529	11986	10179	7225	5772			
			2.06	810	36	15599	14554	14302	12903	11144	8597	6664	5396		
2		2.51	870	41	16754	15778	15542	14306	12692	11128	8250	6881			
		3.13	930	48	17910	16993	16771	15646	14254	12731	10986	8384	6084		
		3.21	939	48	18083	17174	16954	15843	14483	12962	11357	8633	6331		
5	3.29	948	49	18257	17356	17138	16040	14712	13193	11678	8885	6563			

Heavy duty power assembly (XLPH/XMPH) required for performance in shaded area. Performance shown is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. Performance ratings include the effects of shutter, housing and wire guard in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. Model XLP/XMP is not licensed to bear the AMCA Seal.

Performance Data **XLP / XLPH / XMP / XMPH**

Fan Size	Catalog Number	HP	Max. BHP	Fan RPM	FA Sones	CFM at Static Pressure								
						0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.75	1
42	42XLP / 42XLPH	1/3	0.25	260	8.8	9469								
			0.29	272	9.9	9906	4250							
			0.33	283	11.0	10306	4884							
		1/2	0.41	304	13.0	11071	6175	4744						
			0.5	325	14.5	11836	7947	5913						
			0.62	349	15.7	12710	9119	7977						
		3/4	0.76	374	17.0	13620	10315	9423						
			0.89	394	18.1	14349	11333	10374						
			1.03	413	19.2	15041	12302	11277	4707					
		1-1/2	1.26	443	21	16133	13720	12800	7486					
			1.54	474	23	17262	15065	14351	9204					
			1.79	498	26	18136	16062	15463	11619					
		2	2.06	522	29	19010	17039	16504	12987	7854				
			2.54	560	34	20394	18560	18090	14803	10087				
			3.11	599	41	21814	20094	19669	16689	13241	8691			
		3	4.12	655	48	23854	22271	21889	19549	16672	12102	7635		
			5.23	712	53	25930	24463	24114	22204	19370	16941	12447		
			6.46	764	58	27823	26450	26122	24426	21999	19616	15870	12785	
		7-1/2	7.87	816	63	29717	28425	28114	26563	24614	22074	20053	15632	
	42XMP / 42XMPH	1/3	0.18	274	8.3	8664	3961							
			0.25	304	10.4	9613	5781	4299						
			0.33	333	12.3	10530	7384	6017						
		1/2	0.41	358	13.6	11321	8443	7546						
			0.5	383	14.9	12111	9421	8728						
			0.62	412	16.4	13028	10518	9906	5081					
		3/4	0.76	441	18.0	13945	11595	11020	6697					
			0.89	463	19.5	14641	12402	11848	8006					
			1.03	486	21	15368	13236	12703	9483					
		1-1/2	1.27	522	24	16507	14524	14024	11461	7195				
			1.55	558	28	17645	15792	15325	13025	9247				
			1.8	586	30	18530	16768	16323	14139	11021	7376			
		2	2.08	615	34	19448	17769	17346	15256	12796	8985			
			2.58	661	38	20902	19341	18949	16988	15016	11715	8574		
			3.15	706	41	22325	20864	20498	18655	16859	14539	11087	8361	
		3	4.05	768	46	24286	22944	22607	20913	19246	17540	14967	11836	
			5.1	829	51	26215	24972	24660	23094	21529	20007	18297	15603	10446
48	48XLP / 48XLPH	1/2	0.33	238	8.1	12395								
			0.41	256	9.4	13332	6499							
			0.5	274	11.0	14269	8018	5938						
		3/4	0.63	295	12.8	15363	10866	7985						
			0.77	316	14.8	16457	12855	10001						
			0.89	332	15.9	17290	13942	12456						
		1	1.03	348	16.9	18123	14958	13976						
			1.28	374	18.7	19477	16543	15770						
			1.56	400	21	20831	18087	17398	9867					
		2	1.81	420	22	21873	19258	18607	11520					
			2.08	440	24	22914	20418	19796	13358					
			2.57	472	26	24581	22253	21672	17916	9572				
		3	3.14	505	29	26299	24124	23580	20705	13346				
			4.13	553	35	28799	26813	26316	23824	18070	12658			
			5.3	601	41	31299	29472	29014	26734	24076	16883			
		5	6.55	645	47	33590	31888	31462	29335	27134	21834	16663		
			7.95	688	52	35830	34234	33835	31839	29840	27312	20327	16637	
	48XMP / 48XMPH	1/2	0.24	250	8.6	11156	4351							
			0.36	284	11.2	12673	7535	5332						
			0.5	318	14.0	14190	10274	8466						
		3/4	0.62	342	15.7	15261	11943	10457						
			0.76	366	17.3	16332	13405	12245						
			0.88	384	18.5	17135	14413	13460						
		1	1.01	403	19.9	17983	15424	14623	7678					
			1.27	433	22	19321	16961	16314	10471					
			1.54	463	24	20660	18456	17888	13115					
		2	1.78	487	27	21731	19631	19108	15049	8731				
			2.04	510	29	22757	20748	20255	16772	10963				
			2.57	548	33	24453	22573	22120	19345	14418				
		3	3.12	586	37	26148	24382	23959	21613	17611	12391			
			4.11	641	44	28603	26977	26588	24588	21701	17370	12512		
			5.27	696	50	31057	29553	29190	27388	25210	21841	17588	13096	
		5	5.62	711	52	31726	30253	29896	28136	26090	22969	18924	14550	
			5.96	726	54	32396	30951	30600	28881	26934	24062	20224	15941	

Heavy duty power assembly (XLPH/XMPH) required for performance in shaded area. Performance shown is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. Performance ratings include the effects of shutter, housing and wire guard in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. Model XLP/XMP is not licensed to bear the AMCA Seal.

XLP / XLPH / XMP / XMPH Performance Data

Fan Size	Catalog Number	HP	Max. BHP	Fan RPM	FA Sones	CFM at Static Pressure						
						0.000	0.100	0.125	0.250	0.375	0.500	0.625
54	54XLP / 54XLPH	3/4	0.53	216	8.1	17034	10305	7861				
			0.59	228	8.8	17981	11911	9538				
			0.68	239	9.6	18848	13245	11162				
		1	0.80	251	10.4	19794	14621	12817				
			0.94	264	11.4	20820	16051	14429				
		1-1/2	1.26	284	13.1	22397	18136	16723	8570			
			1.47	303	14.8	23895	20003	18780	10793			
		2	1.68	319	16.3	25157	21510	20426	12984			
			2.06	334	17.6	26340	22882	21905	15200	8948		
		3	2.50	359	19.8	28311	25114	24265	18646	11751		
			3.13	384	22	30283	27298	26534	21652	14948	10135	
		5	3.70	408	25	32176	29364	28661	24355	18459	12823	
			4.45	432	27	34068	31410	30752	26926	21843	15721	11647
			5.17	456	29	35961	33437	32817	29375	24842	19076	14319
	54XMP / 54XMPH	3/4	0.51	234	8.6	17008	11223	8525				
			0.61	248	9.5	18026	12470	11015				
			0.72	262	10.4	19043	13694	12584				
		1	0.82	276	11.4	20061	14990	13831				
			0.94	289	12.4	21006	16320	14960				
		1-1/2	1.21	311	14.1	22605	18584	17004	10164			
			1.43	332	15.8	24131	20518	19182	12173			
		2	1.70	349	17.1	25367	21981	20902	15230			
			2.03	366	18.5	26602	23400	22479	17361	10881		
		3	2.40	393	21	28565	25590	24811	19792	13580		
			3.09	420	23	30527	27737	27042	22161	16775	12234	
		5	3.55	446	25	32417	29780	29141	24668	21045	14954	
			4.36	472	28	34307	31802	31202	27387	23429	17497	13985
			4.99	499	30	36269	33886	33323	30080	25774	22460	16752
60	60XLP / 60XLPH	1-1/2	0.83	208	9.8	23462	16789	14789				
			1.15	232	11.8	26169	20381	18683	8642			
			1.51	255	13.9	28763	23527	22162	11587			
		2	1.76	268	15.1	30230	25241	23989	13173			
			2.03	281	16.3	31696	26928	25756	17936	9873		
		3	2.54	301	18.2	33952	29484	28399	22067	12845		
			3.09	322	20	36321	32132	31112	25452	15359		
		5	4.02	352	23	39704	35864	34919	30084	24083	15369	
			5.22	383	27	43201	39668	38791	34474	29347	19145	15898
		7-1/2	6.42	411	30	46359	43066	42245	38236	33797	28698	19238
			7.88	439	34	49518	46434	45664	41892	38004	33362	23095
	60XMP / 60XMPH	1-1/2	0.60	225	9.7	19797	14680	13186				
			0.99	266	12.8	23404	19322	18091	8896			
			1.54	307	16.2	27012	23603	22637	17141			
		2	1.78	323	17.6	28420	25202	24322	19262	10584		
			2.03	338	19.0	29739	26675	25858	21107	12548		
		3	2.57	363	21	31939	29092	28362	24057	19013		
			3.08	388	24	34139	31475	30806	26935	22616	14143	
		5	4.08	424	28	37306	34864	34261	30922	27049	22731	14477
			5.25	461	31	40562	38310	37756	34830	31365	27769	23161
		7-1/2	5.53	469	32	41266	39051	38507	35650	32282	28757	24611
			5.78	476	33	41882	39699	39162	36364	33079	29608	25721

Heavy duty power assembly (XLPH/XMPH) required for performance in shaded area. Performance shown is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. Performance ratings include the effects of shutter, housing and wire guard in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. Model XLP/XMP is not licensed to bear the AMCA Seal.

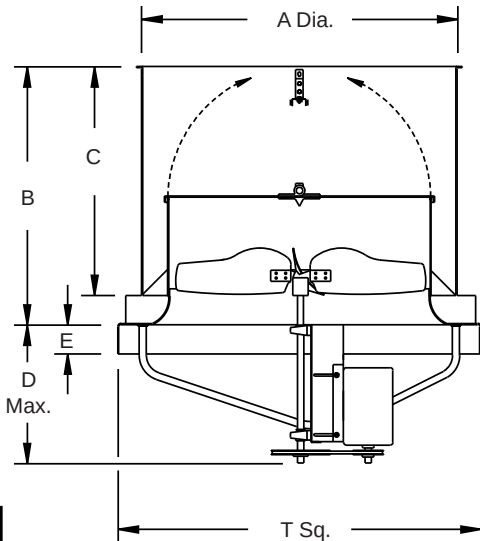
Upblast Roof Fan
Low Silhouette
X.STREAM Propeller
Belt Drive



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



Type LXUL/LXUM are furnished standard with UL 705 and cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.



Description: Fan shall be a low silhouette, belt driven upblast propeller roof fan.
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 motor, bearings and drives shall be mounted on a tubular steel power assembly. The power assembly shall be welded to a minimum 14 gauge steel base. The base shall have an integral venturi and continuously welded curb cap corners. Fan housing shall be minimum 14 gauge steel, bolted to the fan base. Fan shall have butterfly discharge dampers of aluminum or steel construction with a high volume rain gutter to prevent rain infiltration. Dampers shall be protected by a continuously welded steel windband. Windband shall be minimum 18 gauge steel with minimum one inch flanges for maximum strength and rigidity. The fan shall include integral lifting lugs capable of safely supporting the total weight of the fan with motor. Unit shall bear an engraved aluminum nameplate and 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.

Propeller - Propeller shall be a high-efficiency fabricated steel design with blades securely fastened to a minimum 7 gauge steel hub. The hub shall be keyed and locked to the fan shaft utilizing two setscrews. Propeller 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 cast pillowblock ball type selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

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

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

Dimensions

Size	A Dia.	B	C	D Max.	E	T Sq.	Steel Gauge			Roof Opening Square	Approx. Ship Wt. Lbs.
							Base	Housing	Baffle		
20	27-3/8	24-1/8	22-1/8	21	2	32	14	14	18	27-1/2	300
24	31-3/8	28	26	21	3	36	14	14	18	31-1/2	370
30	37-3/8	34	32	21	3	42	14	14	18	37-1/2	440
36	43-3/8	38	36	21	3	48	14	14	18	43-1/2	500
42	49-3/8	45	43	21	3	54	14	14	18	49-1/2	590
48	55-3/8	50	48	24	3	60	14	14	18	55-1/2	655
54	61-3/8	46	44	28	3	66	14	14	16	61-1/2	800
60	67-3/8	51	49	28	3	72	14	14	16	67-1/2	1000

All dimensions in inches. *Roof opening size for curbs supplied by Loren Cook Company only. Shipping weights are less motor.

Fan Size	Model Number	HP	Max. BHP	RPM	Tip Speed	Sones*	CFM at Static Pressure												
							0.000	0.050	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625		
20	20 LXUL	1/6	0.16	745	3998	9.3	3305												
			0.16	755	4052	9.5	3349												
		0.20	811	4352	10.8	3598													
		0.22	839	4502	11.4	3722	3367												
		0.25	868	4658	12.2	3850	3505												
		0.30	930	4991	14.0	4125	3801	3512	3367										
		0.33	960	5152	14.9	4259	3943	3661	3523	3372									
		0.42	1032	5538	16.6	4578	4282	4014	3888	3757	3442								
		0.46	1068	5731	17.4	4738	4451	4189	4067	3943	3663								
		0.51	1102	5914	18.1	4888	4611	4354	4235	4115	3857								
		0.63	1186	6365	20	5261	5002	4758	4645	4534	4309	4048							
		0.70	1228	6590	21	5447	5197	4960	4848	4741	4526	4290							
		0.77	1268	6805	22	5625	5382	5150	5041	4936	4729	4510	4241						
		20 LXUM	1/4	0.18	925	4964	12.5	3391											
				0.20	959	5146	13.3	3515	3313										
	0.22			993	5329	14.1	3640	3445											
	0.25			1025	5501	14.8	3757	3569	3354										
	0.29		1079	5790	16.0	3955	3777	3579	3462	3335									
	0.31		1106	5935	16.6	4054	3880	3690	3579	3456									
	0.37		1175	6306	18.3	4307	4144	3969	3872	3762	3529	3327							
	0.41		1217	6531	19.3	4461	4304	4137	4045	3944	3720	3514	3324						
	0.46		1259	6756	20	4615	4463	4304	4217	4123	3910	3700	3517						
	0.55		1341	7197	23	4915	4773	4625	4547	4464	4275	4070	3884	3622					
	0.60		1381	7411	24	5062	4924	4781	4706	4627	4449	4251	4062	3811					
	0.66		1421	7626	25	5209	5075	4937	4865	4789	4622	4431	4242	3993					
				0.71	1460	7835	26	5352	5221	5088	5018	4945	4787	4606	4418	4168	3696		
	24		24 LXUL	1/4	0.17	600	3848	8.9	4672	4112									
					0.21	637	4085	9.9	4960	4427									
		0.24			674	4323	10.8	5249	4739	4252	3951								
		0.29		710	4554	11.8	5529	5040	4594	4321	4035								
0.31		728		4669	12.3	5669	5190	4758	4503	4221									
0.33		745		4778	12.8	5801	5332	4912	4671	4397									
0.41		801		5137	14.5	6238	5796	5405	5202	4968	4466								
0.46		829		5317	15.4	6456	6027	5647	5456	5242	4754	4277							
0.51		856		5490	16.2	6666	6249	5879	5696	5499	5033	4581							
0.63		920		5900	18.4	7164	6774	6422	6255	6083	5687	5244	4824						
0.69		952		6106	19.5	7413	7035	6692	6530	6366	6002	5575	5169						
0.77		985		6317	21	7670	7304	6968	6811	6654	6317	5916	5511						
0.89		1035		6638	22	8060	7710	7386	7234	7086	6778	6422	6025	5464					
0.96		1060		6798	23	8254	7913	7593	7445	7299	7003	6668	6284	5734					
1.03		1086		6965	24	8457	8123	7809	7663	7521	7234	6919	6552	6004					
24 LXUM		1/6	0.14	750	4810	11.9	4032												
			0.16	793	5086	13.1	4263												
		0.20	853	5471	14.9	4586	4208												
		0.22	883	5663	15.9	4747	4381	4044											
		0.25	911	5843	16.8	4897	4542	4213	4056										
		0.29	959	6151	18.4	5155	4817	4500	4350	4203									
		0.31	983	6305	19.0	5284	4954	4643	4496	4352	4064								
		0.33	1008	6465	19.7	5419	5096	4791	4647	4505	4226								
		0.41	1082	6940	22	5817	5515	5227	5090	4956	4695	4432	4143						
		0.46	1119	7177	23	6016	5724	5443	5309	5179	4925	4673	4408						
		0.51	1157	7421	24	6220	5937	5665	5534	5407	5160	4916	4668	4221					
		0.63	1245	7985	27	6693	6430	6174	6050	5930	5696	5469	5243	4886	4089				
		0.70	1289	8267	29	6929	6675	6427	6307	6189	5962	5741	5522	5188	4472				
		0.77	1331	8537	30	7155	6909	6668	6550	6436	6214	5998	5786	5467	4833	4047			

Performance shown is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. *Sone values are for maximum cataloged CFM at specified RPM. **Shaded area denotes CFM where aluminum dampers are required.**

LXUL/LXUM Performance Data

LXUL / LXUM

Fan Size	Model Number	HP	Max. BHP	RPM	Tip Speed	Sones*	CFM at Static Pressure										
							0.000	0.050	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625
30	30 LXUL	1/4	0.17	400	3193	6.5	6051										
		1/4	0.25	455	3633	8.4	6883										
		1/3	0.29	479	3824	9.3	7246	6442									
		1/3	0.33	503	4016	10.3	7610	6847									
		1/2	0.41	540	4311	12.0	8169	7464	6694	6297							
		1/2	0.50	577	4607	13.7	8729	8072	7361	6992	6616						
		3/4	0.58	606	4838	14.9	9168	8543	7875	7525	7173	6380					
		3/4	0.67	635	5070	16.0	9606	9012	8382	8049	7714	7012					
		3/4	0.77	664	5301	17.1	10045	9477	8881	8566	8246	7595	6799				
		1	0.85	687	5485	17.9	10393	9845	9272	8971	8663	8040	7350				
		1	0.94	710	5669	18.8	10741	10211	9661	9372	9075	8475	7840				
		1	1.03	733	5852	19.7	11089	10576	10046	9768	9483	8903	8306	7590			
		1-1/2	1.19	769	6140	21	11634	11145	10643	10382	10114	9563	9006	8406			
		1-1/2	1.37	805	6427	23	12178	11712	11235	10989	10736	10214	9684	9140	8089		
		1-1/2	1.56	841	6715	24	12723	12277	11822	11589	11350	10855	10349	9839	8993		
	30 LXUM	2	1.73	870	6946	25	13162	12731	12292	12068	11839	11365	10878	10388	9611		
		2	1.90	899	7178	27	13600	13183	12760	12545	12325	11870	11401	10927	10199		
		2	2.09	927	7402	28	14024	13620	13210	13002	12790	12353	11901	11442	10746	9266	
		1/4	0.18	510	4072	8.7	6146										
		1/4	0.24	563	4495	10.7	6785	6070									
		1/3	0.29	593	4735	11.9	7146	6462									
		1/3	0.33	623	4974	13.2	7508	6853	6256								
		1/2	0.41	669	5341	14.9	8062	7446	6888	6609	6319						
		1/2	0.50	715	5709	16.5	8616	8036	7508	7250	6986	6426					
		3/4	0.58	751	5996	17.7	9050	8495	7988	7742	7494	6977	6390				
		3/4	0.67	787	6284	19.0	9484	8952	8463	8228	7993	7510	6989				
		3/4	0.77	823	6571	20	9918	9407	8935	8709	8485	8030	7548	7006			
		1	0.85	851	6795	21	10255	9761	9301	9081	8864	8427	7970	7478			
		1	0.92	879	7018	23	10593	10113	9665	9451	9240	8819	8383	7921			
		1	1.03	908	7250	24	10942	10477	10040	9831	9627	9220	8803	8367	7610		
		1-1/2	1.19	953	7609	26	11485	11040	10619	10419	10222	9834	9443	9038	8386		
		1-1/2	1.35	998	7968	28	12027	11602	11197	11003	10813	10442	10071	9692	9092		
		1-1/2	1.56	1042	8320	30	12557	12150	11758	11570	11388	11030	10676	10317	9757	8658	
		2	1.72	1078	8607	32	12991	12597	12216	12034	11855	11507	11165	10821	10288	9312	
		2	1.89	1114	8895	34	13425	13043	12673	12495	12321	11982	11650	11318	10810	9900	
		2	2.07	1149	9174	36	13847	13476	13116	12942	12772	12442	12119	11797	11309	10446	9320
36	36 LXUL	1/3	0.16	300	2866	5.7	8094										
		1/3	0.24	340	3248	7.1	9174										
		1/3	0.33	380	3631	8.5	10253	8601									
		1/2	0.38	399	3812	9.2	10766	9158	7817								
		1/2	0.44	418	3994	10.0	11278	9710	8463	7748							
		1/2	0.50	436	4166	10.9	11764	10233	9058	8390							
		3/4	0.58	458	4376	12.0	12357	10868	9762	9147	8491						
		3/4	0.67	480	4586	13.1	12951	11502	10444	9883	9273						
		3/4	0.76	502	4796	14.3	13545	12135	11111	10596	10030						
		1	0.85	519	4959	15.2	14003	12625	11619	11132	10601	9422					
		1	0.93	536	5121	16.0	14462	13112	12122	11657	11159	10065					
		1	1.02	553	5284	16.9	14921	13599	12621	12174	11706	10664					
		1-1/2	1.19	581	5551	18.3	15676	14403	13439	13012	12581	11627	10564				
		1-1/2	1.37	609	5819	19.6	16432	15203	14251	13839	13433	12561	11599				
		1-1/2	1.56	636	6077	21	17160	15972	15031	14630	14241	13435	12536	11554			
	36 LXUM	2	1.73	658	6287	22	17754	16600	15667	15269	14891	14128	13283	12383			
		2	1.90	680	6497	23	18347	17225	16300	15908	15537	14806	14015	13155			
		2	2.09	701	6698	24	18914	17820	16903	16515	16151	15445	14698	13879			
		1/4	0.17	375	3583	8.1	7891										
		1/4	0.25	420	4013	9.9	8838										
		1/3	0.29	442	4223	10.8	9301	8146									
		1/3	0.33	464	4433	11.8	9764	8667									
		1/2	0.41	498	4758	13.6	10479	9460	8391	7840							
		1/2	0.50	533	5093	15.4	11215	10265	9278	8766	8251						
		3/4	0.58	560	5351	16.7	11784	10880	9947	9464	8974	8006					
		3/4	0.67	587	5609	18.0	12352	11491	10606	10149	9684	8756					
		3/4	0.77	614	5867	19.4	12920	12097	11256	10823	10381	9488	8594				
		1	0.85	635	6067	20	13362	12567	11756	11339	10915	10052	9203				
		1	0.94	656	6268	21	13804	13035	12252	11851	11443	10610	9782	8853			
		1	1.03	677	6469	23	14246	13501	12744	12357	11964	11161	10352	9544			
		1-1/2	1.19	710	6784	24	14940	14230	13511	13145	12773	12013	11240	10480			
		1-1/2	1.36	743	7099	26	15634	14956	14270	13923	13570	12850	12114	11378	10235		
		1-1/2	1.56	777	7424	28	16350	15701	15047	14716	14381	13698	13000	12292	11251		
		2	1.72	804	7682	29	16918	16291	15660	15341	15019	14362	13692	13009	11996		
		2	1.90	831	7940	31	17486	16880	16270	15962	15651	15020	14375	13717	12729		
		2	2.09	857	8189	33	18033	17446	16854	16556	16256	15647	15024	14391	13430	11788	

Performance shown is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. *Sone values are for maximum cataloged CFM at specified RPM. **Shaded area denotes CFM where aluminum dampers are required.**

LXUL / LXUM

Fan Size	Model Number	HP	Max. BHP	RPM	Tip Speed	Sones*	CFM at Static Pressure										
							0.000	0.050	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625
42	42 LXUL	1/3	0.28	265	2948	7.5	11229										
			0.33	279	3104	8.3	11822										
		1/2	0.38	293	3260	9.2	12416										
			0.44	307	3415	10.1	13009	11299									
			0.50	320	3560	11.1	13560	11924									
		3/4	0.57	336	3738	12.3	14238	12684									
			0.66	352	3916	13.5	14916	13436	11822								
			0.76	369	4105	14.8	15636	14227	12724	11820							
		1	0.85	382	4250	15.8	16187	14827	13394	12579							
			0.94	395	4394	16.8	16738	15424	14051	13296							
			1.03	407	4528	17.8	17246	15972	14650	13936	13114						
		1-1/2	1.18	427	4751	19.3	18094	16880	15631	14971	14256						
			1.36	447	4973	21	18941	17783	16597	15979	15326						
			1.55	467	5196	22	19789	18680	17551	16968	16361	14966					
		2	1.67	479	5329	23	20297	19217	18118	17554	16970	15674					
			1.80	491	5463	24	20806	19752	18682	18135	17571	16349					
			1.93	503	5596	24	21314	20286	19244	18712	18166	17000					
			2.08	515	5730	25	21823	20819	19802	19284	18756	17637	16285				
	0.30		324	3604	11.3	11095											
	42 LXUM	1/2	0.50	385	4283	16.5	13184	11928									
			0.62	414	4606	19.4	14177	13009	11833	11231							
		3/4	0.77	443	4929	22	15170	14079	12983	12428	11859						
			0.89	465	5173	23	15924	14884	13842	13316	12781	11658					
			1.02	488	5429	24	16711	15721	14728	14229	13725	12682	11520				
		1-1/2	1.18	512	5696	26	17533	16589	15644	15169	14691	13714	12673				
			1.36	536	5963	27	18355	17453	16551	16098	15643	14720	13756	12692			
			1.56	561	6241	29	19211	18350	17487	17055	16622	15746	14846	13889			
		2	1.72	580	6453	30	19862	19029	18195	17777	17359	16515	15653	14751			
			1.89	599	6664	31	20512	19706	18898	18494	18089	17275	16446	15590	14177		
			2.08	618	6876	33	21163	20381	19599	19207	18815	18027	17229	16410	15099		
		3	2.39	648	7209	36	22190	21445	20698	20325	19951	19202	18446	17676	16472		
			2.74	678	7543	40	23218	22505	21792	21435	21078	20363	19643	18915	17790	15655	
			3.14	709	7888	44	24279	23598	22916	22575	22233	21550	20864	20172	19114	17217	
		5	3.18	712	7922	45	24382	23703	23024	22685	22345	21664	20981	20293	19240	17360	
			3.22	715	7955	45	24485	23809	23133	22795	22456	21779	21099	20413	19366	17500	
			3.26	718	7988	46	24588	23914	23241	22904	22567	21893	21216	20533	19492	17640	
48		48 LXUL	1/2	0.23	210	2666	5.9	13109									
	0.50			271	3440	9.2	16917	14688									
	3/4		0.61	291	3694	10.4	18166	16085	13240								
			0.76	312	3961	11.7	19477	17528	15269	13596							
			0.89	328	4164	12.9	20476	18616	16666	15052	13637						
	1		1.02	344	4367	14.0	21474	19697	17918	16611	15090						
			1.18	361	4583	15.2	22536	20839	19178	18151	16650						
			1.35	378	4799	16.5	23597	21974	20400	19529	18308	15674					
	1-1/2		1.55	395	5015	17.8	24658	23102	21598	20814	19845	17229					
			1.72	409	5193	18.9	25532	24029	22572	21833	20992	18485					
			1.90	423	5370	19.9	26406	24951	23539	22835	22072	19827	17563				
	2		2.07	436	5536	21	27217	25805	24430	23754	23041	21094	18763				
			2.40	457	5802	22	28528	27180	25862	25217	24561	22991	20641				
			2.74	478	6069	24	29839	28549	27284	26665	26048	24691	22666	20588			
	3		3.13	500	6348	26	31213	29979	28764	28169	27581	26354	24749	22552			
			3.29	508	6450	26	31712	30498	29301	28714	28135	26938	25455	23305			
			3.45	516	6551	27	32212	31016	29836	29258	28687	27519	26131	24082	21297		
	48 LXUM		1/3	0.23	250	3174	7.2	12925									
		0.33		281	3567	8.8	14527										
		1/2	0.40	301	3821	9.9	15561	13350									
			0.50	322	4088	11.2	16647	14593									
			0.62	346	4393	12.8	17888	15983	13792								
		3/4	0.76	371	4710	14.5	19180	17408	15486	14267	12825						
			0.85	384	4875	15.4	19852	18142	16322	15216	13907						
			0.94	397	5040	16.4	20524	18871	17137	16127	14918						
		1	1.02	409	5193	17.3	21145	19541	17873	16936	15821						
			1.18	429	5447	18.7	22179	20651	19079	18228	17258	14863					
			1.35	449	5701	20	23213	21754	20264	19476	18615	16498					
		1-1/2	1.55	470	5967	22	24298	22905	21489	20754	19971	18100	15664				
			1.72	486	6170	23	25125	23779	22413	21710	20975	19267	17164				
			1.89	502	6374	24	25953	24649	23330	22656	21955	20388	18445				
		2	2.08	518	6577	25	26780	25517	24241	23591	22923	21465	19674	17502			
			2.39	543	6894	27	28072	26868	25653	25037	24412	23079	21515	19663			
			2.74	568	7212	29	29365	28214	27054	26468	25875	24639	23252	21595			
		3	3.13	594	7542	31	30709	29608	28501	27943	27380	26222	24966	23509	20917		

Performance shown is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. *Sone values are for maximum cataloged CFM at specified RPM. **Shaded area denotes CFM where aluminum dampers are required.**

LXUL / LXUM Performance Data

LXUL / LXUM

Fan Size	Model Number	HP	Max. BHP	RPM	Tip Speed	Sones*	CFM at Static Pressure										
							0.000	0.050	0.100	0.125	0.150	0.200	0.250	0.300	0.375	0.500	0.625
54	54 LXUL	1/2	0.30	185	2615	5.7	16669										
			0.48	218	3081	7.4	19642										
		3/4	0.55	229	3237	8.1	20633	17158									
			0.67	240	3392	8.7	21624	18312									
		1	0.75	251	3548	9.5	22615	19442									
			0.84	260	3675	10.3	23426	20354	16891								
		1-1/2	0.94	269	3802	11.1	24237	21257	17971								
			1.02	277	3916	11.8	24958	22055	18938	17271							
		2	1.19	291	4113	13.1	26219	23439	20607	18921	17413						
			1.36	305	4311	14.4	27481	24814	22210	20605	19104						
		3	1.52	318	4495	15.6	28652	26081	23636	22170	20636						
			1.71	329	4651	16.6	29643	27149	24807	23465	21954	19192					
		4	1.89	340	4806	17.6	30634	28214	25958	24719	23284	20597					
			2.05	350	4948	18.3	31535	29178	26986	25825	24482	21801					
		5	2.28	363	5131	19.1	32706	30427	28311	27226	26006	23334	20777				
			2.56	376	5315	20	33878	31673	29619	28592	27477	24881	22519				
		6	2.82	389	5499	21	35049	32914	30918	29935	28897	26451	24099				
			3.12	402	5683	22	36220	34150	32207	31263	30283	28014	25633	23373			
	54 LXUM	1/2	0.33	210	2968	6.9	17217										
			0.49	240	3392	8.6	19676	16587									
		3/4	0.61	258	3647	9.9	21152	18190									
			0.76	276	3901	11.5	22628	19770	17219								
		1	0.88	290	4099	12.7	23776	20988	18768	17082							
			1.02	305	4311	14.1	25005	22293	20270	18833	17284						
		1-1/2	1.18	320	4523	15.5	26235	23591	21688	20529	18979						
			1.36	335	4735	16.9	27465	24892	23061	22081	20735						
		2	1.55	350	4948	18.1	28695	26191	24407	23526	22429	19711					
			1.71	362	5117	18.9	29679	27225	25471	24639	23688	21061					
		3	1.89	374	5287	19.6	30662	28266	26528	25734	24870	22437					
			2.07	386	5456	20	31646	29305	27580	26813	26013	23846	21424				
		4	2.40	405	5725	22	33204	30941	29237	28502	27766	25992	23578				
			2.75	424	5994	23	34762	32577	30889	30173	29476	27955	25773	23604			
		5	3.13	443	6262	24	36319	34213	32538	31835	31164	29785	27978	25754			
			3.73	469	6630	26	38451	36439	34789	34096	33450	32183	30751	28765	25799		
		6	4.38	495	6997	29	40583	38660	37042	36353	35720	34519	33274	31722	28761		
			5.13	522	7379	32	42796	40965	39374	38690	38067	36909	35768	34501	31884		
60	60 LXUL	1	0.31	150	2356	5.7	19853										
			1.01	223	3502	12.9	29514	25237	21547								
		1-1/2	1.18	234	3675	13.9	30970	26843	23384	21087							
			1.35	245	3848	15.0	32426	28439	25137	23318	20001						
		2	1.54	256	4021	16.0	33882	30034	26842	25224	23014						
			1.71	265	4162	16.8	35073	31329	28214	26691	24916	19905					
		3	1.88	274	4303	17.6	36264	32623	29572	28117	26540	21330					
			2.03	282	4429	18.3	37323	33771	30768	29360	27889	22898	20136				
		4	2.39	296	4649	19.7	39176	35769	32844	31502	30145	26676	22213	20044			
			2.74	310	4869	21	41029	37758	34905	33610	32330	29513	24520	22219			
		5	3.06	323	5073	22	42750	39599	36805	35547	34318	31768	27622	24145			
			3.75	344	5403	25	45529	42554	39857	38645	37477	35157	32530	27742	24457		
		6	4.48	365	5733	27	48308	45494	42901	41715	40591	38413	36159	33243	27576		
			5.23	385	6047	30	50956	48281	45777	44620	43529	41446	39370	37100	31103	26362	
		7-1/2	5.78	399	6267	33	52808	50223	47787	46653	45575	43541	41551	39473	34831	28506	
			6.50	413	6487	35	54661	52160	49787	48673	47611	45621	43698	41742	38231	30570	
		8	7.14	427	6707	37	56514	54090	51775	50683	49643	47686	45819	43952	40863	32714	28890
			7.80	441	6927	39	58367	56018	53766	52698	51673	49743	47920	46121	43283	35150	31111
	60 LXUM	1	0.41	200	3151	7.9	20405										
			1.02	271	4256	14.1	27649	25221	22788	21280	19574						
		1-1/2	1.17	284	4461	15.2	28975	26656	24366	23053	21470						
			1.35	297	4665	16.3	30302	28082	25902	24732	23329	20187					
		2	1.54	311	4885	17.5	31730	29609	27528	26456	25239	22320					
			1.71	322	5057	18.4	32852	30803	28790	27774	26668	23928					
		3	1.90	333	5230	19.4	33974	31992	30041	29070	28045	25525	22720				
			2.07	343	5387	20	34995	33069	31172	30234	29262	26946	24260				
		4	2.40	360	5654	22	36729	34894	33081	32187	31285	29262	26751	24087			
			2.75	377	5921	23	38464	36711	34975	34118	33265	31449	29210	26762			
		5	3.11	393	6173	25	40096	38414	36746	35922	35104	33418	31442	29106			
			3.75	418	6565	28	42647	41064	39493	38714	37942	36395	34723	32711	29400		
		6	4.45	443	6958	31	45197	43704	42219	41482	40750	39296	37800	36117	33068		
			5.24	467	7335	34	47646	46229	44819	44117	43420	42038	40651	39174	36524	31479	
		7-1/2	5.31	469	7367	34	47850	46439	45035	44336	43642	42265	40885	39422	36804	31820	
			5.38	471	7398	34	48054	46649	45251	44555	43863	42492	41119	39670	37082	32142	
		8	5.45	473	7429	35	48258	46859	45466	44774	44085	42719	41353	39917	37361	32460	
			5.55	476	7477	35	48564	47174	45790	45101	44417	43058	41702	40282	37777	32935	

Performance shown is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. *Sone values are for maximum cataloged CFM at specified RPM. **Shaded area denotes CFM where aluminum dampers are required.**

Description: Fan shall be a roof mounted, direct drive, aluminum propeller exhaust or supply ventilator with spun aluminum top cap.

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.

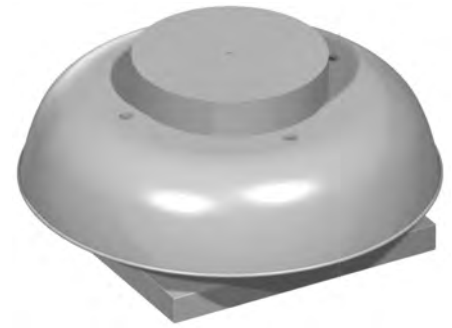
Construction: Fan shall be of bolted and welded construction utilizing corrosion resistant fasteners. The spun aluminum structural components shall be constructed of minimum 16 gauge marine alloy aluminum, bolted to a rigid aluminum support structure. The aluminum base shall have continuously welded curb cap corners for maximum leak protection. The motor shall be mounted on a 12 gauge steel wire guard. Unit shall bear an engraved aluminum nameplate and shall be shipped in ISTA Certified Transit Tested Packaging.

Propeller - Propeller shall have aluminum blades and a plated steel hub. The hub shall be securely fastened to the motor shaft utilizing setscrews. Propeller shall be balanced in accordance with AMCA Standard 204-05, Balance Quality and Vibration Levels for Fans.

Motor: Motor shall be 115/1/60, open drip proof type with permanently lubricated sealed bearings.

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

Propeller Exhaust/ Supply/Reversible



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

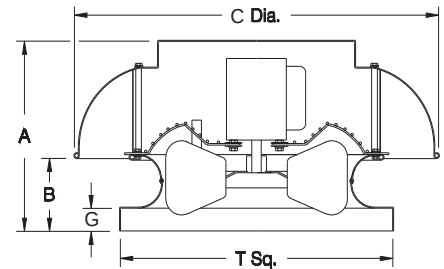


Type REBEL is furnished standard with UL 705 and cUL 705 listings (Power Ventilator/ZACT).

REBEL Dimensions

Size	A	B	C	G	T-Sq.	Roof Opening Square*
12	14-9/16	5-1/8	28-1/4	2	20	15-1/2
16	16	6-1/8	33-1/4	2	28	23-1/2
20	18-3/8	7-1/8	43-1/4	2	32	27-1/2
24	21-5/8	9-1/8	47-1/4	3	36	31-1/2

All dimensions in inches. Weights in lbs. *Roof opening size for curbs supplied by Loren Cook Company only.



REBEL - Exhaust Performance Data

Catalog No.	Max Watts/BHP	Motor RPM	CFM vs. Static Pressure								
			0"	1/8"	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
120REBE	.07	1075	1022	840	688	457	154				
125REBE	.13	1550	1184	1056	950	847	643	569	409	179	
160REBE	.12	850	1707	1411	1145	851	644	329			
165REBE	.16	1085	1848	1593	1351	1127	909	744	412		
200REBE	.16	750	2700	1967	1415	963					
205REBE	.38	1075	3821	3359	2931	2471	2082	1671	1361	794	273
240REBE	.34	750	4665	3591	2643	2012	1391				
245REBE	.75	1075	5879	5367	4841	4289	3783	3190	2819	2486	2016

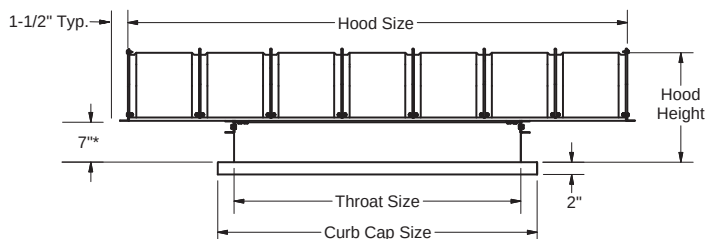
Performance shown is for Installation Type A: Free inlet, Free outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances in the airstream.

REBEL - Supply Performance Data

Catalog No.	Max Watts/BHP	Motor RPM	CFM vs. Static Pressure								
			0"	1/16"	1/8"	3/16"	1/4"	3/8"	7/16"	1/2"	5/8"
120REBS	.07	1075	1063	951	810	688	520				
125REBS	.13	1550	1187	1113	1005	908	818	621	532	415	
160REBS	.12	850	1630	1460	1315	1153	987				
165REBS	.18	1085	1749	1503	1362	1249	1037	894	736		
200REBS	.18	750	3112	2784	2341	1748	1063				
205REBS	.38	1075	3831	3648	3447	3197	2923	2336	1924	1553	
240REBS	.37	750	4644	4223	3773	3129	2316				
245REBS	.78	1075	5657	5416	5170	4900	4618	4059	3726	3399	2745

Performance shown is for Installation Type A: Free inlet, Free outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances in the airstream.

Gravity Ventilator



*NOTE: Units with a throat width of 24" or less have a 4" standard throat height.

Description: Unit shall be a hooded high efficiency roof mounted gravity ventilator.

Construction: The unit shall be of bolted and welded construction utilizing corrosion resistant fasteners. The hood shall be constructed of minimum 18 gauge aluminum, bolted to a minimum 8 gauge aluminum support structure. A radius throat must be provided for optimum performance. Lifting lugs shall be provided to help prevent damage from improper lifting. A rain gutter shall be provided to prevent rain infiltration. The base shall have continuously welded curb cap corners for maximum leak protection. Birdscreen constructed of 1/2" galvanized mesh shall be mounted in the hood. Unit shall bear an engraved aluminum nameplate and shall be shipped in ISTA Certified Transit Tested Packaging.

Product: Units shall be model GI and GR as manufactured by Loren Cook Company of Springfield, Missouri.

Intake Hood Velocity Notes

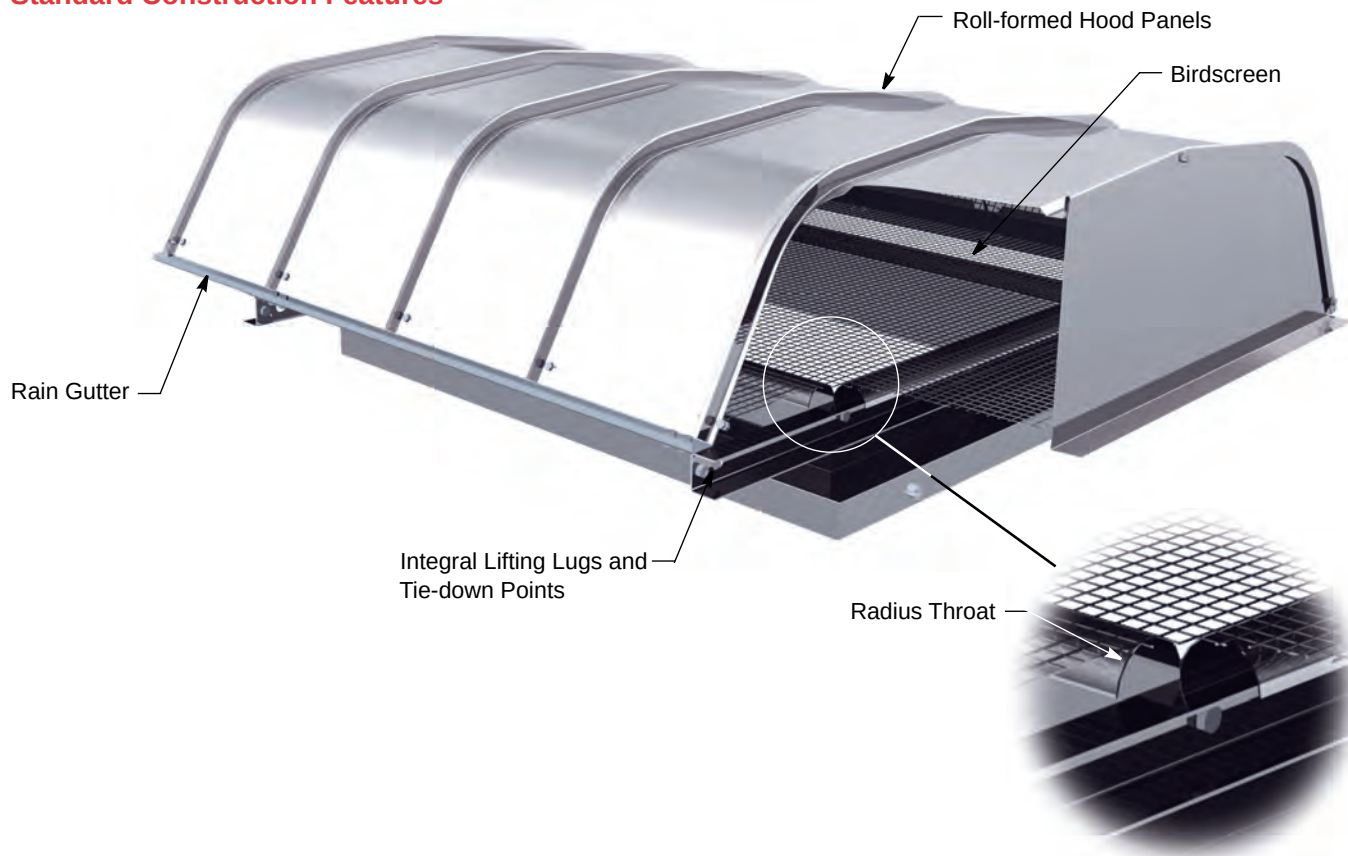
Velocity to 500 FPM - Velocity below 500 FPM provides for a level of protection against the influx of airborne mist or debris.

Velocity 500 FPM to 1000 FPM - Within this velocity range there is a possibility that fine, airborne mist will be carried into the building through the vent. Care should be taken in the location of the unit if airborne mist is a problem.

Velocity Greater Than 1000 FPM - Velocity in this range is not recommended unless special means are taken to prevent the influx of airborne matter and large droplets of moisture into the interior of the building.

Velocities shown are to be used as a guide only. Final application and conditions will be a governing factor.

Standard Construction Features



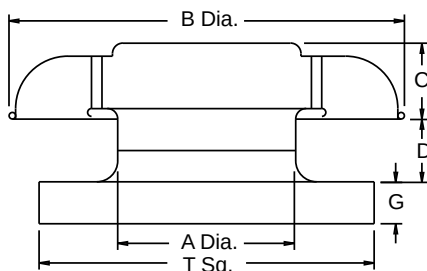
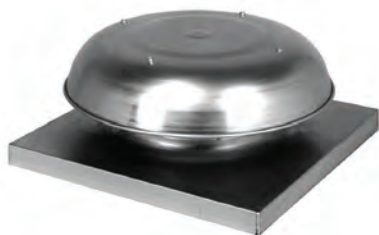
GI - Intake Performance Data

Throat Size (In.)	Hood Size (In.)	Curb Cap Size (In.)	Hood Height (In.)					Static Pressure Drop									
				Ducted				0.017	0.028	0.040	0.056	0.073	0.093	0.115	0.140	0.167	0.196
				Non-Ducted				0.044	0.063	0.085	0.110	0.139	0.170	0.205	0.243	0.284	0.328
				Throat Area	Hood Area	Ship- ping Wt. Galv. (lbs.)	Ship- ping Wt. Alum. (lbs.)	Hood Velocity									
								200	250	300	350	400	450	500	550	600	650
								CFM									
12 x 12	28 x 24	17.5 x 17.5	11	1.00	3.67	116	87	600	750	900	1050	1200	1350	1500	1650	1800	1950
16 x 16	28 x 36	21.5 x 21.5	11	1.78	5.22	138	101	944	1181	1417	1653	1889	2125	2361	2597	2833	3069
18 x 18	29 x 36	23.5 x 23.5	12	2.25	5.00	144	104	1000	1250	1500	1750	2000	2250	2500	2750	3000	3250
24 x 24	48 x 36	29.5 x 29.5	14	4.00	8.00	195	136	1600	2000	2400	2800	3200	3600	4000	4400	4800	5200
24 x 48	48 x 72	29.5 x 53.5	17	8.00	16.00	324	222	3200	4000	4800	5600	6400	7200	8000	8800	9600	10400
30 x 30	56 x 48	35.5 x 35.5	20	6.25	12.42	260	175	2483	3104	3725	4346	4967	5588	6208	6829	7450	8071
36 x 36	65 x 60	41.5 x 41.5	22	9.00	18.08	336	222	3617	4521	5425	6329	7233	8138	9042	9946	10850	11754
36 x 48	62 x 84	41.5 x 53.5	24	12.00	24.17	410	271	4833	6042	7250	8458	9667	10875	12083	13292	14500	15708

GR - Relief Performance Data

Throat Size (In.)	Hood Size (In.)	Curb Cap Size (In.)	Hood Height (In.)					Static Pressure Drop									
				Ducted				0.011	0.019	0.030	0.044	0.061	0.080	0.101	0.125	0.152	0.181
				Non-Ducted				0.021	0.035	0.054	0.076	0.103	0.133	0.167	0.205	0.248	0.294
				Throat Area	Hood Area	Shipping Wt. Galv. (lbs.)	Shipping Wt. Alum. (lbs.)	Hood Velocity									
								300	400	500	600	700	800	900	1000	1100	1200
								CFM									
12 x 12	28 x 24	17.5 x 17.5	11	1.00	3.67	116	87	900	1200	1500	1800	2100	2400	2700	3000	3300	3600
16 x 16	28 x 36	21.5 x 21.5	11	1.78	5.22	137	101	1417	1889	2361	2833	3306	3778	4250	4722	5194	5667
18 x 18	28 x 36	23.5 x 23.5	11	2.25	4.75	139	102	1425	1900	2375	2850	3325	3800	4275	4750	5225	5700
24 x 24	34 x 36	29.5 x 29.5	11	4.00	4.50	158	113	1350	1800	2250	2700	3150	3600	4050	4500	4950	5400
24 x 48	38 x 60	29.5 x 53.5	13	8.00	7.83	235	164	2350	3133	3917	4700	5483	6267	7050	7833	8617	9400
30 x 30	40 x 48	35.5 x 35.5	16	6.25	7.08	210	145	2125	2833	3542	4250	4958	5667	6375	7083	7792	8500
36 x 36	54 x 48	41.5 x 41.5	17	9.00	9.00	255	171	2700	3600	4500	5400	6300	7200	8100	9000	9900	10800
36 x 48	58 x 60	41.5 x 53.5	19	12.00	12.17	312	208	3650	4867	6083	7300	8517	9733	10950	12167	13383	14600

Spun Aluminum Gravity Ventilator



Description: Unit shall be a spun aluminum, roof mounted gravity ventilator.

Construction: The unit shall be of bolted and welded construction utilizing corrosion resistant fasteners. The spun aluminum structural components shall be constructed of minimum 16 gauge marine alloy aluminum, bolted to a rigid aluminum support structure. The aluminum base shall have continuously welded curb cap corners for maximum leak protection. The spun aluminum baffle shall have a rolled bead for added strength. Birdscreen constructed of 1/2" mesh shall be mounted across the air opening. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM and static pressure. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

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

Dimensions

Size	A Dia.	B Dia.	C	D	G	T Sq.	Roof Opening	Approx. Ship Wt.-Lbs.
8	8-5/8	18-3/4	4-5/8	3-1/4	2	18	13-1/2	13
12	12-1/2	27-3/4	5-1/16	3-1/2	2	20	15-1/2	20
16	16-1/2	27-3/4	5-1/16	5-3/4	2	28	23-1/2	25
20	20-1/2	36-5/8	6-3/4	4-7/8	2	32	27-1/2	40
24	24-3/4	42-3/4	8	6-1/2	3	36	31-1/2	127
30	30-3/4	52-5/8	17-1/4	6-1/4	3	42	37-1/2	183
36	36-3/4	62-5/8	17-1/2	7-1/4	3	48	43-1/2	255
42	42-3/4	73-5/8	14	8-1/4	3	54	49-1/2	287
48	48-3/4	73-5/8	14	8-1/4	3	60	55-1/2	288

All dimensions in inches.

PR Gravity Application

Temperature Difference* (°F)		10				10				20				20			
Wind Speed** (MPH)		5				10				5				10			
Height*** (Ft.)		10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40
Size	Throat Area (Sq. Ft.)	CFM				CFM				CFM				CFM			
8	0.406	96	104	111	118	178	182	187	191	104	118	131	143	182	191	200	208
12	0.852	207	224	241	256	385	395	404	413	224	256	284	310	395	413	431	449
16	1.485	360	391	420	446	671	688	704	721	391	446	495	540	688	721	752	782
20	2.292	556	604	648	689	1035	1062	1087	1112	604	689	764	833	1062	1112	1161	1207
24	3.341	811	880	944	1004	1509	1548	1585	1621	880	1004	1114	1215	1548	1621	1692	1760
30	5.157	1251	1358	1457	1550	2330	2389	2446	2503	1358	1550	1720	1875	2389	2503	2611	2716
36	7.366	1787	1940	2081	2213	3328	3412	3494	3575	1940	2213	2457	2678	3412	3575	3730	3879
42	9.968	2419	2625	2816	2995	4503	4617	4728	4837	2625	2995	3325	3624	4617	4837	5048	5250
48	12.962	3145	3413	3662	3895	5856	6004	6149	6290	3413	3895	4323	4713	6004	6290	6564	6827

*Allowable temperature rise of indoor temperature above outdoor temperatures. **Consult local weather station for average wind speed. Use 1/2 average wind speed. If average is over 20 MPH, consult gravity ventilation application section (pages 4-5) for calculation of performance. ***See gravity ventilation application section (pages 4-5) for explanation of height.

PR - Intake Performance Data

Size	Throat Area (Sq. Ft.)	Face Area (Sq. Ft.)	CFM at 500 FPM Face Velocity	Static Pressure Drop (in W.G.)							
				0.05	0.1	0.125	0.15	0.2	0.25	0.3	0.375
				CFM							
8	.406	0.723	361	252	356	398	436	503	543	617	689
12	.852	2.390	1195	529	749	837	917	1059	1142	1297	1450
16	1.485	1.608	804	936	1324	1480	1621	1872	2019	2293	2563
20	2.292	2.793	1396	1452	2054	2296	2516	2905	3132	3558	3977
24	3.341	3.739	1869	2091	2958	3307	3622	4183	4510	5123	5728
30	5.157	6.452	3226	3247	4592	5134	5624	6494	7002	7953	8892
36	7.366	9.921	4961	4706	6655	7440	8150	9411	10149	11527	12887
42	9.968	14.879	7439	6307	8919	9971	10923	12613	13601	15448	17271
48	12.962	11.345	5672	8282	11712	13095	14344	16563	17861	20286	22680

PR - Relief Performance Data

Size	Throat Area (Sq. Ft.)	Face Area (Sq. Ft.)	Pressure Drop (in WG)							
			0.05	0.1	0.125	0.15	0.2	0.25	0.3	0.375
			CFM							
8	.394	1.38	212	299	334	366	423	473	518	579
12	.852	2.04	445	629	703	770	889	994	1089	1218
16	1.485	3.08	786	1112	1243	1362	1573	1758	1926	2154
20	2.292	5.31	1220	1726	1929	2114	2440	2729	2989	3342
24	3.341	7.92	1757	2485	2778	3043	3514	3929	4304	4812
30	5.157	10.77	2728	3858	4313	4725	5456	6100	6682	7471
36	7.366	14.87	3954	5591	6251	6848	7907	8840	9684	10827
42	9.968	19.67	5299	7493	8378	9177	10597	11848	12979	14511
48	12.962	20.53	6958	9840	11002	12052	13916	15559	17044	19055

Description: Unit shall be a tiered spun aluminum, roof mounted gravity ventilator.

Construction: The unit shall be of bolted and welded construction utilizing corrosion resistant fasteners. The spun aluminum structural components shall be constructed of minimum 16 gauge marine alloy aluminum, bolted to a rigid aluminum support structure. The aluminum base shall have continuously welded curb cap corners for maximum leak protection. The spun aluminum baffle shall have a rolled bead for added strength. Birdscreen constructed of 1/2" mesh shall be mounted across the air opening. Unit shall bear an engraved aluminum nameplate. Nameplate shall indicate design CFM and static pressure. Unit shall be shipped in ISTA Certified Transit Tested Packaging.

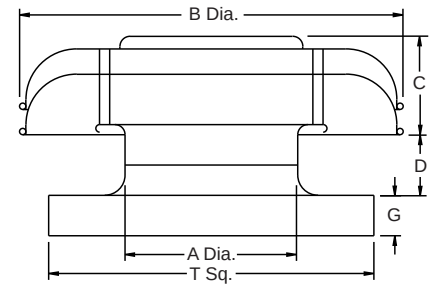
Product: Unit shall be model TR as manufactured by Loren Cook Company of Springfield, Missouri.

Dimensions

Size	A Dia.	B Dia.	C	D	G	T Sq.	Roof Opening	Approx. Ship Wt.-Lbs.
8	8-5/8	18-3/4	8-3/16	3-1/4	2	18	13-1/2	16
12	12-1/2	27-3/4	8-5/8	3-1/2	2	20	15-1/2	20
16	16-1/2	27-3/4	8-5/8	5-3/4	2	28	23-1/2	25
20	20-1/2	36-5/8	12-1/16	4-7/8	2	32	27-1/2	45
24	24-3/4	42-3/4	14-3/16	6-1/2	3	36	31-1/2	133
30	30-3/4	52-5/8	30-13/16	6-1/4	3	42	37-1/2	220
36	36-3/4	62-5/8	32-5/16	7-1/4	3	48	43-1/2	282
42	42-3/4	73-5/8	24-9/16	8-1/4	3	54	49-1/2	290
48	48-3/4	73-5/8	24-9/16	8-1/4	3	60	55-1/2	303

All dimensions in inches.

Spun Aluminum Tiered Gravity Ventilator



TR Gravity Application

Temperature Difference* (°F)		10				10				20				20			
Wind Speed** (MPH)		5				10				5				10			
Height*** (Ft.)		10	20	30	40	10	20	30	40	10	20	30	40	10	20	30	40
Size	Throat Area (Sq. Ft.)	CFM				CFM				CFM				CFM			
8	0.406	96	104	111	118	178	182	187	191	104	118	131	143	182	191	200	208
12	0.852	207	224	241	256	385	395	404	413	224	256	284	310	395	413	431	449
16	1.485	360	391	420	446	671	688	704	721	391	446	495	540	688	721	752	782
20	2.292	556	604	648	689	1035	1062	1087	1112	604	689	764	833	1062	1112	1161	1207
24	3.341	811	880	944	1004	1509	1548	1585	1621	880	1004	1114	1215	1548	1621	1692	1760
30	5.157	1251	1358	1457	1550	2330	2389	2446	2503	1358	1550	1720	1875	2389	2503	2611	2716
36	7.366	1787	1940	2081	2213	3328	3412	3494	3575	1940	2213	2457	2678	3412	3575	3730	3879
42	9.968	2419	2625	2816	2995	4503	4617	4728	4837	2625	2995	3325	3624	4617	4837	5048	5250
48	12.962	3145	3413	3662	3895	5856	6004	6149	6290	3413	3895	4323	4713	6004	6290	6564	6827

*Allowable temperature rise of indoor temperature above outdoor temperatures.

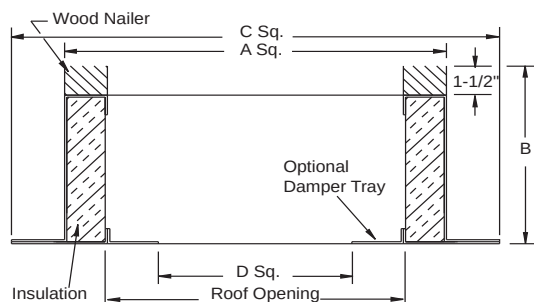
**Consult local weather station for average wind speed. Use 1/2 average wind speed. If average is over 20 MPH, consult gravity ventilation application section (pages 4-5) for calculation of performance.

***See gravity ventilation application section (pages 4-5) for explanation of height.

TR - Intake Performance Data

Size	Throat Area (Sq. Ft.)	Face Area (Sq. Ft.)	CFM at 500 FPM Face Velocity	Static Pressure Drop (in W.G.)							
				0.05	0.1	0.125	0.15	0.2	0.25	0.3	0.375
				CFM							
8	.406	.972	486	302	463	517	567	655	706	802	896
12	.852	3.018	1509	688	973	1088	1192	1376	1484	1685	1884
16	1.485	2.236	1118	1217	1721	1924	2107	2434	2624	2980	3332
20	2.292	4.092	2046	1888	2670	2985	3270	3776	4072	4625	5171
24	3.341	5.637	2818	2719	3845	4299	4709	5438	5864	6660	7446
30	5.157	9.149	4575	4221	5969	6674	7311	8442	9103	10339	11559
36	7.366	14.036	7018	6117	8651	9672	10596	12235	13193	14984	16753
42	9.968	20.481	10240	8198	11594	12963	14200	16397	17681	20082	22452
48	12.962	16.947	8473	10766	15226	17023	18648	21532	23219	26372	29485

Roof Curb



Standard Construction Features

- 18 gauge galvanized steel (RCG) or .080 aluminum (RCA).
- 1-1/2", 3 lbs. density thermal and acoustical insulation.
- Continuously welded corners.
- Wood nailer.

Options

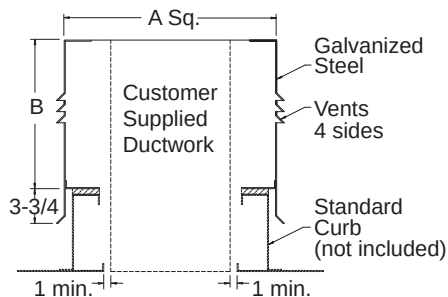
- Damper tray.
- No wood nailer (deduct 1-1/2" for actual height).
- 13-1/2" tall construction.

Galvanized Steel or Aluminum Roof Curb Dimensions

AC Unit	Catalog Number (Galvanized)	A Sq.	B	C Sq.	D Sq.	Roof Opening
60, 70, 80, 90, 100	RCG-16	16-1/2	9-1/2	20-1/2	9-3/4	13-1/2
120, 135	RCG-18	18-1/2	9-1/2	22-1/2	11-3/4	15-1/2
150, 165	RCG-22	22-1/2	9-1/2	26-1/2	15-3/4	19-1/2
180, 195, 210, 225, 245	RCG-28	28-1/2	9-1/2	32-1/2	21-3/4	25-1/2
270, 300	RCG-34	34-1/2	9-1/2	38-1/2	27-3/4	31-1/2
330, 365	RCG-40	40-1/2	9-1/2	44-1/2	33-3/4	37-1/2
402	RCG-46	46-1/2	9-1/2	50-1/2	39-3/4	43-1/2
445, 490	RCG-52	52-1/2	9-1/2	56-1/2	45-3/4	49-1/2
540	RCG-64	64-1/2	9-1/2	68-1/2	56-3/4	61-1/2

All dimensions in inches. When motor operated damper is used, a wood nailer is required.

Vented Extension

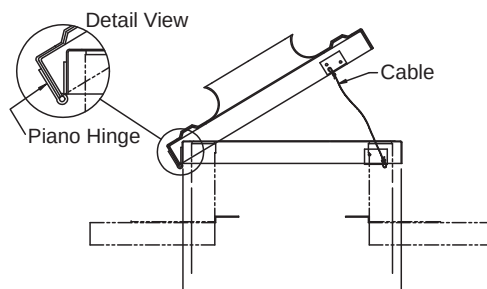
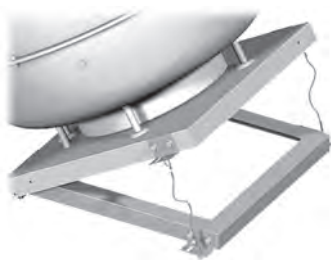


The vented extension, constructed of galvanized steel, is used to increase the discharge height of the fan. Vents in the extension allow the interior ductwork to dissipate heat.

Unit Size	Cat. No.	A Sq.	B
100	VE-17	17	20
120, 135	VE-19	19	16
150, 165	VE-23	23	16
180, 195, 210, 225, 245	VE-29	29	16
270, 300	VE-35	35	16
330, 365	VE-41	41	16
402	VE-47	47	16
445, 490	VE-53	53	16

All dimensions in inches. Roof opening size for curbs supplied by Loren Cook Company only.

Hinged Base



The hinged base is a factory welded sub-base, hinge and locking hasp that provides a secure and stable means of access to the inlet and interior ductwork for cleaning and inspection. Galvanized aircraft cable is installed on the hinged base to support the fan in an open position. Available on sizes 100 through 300, consult factory on larger sizes.

Typical Disconnect Switches

NEMA 1 - Indoor general purpose.

NEMA 1 (Lockable) - Indoor general purpose with locking capability.

NEMA 3R - Exterior mount, rain-tight.

NEMA 4 - Water-tight and dust-tight.



NEMA 1



**NEMA 1
(Lockable)**



NEMA 3R



NEMA 4

Fan Speed Control

Cook's FSC is a variable speed controller which can offer excellent energy conservation and lower sound levels when 100 percent of a direct drive fan operating capacity is not required. The FSC employs solid state circuitry for long life and dependability. The FSC is available only on 115V and 230V shaded pole or permanent split capacitor direct drive motors and is not available on 1140 RPM and 1725 RPM motors. The FSC is normally shipped loose for field installation. Optional pre-wiring is available.



5 AMP FSC

10 AMP FSC

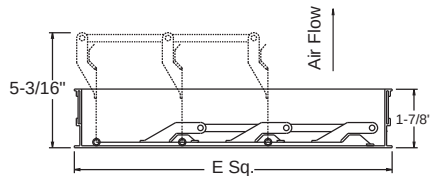
Automatic Belt Tensioner

The automatic belt tensioner maintains constant tension on the drive belt which offers two distinct benefits. It reduces startup and maintenance costs by continuously tensioning the belt throughout its life and also increases belt life by reducing slippage. Engineering studies indicate properly tensioned belts can operate at 15° to 20° F cooler internal temperature than poorly tensioned belts. A drive belt industry rule of thumb is that every 18° F increase in internal temperature will reduce belt life by 50%. The automatic belt tensioner will easily double belt life compared to installations where belt tension is not properly maintained. COOK's spun aluminum fans have stainless steel quick release latches on the topcap, providing tool free access to the automatic belt tensioner and motor compartment. The drive belt can be replaced in moments (by almost anyone) without the special skills and tools normally needed to achieve proper belt tension. Too much belt tension can reduce the life of both the fan and motor bearings. The COOK automatic belt tensioner will assure proper belt tension throughout the life of the fan, maximizing bearing life and fan reliability.

Available on sizes 60 - 540.



Gravity Backdraft Damper



ACW

Unit Size	Catalog Number	E Sq.
70	BD-8	7-3/4
90-101	BD-10	9-3/4
120-135	BD-12	11-3/4
150-165	BD-16	15-3/4
180-195	BD-20	19-3/4
210-245	BD-24	23-3/4

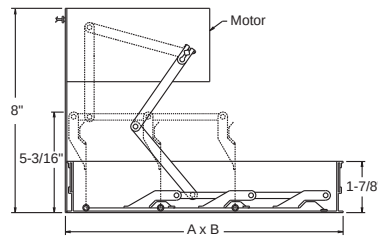
Gravity dampers feature an extruded aluminum frame, aluminum blades and aluminum hinge pins with nylon bushings. Not available with the ACSC.

ACE / ACRU

Unit Size	Catalog Number	E Sq.
60-101	BD-12	11-3/4
120-135	BD-14	13-3/4
150-165	BD-18	17-3/4
180-245	BD-24	23-3/4
270-300	BD-30	29-3/4
330-365	BD-36	35-3/4
402	BD-42	41-3/4
445-490	BD-48	47-3/4
540	BD-60	59-3/4

All dimensions in inches.

Motorized Backdraft Damper - ACE / ACRU

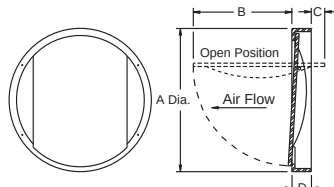


Motorized dampers feature an extruded aluminum frame, aluminum blades and aluminum hinge pins with nylon bushings. Motors are shipped loose for field installation. Available voltages include 110V, 220V, and 440V. Not available with the ACSC.

Unit Size	Catalog Number	E Sq.
60-101	BDM-12	11-3/4
120-135	BDM-14	13-3/4
150-165	BDM-18	17-3/4
180-245	BDM-24	23-3/4
270-300	BDM-30	29-3/4
330-365	BDM-36	35-3/4
402	BDM-42	41-3/4
445-490	BDM-48	53-3/4
540	BDM-60	59-3/4

All dimensions in inches.

Damper - ACW

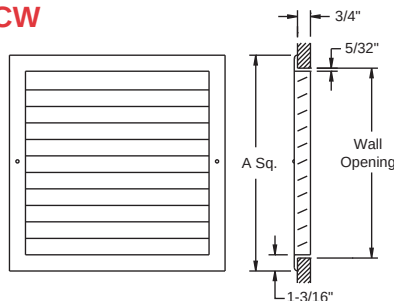


Gravity dampers feature an aluminum frame, aluminum blades and aluminum hinge pins with nylon bushings.

Unit Size	Catalog Number	A Dia.	B	C	D	No. of Blades
70	D-8	7-15/16	4-1/2	2	3/4	1
90-101	D-10	9-15/16	5-3/4	2-3/4	3/4	1
120-135	D-12	11-15/16	7	3	3/4	1
150-165	D-14	13-15/16	8-1/2	4	3/4	1
180	D-18	17-15/16	4	3	3/4	2
195-245	D-22	21-15/16	5-1/2	2-1/2	1	3

All dimensions in inches.

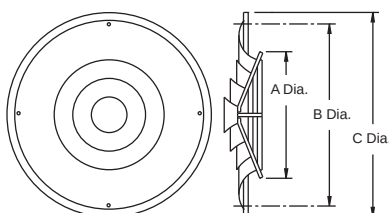
Square Inlet Grille - ACW



Unit Size	Catalog Number	A Sq.	Wall Opening	Damper	
				Model	Size
70	SG-8	10	8	BD-8	7-3/4
90-101	SG-10	12	10	BD-10	9-3/4
120-135	SG-12	14	12	BD-12	11-3/4
150-165	SG-16	18	16	BD-16	15-3/4
180-195	SG-20	22	20	BD-20	19-3/4
210-245	SG-24	26	24	BD-24	23-3/4

All dimensions in inches.

Round Inlet Grille - ACW



Unit Size	Catalog Number	A Dia.	B Dia. Mtg. Hole	C Dia.
70	G-8	7-3/4	8-1/2	12
90-101	G-10	9-13/16	10-9/16	14
120-135	G-12	11-13/16	12-9/16	16
150-165	G-14	13-13/16	14-9/16	18
180	G-18	17-13/16	21-3/4	23

All dimensions in inches.

Roof Cap Dimensions

Gemini Series	Model No.	Type	A	B	C	Throat Dia.
122-520	PR8	Curb Mount	18-1/4	10-1/8	18	8-19/32
	PR8F	Flat Base	18-1/4	8-1/8	18	8-19/32
620-740	PR12	Curb Mount	28-1/4	10-5/16	20	12-1/2
	PR12F	Flat Base	28-1/4	8-5/16	20	12-1/2
822-960	PR16	Curb Mount	28-1/4	12-5/8	28	16-1/2
	PR16F	Flat Base	28-1/4	10-5/8	28	16-1/2
1000-2000	PR20	Curb Mount	36-1/2	13-5/8	32	20-1/2
	PR20F	Flat Base	36-1/2	11-5/8	32	20-1/2

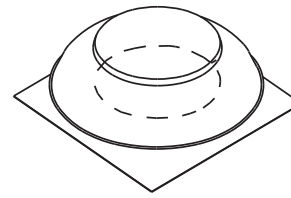
All dimensions in inches.

Standard Construction Features - All aluminum construction, anti-backdraft flange.

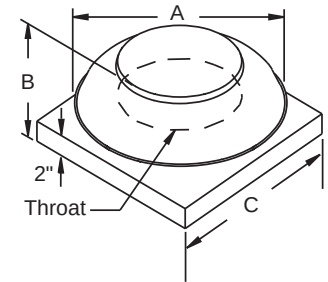
Available with optional birdscreen.

PR8F, PR12F and PR20F mount directly on the roof with integral flashing. PR8,

PR12, PR16 and PR20 are curb mount.



Roof Cap - Flat Base

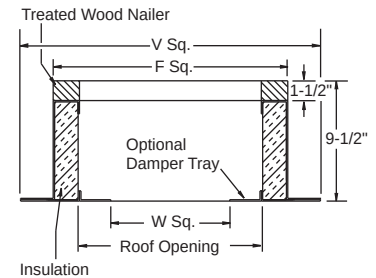


Roof Cap - Curb Mount

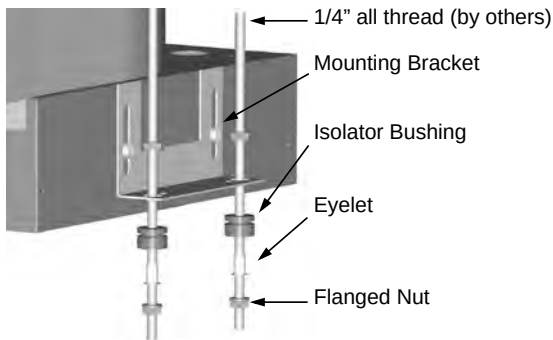
Roof Curb Dimensions

Roof Cap Model No.	Curb Catalog Number (Galvanized)	F Sq.	V Sq.	W Sq.	Roof Opening
PR8	RCG-16	16-1/2	20-1/2	9-3/4	13-1/2
PR8F					
PR12	RCG-18	18-1/2	22-1/2	11-3/4	15-1/2
PR12F					
PR16	RCG-26	26-1/2	30-1/2	19-3/4	23-1/2
PR16F					
PR20	RCG-30	30-1/2	34-1/2	23-3/4	27-1/2
PR20F					

All dimensions in inches. Gravity dampers are not recommended with the Gemini fans. Motorized dampers are available, by consulting factory. Sound curbs available. Contact factory for dimensions.



Gemini Hanging Isolator Kit



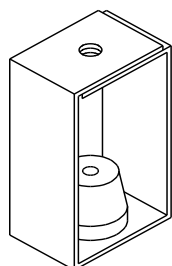
GIK before assembly

The Gemini Hanging Isolator Kit is used for Gemini ceiling and inline units 122 through 740. Bushings are made of resilient thermoplastic. The bushings and eyelets are sized to be used with common 1/4" x 20 all thread. Standard Gemini mounting brackets easily accommodate the isolator bushings. Flanged nuts eliminate the need for additional washers and provide for a more simplified field assembly.

GIK Data

Gemini Series	Rated Load
122-740	160 lbs.

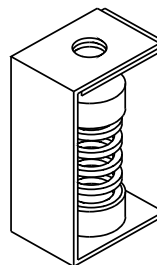
Rubber In Shear Isolator



RIS Data

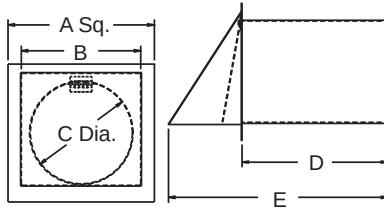
Unit	Rated Load
RC 75	75 lbs.

Spring Isolator - Ceiling Mounted



Unit	Rated Load (lbs.)	Spring Rate (lbs./in.)
SC-35	35	23
SC-70	70	51

Round Duct Wall Cap with Damper

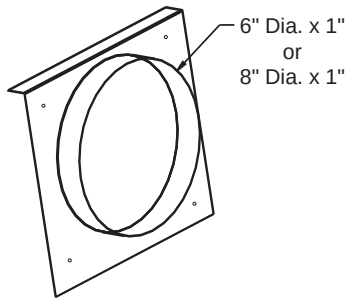


Round Duct Wall Cap w/ Damper Dimensions

Size	Gemini Series	Model No.	A Sq.	B	C Dia.	D	E
6	122-340	WCR6-Alum.	8	7	6	8-1/2	12-3/4
8	220-520	WCR8-Alum.	10	9	8	8-1/2	14-1/4

All dimensions in inches. Standard construction features - Corrosion resistant aluminum with integral aluminum backdraft damper.

Round Duct Adapter



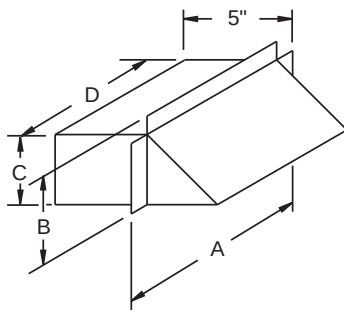
The Gemini 200-500 can be field converted from a rectangular outlet to a round outlet by removing the rectangular damper frame and replacing it with the round duct adaptor.

Round Duct Adapter Dimensions

Gemini Series	Model No.	Duct Diameter
200-300	RDA-6	6
200-500	RDA-8	8

All dimensions in inches.

Wall Cap

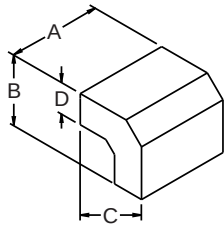


Wall Cap Dimensions

Gemini Series	Model No.		A	B	C	D
	Galv.	Alum.				
220-520	WCG-2	WCA-2	10-5/16	7-3/16	6-3/8	8-5/16
620-740	WCG-6	WCA-6	12-13/16	6	5	10-13/16
822-860	WCG-8	WCA-8	22-5/16	7-3/16	6-3/16	20-5/16
920-960	WCG-9	WCA-9	26-9/16	7-15/16	6-15/16	24-9/16

All dimensions in inches. Standard Construction Features - Corrosion resistant galvanized steel or aluminum, 1/2" birdscreen.

Eave Elbow

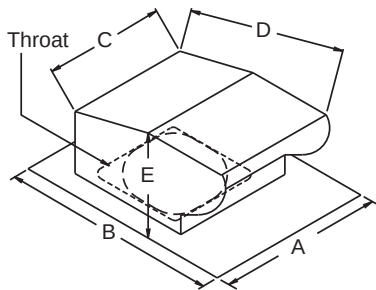


Eave Elbow Dimensions

Gemini Series	Type	Model No.	A	B	C	D
220-520	Short Eave	SE 2	8-1/8	12-1/4	12-1/4	6-1/8
220-520	Long Eave	LE 2	8-1/8	15-1/2	14	6-1/8

All dimensions in inches.

Roof Jack



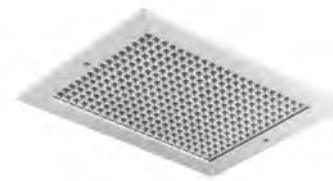
Roof Jack Dimensions

Gemini Series	Model No.	A	B	C	D	E	Throat Size
122-184	RJR100	14-1/4	18-3/4	10-3/8	14-1/2	6-1/2	6 Dia.
220-520	RJ200	14-1/4	18-3/4	10-3/8	14-1/2	6-1/2	10-1/4 X 10-3/4

All dimensions in inches.

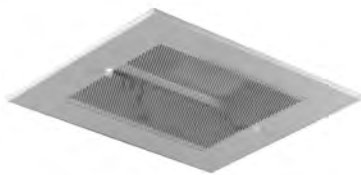
Standard Construction Features - Corrosion resistant galvanized steel with black baked enamel finish, 1/2" birdscreen. Optional Roof Jack Adapter is available for the RJ200. The Roof Jack Adapter is a transition from the Gemini Fan to the Roof Jack. The RJR100 has an integral 6 inch round adapter for ease of installation of duct.

Deluxe Aluminum Grille



Loren Cook Company offers aluminum grilles for Gemini fans in an attractive, architectural style. These grilles are available in painted white or aluminum finish. Deluxe aluminum grille not available on GC-1000 or GC-2000 units.

Steel Grille



A painted steel grille is available for the 100 and 200 series fan that provides additional coverage for a ceiling radiation damper or whenever a steel grille is desired for cosmetic reasons.

Fan Speed Control

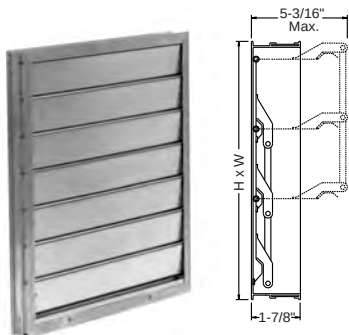


Models
122 - 862

Models
920 - 2000

Cook's FSC is a variable speed controller which can offer excellent energy conservation and lower sound levels when 100 percent of a direct drive fan operating capacity is not required. The FSC employs solid state circuitry for long life and dependability. The FSC is available only on 115V and 230V shaded pole or permanent split capacitor direct drive motors and is not available on 1140 RPM and 1725 RPM motors. The FSC is normally shipped loose for field installation. Optional pre-wiring is available.

Automatic Backdraft Damper for DB



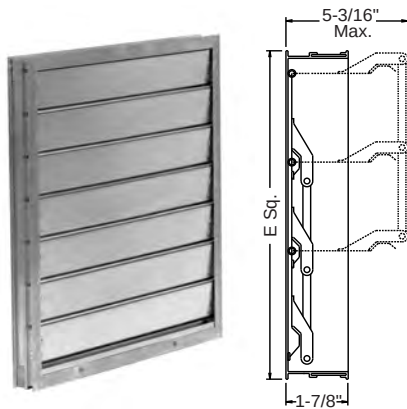
Automatic Backdraft Dampers feature an extruded aluminum frame, aluminum blades and aluminum hinge pins with nylon bushings. These dampers are shipped loose for field installation.

Size	H x W
8	7-7/8 x 9-1/4
9	10-5/16 x 11-7/8
10	11-3/8 x 13-1/8
13	13-7/16 x 15-5/8
15	15-7/8 x 18-5/8
18	18-7/8 x 21-7/8

All dimensions in inches.

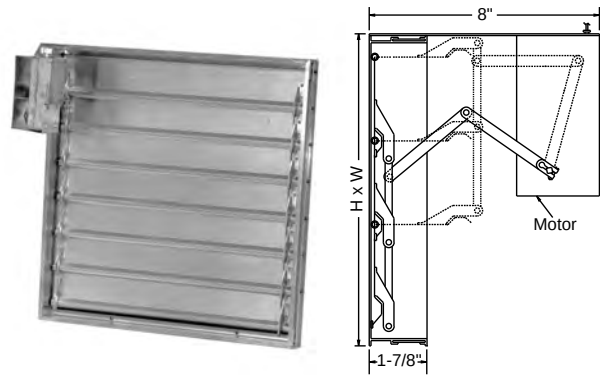
ACCESSORIES

Automatic Backdraft Damper



Automatic Backdraft Dampers feature an extruded aluminum frame, aluminum blades and aluminum hinge pins with nylon bushings. These dampers are shipped loose for field installation.

Motorized Backdraft Damper



Motorized Backdraft Dampers feature an extruded aluminum frame, aluminum blades and aluminum hinge pins with nylon bushings. These dampers are shipped loose for field installation.

Damper dimensions

Size	E-Sq.				
	SQI-B/ SQI-HP	SQI-D	SQN-B	SQN-HP	SQN-D
60	-	-	11-3/4	-	-
70	-	9-7/8	11-3/4	-	9-3/4
80	-	12-3/4	11-3/4	-	-
90	14-3/16	14-3/16	-	-	11-3/4
100	-	-	11-3/4	-	11-3/4
120	17-1/8	17-1/8	15-3/4	-	15-3/4
135	19-3/8	19-3/8	17-3/4	17-3/4	17-3/4
150	21-3/8	21-3/8	19-3/4	19-3/4	19-3/4
165	23-9/16	23-9/16	21-3/4	21-3/4	21-3/4
180	25-3/4	-	23-3/4	23-3/4	-
195	27-15/16	-	25-3/4	25-3/4	-
210	30-1/8	-	27-3/4	27-3/4	-
225	32-1/4	-	29-3/4	29-3/4	-
245	35-1/8	-	32-3/4	32-3/4	-
270	38-3/4	-	36-3/16	36-3/16	-
300	43-1/8	-	39-3/4	39-3/4	-
330	47-3/8	-	43-3/4	43-3/4	-
365	52-1/2	-	45-3/4	45-3/4	-
402	58-1/4	-	50-1/2	50-1/2	-

All dimensions in inches.

Belt Guard

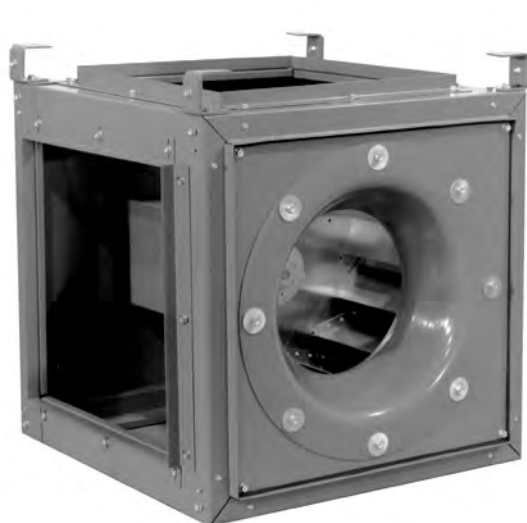


Belt guards are available which cover the drive assembly on the top, front and sides. The belt guard is constructed of minimum 18 gauge galvanized steel and has an open back which allows inspection and belt tensioning without removing the guard. Belt guards are factory installed.

SQL Single Side Discharge Package - The Single Side Discharge Package consists of a side duct connection collar and a rear discharge block-off panel. This configuration allows air to exit from any one of the non-motor sides of the unit and provides tremendous versatility in installation. The rear discharge block-off panel is shipped installed on the unit and the side duct connection collar is shipped loose for field installation in place of any one of the three access doors utilizing existing bolts in the fan. The tables below indicate the percent change in performance when using the side discharge option. See the following page for some examples of typical installations.



SQL Dual Side Discharge Package - The Dual Side Discharge Package is identical to the Single Side Discharge Package with the exception that two sets of duct connection collars are provided.



SQL Side Discharge Correction Factors

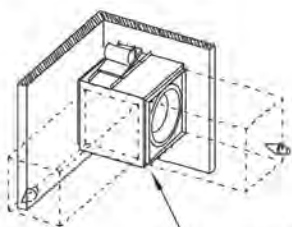
Size	SQL-B				SQL-HP			
	Single		Dual		Single		Dual	
	CFM	HP	CFM	HP	CFM	HP	CFM	HP
60	+3%	+3%	+3%	-3%	-3%	+5%	0%	-2%
70	+2%	+2%	+3%	-3%	-3%	+5%	0%	-2%
80	+2%	+2%	+3%	-4%	-3%	+5%	0%	-3%
100	+1%	+2%	+3%	-5%	-3%	+5%	0%	-3%
120	+1%	+1%	+4%	-6%	-2%	+4%	+1%	-4%
135	+1%	+1%	+4%	-7%	-2%	+4%	+1%	-4%
150	+1%	+1%	+4%	-9%	-1%	+2%	+1%	-4%
165	0%	0%	+4%	-10%	0%	0%	+1%	-5%
180	0%	0%	+5%	-12%	+1%	0%	+2%	-6%

Size	SQL-B				SQL-HP			
	Single		Dual		Single		Dual	
	CFM	HP	CFM	HP	CFM	HP	CFM	HP
195	+1%	0%	+5%	-12%	+1%	0%	+2%	-6%
210	+1%	-1%	+5%	-12%	+1%	0%	+2%	-6%
225	+2%	-1%	+6%	-12%	+1%	+1%	+3%	-7%
245	+2%	-2%	+6%	-12%	+1%	+1%	+3%	-7%
270	+2%	-2%	+6%	-13%	+1%	+1%	+3%	-7%
300	+3%	-2%	+7%	-13%	+2%	+2%	+4%	-8%
330	+3%	-2%	+7%	-13%	+2%	+2%	+4%	-8%
365	+3%	-3%	+7%	-13%	+2%	+2%	+4%	-8%
402	+3%	-3%	+7%	-13%	+2%	+2%	+4%	-8%

Size	SQL-D			
	Single		Dual	
	CFM	HP	CFM	HP
70	-5%	+4%	+8%	+6%
90	-4%	+3%	+8%	+5%
100	-4%	+3%	+8%	+4%
120	-3%	+2%	+9%	+3%
135	-2%	+1%	+9%	+2%
150	-2%	+1%	+9%	+1%
165	-1%	0%	+10%	0%

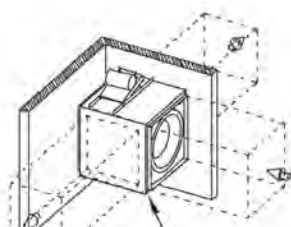
The factors indicate the percent change in performance that will occur when using these side discharge options. AMCA certified ratings seal does not apply when these factors are used.

Typical Side Discharge Applications



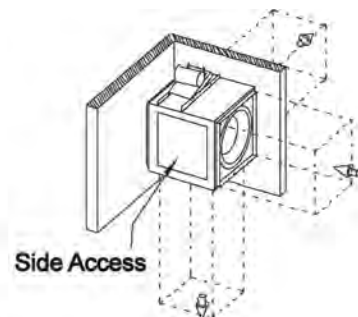
Bottom Access

Example 1



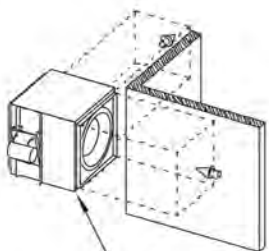
Bottom Access

Example 2



Side Access

Example 3



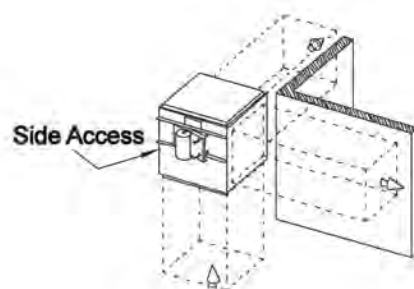
Bottom Access

Example 4



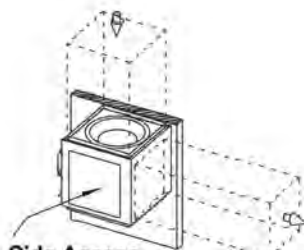
Side Access

Example 5



Side Access

Example 6



Side Access

Example 7



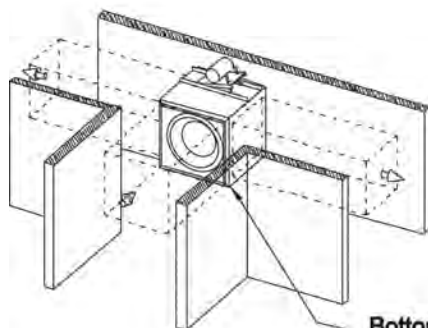
Side Access

Example 8



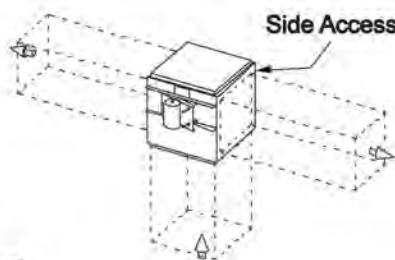
Side Access

Example 9



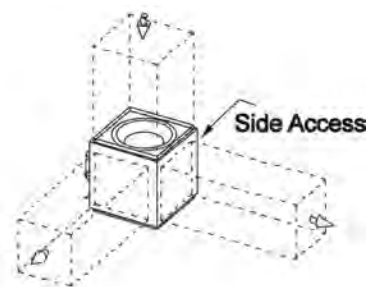
Bottom Access

Example 10



Side Access

Example 11



Side Access

Example 12

Disconnect Switches

NEMA 1 - Indoor general purpose.

NEMA 1 (Lockable) - Indoor general purpose with locking capability.

NEMA 4 - Watertight and dust-tight.



NEMA 1



**NEMA 1
(lockable)**



NEMA 4

Fan Speed Control



Cook's FSC is a variable speed controller which can offer excellent energy conservation and lower sound levels when 100 percent of a direct drive fan operating capacity is not required. The FSC employs solid state circuitry for long life and dependability. The FSC is available only on 115V and 230V shaded pole or permanent split capacitor direct drive motors and is not available on 1140 RPM and 1725 RPM motors. The FSC is normally shipped loose for field installation. Optional pre-wiring is available.

Additional Accessories - Reinforced Wheel (SQN, SQI), Safety Screen (Inlet, Outlet) (SQN, SQI)

Disconnect Switches

NEMA 1 - Indoor general purpose.

NEMA 1 (Lockable) - Indoor general purpose with locking capability.

NEMA 3R - Exterior mount, rain-tight.

NEMA 4 - Watertight and dust-tight.



NEMA 1



**NEMA 1
(lockable)**

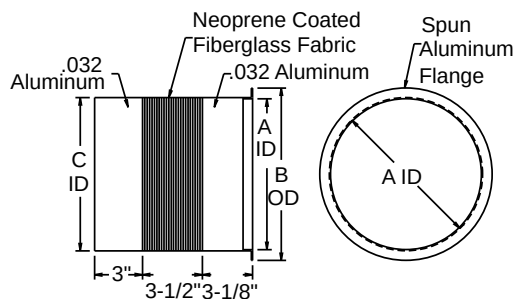


NEMA 3R



NEMA 4

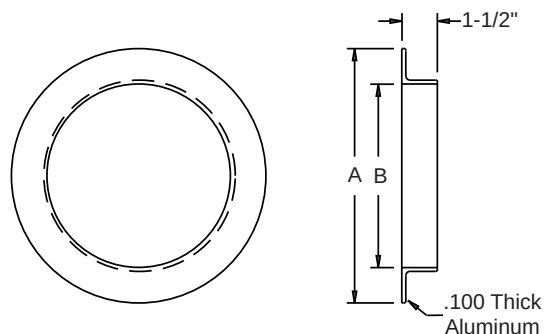
Flexible Duct Connector



Size	A	B	C
8	8-3/16	10-11/16	8-1/2
10	10-3/16	12-11/16	10-1/2
12	12-3/16	14-11/16	12-1/2
14	14-3/16	16-11/16	14-1/2
16	16-3/16	18-11/16	16-1/2
18	18-3/16	20-11/16	18-1/2
20	20-3/16	22-11/16	20-1/2

All dimensions in inches.

Companion Flange

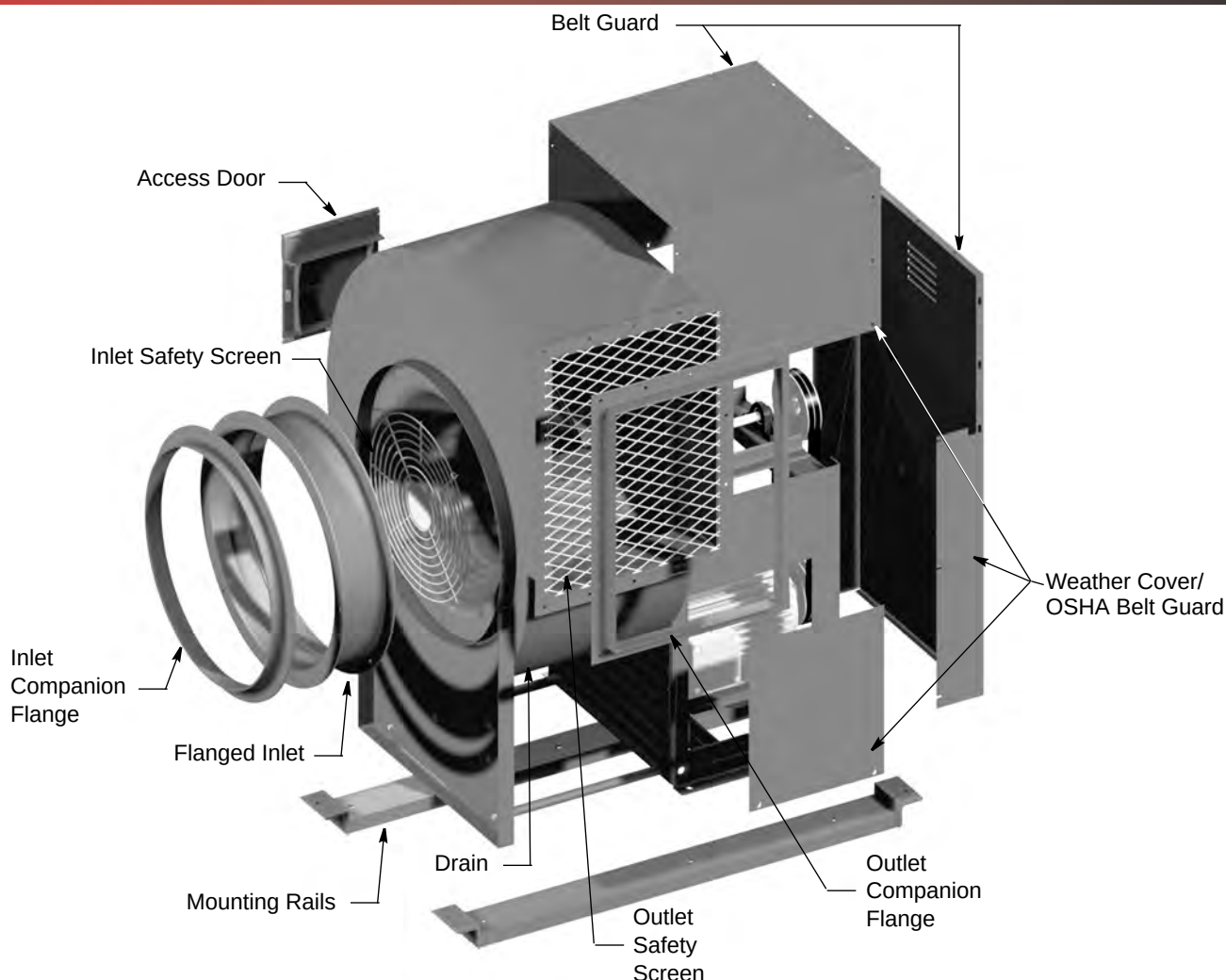


Size	A	B
8	10-11/16	8-3/16
10	12-11/16	10-3/16
12	14-11/16	12-3/16
14	16-11/16	14-3/16
16	18-11/16	16-3/16
18	20-11/16	18-3/16
20	22-11/16	20-3/16

All dimensions in inches.

Additional Accessories:

- Safety Screen Inlet or Outlet
- Weather Cover
- Belt Guard



Access Door

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

Inlet/Outlet Safety Screens

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

Flanged Inlet

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

Inlet/Outlet Companion Flange

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

Belt Guard

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

Weather Cover/OSHA Belt Guard

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

Shaft Cooler

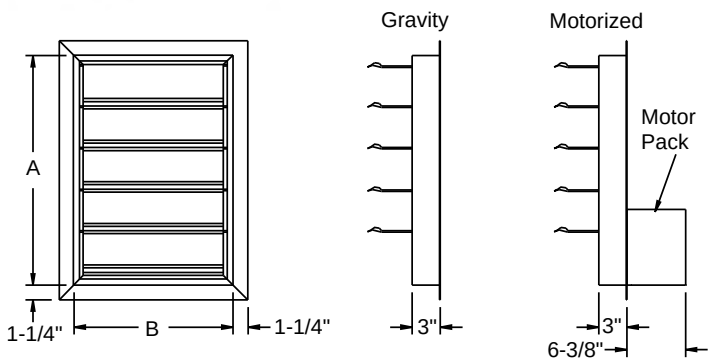
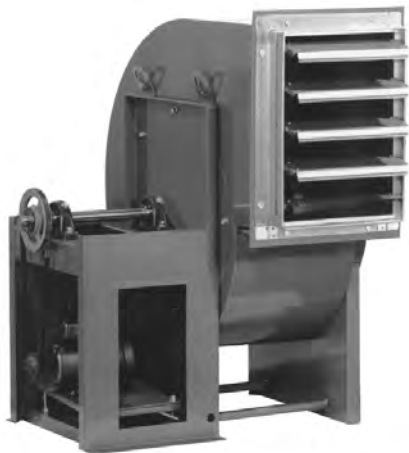
The shaft cooler is an aluminum casting with radial vanes which is mounted on the shaft between the inboard bearing and the fan mounting panel. The shaft cooler is designed to dissipate heat which is conducted along the shaft and prevents excessive bearing temperatures. A shaft cooler is required for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

Drain

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

Additional

- Shaft seal
- Rub



Galvanized Shutters

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

CP Galvanized Shutter Dimensions

Unit Size	Shutter Model No.		A	B
	Gravity	Motorized		
60-100	ASDG-100	MDSG-100	10-15/16	7-9/16
120	ADSG-120	MDSG-120	13-1/8	9-3/16
135	ADSG-135	MDSG-135	14-3/4	10-5/16
150	ADSG-150	MDSG-150	16-7/16	11-7/16
165	ADSG-165	MDSG-165	18-1/16	12-5/8
180	ADSG-180	MDSG-180	19-11/16	13-3/4
195	ADSG-195	MDSG-195	21-5/16	14-15/16
210	ADSG-210	MDSG-210	23	16-1/16
225	ADSG-225	MDSG-225	24-5/8	17-3/16
245	ADSG-245	MDSG-245	26-13/16	18-3/4
270	ADSG-270	MDSG-270	29-9/16	20-5/8
300	ADSG-300	MDSG-300	32-13/16	22-15/16

All dimensions in inches.

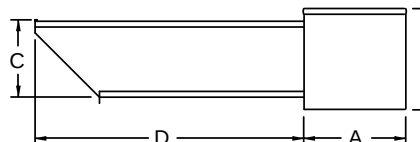
*Typically attached to discharge flange; however, may be shipped loose.

Additional Accessory

Reinforced Wheel (CPV) -

Reinforced wheels are available on the CPV to allow operation at higher RPM. Reinforced wheels are required for operation in the shaded areas of the performance tables.

Intake Extension



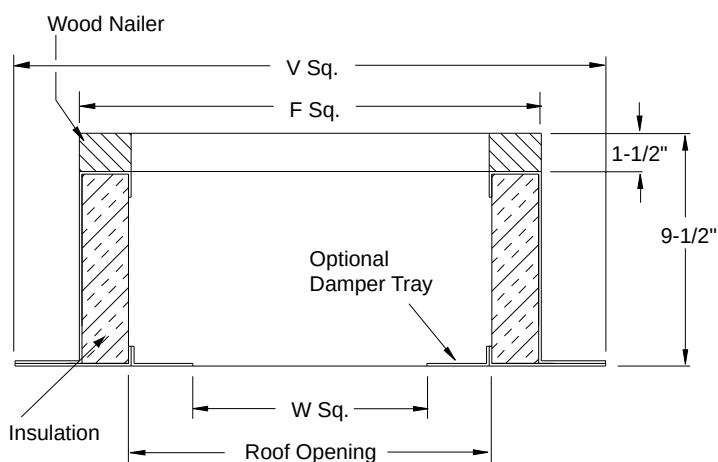
The KSP Intake Extension is available for all sizes. Constructed of heavy gauge galvanized steel, the extension must be supported at the intake end by an equipment support. Filters are installed at the intake end as in the standard unit.

An optional backdraft damper can be installed in the intake extension (See Page 8 of the KSP Catalog). A KSP with an intake extension is required for NFPA 96 installations where physical limitations of the roof permit its usage.

Model	A Sq.	B	C (HxW)	D
90 KSPB	24-3/16	24	18 X 18-1/4	92-1/2
100 KSPB	28-3/16	27	21 X 22-1/4	80-5/8
120 KSPB	32-3/16	32-1/4	26-3/16 X 26-1/2	80
150 KSPB		37-3/8	31-5/16 X 28-1/2	80-5/16
180 KSPB	36-3/16	41-7/16	35-7/16 X 30-1/4	73-5/16
200 KSPB	48-3/16	49-7/16	37-7/16 X 42-1/4	54-5/16

All dimensions in inches.

Roof Curb



Standard Construction Features

- 18 gauge galvanized steel (RCG) or .080 aluminum (RCA).
- 1-1/2", 3 lbs. density thermal and acoustical insulation.
- Continuously welded corners.
- Wood nailer.

Options

- No wood nailer (deduct 1-1/2" from height).
- 13-1/2" tall construction.

Roof Curb

KSP Unit	Catalog Number Galvanized	F Sq.	V Sq.	W Sq.	Roof Opening
90	RCG-22	22-1/2	26-1/2	15-3/4	19-1/2
100	RCG-26	26-1/2	30-1/2	19-3/4	23-1/2
120, 150	RCG-30	30-1/2	34-1/2	23-3/4	27-1/2
180	RCG-34	34-1/2	38-1/2	27-3/4	31-1/2
200	RCG-46	46-1/2	50-1/2	39-3/4	43-1/2

All dimensions in inches.

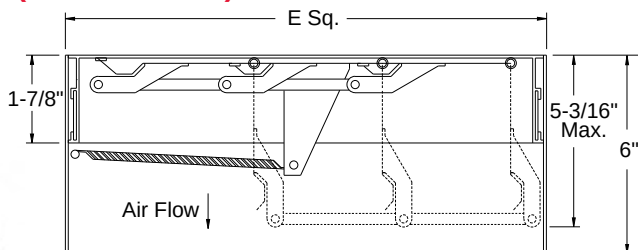
Dampers

Loren Cook Intake Backdraft Dampers (BDI) and Motorized Intake Backdraft Dampers (BDMI) feature extruded aluminum frames, aluminum blades and aluminum hinge pins with nylon bushings.

The Intake Backdraft Damper features a spring return for closing. Maximum operating temperature is 200°F (95°C).

Motors on Motorized Intake Backdraft Dampers are non-overloading type available in 115, 230, or 460 voltage, single phase. Size 200 KSP (BDMI-42) uses two motors. In addition, a wood nailer must be supplied on a 9-1/2 inch curb. Maximum operating temperature is 130°F (50°C).

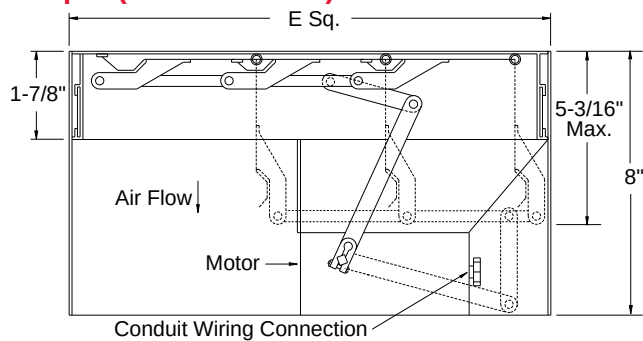
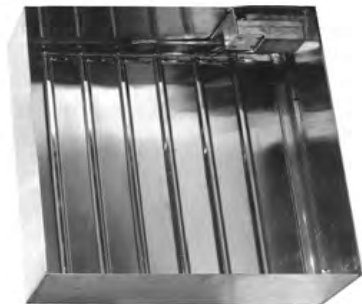
Intake Backdraft Damper (Curb Mounted)



KSP Unit Size	Catalog Number	E. Sq.
90	BDI-18	17-3/4
100	BDI-22	21-3/4
120, 150	BDI-26	25-3/4
180	BDI-30	29-3/4
200	BDI-42	41-3/4

All dimensions in inches.

Motorized Intake Backdraft Damper (Curb Mounted)



KSP Unit Size	Catalog Number	E. Sq.
90	BDMI-18	17-3/4
100	BDMI-22	21-3/4
120, 150	BDMI-26	25-3/4
180	BDMI-30	29-3/4
200	BDMI-42	41-3/4

All dimensions in inches.

Disconnect Switches

NEMA 1 - Indoor, general purpose

NEMA 1 (Lockable) - Indoor, general purpose with lockable switch

NEMA 3R - Exterior mount, weather resistant

NEMA 4 - Water tight, dust tight



NEMA 1



NEMA 1
(Lockable)



NEMA 3R



NEMA 4

Additional Accessories - Replacement Filters (KSP); Duct Adaptor

Standard and Heavy Duty Aluminum Shutter



Heavy Duty

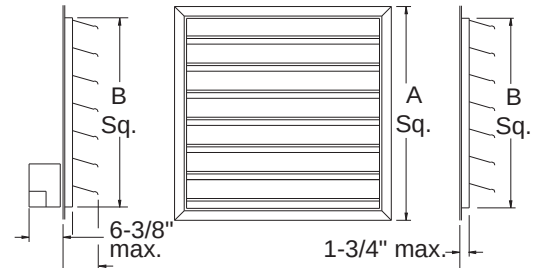


Standard Duty

Motorized

Gravity

.051" Mounting Frame Thickness

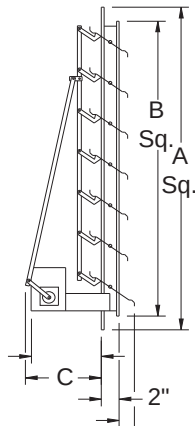


Blade Thickness .020" standard, .050" heavy duty

Size				Model Number		Max. CFM for Std. Duty	A	B	No. of Panels	No. of Motor Packs
XWD XWHD	X.STREAM Series	A Series	E Series	Std. Duty	Hvy. Duty					
8	-	-	-	GSS-10	-	-	13	10-3/8	1	1
10-12	-	12	-	GSS-14	-	-	17	14-3/8	1	1
14-16	-	16	-	GSS-18	-	-	21	18-3/8	1	1
18-20	20	20	-	GSS-22	-	-	25	22-3/8	1	1
24	24	24	-	GSS-27	GSH-27	10125	30	27-3/8	1	1
-	30	30	24	GSS-33	GSH-33	15125	36	33-3/8	1	1
-	36	36	30	GSS-39	GSH-39	21125	42	39-3/8	1	1
-	42	42	36	GSS-45	GSH-45	28125	48	45-3/8	1	1
-	48	48	42	-	GSH-51	-	54	51-3/8	2	2
-	54	-	48	-	GSH-57	-	60	57-3/8	2	2
-	60	-	54	-	GSH-63	-	66	63-3/8	2	2
-	-	-	60	-	GSH-69	-	72	69-3/8	2	2
-	-	-	72	-	GSH-81	-	84	8-3/8	2	2

All dimensions in inches.

Motorized Intake Shutter



Size				Model Number	A	B	C	No. of Panels	No. of Motor Packs
XWD XWHD	X.STREAM Series	A Series	E Series						
8	-	-	-	MIC-10	13	10	7-7/8	1	1
10-12	-	12	-	MIC-14	17	14	7-7/8	1	1
14-16	-	16	-	MIC-18	21	18	7-7/8	1	1
18-20	20	20	-	MIC-22	25	22	7-7/8	1	1
24	24	24	-	MIC-27	30	27	7-7/8	1	1
-	36	36	30	MIC-39	42	39	7-7/8	2	1
-	42	42	36	MIC-45	48	45	7-7/8	2	1
-	48	48	42	MIC-51	54	51	9-1/4	2	1
-	54	-	48	MIC-57	60	57	9-1/4	2	1
-	60	-	54	MIC-63	66	63	9-1/4	3	3
-	-	-	60	MIC-69	72	69	9-1/4	3	3
-	-	-	72	MIC-81	84	81	9-1/4	3	3

All dimensions in inches.

Propeller Wall

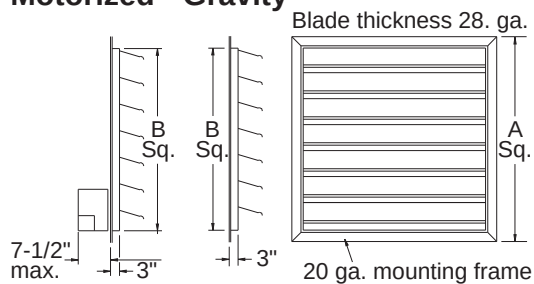
Heavy Duty Galvanized Shutter



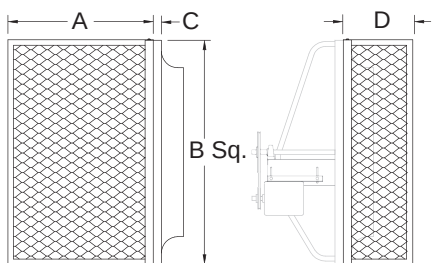
Size				Model Number	A	B	C	No. of Panels	No. of Motor Packs
XWD	X.STREAM Series	A Series	E Series						
8	-	-	-	GSG-10	12-1/2	10	1	1	1
10-12	-	12	-	GSG-14	16-1/2	14	1	1	1
14-16	-	16	-	GSG-18	20-1/2	18	1	1	1
18-20	20	20	-	GSG-22	24-1/2	22	1	1	1
24	24	24	-	GSG-27	30	27-1/2	1	1	1
-	30	30	24	GSG-33	36	33-1/2	1	1	1
-	36	36	30	GSG-39	42	39-1/2	1	1	1
-	42	42	36	GSG-45	48	45-1/2	2	2	1
-	48	48	42	GSG-51	54	51-1/2	2	2	1
-	54	-	48	GSG-57	60	57-1/2	2	2	1
-	60	-	54	GSG-63	66	63-1/2	2	2	3
-	-	-	60	GSG-69	72	69-1/2	4	4	2
-	-	-	72	GSG-81	84	81-1/2	8	8	4

All dimensions in inches.

Motorized Gravity



Wire Guard



Size				A	B	C	D	Wall Opening
XWD	X.STREAM Series	A Series	E Series					
8*	-	-	-	12-9/16	13-1/16	1	12-9/16	13-1/4
10-12*	-	12*	-	12-9/16	17	1	12-9/16	17-1/4
14-16*	-	16*	-	12-9/16	21	1	12-9/16	21-1/4
18-20*	-	20*	-	12-9/16	25	1	12-9/16	25-1/4
24*	-	-	-	12-9/16	31	1-1/2	12-9/16	31-5/16
-	20*	-	-	20-9/16	25	1	12-9/16	25-1/4
-	24*	24*	-	20-9/16	31	1-1/2	12-9/16	31-5/16
-	30*	30*	24*	20-9/16	37	1-1/2	12-9/16	37-5/16
-	36*	36*	30*	20-9/16	43	1-1/2	12-9/16	43-5/16
-	42*	42*	36*	25-9/16	49	1-1/2	12-9/16	49-3/8
-	48**	48**	42**	28-7/16	55	1-1/2	13-7/16	55-3/8
-	54**	-	48**	28-7/16	61	1-1/2	13-7/16	61-7/16
-	60**	-	54**	28-7/16	67	1-1/2	13-7/16	67-7/16
-	-	-	60**	28-7/16	73	1-1/2	13-7/16	73-7/16
-	-	-	72**	30-9/16	85	1-1/2	13-7/16	85-7/16

All dimensions in inches. *Dimensioned to speedscrew. **Dimensioned to mullion.

Disconnect Switches

NEMA 1 - Indoor general purpose.

NEMA 1 (Lockable) - Indoor general purpose with locking capability.

NEMA 3R - Exterior mount, rain-tight.

NEMA 4 - Water-tight and dust-tight.



NEMA 1



**NEMA 1
(Lockable)**



NEMA 3R



NEMA 4

Fan Speed Control

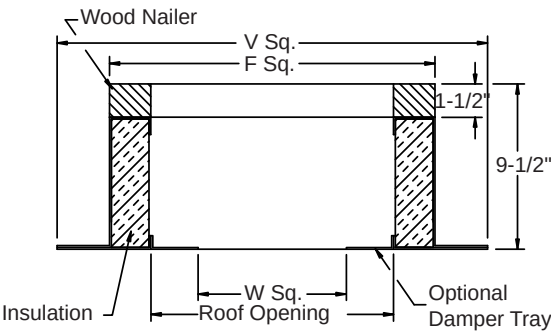


5 AMP FSC

10 AMP FSC

Cook's FSC is a variable speed controller which allows operation of SWD/SPD units from 100 percent of capacity down to approximately 50 percent. The FSC can offer excellent energy conservation and lower sound levels when 100 percent operation is not required. The FSC employs solid state circuitry for long life and dependability. The FSC is available only on 115V shaded pole or permanent split capacitor motors and is not available on 1140 RPM and 1725 RPM motors. The FSC is normally shipped loose for field installation. Optional pre-wiring available.

Roof Curb



Unit	Cat. No.	F Sq.	V Sq.	W Sq.	Roof Opening
20	RCG-30	30-1/2	34-1/2	23-3/4	27-1/2
24	RCG-34	34-1/2	38-1/2	27-3/4	31-1/2
30	RCG-40	40-1/2	44-1/2	33-3/4	37-1/2
36	RCG-46	46-1/2	50-1/2	39-3/4	43-1/2
42	RCG-52	52-1/2	56-1/2	45-3/4	49-1/2
48	RCG-58	58-1/2	62-1/2	51-3/4	55-1/2
54	RCG-64	64-1/2	68-1/2	57-3/4	61-1/2
60	RCG-70	70-1/2	74-1/2	63-3/4	67-1/2
72	RCG-82	82-1/2	86-1/2	75-3/4	79-1/2

All dimensions in inches.

Disconnect Switches

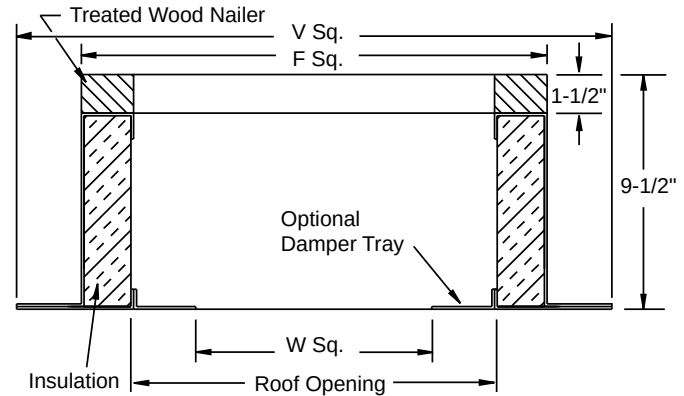
NEMA 3 - Exterior mount, rain-tight.
NEMA 4 - Watertight and dust-tight.



NEMA 4

NEMA 3

Curbs



Curb Construction Features

- Minimum 18 gauge galvanized steel (RCG) or .080 aluminum (RCA).
- 1-1/2", 3 lbs. density thermal and acoustical insulation.
- Continuously welded corners.

Options

- Damper tray.
- No wood nailer (deduct 1-1/2" from height).
- 13-1/2" tall construction.

GI/GR Curb Sizing - The curb size for a unit is found by adding 4" to each dimension of the throat size. For a 24 x 30 GI, the appropriate galvanized curb would be a RCG 28 x 34. Additional information can be found in **LOREN COOK** submittals.

PR/TR/LSUG Curb Dimensions

PR/TR	LSUG	Catalog Number (Galvanized)	F Sq.	V Sq.	W Sq.	Roof Opening
8	-	RCG-16	16-1/2	20-1/2	9-3/4	13-1/2
12	-	RCG-18	18-1/2	22-1/2	11-3/4	15-1/2
16	-	RCG-26	26-1/2	30-1/2	19-3/4	23-1/2
20	-	RCG-30	30-1/2	34-1/2	23-3/4	27-1/2
24	24	RCG-34	34-1/2	38-1/2	27-3/4	31-1/2
30	30	RCG-40	40-1/2	44-1/2	33-3/4	37-1/2
36	36	RCG-46	46-1/2	50-1/2	39-3/4	43-1/2
42	42	RCG-52	52-1/2	56-1/2	45-3/4	49-1/2
48	48	RCG-58	58-1/2	62-1/2	51-3/4	55-1/2
-	54	RCG-54	64-1/2	66-1/2	57-1/4	61-1/2
-	60	RCG-70	70-1/2	74-1/2	63-3/4	67-1/2

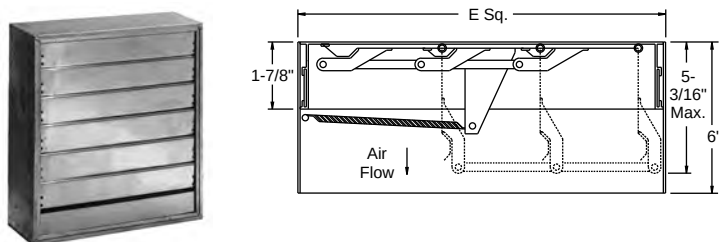
All dimensions in inches. When motor operated damper is used, a wood nailer is required. Sound curbs available for most sizes. Contact factory for dimensions.

Gravity Vents

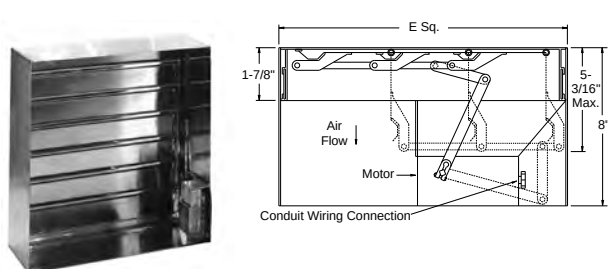
Dampers

Gravity dampers feature an extruded aluminum frame, aluminum blades and aluminum hinge pins with nylon bushings. Motorized dampers feature an extruded aluminum frame, aluminum blades and aluminum hinge pins with nylon bushings. Motors are shipped loose for field installation on motorized backdraft dampers (BDM). Motors are shipped installed on motorized intake backdraft dampers (BDMI). Available voltages include 115V, 220V and 440V.

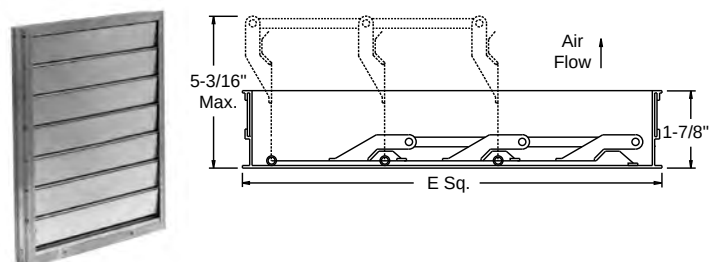
Intake Backdraft Damper



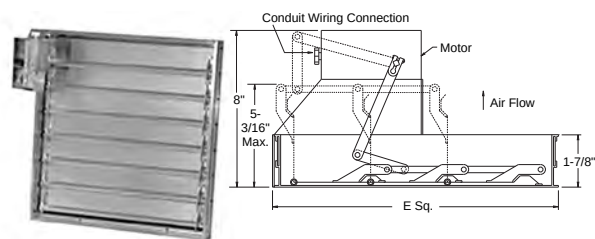
Motorized Intake Backdraft Damper



Gravity Backdraft Damper



Motorized Backdraft Damper



GI/GR Backdraft Damper Sizing - The length and width of the backdraft damper is 1/4" smaller than the length and width of the throat. The damper is designed to fit on the optional damper tray in the curb.

PR/TR	Catalog Number				E Sq.
	BDI*	BDMI**	BD***	BDM****	
8	BDI-12	BDMI-12	BD-12	BDM-12	11-3/4
12	BDI-14	BDMI-14	BD-14	BDM-14	13-3/4
16	BDI-22	BDMI-22	BD-22	BDM-22	21-3/4
20	BDI-26	BDMI-26	BD-26	BDM-26	25-3/4
24	BDI-30	BDMI-30	BD-30	BDM-30	29-3/4
30	BDI-36	BDMI-36	BD-36	BDM-36	35-3/4
36	BDI-42	BDMI-42	BD-42	BDM-42	41-3/4
42	BDI-48	BDMI-48	BD-48	BDM-48	47-3/4
48	BDI-54	BDMI-54	BD-54	BDM-54	53-3/4

All dimensions in inches.

*BDI - Maximum operating temperature is 200° F (95° C).

**BDMI - Motors are available in 110V, 220V, or 440V, single phase. BDMI-36 and larger use two motors. Maximum operating temperature is 130° F (50° C). Wood nailer must be supplied on 9-1/2" tall curb.

***BD - Maximum operating temperature is 200° F (95° C). BD-36 to BD-66 are shipped as two panels. BD-78 is shipped as three panels.

****BDM - Maximum operating temperature is 130° F (50° C). Wood nailer must be supplied on 9-1/2" tall curb. Motors are available in 110V, 220V, or 440V, single phase. BDM-36 and larger use two motors.



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