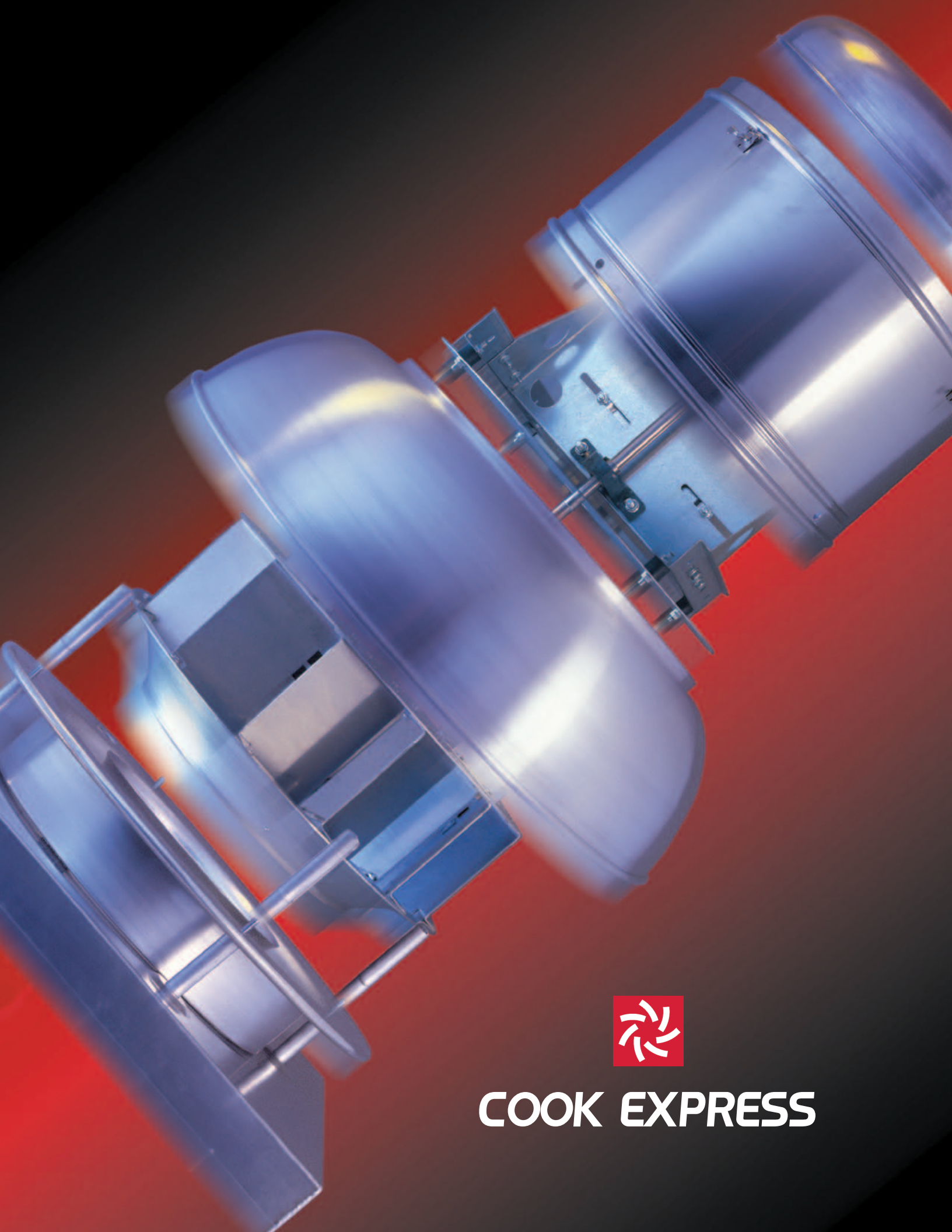
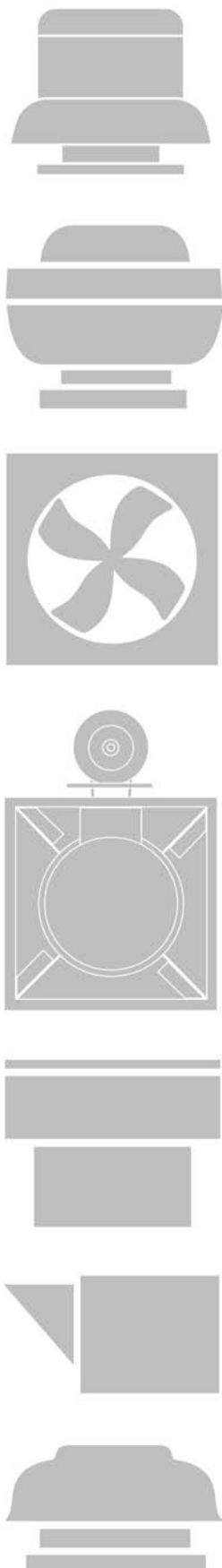




COOK EXPRESS



EXPRESS

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ACED Specifications and Dimension Data

Downblast Centrifugal
Exhaust Ventilator
Roof Mounted
Direct Drive

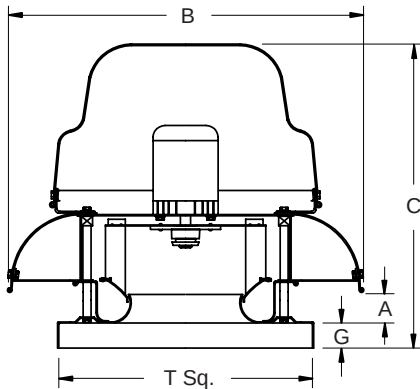


Loren Cook Company certifies that the ACED shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

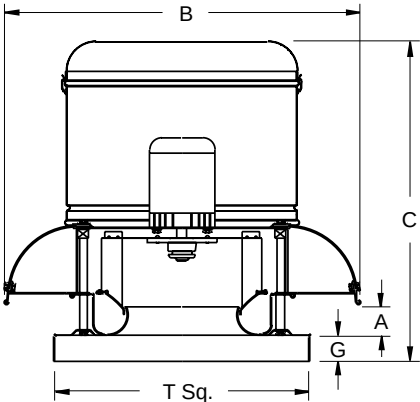


Type ACED is furnished standard with UL 705 and cUL 705 listings (Power Ventilator/ZACT).

Sizes 70 - 100



Sizes 120 - 180



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 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 204-96, 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 ACED as manufactured by Loren Cook Company of Springfield, Missouri.

ACED Dimension Data

Size	A	B	C	G	T 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
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	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	113	71																				
					4.3	3.2																				
70C10DM		1150	2105	73	158	94																				
					5.1	4.6																				
70C10DH		1050	1922	73	203	121																				
					3.0	2.9																				
70C15DL	1/20	1700	3112	86	171	131			113	91																
					5.5	5.0			4.8	4.7																
70C15DM		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		1050	2478	91	575	416			231																	
					5.0	5.1			4.7																	
90C15DL	1/8	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		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		1050	2751	99	663	511			353	191																
					5.9	6.0			5.5	5.4																
100C15DL	1/8	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		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												
120C10D	1/6	1075	3376	-	1152	1058			958	855																
					6.3 .08	6.2 .08			6.0 .09	5.7 .09																
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	2117	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							
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											
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												
					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 shown is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances in the airstream. Speed (RPM) shown for models 70 - 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 fan sone levels. *Motor is a 2-speed 1300/1550 RPM motor.

ACEB Specifications and Dimension Data

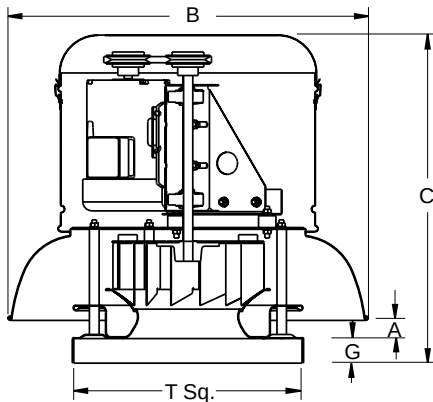
Downblast Centrifugal Exhaust Ventilator Roof Mounted Belt Drive



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

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

Bearings - Bearings shall be designed and 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, 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 ACEB as manufactured by Loren Cook Company of Springfield, Missouri.

ACEB Dimension Data

Size	A	B	C	G	T 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. *Roof opening size for curbs supplied by Loren Cook Company only. Weights in pounds, less motor.

60 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
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													
60C3B	1/4* 15 lbs.			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								
		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						
60C3B	15 lbs.	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				
60C3B	15 lbs.	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	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													
70C3B	1/4* 15 lbs.			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								
		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						
70C3B	15 lbs.	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				
70C3B	15 lbs.	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	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															
80C3B	1/4* 15 lbs.			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		381									
				10.9	.16	10.5	.16	10.1	.16	9.8	.16	9.5	.16	9.0	.16	8.5	.12								
		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								
80C3B	15 lbs.	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						
80C3B	15 lbs.	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 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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan 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
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													
100C3B	1/4* 15 lbs.			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							
		1752	4586	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							
				11.9	.16	11.9	.16	11.9	.16	11.7	.17	11.5	.18	11.4	.18	11.3	.18	11.2	.18						
	15 lbs.	1884	4932	1066		1017		972		931		890		842		782		700		509					
				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				
		1950	5105	1103		1056		1012		972		933		889		836		769		647					
				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				
	15 lbs.	2014	5272	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				

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

120 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
120C2B	1/6 15 lbs.	905	2843	970		857		737																	
				4.5	.05	4.4	.05	4.1	.05																
		987	3100	1057		955		846		698															
				5.4	.06	5.4	.06	5.1	.07	4.7	.07														
		1069	3358	1145		1051		951		846		341													
				6.5	.07	6.5	.08	6.2	.09	5.9	.09	5.5	.05												
		1151	3615	1233		1146		1053		961		831													
120C3B	1/4 15 lbs.			7.6	.09	7.6	.10	7.4	.11	7.0	.11	6.7	.11												
		1233	3873	1321		1240		1154		1067		974		787											
				8.9	.11	8.9	.12	8.7	.13	8.3	.14	8.0	.13	7.6	.13										
		1313	4124	1407		1331		1252		1169		1088		981		439									
				9.7	.14	9.7	.14	9.6	.15	9.4	.16	9.0	.16	8.6	.16	8.3	.10								
		1411	4432	1512		1441		1368		1292		1216		1137		1021		433							
				10.8	.17	10.8	.18	10.8	.18	10.6	.20	10.2	.20	9.8	.20	9.5	.20	9.2	.12						
120C4B	1/3 19 lbs.	1510	4743	1618		1552		1484		1414		1342		1272		1193		1072		472					
				11.9	.21	11.9	.21	11.9	.22	11.7	.23	11.5	.25	11.1	.25	10.8	.25	10.4	.24	10.1	.14				
		1590	4995	1703		1641		1577		1511		1443		1376		1308		1224		1087					
				12.8	.24	12.8	.25	12.8	.26	12.7	.27	12.5	.28	12.2	.29	11.8	.29	11.5	.29	11.2	.28				
	19 lbs.	1669	5243	1788		1729		1668		1606		1541		1476		1413		1345		1256		316			
				13.8	.28	13.8	.29	13.8	.30	13.7	.31	13.5	.32	13.3	.33	12.9	.34	12.6	.33	12.3	.33	11.7	.14		

135 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
135C2B	1/6 15 lbs.	850	3004	1296		1162		1020		776															
				5.2	.07	5.1	.07	4.8	.08	4.4	.08														
		926	3272	1412		1290		1159		1016															
				6.1	.09	6.1	.09	5.9	.10	5.5	.10														
135C3B	1/4 15 lbs.	1002	3541	1528		1416		1296		1175		982													
				7.2	.11	7.2	.12	7.0	.13	6.7	.13	6.3	.13												
		1079	3813	1646		1541		1431		1320		1196													
				8.4	.14	8.4	.14	8.3	.15	8.0	.16	7.6	.16												
135C4B	1/3 19 lbs.	1159	4096	1768		1671		1570		1465		1361		1220											
				9.9	.17	9.9	.18	9.7	.19	9.5	.20	9.1	.20	8.7	.20										
		1240	4382	1891		1801		1708		1610		1513		1410		1247									
				11.4	.21	11.4	.22	11.3	.23	11.1	.24	10.8	.25	10.4	.25	10.0	.24								
135C5B	1/2 23 lbs.	1306	4615	1992		1906		1818		1726		1633		1541		1428		1221							
				12.3	.24	12.3	.25	12.3	.26	12.1	.28	11.8	.29	11.4	.29	11.1	.29	10.7	.28						
		1371	4845	2091		2010		1926		1839		1750		1663		1571		1443							
				13.2	.28	13.2	.29	13.2	.30	13.0	.31	12.8	.33	12.4	.34	12.0	.33	11.7	.33						
	23 lbs.	1473	5206	2247		2171		2094		2014		1931		1849		1769		1681		1561					
				14.7	.35	14.7	.36	14.7	.37	14.5	.38	14.3	.40	14.0	.41	13.6	.42	13.3	.41	13.0	.41				
		1574	5562	2401		2330		2258		2184		2108		2030		1954		1878		1795		1514			
				16.2	.43	16.2	.43	16.2	.44	16.1	.46	15.9	.48	15.7	.50	15.4	.51	15.0	.51	14.7	.50	14.0	.49		

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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels.

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 31 lbs.	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								
		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 38 lbs.	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		
		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	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								
				942	5178	5508		5368		5224		5066		4882		4648		4388		4114		3704					
				16.9	.91	16.9	.93	16.9	.96	16.5	.98	16.1	1.01	15.3	1.03	14.5	1.03	13.8	1.03	13.1	1.01						
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	23	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		
				1192	6553	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 31 lbs.	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										
		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 38 lbs.	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				
		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 50 lbs.	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		
		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 36 lbs.	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										
		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 50 lbs.	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				
		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 50 lbs.	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				
		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 74 lbs.	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				
		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 98 lbs.	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
		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
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								
				12362		11920		11456		10941		10330		9614				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				
				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		
				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												
				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										
				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						
				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				
				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															
				10.1	1.15	9.3	1.22	8.4	1.25	7.7	1.24														
		309	3599	16521		15104		13651		12086															
				11.6	1.41	10.9	1.49	9.8	1.51	9.0	1.54														
445C9B	2 50 lbs.	325	3786	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												
		341	3972	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												
445C10B	3 74 lbs.	366	4263	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										
		391	4555	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								
445C11B	5 98 lbs.	428	4986	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						
		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	246	3155	17559		15590		13568		9724															
				9.0	1.15	8.1	1.22	7.3	1.25	6.6	1.17														
	38 lbs.	263	3373	18773		16935		15057		12633															
10.4				1.41	9.6	1.49	8.6	1.52	7.9	1.52															
490C9B	2	277	3553	19772		18031		16246		14273															
				11.5	1.64	10.8	1.73	9.7	1.77	8.9	1.79														
	50 lbs.	290	3720	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												
490C10B	3	312	4002	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												
	74 lbs.	333	4271	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											
490C11B	5	365	4682	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								
	98 lbs.	396	5079	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	Sone
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								
				21	5.18	22	5.22	22	5.25	20	5.27	20	5.26	20	5.26	19.3	5.23	18.6	5.14							
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					

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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. **Shaded area indicates reinforced wheel required.**

ACRUD Specifications & Dimension Data

Upblast Centrifugal Exhaust Ventilator Roof Mounted Direct Drive

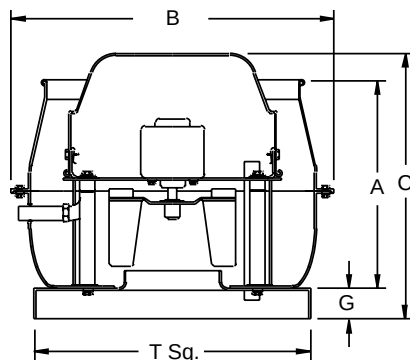


Loren Cook Company certifies that the ACRUD, ACRUD-HP and ACRUD-XP shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings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

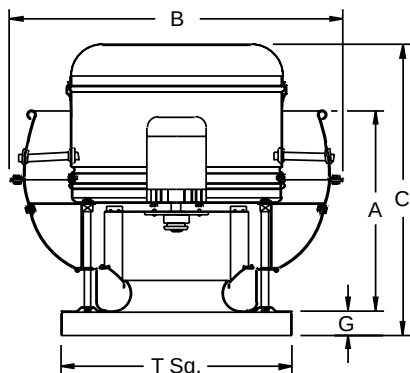


Type ACRUD, ACRUD-HP and ACRUD-XP are furnished standard with UL 705 and cUL 705 listings (Power Ventilator/ZACT).

Size 70 - 100



Size 120 - 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 204-96, 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 - Fans shall be models ACRUD, ACRUD-HP or ACRUD-XP as manufactured by Loren Cook Company of Springfield, Missouri.

ACRUD Dimension Data

Size	A	B	C			G	T 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
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. *Roof opening size for curbs supplied by Loren Cook Company only. Weights in pounds.

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	Max. Watts	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									
90R10DH		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									
120R10D	1/6	1075	3376	-	1163		1069		970		852															
					7.3	.08	7.2	.08	6.8	.09	6.2	.09														
120R13D	1/4*	1300	4084	-	1406		1329		1250		1166		1073		940		1073									
					11.4	.13	11.4	.14	11.1	.15	10.6	.16	10.0	.16	9.4	.16	10.0	.16								
120R15D		1550	4869	-	1677		1612		1546		1479		1410		1335		1410		1137							
					14.9	.23	14.9	.24	14.9	.25	14.5	.26	14.2	.26	13.9	.26	14.2	.26	13.2	.27						
120R17D	1/3	1725	5417	-	1866		1808		1749		1690		1629		1566		1500		1427		1340					
					17.9	.31	17.9	.33	17.9	.34	17.7	.35	17.3	.36	17.0	.36	16.7	.36	16.4	.37	16.1	.37				
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		1614	
					23	.56	23	.58	23	.60	23	.62	23	.63	23	.64	22	.65	22	.65	22	.66	21	.67	21	.64

Performance shown is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances in the airstream. 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 fan 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 12.1 .23	2154 12.1 .25	2035 11.9 .26	1910 11.4 .27	1775 10.8 .27	1601 10.2 .27	1258 9.6 .25				
150R11D	1/3	1140	4477	2409 13.9 .27	2298 13.9 .29	2186 13.7 .31	2071 13.3 .32	1948 12.7 .32	1808 12.1 .32	1948 12.7 .32				
150R13D	3/4*	1300	5105	2747 18.0 .41	2650 18.0 .43	2553 18.0 .45	2453 17.6 .46	2351 17.2 .47	2244 16.6 .47	2351 17.2 .47	1989 15.6 .48	1791 15.1 .48		
150R15D		1550	6087	3275 24 .69	3194 24 .72	3113 24 .74	3030 24 .76	2947 23 .78	2862 23 .79	2947 23 .78	2685 22 .80	2590 22 .81	2365 21 .82	1979 21 .79
165R10D	1/3	1075	4644	2925 14.9 .37	2728 14.9 .38	2543 14.8 .39	2359 14.4 .39	2156 13.8 .39	1981 13.3 .39	1696 12.8 .39				
180R10D	3/4	1075	5066	4065 16.4 .61	3936 16.4 .63	3805 16.3 .65	3667 15.6 .67	3518 14.9 .69	3344 14.4 .70	3518 14.9 .69	2899 13.6 .70	2646 13.2 .69		
180R11D	3/4	1140	5369	4310 17.9 .73	4189 17.9 .75	4066 17.9 .77	3939 17.2 .79	3803 16.5 .81	3653 15.9 .83	3474 15.5 .84	3261 15.2 .84	3047 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 6.4 .12	913 6.5 .12	817 6.5 .13	711 6.4 .13	579 5.9 .13						
150RH11D	1/4	1140	4477	1055 7.2 .14	987 7.2 .15	904 7.3 .15	804 7.3 .15	696 6.9 .15	566 6.4 .15					
150RH13D	1/3*	1300	5105	1220 9.2 .2	1163 9.2 .21	1099 9.1 .22	1022 9.3 .23	934 9.5 .23	846 9.1 .23	736 8.6 .23	623 8.1 .22			
150RH15D		1550	6087	1475 12.4 .34	1428 12.4 .35	1379 12.3 .36	1326 12.2 .37	1266 12.3 .38	1196 12.4 .38	1122 12.4 .39	1049 12.3 .39	872 11.4 .38	668 10.6 .36	
150RH17D	1/2	1725	6774	1651 14.8 .47	1609 14.8 .48	1566 14.8 .49	1521 14.8 .5	1473 14.7 .51	1420 14.7 .52	1359 14.6 .53	1293 14.6 .53	1161 14.4 .53	1005 13.7 .53	834 13.1 .51
165RH10D	1/3	1075	4644	1830 8.9 .22	1742 8.7 .23	1633 8.5 .24	1514 8.3 .25	1375 8.1 .25	1175 8.1 .25					
165RH11D	1/3	1140	4924	1950 9.9 .26	1869 9.7 .27	1772 9.5 .28	1662 9.3 .29	1546 9.1 .3	1393 9.0 .3	1194 9.0 .29				
165RH13D	3/4*	1300	5616	2244 12.6 .38	2176 12.6 .39	2100 12.3 .41	2012 11.9 .42	1915 11.6 .43	1816 11.6 .44	1704 11.4 .44	1556 11.5 .44			
165RH15D		1550	6696	2699 16.5 .63	2643 16.5 .65	2585 16.5 .67	2522 16.2 .69	2451 15.9 .7	2373 15.6 .72	2292 15.4 .73	2210 15.1 .74	2027 14.8 .75	1765 14.8 .74	1428 15.0 .72
195RH10D	3/4	1075	5488	3522 14.7 .57	3402 14.7 .6	3274 14.3 .62	3127 13.9 .63	2964 13.3 .65	2791 12.6 .66	2604 11.9 .67	2392 11.2 .67			
195RH11D	3/4	1140	5820	3748 16.4 .67	3637 16.4 .7	3519 16.2 .73	3388 15.7 .75	3240 15.3 .76	3083 14.4 .77	2917 13.8 .79	2738 13.1 .8	2296 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 7.4 .1	833 7.1 .1	784 6.8 .11	718 6.5 .12	648 6.3 .12	550 6.1 .12					
165RX11D	1/4	1140	4924	945 8.2 .11	895 7.9 .12	850 7.7 .13	795 7.4 .14	728 7.1 .14	662 6.9 .15	547 6.7 .15				
165RX13D	1/3*	1300	5616	1093 10.3 .16	1045 10.1 .17	1005 9.9 .18	965 9.6 .19	918 9.4 .2	859 9.1 .21	802 8.8 .21	741 8.7 .22	512 8.4 .21		
165RX15D		1550	6696	1321 13.9 .27	1278 13.8 .28	1241 13.6 .3	1207 13.4 .31	1174 13.2 .32	1139 12.9 .33	1099 12.7 .34	1051 12.5 .35	954 12.0 .36	839 11.7 .37	635 11.4 .36
165RX17D	1/2	1725	7451	1480 16.3 .37	1441 16.1 .39	1404 16.0 .4	1372 15.8 .41	1342 15.7 .43	1312 15.5 .44	1282 15.3 .45	1248 15.0 .46	1166 14.6 .48	1078 14.2 .49	988 13.9 .51
180RX10D	1/3	1075	5066	1160 8.7 .14	1102 8.4 .15	1041 8.0 .16	984 7.8 .17	930 7.6 .17	857 7.6 .18	741 7.6 .19	614 7.7 .19			
180RX11D	1/4	1140	5372	1236 9.6 .16	1182 9.3 .17	1125 9.0 .19	1069 8.7 .19	1018 8.5 .2	964 8.4 .21	884 8.4 .22	773 8.5 .23			
180RX13D	1/2*	1300	6126	1423 12.3 .24	1377 12.0 .25	1329 11.7 .26	1278 11.3 .28	1229 11.1 .29	1183 10.9 .3	1139 10.8 .31	1089 10.7 .32	918 10.7 .34	698 11.0 .32	
180RX15D		1550	7304	1713 16.9 .39	1675 16.5 .41	1636 16.2 .43	1595 15.8 .44	1553 15.5 .46	1511 15.2 .47	1470 15.0 .49	1430 14.9 .5	1356 14.7 .52	1266 14.5 .54	1112 14.6 .57
180RX17D	3/4	1725	8129	1914 19.7 .54	1880 19.4 .55	1846 19.1 .57	1810 18.8 .59	1774 18.5 .61	1736 18.2 .63	1698 18.1 .64	1660 17.9 .66	1589 17.7 .69	1522 17.6 .71	1448 17.4 .74
195RX10D	1/3	1075	5488	1497 9.5 .21	1429 9.1 .22	1362 8.7 .23	1296 8.3 .25	1226 8.0 .26	1150 7.8 .27	1066 7.5 .28	961 7.2 .28			
195RX11D	1/3	1140	5820	1596 10.6 .24	1531 10.2 .26	1468 9.7 .27	1406 9.4 .29	1342 9.1 .3	1274 8.8 .31	1200 8.5 .32	1119 8.3 .33	883 7.7 .33		
195RX13D	3/4*	1300	6637	1837 13.7 .35	1780 13.2 .37	1723 12.8 .39	1669 12.3 .41	1614 11.9 .42	1559 11.6 .44	1501 11.3 .45	1440 11.1 .46	1307 10.7 .48	1129 10.1 .5	
195RX15D		1550	7913	2210 18.8 .59	2162 18.3 .61	2114 17.8 .64	2067 17.4 .66	2021 17.0 .68	1975 16.6 .7	1929 16.2 .72	1883 15.9 .74	1787 15.3 .77	1684 15.0 .79	1571 14.7 .82

Performance shown is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances in the airstream. Speed (RPM) shown for model 165R10 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 fan sone levels. *Motor is a 2-speed 1300/1550 RPM 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 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 204-96, Balance Quality and Vibration Levels for Fans.

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

Bearings - Bearings shall be designed and 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, 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 - Fans shall be models ACRUB, ACRUB-HP or ACRUB-XP as manufactured by Loren Cook Company of Springfield, Missouri.

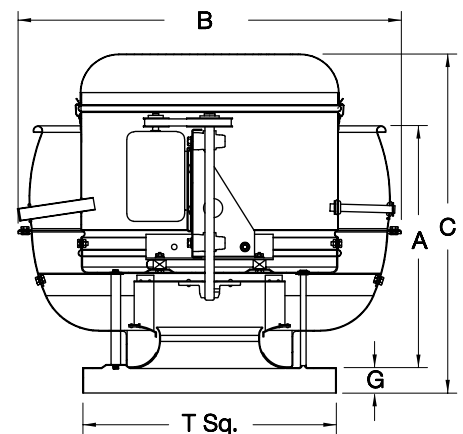
Upblast Centrifugal Exhaust Ventilator Roof Mounted Belt Drive



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 Dimension Data

Size	A	B	C			G	T 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.

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												
135R4B	1/3 19 lbs.			1744		1643		1541		1432		1308		1113											
		1132	4000	1110		110	.17	107	.18	101	.18	95	.19	89	.19										
				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.	1186	4191	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								
		1240	4382	2012		1925		1837		1747		1652		1548		1415		1182							
135R5B	1/2 23 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 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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan 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		1468													
				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	881	3459	672		536		339																	
				4.4	.07	4.1	.07	3.7	.06																
150SCH2B	15 lbs.	1162	4563	1012		932		835		606															
				7.4	.15	7.5	.16	7.6	.16	6.8	.16														
150RH3B	1/4	1249	4904	1108		1039		954		763		491													
				8.5	.19	8.6	.20	8.7	.20	8.2	.20	7.3	.18												
150SCH3B	15 lbs.	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	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										
150SCH4B	19 lbs.	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	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								
150SCH5B	23 lbs.	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	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				
150SCH6B	31 lbs.	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 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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan 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															
				6.3	.10	6.2	.11	5.5	.11	4.8	.10														
165SC2B	15 lbs.	771	3330	2168		1988		1797		1564															
				7.6	.14	7.6	.15	7.1	.16	6.4	.16														
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	932	4025	1450		1314		1141																	
165SCH2B	15 lbs.			6.7	.16	6.5	.16	6.2	.16																
165RH3B	1/4	1072	4630	1736		1626		1507		1165															
165SCH3B	15 lbs.			8.7	.23	8.4	.24	8.3	.25	8.0	.24														
				1846		1747		1635		1355															
165RH4B	1/3	1128	4872	9.5	.26	9.3	.28	9.1	.29	8.8	.29														
165SCH4B	19 lbs.	1185	5118	1957		1866		1762		1527		1142													
				10.5	.30	10.2	.32	9.9	.33	9.7	.34	9.8	.32												
165RH5B	1/2	1273	5498	2125		2046		1954		1752		1466													
				12.1	.37	11.8	.39	11.5	.40	11.1	.41	11.2	.41												
165SCH5B	23 lbs.	1361	5879	2291		2221		2140		1956		1742		1421											
				13.5	.45	13.3	.46	13.0	.48	12.4	.50	12.3	.51	12.4	.50										
165RH6B	3/4	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								
165SCH6B	31 lbs.	1566	6764	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						
165RH7B	1	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				
165SCH7B	36 lbs.	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 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	1355	5853	814		637																			
165SCX3B	15 lbs.			9.4	.24	9.1	.25																		
165RX4B	1/3	1498	6470	988		889		728																	
165SCX4B	19 lbs.			11.7	.32	11.3	.33	10.9	.33																
				1121		1025		931		766		519													
165RX5B	1/2	1609	6950	13.3	.38	12.9	.40	12.5	.41	12.3	.41	12.0	.37												
165SCX5B	23 lbs.	1720	7429	1243		1160		1072		981		818		614											
				15.0	.46	14.5	.48	14.1	.49	13.9	.50	13.7	.50	13.5	.47										
165RX6B	3/4	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								
165SCX6B	31 lbs.	1979	8548	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						
165RX7B	1	2081	8989	1601		1551		1495		1427		1352		1281		1207		947							
				21	.76	20	.79	20	.82	19.6	.84	19.1	.85	18.7	.87	18.6	.88	18.5	.89						
165SCX7B	36 lbs.	2183	9129	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				
165RX8B	1-1/2	2345	10129	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		
165SCX8B	38 lbs.	2507	10829	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 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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan 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	635	2992	2446		2214		1945		1541															
180SC2B	15 lbs.			5.9	.14	5.6	.15	5.0	.16	4.5	.16														
180R3B	1/4	730	3440	2812		2612		2395		2138		1751													
180SC3B	15 lbs.			7.6	.21	7.5	.23	6.9	.24	6.5	.25	6.0	.24												
180R4B	1/3	807	3802	3109		2928		2738		2526		2272		1872											
180SC4B	19 lbs.			9.3	.29	9.3	.30	8.7	.32	8.2	.33	7.7	.33	7.3	.32										
180R5B	1/2	927	4368	3571		3414		3253		3082		2893		2677		2401									
180SC5B	23 lbs.			12.2	.43	12.2	.45	11.8	.47	11.2	.49	10.7	.50	10.3	.51	9.9	.50								
180R6B	3/4	1066	5023	4106		3970		3832		3690		3539		3376		3199		2997		2741					
180SC6B	31 lbs.			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	1176	5541	4530		4407		4283		4155		4023		3885		3738		3579		3405		2948			
180SC7B	36 lbs.			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	1264	5956	4869		4755		4639		4522		4402		4277		4146		4007		3860		3523		3029	
180SC8B	38 lbs.			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	1419	6686	5466		5364		5262		5158		5053		4946		4835		4721		4601		4345		4054	
180SC9B	50 lbs.			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	897	4227	2068		1910		1724																	
180SCH3B	15 lbs.			8.8	.22	8.4	.23	7.9	.24																
180RH4B	1/3	992	4674	2344		2212		2060		1704															
180SCH4B	19 lbs.			10.6	.30	10.3	.31	9.9	.32	8.8	.33														
180RH5B	1/2	1139	5367	2759		2652		2534		2258		1939													
180SCH5B	23 lbs.			13.7	.44	13.5	.46	13.1	.47	12.2	.49	11.0	.51												
				2998		2900		2796		2557		2278													
180RH6B	3/4	1225	5772	15.5	.55	15.4	.56	15.1	.58	14.3	.60	13.3	.62												
180SCH6B	31 lbs.			3234		3144		3050		2839		2592		2323											
		1311	6177	17.6	.66	17.5	.68	17.2	.70	16.6	.72	15.6	.75	14.4	.77										
180RH7B	1	1446	6814	3602		3521		3438		3260		3057		2827		2583									
180SCH7B	36 lbs.			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							
180RH8B	1-1/2	1553	7318	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						
180SCH8B	38 lbs.			4178		4109		4039		3893		3735		3561		3367		3159		2945		2674			
		1660	7822	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	1744	8218	4403		4338		4271		4134		3988		3829		3655		3464		3264		3057		2785	
180SCH9B	50 lbs.			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	1175	5537	848		595																			
180SCX3B	15 lbs.			8.9	.25	9.1	.23																		
180RX4B	1/3	1300	6126	1089		918		698																	
180SCX4B	19 lbs.			10.7	.32	10.7	.34	11.0	.32																
180RX5B	1/2	1492	7030	1354		1274		1156		988		774													
180SCX5B	23 lbs.			14.0	.45	13.7	.47	13.6	.50	14.0	.51	14.3	.48												
180RX6B	3/4	1717	8091	1650		1578		1511		1436		1322		1174		1022									
180SCX6B	31 lbs.			17.8	.65	17.6	.68	17.4	.70	17.3	.73	17.2	.76	17.4	.77	17.7	.76								
180RX7B	1	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								
		180SCX7B	36 lbs.	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	2034	9585	2058		1993		1930		1871		1814		1756		1688		1466		1216					
180SCX8B	38 lbs.			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	2286	10772	2372		2316		2258		2201		2146		2094		2044		1938		1780		1558		1320	
180SCX9B	50 lbs.			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	
				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

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	577	2945	2774		2506		2147		1510															
195SC2B	15 lbs.			6.0	.14	5.7	.15	5.0	.16	4.6	.15														
195R3B	1/4	664	3389	3192		2963		2702		2329															
195SC3B	15 lbs.			7.5	.21	7.4	.23	6.8	.24	6.3	.25														
195R4B	1/3	734	3747	3528		3323		3100		2816		2454													
195SC4B	19 lbs.			9.1	.29	9.1	.31	8.5	.32	8.0	.33	7.5	.33												
195R5B	1/2	842	4298	4047		3869		3683		3476		3214		2899		2513									
195SC5B	23 lbs.			11.9	.44	11.9	.46	11.5	.48	10.8	.49	10.3	.50	9.9	.50	9.5	.49								
195R6B	3/4	969	4946	4658		4504		4345		4178		3995		3776		3505		3231		2865					
195SC6B	31 lbs.			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	1069	5457	5139		4999		4857		4710		4554		4384		4184		3943		3695		3009			
195SC7B	36 lbs.			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	1149	5865	5523		5393		5262		5127		4986		4837		4674		4484		4259		3792			
195SC8B	38 lbs.	1228	6269	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	
				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	1290	6585	6201		6085		5969		5851		5729		5604		5472		5332		5178		4799		4386	
195SC9B	50 lbs.	1353	6907	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 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	770	3930	2251		2019		1747																	
195SCH3B	15 lbs.			7.6	.23	7.1	.24	6.4	.25																
195RH4B	1/3	851	4344	2571		2374		2155																	
195SCH4B	19 lbs.			9.3	.31	8.8	.32	8.2	.33																
195RH5B	1/2	977	4987	3044		2893		2718		2318															
195SCH5B	23 lbs.			12.3	.45	11.8	.47	11.2	.48	10.0	.50														
195RH6B	3/4	1051	5365	3315		3182		3029		2680		2254													
195SCH6B	31 lbs.	1124	5738	14.1	.56	13.7	.58	13.3	.59	12.0	.62	10.6	.63												
				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	1240	6330	3994		3888		3775		3513		3217		2883		2453									
195SCH7B	36 lbs.			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	1332	6799	4319		4223		4121		3892		3629		3342		3016		2594							
195SCH8B	38 lbs.	1424	7269	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				
195RH9B	2	1497	7642	4899		4814		4727		4541		4327		4091		3840		3565		3250		2832			
195SCH9B	50 lbs.	1570	8015	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	
				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	1030	5258	823																					
195SCX3B	15 lbs.			6.5	.25																				
195RX4B	1/3	1139	5814	1117		879																			
195SCX4B	19 lbs.			8.2	.33	7.7	.33																		
195RX5B	1/2	1308	6677	1455		1324		1153		901															
195SCX5B	23 lbs.			11.2	.47	10.8	.49	10.3	.51	9.7	.48														
195RX6B	3/4	1505	7683	1806		1706		1596		1474		1315		1102											
195SCX6B	31 lbs.			15.1	.68	14.6	.71	14.3	.74	13.8	.76	13.2	.77	12.7	.75										
195RX7B	1	1583	8081	1939		1846		1747		1639		1517		1356		1150									
195SCX7B	36 lbs.	1660	8474	16.5	.78	15.9	.81	15.6	.84	15.4	.87	14.7	.89	14.2	.90	13.7	.87								
				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	1783	9102	2270		2190		2108		2022		1931		1834		1726		1423							
195SCX8B	38 lbs.	1906	9730	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						
				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				
195RX9B	2	2003	10225	2624		2553		2482		2410		2336		2259		2177		2001		1775		1456			
195SCX9B	50 lbs.	2100	10720	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		
				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 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

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 210SC2B	1/6 15 lbs.	510	2803	3062		2734		2263																	
				5.6	.14	5.2	.16	4.6	.16																
210R3B 210SC3B	1/4 15 lbs.	586	3221	3518		3238		2903		2424															
				7.2	.21	7.0	.23	6.3	.24	5.9	.24														
210R4B 210SC4B	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 210SC5B	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 210SC6B	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 210SC7B	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 210SC8B	1-1/2 38 lbs.	1015 1085	5580 5965	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		
				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 210SC9B	2 50 lbs.	1141 1196	6272 6575	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
				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 210SCH4B	1/3 19 lbs.	768	4222	2769		2511		2235																	
				8.4	.31	8.3	.32	7.9	.33																
210RH5B 210SCH5B	1/2 23 lbs.	882	4849	3323		3093		2875		2341															
				10.7	.45	10.6	.47	10.6	.49	9.5	.50														
210RH6B 210SCH6B	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 210SCH7B	1 36 lbs.	1067 1120	5866 6157	4164		4008		3819		3452		3037		2485											
				14.9	.77	14.8	.81	14.8	.83	14.6	.87	13.8	.89	12.7	.87										
				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 210SCH8B	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 210SCH9B	2 50 lbs.	1352 1417	7433 7790	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	
				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 210SCH10B	3 74 lbs.	1521 1626	8362 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 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 210SCX4B	1/3 19 lbs.	1004	5519	1127																																											
				9.0	.33																																										
210RX5B 210SCX5B	1/2 23 lbs.	1153	6338	1558		1357		1102																																							
				11.3	.48	11.2	.50	12.7	.50																																						
210RX6B 210SCX6B	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 210SCX7B	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 210SCX8B	1-1/2 38 lbs.	1572 1681	8642 9241	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																												
210RX9B 210SCX9B	2 50 lbs.	1767 1852	9714 10181	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																								
210RX10B 210SCX10B	3 74 lbs.	1989 2126	10935 11688	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	
				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																						

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	533	3139	3684		3333		2854		2357															
225SC3B	15 lbs.			8.4	.20	8.0	.24	7.4	.24	6.6	.25														
225R4B	1/3	589	3469	4071		3753		3381		2873															
225SC4B	19 lbs.			10.2	.27	9.8	.32	9.4	.32	8.5	.33														
225R5B	1/2	677	3987	4680		4400		4119		3730		3288		2938											
225SC5B	23 lbs.			13.1	.41	12.7	.49	12.3	.48	11.8	.49	10.9	.49	10.2	.50										
225R6B	3/4	779	4588	5385		5138		4904		4637		4281		3887		3565									
225SC6B	31 lbs.			17.3	.63	16.8	.74	16.4	.75	16.0	.73	15.4	.74	14.7	.75	14.0	.76								
225R7B	1	819	4824	5661		5426		5204		4964		4655		4280		3932		3645							
225SC7B	36 lbs.	859	5059	18.9	.73	18.5	.86	18.1	.87	17.7	.85	17.2	.85	16.5	.87	15.9	.87	15.2	.89						
				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	923	5436	6380		6169		5971		5771		5548		5271		4942		4612		4330					
225SC8B	38 lbs.	986	5808	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				
				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	1036	6102	7161		6970		6793		6618		6437		6236		5997		5716		5414		4878		4427	
225SC9B	50 lbs.	1087	6402	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
				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	606	3569	2553		2159		1479																	
225SCH5B	23 lbs.	779	4588	7.3	.23	7.0	.24	6.3	.22																
225RH6B	3/4	897	5283	3634		3370		3074		2328															
225SCH6B	31 lbs.			14.2	.46	13.9	.49	13.7	.50	13.1	.50														
225RH7B	1	989	5825	4315		4110		3875		3356		2659													
225SCH7B	36 lbs.			17.2	.69	17.0	.72	16.7	.74	16.3	.76	15.6	.77												
225RH8B	1-1/2	1063	6261	4830		4656		4459		4009		3521		2800											
225SCH8B	38 lbs.	1136	6691	19.6	.90	19.6	.94	19.3	.97	18.7	1.02	18.4	1.03	17.5	1.02										
				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								
225RH9B	2	1194	7033	5638		5495		5341		4987		4588		4169		3662		2808							
225SCH9B	50 lbs.	1251	7369	23	1.34	23	1.39	23	1.43	23	1.50	22	1.54	22	1.55	21	1.56	20	1.45						
				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						
225RH10B	3	1343	7910	6262		6135		6002		5705		5364		4996		4615		4180		3542					
225SCH10B	74 lbs.	1436	8458	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				
				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		
				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	1019	6002	1710		1493		1190																	
225SCX5B	23 lbs.			11.5	.48	11.4	.51	11.3	.48																
225RX6B	3/4	1173	6909	2147		2013		1847		1635															
225SCX6B	31 lbs.			14.9	.69	14.9	.73	14.8	.76	14.7	.77														
225RX7B	1	1294	7622	2474		2353		2232		2089		1908		1700											
225SCX7B	36 lbs.			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	1390	8187	2731		2613		2502		2388		2255		2091		1905									
225SCX8B	38 lbs.	1486	8753	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								
				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	1562	9200	3185		3075		2968		2868		2770		2666		2547		2247		1852					
225SCX9B	50 lbs.	1637	9642	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				
				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	1718	10119	3587		3487		3387		3289		3197		3107		3017		2813		2548		2232			
225SCX10B	74 lbs.	1799	10597	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		
				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
				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 shown is for Installation Type A: free inlet, free outlet. Power

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	442	2835	4058		3639		3116																	
245SC3B	15 lbs.			7.2	.22	6.8	.24	6.3	.24																
245R4B	1/3	489	3136	4490		4114		3691		3060															
245SC4B	19 lbs.			9.0	.30	8.6	.32	8.2	.33	7.3	.33														
245R5B	1/2	561	3598	5151		4825		4481		4067		3471													
245SC5B	23 lbs.			11.9	.45	11.6	.48	11.3	.50	11.0	.50	9.7	.49												
245R6B	3/4	646	4143	5931		5649		5359		5047		4674		4185											
245SC6B	31 lbs.			14.8	.69	14.5	.72	14.2	.75	13.9	.77	13.6	.76	12.7	.76										
245R7B	1	679	4355	6234		5966		5692		5402		5074		4662		4104									
245SC7B	36 lbs.			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						
245R8B	1-1/2	765	4906	7023		6786		6546		6297		6035		5741		5391		4962		4325					
245SC8B	38 lbs.			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				
245R9B	2	860	5516	7896		7685		7472		7255		7032		6797		6542		6251		5912		4947			
245SC9B	50 lbs.			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 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	670	4297	4143		3805		3393																	
245SCH5B	23 lbs.			10.6	.47	10.0	.49	9.4	.50																
245RH6B	3/4	771	4945	4929		4675		4369		3661															
245SCH6B	31 lbs.			14.2	.71	13.8	.73	13.3	.74	12.0	.77														
245RH7B	1	811	5201	5233		4998		4730		4061		3255													
245SCH7B	36 lbs.			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												
245RH8B	1-1/2	913	5856	5999		5796		5583		5056		4458		3732											
245SCH8B	38 lbs.			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								
245RH9B	2	1026	6580	6835		6657		6475		6076		5564		5036		4446									
245SCH9B	50 lbs.			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						
245RH10B	3	1156	7414	7785		7628		7470		7140		6769		6307		5832		5364		4738					
245SCH10B	74 lbs.			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 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
245RX5B	1/2	877	5625	1801		1469																			
245SCX5B	23 lbs.			10.8	.50	10.5	.50																		
245RX6B	3/4	1009	6471	2337		2137		1898																	
245SCX6B	31 lbs.			14.5	.73	14.4	.76	14.1	.77																
245RX7B	1	1113	7138	2730		2555		2374		2164		1887													
245SCX7B	36 lbs.			17.6	.94	17.6	.98	17.6	1.02	17.3	1.03	17.1	1.01												
245RX8B	1-1/2	1195	7664	3038		2866		2705		2534		2338		2099											
245SCX8B	38 lbs.			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								
245RX9B	2	1343	8614	3586		3422		3267		3123		2978		2822		2647									
245SCX9B	50 lbs.			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						
245RX10B	3	1477	9473	4063		3920		3771		3628		3495		3365		3231		2928		2530					
245SCX10B	74 lbs.			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		

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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. **Shaded area indicates reinforced wheel required.**

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	376	2657	4620		4073		3320																	
270SC3B	15 lbs.			5.0	.22	4.7	.24	4.1	.24																
270R4B	1/3	416	2940	5112		4623		4039																	
270SC4B	19 lbs.			6.3	.30	6.0	.32	5.4	.33																
270R5B	1/2	477	3371	5861		5439		4981		4381															
270SC5B	23 lbs.			8.4	.45	8.3	.48	7.5	.50	7.1	.50														
270R6B	3/4	549	3880	6746		6381		6000		5576		5025		4158											
270SC6B	31 lbs.			11.5	.68	11.5	.72	10.6	.75	9.9	.77	9.4	.76	9.0	.72										
				7090		6743		6384		5995		5523		4889											
270R7B	1	577	4078	12.4	.79	12.4	.83	11.6	.87	10.9	.89	10.4	.88	9.9	.87										
270SC7B	36 lbs.	606	4283	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								
				7999		7692		7379		7052		6696		6274		5746		4965							
270R8B	1-1/2	651	4601	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						
270SC8B	38 lbs.	696	4919	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				
				8995		8722		8445		8162		7867		7549		7185		6753		6231					
270R9B	2	732	5174	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				
270SC9B	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	569	4022	4576		4080		3523																	
270SCH5B	23 lbs.			9.9	.47	9.1	.50	8.4	.50																
270RH6B	3/4	655	4629	5489		5136		4685		3652															
270SCH6B	31 lbs.			13.9	.70	12.8	.73	12.0	.76	10.8	.76														
270RH7B	1	689	4870	5837		5518		5122		4200															
270SCH7B	36 lbs.	723	5110	15.6	.81	14.5	.84	13.6	.87	12.3	.89														
				6181		5888		5540		4682															
				16.8	.93	16.0	.96	15.0	1.00	13.6	1.03														
270RH8B	1-1/2	777	5492	6721		6461		6164		5406		4565													
270SCH8B	38 lbs.	830	5866	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											
				21	1.37	21	1.42	19.5	1.46	17.8	1.53	16.7	1.56	16.1	1.53										
270RH9B	2	872	6163	7656		7434		7195		6622		5908		5156											
270SCH9B	50 lbs.	915	6467	22	1.58	22	1.63	22	1.68	19.7	1.75	18.4	1.80	17.6	1.80										
				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	983	6948	8734		8542		8342		7898		7352		6713		6066		5232							
270SCH10B	74 lbs.	1050	7422	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 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	756	5343	1974																					
270SCX5B	23 lbs.			12.1	.51																				
270RX6B	3/4	869	6142	2661		2374																			
270SCX6B	31 lbs.			14.3	.74	14.5	.77																		
270RX7B	1	959	6778	3117		2907		2647		2270															
270SCX7B	36 lbs.			16.3	.96	16.3	1.00	16.5	1.03	17.0	1.02														
270RX8B	1-1/2	1101	7782	3781		3624		3451		3253		3015		2697											
270SCX8B	38 lbs.			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	1157	8178	4035		3888		3732		3559		3362		3125		2811									
270SCX9B	50 lbs.	1214	8581	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									
				24	1.77	23	1.85	23	1.92	23	1.98	23	2.03	23	2.07	24	2.09								
270RX10B	3	1304	9217	4688		4558		4428		4294		4151		3994		3820		3379							
270SCX10B	74 lbs.	1393	9846	27	2.14	27	2.23	27	2.31	27	2.38	27	2.45	27	2.51	27	2.55	28	2.59						
				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	1525	10779	5655		5537		5423		5312		5201		5088		4971		4713		4414		4043		3519	
270SCX11B	98 lbs.	1656	11705	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

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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. **Shaded area indicates reinforced wheel required.**

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	314	2466	5763		4932		3486																	
300SC3B	15 lbs.			4.8	.21	4.2	.24	3.3	.24																
300R4B	1/3	348	2733	6387		5664		4589																	
300SC4B	19 lbs.			5.9	.29	5.4	.32	4.6	.33																
300R5B	1/2	399	3133	7323		6716		5941		4788															
300SC5B	23 lbs.			7.7	.44	7.3	.47	6.6	.50	5.9	.50														
300R6B	3/4	459	3604	8424		7910		7302		6532		5471													
300SC6B	31 lbs.			10.2	.67	9.8	.71	9.1	.75	8.4	.76	7.7	.76												
300R7B	1	507	3981	9305		8845		8321		7709		6916		5907											
300SC7B	36 lbs.			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	582	4571	10682		10285		9855		9370		8822		8151		7327		6284							
300SC8B	38 lbs.			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	641	5034	11765		11406		11027		10608		10150		9637		9023		8287		7461					
300SC9B	50 lbs.			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	736	5780	13508		13197		12876		12534		12163		11768		11340		10862		10306		8982			
300SC10B	74 lbs.			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	806	6330	14793		14509		14219		13917		13593		13248		12886		12497		12075		11058		9831	
300SC11B	98 lbs.			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	477	3746	5050		4371		3466																	
300SCH5B	23 lbs.			7.8	.48	7.1	.50	6.6	.49																
300RH6B	3/4	549	4311	6182		4607		5015																	
300SCH6B	31 lbs.			10.5	.72	9.7	.74	9.0	.76																
300RH7B	1	606	4759	7030		6536		6007		4813															
300SCH7B	36 lbs.			12.9	.94	12.1	.99	11.3	1.00	10.1	1.02														
300RH8B	1-1/2	651	5112	7678		7244		6757		5746															
300SCH8B	38 lbs.			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	767	6024	9295		8970		8600		7774		6920		5833											
300SCH9B	50 lbs.			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	823	6463	10060		9767		9443		8695		7914		7081		5910									
300SCH10B	74 lbs.			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	963	7563	11947		11708		11457		10892		10245		9580		8903		8163		7185					
300SCH11B	98 lbs.			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	730	5733	2786		2334																			
300SCX6B	31 lbs.			12.1	.75	12.9	.77																		
300RX7B	1	806	6330	3371		3029		2619																	
300SCX7B	36 lbs.			13.9	.98	14.4	1.01	15.1	1.03																
300RX8B	1-1/2	866	6801	3787		3510		3171		2783															
300SCX8B	38 lbs.			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	972	7634	4472		4259		4018		3738		3411		3056											
300SCX9B	50 lbs.			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	1095	8600	5229		5051		4866		4663		4436		4179		3889		3227							
300SCX10B	74 lbs.			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	1280	10053	6333		6182		6032		5879		5720		5552		5369		4954		4458		3906			
300SCX11B	98 lbs.			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 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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan 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	341	2946	7650		6920		6050		4379															
330SC5B	23 lbs.			7.0	.45	6.5	.49	5.7	.50	4.9	.44														
330R6B	3/4	393	3395	8817		8189		7512		6630		5013													
330SC6B	31 lbs.			9.2	.68	8.9	.73	8.0	.76	7.3	.76	6.6	.68												
330R7B	1	433	3740	9714		9147		8551		7866		6934													
330SC7B	36 lbs.			11.2	.91	10.9	.97	10.0	1.01	9.2	1.02	8.6	1.01												
330R8B	1-1/2	498	4302	11173		10681		10176		9639		9024		8243		7127									
330SC8B	38 lbs.			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	523	4518	11734		11265		10787		10286		9734		9066		8220		6813							
330SC9B	50 lbs.	548	4734	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						
				12294		11848		11394		10922		10416		9831		9115		8190							
330R10B	3	588	5079	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						
330SC10B	74 lbs.	629	5434	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				
				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		
330R11B	5	689	5952	15458		15103		14746		14384		14014		13632		13231		12798		12312		11122		9180	
330SC11B	98 lbs.	748	6462	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	416	3593	5392		4522																			
330SCH5B	23 lbs.			8.0	.49	7.2	.50																		
330RH6B	3/4	479	4138	6641		5951		5189																	
330SCH6B	31 lbs.			10.7	.72	9.9	.75	9.1	.77																
330RH7B	1	528	4561	7553		6985		6319		4552															
330SCH7B	36 lbs.			13.0	.95	12.2	.99	11.5	1.02	10.0	1.00														
330RH8B	1-1/2	567	4898	8259		7756		7173		5850															
330SCH8B	38 lbs.	606	5235	15.0	1.16	14.2	1.21	13.5	1.24	12.0	1.27														
				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												
330RH9B	2	668	5771	10037		9640		9212		8210		7104													
330SCH9B	50 lbs.			19.9	1.85	19.5	1.91	18.8	1.96	17.5	2.05	16.1	2.08												
330RH10B	3	718	6203	10900		10537		10153		9286		8292		7157											
330SCH10B	74 lbs.	767	6626	22	2.27	22	2.34	21	2.40	20	2.51	18.9	2.57	17.5	2.57										
				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								
330RH11B	5	839	7248	12958		12654		12343		11680		10930		10083		9215		8146							
330SCH11B	98 lbs.	912	7879	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
330RX7B	1	684	5909	3521		2913																			
330SCX7B	36 lbs.			13.3	1.01	12.8	1.03																		
330RX8B	1-1/2	735	6349	4058		3615		2932																	
330SCX8B	38 lbs.	786	6790	15.6	1.23	15.1	1.27	14.5	1.26																
				4558		4163		3739		3040															
				17.0	1.46	17.1	1.52	16.5	1.56	16.1	1.54														
330RX9B	2	826	7136	4922		4580		4187		3731		3045													
330SCX9B	50 lbs.	866	7481	18.0	1.65	18.4	1.74	18.0	1.79	17.6	1.81	17.4	1.76												
				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	930	8034	5798		5560		5269		4925		4576		4124		3496									
330SCX10B	74 lbs.	994	8587	22	2.24	22	2.35	22	2.45	21	2.52	21	2.57	21	2.58	21	2.53								
				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	1057	9131	6822		6623		6419		6190		5918		5611		5305		4463							
330SCX11B	98 lbs.	1120	9676	26	3.13	26	3.26	26	3.39	27	3.52	27	3.62	27	3.70	26	3.75	26	3.78						
				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	28	4.49	28	4.46				
				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		

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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels. **Shaded area indicates reinforced wheel required.**

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 8.1 .66	10390 7.6 .70	8682 6.8 .73	7054 6.0 .76																		
402R7B	1 36 lbs.	324	3414	12836 9.7 .88	11700 9.3 .93	10378 8.6 .96	8833 7.7 .99																		
402R8B	1-1/2 38 lbs.	348	3667	13787 11.2 1.09	12732 10.9 1.15	11600 10.0 1.19	10011 9.2 1.21	8786 8.4 1.26																	
		372	3919	14738 12.7 1.34	13752 12.5 1.39	12727 11.7 1.44	11292 10.9 1.47	10094 10.0 1.51																	
402R9B	2 50 lbs.	392	4130	15530 14.1 1.57	14596 139 1.62	13635 13.1 1.67	12443 12.2 1.71	11075 11.4 1.74	10008 10.7 1.79																
		411	4330	16283 15.4 1.80	15393 15.3 1.87	14482 14.5 1.92	13456 13.7 1.96	12024 12.9 1.99	11041 12.1 2.04	9511 11.3 2.07															
402R10B	3 74 lbs.	441	4647	17472 17.4 2.23	16642 17.4 2.29	15799 16.7 2.36	14910 15.9 2.41	13702 15.1 2.44	12517 14.4 2.48	11618 13.7 2.53															
		471	4963	18660 19.6 2.71	17884 19.6 2.79	17098 18.9 2.85	16289 18.1 2.91	15355 17.4 2.95	14058 16.7 2.98	13119 16.0 3.04	12256 15.3 3.10														
402R11B	5 98 lbs.	515	5426	20403 23 3.55	19694 23 3.63	18979 22 3.70	18250 22 3.77	17487 21 3.83	16555 20 3.87	15347 19.5 3.90	14475 18.8 3.96	13714 18.2 4.02													
		560	5900	22186 26 4.56	21534 26 4.65	20878 26 4.73	20214 25 4.81	19536 24 4.88	18809 23 4.93	17911 23 4.98	16786 22 5.01	15939 21 5.07	14485 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		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
490R7B	1 36 lbs.	233	2988	16655		14719		12081																	
490R8B	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																
490R9B	2 50 lbs.	282	3617	10.3	1.34	9.9	1.41	9.1	1.46	8.3	1.50														
				20157		18572		16856		14496		12543													
	295	3784	11.4	1.56	11.1	1.63	10.2	1.69	9.3	1.73	8.5	1.80													
490R10B	3 74 lbs.	317	4066	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												
	339	4348	22659		21253		19803		17934		15976		14252												
490R11B	5 98 lbs.	371	4759	14.1	2.21	14.0	2.30	13.1	2.37	12.3	2.42	11.4	2.47	10.7	2.55										
				24231		22918		21576		20073		17957		16493		14366									
	403	5169	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									
				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						
			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						

Centrifugal Exhaust Ventilator Wall Mounted Direct Drive



Loren Cook Company certifies that the ACWD, ACWD-HP and ACWD-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-HP and ACWD-XP are furnished standard with UL 705 and cUL 705 listings (Power Ventilator/ZACT).

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. An aerodynamic aluminum inlet cone shall be provided for maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-96, Balance Quality and Vibration Levels for Fans.

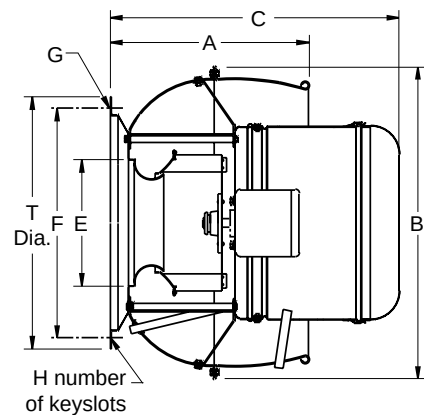
Motor - Motor shall be heavy duty type with permanently lubricated sealed bearings and furnished at the specified voltage, phase and enclosure.

Product - Fans shall be models ACWD, ACWD-HP or ACWD-XP as manufactured by Loren Cook Company of Springfield, Missouri.

ACWD Dimension Data

Size	A	B	C			E		F	G	H	T Dia.	Ship Wt.
			ACWD	ACWD-HP	ACWD-XP	Wall Opening						
						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
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.



ACWD Performance Data

Catalog Number	Mtr. HP	Fan RPM	Tip Speed	Max. Watts	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
70W10DL	1/25	1160	2123	72	100	56																				
					3.4	3.6																				
70W10DM		1150	2105	75	145	76																				
					3.7	3.3																				
70W10DH		1050	1922	80	194	89																				
					5.0	4.9																				
70W15DL	1/20	1720	3112	86	149	117	94																			
					5.5	5.4	4.8																			
70W15DM		1680	3057	92	211	169	116																			
					6.6	5.9	5.1																			
70W15DH		1550	2837	92	274	210	151																			
					6.4	6.4	5.9																			
90W10DL	1/25	1130	2655	80	306	241	167																			
					4.6	4.2	4.1																			
90W10DM		1110	2596	85	391	299	184																			
					5.2	4.8	4.0																			
90W10DH		1050	2478	85	470	353	201																			
					4.4	4.3	4.1																			
90W15DL	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															
90W15DM		1680	3841	118	584	526	467	405	325	242	172															
					9.9	9.7	9.6	8.8	8.0	7.3	6.7															
90W10DH		1550	3658	132	696	616	533	456	384	263	166															
					7.8	7.8	7.3	7.1	7.0	6.9	6.8															
100W10DL	1/25	1100	2882	89	370	304	227																			
					6.1	5.9	5.7																			
100W10DM		1090	2817	90	435	358	256	124																		
					6.1	5.8	5.5	5.2																		
100W10DH		1050	2751	94	554	424	261																			
					6.6	6.9	6.4																			
100W15DL	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														
100W15DM		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														
100W15DH		1550	4061	169	816	727	641	554	449	372	240															
					9.6	9.5	9.4	9.6	9.9	10.2	10.5															
120W10D	1/6	1075	3376	-	1163	1069	970	852																		
					7.3 .08	7.2 .08	6.8 .09	6.2 .09																		
120W13D	1/4*	1300	4084	-	1406	1329	1250	1166	1073	940	1073															
					11.4 .13	11.4 .14	11.1 .15	10.6 .16	10.0 .16	9.4 .16	10.0 .16															
120W15D		1550	4869	-	1677	1612	1546	1479	1410	1335	1410	1137														
					14.9 .23	14.9 .24	14.9 .25	14.5 .26	14.2 .26	13.9 .26	14.2 .26	13.2 .27														
120W17D	1/3	1725	5417	-	1866	1808	1749	1690	1629	1566	1500	1427	1340													
					17.9 .31	17.9 .33	17.9 .34	17.7 .35	17.3 .36	17.0 .36	16.7 .36	16.4 .37	16.1 .37													
135W10D	1/6	1075	3795	-	1656	1550	1441	1324	1177																	
					9.6 .14	9.6 .15	9.2 .16	8.6 .16	8.0 .16																	
135W11D	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															
135W13D	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														
135W15D		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												
135W17D	3/4	1725	6089	-	2657	2592	2526	2459	2392	2323	2253	2180	2103	1922	1614											
					23 .56	23 .58	23 .60	23 .62	23 .63	23 .64	22 .65	22 .65	22 .66	21 .67	21 .64											

Performance shown is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances in the airstream. 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 fan 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

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

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

Bearings - Bearings shall be designed and 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, 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 - Fans shall be models ACWB, ACWB-HP or ACWB-XP as manufactured by Loren Cook Company of Springfield, Missouri.

ACWB Dimension Data

Size	A	B	C			E Wall Opening		F	G	H	T 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												
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										
120W3B	1/4 15 lbs.	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						
		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						
120W4B	1/3 19 lbs.	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	Sone
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	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
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														
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															
150WH3B	1/4 15 lbs.			7.4	.15	7.5	.16	7.6	.16	6.8	.16														
				1108		1039		954		763		491													
		1249	4904	8.5	.19	8.6	.20	8.7	.20	8.2	.20	7.3	.18												
150WH4B	1/3 19 lbs.			1202		1141		1069		899		689													
				9.6	.23	9.6	.24	9.8	.24	9.8	.25	8.7	.24												
		1336	5246	1277		1221		1158		1000		818		587											
150WH5B	1/2 23 lbs.			10.6	.26	10.4	.27	10.6	.28	10.9	.29	10.0	.29	9.1	.27										
				1352		1300		1242		1098		940		743											
		1407	5525	11.4	.30	11.3	.31	11.3	.32	11.6	.34	11.1	.33	10.2	.33										
150WH6B	3/4 31 lbs.			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								
		1587	6232	1579		1536		1489		1384		1253		1118		952		775							
150WH6B	3/4 31 lbs.			14.4	.45	14.4	.46	14.3	.47	14.3	.49	14.2	.51	13.9	.50	13.2	.50	12.6	.48						
				1711		1671		1629		1538		1427		1301		1174		1014		852					
		1824	7162	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				
150WH6B	3/4 31 lbs.			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		
		1952	7665																						

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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan 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 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															
165W3B	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											
165W4B	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									
165W5B	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					
165W6B	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 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 15 lbs.	932	4025	1450		1314		1141																	
				6.7	.16	6.5	.16	6.2	.16																
165WH3B	1/4 15 lbs.	1072	4630	1736		1626		1507		1165															
				8.7	.23	8.4	.24	8.3	.25	8.0	.24														
165WH4B	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													
165WH5B	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											
165WH6B	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							
165WH7B	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 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 15 lbs.	1355	5853	814		637																			
				9.4	.24	9.1	.25																		
165WX4B	1/3 19 lbs.	1498	6470	988		889		728																	
				11.7	.32	11.3	.33	10.9	.33																
165WX5B	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											
165WX6B	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							
165WX7B	1 36 lbs.	2081	8989	1601		1551		1495		1427		1352		1281		1207		947							
				21	.76	20	.79	20	.82	19.6	.84	19.1	.85	18.7	.87	18.6	.88	18.5	.89						
		2183	9129	1698		1651		1602		1544		1476		1405		1338		1170		876					
165WX8B	1-1/2 38 lbs.	2345	10129	23	.86	22	.90	22	.93	21	.95	21	.97	21	.99	20	1.00	20	1.04	19.9	.99				
				1851		1807		1764		1717		1663		1601		1534		1408		1238		964			
		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 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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan 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
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
		1351	6366	5204		5097		4989		4880		4769		4655		4536		4413		4283		3999		3658	
180W9B	2 50 lbs.			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
		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 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												
		1311	6177	3234		3144		3050		2839		2592		2323											
180WH7B	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								
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						
		1660	7822	4178		4109		4039		3893		3735		3561		3367		3159		2945		2674			
180WH9B	2 50 lbs.			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		
		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 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								
		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						
180WX8B	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		
180WX9B	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 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	
				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
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
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												
		1124	5738	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						
		1424	7269	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		
		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 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									
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					
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		

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		
				6514		6366		6216		6063		5903		5735		5551		5342		5095		4566		3772	
210W9B	2 50 lbs.	1141	6272	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
				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
				7181		7046		6911		6773		6632		6486		6333		6169		5989		5549		5069	
210W9B	50 lbs.	1196	6575	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										
				4398		4257		4085		3724		3371		2891		2091									
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				
				5406		5300		5184		4905		4600		4323		4009		3609		3164		2260			
210WH9B	2 50 lbs.	1352	7433	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	
				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
				6578		6493		6404		6213		5986		5728		5481		5253		5011		4722		4384	
210WH10B	74 lbs.	1626	8939	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								
		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				
		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
		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					
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			
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											
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							
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					
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
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 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							
225WX9B	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					
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	
		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 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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels.

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 for maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-96, Balance Quality and Vibration Levels for Fans.

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

Product - Fan shall be model VCRD, VCRD-HP or VCRD-XP as manufactured by Loren Cook Company of Springfield, Missouri.

Upblast Centrifugal Restaurant Exhaust Ventilator Roof Mounted Direct Drive



Loren Cook Company certifies that the VCRD, VCRD-HP, VCRD-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.

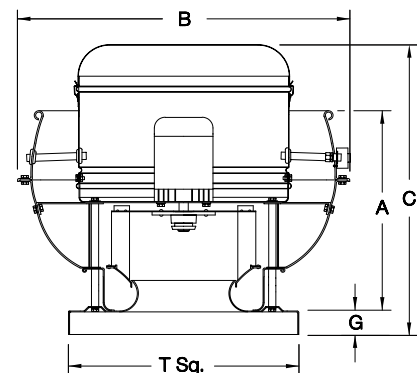
VCRD/VCRD-HP/VCRD-XP Dimension Data

Size	A	B	C			G	T Sq.	Roof Opening Square*	Ship. Wt.
			VCRD	VCRD-HP	VCRD-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	-	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.



Type VCRD, VCRD-HP, VCRD-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

Cat. No.	Mtr. HP	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
100V10D	1/25	1050	2749	585		504		399																	
				4.7	.03	4.6	.03	4.2	.04																
100V11D	1/4	1140	2985	635		560		479																	
				5.8	.04	5.7	.04	5.3	.05																
100V15D	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										
100V17D	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	1163		1069		970		852															
				7.3	.08	7.2	.08	6.8	.09	6.2	.09														
120V13D	1/4*	1300	4084	1406		1329		1250		1166		1073		940		1073									
				11.4	.13	11.4	.14	11.1	.15	10.6	.16	10.0	.16	9.4	.16	10.0	.16								
120V15D		1550	4869	1677		1612		1546		1479		1410		1335		1410		1137							
				14.9	.23	14.9	.24	14.9	.25	14.5	.26	14.2	.26	13.9	.26	14.2	.26	13.2	.27						
120V17D	1/3	1725	5417	1866		1808		1749		1690		1629		1566		1500		1427		1340					
				17.9	.31	17.9	.33	17.9	.34	17.7	.35	17.3	.36	17.0	.36	16.7	.36	16.4	.37	16.1	.37				
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		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		1922		1614	
				23	.56	23	.58	23	.60	23	.62	23	.63	23	.64	22	.65	22	.65	22	.66	21	.67	21	.64
150V10D	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								
150V11D	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								
150V13D	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				
150V15D		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
165V10D	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								
180V10D	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				
180V11D	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 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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan 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	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
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
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	3/4*	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 shown is for Installation Type A: free inlet, free outlet. Performance ratings do not include the effects of appurtenances in the airstream. 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 fan sone levels. *Motor is a 2-speed 1300/1550 RPM motor.

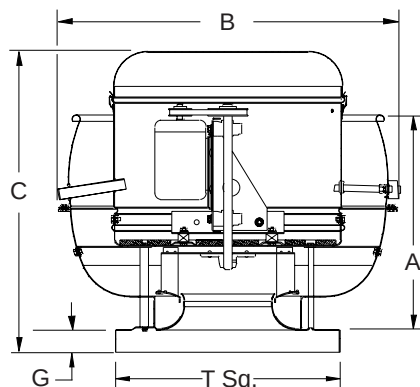
Upblast Centrifugal Restaurant Exhaust Ventilator Roof Mounted Belt Drive



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

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

Bearings - Bearings shall be designed and 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, 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 VCR, VCR-HP or VCR-XP as manufactured by Loren Cook Company of Springfield, Missouri.

VCR / VCR-HP / VCR-XP Dimension Data

Size	A	B	C			G	T 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																		
1742	4560	11.7	.14	11.6	.15	11.5	.15	11.4	.16	11.1	.16	10.7	.16	10.3	.16											
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														
2002	5241	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							
		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
120V2B	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												
		1420		1344		1265		1183		1092		967		651												
		1313	4124	11.5		.14	11.5	.15	11.3	.16	10.8	.16	10.2	.16	9.6	.16	9.0	.14								
120V3B	1/4 15 lbs.	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							
		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						
120V4B	1/3 19 lbs.	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 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
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.	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										
		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								
135V4B	1/3 19 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		

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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels.

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															
150V3B	1/4 15 lbs.			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												
150V4B	1/3 19 lbs.			2054		1924		1790		1647		1468													
		972	3817	9.7	.17	9.7	.19	9.4	.20	8.9	.20	8.3	.20												
		1040	4084	2198		2076		1952		1822		1677		1469											
150V5B	1/2 23 lbs.			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								
150V6B	3/4 31 lbs.			2610		2508		2405		2299		2190		2074		1940		1756							
		1235	4849	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					
150V6B	3/4 31 lbs.			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				
		1420	5576	3001		2912		2823		2733		2641		2546		2447		2342		2221		1834			
		1519	5965	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		
150V6B	3/4 31 lbs.			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															
150VH3B	1/4 15 lbs.			7.4	.15	7.5	.16	7.6	.16	6.8	.16														
		1249	4904	1108		1039		954		763		491													
		1336	5246	8.5	.19	8.6	.20	8.7	.20	8.2	.20	7.3	.18												
150VH4B	1/3 19 lbs.			1202		1141		1069		899		689													
		1407	5525	9.6	.23	9.6	.24	9.8	.24	9.8	.25	8.7	.24												
		1478	5804	1277		1221		1158		1000		818		587											
150VH5B	1/2 23 lbs.			10.6	.26	10.4	.27	10.6	.28	10.9	.29	10.0	.29	9.1	.27										
		1587	6232	1352		1300		1242		1098		940		743											
		1696	6660	11.4	.30	11.3	.31	11.3	.32	11.6	.34	11.1	.33	10.2	.33										
150VH6B	3/4 31 lbs.			1466		1419		1368		1245		1102		940		753									
		1824	7162	12.9	.37	12.8	.38	12.8	.39	12.8	.41	12.9	.42	12.0	.41	11.3	.40								
		1952	7665	1579		1536		1489		1384		1253		1118		952		775							
150VH6B	3/4 31 lbs.			14.4	.45	14.4	.46	14.3	.47	14.3	.49	14.2	.51	13.9	.50	13.2	.50	12.6	.48						
		1824	7162	1711		1671		1629		1538		1427		1301		1174		1014		852					
		1952	7665	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				
150VH6B	3/4 31 lbs.			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 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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan 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														
				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												
				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										
				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						
				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				
				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																
				1736		1626		1507		1165															
165VH3B	1/4 15 lbs.	1072	4630	1846		1747		1635		1355															
				9.5	.26	9.3	.28	9.1	.29	8.8	.29														
				1957		1866		1762		1527		1142													
165VH4B	1/3 19 lbs.	1128	4872	10.5	.30	10.2	.32	9.9	.33	9.7	.34	9.8	.32												
				12.1	.37	11.8	.39	11.5	.40	11.1	.41	11.2	.41												
				2291		2221		2140		1956		1742		1421											
165VH5B	1/2 23 lbs.	1273	5498	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								
165VH6B	3/4 31 lbs.	1463	6319	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						
				2820		2767		2709		2577		2426		2268		2074		1809		1467					
165VH7B	1 36 lbs.	1646	7110	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 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																				
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 1720	6950 7429	1121		1025		931		766		519																																			
				13.3	.38	12.9	.40	12.5	.41	12.3	.41	12.0	.37																																		
				1243		1160		1072		981		818		614																																	
165VX6B	3/4 31 lbs.	1850 1979	7991 8548	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																													
165VX7B	1 36 lbs.	2081 2183	8989 9129	1601		1551		1495		1427		1352		1281		1207		947																													
				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																											
165VX8B	1-1/2 38 lbs.	2345 2507	10129 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	

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
	38 lbs.	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
180V9B	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
	50 lbs.	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												
	31 lbs.	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										
180VH7B	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								
180VH8B	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						
	38 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		
180VH9B	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
	50 lbs.	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 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 6.0 .14	2506 5.7 .15	2147 5.0 .16	1510 4.6 .15																		
195V3B	1/4 15 lbs.	664	3389	3192 7.5 .21	2963 7.4 .23	2702 6.8 .24	2329 6.3 .25																		
195V4B	1/3 19 lbs.	734	3747	3528 9.1 .29	3323 9.1 .31	3100 8.5 .32	2816 8.0 .33	2454 7.5 .33																	
195V5B	1/2 23 lbs.	842	4298	4047 11.9 .44	3869 11.9 .46	3683 11.5 .48	3476 10.8 .49	3214 10.3 .50	2899 9.9 .50	2513 9.5 .49															
195V6B	3/4 31 lbs.	969	4946	4658 15.7 .67	4504 15.7 .69	4345 15.5 .71	4178 14.9 .74	3995 14.2 .75	3776 13.8 .76	3505 13.4 .77	3231 12.9 .76	2865 12.5 .74													
195V7B	1 36 lbs.	1069	5457	5139 19.0 .89	4999 19.0 .92	4857 19.0 .95	4710 18.4 .97	4554 17.7 1.00	4384 17.1 1.01	4184 16.7 1.03	3943 16.2 1.03	3695 15.9 1.03	3009 15.2 .98												
195V8B	1-1/2	1149	5865	5523 21 1.11	5393 21 1.14	5262 21 1.17	5127 21 1.20	4986 20 1.22	4837 19.4 1.24	4674 18.8 1.26	4484 18.4 1.28	4259 18.0 1.28	3792 17.3 1.27												
	38 lbs.	1228	6269	5903 23 1.35	5781 23 1.39	5659 23 1.42	5534 23 1.45	5405 22 1.48	5270 22 1.50	5127 21 1.53	4970 21 1.54	4791 20 1.56	4363 19.5 1.56	3912 18.7 1.54											
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											
		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 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												
		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										
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								
195VH8B	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				
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		
		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 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	1.78	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 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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan sone levels.

VCR/VCR-HP/VCR-XP Performance Data

210 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
210V2B	1/6 15 lbs.	523	2875	2808		2470		2148																	
				7.4	.12	7.3	.14	9.8	.15																
210V3B	1/4 15 lbs.	602	3309	3232		2937		2651		2372															
				9.9	.19	9.8	.21	12.1	.23	12.6	.24														
210V4B	1/3 19 lbs.	665	3656	3571		3303		3041		2790		2521													
				11.5	.26	11.4	.28	11.8	.30	14.4	.32	13.4	.33												
210V5B	1/2 23 lbs.	764	4200	4102		3869		3638		3414		3196		2970		2640									
				14.3	.39	14.1	.42	14.0	.45	15.1	.46	16.4	.48	15.5	.50	14.6	.50								
210V6B	3/4 31 lbs.	879	4832	4720		4517		4315		4116		3922		3733		3543		3330		3012					
				18.6	.59	18.4	.63	18.3	.66	18.5	.69	19.2	.71	21	.72	20	.74	19.5	.76	18.8	.77				
210V7B	1 36 lbs.	970	5332	5209		5024		4841		4660		4481		4305		4134		3964		3782		3219			
				22	.80	22	.84	22	.88	22	.91	23	.93	24	.95	27	.97	26	.99	25	1.01	23	1.03		
210V8B	1-1/2	1042	5728	5595		5424		5253		5083		4915		4750		4588		4429		4271		3913			
				26	.99	26	1.03	26	1.07	25	1.11	26	1.14	26	1.16	29	1.18	32	1.20	31	1.23	29	1.27		
	38 lbs.	1114	6124	5982		5821		5661		5502		5345		5189		5035		4884		4735		4434		4057	
				30	1.21	30	1.25	29	1.30	29	1.34	29	1.38	30	1.40	31	1.43	35	1.45	39	1.47	37	1.52	35	1.56
210V9B	2	1170	6432	6282		6130		5977		5825		5675		5526		5378		5233		5089		4808		4503	
				32	1.40	32	1.45	32	1.50	32	1.54	32	1.58	32	1.61	33	1.64	35	1.66	41	1.69	42	1.74	39	1.79
	50 lbs.	1227	6745	6588		6443		6297		6153		6008		5866		5724		5584		5446		5176		4903	
				35	1.61	35	1.66	34	1.72	34	1.76	34	1.81	34	1.84	35	1.87	36	1.90	38	1.93	44	1.97	42	2.03

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 19 lbs.	768	4222	2769		2511		2235																	
				8.4	.31	8.3	.32	7.9	.33																
210VH5B	1/2 23 lbs.	882	4849	3323		3093		2875		2341															
				10.7	.45	10.6	.47	10.6	.49	9.5	.50														
210VRH6B	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										
210VH7B	1	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								
210VH8B	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				
210VH9B	2	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
210VH10B	3	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 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 19 lbs.	1004	5519	1127																					
				9.0	.33																				
210VX5B	1/2 23 lbs.	1153	6338	1558		1357		1102																	
				11.3	.48	11.2	.50	12.7	.50																
210VX6B	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												
210VX7B	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								
210VX8B	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								
				2694		2600		2508		2417		2323		2215		2078		1759							
		1681	9241	22	1.30	21	1.34	21	1.39	21	1.43	21	1.47	21	1.51	21	1.55	23	1.56						
210VX9B	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				
				3040		2956		2871		2787		2704		2621		2532		2309		2023		1646			
		1852	10181	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 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
				3583		3510		3437		3363		3289		3215		3143		2998		2837		2627		2378	
		2126	11688	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 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							
		859	5059	18.9	.73	18.5	.86	18.1	.87	17.7	.85	17.2	.85	16.5	.87	15.9	.87	15.2	.89						
				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 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. (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for Installation Type A: free inlet fan 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	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	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	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	811	5201	5233		4998		4730		4061		3255													
				15.3	.81	15.0	.84	14.6	.86	13.4	.89	12.1	.88												
	36 lbs.	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	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										
	38 lbs.	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	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								
	50 lbs.	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	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				
	74 lbs.	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 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	
245VX5B	1/2 23 lbs.	877	5625	1801		1469																				
				10.8	.50	10.5	.50																			
245VX6B	3/4 31 lbs.	1009	6471	2337		2137		1898																		
				14.5	.73	14.4	.76	14.1	.77																	
245VX7B	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													
245VX8B	1-1/2	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											
	38 lbs.	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									
245VX9B	2	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									
	50 lbs.	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							
245VX10B	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					
				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					
				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			

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										
270V8B	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								
270V9B	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						
270V9B	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				
270V9B	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				
270V9B	2 50 lbs.	732	5174	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														
270VH8B	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														
270VH9B	2 50 lbs.	872	6163	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												
270VH10B	3 74 lbs.	983	6948	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										
270VH10B	3 74 lbs.	983	6948	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								
270VH10B	3 74 lbs.	983	6948	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						
270VH10B	3 74 lbs.	983	6948	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
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								
		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								
270VX10B	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				
270VX11B	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

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
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
					875	6872	16060		15798		15533		15260		14972		14668		14347		14013		13660		12868
				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														
300VH9B	2 50 lbs.	767	6024	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												
300VH10B	3 74 lbs.	823	6463	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										
300VH11B	5 98 lbs.	963	7563	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														
				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						
				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	Sone
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 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													
300VX9B	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									
300VX10B	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							
300VX11B	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	

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	2.50	14.6	2.50				
330V11B	5 98 lbs.	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		
330V11B	5 98 lbs.	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	19.6	4.06	18.5	3.76		
330V11B	5 98 lbs.	748	6462	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 31 lbs.	319	3048	9425	8374	6939	5421																		
		346	3306	7.6 .52	7.2 .55	6.4 .57	5.6 .59																		
				10222	9257	8064	6842																		
365V7B	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																	
				12940	12183	11406	10474	9322	8485																
365V8B	1-1/2 38 lbs.	438	4185	14.2 1.34	14.1 1.39	13.2 1.43	12.4 1.16	11.6 1.49	10.9 1.53																
				13590	12870	12135	11323	10163	9336	8315															
				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															
365V9B	2 50 lbs.	460	4395	14270	13584	12887	12148	11131	10177	9427															
		483	4615	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															
				15333	14696	14050	13385	12617	11551	10780	10070														
365V10B	3 74 lbs.	519	4959	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														
		555	5303	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													
365V11B	5 78 lbs.	607	5800	17933	17389	16840	16284	15715	15096	14296	13383	12728	11446												
		659	6297	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 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	Sone
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														
				16.7	1.67	16.0	1.72	15.3	1.76	13.9	1.80	12.4	1.72													
				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													
365VH10B	3	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											
				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											
365VH11B	5	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									
				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					
365VH12B	7-1/2	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			
				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																			
				14.5	1.70	14.4	1.76	15.1	1.81	16.2	1.78																
				6269	5836			5335		4770																	
				15.8	1.92	15.7	2.00	15.9	2.06	16.7	2.08																
365VX10B	3	778	7434	6957	6591			6171			5698	5173	4532														
				18.0	2.31	17.7	2.42	17.6	2.50	17.9	2.56	18.8	2.58	19.9	2.53												
				7608	7288			6930		6526		6080		5590		5027											
				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										
365VX11B	5	909	8686	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	2.41	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						
365VX12B	7-1/2	1060	10129	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

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																		
				8.1	.66	7.6	.70	6.8	.73	6.0	.76														
402V7B	1 36 lbs.	324	3414	12836	11700	10378	8833																		
				9.7	.88	9.3	.93	8.6	.96	7.7	.99														
402V8B	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														
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	251	3219	17941		16152		13825		11666															
				9.0	1.10	8.7	1.16	7.8	1.21	6.9	1.26														
	38 lbs.	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				

Grease Terminator 2 Specifications & Dimension Data

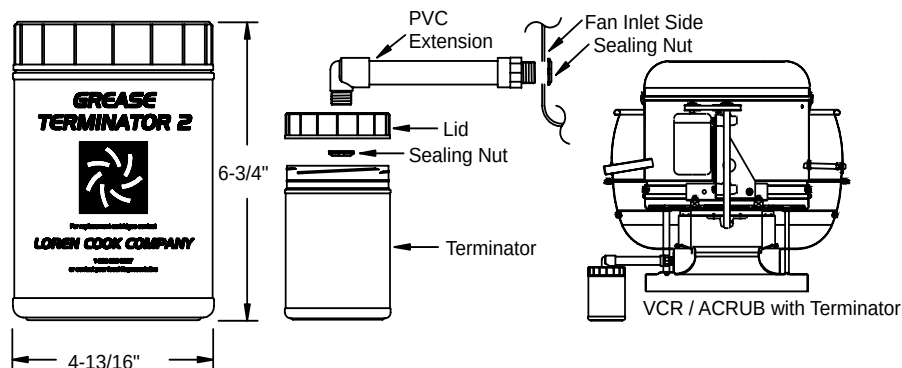
Grease Terminator 2



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). 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 back-draft 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 204-96, 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.

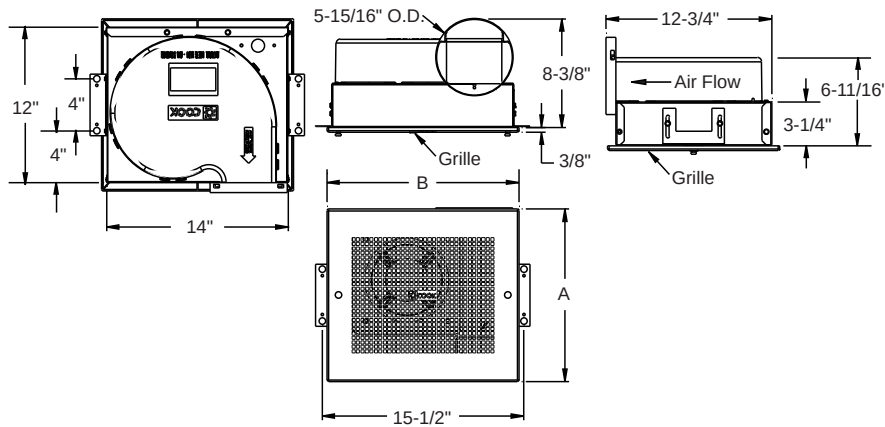
Ceiling Fans



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).



GC 122-184 Dimension Data

Grille Material	A	B
Plastic	13-1/4	14-3/4
Steel	13-1/2	15-1/2
Aluminum	12-3/4	14-3/4

All dimensions in inches.

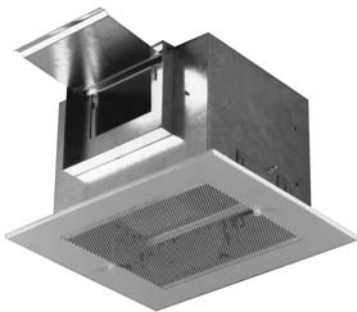
Unit Size	Approx. Ship-Wt. Lbs.
122/124	13
142/144	15
162/164	15
182/184	16

GC 122 - 184

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 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 air-stream. Speed (RPM) shown is nominal. Performance is based on actual speed of the 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 B: Free inlet fan sone levels. †HVI sones @ .1" static pressure. AMCA Certified Ratings Seal does not apply to HVI Sones.

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.

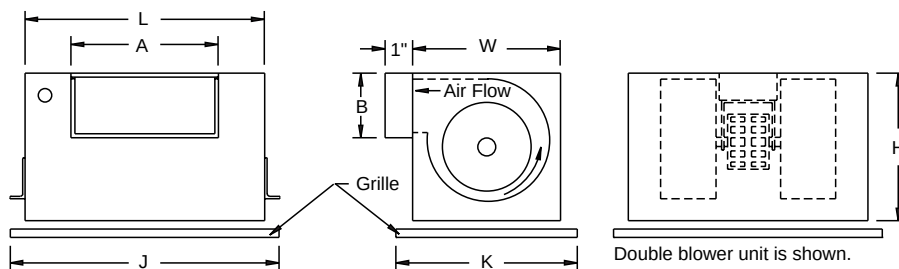
Certifications - Fan shall be manufactured by an ISO 9001 certified company. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA Certified Ratings Seal for Sound and Air Performance.

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 powder painted white steel grille shall be provided as standard. 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 204-96, 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.



GC 220-960 Dimension Data

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

All dimensions in inches.

GC 220 - 960

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-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 back-draft 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 fan 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 fan 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 204-96, 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

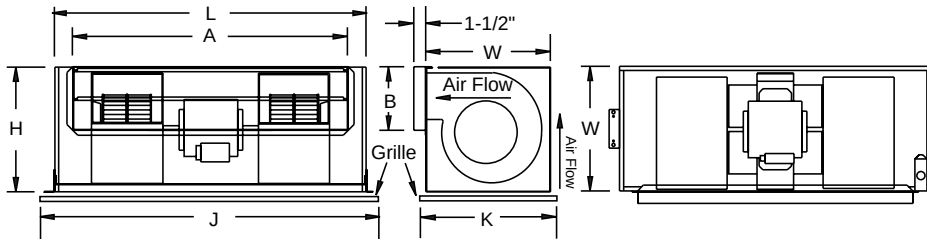


Loren Cook Company certifies that the Gemini 1000 and 2000 series are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



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

Ceiling, Wall and Cabinet Fans



GC 1000-2000 Dimension Data

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

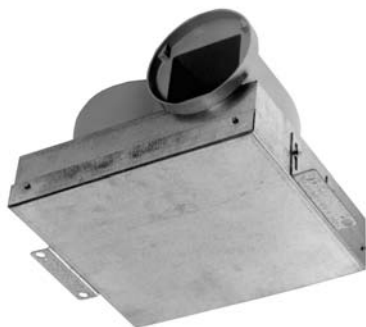
All dimensions in inches.

GC 1000 - 2000

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
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



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.

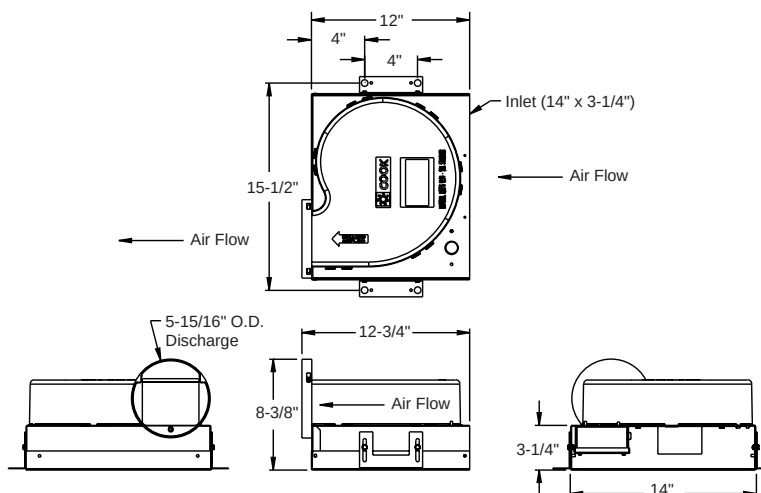
Certifications - Fan shall be manufactured by an ISO 9001 certified company. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA Certified Ratings Seal for Sound and Air Performance.

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 204-96, 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.



GN 122-184

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

GN 122 - 184

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
GN-122	49	800	0.3	57	0.4	56	0.6	55	0.6	53	0.8	51	1.2	47	1.7	40	2.5						
GN-124	65	900	0.5	77	0.7	76	0.9	76	0.9	74	1.1	70	1.4	64	1.7	57	2.7	49	4.2				
GN-142	58	1000	0.6	107	0.9	95	1.0	92	1.0	81	1.3	73	1.5	65	1.8	56	2.2	45	2.9				
GN-144	100	1100	1.5	136	1.9	132	2.0	131	2.0	126	2.2	119	2.3	110	2.5	99	2.7	86	3.2	67	3.8	42	4.6
GN-162	102	1200	1.5	147	1.9	143	2.1	142	2.1	137	2.3	132	2.4	124	2.5	113	2.7	99	3.0	78	3.3	50	3.7
GN-164	142	1300	2.5	186	3.0	182	3.1	181	3.1	175	3.1	169	3.2	160	3.2	144	3.2	127	3.3	110	3.6	78	3.8
GN-182	189	1400	4.5	228	6.0	224	5.7	223	5.7	218	5.3	212	5.1	203	4.9	189	4.7	172	4.5	155	4.3	132	4.2
GN-184	224	1500	5.0	260	6.4	253	6.2	251	6.1	241	5.8	231	5.4	220	5.1	206	4.8	187	4.7	163	4.5	141	4.4

Performance shown is for Installation Type D: Ducted inlet, ducted outlet. Performance ratings for GN-122 through GN-184 do not include the effects of appurtenances in the airstream. Speed (RPM) shown is nominal. Performance is based on actual speed of test. 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 D: Ducted inlet, ducted outlet. Ratings do not include the effect of duct end correction.†HVI sones @ .1" static pressure. AMCA Certified Ratings Seal does not apply to HVI Sones.

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 204-96, 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.

Inline Fans

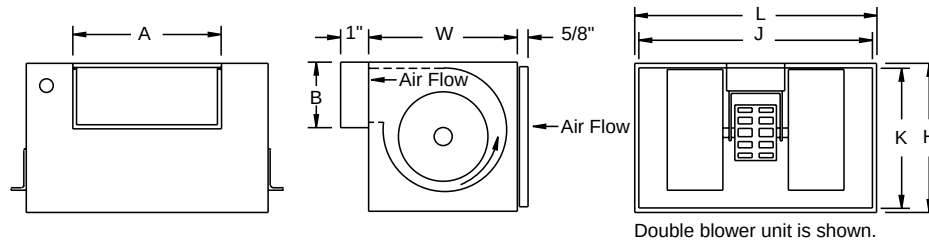


GN 220-740



GN 822-960

Ceiling, Wall and
Cabinet Fans



Double blower unit is shown.

GN 220-960 Dimension Data

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.

GN 220 - 960

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
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	387	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 fan sonest 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, ducted outlet. 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 sonest @ .1" static pressure. AMCA Certified Ratings Seal does not apply to HVI Sonest.

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.

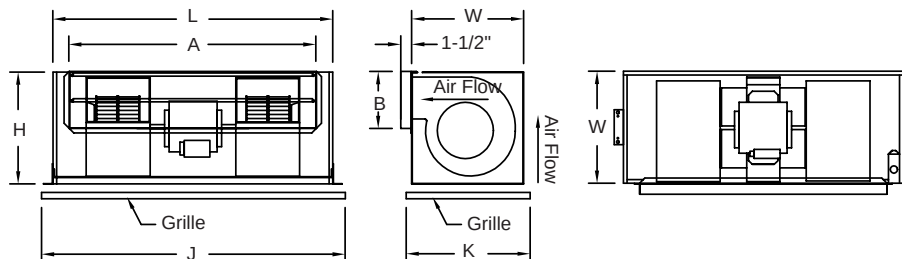
Certifications - Fan shall be manufactured by an ISO 9001 certified company. Fan shall be listed by Underwriters Laboratories (UL 705) and UL listed for Canada (cUL 705). Fan shall bear the AMCA Certified Ratings Seal for Air Performance.

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 204-96, 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.



GN 1000-2000

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.

GN 1000 - 2000

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

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 204-96, 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.

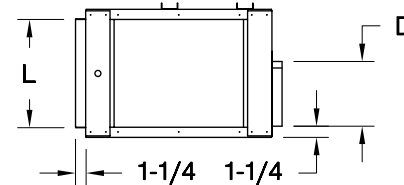
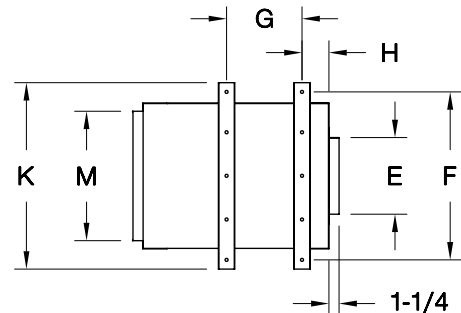
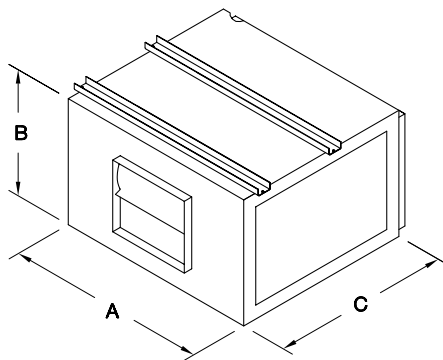
Forward Curved Wheel Duct Blower



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.



DB Dimension Data

Size	A	B	C	D O.D.	E O.D.	F	G	H	K	L O.D.	M O.D.	Ship. 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	10-5/8	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	13-7/8	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

All dimensions in inches. Weights in pounds.

8 DB

CFM	OV	.125" SP		.250" SP		.375" SP		.500" SP		.625" SP		.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
400	796	463	0.02	607	0.03																		
500	996	503	0.03	633	0.05	745	0.07																
600	1195	547	0.05	668	0.07	772	0.09	865	0.11	957	0.13												
700	1394	596	0.07	709	0.09	805	0.11	893	0.13	975	0.16	1053	0.18										
800	1593	651	0.09	751	0.12	844	0.14	926	0.17	1004	0.19	1077	0.22	1214	0.28								
900	1792	709	0.13	797	0.15	886	0.18	964	0.21	1037	0.24	1107	0.27	1237	0.33	1358	0.39						
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		
1100	2191	830	0.22	903	0.25	975	0.28	1049	0.31	1118	0.35	1180	0.38	1299	0.45	1410	0.53	1514	0.60	1614	0.67	1713	0.75
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
1300	2589	952	0.34	1019	0.38	1079	0.42	1140	0.46	1203	0.49	1265	0.53	1375	0.62	1477	0.70	1575	0.79	1668	0.87	1757	0.96
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
1500	2988	1078	0.50	1139	0.55	1194	0.60	1246	0.64	1298	0.68	1352	0.73	1460	0.82	1557	0.92	1647	1.01	1734	1.11	1818	1.21
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
1700	3386	1205	0.72	1261	0.77	1313	0.83	1360	0.88	1406	0.93	1452	0.98	1547	1.08	1642	1.18	1729	1.29	1811	1.40	1889	1.50
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		
1900	3784	1332	0.98	1384	1.05	1434	1.11	1478	1.17	1520	1.23	1561	1.28	1644	1.39	1729	1.50	1815	1.62				
2000	3984	1395	1.14	1448	1.21	1494	1.28	1538	1.34	1579	1.40	1618	1.46	1696	1.57								
2100	4183	1461	1.31	1511	1.39	1556	1.46	1598	1.52	1638	1.59	1676	1.65										
2200	4382	1527	1.50	1573	1.58	1618	1.65																

9 DB

CFM	OV	.125" SP		.250" SP		.375" SP		.500" SP		.625" SP		.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
700	833	415	0.04																				
825	982	440	0.05	567	0.07																		
950	1130	468	0.07	581	0.09	687	0.12																
1075	1279	505	0.09	602	0.12	702	0.15	790	0.18														
1200	1428	550	0.12	630	0.15	717	0.18	806	0.22	883	0.25												
1325	1577	597	0.16	658	0.19	739	0.22	820	0.26	899	0.29	969	0.34										
1450	1726	647	0.21	692	0.23	767	0.27	837	0.30	913	0.34	985	0.39										
1575	1875	696	0.27	733	0.28	795	0.32	863	0.36	929	0.40	999	0.44	1124	0.54								
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						
1825	2172	798	0.41	826	0.43	862	0.45	919	0.49	980	0.54	1035	0.59	1154	0.69	1265	0.80						
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				
2075	2470	900	0.59	924	0.61	951	0.64	986	0.67	1035	0.72	1090	0.77	1189	0.87	1294	0.99	1396	1.12	1486	1.24		
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
2325	2767	1004	0.83	1024	0.85	1046	0.87	1072	0.91	1104	0.94	1146	0.99	1243	1.11	1330	1.23	1423	1.35	1517	1.49	1603	1.64
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		
2575	3065	1107	1.12	1126	1.14	1145	1.17	1166	1.20	1189	1.23	1218	1.27	1298	1.39	1384	1.52	1463	1.65				
2700	3214	1158	1.28	1176	1.31	1195	1.34	1214	1.37	1235	1.40	1260	1.44	1327	1.55								
2800	3333	1199	1.43	1217	1.46	1235	1.49	1253	1.52	1273	1.55	1295	1.59										
2900	3452	1241	1.59	1259	1.62	1276	1.65																

10 DB

CFM	OV	.125" SP		.250" SP		.375" SP		.500" SP		.625" SP		.750" SP		1.000" SP		1.250" SP		1.500" SP		1.750" SP		2.000" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
800	771	358	0.04																				
1000	964	384	0.06																				
1200	1157	422	0.09	516	0.12																		
1400	1350	471	0.13	542	0.17	622	0.21																
1600	1542	525	0.19	576	0.22	648	0.26	716	0.31														
1800	1735	581	0.27	621	0.30	676	0.34	743	0.39	802	0.44	862	0.50										
2000	1928	639	0.36	671	0.39	714	0.43	769	0.48	829	0.53	883	0.59										
2200	2121	697	0.47	725	0.50	759	0.54	802	0.59	854	0.65	909	0.71	1006	0.84								
2400	2314	756	0.61	781	0.64	809	0.68	844	0.73	886	0.78	935	0.84	1031	0.98	1118	1.12						
2600	2507	814	0.76	837	0.80	862	0.84	891	0.89	925	0.94	965	1.00	1057	1.14	1142	1.29	1223	1.45				
2800	2700	874	0.95	895	0.99	917	1.03	942	1.08	970	1.13	1003	1.19	1083	1.33	1169	1.48	1244	1.64	1320	1.82		
3000	2892	934	1.16	952	1.20	973	1.24	995	1.29	1019	1.34	1047	1.40	1114	1.54	1194	1.70	1271	1.87	1341	2.04	1412	2.24
3200	3085	994	1.41	1012	1.45	1030	1.49	1050	1.54	1071	1.59	1095	1.65	1151	1.78	1221	1.94	1297	2.12	1367	2.30	1433	2.49
3400	3278	1053	1.68	1070	1.72	1088	1.77	1106	1.82	1125	1.87	1145	1.93	1194	2.06	1254	2.22	1323	2.40	1394	2.58	1459	2.78
3600	3471	1113	1.99	1129	2.03	1145	2.08	1162	2.13	1180	2.19	1199	2.25	1241	2.37	1292	2.53	1352	2.70	1419	2.90	1486	3.10
3800	3664	1172	2.33	1188	2.38	1204	2.43	1220	2.49	1236	2.54	1253	2.60	1291	2.73	1335	2.88	1387	3.05	1447	3.25		
4000	3857	1232	2.71	1248	2.76	1263	2.82	1278	2.88	1292	2.93	1308	2.99	1342	3.12	1382	3.27						
4050	3905	1247	2.81	1263	2.87	1278	2.93	1292	2.98	1306	3.03	1322	3.09	1356	3.23								
4100	3953	1262	2.91	1278	2.97	1292	3.03	1306	3.08	1320	3.14	1336	3.20										
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	.125" SP		.250" SP		.375" SP		.500" SP		.625" SP		.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
1300	902	354	0.08	458	0.12																		
1500	1041	379	0.10	469	0.15																		
1700	1180	399	0.14	485	0.19	567	0.24																
1900	1319	419	0.17	508	0.23	579	0.29	651	0.35														
2100	1458	450	0.23	533	0.29	596	0.35	662	0.41	726	0.48												
2300	1597	485	0.29	555	0.35	619	0.42	677	0.48	737	0.55	796	0.64										
2500	1736	521	0.37	571	0.42	644	0.50	696	0.57	751	0.64	806	0.72	911	0.90								
2700	1874	558	0.46	594	0.50	668	0.59	720	0.67	768	0.74	819	0.82	921	1.00								
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						
3100	2152	633	0.68	659	0.72	702	0.79	769	0.90	815	0.99	857	1.07	945	1.25	1034	1.45	1118	1.68				
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	1205	2.08		
3500	2430	708	0.97	731	1.01	758	1.07	804	1.15	864	1.28	906	1.38	981	1.57	1059	1.78	1139	2.01	1215	2.25		
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	1225	2.44	1297	2.71
3900	2708	785	1.33	805	1.38	825	1.43	852	1.49	898	1.60	954	1.75	1028	1.97	1095	2.18	1165	2.41	1237	2.66	1307	2.92
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	1250	2.89	1318	3.15
4300	2986	863	1.77	879	1.82	897	1.87	918	1.94	944	2.01	986	2.14	1078	2.43	1142	2.67	1202	2.90	1266	3.16	1331	3.42
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	1284	3.44	1345	3.70
4700	3263	939	2.30	955	2.36	971	2.42	988	2.47	1008	2.55	1033	2.64	1119	2.94	1192	3.24	1249	3.49	1305	3.76	1362	4.02
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	1328	4.09	1381	4.36
5100	3541	1016	2.93	1030	2.99	1045	3.05	1060	3.11	1077	3.18	1096	3.26	1151	3.49	1237	3.86	1300	4.17	1352	4.45	1403	4.72
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	1378	4.84	1427	5.12
5500	3819	1094	3.66	1108	3.73	1121	3.80	1135	3.87	1149	3.93	1165	4.01	1203	4.19	1269	4.51	1347	4.91	1403	5.24		
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				
5900	4097	1172	4.52	1185	4.59	1197	4.66	1209	4.72	1223	4.80	1236	4.87	1267	5.05	1310	5.28						
6100	4236	1211	4.99	1224	5.06	1234	5.12	1247	5.20	1260	5.28	1272	5.35										

15 DB

CFM	OV	.125" SP		.250" SP		.375" SP		.500" SP		.625" SP		.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
1800	876	313	0.10	393	0.15	461	0.20																
2200	1071	342	0.15	419	0.21	481	0.27	537	0.33														
2600	1266	377	0.23	446	0.29	507	0.36	559	0.43	607	0.51	654	0.58										
3000	1461	416	0.32	475	0.40	534	0.48	586	0.56	631	0.64	673	0.72	755	0.90								
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						
3800	1850	499	0.60	545	0.69	592	0.79	640	0.89	684	0.99	726	1.10	798	1.30	865	1.51	930	1.73	994	1.95		
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	1008	2.25	1067	2.50
4600	2240	585	1.01	624	1.12	662	1.23	701	1.35	741	1.48	780	1.60	852	1.85	916	2.09	974	2.34	1029	2.59	1083	2.85
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	1054	2.98	1105	3.25
5400	2630	673	1.59	708	1.71	741	1.84	773	1.98	806	2.12	839	2.26	906	2.55	970	2.84	1028	3.13	1081	3.42	1131	3.71
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	1108	3.90	1158	4.22
6200	3019	763	2.37	794	2.50	823	2.64	851	2.78	880	2.95	908	3.11	967	3.44	1025	3.77	1082	4.11	1135	4.44	1184	4.76
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	1162	5.02	1211	5.37
7000	3409	854	3.38	882	3.53	908	3.67	934	3.83	959	4.00	984	4.18	1034	4.54	1086	4.91	1138	5.28				
7400	3604	899	3.96	926	4.13	951	4.27	976	4.44	1000	4.62	1024	4.81	1071	5.19								
7600	3701	922	4.28	948	4.45	973	4.61	997	4.77	1021	4.95	1043	5.13										
7800	3799	945	4.62	971	4.80	995	4.96	1019	5.13	1042	5.31	1064	5.49										
8000	3896	968	4.98	993	5.16	1017	5.33	1040	5.49														
8200	3994	991	5.35																				

18 DB

CFM	OV	.125" SP		.250" SP		.375" SP		.500" SP		.625" SP		.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
3200	1091	258	0.21	323	0.29																		
3600	1227	282	0.29	330	0.36	388	0.46																
4000	1364	307	0.38	340	0.44	398	0.56																
4400	1500	334	0.51	359	0.55	404	0.66	454	0.79														
4800	1637	360	0.65	381	0.69	413	0.77	462	0.92	505	1.06												
5200	1773	387	0.82	405	0.86	430	0.93	468	1.05	514	1.22	551	1.36										
5600	1909	415	1.02	431	1.06	451	1.12	479	1.22	520	1.38	561	1.56										
6000	2046	442	1.24	457	1.29	474	1.34	496	1.43	528	1.57	568	1.76	637	2.10								
6400	2182	470	1.50	483	1.54	499	1.61	517	1.68	541	1.79	574	1.95	647	2.37								
6800	2319	498	1.80	511	1.85	524	1.90	540	1.97	559	2.06	585	2.20	654	2.62	714	3.00						
7200	2455	526	2.13	537	2.17	550	2.23	564	2.30	580	2.38	601	2.50	660	2.89	724	3.34	775	3.70				
7600	2592	554	2.50	565	2.55	577	2.61	589	2.67	603	2.75	620	2.85	668	3.17	731	3.66	786	4.10				
8000	2728	582	2.91	592	2.96	603	3.02	615	3.09	628	3.17	642	3.25	681	3.53	737	3.99	795	4.49	844	4.93		
8400	2864	609	3.34	620	3.42	630	3.47	641	3.54	652	3.61	665	3.70	698	3.95	745	4.35	802	4.89	854	5.39		
8800	3001	637	3.84	647	3.91	657	3.97	667	4.04	678	4.12	690	4.21	718	4.43	756	4.76	808	5.28				
9200	3137	665	4.39	674	4.45	684	4.52	694	4.60	704	4.67	715	4.76	739	4.95	772	5.26						
9600	3274	693	4.98	702	5.04	712	5.13	721	5.20	730	5.26	740	5.35										
9700	3308	700	5.13	710	5.22	719	5.29	728	5.36	737	5.43												
9800	3342	707	5.29	717	5.38	725	5.43	734	5.50														
9900	3376	714	5.45																				

Direct Drive



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 204-96, 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 SQN-D as manufactured by Loren Cook Company of Springfield, Missouri.



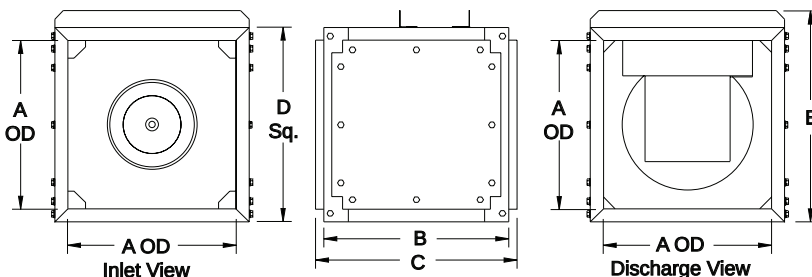
Loren Cook Company certifies that the SQN-D shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



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



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



SQN-D Dimension Data

Size	A	B	C	D Sq.	E	Inlet and Rear Discharge Duct Size (ID)	Optional Side Discharge Duct Size (WxH) (ID)	Approx. Ship Wt.-Lbs.
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.

70-165 SQN-D Performance Data

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									
*120SQN17	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								
*135SQN17	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							
*150SQN17	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					
*165SQN17	1.81 BHP	1725	2	4381	4317	4301	4222	4143	4065	3989	3913	3839	3764	3608	3436	3243	3024

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

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

Bearings - Bearings shall be designed and 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, 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 SQN-B as manufactured by Loren Cook Company of Springfield, Missouri.

Belt Drive



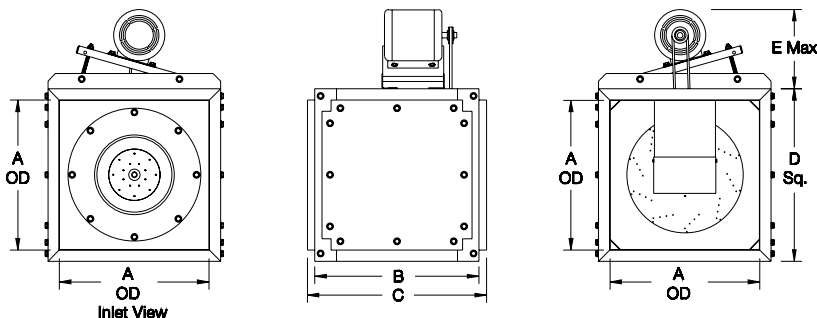
Loren Cook Company certifies that the SQN-B shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



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.



SQN-B Dimension Data

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.

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

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

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 shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. **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
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 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
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 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
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 shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Underlined figures indicate point of maximum static efficiency. **Shaded area indicates reinforced wheel required.**

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 shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. **Shaded area indicates reinforced wheel required.**

330 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
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 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
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 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
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 shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. **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.

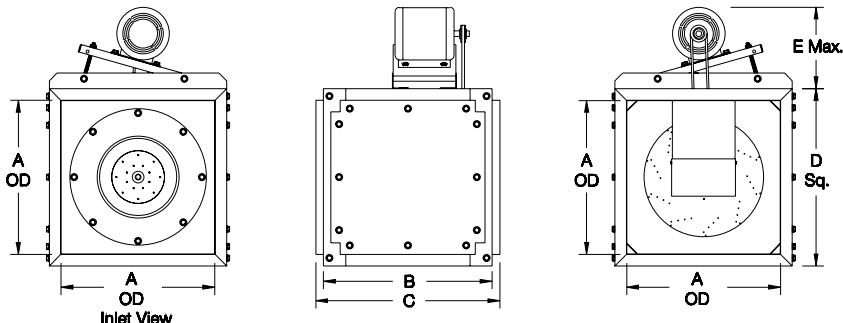
Wheel - Wheel shall be high pressure centrifugal backward inclined, constructed of 100% aluminum, including a precision machined cast aluminum hub. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-96, Balance Quality and Vibration Levels for Fans.

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

Bearings - Bearings shall be designed and individually tested specifically for use in air handling applications. Construction shall be heavy duty regreaseable 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, 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 SQN-HP as manufactured by Loren Cook Company of Springfield, Missouri.



SQN-HP Dimension Data

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.-Lbs. Less Motor and Drive
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.

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 shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. **Shaded area indicates reinforced wheel required.**

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 shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. **Shaded area indicates reinforced wheel required.**

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

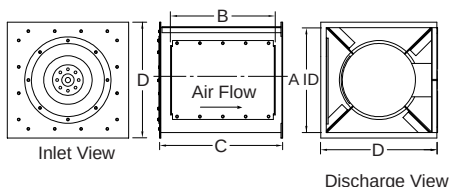
Performance shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. **Shaded area indicates reinforced wheel required.**

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 shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. **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 204-96, Balance Quality and Vibration Levels for Fans.

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

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

SQI-D Dimension Data

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.

SQI-D Performance Data

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							
*120SQ17	.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						
*135SQ17	.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					
*150SQ17	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					
*165SQ17	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 204-96, Balance Quality and Vibration Levels for Fans.

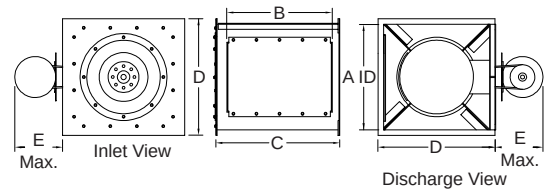
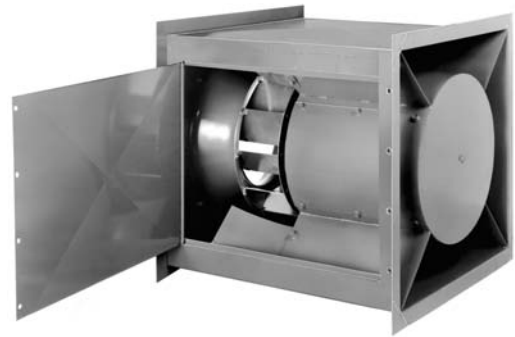
Motor: Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.

Bearings: Bearings shall be designed and individually tested specifically for use in air handling applications. Construction shall be heavy duty regreaseable 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.

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.

SQI-B Dimension Data

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	58-1/4	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.

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

150 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
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 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
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 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
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 shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. **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 shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. **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 shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. **Shaded area indicates reinforced wheel required.**

330 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
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 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
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 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
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 shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. **Shaded area indicates reinforced wheel required.**

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

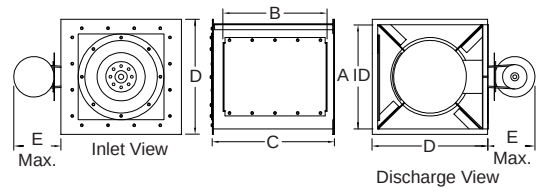
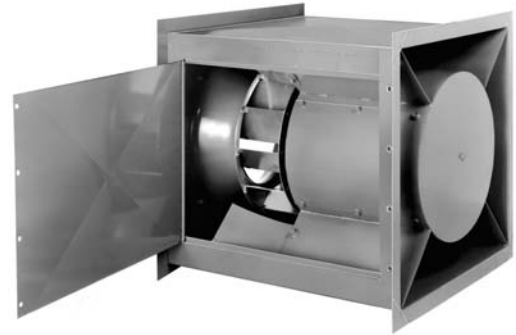
Motor: Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.

Bearings: Bearings shall be designed and 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.

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 Dimension Data

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	58-1/4	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.

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 shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Model SQI-HP is not licensed to bear the AMCA Seal. **Shaded area indicates reinforced wheel required.**

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 shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. Model SQI-HP is not licensed to bear the AMCA Seal. **Shaded area indicates reinforced wheel required.**

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

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 204-96, 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.

Centri-Vane All Aluminum Inline Centrifugal 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.

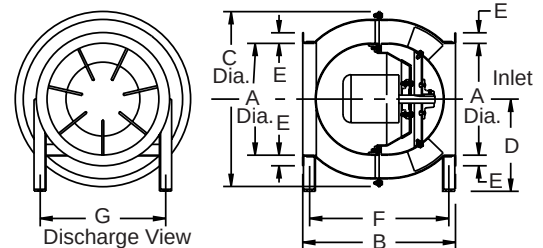


Model CVD is furnished standard with UL 705 and cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.

CVD Dimension Data

Size	A	B	C	D	E	F	G	Wheel Diameter	Thickness of Alum.	Approx. Ship. Wt. - lbs.
8	8	13-1/4	13-7/8	7		11-1/4	10-1/4	10-1/4	.100	35
10	10	15	16-3/8	8-11/16		13	12-1/4	12-15/16		65
12	12	17-1/8	19-1/4	9-15/16		15-1/8	14-1/8	15-9/16		82
14	14	19-1/8	22	11-7/16	1-5/16	17-1/8	16-1/4	18-1/4	.125	93
16	16	21-9/16	24-7/8	12-11/16		19-9/16	18-1/4	20-15/16		120
18	18	24-1/2	27-3/4	14		22-1/2	20-3/8	23-9/16		166
20	20	26-3/8	30-1/2	15-3/4		24-3/8	22-1/2	26-1/4		206

All dimensions in inches. Weights in pounds.



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	1/12	.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
16CV17D	16	2	1.729	1725	4439	3180	4367	3128	4296	3077	4198	3007	4096	2934	3985	2855	3867	2770
18CV11D	18	1	.99	1140	4321	2462	4183	2383	4040	2302	3884	2213	3708	2112	3524	2008	3345	1906
20CV11D	20	1-1/2	1.602	1140	5652	2607	5516	2544	5379	2481	5238	2416	5092	2348	4940	2278	4779	2204

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	1/12	.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				
16CV17D	16	2	1.729	1725	3733	2674	3412	2444	2998	2148	2459	1762	1996	1430	1099	787	558	399
18CV11D	18	1	.99	1140	3150	1795	2594	1478	913	520	364	207						
20CV11D	20	1-1/2	1.602	1140	4594	2119	4203	1938	3843	1772	1599	737	1037	478				

Performance shown is for installation type B- Free inlet, Ducted outlet. Performance does not include the effects of appurtenances in the airstream. 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, tubular centrifugal inline.

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

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

Bearings: Bearings shall be designed and tested specifically for use in air handling applications. Construction shall be heavy duty regreaseable 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 CVB as manufactured by Loren Cook Company of Springfield, Missouri.

Centri-Vane All Aluminum Inline Centrifugal 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.



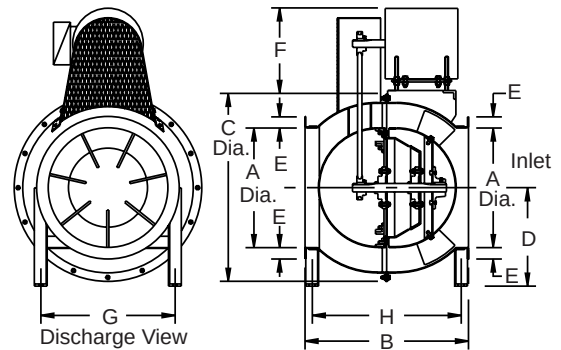
Model CVB is furnished standard with UL 705 and cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.

CVB Dimension Data

Size	A	B	C	D	E	F Max.
12	12	17-1/8	19-1/8	9-15/16	1-5/16	11-1/4
14	14	19-1/8	22	11-7/16		
16	16	21-9/16	24-7/8	12-11/16		
18	18	24-1/2	27-3/4	14		
20	20	26-3/8	30-1/2	15-3/4		13-1/4

Size	G	H	Wheel Diameter	Maximum Motor Frame	Thickness of Alum.	Approx. Ship. Wt. - lbs.
12	14-1/8	15-1/8	15-9/16	182T	.125	68
14	16-1/4	17-1/8	18-1/4			81
16	18-1/4	19-9/16	20-15/16	184T		93
18	20-3/8	22-1/2	23-9/16			175
20	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 shown is for installation type B - Free inlet, Ducted outlet. Power rating (BHP) does not include drive losses. Performance does not include the effects of appurtenances in the airstream.

18 CVB

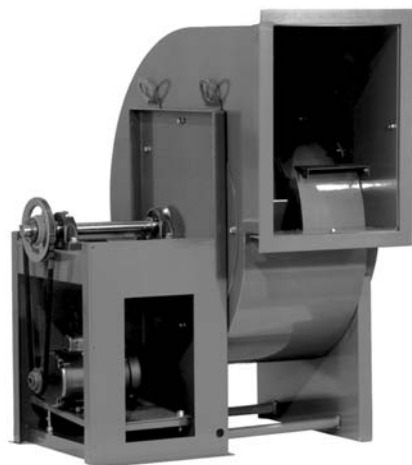
CFM	OV	Static Pressure															
		1/4" SP		1/2" SP		3/4" SP		1" SP		1-1/2" SP		2" SP		3" SP		4" SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
1500	845	655	.17	835	.31	968	.46	1080	.61	1268	.92	1428	1.27	1694	2.08	1912	2.97
1750	985	698	.21	873	.37	1009	.54	1121	.72	1308	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 shown is for installation type B - Free inlet, Ducted outlet. Power rating (BHP) does not include drive losses. Performance does not include the effects of appurtenances in the airstream.

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



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



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



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

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

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

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

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

Wheel - Wheel shall be centrifugal backward inclined, constructed of 100% aluminum, including a precision machined cast aluminum hub. Wheel hub shall be keyed and securely attached to the fan shaft. Wheel inlet shall overlap an aerodynamic aluminum inlet cone to provide maximum performance and efficiency. Wheel shall be balanced in accordance with AMCA Standard 204-96, Balance Quality and Vibration Levels for Fans.

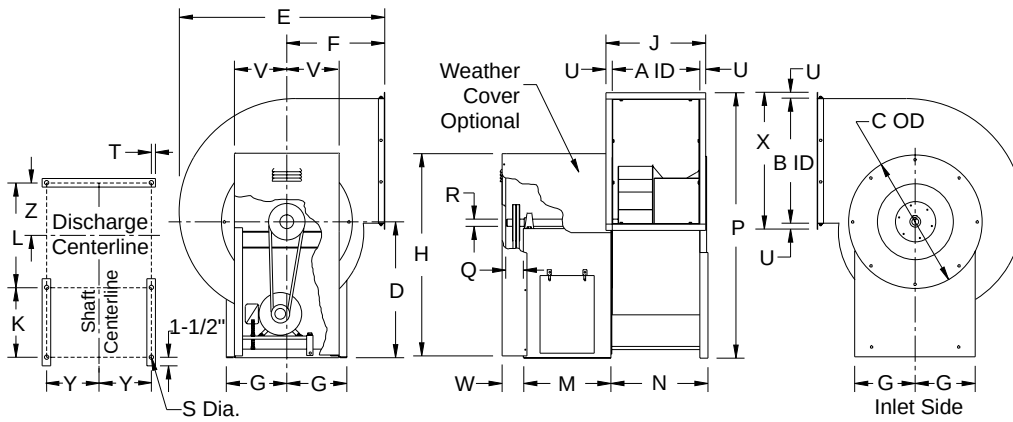
Motor - Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.

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

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

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

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


CPV Dimension Data

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

Size	N	P	Q	R	S	T	U	V	W	X	Y	Z	*Max. Motor Frame	Ship Wt.
60	9-3/8	30-3/8	3	3/4	9/16	3/4	1-1/2	8-1/16	4-1/16	14-1/16	8-5/16	4-11/16	145T	164
70	9-3/8	30-3/8	3	3/4	9/16	3/4	1-1/2	8-1/16	4-1/16	14-1/16	8-5/16	4-11/16	145T	164
80	9-3/8	30-3/8	3	3/4	9/16	3/4	1-1/2	8-1/16	4-1/16	14-1/16	8-5/16	4-11/16	145T	164
100	9-3/8	30-3/8	3	3/4	9/16	3/4	1-1/2	8-1/16	4-1/16	14-1/16	8-5/16	4-11/16	145T	164
120	11	32-9/16	3	3/4	9/16	3/4	1-1/2	8-1/16	4-1/16	16-1/4	8-5/8	5-1/2	184T	203
135	12-1/8	34-3/16	3	3/4	9/16	3/4	1-1/2	8-1/16	4-1/16	17-7/8	8-5/8	6-1/16	184T	235
150	13-1/4	37-1/8	3	3/4	9/16	3/4	1-1/2	8-1/16	4-1/16	19-9/16	8-5/8	6-5/8	184T	268
165	14-7/16	39-7/8	3	3/4	9/16	3/4	1-1/2	8-1/16	4-1/16	21-3/16	8-5/8	7-1/4	184T	303
180	15-5/8	43-1/8	3	1	9/16	3/4	1-1/2	9-1/16	4-1/16	22-13/16	9-5/8	7-13/16	215T	340
195	16-13/16	46-3/8	3	1	9/16	3/4	1-1/2	9-1/16	4-1/16	24-7/16	9-5/8	8-3/8	215T	379
210	17-15/16	49-3/4	4	1	9/16	3/4	1-1/2	10-1/16	5-1/16	26-1/8	10-5/8	9	215T	420
225	19-1/8	53	4	1	9/16	3/4	1-1/2	10-9/16	5-1/16	27-3/4	11-1/8	9-9/16	215T	465
245	21-1/8	58-1/4	4	1	11/16	1	2	11-9/16	5-1/16	30-15/16	12-3/8	10-9/16	215T	527
270	23	63-3/4	4	1	11/16	1	2	12-9/16	5-1/16	33-11/16	13-3/8	11-1/2	256T	613
300	25-15/16	71-1/4	4	1-3/16	11/16	1	2	13-9/16	5-1/16	36-15/16	14-5/16	13	256T	727

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

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

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

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

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 shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. **Shaded area indicates reinforced wheel required.**

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

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

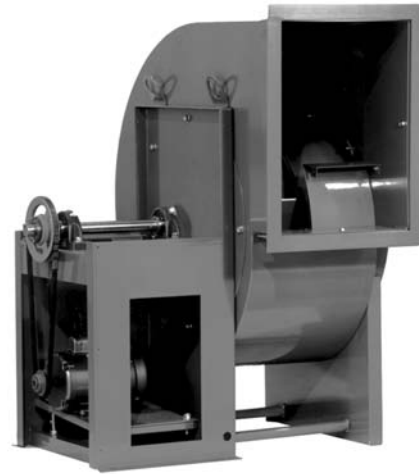
Bearings - Bearings shall be designed and tested specifically for use in air handling applications. Construction shall be heavy duty regreasable ball or roller type in a cast iron pillowblock housing selected for a minimum L50 life in excess of 200,000 hours at maximum cataloged operating speed.

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

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

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

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.



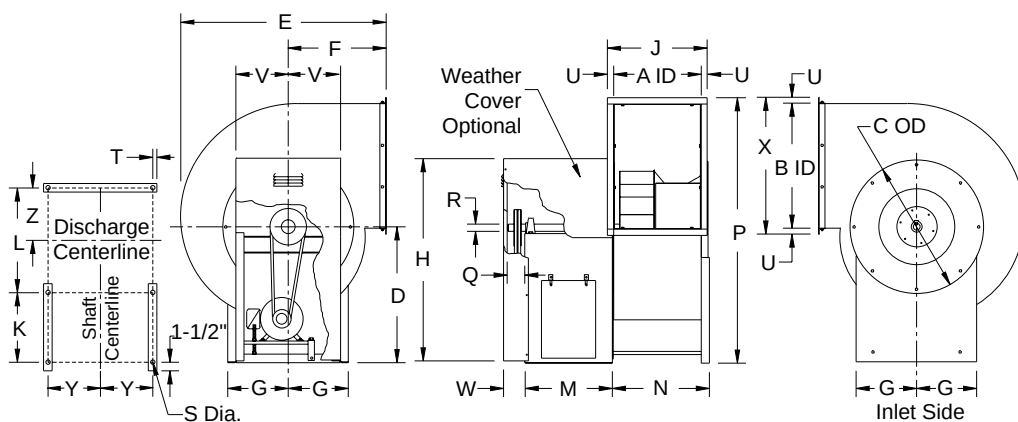
Type CPS is furnished standard with UL 705 listing (cUL 705) when furnished with factory supplied motor.



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.



CPS Dimension Data

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

Size	P	Q	R	S	T	U	V	W	X	Y	Z	*Max. Motor Frame	Ship Wt.
60	30-3/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	14-1/16	8-5/8	4-11/16	145T	173
70	30-3/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	14-1/16	8-5/8	4-11/16	145T	173
80	30-3/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	14-1/16	8-5/8	4-11/16	145T	173
100	30-3/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	14-1/16	8-5/8	4-11/16	145T	173
120	32-9/16	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	16-1/4	8-5/8	5-1/2	184T	221
135	34-3/16	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	17-7/8	8-5/8	6-1/16	184T	255
150	37-1/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	19-9/16	8-5/8	6-5/8	184T	291
165	39-7/8	3	1	9/16	3/4	1-1/2	8-1/16	4-1/16	21-3/16	8-5/8	7-1/4	184T	334
180	43-1/8	3	1-3/16	9/16	3/4	1-1/2	9-1/16	4-1/16	22-13/16	9-5/8	7-13/16	215T	396
195	46-3/8	3	1-3/16	9/16	3/4	1-1/2	9-1/16	4-1/16	24-7/16	9-5/8	8-3/8	215T	440
210	49-3/4	4	1-7/16	9/16	3/4	1-1/2	10-1/16	5-1/16	26-1/8	10-5/8	9	215T	490
225	53	4	1-7/16	9/16	3/4	1-1/2	10-9/16	5-1/16	27-3/4	11-1/8	9-9/16	215T	537
245	58-1/4	4	1-11/16	11/16	1	2	11-9/16	5-1/16	30-15/16	12-3/8	10-9/16	215T	608
270	63-3/4	4	1-11/16	11/16	1	2	12-9/16	5-1/16	33-11/16	13-3/8	11-1/2	256T	722
300	71-1/4	4	1-15/16	11/16	1	2	13-9/16	5-1/16	36-15/16	14-5/16	13	256T	879

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

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

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		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP		5.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
825	985	1449	.18	1563	.22																		
950	1134	1534	.22	1638	.26	1738	.31	1836	.36														
1075	1283	1627	.26	1724	.31	1817	.36	1906	.41	1994	.47												
1200	1433	1724	.31	1817	.36	1905	.41	1989	.47	2070	.53	2228	.65										
1325	1582	1826	.36	1915	.42	1999	.48	2079	.54	2156	.60	2304	.73	2447	.86								
1450	1731	1933	.43	2016	.49	2096	.55	2173	.61	2247	.68	2388	.81	2523	.96	2654	1.10	2783	1.26				
1575	1880	2044	.50	2122	.57	2198	.63	2271	.70	2342	.77	2478	.91	2607	1.06	2731	1.21	2851	1.37	2971	1.54		
1700	2030	2157	.58	2231	.65	2302	.72	2373	.80	2441	.87	2572	1.02	2696	1.17	2815	1.33	2930	1.50	3042	1.67	3153	1.85
1825	2179	2273	.67	2342	.75	2411	.82	2477	.90	2543	.98	2669	1.14	2789	1.30	2904	1.47	3015	1.64	3122	1.82	3227	2.00
1950	2328	2391	.78	2457	.86	2522	.94	2585	1.02	2647	1.10	2769	1.27	2885	1.44	2997	1.61	3104	1.79	3208	1.98	3308	2.16
2075	2477	2511	.89	2574	.98	2636	1.06	2696	1.15	2755	1.23	2871	1.41	2984	1.59	3092	1.77	3197	1.96	3297	2.15		
2200	2627	2632	1.02	2692	1.11	2752	1.20	2809	1.29	2866	1.38	2977	1.56	3085	1.75	3190	1.94	3292	2.14				
2325	2776	2755	1.15	2813	1.25	2869	1.35	2924	1.44	2978	1.54	3085	1.73	3189	1.93	3291	2.13						
2450	2925	2878	1.31	2933	1.41	2987	1.51	3040	1.61	3093	1.71	3195	1.91	3296	2.12								
2575	3074	3002	1.47	3056	1.58	3108	1.68	3159	1.79	3209	1.90	3307	2.11										
2700	3224	3128	1.65	3179	1.76	3229	1.88	3279	1.99	3327	2.10												
2825	3373	3253	1.85	3303	1.96	3352	2.08																
2950	3522	3381	2.06																				

135 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
1050	994	1290	0.23	1392	0.29																		
1225	1159	1375	0.28	1466	0.34	1554	0.40	1640	0.46														
1400	1325	1467	0.34	1553	0.40	1634	0.47	1712	0.54	1788	0.61												
1575	1491	1565	0.41	1646	0.48	1722	0.55	1796	0.63	1867	0.70	2003	0.86	2138	1.03								
1750	1656	1667	0.49	1743	0.57	1816	0.65	1886	0.72	1953	0.80	2082	0.97	2205	1.14	2326	1.33						
1925	1822	1774	0.59	1845	0.67	1914	0.75	1981	0.84	2045	0.92	2168	1.10	2284	1.28	2397	1.47	2507	1.67	2617	1.88		
2100	1988	1885	0.70	1951	0.79	2016	0.88	2079	0.97	2141	1.06	2259	1.24	2370	1.44	2477	1.64	2581	1.84	2682	2.06	2783	2.28
2275	2153	1998	0.83	2061	0.92	2121	1.01	2182	1.11	2240	1.21	2354	1.41	2461	1.61	2564	1.82	2663	2.03	2759	2.26	2853	2.48
2450	2319	2114	0.97	2172	1.07	2231	1.17	2287	1.27	2343	1.37	2451	1.58	2555	1.80	2655	2.02	2750	2.25	2842	2.47	2932	2.71
2625	2485	2231	1.13	2287	1.23	2342	1.34	2396	1.45	2448	1.56	2552	1.78	2652	2.01	2748	2.24	2841	2.48	2930	2.72	3017	2.96
2800	2650	2351	1.30	2403	1.42	2456	1.53	2507	1.65	2557	1.76	2656	2.00	2752	2.24	2845	2.48	2934	2.73	3022	2.98		
2975	2816	2470	1.50	2522	1.62	2572	1.74	2621	1.87	2668	1.99	2763	2.24	2854	2.49	2944	2.74						
3150	2982	2593	1.72	2641	1.85	2689	1.98	2735	2.10	2781	2.23	2872	2.50	2959	2.76								
3325	3147	2715	1.95	2761	2.09	2807	2.23	2852	2.37	2896	2.50	2983	2.78										
3500	3313	2839	2.22	2884	2.36	2928	2.51	2971	2.65	3013	2.80												
3675	3479	2962	2.50	3005	2.65																		

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

150 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
1275	976	1155	0.28	1247	0.35																		
1475	1129	1224	0.34	1307	0.41	1387	0.48	1467	0.56														
1675	1282	1300	0.40	1378	0.48	1452	0.56	1524	0.64	1594	0.73												
1875	1436	1379	0.48	1454	0.56	1524	0.65	1591	0.74	1656	0.83	1783	1.02										
2075	1589	1463	0.57	1534	0.66	1601	0.75	1665	0.84	1726	0.94	1845	1.14	1959	1.35	2072	1.58						
2275	1742	1551	0.67	1617	0.77	1681	0.87	1742	0.97	1801	1.07	1914	1.28	2021	1.50	2126	1.73	2229	1.97				
2475	1895	1642	0.79	1704	0.89	1764	1.00	1823	1.10	1880	1.21	1988	1.44	2091	1.67	2189	1.91	2286	2.16	2380	2.42		
2675	2048	1735	0.92	1793	1.03	1850	1.14	1906	1.26	1960	1.37	2065	1.61	2164	1.85	2259	2.10	2350	2.36	2440	2.63	2528	
2875	2202	1830	1.07	1885	1.19	1939	1.31	1992	1.43	2044	1.55	2145	1.80	2240	2.05	2332	2.32	2420	2.59	2505	2.86	2589	
3075	2355	1927	1.24	1979	1.36	2031	1.49	2081	1.62	2130	1.75	2227	2.01	2320	2.28	2408	2.55	2494	2.84	2576	3.12	2657	
3275	2508	2025	1.42	2075	1.56	2124	1.69	2172	1.83	2219	1.96	2311	2.24	2400	2.52	2487	2.81	2570	3.10	2650	3.40		
3475	2661	2125	1.63	2172	1.77	2219	1.91	2265	2.06	2310	2.20	2398	2.49	2484	2.79	2567	3.09	2648	3.39				
3675	2814	2225	1.85	2271	2.01	2316	2.16	2359	2.31	2402	2.46	2487	2.76	2570	3.07	2650	3.39						
3875	2967	2327	2.10	2370	2.26	2413	2.42	2455	2.58	2496	2.74	2578	3.06	2657	3.38								
4075	3121	2428	2.37	2470	2.54	2512	2.71	2552	2.87	2592	3.04	2670	3.38										
4275	3274	2532	2.67	2572	2.85	2612	3.02	2651	3.20	2689	3.37												
4475	3427	2634	2.98	2673	3.17	2712	3.36																

165 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
1575	994	1057	0.35	1140	0.43																		
1825	1152	1124	0.42	1198	0.50	1270	0.60	1341	0.69														
2075	1310	1196	0.50	1266	0.60	1332	0.69	1397	0.80	1459	0.90												
2325	1468	1272	0.60	1338	0.70	1401	0.81	1462	0.92	1520	1.03	1633	1.26										
2575	1626	1351	0.72	1414	0.83	1474	0.94	1532	1.06	1587	1.18	1693	1.42	1795	1.68	1895	1.95						
2825	1783	1434	0.85	1493	0.97	1550	1.09	1605	1.22	1658	1.34	1760	1.60	1856	1.87	1949	2.16	2041	2.45				
3075	1941	1520	1.01	1575	1.13	1629	1.26	1682	1.40	1733	1.53	1830	1.80	1922	2.09	2010	2.38	2097	2.69	2181	3.01	2265	3.34
3325	2099	1608	1.18	1660	1.31	1711	1.45	1761	1.59	1810	1.74	1903	2.03	1992	2.33	2077	2.64	2159	2.95	2239	3.28	2318	3.62
3575	2257	1698	1.37	1748	1.52	1795	1.67	1843	1.82	1889	1.97	1979	2.28	2065	2.59	2147	2.91	2226	3.25	2303	3.59	2378	3.94
3825	2415	1790	1.59	1837	1.75	1882	1.90	1927	2.06	1971	2.22	2057	2.55	2140	2.88	2220	3.22	2296	3.56	2370	3.92	2442	4.28
4075	2573	1882	1.83	1927	2.00	1971	2.17	2013	2.33	2055	2.50	2138	2.85	2217	3.19	2294	3.55	2369	3.91	2441	4.28		
4325	2731	1977	2.10	2019	2.28	2060	2.45	2101	2.63	2141	2.81	2220	3.17	2296	3.54	2371	3.91	2443	4.29				
4575	2888	2071	2.40	2112	2.59	2152	2.78	2191	2.96	2229	3.15	2304	3.53	2378	3.91	2450	4.30						
4825	3046	2167	2.72	2206	2.92	2244	3.12	2282	3.32	2319	3.52	2391	3.92	2461	4.31								
5075	3204	2263	3.08	2301	3.29	2337	3.50	2373	3.71	2409	3.92												
5325	3362	2360	3.47	2396	3.69	2432	3.91	2466	4.13														
5575	3520	2458	3.89																				

180 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
1800	957	955	0.39	1034	0.49																		
2100	1117	1015	0.48	1084	0.58	1152	0.68																
2400	1276	1080	0.57	1145	0.68	1207	0.80	1267	0.92	1326	1.04												
2700	1436	1150	0.69	1211	0.81	1270	0.93	1326	1.06	1380	1.19	1485	1.46										
3000	1595	1222	0.82	1281	0.95	1337	1.09	1390	1.22	1441	1.36	1540	1.65	1634	1.95	1728	2.28						
3300	1755	1298	0.98	1353	1.12	1406	1.26	1457	1.41	1507	1.56	1600	1.86	1689	2.18	1775	2.51	1861	2.86				
3600	1914	1378	1.16	1429	1.31	1479	1.46	1527	1.61	1575	1.78	1665	2.10	1750	2.44	1831	2.78	1911	3.14	1989	3.51	2068	3.91
3900	2074	1458	1.36	1507	1.52	1554	1.68	1600	1.85	1645	2.02	1732	2.36	1814	2.72	1892	3.08	1968	3.45	2042	3.84	2114	4.24
4200	2234	1541	1.59	1587	1.76	1632	1.94	1675	2.11	1718	2.29	1801	2.65	1881	3.03	1957	3.41	2029	3.80	2100	4.20	2169	4.61
4500	2393	1626	1.85	1669	2.03	1711	2.21	1753	2.40	1794	2.59	1873	2.97	1949	3.36	2023	3.77	2094	4.18	2162	4.60	2228	5.02
4800	2553	1712	2.13	1753	2.33	1793	2.53	1832	2.72	1871	2.92	1947	3.33	2021	3.74	2092	4.16	2160	4.58	2227	5.03		
5100	2712	1799	2.45	1838	2.66	1876	2.87	1913	3.07	1951	3.29	2023	3.71	2094	4.15	2162	4.58	2229	5.03				
5400	2872	1886	2.80	1923	3.02	1960	3.24	1996	3.46	2032	3.69	2101	4.13	2168	4.58	2235	5.05						
5700	3032	1974	3.18	2010	3.42	2045	3.65	2080	3.89	2114	4.12	2180	4.59	2245	5.06								
6000	3191	2063	3.61	2097	3.85	2131	4.10	2164	4.35	2197	4.59	2261	5.09										
6300	3351	2152	4.06	2186	4.33	2218	4.59	2250	4.85														
6600	3510	2242	4.57																				

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

195 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
2150	972	887	0.47	958	0.58																		
2500	1130	942	0.57	1006	0.69	1068	0.81	1129	0.95														
2850	1289	1003	0.68	1063	0.82	1120	0.95	1175	1.09	1229	1.24												
3200	1447	1067	0.82	1124	0.96	1178	1.11	1229	1.26	1279	1.41	1375	1.74										
3550	1605	1134	0.98	1188	1.13	1239	1.29	1288	1.45	1335	1.61	1426	1.96	1513	2.32	1599	2.70						
3900	1764	1204	1.16	1254	1.33	1303	1.50	1350	1.67	1395	1.84	1481	2.20	1563	2.58	1643	2.97	1721	3.38				
4250	1922	1277	1.38	1324	1.55	1370	1.73	1415	1.92	1458	2.10	1541	2.48	1619	2.88	1694	3.29	1767	3.71	1840	4.16	1911	4.61
4600	2080	1351	1.61	1396	1.80	1439	2.00	1481	2.19	1523	2.39	1603	2.79	1678	3.21	1750	3.64	1820	4.08	1888	4.53	1955	5.00
4950	2239	1428	1.88	1470	2.09	1510	2.29	1551	2.50	1590	2.71	1667	3.14	1740	3.58	1810	4.03	1876	4.48	1942	4.96	2005	5.44
5300	2397	1505	2.18	1545	2.40	1584	2.62	1622	2.84	1659	3.06	1732	3.51	1803	3.97	1871	4.45	1936	4.93	1999	5.42	2060	5.92
5650	2555	1584	2.52	1622	2.75	1658	2.98	1695	3.22	1731	3.45	1801	3.93	1868	4.41	1934	4.90	1997	5.41	2058	5.92		
6000	2713	1663	2.89	1699	3.13	1734	3.38	1769	3.63	1803	3.87	1870	4.37	1935	4.88	1999	5.40	2060	5.93				
6350	2872	1743	3.30	1778	3.56	1812	3.82	1845	4.08	1878	4.35	1942	4.87	2004	5.40	2065	5.94						
6700	3030	1824	3.75	1858	4.03	1890	4.30	1922	4.58	1953	4.85	2015	5.41	2074	5.96								
7050	3188	1906	4.24	1938	4.54	1969	4.83	2000	5.12	2030	5.41	2089	5.99										
7400	3347	1988	4.78	2019	5.09	2049	5.40	2078	5.70														
7750	3505	2071	5.37																				

210 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
2500	974	791	0.53																				
2950	1149	834	0.64	897	0.79	961	0.95																
3400	1325	886	0.78	943	0.93	999	1.10	1054	1.27	1109	1.46												
3850	1500	943	0.94	996	1.10	1047	1.28	1097	1.46	1146	1.65	1243	2.06										
4300	1676	1003	1.12	1054	1.31	1101	1.49	1148	1.69	1193	1.89	1281	2.31	1368	2.76								
4750	1851	1064	1.34	1113	1.53	1159	1.74	1203	1.94	1245	2.15	1327	2.59	1407	3.06	1486	3.56	1565	4.08				
5200	2026	1125	1.58	1175	1.80	1219	2.02	1261	2.24	1301	2.46	1379	2.92	1454	3.41	1526	3.91	1599	4.46	1671	5.02		
5650	2202	1185	1.84	1236	2.09	1280	2.33	1321	2.57	1361	2.81	1435	3.30	1505	3.80	1574	4.33	1641	4.88	1707	5.45	1774	6.05
6100	2377	1244	2.13	1296	2.41	1341	2.67	1383	2.94	1421	3.19	1492	3.71	1560	4.24	1626	4.79	1689	5.35	1752	5.95		
6550	2553	1305	2.46	1355	2.76	1402	3.05	1444	3.34	1482	3.61	1552	4.16	1618	4.73	1680	5.29	1741	5.88				
7000	2728	1369	2.82	1415	3.14	1461	3.45	1504	3.77	1543	4.07	1613	4.67	1677	5.26	1738	5.86						
7450	2903	1435	3.23	1476	3.55	1521	3.90	1564	4.24	1603	4.56	1674	5.21	1737	5.83								
7900	3079	1502	3.68	1541	4.02	1582	4.38	1623	4.74	1663	5.09	1735	5.79										
8350	3254	1571	4.18	1607	4.54	1645	4.91	1683	5.27	1722	5.66												
8800	3430	1642	4.74	1674	5.10	1708	5.47	1745	5.87	1783	6.27												
9250	3605	1713	5.35	1744	5.73	1776	6.12																

225 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
2850	969	737	0.61																				
3350	1139	775	0.73	835	0.90	895	1.08																
3850	1309	822	0.87	876	1.05	928	1.24	981	1.44	1033	1.66												
4350	1479	873	1.05	923	1.24	971	1.44	1018	1.65	1065	1.87	1157	2.33										
4850	1650	927	1.25	974	1.45	1020	1.67	1063	1.89	1106	2.12	1189	2.60	1272	3.12								
5350	1820	982	1.48	1028	1.71	1071	1.93	1113	2.17	1153	2.41	1230	2.91	1306	3.45	1381	4.01						
5850	1990	1037	1.74	1083	1.99	1125	2.24	1165	2.49	1203	2.74	1276	3.27	1347	3.82	1416	4.40	1484	5.00	1553	5.65		
6350	2160	1091	2.03	1139	2.31	1180	2.58	1219	2.85	1255	3.11	1325	3.66	1392	4.24	1457	4.84	1521	5.46	1584	6.11	1647	6.79
6850	2330	1145	2.35	1193	2.65	1236	2.95	1274	3.24	1310	3.53	1377	4.11	1441	4.71	1503	5.34	1563	5.98	1623	6.65		
7350	2500	1200	2.70	1247	3.03	1290	3.35	1329	3.67	1365	3.99	1430	4.60	1492	5.23	1552	5.89	1609	6.55	1666	7.24		
7850	2670	1256	3.08	1301	3.44	1344	3.79	1384	4.14	1420	4.48	1485	5.14	1545	5.80	1602	6.48	1658	7.18				
8350	2840	1315	3.52	1356	3.89	1398	4.27	1438	4.65	1475	5.02	1541	5.73	1600	6.43	1655	7.13						
8850	3011	1375	4.00	1413	4.38	1452	4.78	1492	5.19	1529	5.59	1596	6.36	1655	7.11								
9350	3181	1437	4.53	1471	4.92	1508	5.34	1546	5.77	1583	6.20	1651	7.03										
9850	3351	1499	5.11	1532	5.53	1566	5.96	1601	6.40	1637	6.85												
10350	3521	1565	5.78	1594	6.19	1625	6.63	1658	7.09														
10850	3691	1629	6.48	1656	6.90																		

Performance shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. **Shaded area indicates reinforced wheel required.**

245 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
3400	973	678	0.73																				
4000	1145	714	0.87	769	1.07	823	1.29																
4600	1317	757	1.05	807	1.26	855	1.48	902	1.72	950	1.98												
5200	1489	805	1.26	851	1.49	895	1.72	938	1.97	980	2.23	1065	2.79										
5800	1661	855	1.50	899	1.75	940	2.00	980	2.26	1019	2.54	1095	3.11	1171	3.73								
6400	1833	907	1.79	949	2.05	989	2.33	1026	2.60	1063	2.89	1134	3.49	1203	4.13	1271	4.80	1340	5.51				
7000	2005	958	2.10	1000	2.40	1039	2.70	1075	2.99	1110	3.30	1177	3.92	1241	4.58	1304	5.27	1366	5.99	1429	6.75		
7600	2176	1008	2.45	1052	2.79	1090	3.11	1125	3.42	1159	3.75	1223	4.41	1284	5.09	1343	5.80	1401	6.54	1459	7.32	1516	8.13
8200	2348	1058	2.83	1102	3.20	1141	3.56	1177	3.91	1209	4.25	1271	4.95	1330	5.67	1386	6.41	1441	7.17	1495	7.97		
8800	2520	1109	3.26	1152	3.66	1192	4.05	1228	4.43	1261	4.81	1321	5.55	1378	6.31	1432	7.08	1484	7.86	1536	8.69		
9400	2692	1162	3.73	1202	4.15	1242	4.58	1279	5.00	1312	5.41	1372	6.20	1427	6.99	1479	7.80	1530	8.63				
10000	2864	1217	4.26	1254	4.70	1292	5.16	1329	5.61	1363	6.06	1423	6.91	1478	7.76	1529	8.61						
10600	3036	1272	4.84	1307	5.31	1343	5.79	1379	6.27	1413	6.75	1475	7.68	1529	8.58								
11200	3208	1331	5.50	1362	5.97	1395	6.47	1429	6.97	1463	7.49	1526	8.50										
11800	3379	1389	6.21	1418	6.70	1449	7.22	1481	7.75	1513	8.28												
12400	3551	1450	7.02	1476	7.51	1504	8.04	1534	8.58														
13000	3723	1509	7.86	1534	8.38																		

270 CPS

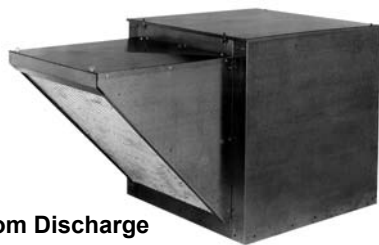
CFM	OV	1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP		5.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
4050	956	613	.87																				
4650	1098	637	1.00	689	1.24																		
5250	1239	668	1.17	715	1.42	761	1.68	807	1.97														
5850	1381	702	1.36	746	1.62	788	1.90	830	2.20	871	2.51												
6450	1523	739	1.58	780	1.86	820	2.16	858	2.46	896	2.78	970	3.45										
7050	1665	776	1.83	816	2.13	854	2.44	890	2.76	925	3.08	994	3.78	1062	4.53								
7650	1806	815	2.11	854	2.43	890	2.76	924	3.09	958	3.44	1023	4.16	1086	4.92	1149	5.74						
8250	1948	853	2.41	892	2.77	927	3.12	960	3.47	992	3.83	1054	4.58	1114	5.37	1172	6.19	1231	7.07	1290	8.00		
8850	2090	891	2.75	930	3.13	965	3.51	997	3.88	1028	4.26	1087	5.03	1144	5.84	1200	6.70	1254	7.58	1309	8.52	1363	9.49
9450	2231	928	3.11	968	3.53	1003	3.93	1035	4.33	1065	4.73	1123	5.55	1177	6.38	1230	7.26	1282	8.17	1333	9.12	1384	10.10
10050	2373	966	3.50	1006	3.96	1041	4.39	1074	4.83	1103	5.24	1159	6.10	1212	6.98	1263	7.88	1312	8.81	1361	9.78		
10650	2515	1004	3.93	1043	4.41	1079	4.88	1112	5.35	1142	5.81	1196	6.69	1248	7.62	1297	8.55	1345	9.52				
11250	2656	1043	4.39	1081	4.91	1117	5.42	1150	5.91	1180	6.40	1234	7.34	1285	8.31	1332	9.26	1379	10.30				
11850	2798	1083	4.90	1119	5.44	1154	5.97	1188	6.52	1218	7.03	1273	8.04	1322	9.03	1369	10.00						
12450	2940	1125	5.46	1158	6.01	1192	6.58	1225	7.15	1256	7.70	1311	8.77	1360	9.82								
13050	3082	1168	6.08	1198	6.63	1230	7.22	1262	7.81	1293	8.40	1349	9.55										
13650	3223	1211	6.74	1239	7.31	1269	7.91	1300	8.53	1331	9.17	1387	10.40										
14250	3365	1255	7.45	1281	8.04	1309	8.66	1339	9.31	1368	9.95												
14850	3507	1300	8.24	1324	8.83	1350	9.46	1378	10.10														
15450	3648	1345	9.08	1368	9.69																		

300 CPS

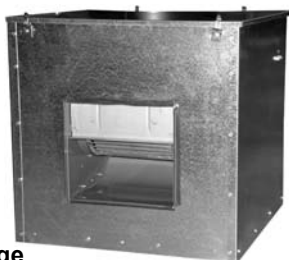
CFM	OV	1.000 SP		1.250 SP		1.500 SP		1.750 SP		2.000 SP		2.500 SP		3.000 SP		3.500 SP		4.000 SP		4.500 SP		5.000 SP	
		RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
5000	956	551	1.07																				
5750	1100	574	1.24	621	1.54																		
6500	1243	602	1.44	644	1.75	685	2.08	727	2.44														
7250	1387	633	1.68	672	2.01	710	2.36	747	2.72	784	3.10												
8000	1530	667	1.97	704	2.32	739	2.67	774	3.06	807	3.44	874	4.28										
8750	1674	701	2.28	736	2.64	770	3.03	803	3.43	834	3.83	896	4.69	957	5.62								
9500	1817	736	2.63	771	3.03	803	3.44	834	3.85	864	4.28	922	5.16	979	6.12	1035	7.12						
10250	1961	771	3.02	805	3.45	837	3.88	867	4.32	896	4.77	951	5.70	1004	6.66	1057	7.70	1109	8.77	1162	9.93		
11000	2104	805	3.44	840	3.91	872	4.38	901	4.85	929	5.32	982	6.28	1033	7.29	1082	8.33	1131	9.43	1180	10.60	1229	11.80
11750	2248	839	3.89	875	4.41	907	4.92	935	5.41	962	5.90	1014	6.92	1063	7.97	1110	9.04	1157	10.2	1203	11.40	1248	12.60
12500	2391	873	4.38	909	4.95	941	5.49	970	6.02	997	6.55	1047	7.61	1095	8.72	1140	9.82	1185	11.00	1228	12.20		
13250	2535	908	4.92	943	5.52	976	6.12	1005	6.69	1032	7.26	1081	8.37	1127	9.50	1171	10.70	1214	11.90				
14000	2678	944	5.51	978	6.16	1010	6.79	1040	7.41	1067	8.01	1116	9.19	1161	10.40	1204	11.60	1245	12.80				
14750	2822	981	6.16	1013	6.83	1044	7.49	1074	8.16	1102	8.82	1151	10.1	1195	11.30	1237	12.60						
15500	2965	1019	6.87	1048	7.55	1078	8.24	1108	8.96	1136	9.65	1186	11.00	1230	12.30								
16250	3109	1058	7.64	1085	8.34	1114	9.08	1142	9.81	1170	10.50	1221	12.00										
17000	3252	1098	8.49	1123	9.21	1149	9.94	1177	10.70	1204	11.50												
17750	3396	1138	9.40	1161	10.10	1186	10.90	1212	11.70	1238	12.50												
18500	3539	1179	10.4	1201	11.20	1224	11.90	1248	12.70														

Performance shown is for Installation Type B: Free Inlet, Ducted Outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. **Shaded area indicates reinforced wheel required.**

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

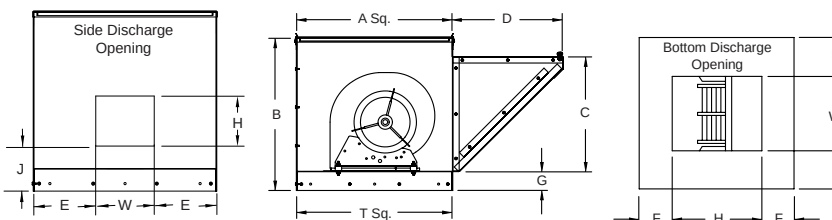
Motor - Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.

Bearings (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 regreaseable 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.



KSPB Dimension Data

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.

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

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

Bearings - Bearings shall be 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

Bottom



Side



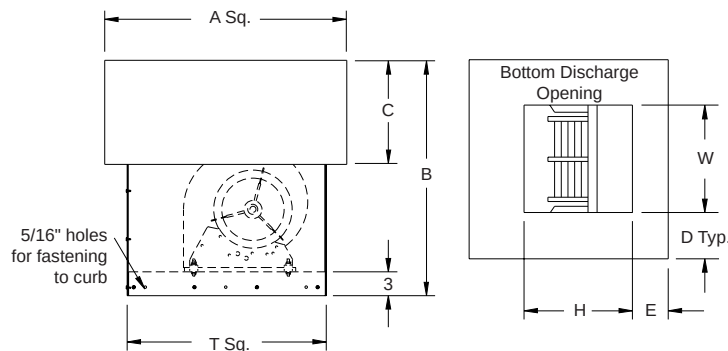
Loren Cook Company certifies that the ASP shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



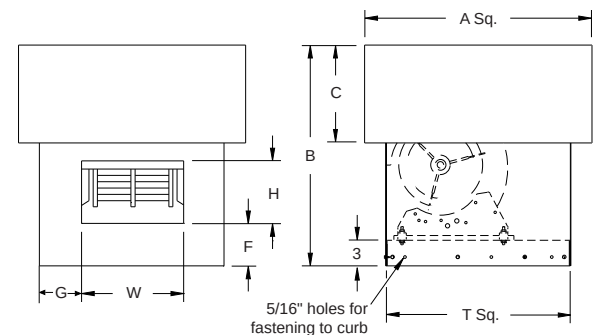
Type ASP is furnished standard with UL 705 and cUL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.

Centrifugal Filtered
Supply Fans

Bottom



Side



ASP Discharge Dimension Data

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.

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	3.10
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	835	190	0.08	275	0.14	341	0.21	399	0.28																
2850	972	221	0.13	295	0.20	359	0.27	412	0.35	461	0.43														
3250	1108	252	0.19	318	0.27	378	0.35	429	0.44	474	0.52	517	0.62												
3650	1244	283	0.27	343	0.36	398	0.45	447	0.54	491	0.64	531	0.74	569	0.84										
4050	1381	314	0.36	368	0.46	419	0.56	466	0.67	509	0.78	548	0.89	583	0.99	652	1.22								
4450	1517	345	0.48	395	0.59	442	0.70	486	0.82	527	0.93	566	1.05	600	1.17	665	1.41	728	1.67						
4850	1654	376	0.63	422	0.74	465	0.86	507	0.98	547	1.11	584	1.24	618	1.37	681	1.63	739	1.89						
5250	1790	407	0.79	450	0.92	490	1.04	529	1.18	567	1.32	603	1.46	637	1.60	698	1.87	754	2.15	807	2.44				
5650	1927	438	0.99	478	1.12	516	1.26	553	1.40	588	1.54	622	1.69	655	1.84	716	2.14	771	2.44	822	2.74	872	3.06	921	3.40
6050	2063	469	1.22	507	1.36	542	1.50	577	1.65	610	1.80	643	1.96	675	2.12	735	2.45	789	2.77	839	3.09	886	3.41	932	3.75
6450	2199	500	1.47	535	1.62	569	1.78	602	1.94	634	2.10	665	2.26	695	2.43	753	2.77	807	3.12	856	3.46	902	3.80	946	4.14
6850	2336	531	1.76	565	1.93	596	2.09	627	2.25	658	2.43	688	2.60	717	2.78	772	3.13	825	3.50	874	3.86	920	4.23	962	4.58
7250	2472	562	2.09	594	2.27	624	2.44	653	2.60	682	2.78	711	2.97	739	3.16	793	3.54	844	3.92	893	4.31	938	4.70	980	5.07
7650	2609	593	2.46	624	2.65	652	2.82	680	3.00	708	3.19	735	3.38	762	3.58	814	3.98	863	4.37	911	4.78				
8050	2745	625	2.88	654	3.07	680	3.24	707	3.44	733	3.63	759	3.82	785	4.03	835	4.44	883	4.86						
8450	2881	656	3.32	683	3.52	709	3.71	734	3.91	759	4.11	784	4.31	809	4.53	857	4.96								
8850	3018	687	3.82	713	4.03	737	4.22	762	4.43	786	4.64	810	4.86	834	5.08										
9250	3154	718	4.36	743	4.58	767	4.79	790	5.00																
9650	3291	749	4.95																						

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 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.

Wall Fan
Aluminum Propeller
Direct Drive



Loren Cook Company certifies that the SWD 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 SWD is furnished standard with UL 705 listing (Power Ventilator/ZACT) when furnished with factory supplied motor.



Model SWD is furnished standard with cUL 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 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 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 204-96, Balance Quality and Vibration Levels for Fans.

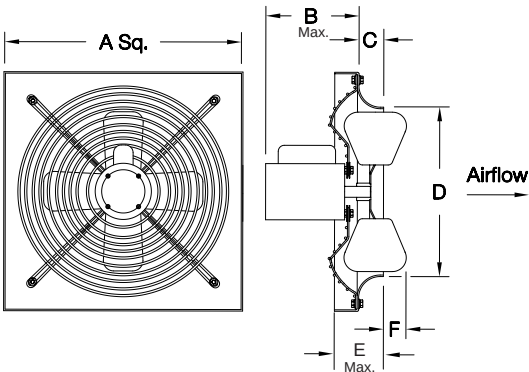
Motor - Motor shall be 115/1/60, open drip-proof type.

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

SWD Dimension Data

SIZE	A	B	C	D	E	F	WALL OPENING*	SHIPPING WEIGHT
8	12-3/16	3-1/4	1	8-3/4	2	1/2	12-7/16	12
10	16-3/16	4-3/4	1-1/2	10-3/4	2	1-1/8	16-7/16	20
12	16-3/16	4-3/4	1-3/4	12-3/4	2	1-1/16	16-7/16	22
14	20-3/16	5-13/16	2-1/2	14-3/4	2	1-1/2	20-7/16	26
16	20-3/16	5-13/16	2-1/2	16-3/4	2	1-1/4	20-7/16	30
18	24-3/16	5-13/16	2-3/4	18-3/4	2	1-1/4	24-7/16	34
20	24-3/16	5-13/16	2-3/4	20-3/4	2	1-1/2	24-7/16	40
24	30-3/16	6-1/16	3-3/4	25	2-7/8	1-5/16	30-7/16	48

All dimensions in inches. Weight in pounds. *See pages 21-22 of the Propeller Wall Catalog for accessory wall opening.



SWD - Direct Drive

Fan Size	Catalog Number	Mtr. HP	Max. BHP	RPM	FA Sones	CFM vs. Static Pressure					
						0.00	0.100	0.125	0.250	0.375	0.500
8	8S15D	1/80	0.01	1250	3.8	168					
				1350		181	82				
				1450		195	95	83			
				1550		208	110	97			
				1690		227	143	116			
10	10S15D	1/25	0.10	1050	7.1	591	249	200			
				1150		648	307	263			
				1250		704	500	323			
				1350		760	580	487			
				1450		817	647	604			
12	12S15D	1/8	0.19	1550	11.1	873	712	676	320		
				850		814	361	283			
				950		910	534	403			
				1050		1006	722	566			
				1150		1102	844	773			
				1250		1198	956	903	461		
				1350		1293	1070	1016	578		
				1450		1389	1195	1127	725		
				1550		1485	1327	1245	958	587	
14	14S10D	1/6	0.14	1615	7.9	1547	1409	1328	1075		
				650		1091	498				
				750		1259	728	607			
				850		1426	1023	845			
				950		1594	1262	1143			
				1050		1762	1490	1382	836		
16	16S10D	1/6	0.21	1130	10.1	1896	1657	1568			
				650		1490	810				
				750		1720	1201	999			
				850		1949	1511	1379			
				950		2178	1798	1689	1007		
				1050		2408	2071	1976	1362		
18	18S10D	1/3	0.51	1115	12.8	2557	2244	2156			
				650		2261	1360	1213			
				750		2608	1991	1607	706		
				850		2956	2448	2290	1198		
				950		3304	2886	2735	1848	1001	
				1050		3652	3310	3173	2234	1540	
20	20S10D	1/3	0.50	1095	15.8	3808	3490	3370	2404	1942	1148
				650		2917	2122	1839			
				750		3366	2740	2524	1224		
				850		3815	3289	3129	2006	1059	
				950		4264	3797	3675	2822	1734	
				1050		4713	4289	4184	3501		
24	24S10D	1/2	0.68	1075	16.8	4825	4410	4309	3660		
				650		4091	3408	3206	1878		
				750		4721	4148	3986	2941	1928	
				850		5350	4858	4720	3905	3026	2081
				950		5979	5547	5429	4785	3868	2975
				1050		6609	6222	6119	5557		

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. AMCA certified sound ratings only apply to motor RPM without speed controller, i.e. maximum RPM for each size.

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.

Description - Fan shall be a wall mounted, belt driven, steel propeller exhaust or 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 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. 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 204-96, Balance Quality and Vibration Levels for Fans.

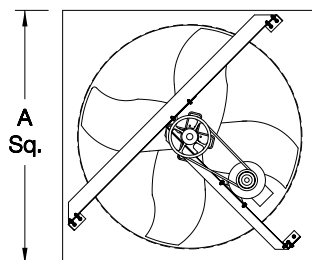
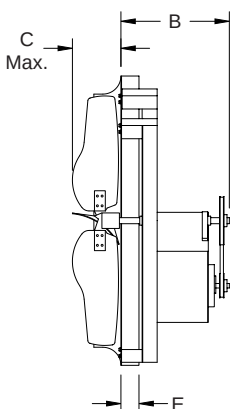
Motor - Motor shall be heavy duty type with permanently lubricated sealed ball bearings and furnished at the specified voltage, phase and enclosure.

Bearings - Bearings shall be designed and 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.

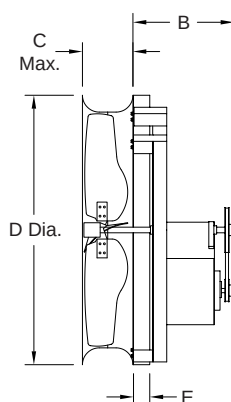
Belts and Drives - Belts shall be oil and heat resistant, non-static type. Drives shall be precision machined cast iron type, keyed and securely attached to the wheel and motor shafts. Drives shall be sized for 150 percent of the installed motor horsepower. The variable pitch motor drive must be factory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

Product - Fan shall be the X.STREAM series as manufactured by Loren Cook Company of Springfield, Missouri.

EXHAUST - XLW/XMW



SUPPLY - XLW-S/XMW-S



XLW/XMW Dimension Data

SIZE	A	B	C	D	E	WALL OPENING*	SHIPPING WEIGHT	
							XLW / XMW	XLW-S / XMW-S
20	24-3/16	14-5/16	5-1/4	24	2	24-7/16	118	121
24	30-3/16	14-5/16	6-3/4	30	3	30-7/16	125	128
30	36-3/16	14-5/16	6-3/4	36	3	36-7/16	148	152
36	42-3/16	14-5/16	7-3/8	42	3	42-7/16	179	184
42	48-3/16	18-1/16	7-9/16	48	3	48-7/16	240	245
48	54-3/16	18-1/16	7-7/8	54	3	54-7/16	275	282
54	60-3/16	18-1/16	7-3/4	60	3	60-7/16	329	337
60	66-3/16	18-1/16	7-7/8	66	3	66-7/16	365	375

All dimensions in inches. Weight in pounds, less motor. *See pages 21-22 of the Propeller Wall Catalog for accessory wall opening.

Description - Fan shall be a wall mounted, belt driven, steel propeller exhaust or 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 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 204-96, Balance Quality and Vibration Levels for Fans.

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

Bearings - Bearings shall be designed and 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, 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 the X.STREAM series as manufactured by Loren Cook Company of Springfield, Missouri.

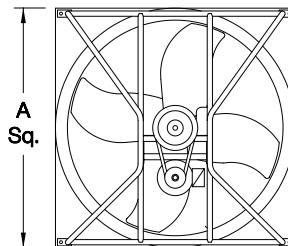
Wall Fan Heavy Duty Low and Medium Pressure Steel Propeller Belt Drive



Loren Cook Company certifies that the XLWH and 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, XLWH-S and XMWH-S are furnished standard with UL 705 and cUL 705 listing (Power Ventilator) when furnished with factory supplied motor.

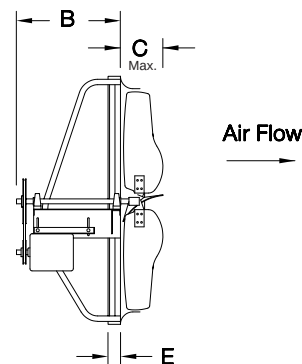


XLWH / XMWH Dimension Data

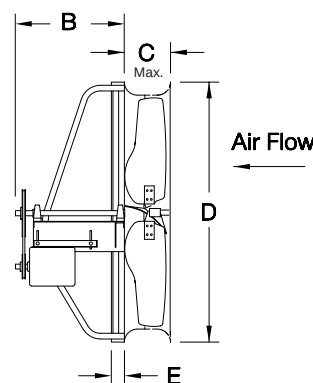
SIZE	A	B	C	D	E	WALL OPENING*	SHIPPING WEIGHT	
							XLWH / XMWH	XLWH-S / XMWH-S
20	24-3/16	19-1/16	5-1/4	24	2	24-7/16	133	136
24	30-3/16	19-1/16	6-3/4	30	3	30-7/16	143	146
30	36-3/16	19-1/16	6-3/4	36	3	36-7/16	168	171
36	42-3/16	19-1/16	7-3/8	42	3	42-7/16	203	208
42	48-3/16	20-11/16	7-9/16	48	3	48-7/16	267	272
48	54-3/16	26-5/16	7-7/8	54	3	54-7/16	338	344
54	60-3/16	26-5/16	7-3/4	60	3	60-7/16	412	419
60	66-3/16	26-5/16	7-7/8	66	3	66-7/16	454	462

All dimensions in inches. Weight in pounds, less motor. *See pages 21-22 of the Propeller Wall Catalog for accessory wall opening.

EXHAUST - XLWH / XMWH



SUPPLY - XLWH-S / XMWH-S



XLW/XMW - Belt Drive

Fan Size	Catalog Number	Mtr. HP	Max. BHP	RPM	FA Sones	CFM vs. 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	.17	753	13.4	4233	3550	3365	1969					
			.2	799	14.9	4491	3852	3681	2495					
			.24	846	16.5	4755	4154	3996	3062	1610				
		1/3	.29	890	18.0	5003	4433	4285	3450	2067				
			.33	935	19.6	5256	4715	4575	3808	2543				
		1/2	.41	1005	22	5649	5147	5019	4331	3415	2137			
			.5	1074	24	6037	5568	5449	4822	4091	2878	1909		
		3/4	.62	1154	27	6487	6051	5941	5368	4732	3860	2724	1866	
			.76	1235	30	6942	6536	6433	5905	5335	4679	3585	2661	
		1	.9	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 / XMW - Belt Drive

Fan Size	Catalog Number	Mtr. HP	Max. BHP	RPM	FA Sones	CFM vs. Static Pressure								
						0.000	0.100	0.125	0.250	0.375	0.500	0.625	0.375	1.000
30	30XLW/ 30XLWH	1/4	0.16	387	6.9	6257	3682	2160						
			0.20	411	7.7	6645	4420	3404						
			0.23	435	8.5	7033	5136	4187						
		1/3	0.26	458	9.3	7405	5708	4894						
			0.30	481	10.1	7777	6220	5594						
		1/2	0.41	517	11.5	8359	6967	6495	2260					
			0.47	552	13.1	8924	7657	7256	3197					
		3/4	0.59	594	15.0	9603	8454	8108	5261					
			0.75	635	17.0	10266	9209	8903	6523	2822				
		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	
	30XMW/ 30XMWH	1/4	0.14	472	7.3	5636	4049	3502						
			0.16	502	8.1	5995	4534	4088						
			0.19	531	8.9	6341	4980	4582						
		1/3	0.28	559	9.8	6675	5394	5034	2373					
			0.31	587	10.7	7010	5795	5467	2797					
		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	724	15.5	8645	7662	7418	6026	3502				
			0.75	775	17.3	9254	8335	8107	6872	4679	3092			
		1	0.84	815	18.8	9732	8857	8640	7500	6006	3729			
			1.02	855	20	10210	9375	9168	8105	6818	4353	3239		
		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	4107
36	36XLW/ 36XLWH	1/4	0.17	304	5.7	8276	3270							
			0.21	323	6.4	8793	5169	2520						
			0.24	342	7	9311	6045	3761						
		1/3	0.28	360	7.7	9801	6891	5722						
			0.32	378	8.3	10291	7641	6557						
		1/2	0.4	406	9.4	11053	8663	7860						
			0.49	434	10.5	11815	9636	8971						
		3/4	0.61	466	12	12687	10748	10107	4318					
			0.74	499	13.5	13585	11883	11250	6254					
		1	0.86	525	14.8	14293	12746	12156	8843					
			1.03	551	16	15001	13578	13051	10043	3815				
		1-1/2	1.23	592	18	16117	14845	14412	11862	6497				
			1.56	633	20	17233	16073	15710	13380	10375	4223			
		2	1.75	665	22	18104	17014	16693	14501	11833	6517			
			2.09	697	23	18975	17946	17651	15610	13339	8212	4176		
	36XMW/ 36XMWH	1/3	0.16	350	7.4	7778	4625	2977						
			0.22	394	9.4	8755	6237	5269						
			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	

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

XLW / XMW - Belt Drive

Fan Size	Catalog Number	Mtr. HP	Max. BHP	RPM	FA Sones	CFM vs. 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	7.8	11511	4688							
			0.33	283	9.2	12529	7786	4618						
		1/2	0.41	304	10.7	13459	9795	7690						
			0.50	325	12.0	14388	11172	9618						
		3/4	0.62	349	13.4	15451	12553	11586						
			0.76	374	14.9	16558	13903	13119						
		1	0.89	393	16.1	17399	14894	14189						
			1.02	412	17.2	18240	15866	15218	7486					
		1-1/2	1.18	432	18.4	19125	16872	16270	11044					
			1.35	452	19.6	20011	17866	17300	12757					
		2	1.55	473	21	20940	18897	18364	14892					
			1.80	497	23	22003	20064	19561	16608	8563				
		3	2.08	522	25	23110	21268	20794	18147	12938				
			2.57	560	29	24792	23079	22641	20298	16328	8557			
			3.14	599	33	26519	24921	24514	22385	19697	14577			
	42XMW/ 42XMWH	1/3	0.18	274	8.6	9535	5791							
			0.33	333	12.8	11588	9315	8183						
		1/2	0.41	358	14.1	12458	10443	9652						
			0.50	383	15.5	13328	11472	10920						
		3/4	0.62	412	17.1	14338	12620	12166	6629					
			0.77	441	18.8	15347	13744	13338	9794					
		1	0.88	463	20	16112	14585	14203	11126					
			1.02	486	22	16913	15458	15094	12439	6546				
		1-1/2	1.27	522	25	18166	16811	16473	14504	10207				
			1.55	558	29	19418	18151	17835	16167	13109	7305			
		2	1.79	586	32	20393	19186	18885	17344	14697	9703			
			2.08	615	35	21402	20252	19965	18517	16423	13168	7453		
		3	2.58	661	40	23003	21933	21666	20328	18807	16084	11474		
			3.14	706	43	24569	23567	23317	22065	20758	18717	16063	10793	
48	48XLW/ 48XLWH	1/2	0.32	238	7.9	14886	6610							
			0.50	274	10.3	17138	12729	10009						
		3/4	0.62	294	11.8	18389	14445	12959						
			0.76	315	13.5	19702	16131	15004						
		1	0.88	331	14.6	20703	17383	16338						
			1.02	347	15.8	21703	18605	17624						
		1-1/2	1.26	373	17.6	23330	20531	19661	9987					
			1.54	399	19.4	24956	22394	21629	15859					
		2	1.78	419	21	26207	23793	23098	18699					
			2.08	440	23	27520	25242	24605	20738					
		3	2.56	472	25	29522	27419	26847	23423	16878				
			3.13	505	28	31586	29632	29113	26053	21901				
	48XMW/ 48XMWH	1/2	0.24	250	8.0	13203	6474							
			0.50	318	12.5	16794	13158	12047						
		3/4	0.62	342	14.1	18061	14702	13802						
			0.75	366	15.7	19328	16194	15393						
		1	0.86	384	16.9	20279	17291	16540						
			1.02	403	18.1	21282	18432	17724	11547					
		1-1/2	1.25	433	20	22867	20210	19554	15549					
			1.54	463	23	24451	21963	21348	18058					
		2	1.80	487	25	25718	23351	22765	19748	13036				
			2.04	510	26	26933	24671	24110	21275	16615				
		3	2.55	548	30	28940	26833	26310	23701	20643	12577			
			3.10	586	34	30947	28975	28485	26053	23468	18778			

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 / XMW - Belt Drive

Fan Size	Catalog Number	Mtr. HP	Max. BHP	RPM	FA Sones	CFM vs. 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	0.87	208	9.5	27823	22101	19473						
			1.60	255	13.1	34111	29864	28488						
		2	1.92	268	14.3	35849	31924	30599	22613					
			2.16	281	15.4	37588	33908	32725	25174					
		3	2.63	301	17.1	40264	36853	35906	28794					
			3.38	322	19.1	43073	39876	39075	33558					
		5	3.90	342	21	45748	42718	41998	37241	30432				
			4.58	362	23	48424	45538	44868	40510	34039				
		7-1/2	5.57	383	26	51233	48483	47850	43926	38303				
			5.98	394	27	52704	50021	49403	45727	41015	34971			
			6.44	405	28	54176	51555	50952	47510	43210	36979			
			7.28	416	29	55647	53087	52495	49263	45131	38946	33942		
			7.74	427	30	57118	54618	54037	50983	46958	40972	36449		
			8.23	440	32	58857	56423	55855	52966	49072	43675			
	60XMW/ 60XMWH	1-1/2	0.58	225	9.7	24365	18108	16377						
			1.01	266	12.8	28805	23299	22149	13779					
			1.52	307	16.2	33245	28177	27207	21351	9994				
		2	1.80	323	17.7	34978	30055	29115	23911	15943				
			2.04	338	19.1	36602	31805	30888	26154	19614				
			2.36	355	21	38443	33785	32885	28528	22634	11610			
		3	2.75	372	22	40284	35762	34869	30782	25487	17908			
			3.10	388	24	42017	37623	36738	32826	28094	22200			
			3.68	412	27	44615	40400	39527	35795	31748	26487	15824		
		5	4.38	436	29	47214	43179	42319	38697	35105	30497	25254	14386	
			5.25	461	31	49922	46052	45212	41675	38399	34462	29676	23946	

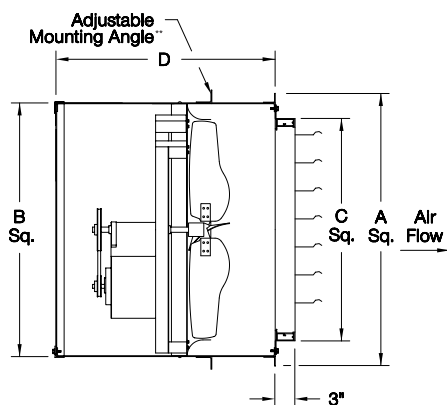
Performance shown is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free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

Packaged Wall Fan Low and Medium Pressure Steel Propeller Belt Drive

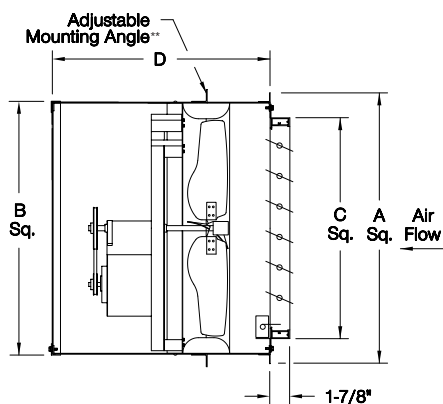


Models XLP, XLPH, XMP, XMPH, XLP-S, XLPH-S, XMP-S and XMPH-S are furnished standard with UL 705 and cUL 705 listing (Power Ventilator) when furnished with factory supplied motor.

EXHAUST - XLP / XLPH / XMP / XMPH



SUPPLY - XLP-S / XLPH-S / XMP-S / XMPH-S



Description - Fan shall be a wall mounted, belt driven, steel propeller exhaust or supply 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 204-96, 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 heavy duty type with permanently lubricated sealed ball bearings 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 regreaseable 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, 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 the X.STREAM series as manufactured by Loren Cook Company of Springfield, Missouri.

XLP / XLPH / XMP / XMPH Dimension Data

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	27-12	25	22	34-3/8	25-1/4	18 GA.	180	183	195	198
24	33-1/2	31	27-1/2	34-3/8	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	39-12	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.

XLP / XMP - Belt Drive

Fan Size	Catalog Number	Mtr. HP	Max. BHP	RPM	FA Sones	CFM vs. Static Pressure						
						0.000	0.100	0.125	0.250	0.375	0.500	0.625
20	20XLP	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	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		
		1	0.88	1030	24	7112	6438	6284	5156	4139	2191	
	24XMP/ 24XMPH	1/4	1.02	1081	26	7464	6817	6669	5710	4704	3119	
			0.10	632	10.4	3157	2353	2043				
			0.16	739	13.9	3691	3025	2845	1557			
		1/3	0.24	846	17.6	4226	3645	3499	2448	1436		
			0.28	891	19.3	4451	3899	3762	2863	1791		
		1/2	0.33	936	21	4675	4150	4020	3261	2172		
			0.41	1005	23	5020	4529	4408	3760	2741	1881	
		3/4	0.50	1074	26	5365	4905	4791	4207	3342	2449	1691
			0.63	1155	29	5769	5341	5235	4702	4061	3121	2351
		1	0.77	1236	32	6174	5773	5674	5180	4640	3820	3040
			0.89	1300	35	6494	6112	6018	5549	5055	4414	3560
		1	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.

XLP / XMP - Belt Drive

Fan Size	Catalog Number	Mtr. HP	Max. BHP	RPM	FA Sones	CFM vs. Static Pressure						
						0.000	0.100	0.125	0.250	0.375	0.500	0.625
30	30XLP/ 30XLPH	1/4	0.17	388	7.0	5479	2699	1868				
			0.20	412	7.8	5818	3381	2351				
			0.23	435	8.5	6143	3885	3061				
		1/3	0.27	458	9.3	6468	4347	3716				
			0.31	481	10.2	6793	4787	4232				
		1/2	0.38	517	11.5	7301	5458	4956				
			0.49	552	13.0	7795	6095	5620	2707			
		3/4	0.59	594	14.9	8388	6835	6396	3607			
			0.73	635	16.7	8967	7532	7133	4935			
		1	0.87	668	18.2	9433	8077	7709	5722	3152		
			0.98	701	19.7	9900	8612	8271	6413	3806		
		1-1/2	1.26	753	22	10634	9438	9131	7427	5286	3224	
			1.48	805	25	11368	10249	9968	8400	6713	4306	
	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			
		1/2	0.38	629	12.1	6588	5529	5251	3095			
			0.50	672	13.5	7038	6049	5796	3787	2397		
		3/4	0.60	723	15.2	7572	6652	6422	4936	3173		
			0.77	774	17.1	8106	7246	7033	5823	3839	2731	
		1	0.87	814	18.6	8525	7706	7504	6411	4461	3378	
			0.97	853	20	8933	8151	7958	6947	5329	3900	
		1-1/2	1.23	917	22	9604	8874	8694	7778	6629	4768	3876
			1.44	980	25	10264	9580	9411	8564	7612	6033	4701
36	36XLP/ 36XLPH	1/3	0.26	350	7.6	8019	4495	3369				
			0.29	364	8.1	8339	5525	3911				
			0.33	378	8.6	8660	6044	4415				
		1/2	0.41	406	9.8	9301	6920	6137				
			0.49	434	11.1	9943	7764	7125				
		3/4	0.62	466	12.8	10676	8720	8100	3308			
			0.74	499	14.3	11432	9666	9095	4940			
		1	0.86	525	15.5	12028	10383	9865	5895			
			1.00	551	16.7	12623	11078	10613	6960			
		1-1/2	1.25	592	18.6	13563	12143	11744	9365	5135		
			1.51	633	21	14502	13182	12830	10670	6865		
		2	1.80	665	22	15235	13981	13656	11636	8051	4955	
			2.06	697	24	15968	14773	14468	12602	10303	6606	
	36XMP/ 36XMPH	1/3	0.16	350	7.0	6740	3362	2685				
			0.23	394	9.0	7588	5115	3842				
			0.31	439	11.3	8454	6287	5677				
		1/2	0.40	471	13.2	9071	7122	6519	3204			
			0.49	504	15.0	9706	7957	7373	4013			
		3/4	0.60	542	17.1	10438	8860	8359	4981			
			0.75	580	19.3	11170	9715	9297	6504	4005		
		1	0.87	610	21	11747	10372	9998	7716	4741		
			0.99	640	23	12325	11015	10675	8545	5474		
		1-1/2	1.25	688	26	13250	12030	11725	9782	6853	5080	
			1.54	735	30	14155	13010	12729	11008	9068	6220	4804
		2	1.77	773	33	14886	13795	13529	11986	10179	7225	5772
			2.02	810	36	15599	14554	14302	12903	11144	8597	6664

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 / XMP - Belt Drive

Fan Size	Catalog Number	Mtr. HP	Max. BHP	RPM	FA Sones	CFM vs. Static Pressure						
						0.000	0.100	0.125	0.250	0.375	0.500	0.625
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	0.40	303	12.9	11035	6076	4669				
			0.49	324	14.5	11799	7895	5859				
		3/4	0.61	348	15.7	12673	9072	7874				
			0.75	373	17.0	13584	10266	9374				
		1	0.88	393	18.1	14312	11281	10327				
			1.01	412	19.2	15004	12252	11227				
		1-1/2	1.25	442	21	16097	13674	12748	7432			
			1.53	473	23	17226	15023	14302	9142			
		2	1.78	497	26	18100	16020	15417	11543			
			2.05	521	29	18974	16999	16461	12937	7771		
		3	2.53	559	34	20358	18520	18049	14756	10035		
			3.10	598	40	21778	20055	19629	16639	13111	8580	
	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				
			0.50	383	14.9	12111	9421	8728				
		3/4	0.62	412	16.4	13028	10518	9906	5081			
			0.76	441	18.0	13945	11595	11020	6697			
		1	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		
		2	1.80	586	30	18530	16768	16323	14139	11021	7376	
			2.08	615	34	19448	17769	17346	15256	12796	8985	
		3	2.58	661	38	20902	19341	18949	16988	15016	11715	8574
			3.15	706	41	22325	20864	20498	18655	16859	14539	11087
48	48XLP/ 48XLPH	1/2	0.33	238	8.1	12395						
			0.41	256	9.4	13332	6499					
			0.50	274	11.0	14269	8018	5938				
		3/4	0.62	294	12.8	15311	10714	7904				
			0.76	315	14.7	16405	12781	9884				
		1	0.88	331	15.8	17238	13877	12321				
			1.02	347	16.9	18071	14896	13901				
		1-1/2	1.27	373	18.7	19425	16483	15705				
			1.55	399	20	20779	18028	17337	9774			
		2	1.79	419	22	21821	19200	18547	11439			
			2.08	440	24	22914	20418	19796	13358			
		3	2.41	462	25	24060	21682	21089	16455			
			2.77	484	27	25206	22936	22369	19101	11528		
		3	3.14	505	29	26299	24124	23580	20705	13346		
	48XMP/ 48XMPH	1/2	.24	250	8.6	11156	4351					
			.36	284	11.2	12673	7535	5332				
			.50	318	14.0	14190	10274	8466				
		3/4	.62	342	15.7	15261	11943	10457				
			.76	366	17.3	16332	13405	12245				
		1	.88	384	18.5	17135	14413	13460				
			1.01	403	19.9	17983	15424	14623	7678			
		1-1/2	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		
		3	2.39	535	32	23873	21951	21486	18505	13250		
			2.74	560	34	24988	23146	22703	20092	15463	9835	
		3	3.12	586	38	26148	24382	23959	21613	17611	12391	

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 / XMP - Belt Drive

Fan Size	Catalog Number	Mtr. HP	Max. BHP	RPM	FA Sones	CFM vs. 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.

Description - Fan shall be a low profile, 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 204-96, Balance Quality and Vibration Levels for Fans.

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

Bearings - Bearings shall be 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.

LXUL/LXUM Dimension Data

Size	A Dia.	B	C	D Max.	E	T Sq.	Steel Gauge			Roof Opening Square	Approx. Ship Wt. Lbs.
							Base	Housing	Baffle		
20	24-1/4	24-1/8	22-1/8	21	2	32	14	14	18	27-1/2	250
24	31-1/4	28	26	21	3	36	14	14	18	31-1/2	290
30	37-1/4	34	32	21	3	42	14	14	18	37-1/2	370
36	43-1/4	38	36	21	3	48	14	14	18	43-1/2	440
42	49-1/4	45	43	21	3	54	14	14	18	49-1/2	540
48	55-1/4	50	48	24	3	60	14	14	18	55-1/2	655
54	61-1/4	46	44	28	3	66	14	14	16	61-1/2	710
60	67-1/4	51	49	28	3	72	14	14	16	67-1/2	790

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

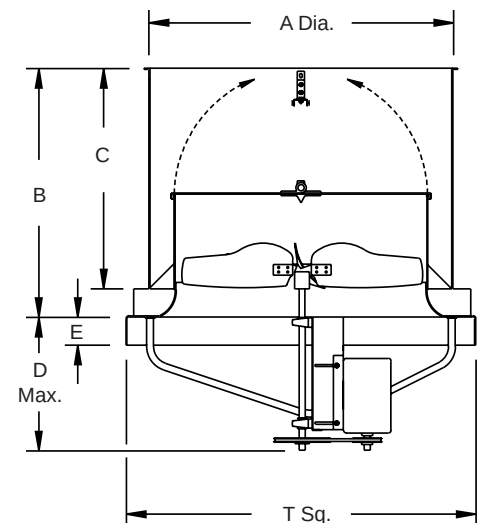
Upblast Roof Fan Low Silhouette X-STREAM Propeller Belt Drive



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.



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	
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								
		0.37	996	5345	15.8	4418	4113	3838	3706	3567								
		0.46	1068	5731	17.4	4738	4451	4189	4067	3943	3663							
		0.51	1102	5914	18.1	4888	4611	4354	4235	4115	3857							
		0.57	1144	6139	19.2	5075	4807	4557	4440	4326	4087	3781						
		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					
		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									
	0.33	1133	6080	17.3	4153	3984	3800	3694	3577	3341								
	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						
	0.51	1301	6982	22	4769	4622	4469	4387	4299	4098	3889	3706	3419					
	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

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									
		3/4	0.50	320	3560	11.1	13560	11924									
			0.57	336	3738	12.3	14238	12684									
		1	0.66	352	3916	13.5	14916	13436	11822								
			0.76	369	4105	14.8	15636	14227	12724	11820							
		1-1/2	0.85	382	4250	15.8	16187	14827	13394	12579							
			0.94	395	4394	16.8	16738	15424	14051	13296							
		2	1.03	407	4528	17.8	17246	15972	14650	13936	13114						
			1.18	427	4751	19.3	18094	16880	15631	14971	14256						
		3	1.36	447	4973	21	18941	17783	16597	15979	15326						
			1.55	467	5196	22	19789	18680	17551	16968	16361	14966					
		4	1.67	479	5329	23	20297	19217	18118	17554	16970	15674					
			1.80	491	5463	24	20806	19752	18682	18135	17571	16349					
		5	1.93	503	5596	24	21314	20286	19244	18712	18166	17000					
			2.08	515	5730	25	21823	20819	19802	19284	18756	17637	16285				
	42 LXUM	1/2	0.30	324	3604	11.3	11095										
			0.50	385	4283	16.5	13184	11928									
		3/4	0.62	414	4606	19.4	14177	13009	11833	11231							
			0.77	443	4929	22	15170	14079	12983	12428	11859						
		1	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			
		2	1.56	561	6241	29	19211	18350	17487	17055	16622	15746	14846	13889			
			1.72	580	6453	30	19862	19029	18195	17777	17359	16515	15653	14751			
		3	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		
		4	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	
		5	3.14	709	7888	44	24279	23598	22916	22575	22233	21550	20864	20172	19114	17217	
			3.18	712	7922	45	24382	23703	23024	22685	22345	21664	20981	20293	19240	17360	
		6	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							
		1	0.89	328	4164	12.9	20476	18616	16666	15052	13637						
			1.02	344	4367	14.0	21474	19697	17918	16611	15090						
		1-1/2	1.18	361	4583	15.2	22536	20839	19178	18151	16650						
			1.35	378	4799	16.5	23597	21974	20400	19529	18308	15674					
		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					
		3	1.90	423	5370	19.9	26406	24951	23539	22835	22072	19827	17563				
			2.07	436	5536	21	27217	25805	24430	23754	23041	21094	18763				
		4	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			
		5	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			
		6	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									
	3/4	0.62		346	4393	12.8	17888	15983	13792								
		0.76		371	4710	14.5	19180	17408	15486	14267	12825						
	1	0.85		384	4875	15.4	19852	18142	16322	15216	13907						
		0.94		397	5040	16.4	20524	18871	17137	16127	14918						
	1-1/2	1.02		409	5193	17.3	21145	19541	17873	16936	15821						
		1.18		429	5447	18.7	22179	20651	19079	18228	17258	14863					
	2	1.35		449	5701	20	23213	21754	20264	19476	18615	16498					
		1.55		470	5967	22	24298	22905	21489	20754	19971	18100	15664				
	3	1.72		486	6170	23	25125	23779	22413	21710	20975	19267	17164				
		1.89		502	6374	24	25953	24649	23330	22656	21955	20388	18445				
	4	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			
	5	2.74		568	7212	29	29365	28214	27054	26468	25875	24639	23252	21595			
		3.13		594	7542	31	30709	29608	28501	27943	27380	26222	24966	23509	20917		

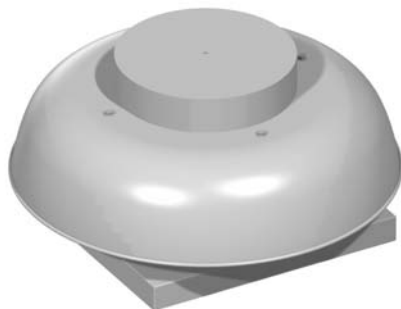
Performance shown is for Installation Type A: free inlet, free outlet. Power rating (BHP) does not include drive losses. Performance ratings do not include the effects of appurtenances in the airstream. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free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

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										
			0.75	251	3548	9.5	22615	19442										
			1	0.84	260	3675	10.3	23426	20354	16891								
		0.94		269	3802	11.1	24237	21257	17971									
			1.02	277	3916	11.8	24958	22055	18938	17271								
			1-1/2	1.19	291	4113	13.1	26219	23439	20607	18921	17413						
		1.36		305	4311	14.4	27481	24814	22210	20605	19104							
			2	1.52	318	4495	15.6	28652	26081	23636	22170	20636						
				1.71	329	4651	16.6	29643	27149	24807	23465	21954	19192					
				1.89	340	4806	17.6	30634	28214	25958	24719	23284	20597					
				2.05	350	4948	18.3	31535	29178	26986	25825	24482	21801					
			3	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				
				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							
			1.55	350	4948	18.1	28695	26191	24407	23526	22429	19711						
			2	1.71	362	5117	18.9	29679	27225	25471	24639	23688	21061					
		1.89		374	5287	19.6	30662	28266	26528	25734	24870	22437						
				2.07	386	5456	20	31646	29305	27580	26813	26013	23846	21424				
				2.40	405	5725	22	33204	30941	29237	28502	27766	25992	23578				
			3	2.75	424	5994	23	34762	32577	30889	30173	29476	27955	25773	23604			
				3.13	443	6262	24	36319	34213	32538	31835	31164	29785	27978	25754			
			5	3.73	469	6630	26	38451	36439	34789	34096	33450	32183	30751	28765	25799		
				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							
			1.54	256	4021	16.0	33882	30034	26842	25224	23014							
			2	1.71	265	4162	16.8	35073	31329	28214	26691	24916	19905					
		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					
			2.39	296	4649	19.7	39176	35769	32844	31502	30145	26676	22213	20044				
			3	2.74	310	4869	21	41029	37758	34905	33610	32330	29513	24520	22219			
				3.06	323	5073	22	42750	39599	36805	35547	34318	31768	27622	24145			
			5	3.75	344	5403	25	45529	42554	39857	38645	37477	35157	32530	27742	24457		
				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	
				5.78	399	6267	33	52808	50223	47787	46653	45575	43541	41551	39473	34831	28506	
			7-1/2	6.50	413	6487	35	54661	52160	49787	48673	47611	45621	43698	41742	38231	30570	
				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						
			1.54	311	4885	17.5	31730	29609	27528	26456	25239	22320						
			1.71	322	5057	18.4	32852	30803	28790	27774	26668	23928						
		2	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					
			3	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			
				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		
			5	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	
				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.**

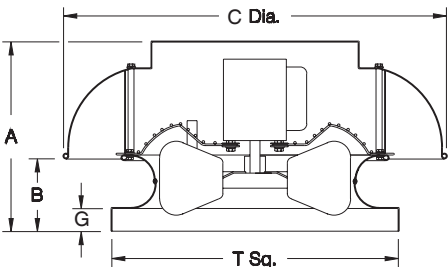
Propeller Exhaust/
Supply/Reversible



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).



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 204-96, 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.

REBEL Dimension Data

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

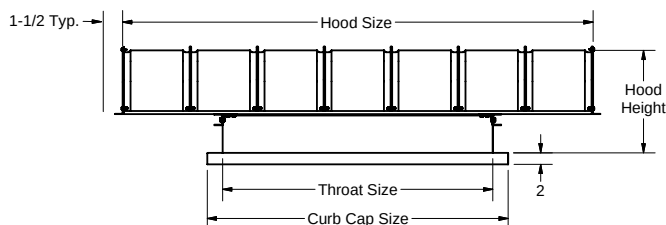
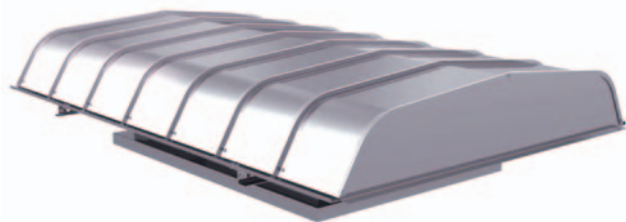
Performance shown is for Installation Type A: Free inlet, Free outlet. Speed (RPM) shown is nominal. Performance is based on actual speed of test. Performance ratings do not include the effects of appurtenances in the airstream.

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



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

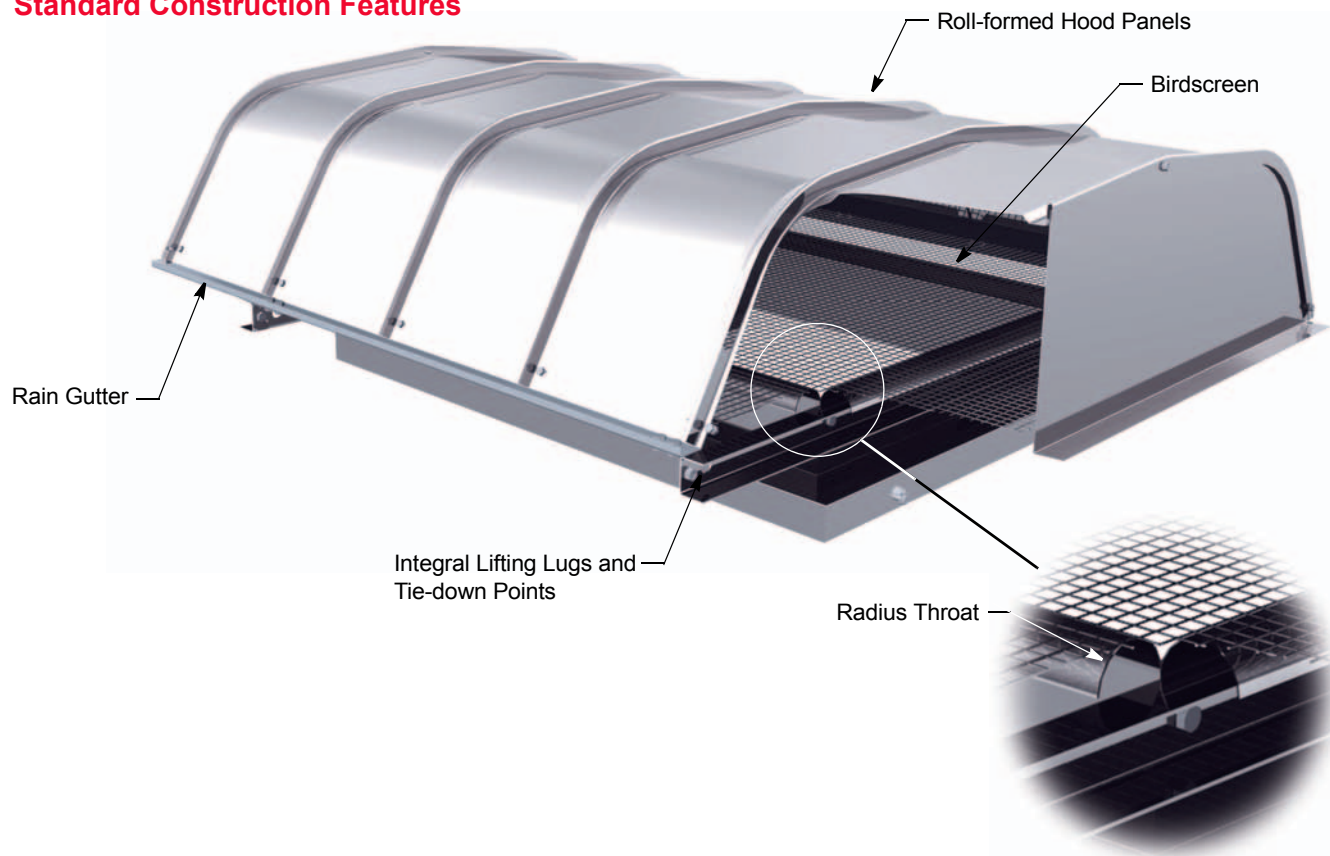
Velocity to 500 FPM - Velocity below 500 FPM provides for a level of protection against the influx of airborne mist or debris.

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

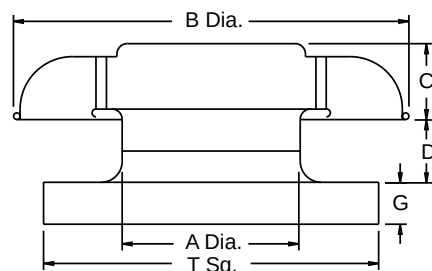
Throat Size (In.)	Hood Size (In.)	Curb Cap Size (In.)	Hood Height (In.)					Static Pressure Drop									
				Ducted				0.017	0.028	0.040	0.056	0.073	0.093	0.115	0.140	0.167	0.196
				Non-Ducted				0.044	0.063	0.085	0.110	0.139	0.170	0.205	0.243	0.284	0.328
				Throat Area	Hood Area	Ship- ping Wt. Galv. (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	118	92	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	149	114	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	160	121	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	213	153	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	294	208	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	366	252	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	458	305	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	118	92	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	147	112	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	152	115	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	174	128	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	248	177	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	230	164	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	288	204	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	339	235	3650	4867	6083	7300	8517	9733	10950	12167	13383	14600	

PR Specifications, Dimension & Performance Data

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.

PR Dimension Data

Size	A Dia.	B Dia.	C	D	G	T Sq.	Roof Opening	Approx. Ship Wt.-Lbs.
8	8-1/2	18-1/4	4-5/8	3-1/2	2	18	13-1/2	20
12	12-1/2	28-1/4	4-13/16	3-1/2	2	20	15-1/2	30
16	16-1/2	28-1/4	5-1/8	5-1/2	2	28	23-1/2	35
20	20-1/2	36-1/2	6-3/4	4-7/8	2	32	27-1/2	80
24	24-3/4	42-1/4	7-3/4	6-1/4	3	36	31-1/2	105
30	30-3/4	52-1/2	17	6-1/4	3	42	37-1/2	140
36	36-3/4	62-1/2	17-1/2	7-1/2	3	48	43-1/2	170
42	42-3/4	73	14	8	3	54	50-1/2	205
48	48-3/4	73	14	8	3	60	56-1/2	260

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	0.394	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 of the Gravity Ventilation Catalog for calculation of performance. ***See gravity ventilation application section of the Gravity Ventilation Catalog for explanation of height.

PR - Intake Performance Data

Size	Throat Area (Sq. Ft.)	Face Area (Sq. Ft.)	CFM at 500 FPM Face Velocity	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	690	252	356	398	436	503	543	617	689
12	.852	2.04	1020	529	749	837	917	1059	1142	1297	1450
16	1.485	3.08	1540	936	1324	1480	1621	1872	2019	2293	2563
20	2.292	5.31	2655	1452	2054	2296	2516	2905	3132	3558	3977
24	3.341	7.92	3960	2091	2958	3307	3622	4183	4510	5123	5728
30	5.157	10.77	5385	3247	4592	5134	5624	6494	7002	7953	8892
36	7.366	14.87	7435	4706	6655	7440	8150	9411	10149	11527	12887
42	9.968	19.67	9835	6307	8919	9971	10923	12613	13601	15448	17271
48	12.962	20.53	10,265	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.

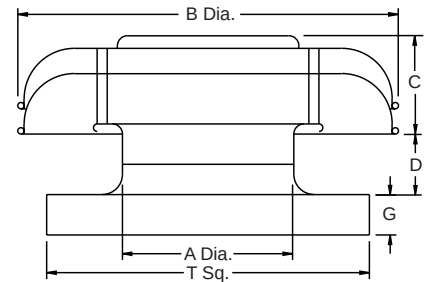
Spun Aluminum Tiered Gravity Ventilator



TR Dimension Data

Size	A Dia.	B Dia.	C	D	G	T Sq.	Roof Opening	Approx. Ship Wt.-Lbs.
8	8-1/2	18-1/4	7-1/4	3-1/2	2	18	13-1/2	20
12	12-1/2	28-1/4	9	3-1/2	2	20	15-1/2	30
16	16-1/2	28-1/4	9	5-1/2	2	28	23-1/2	40
20	20-1/2	36-1/2	12	4-7/8	2	32	27-1/2	90
24	24-3/4	42-1/4	14	6-1/4	3	36	31-1/2	120
30	30-3/4	52-1/2	31	6-1/4	3	42	37-1/2	160
36	36-3/4	62-1/2	33	7-1/2	3	48	43-1/2	205
42	42-3/4	73	25	8	3	54	50-1/2	240
48	48-3/4	73	25	8	3	60	56-1/2	295

All dimensions in inches.



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	0.394	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.

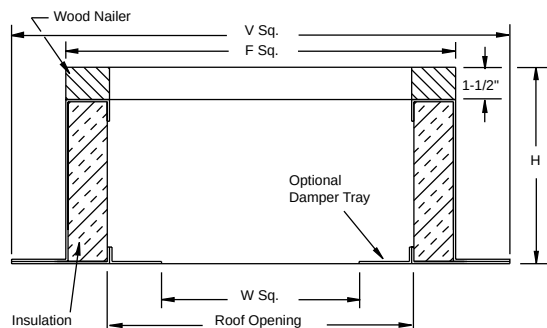
**Consult local weather station for average wind speed. Use 1/2 average wind speed. If average is over 20 MPH, consult gravity ventilation application section of the Gravity Ventilation Catalog for calculation of performance.

***See gravity ventilation application section of the Gravity Ventilation Catalog for explanation of height.

TR - Intake Performance Data

Size	Throat Area (Sq. Ft.)	Face Area (Sq. Ft.)	CFM at 500 FPM Face Velocity	Pressure Drop (in WG)							
				0.05	0.1	0.125	0.15	0.2	0.25	0.3	0.375
				CFM							
8	.394	2.07	1035	302	463	517	567	655	706	802	896
12	.852	3.11	1555	688	973	1088	1192	1376	1484	1685	1884
16	1.485	4.62	2310	1217	1721	1924	2107	2434	2624	2980	3332
20	2.292	7.97	3985	1888	2670	2985	3270	3776	4072	4625	5171
24	3.341	11.88	5940	2719	3845	4299	4709	5438	5864	6660	7446
30	5.157	16.15	8075	4221	5969	6674	7311	8442	9103	10339	11559
36	7.366	22.31	11,155	6117	8651	9672	10596	12235	13193	14984	16753
42	9.968	29.5	14,750	8198	11594	12963	14200	16397	17681	20082	22452
48	12.962	30.8	15,400	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 Dimension Data

AC Unit	Catalog Number (Galvanized)	F Sq.	H	V Sq.	W 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.

Fan Speed Control

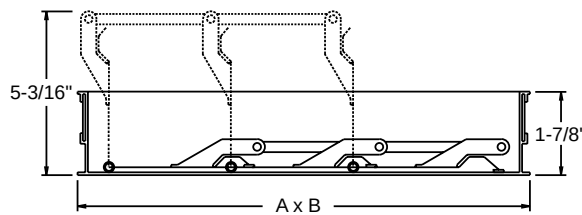


5 AMP FSC

10 AMP FSC

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.

Gravity Backdraft Damper - ACE / ACRU

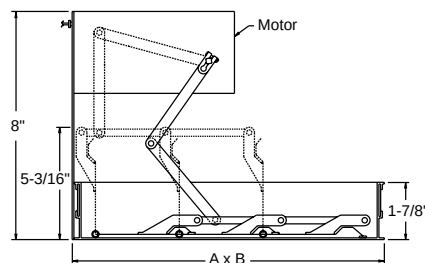


Gravity dampers feature an extruded aluminum frame, aluminum blades and aluminum hinge pins with nylon bushings. Not available with the ACSC.

Unit Size	Catalog Number	E Sq.
60, 70, 80, 90, 100	BD-12	11-3/4
120, 135	BD-14	13-3/4
150, 165	BD-18	17-3/4
180, 195, 210, 225, 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

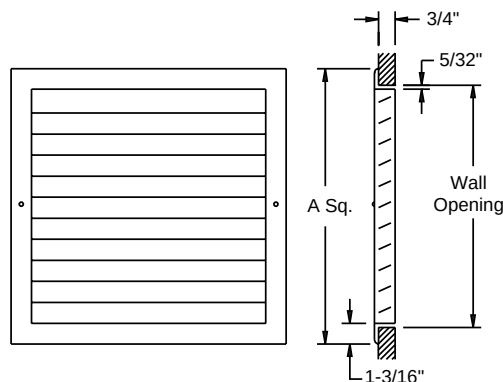


Motorized dampers feature an extruded aluminum frame, aluminum blades and aluminum hinge pins with nylon bushings. Motors are shipped loose for field installation. Available voltages include 110V, 220V, and 440V. Not available with the ACSC.

Unit Size	Catalog Number	E Sq.
60, 70, 80, 90, 100	BDM-12	11-3/4
120, 135	BDM-14	13-3/4
150, 165	BDM-18	17-3/4
180, 195, 210, 225, 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.

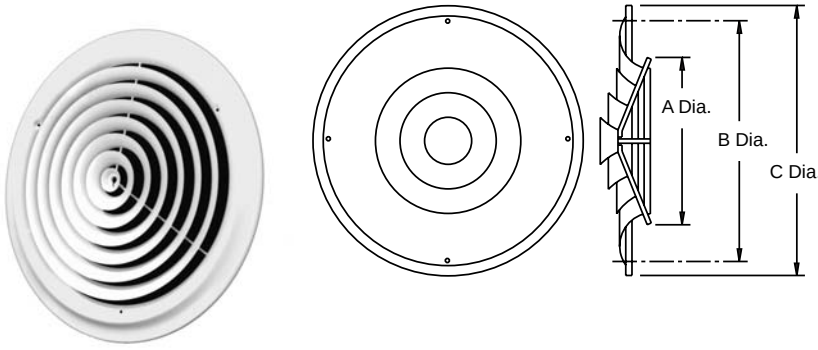
Square Inlet Grille - ACW



Unit Size	Catalog Number	A Sq.	Wall Opening	Damper	
				Model	Size
70	SG-8	10	8	BD-8	7-3/4
90, 100	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, 225, 245	SG-24	26	24	BD-24	23-3/4

All dimensions in inches.

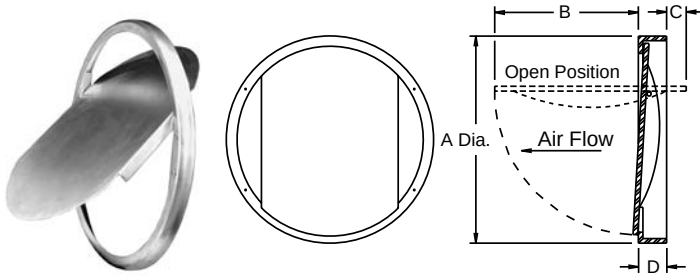
Round Inlet Grille - ACW



Unit Size	Catalog Number	A Dia.	B Dia. Mtg. Hole	C Dia.
70	G-8	7-3/4	8-1/2	12
90, 100	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.

Damper - ACW

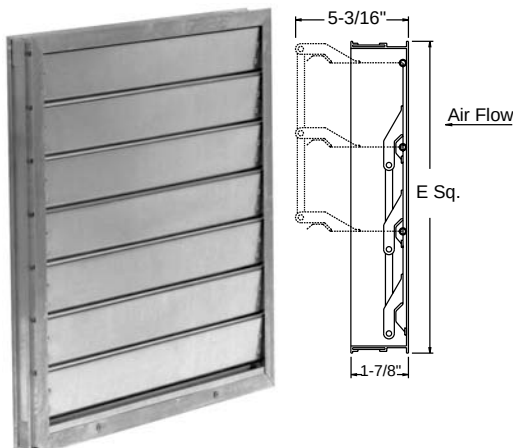


Gravity dampers feature an aluminum frame, aluminum blades and aluminum hinge pins with nylon bushings.

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, 100	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, 210, 225, 245	D-22	21-15/16	5-1/2	2-1/2	1	3

All dimensions in inches.

Gravity Backdraft Damper - ACW



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

Unit Size	Catalog Number	E Sq.
70	BD-8	7-3/4
90, 100	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, 225, 245	BD-24	23-3/4

All dimensions in inches.

Typical Disconnect Switches



NEMA 1



**NEMA 1
(Lockable)**



NEMA 3R



NEMA 4

NEMA 1 - Indoor general purpose.

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

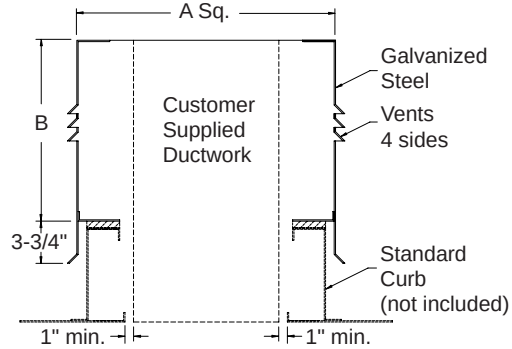
NEMA 3R - Exterior mount, rain-tight.

NEMA 4 - Water-tight and dust-tight.

Vented Extension



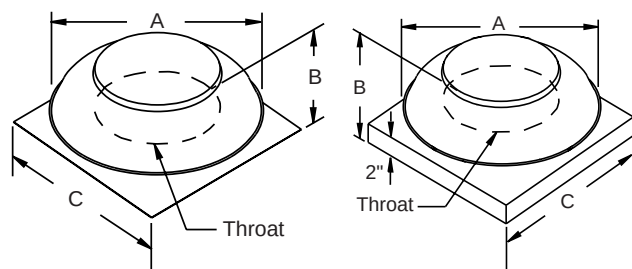
The vented extension, constructed of galvanized steel, is used to increase the discharge height of the fan. Vents in the extension allow the interior ductwork to dissipate heat.



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.

Roof Cap



Roof Cap - Flat Base

Roof Cap - Curb Mount

Roof Cap Dimension Data

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.

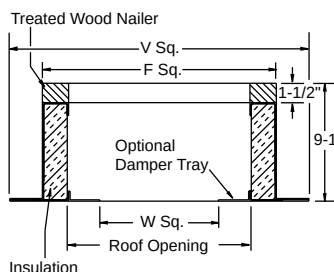
Roof Curb



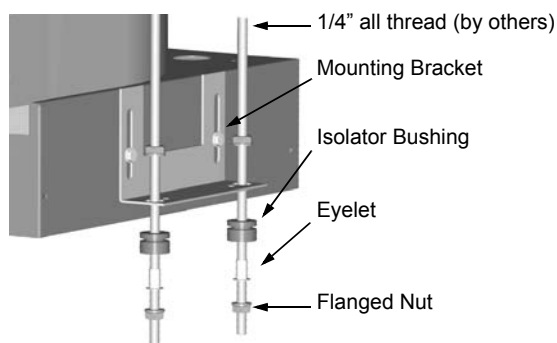
Roof Curb Dimension Data

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					
PR12F	RCG-18	18-1/2	22-1/2	11-3/4	15-1/2
PR16					
PR16F					
PR20	RCG-26	26-1/2	30-1/2	19-3/4	23-1/2
PR20F					
PR20F	RCG-30	30-1/2	34-1/2	23-3/4	27-1/2

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



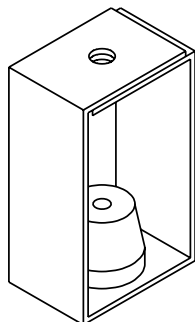
GIK before assembly

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.

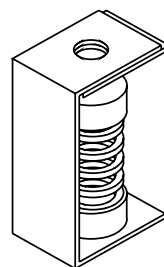
Rubber In Shear Isolator



RIS Data

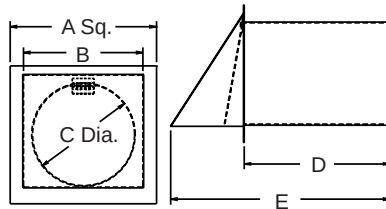
Unit	Rated Load
RC 75	75 lbs.

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

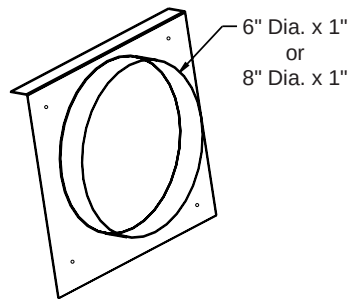


Round Duct Wall Cap w/ Damper Dimension Data

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



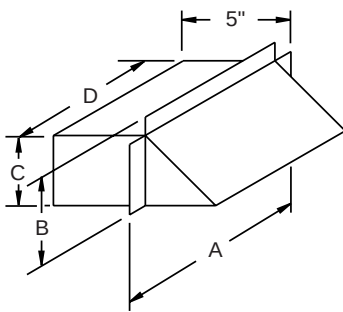
The Gemini 200-500 can be field converted from a rectangular outlet to a round outlet by removing the rectangular damper frame and replacing it with the round duct adaptor.

Round Duct Adapter Dimension Data

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

All dimensions in inches.

Wall Cap

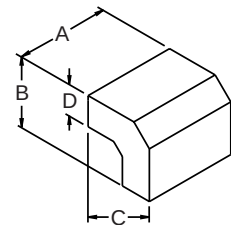


Wall Cap Dimension Data

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

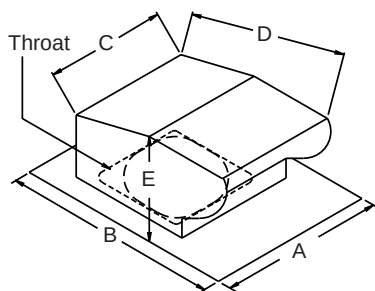


Eave Elbow Dimension Data

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



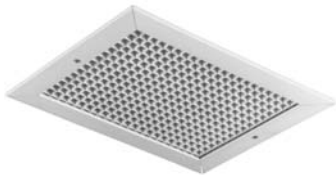
Roof Jack Dimension Data

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.

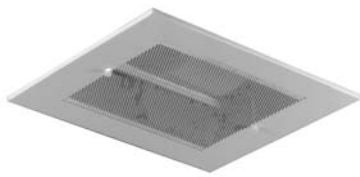
Standard Construction Features - Corrosion resistant galvanized steel with black baked enamel finish, 1/2" birdscreen. Optional Roof Jack Adapter is available for the RJ200. The Roof Jack Adapter is a transition from the Gemini Fan to the Roof Jack. The RJR100 has an integral 6 inch round adapter for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

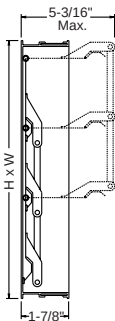


Models
122 - 862

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

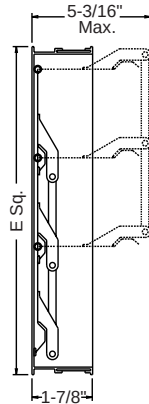


Automatic Backdraft Dampers feature an extruded aluminum frame, aluminum blades and aluminum hinge pins with nylon bushings. These dampers are shipped loose for field installation.

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.

Automatic Backdraft Damper

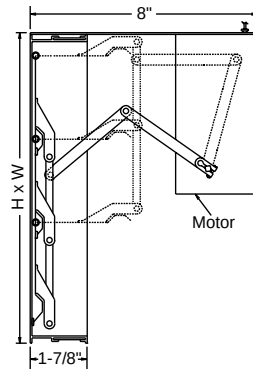


Automatic Backdraft Dampers feature an extruded aluminum frame, aluminum blades and aluminum hinge pins with nylon bushings. These dampers are shipped loose for field installation.

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

All dimensions in inches.

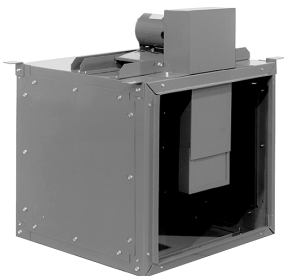
Motorized Backdraft Damper



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.

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

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.

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.



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.



SQN Side Discharge Correction Factors

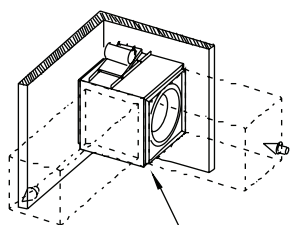
Size	SQN-B				SQN-HP			
	Single		Dual		Single		Dual	
	CFM	HP	CFM	HP	CFM	HP	CFM	HP
60	+3%	+3%	+3%	-3%	-3%	+5%	0%	-2%
70	+2%	+2%	+3%	-3%	-3%	+5%	0%	-2%
80	+2%	+2%	+3%	-4%	-3%	+5%	0%	-3%
100	+1%	+2%	+3%	-5%	-3%	+5%	0%	-3%
120	+1%	+1%	+4%	-6%	-2%	+4%	+1%	-4%
135	+1%	+1%	+4%	-7%	-2%	+4%	+1%	-4%
150	+1%	+1%	+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	SQN-B				SQN-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	SQN-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%

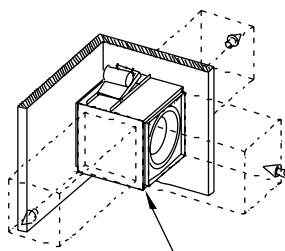
The factors indicate the percent change in performance that will occur when using these side discharge options. AMCA certified ratings seal does not apply when these factors are used.

Typical Side Discharge Applications



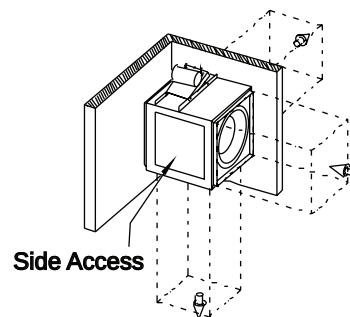
Bottom Access

Example 1



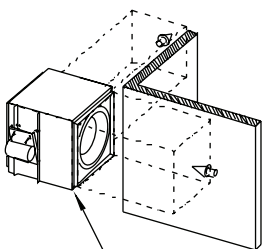
Bottom Access

Example 2



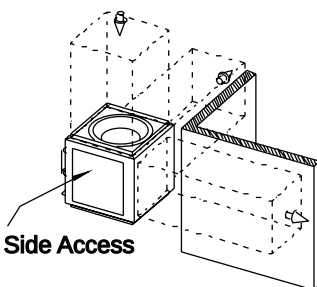
Side Access

Example 3



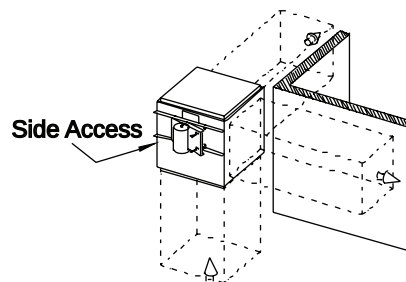
Bottom Access

Example 4



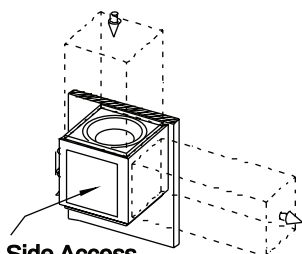
Side Access

Example 5



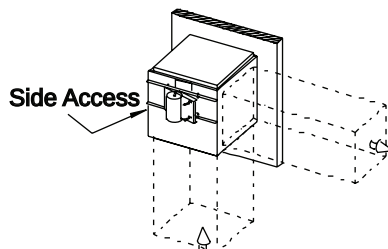
Side Access

Example 6



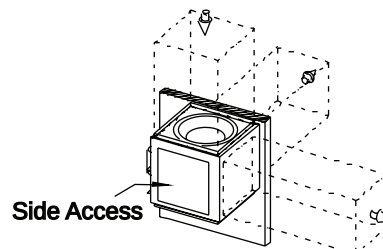
Side Access

Example 7



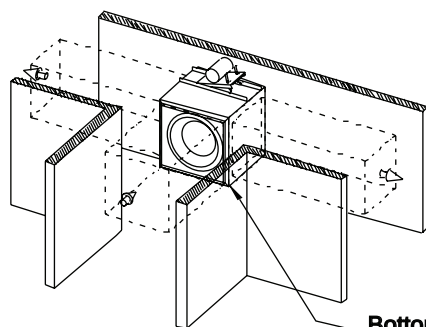
Side Access

Example 8



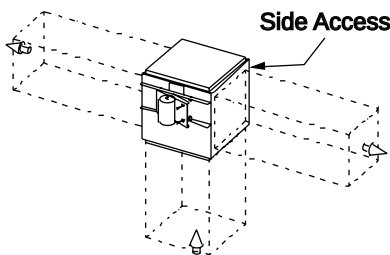
Side Access

Example 9



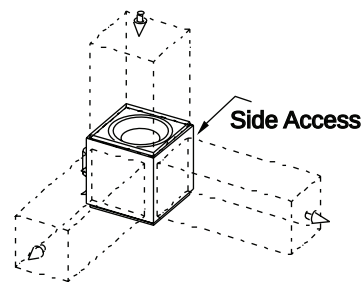
Bottom Access

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)**

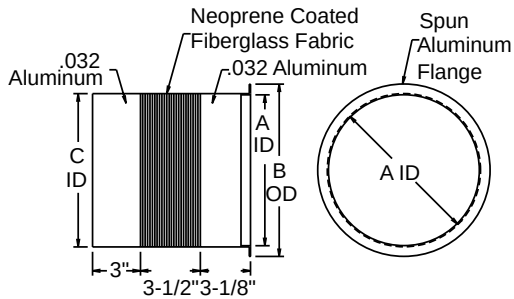


NEMA 3R



NEMA 4

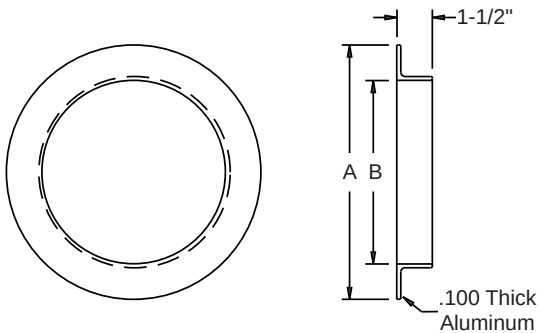
Flexible Duct Connector



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
24	24-3/16	27-3/16	24-1/2
28	28-3/16	31-3/16	28-1/2
32	32-3/16	35-3/16	32-1/2
36	36-3/16	39-3/16	36-1/2

All dimensions in inches.

Companion Flange



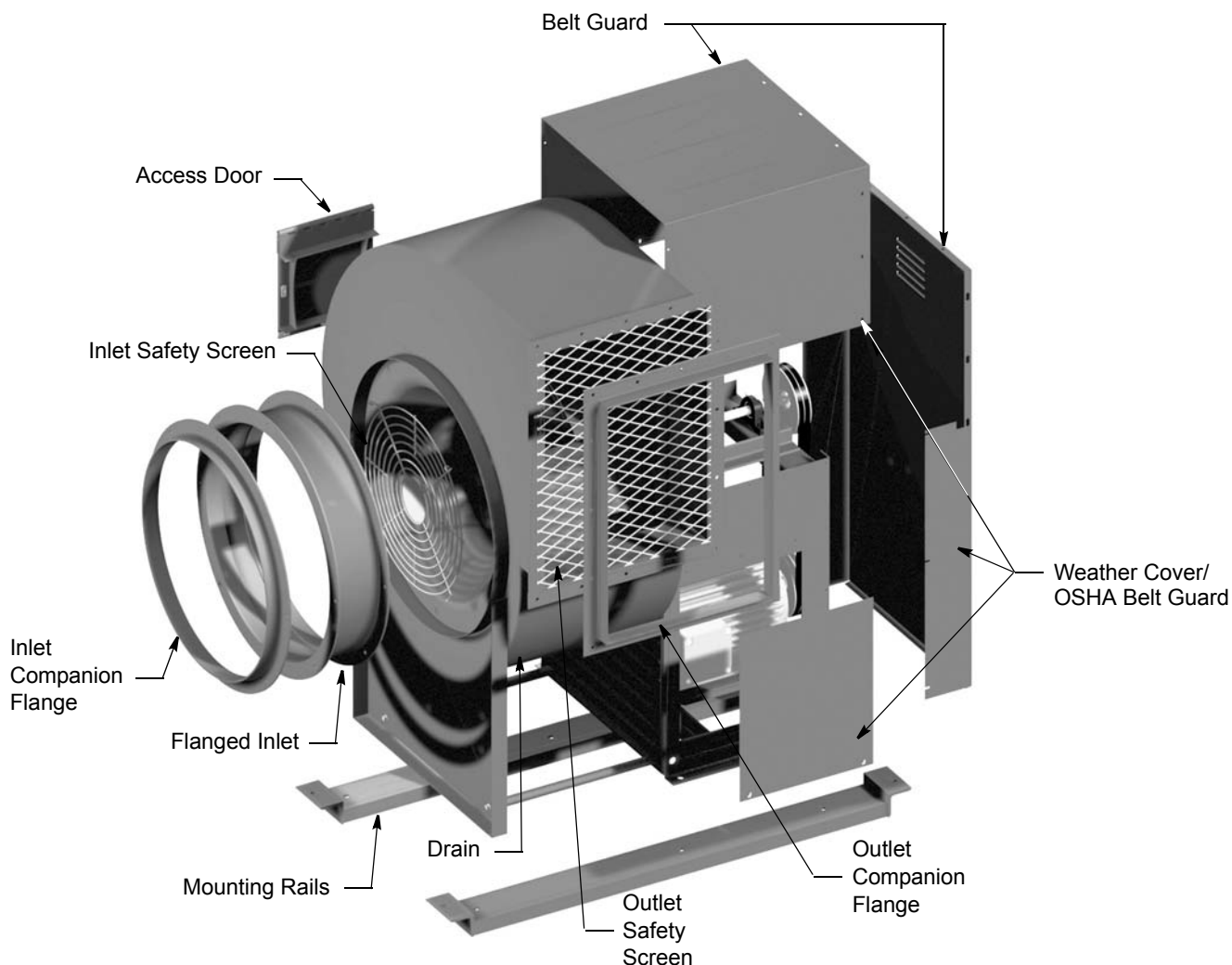
Size	A	B
8	10-11/16	8-3/16
10	12-11/16	10-3/16
12	14-11/16	12-3/16
14	16-11/16	14-3/16
16	8-11/16	16-3/16
18	20-11/16	18-3/16
20	22-11/16	20-3/16

All dimensions in inches.

Size	A	B
24	26-11/16	24-3/16
28	30-11/16	28-3/16
32	34-11/16	32-3/16
36	38-11/16	36-3/16

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.

Drain

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

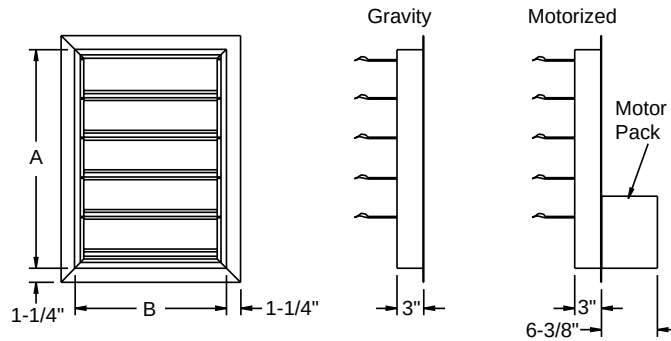
Additional Accessories

- Lube Lines
- 304 Stainless Steel (CPS/CPS-A)
- UL 762

Shutters*

Galvanized

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



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

CP Galvanized Shutter Dimension Data

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

All dimensions in inches.

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

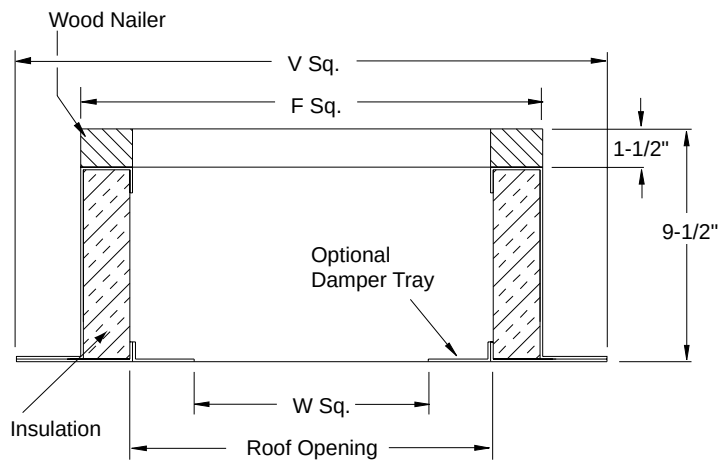


The KSP Intake Extension is available for all sizes. Constructed of heavy gauge galvanized steel, the extension must be supported at the intake end by an equipment support. Filters are installed at the intake end as in the standard unit. An optional backdraft damper can be installed in the intake extension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

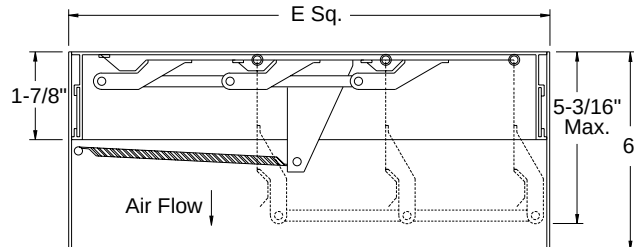
Dampers

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).

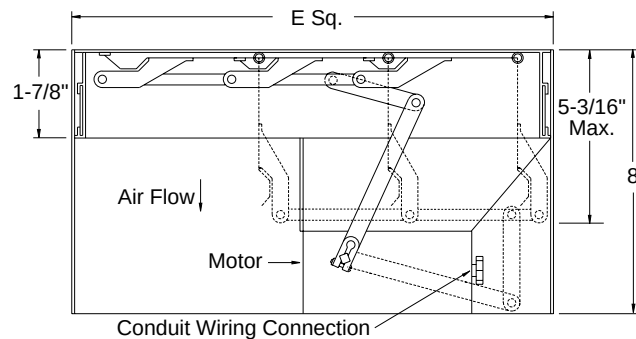
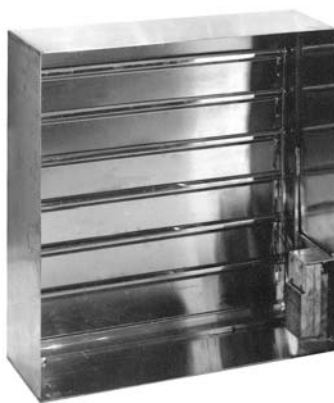
Intake Backdraft Damper (Curb Mounted)



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

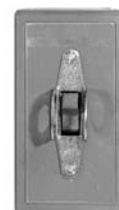
NEMA 1 (Lockable) - Indoor, general purpose with lockable switch

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

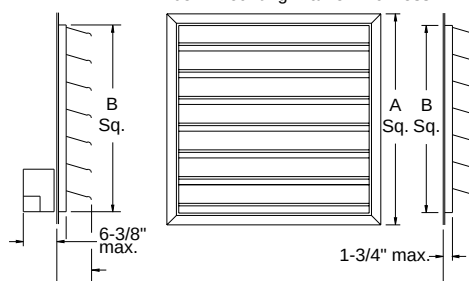
Standard and Heavy Duty Aluminum Shutter



Motorized

Gravity

.051" Mounting Frame Thickness



Blade Thickness .020" standard, .050" heavy duty

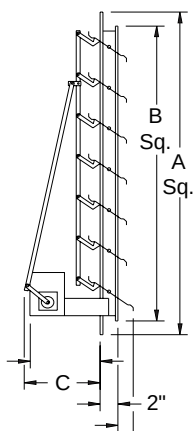
Heavy Duty

Standard Duty

Size				Model Number		Max. CFM for Std. Duty	A	B	No. of Panels	No. of Motor Packs
S-Series	X-Stream Series	A-Series	E-Series	Std. Duty	Hvy. Duty					
8	-	-	-	GSS-10	-	-	13	10	1	1
10-12	-	12	-	GSS-14	-	-	17	14	1	1
14-16	-	16	-	GSS-18	-	-	21	18	1	1
18-20	-	20	-	GSS-22	-	-	25	22	1	1
24	-	-	-	GSS-27	GSH-27	10125	30	27	1	1
-	20	-	-	GSS-22	-	-	25	22	1	1
-	24	24	-	GSS-27	GSH-27	10125	30	27	1	1
-	30	30	24	GSS-33	GSH-33	15125	36	33	2	1
-	36	36	30	GSS-39	GSH-39	21125	42	39	2	1
-	42	42	36	GSS-45	GSH-45	28125	48	45	2	2
-	48	48	42	-	GSH-51	-	54	51	2	2
-	54	-	48	-	GSH-57	-	60	57	3	3
-	60	-	54	-	GSH-63	-	66	63	3	3
-	-	-	60	-	GSH-69	-	72	69	3	3
-	-	-	72	-	GSH-81	-	84	81	4	4

All dimensions in inches.

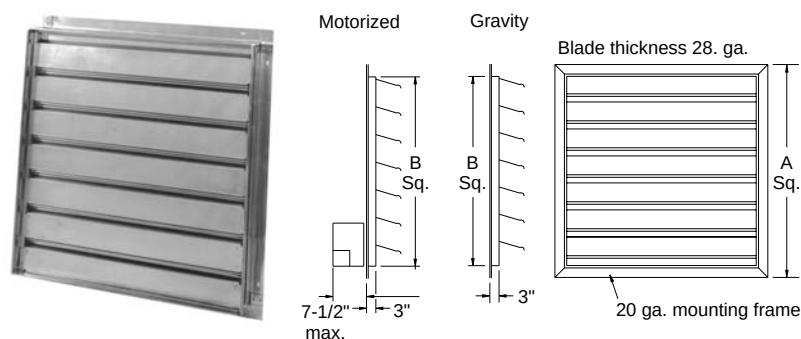
Motorized Intake Shutter



Size				Model Number	A	B	C	No. of Pan- els	No. of Motor Packs
S-Series	X-Stream Series	A-Series	E-Series						
8	-	-	-	MIC-10	12-3/8	9-3/8	7-7/8	1	1
10-12	-	12	-	MIC-14	16-3/8	13-3/8	7-7/8	1	1
14-16	-	16	-	MIC-18	20-3/8	17-3/8	7-7/8	1	1
18-20	-	20	-	MIC-22	24-3/8	21-3/8	7-7/8	1	1
24	-	-	-	MIC-27	29-3/8	26-3/8	7-7/8	1	1
-	20	-	-	MIC-22	24-3/8	21-3/8	7-7/8	1	1
-	24	24	-	MIC-27	29-3/8	26-3/8	7-7/8	1	1
-	30	30	24	MIC-33	35-3/8	32-3/8	7-7/8	1	1
-	36	36	30	MIC-39	41-3/8	38-3/8	7-7/8	2	1
-	42	42	36	MIC-45	47-3/8	44-3/8	9-1/4	2	1
-	48	48	42	MIC-51	53-3/8	50-3/8	9-1/4	2	1
-	54	-	48	MIC-57	59-3/8	56-3/8	9-1/4	2	1
-	60	-	54	MIC-63	65-3/8	62-3/8	7-7/8	3	3
-	-	-	60	MIC-69	71-3/8	68-3/8	9-1/4	3	3
-	-	-	72	MIC-81	83-3/8	80-3/8	9-1/4	3	3

All dimensions in inches.

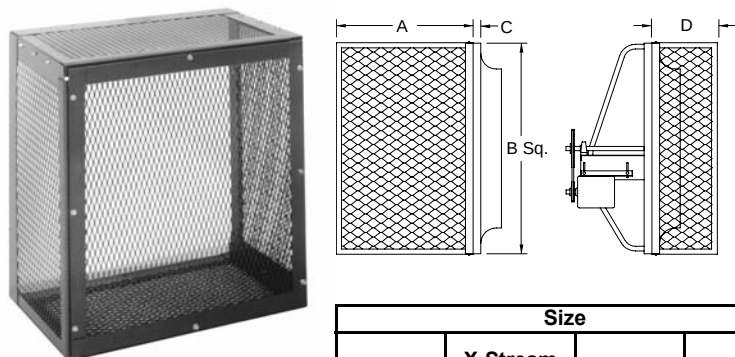
Heavy Duty Galvanized Shutter



Size				Model Number	A	B	No. of Panels	No. of Motor Packs
S-Series	X-Stream Series	A-Series	E-Series					
8	-	-	-	GSG-10	12-1/2	10	1	1
10-12	-	12	-	GSG-14	16-1/2	14	1	1
14-16	-	16	-	GSG-18	20-1/2	18	1	1
18-20	-	20	-	GSG-22	24-1/2	22	1	1
24	-	-	-	GSG-27	30	27-1/2	1	1
-	20	-	-	GSG-22	24-1/2	22	1	1
-	24	24	-	GSG-27	30	27-1/2	1	1
-	30	30	24	GSG-33	36	33-1/2	1	1
-	36	36	30	GSG-39	42	39-1/2	1	1
-	42	42	36	GSG-45	48	45-1/2	2	1
-	48	48	42	GSG-51	54	51-1/2	2	1
-	54	-	48	GSG-57	60	57-1/2	2	1
-	60	-	54	GSG-63	66	63-1/2	2	1
-	-	-	60	GSG-69	72	69-1/2	4	2
-	-	-	72	GSG-81	84	81-1/2	8	4

All dimensions in inches.

Wire Guard



Size				A	B	C	D	Wall Opening
S-Series	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.

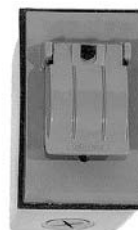
NEMA 4 - Water-tight and dust-tight.



NEMA 1



**NEMA 1
(Lockable)**



NEMA 3R



NEMA 4

Fan Speed Control



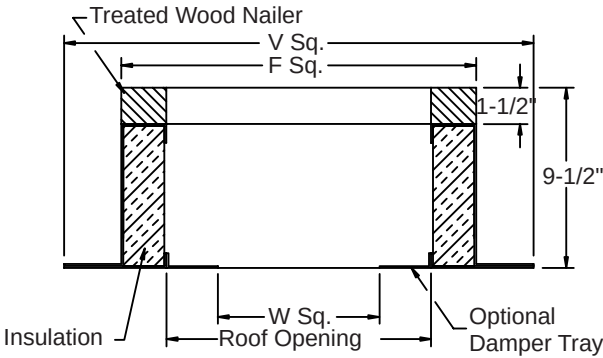
5 AMP FSC



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.

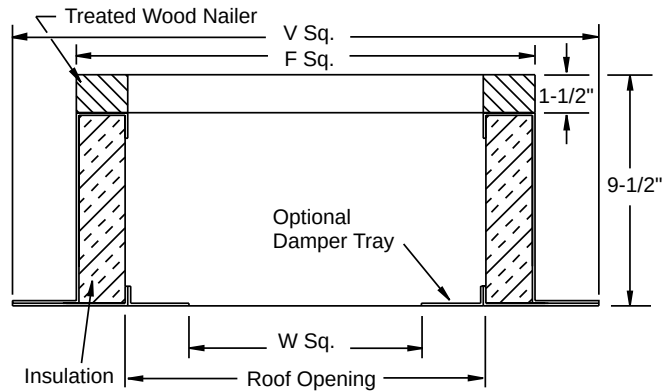


NEMA 4



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.
- Wood nailer.

Options

- Damper tray.
- No wood nailer (deduct 1-1/2" from height).
- 13-1/2" tall construction.
- 3" cant (add 4" to V Sq. dimension).

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 Dimension Data

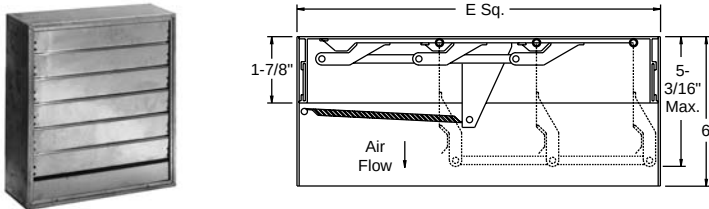
PR/ TR	LSUG	Catalog Number (Galvanized)	F Sq.	V Sq.	W Sq.	Roof Opening
8	-	RCG-16	16-1/2	20-1/2	9-3/4	13-1/2
12	-	RCG-18	18-1/2	22-1/2	11-3/4	15-1/2
16	-	RCG-26	26-1/2	30-1/2	19-3/4	23-1/2
20	-	RCG-30	30-1/2	34-1/2	23-3/4	27-1/2
24	24	RCG-34	34-1/2	38-1/2	27-3/4	31-1/2
30	30	RCG-40	40-1/2	44-1/2	33-3/4	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.

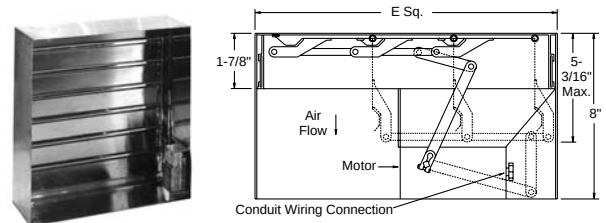
Dampers

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.

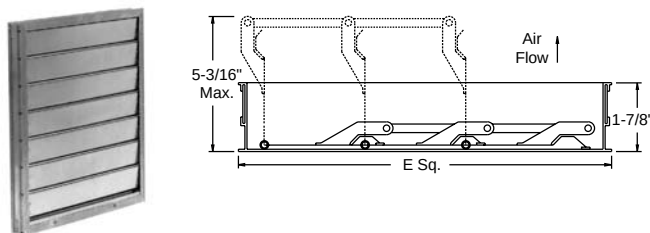
Intake Backdraft Damper



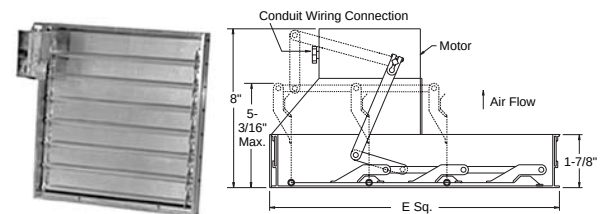
Motorized Intake Backdraft Damper



Gravity Backdraft Damper



Motorized Backdraft Damper



ACCESSORIES

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 ^Δ	
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.

^ΔBDM - 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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