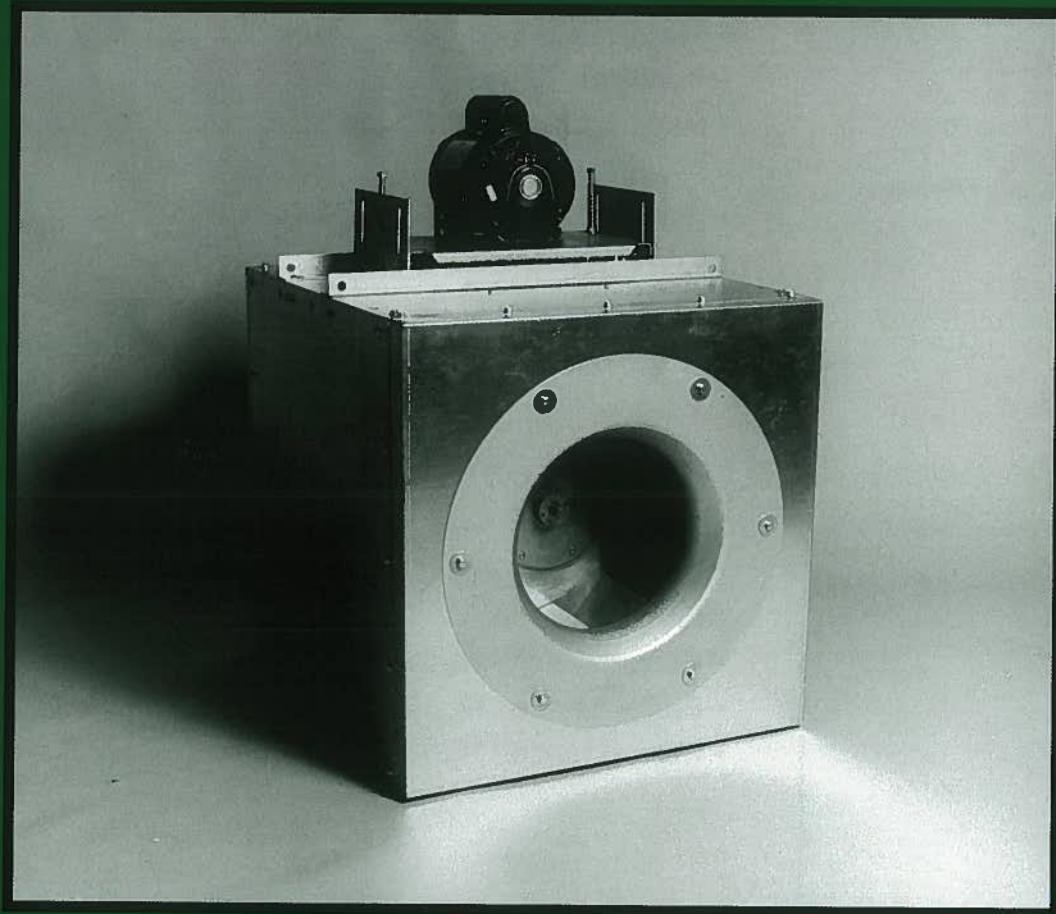




AMERICAN COOLAIR CORPORATION



Square In-Line Centrifugal Fans

TYPE SQBA - BELT DRIVE

TYPE SQDA - DIRECT DRIVE

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BELT DRIVE

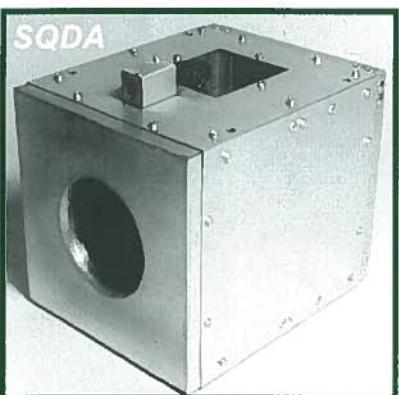


Sizes 06 to 44
*Flow rates from
115 to 31,491 CFM
and 3" Static Pressure*

SQBA

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DIRECT DRIVE



Sizes 06 to 18
*Flow rates from
122 to 4,014 CFM
and 2" Static Pressure*

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STANDARD FEATURES

SQBA AND SQDA UNITS

Rigid internal cross bracing system properly supports drive.

Out-of-airstream open drip-proof motors are isolated for protection from exhaust airstream.

Three side panels are removable for total access to internal components.

Aluminum centrifugal wheel is a non-overloading, backward-inclined design and is computer balanced.

Overlapping wheel and deep-spun venturi minimize noise and air turbulence, increasing efficiency.

Permanently affixed wheel balance weights assure vibration-free operation.

Galvanized outer skin protects against corrosion and matches common duct material.

AMCA Seal assures certified rating of air and sound performance.

UL Listed for Standard 705.

SQBA

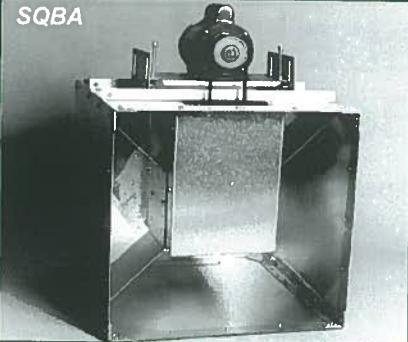
Safety disconnect switch is an available option.

Belt drive with adjustable motor pulley for flexibility to match operating requirements.

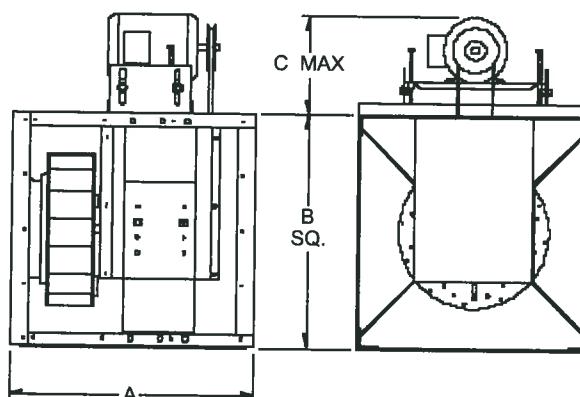
Heavy duty pillow-block ball bearings with cast iron housing are self-aligning and relubricable.

Adjustable motor base facilitates maintenance of belt tension.

SQBA



SQBA Dimensions



SIZE	A	B	C
06-10	17	14	10 $\frac{3}{4}$
12	25 $\frac{3}{4}$	18	16 $\frac{5}{8}$
13	26 $\frac{3}{8}$	20	16 $\frac{5}{8}$
15	27 $\frac{7}{8}$	23	16 $\frac{5}{8}$
16	27 $\frac{3}{8}$	25 $\frac{1}{2}$	16 $\frac{5}{8}$
18	27 $\frac{1}{4}$	28 $\frac{1}{2}$	16 $\frac{5}{8}$
20	28 $\frac{3}{4}$	30 $\frac{1}{2}$	16 $\frac{5}{8}$
24	36 $\frac{5}{8}$	36 $\frac{1}{2}$	16 $\frac{3}{4}$
30	39 $\frac{1}{4}$	45 $\frac{1}{2}$	17 $\frac{5}{8}$
36	42 $\frac{5}{8}$	56	17 $\frac{5}{8}$
44	46 $\frac{7}{8}$	68	17 $\frac{5}{8}$

Dimensions in inches

SQDA

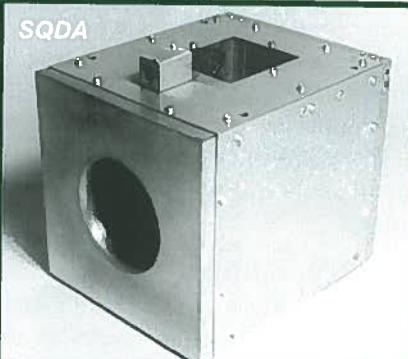
Disconnect device with factory mounted and wired junction box is standard.

Direct-drive assembly reduces maintenance and operating costs.

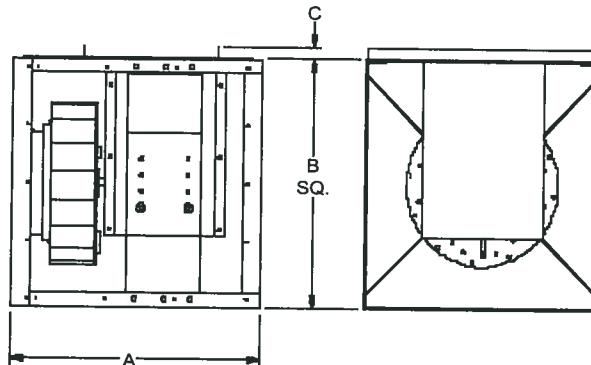
Variable speed control is available on some models.

Drive compartment isolates motor from airstream.

SQDA



SQDA Dimensions



SIZE	A	B	C
06-10	17	14	--
12	25 $\frac{3}{4}$	18	1 $\frac{3}{8}$
13	26 $\frac{3}{8}$	20	1 $\frac{3}{8}$
15	27 $\frac{7}{8}$	23	1 $\frac{3}{8}$
16	27 $\frac{3}{8}$	25 $\frac{1}{2}$	1 $\frac{3}{8}$
18	27 $\frac{1}{4}$	28 $\frac{1}{2}$	1 $\frac{3}{8}$

Dimensions in inches

SQBA

Belt Drive Square In-Line Fans

Applications

The SQBA units are quiet, dependable in-line centrifugal fans recommended for a wide range of general exhaust applications where low, medium and high ranges of air volume and pressure are specified, in both ducted and non-ducted ventilation systems. Applications include virtually all types of light manufacturing, commercial and institutional buildings such as shopping centers, hospitals, schools, hotels, office and apartment buildings, warehouses, airports, bus terminals and many others.

Designed for easy positioning and quick installation, the versatile Square In-Line can be located inside equipment rooms, in ceiling spaces or as parts of O.E.M. equipment.

The advantages of an SQBA belt-drive unit over a direct-drive in-line fan include quieter operation, adjustable performance to suit operating needs and availability of larger volume units.

Construction

SQBA models feature a housing of durable mill galvanized outer "skin" over a rigid frame which is designed to provide an attractive finish, yet be a rigid unit to resist severe installation and handling conditions commonly encountered. Three of the four sides of the unit are removable, providing access to the internal parts for inspection and maintenance without disturbing the framework.

The overlapping deep-spun venturi minimizes air turbulence and increases efficiency. The aluminum centrifugal wheel is a non-overloading, backward-inclined type, selected for low noise levels. The wheels are computer balanced on state-of-the-art equipment.

The SQBA wheel is secured to a machined aluminum hub with a line bore, which eliminates the need for bushings.

Drive Mechanism

The SQBA utilizes a standard V-belt drive design with variable pitch cast iron motor pulley for adjusting fan speed. The drive shaft is turned, ground and polished. All components are out of the airstream. The motor support is adjustable for proper tensioning.

Bearings

Heavy duty pillow-block bearings with cast iron housing are self-aligning and relubricable.

Motors

The standard motor for SQBA models is open drip-proof construction, located out of the airstream. Totally enclosed, energy efficient, two-speed and explosion-proof motors may also be available. Motor enclosure may affect UL Listing. All motor brands are recognized and serviced nationwide.



Type SQBA ventilators are Listed by Underwriters Laboratory Inc. to US and Canadian safety standards.



American Coolair Corporation, ILG Industries Division certifies that the Type SQBA units 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.

Guide Specifications

Duct mounted square in-line fans shall be of the SQBA centrifugal type as manufactured by ILG Industries of American Coolair Corporation (individual models to be listed in fan schedule). Units shall bear the AMCA Certified Ratings Seal for air and sound performance. Housing and rigid frame of the fans to be galvanized steel, with wheel and venturi overlapping for efficient operation. Three sides of the unit are to be removable for access to the inside fan components and drive.

Drive mechanism shall incorporate a V-belt drive with cast iron motor pulley. Drive shaft shall be turned, ground and polished. The centrifugal wheel shall be heavy gauge aluminum with backward-inclined, non-overloading blades and be computer balanced.

Bearings shall be self-aligning and have fittings for relubrication.

Motor shall be open drip-proof construction, NEMA design B with minimum service factor of 1.15. Adjustable motor pulley shall be provided to allow for field adjustment and system balance. Motor shall be mounted on an adjustable steel mounting bracket. Motor shall be mounted to allow easy access to the cast iron variable pitch drive pulley.

(Safety disconnect switch, backdraft damper, epoxy coating and other accessories shall be listed in the fan schedule.)

SQBA06-SQBA08 Performance Data

CFM at Static Pressure												RPM Range Motor HP			RPM	
0.00	.125	.250	.375	.500	.625	.750	1.00	1.25	1.50	1/4 D1	1/4 D2	1/4 D3				
BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone							
267	203	113														986
0.02 3.3	0.02 2.6	0.02 2.1														
294	237	168														1085
0.02 4.0	0.02 3.4	0.02 3.0														
317	267	206	115													1171
0.03 4.8	0.03 4.3	0.03 3.8	0.02 3.4													
351	309	252	187													1294
0.03 5.9	0.03 5.5	0.03 5.1	0.03 4.7													
384	349	294	246	173												1417
0.04 6.9	0.05 6.4	0.05 6.1	0.05 5.7	0.05 5.4												
401	369	316	270	208												1479
0.05 7.4	0.05 7.0	0.05 6.6	0.05 6.2	0.05 5.9												
434	406	358	314	269												1602
0.06 8.5	0.06 8.2	0.07 7.9	0.07 7.4	0.07 7.1												
484	461	422	378	341	299											1787
0.09 10.3	0.09 10.0	0.09 9.8	0.09 9.4	0.09 9.0	0.09 8.8											
501	479	443	399	362	325											1848
0.10 11.0	0.10 10.7	0.10 10.5	0.10 10.1	0.10 9.7	0.10 9.4											
534	514	483	442	405	371	333										1971
0.12 12.4	0.12 12.1	0.12 11.9	0.12 11.7	0.12 11.2	0.12 10.9	0.12 10.7										
568	549	523	485	448	415	383										
0.14 14.1	0.14 13.8	0.15 13.6	0.15 13.5	0.15 13.2	0.15 12.7	0.15 12.4										2095

CFM at Static Pressure												RPM Range Motor HP			RPM	
0.00	.125	.250	.375	.500	.625	.750	1.00	1.25	1.50	1/4 D1	1/4 D2	1/4 D3				
BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone	BHP Sone							
369	316	223														986
0.02 3.4	0.02 3.0	0.02 2.8														
406	359	293														1085
0.02 4.2	0.02 3.9	0.02 3.6														
439	395	344	238													1171
0.03 5.1	0.03 4.9	0.03 4.5	0.03 4.2													
485	446	404	337													1294
0.04 6.2	0.04 6.1	0.04 5.7	0.04 5.5													
531	495	457	412	334												1417
0.05 7.2	0.05 7.1	0.05 6.8	0.05 6.5	0.05 6.3												1479
554	520	484	445	379	267											
0.05 7.8	0.05 7.7	0.06 7.3	0.06 7.1	0.06 7.0	0.06 6.8											
600	568	536	502	456	388											1602
0.07 9.0	0.07 8.8	0.07 8.6	0.07 8.3	0.08 8.2	0.08 8.0											
669	641	613	582	552	508	448										1787
0.09 11.0	0.10 10.9	0.10 10.6	0.10 10.3	0.10 10.1	0.11 10.0	0.11 9.8										
692	665	638	608	579	543	488	305									1848
0.10 11.7	0.11 11.6	0.11 11.3	0.11 11.1	0.12 10.8	0.12 10.7	0.12 10.5	0.10 10.2									
738	712	687	661	632	604	564	446									1971
0.13 13.3	0.13 13.4	0.13 13.2	0.13 12.8	0.14 12.5	0.14 12.3	0.15 12.0	0.14 11.7									
785	760	736	712	686	660	631	538	383								
0.15 15.1	0.15 15.2	0.16 15.0	0.16 14.7	0.16 14.4	0.17 14.1	0.17 13.9	0.18 13.6	0.16 13.3								2095

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

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 show are for installation Type B: free inlet fan sone levels.

SQBA10 Performance Data

CFM at Static Pressure												RPM Range Motor HP				RPM
0.00	.125	.250	.375	.500	.625	.750	1.00	1.25	1.50	1/4 D1	1/4 D2	1/4 D3	1/3			
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	986
452		376		312												
0.02	3.7	0.02	3.6	0.02	3.2											1035
475		403		351												
0.02	4.1	0.02	4.0	0.03	3.6											1085
497		431		378												
0.02	4.5	0.03	4.4	0.03	4.1											1134
520		458		402												
0.03	4.9	0.03	4.8	0.03	4.6											1171
537		478		419		303										
0.03	5.2	0.03	5.2	0.04	5.0	0.03	4.5									1232
565		511		449		407										
0.03	5.9	0.04	5.9	0.04	5.6	0.04	5.1									1294
593		542		480		445										
0.04	6.4	0.04	6.4	0.05	6.2	0.05	5.8									1355
621		573		511		475		355								
0.04	6.9	0.05	6.9	0.05	6.9	0.06	6.5	0.05	6.2							1417
650		604		544		505		465								
0.05	7.6	0.05	7.6	0.06	7.6	0.06	7.3	0.07	6.9							1479
678		635		578		536		505								
0.06	8.2	0.06	8.2	0.07	8.2	0.07	8.0	0.08	7.7							1540
706		664		612		566		537		446						
0.06	8.8	0.07	8.9	0.08	8.9	0.08	8.9	0.09	8.4	0.08	8.2					1602
735		695		647		597		567		534						
0.07	9.6	0.08	9.6	0.08	9.6	0.09	9.7	0.09	9.3	0.10	9.0					1663
762		724		680		628		597		570		441				
0.08	10.2	0.09	10.3	0.09	10.3	0.10	10.5	0.10	10.1	0.11	9.7	0.10	9.6			1725
791		754		713		660		627		602		561				
0.09	10.9	0.10	11.0	0.10	10.9	0.11	11.1	0.11	10.9	0.12	10.4	0.12	10.2			1787
819		784		745		694		657		632		605				
0.10	11.6	0.11	11.7	0.11	11.7	0.12	11.7	0.13	11.6	0.13	11.2	0.14	10.8			1848
847		813		776		728		688		662		638				
0.11	12.3	0.12	12.4	0.12	12.4	0.13	12.4	0.14	12.4	0.14	12.0	0.15	11.6			1910
876		843		807		763		720		692		669		491		
0.12	13.0	0.13	13.1	0.14	13.1	0.14	13.1	0.15	13.1	0.16	12.8	0.16	12.4	0.15	11.9	1971
904		872		838		797		752		722		699		622		
0.14	13.7	0.14	13.8	0.15	13.8	0.16	13.8	0.16	13.8	0.17	13.6	0.18	13.2	0.18	12.6	2033
932		901		869		831		785		752		729		679		
0.15	14.4	0.15	14.6	0.16	14.6	0.17	14.5	0.18	14.6	0.18	14.5	0.19	14.0	0.20	13.3	2095
961		931		899		864		819		784		759		716		
0.16	15.3	0.17	15.4	0.18	15.5	0.18	15.4	0.19	15.4	0.20	15.3	0.21	15.0	0.22	14.1	2156
989		959		929		896		853		815		789		748		
0.18	16.2	0.18	16.3	0.19	16.4	0.20	16.4	0.21	16.3	0.22	16.2	0.22	15.9	0.23	15.0	2218
1017		989		959		928		888		848		820		779		
0.19	17.1	0.20	17.2	0.21	17.3	0.22	17.4	0.23	17.3	0.23	17.0	0.24	16.8	0.25	16.0	2280
1045		1018		989		959		923		881		851		809		
0.21	18.1	0.22	18.2	0.22	18.3	0.23	18.4	0.24	18.3	0.25	18.1	0.26	17.8	0.27	16.9	2341
1073		1047		1019		990		956		915		882		838		
0.23	19.1	0.23	19.2	0.24	19.3	0.25	19.4	0.26	19.4	0.27	19.2	0.28	18.8	0.29	18.0	2341
1091		1069		1039		1009		975		935		895		850		
0.25	20.1	0.25	20.2	0.26	20.3	0.27	20.4	0.28	20.4	0.29	20.2	0.30	19.8	0.31	19.0	2341
1119		1097		1067		1037		1003		963		923		878		
0.27	21.1	0.27	21.2	0.28	21.3	0.29	21.4	0.30	21.4	0.31	21.2	0.32	20.8	0.33	20.0	2341
1147		1125		1095		1065		1035		995		955		910		
0.29	22.1	0.29	22.2	0.30	22.3	0.31	22.4	0.32	22.4	0.33	22.2	0.34	21.8	0.35	21.0	2341
1175		1153		1123		1093		1063		1023		983		938		
0.31	23.1	0.31	23.2	0.32	23.3	0.33	23.4	0.34	23.4	0.35	23.2	0.36	22.8	0.37	22.0	2341
1203		1181		1151		1121		1091		1051		1011		966		
0.33	24.1	0.33	24.2	0.34	24.3	0.35	24.4	0.36	24.4	0.37	24.2	0.38	23.8	0.39	23.0	2341
1231		1209		1179		1149		1119		1079		1039		994		
0.35	25.1	0.35	25.2	0.36	25.3	0.37	25.4	0.38	25.4	0.39	25.2	0.40	24.8	0.41	24.0	2341
1259		1237		1207		1177		1147		1107		1067		1022		
0.37	26.1	0.37	26.2	0.38	26.3	0.39	26.4	0.40	26.4	0.41	26.2	0.42	25.8	0.43	25.0	2341
1287		1265		1235		1205		1175		1135		1095		1050		
0.39	27.1	0.39	27.2	0.40	27.3	0.41	27.4	0.42	27.4	0.43	27.2	0.44	26.8	0.45	26.0	2341
1315		1293		1263		1233		1203		1163		1123		1083		
0.41	28.1	0.41	28.2	0.42	28.3	0.43	28.4	0.44	28.4	0.45	28.2	0.46	27.8	0.47	27.0	2341
1343		1321		1291		1261		1231		1191		1151		1111		
0.43	29.1	0.43	29.2	0.44	29.3	0.45	29.4	0.46	29.4	0.47	29.2	0.48	28.8	0.49	28.0	2341
1371		1349		1319		1289		1259		1219		1179		1139		
0.45	30.1	0.45	30.2	0.46	30.3	0.47	30.4	0.48	30.4	0.49	30.2	0.50	29.8	0.51	29.0	2341
1409		1387		1357		1327		1297		1257		1217		1177		
0.47	31.1	0.47	31.2	0.48	31.3	0.49	31.4	0.50	31.4	0.51	31.2	0.52	29.8	0.53	29.0	2341
1447		1425		1395		1365		1335		1295		1255		1215		
0.49	32.1	0.49	32.2	0.50	32.3	0.51	32.4	0.52	32.4	0.53	32.2	0.54	29.8	0.55	29.0	2341
1485		1463		1433		1403		1373		1333		1293		1253		
0.51	33.1	0.51	33.2	0.52	33.3	0.53	33.4	0.54	33.4	0.55	33.2	0.56	29.8	0.57	29.0	2341
1523		1501		1471		1441		1411		1371		1331		1291		
0.53	34.1	0.53	34.2	0.54	34.3	0.55	34.4	0.56	34.4	0.57	34.2	0.58	29.8	0.59	29.0	2341
1561		1539		1509		1479		1449		1409		1369		1329		
0.55	35.1	0.55	35.2	0.56	35.3	0.57	35.4	0.58	35.4	0.59	35.2	0.60	29.8	0.61	29.0	2341
1599		1577		1547		1517		1487		1457		1417		1377		
0.57	36.1	0.57</														

SQBA12 Performance Data

CFM at Static Pressure												RPM Range Motor HP					RPM								
.125	.250	.375	.500	.750	1.00	1.50	2.00	2.50	3.00																
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/4	1/3	1/2	3/4	1	1½
985		889		788		661																		1078	
0.10	6.5	0.11	6.2	0.11	6.2	0.11	6.0																		
1042		953		860		746																		1132	
0.11	7.1	0.12	6.7	0.13	6.9	0.13	6.6																		
1155		1080		993		904		682																1240	
0.15	8.5	0.16	7.9	0.17	8.1	0.17	8.0	0.17	7.4																
1211		1142		1058		976		769																1294	
0.16	9.3	0.18	8.6	0.19	8.7	0.19	8.8	0.19	8.3																
1323		1261		1186		1111		937		736														1402	
0.21	10.8	0.22	10.2	0.23	10.0	0.24	10.3	0.25	9.9	0.24	9.1														
1378		1318		1249		1175		1017		826														1455	
0.23	11.7	0.25	11.1	0.26	10.7	0.27	10.9	0.28	10.7	0.27	10.2														
1434		1376		1312		1239		1093		911														1509	
0.26	12.6	0.27	12.0	0.28	11.4	0.29	11.6	0.31	11.6	0.30	11.1														
1489		1433		1373		1303		1166		995														1563	
0.28	13.3	0.30	12.8	0.31	12.1	0.32	12.2	0.34	12.4	0.34	11.8														
1545		1490		1434		1367		1236		1079														1617	
0.31	14.1	0.33	13.6	0.34	13.0	0.36	12.9	0.37	13.1	0.38	12.7														
1601		1547		1494		1431		1304		1161		812												1671	
0.34	14.8	0.36	14.4	0.38	13.9	0.39	13.7	0.41	13.9	0.42	13.5	0.40	12.2												
1656		1603		1553		1494		1370		1238		916												1725	
0.38	15.6	0.39	15.2	0.41	14.7	0.43	14.5	0.45	14.7	0.46	14.5	0.45	13.1												
1711		1660		1611		1557		1435		1312		1007												1779	
0.41	16.6	0.43	16.1	0.45	15.6	0.46	15.3	0.49	15.5	0.50	15.4	0.49	14.3												
1767		1716		1669		1618		1499		1384		1092												1833	
0.45	17.5	0.47	17.1	0.49	16.5	0.50	16.1	0.53	16.3	0.55	16.4	0.54	15.4												
1822		1772		1727		1678		1564		1453		1177												1887	
0.49	18.3	0.51	18.0	0.53	17.5	0.55	17.1	0.57	17.0	0.59	17.3	0.60	16.4												
1932		1884		1841		1797		1692		1586		1344		1063										1995	
0.57	20	0.60	19.9	0.62	19.5	0.64	19.0	0.67	18.6	0.69	19.0	0.71	18.3	0.69	16.9										
1987		1939		1896		1854		1754		1650		1424		1152											2048
0.62	21	0.64	21	0.66	20	0.68	19.9	0.72	19.4	0.74	19.8	0.77	19.3	0.75	18.3										
2042		1995		1953		1912		1818		1714		1501		1238											2102
0.67	22	0.69	22	0.71	21	0.74	21	0.77	20	0.80	21	0.83	20	0.82	19.5										
2097		2050		2009		1969		1880		1778		1576		1323											2156
0.72	23	0.74	23	0.77	22	0.79	22	0.83	21	0.86	21	0.89	22	0.89	21										
2152		2106		2065		2027		1942		1842		1649		1407		1151									2210
0.77	24	0.80	24	0.82	23	0.85	23	0.89	22	0.92	22	0.96	23	0.96	22	0.94	20								
2207		2162		2121		2084		2003		1906		1719		1491		1246									2264
0.83	25	0.86	25	0.88	25	0.90	24	0.95	23	0.98	23	1.03	24	1.04	22.6	1.02	22								
2261		2217		2178		2140		2063		1970		1788		1574		1334									2318
0.89	26	0.92	26	0.94	26	0.97	25	1.01	24	1.05	24	1.10	25	1.11	24	1.10	23								
2383		2340		2302		2266		2195		2111		1936		1749		1522		1292							2438
1.03	28	1.06	28	1.09	28	1.11	28	1.16	27	1.20	26	1.26	27	1.29	26	1.29	26	1.26	24						
2446		2404		2366		2331		2262		2183		2010		1835		1619		1398							2500
1.11	30	1.14	30	1.17	29	1.19	29	1.25	28	1.29	27	1.35	28	1.39	28	1.39	27	1.37	26						
2510		2469		2431		2396		2330		2255		2086		1919		1716		1499							2563
1.20	31	1.23	31	1.25	31	1.28	30	1.34	29	1.38	28	1.45	29	1.50	29	1.50	28	1.48	27						

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

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 B: free inlet fan sone levels.

SQBA13 Performance Data

CFM at Static Pressure												RPM Range Motor HP						RPM								
.125	.250	.375	.500	.750	1.00	1.50	2.00	2.50	3.00	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/4	1/3	1/2	3/4	1	1 1/4	
1513	1418	1316	1203	916																						1132
0.18	8.9	0.19	8.4	0.20	8.0	0.21	7.8	0.21	7.3																	1186
1594	1504	1408	1304	1045																						1240
0.20	9.8	0.21	9.2	0.23	8.9	0.24	8.6	0.24	8.2																	1294
1675	1589	1499	1402	1171																						1348
0.23	10.8	0.24	10.2	0.26	9.8	0.27	9.5	0.28	9.1																	1402
1755	1673	1588	1497	1288	1025																					1455
0.26	11.8	0.27	11.1	0.29	10.7	0.30	10.4	0.31	10.1	0.31	9.7															1509
1834	1757	1675	1590	1398	1156																					1563
0.29	12.8	0.31	12.2	0.32	11.7	0.34	11.4	0.35	11.1	0.35	10.7															1617
1914	1839	1762	1681	1503	1284																					1725
0.33	13.7	0.34	13.0	0.36	12.5	0.37	12.2	0.39	11.9	0.40	11.6															1779
1992	1920	1846	1769	1602	1404																					1833
2071	2002	1931	1857	1700	1519																					1887
0.40	15.3	0.42	14.6	0.44	14.1	0.45	13.8	0.48	13.3	0.50	13.1															1941
2150	2083	2015	1945	1795	1628	1196																				2023
2228	2165	2099	2031	1889	1732	1335																				2078
0.49	17.0	0.51	16.4	0.53	15.9	0.55	15.4	0.58	14.9	0.60	14.6	0.61	14.1													2133
2307	2245	2182	2117	1981	1833	1464																				2188
0.54	17.9	0.56	17.2	0.58	16.7	0.60	16.3	0.64	15.8	0.66	15.5	0.68	14.9													2242
2385	2326	2265	2202	2072	1932	1590																				2242
0.60	18.7	0.62	18.1	0.64	17.6	0.66	17.2	0.69	16.7	0.72	16.5	0.74	15.9													2242
2464	2406	2347	2287	2162	2028	1712																				2242
0.65	19.6	0.67	19.0	0.69	18.5	0.71	18.1	0.75	17.7	0.79	17.4	0.82	17.0													2242
2542	2486	2429	2371	2250	2122	1828	1457																			2242
0.71	20	0.73	19.8	0.76	19.4	0.78	19.1	0.82	18.6	0.85	18.3	0.89	17.9	0.89	17.2											2242
2620	2566	2511	2454	2338	2215	1939	1589																			2242
0.78	21	0.80	21	0.82	20	0.84	19.9	0.88	19.4	0.92	19.1	0.97	18.7	0.97	18.2											2242
2698	2645	2592	2537	2425	2307	2046	1717																			2242
0.84	23	0.87	22	0.89	21	0.91	21	0.95	20	1.00	19.9	1.05	19.5	1.06	19.1											2242
2816	2766	2715	2663	2556	2444	2201	1908	1559																		2242
0.95	24	0.98	24	1.00	23	1.02	23	1.07	22	1.11	22	1.18	21	1.20	21	1.19	20									2242
2895	2846	2797	2746	2643	2535	2303	2029	1701																		2242
1.03	25	1.06	25	1.08	24	1.10	24	1.15	23	1.20	23	1.27	22	1.30	22	1.30	21									2242
2975	2927	2879	2830	2729	2625	2402	2145	1832																		2242
1.12	27	1.14	26	1.16	26	1.19	25	1.24	25	1.28	24	1.36	24	1.40	23	1.40	23									2242
3054	3007	2960	2913	2815	2714	2500	2257	1962	1619																2242	
1.20	28	1.23	27	1.25	27	1.28	26	1.33	26	1.38	25	1.46	25	1.51	24	1.52	24	1.49	23							2242
3131	3086	3040	2994	2899	2801	2594	2363	2088	1777																2242	
1.29	29	1.32	29	1.34	28	1.37	28	1.42	27	1.47	26	1.56	26	1.62	26	1.63	25	1.63	24							2242

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

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 B: free inlet fan sone levels.

SQBA15 Performance Data

CFM at Static Pressure												RPM Range Motor HP		RPM					
.125	.250	.375	.500	.750	1.00	1.50	2.00	2.50	3.00	1/3	1/2	3/4	1	1½	2				
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone		
2042		1942		1837		1712		1410										1119	
0.27	12.1	0.29	11.2	0.31	10.7	0.32	9.9	0.32	8.7										
2136		2040		1942		1827		1548		1210								1166	
0.30	13.0	0.32	12.1	0.34	11.6	0.35	10.8	0.37	9.6	0.36	8.9								
2228		2135		2042		1937		1678		1378								1212	
0.34	13.9	0.36	13.0	0.38	12.5	0.39	11.9	0.41	10.5	0.41	9.9								
2322		2232		2144		2046		1807		1528								1259	
0.38	14.8	0.40	13.9	0.42	13.4	0.44	12.9	0.46	11.5	0.46	11.0								
2413		2326		2241		2150		1929		1666								1305	
0.42	15.8	0.44	14.8	0.46	14.3	0.48	14.1	0.51	12.6	0.51	12.2								
2507		2422		2340		2255		2050		1803								1352	
0.46	16.8	0.49	15.8	0.51	15.2	0.53	15.1	0.56	13.8	0.57	13.4								
2600		2518		2438		2357		2167		1936								1399	
0.51	17.8	0.53	16.9	0.56	16.2	0.58	16.1	0.61	15.1	0.63	14.5								
2784		2706		2631		2557		2390		2188		1713							1492
0.61	19.8	0.64	18.9	0.67	18.3	0.69	18.0	0.73	17.7	0.76	16.7	0.77	16.0						
2876		2800		2728		2656		2499		2311		1862							1539
0.67	21	0.70	20	0.73	19.3	0.76	19.0	0.80	19.0	0.83	17.8	0.84	17.3						
2967		2893		2822		2752		2604		2427		2001							1585
0.73	22	0.76	21	0.79	20	0.82	19.9	0.87	20.3	0.90	19.0	0.92	18.7						
3059		2987		2918		2850		2709		2543		2139		1632					1632
0.80	23	0.83	22	0.86	21	0.89	21	0.94	22	0.97	20	1.01	20	0.98	19.1				
3150		3079		3011		2946		2810		2654		2271		1825					1678
0.87	24	0.90	23	0.93	22	0.96	22	1.01	23	1.05	22	1.09	21	1.09	21				
3291		3223		3158		3094		2966		2823		2472		2065					1750
0.98	26	1.01	25	1.04	24	1.08	24	1.14	24	1.18	24	1.23	23	1.24	23				
3383		3317		3253		3191		3067		2931		2600		2211					1797
1.06	27	1.09	27	1.12	26	1.16	25	1.22	25	1.27	26	1.33	24	1.34	24				
3569		3505		3444		3385		3268		3144		2848		2492		2097			1892
1.23	29	1.27	29	1.30	28	1.34	27	1.40	27	1.46	28	1.53	26	1.57	26	1.57	25		
3661		3599		3539		3480		3366		3248		2967		2627		2253			1939
1.32	30	1.36	30	1.39	29	1.43	28	1.50	28	1.56	28	1.64	26	1.68	27	1.69	26		
3753		3692		3633		3576		3464		3350		3084		2759		2401		1924	
1.42	31	1.46	31	1.49	30	1.53	29	1.60	28	1.67	29	1.76	27	1.80	27	1.81	27	1.75	26
3846		3787		3729		3673		3564		3453		3200		2891		2547		2155	
1.52	32	1.56	32	1.60	31	1.64	30	1.71	29	1.78	30	1.88	29	1.93	28	1.95	28	1.94	27

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

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 B: free inlet fan sone levels.

SQBA16 Performance Data

CFM at Static Pressure												RPM Range Motor HP					RPM	
.125	.250	.375	.500	.750	1.00	1.50	2.00	2.50	3.00	1/2	3/4	1	1½	2				
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	RPM	
1991		1868		1730		1495											807	
0.20	6.8	0.21	6.6	0.23	6.4	0.23	6.1											
2096		1973		1858		1644											844	
0.23	7.4	0.24	7.2	0.26	7.0	0.26	6.8											
2202		2078		1974		1794											881	
0.26	8.0	0.27	7.8	0.29	7.6	0.30	7.4											
2307		2182		2084		1945		1483									918	
0.29	8.7	0.31	8.4	0.32	8.2	0.33	8.0	0.32	7.3									
2410		2284		2189		2076		1682									954	
0.32	9.3	0.34	9.0	0.36	8.8	0.37	8.6	0.37	8.0									
2515		2388		2295		2198		1841									991	
0.36	9.9	0.38	9.7	0.40	9.4	0.41	9.2	0.42	8.8									
2620		2493		2400		2311		1991		1447							1028	
0.40	10.6	0.42	10.4	0.44	10.1	0.45	9.9	0.47	9.5	0.43	8.8							
2722		2595		2502		2418		2136		1740							1064	
0.44	11.3	0.46	11.0	0.48	10.8	0.50	10.6	0.52	10.2	0.50	9.4							
2827		2701		2607		2526		2289		1939							1101	
0.48	12.1	0.51	11.8	0.53	11.6	0.55	11.3	0.58	10.9	0.57	10.3							
2931		2806		2711		2632		2434		2100							1138	
0.53	12.9	0.56	12.7	0.58	12.4	0.60	12.2	0.63	11.7	0.64	11.1							
3033		2909		2813		2735		2562		2247							1174	
0.58	13.7	0.61	13.5	0.63	13.2	0.65	13.0	0.69	12.5	0.70	11.9							
3137		3014		2917		2840		2683		2395							1211	
0.64	14.5	0.67	14.3	0.69	14.0	0.71	13.8	0.75	13.4	0.77	12.8							
3240		3120		3022		2944		2798		2546							1248	
0.69	15.4	0.72	15.2	0.75	14.9	0.78	14.7	0.82	14.2	0.84	13.7							
3344		3225		3127		3049		2908		2698		1996						1285
0.76	16.2	0.79	16.1	0.82	15.9	0.84	15.7	0.88	15.2	0.92	14.6	0.87	13.1					
3497		3382		3283		3204		3069		2905		2335						1340
0.85	17.6	0.89	17.4	0.92	17.3	0.95	17.0	0.99	16.6	1.03	16.1	1.03	14.6					
3603		3490		3392		3311		3179		3033		2506						1378
0.93	18.5	0.96	18.4	0.99	18.2	1.02	18.0	1.07	17.5	1.11	17.0	1.13	15.7					
3706		3596		3497		3416		3284		3151		2659						1415
1.00	19.3	1.04	19.1	1.07	19.0	1.10	18.8	1.15	18.3	1.19	17.8	1.23	16.6					
3809		3701		3603		3521		3390		3263		2808		2032				1452
1.08	20	1.12	20	1.15	19.8	1.18	19.6	1.24	19.1	1.28	18.6	1.33	17.6	1.20	16.1			
3911		3806		3708		3626		3494		3374		2957		2347				1489
1.16	21	1.20	21	1.24	21	1.27	21	1.33	20	1.37	19.5	1.43	18.4	1.36	17.0			
4017		3913		3817		3734		3602		3485		3112		2593				1527
1.25	22	1.29	22	1.33	22	1.36	21	1.42	21	1.47	20	1.54	19.4	1.51	18.0			
4119		4018		3922		3839		3706		3592		3265		2774				1564
1.34	23	1.38	23	1.42	23	1.46	22	1.52	22	1.57	21	1.65	20	1.64	19.0			
4221		4122		4028		3944		3810		3699		3411		2935				1601
1.44	24	1.48	23	1.52	23	1.56	23	1.62	23	1.68	22	1.76	21	1.77	20			
4323		4226		4133		4050		3915		3804		3547		3087		2396		1638
1.54	24	1.58	24	1.62	24	1.66	24	1.73	24	1.78	23	1.88	22	1.91	21	1.76	19.7	
4428		4333		4242		4158		4022		3912		3676		3240		2707		1676
1.65	25	1.69	25	1.73	25	1.77	25	1.84	25	1.90	24	2.00	23	2.04	22	1.96	20.7	

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

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 B: free inlet fan sone levels.

SQBA18 Performance Data

CFM at Static Pressure												RPM Range Motor HP					RPM	
.125	.250	.375	.500	.750	1.00	1.50	2.00	2.50	3.00	1/2	3/4	1	1½	2	3			
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	RPM	
2423		2252		2031		1807											734	
0.23	6.6	0.25	6.3	0.27	5.8	0.27	5.4											
2561		2403		2202		1984											771	
0.26	7.2	0.28	6.9	0.30	6.6	0.31	6.1											
2695		2546		2364		2155											807	
0.30	7.9	0.32	7.5	0.34	7.2	0.36	6.7											
2831		2690		2526		2329		1939									844	
0.34	8.5	0.36	8.2	0.39	8.0	0.40	7.5	0.41	6.8									
2967		2833		2683		2500		2126									881	
0.38	9.3	0.41	8.9	0.43	8.7	0.45	8.3	0.47	7.4									
3103		2975		2836		2668		2305									918	
0.43	10.0	0.46	9.7	0.48	9.4	0.51	9.1	0.53	8.1									
3235		3111		2982		2828		2477		2122							954	
0.48	10.7	0.51	10.3	0.54	10.1	0.56	9.9	0.59	8.9	0.59	8.4							
3369		3251		3128		2987		2652		2324							991	
0.53	11.5	0.56	11.1	0.59	10.9	0.62	10.6	0.66	9.7	0.67	9.0							
3504		3390		3273		3143		2826		2507							1028	
0.59	12.3	0.62	11.9	0.66	11.7	0.68	11.5	0.73	10.7	0.75	9.7							
3635		3524		3412		3291		2993		2680							1064	
0.65	13.1	0.69	12.7	0.72	12.4	0.75	12.3	0.80	11.6	0.82	10.7							
3769		3662		3554		3440		3163		2857							1101	
0.72	13.9	0.76	13.5	0.79	13.2	0.82	13.1	0.88	12.6	0.91	11.6							
3902		3799		3695		3587		3329		3033							1138	
0.79	14.8	0.83	14.4	0.87	14.1	0.90	13.9	0.96	13.5	1.00	12.7							
4032		3932		3832		3729		3488		3202		2632						1174
0.86	15.6	0.91	15.2	0.94	14.9	0.98	14.7	1.04	14.3	1.09	13.6	1.10	12.2					
4230		4134		4039		3942		3723		3458		2923						1229
0.99	16.8	1.03	16.3	1.07	16.0	1.11	15.8	1.18	15.4	1.24	14.8	1.27	13.3					
4364		4270		4177		4084		3878		3628		3104						1266
1.08	17.5	1.12	17.0	1.17	16.7	1.20	16.5	1.28	16.2	1.34	15.7	1.39	14.2					
4497		4406		4316		4225		4030		3795		3282						1303
1.17	18.3	1.22	17.8	1.26	17.5	1.30	17.2	1.38	16.9	1.45	16.5	1.52	15.2					
4629		4541		4453		4365		4180		3959		3459		2943				1340
1.27	19.1	1.32	18.6	1.37	18.2	1.41	18.0	1.49	17.7	1.56	17.3	1.64	16.2	1.63	15.1			
4766		4680		4594		4509		4331		4124		3640		3164				1378
1.38	20	1.43	19.5	1.48	19.1	1.52	18.8	1.60	18.5	1.68	18.1	1.78	17.1	1.79	15.9			
4898		4814		4731		4648		4477		4282		3814		3355				1415
1.49	21	1.54	20	1.59	20	1.64	19.7	1.72	19.3	1.80	19.0	1.92	18.1	1.94	16.8			
5031		4949		4868		4787		4622		4437		3988		3536				1452
1.61	22	1.66	21	1.71	21	1.76	21	1.85	20	1.93	19.8	2.06	19.1	2.10	17.7			
5163		5083		5004		4925		4765		4590		4160		3715		3227		1489
1.73	23	1.79	22	1.84	22	1.89	22	1.98	21	2.06	21	2.21	20.0	2.26	18.7	2.22	18.1	
5263		5185		5107		5029		4873		4704		4289		3849		3406		1517
1.83	23	1.88	23	1.94	23	1.99	22	2.08	22	2.17	21	2.32	20.7	2.39	19.5	2.38	18.6	
5402		5326		5250		5174		5023		4861		4468		4036		3619		1556
1.97	24	2.03	24	2.08	24	2.14	23	2.23	23	2.32	22	2.49	22	2.57	20.7	2.58	19.5	
5538		5463		5389		5315		5168		5013		4639		4216		3810		1594
2.11	25	2.17	25	2.23	24	2.29	24	2.39	24	2.48	23	2.65	23	2.75	22	2.78	21	
5677		5604		5532		5460		5316		5166		4813		4400		4000		1633
2.27	26	2.33	26	2.39	25	2.45	25	2.55	25	2.65	24	2.83	24	2.95	23	2.99	22	

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

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 B: free inlet fan sone levels.

SQBA20 Performance Data

CFM at Static Pressure												RPM Range					RPM									
.125		.250		.375		.500		.750		1.00		1.50		2.00		2.50		3.00		Motor HP						
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	3/4	1	1½	2	3		
4184		4001		3822		3642		3225																	878	
0.64	14.1	0.67	11.8	0.70	10.5	0.73	9.8	0.75	9.1																910	
4349		4172		4000		3827		3443		2861															954	
0.71	15.1	0.74	12.8	0.77	11.3	0.80	10.7	0.83	9.9	0.82	8.8														991	
4577		4407		4242		4078		3728		3275															1043	
0.82	16.3	0.85	14.2	0.88	12.6	0.91	11.8	0.96	11.0	0.96	10.0														1080	
4768		4603		4444		4286		3957		3561															1117	
0.91	17.3	0.95	15.4	0.98	13.7	1.01	12.9	1.06	12.0	1.08	11.1														1154	
5035		4878		4726		4576		4270		3924															1191	
1.06	18.8	1.10	17.2	1.13	15.4	1.17	14.4	1.23	13.4	1.26	12.7														1229	
5224		5073		4925		4780		4487		4167															1266	
1.18	19.9	1.21	18.3	1.25	16.6	1.29	15.4	1.35	14.5	1.39	13.8														1303	
5414		5267		5123		4982		4701		4401		3533													1340	
1.30	21	1.34	19.5	1.38	17.9	1.41	16.5	1.48	15.6	1.53	14.8	1.52	12.9												1378	
5603		5460		5321		5184		4913		4629		3890														
1.43	22	1.47	21	1.51	19.0	1.55	17.8	1.62	16.8	1.68	16.0	1.70	14.1													
5791		5653		5518		5385		5122		4851		4191														
1.57	23	1.61	22	1.65	20	1.69	19.0	1.77	17.9	1.83	17.1	1.88	15.5													
5985		5851		5719		5590		5335		5076		4472														
1.72	24	1.77	23	1.81	22	1.85	20	1.93	19.1	2.00	18.3	2.06	16.9													
6173		6043		5914		5788		5541		5291		4729		3763												
1.88	25	1.92	24	1.97	23	2.01	22	2.09	20	2.17	19.4	2.25	18.1	2.15	16.2											
6361		6234		6109		5986		5745		5504		4975		4219												
2.05	26	2.09	25	2.14	24	2.18	23	2.27	21	2.34	20	2.45	19.1	2.42	17.1											
6549		6425		6304		6184		5949		5715		5214		4556												
2.22	28	2.27	27	2.32	25	2.36	24	2.45	22	2.53	21	2.65	20	2.66	18.2											
6742		6621		6503		6386		6157		5930		5452		4860												
2.41	29	2.46	28	2.51	27	2.56	25	2.65	23	2.74	22	2.87	21	2.90	19.5											

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

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 B: free inlet fan sone levels.

SQBA24 Performance Data

CFM at Static Pressure												RPM Range					RPM											
.125		.250		.375		.500		.750		1.00		1.25		1.50		2.00		2.50		Motor HP					RPM			
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/2	3/4	1	1½	2	3	5	RPM	
4389		4038		3538																							567	
0.34	6.6	0.36	6.1	0.38	5.5																							616
4830		4504		4146		3413																						641
0.43	7.6	0.46	7.2	0.48	6.7	0.47	6.0																					726
5055		4737		4413		3878																						776
0.49	8.2	0.51	7.8	0.53	7.4	0.54	6.7																					805
5813		5518		5248		4947		3292																				860
0.70	10.5	0.72	10.1	0.75	9.7	0.78	9.2	0.73	8.0																		890	
6256		5972		5717		5458		4598																			921	
0.85	11.9	0.88	11.5	0.91	11.1	0.94	10.7	0.96	9.4																		952	
6513		6235		5986		5741		5049		2849																	982	
0.95	12.8	0.97	12.4	1.00	12.0	1.04	11.6	1.08	10.4	0.92	9.9															1013		
6997		6731		6492		6265		5738		4553																	1050	
1.16	14.6	1.18	14.2	1.21	13.8	1.24	13.4	1.31	12.4	1.27	11.1															1077		
7261		7000		6766		6546		6068		5203																	1104	
1.28	15.6	1.31	15.1	1.33	14.7	1.37	14.4	1.44	13.5	1.45	12.1															1131		
7533		7278		7048		6834		6390		5707																	1158	
1.42	16.6	1.44	16.1	1.47	15.7	1.51	15.4	1.58	14.6	1.62	13.3															1192		
7805		7555		7329		7120		6700		6132		4803															1217	
1.57	17.6	1.59	17.1	1.62	16.7	1.65	16.3	1.73	15.5	1.78	14.4	1.70	13.2														1243	
8067		7823		7601		7395		6993		6499		5567															1268	
1.72	18.5	1.74	18.1	1.77	17.6	1.81	17.2	1.88	16.5	1.95	15.4	1.93	14.1														1293	
8338		8099		7881		7679		7291		6848		6123		4200														1319
1.89	19.5	1.91	19.0	1.94	18.6	1.97	18.2	2.05	17.5	2.13	16.6	2.14	15.2	1.93	14.5												1344	
8661		8428		8214		8016		7642		7240		6667		5484														1319
2.10	21	2.12	20	2.15	19.7	2.18	19.3	2.27	18.6	2.35	17.9	2.39	16.7	2.31	15.4												1344	
8896		8667		8457		8261		7895		7515		7015		6124														1344
2.27	22	2.29	21	2.32	21	2.35	20	2.43	19.5	2.52	18.8	2.58	17.7	2.55	16.3												1344	
9131		8906		8699		8506		8147		7783		7337		6614														1344
2.44	23	2.46	22	2.49	22	2.52	21	2.61	20	2.69	19.7	2.77	18.8	2.77	17.4												1344	
9365		9145		8941		8750		8397		8047		7639		7034														1344
2.63	23	2.64	23	2.67	22	2.71	22	2.79	21	2.88	21	2.96	19.8	2.99	18.6												1344	
9600		9383		9182		8994		8646		8307		7929		7407														1344
2.82	24	2.84	24	2.86	23	2.90	23	2.98	22	3.07	22	3.16	21	3.21	19.7												1344	
9895		9683		9486		9301		8959		8631		8280		7833		5626												1344
3.07	26	3.09	25	3.12	24	3.15	24	3.23	23	3.33	23	3.42	22	3.49	21	3.27	19.0										1344	
10112		9903		9708		9526		9188		8867		8530		8124		6460												1344
3.27	26	3.29	26	3.31	25	3.35	25	3.43	24	3.53	23	3.62	23	3.70	22	3.61	19.8										1344	
10337		10131		9940		9760		9426		9111		8787		8413		7059												1344
3.48	27	3.50	27	3.53	26	3.56	26	3.64	25	3.74	24	3.84	24	3.93	23	3.92	21										1344	
10553		10351		10162		9984		9654		9344		9030		8680		7523												1344
3.70	28	3.71	28	3.74	27	3.77	27	3.85	26	3.95	25	4.06	25	4.15	24	4.20	22										1344	
10770		10571		10384		10208		9881		9576		9271		8939		7928												1344
3.92	29	3.94	29	3.96	28	3.99	28	4.08	27	4.17	26	4.28	26	4.38	25	4.47	23										1344	
10994		10798		10614		10440		10117		9817		9519		9203		8307		5775										1344
4.16	30	4.18	30	4.20	29	4.23	29	4.32	28	4.41	27	4.52	27	4.62	26	4.75	24	4.33	23								1344	
11210		11017		10836		10664		10344		10047		9756		9452		8643		6713										1344
4.40	31	4.42	31	4.44	30	4.47	30	4.56	29	4.65	28	4.76	28	4.87	27	5.02	25	4.77	24									1344

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

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 B:free inlet fan sone levels.

SQBA30 Performance Data

CFM at Static Pressure												RPM Range Motor HP					RPM										
.125	.250	.375	.500	.750	1.00	1.25	1.50	2.00	2.50	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	3/4	1	1½	2	3	5	7½	
5949	5416	4187																								422	
0.37	5.7	0.41	5.3	0.41	4.5																					441	
6258	5766	4959																								460	
0.42	6.2	0.46	5.9	0.49	5.0																					498	
6564	6106	5470																								528	
0.47	6.7	0.52	6.4	0.55	5.6																					548	
7173	6766	6273	5326																							569	
0.59	7.9	0.64	7.6	0.69	7.0	0.69	6.3																			613	
7649	7275	6841	6241																							634	
0.70	8.9	0.75	8.6	0.80	8.1	0.84	7.3																			659	
7964	7609	7204	6693																							679	
0.78	9.6	0.83	9.3	0.88	8.9	0.93	8.0																			700	
8295	7957	7578	7124																							719	
0.87	10.4	0.92	10.0	0.98	9.7	1.03	9.0																			758	
8984	8677	8340	7960	6644																						778	
1.08	12.3	1.14	11.8	1.19	11.5	1.25	11.0	1.29	9.2																	801	
9311	9017	8696	8341	7316																						838	
1.19	13.2	1.25	12.7	1.31	12.3	1.37	12.0	1.45	10.1																	875	
9701	9420	9116	8785	7931																						912	
1.33	14.2	1.39	13.8	1.45	13.4	1.52	13.1	1.62	11.3																	931	
10011	9740	9450	9134	8362	6174																					959	
1.45	15.1	1.52	14.6	1.58	14.3	1.64	14.0	1.76	12.4	1.67	10.9															976	
10337	10075	9796	9496	8787	7353																					1010	
1.59	16.0	1.65	15.5	1.72	15.2	1.78	14.9	1.91	13.6	1.90	11.8															1043	
10631	10378	10109	9820	9155	8061																					1077	
1.72	16.8	1.78	16.3	1.85	15.9	1.92	15.6	2.05	14.6	2.10	12.7															1077	
11233	10995	10744	10477	9881	9091	6794																				1077	
2.00	18.4	2.07	17.9	2.14	17.5	2.21	17.2	2.36	16.5	2.47	14.8	2.31	13.6													1077	
11542	11311	11068	10811	10243	9530	8015																				1077	
2.16	19.2	2.23	18.7	2.31	18.3	2.38	18.0	2.52	17.4	2.65	15.9	2.60	14.5													1077	
11896	11673	11438	11192	10652	10002	8919																				1077	
2.36	20	2.43	19.8	2.50	19.3	2.58	18.9	2.73	18.3	2.87	17.1	2.90	15.6													1077	
12466	12253	12031	11799	11298	10720	9943	8030																				1077
2.69	22	2.77	22	2.84	21	2.92	21	3.08	20	3.23	19.0	3.34	17.5	3.18	16.5											1077	
13034	12831	12621	12402	11932	11405	10763	9687																				1077
3.06	24	3.14	23	3.22	23	3.30	22	3.46	22	3.62	21	3.77	19.5	3.78	18.2												1077
13601	13408	13208	13000	12558	12071	11507	10746																				1077
3.46	26	3.54	25	3.62	24	3.70	24	3.87	23	4.05	23	4.21	22	4.31	20												1077
13893	13704	13508	13306	12876	12407	11872	11194																				1077
3.67	27	3.76	26	3.84	25	3.93	25	4.10	24	4.27	24	4.44	23	4.58	21											1077	
14321	14139	13950	13755	13343	12896	12398	11800	8614																		1077	
4.01	28	4.09	27	4.18	27	4.27	26	4.45	26	4.63	25	4.81	24	4.96	23	4.68	21									1077	
14582	14402	14217	14026	13624	13190	12710	12148	9744																		1077	
4.22	29	4.31	28	4.40	28	4.49	27	4.67	26	4.85	26	5.03	25	5.20	24	5.08	22									1077	
15102	14929	14751	14568	14184	13772	13324	12817	11173																		1077	
4.67	31	4.76	30	4.86	29	4.95	29	5.13	28	5.32	28	5.51	27	5.70	26	5.81	23									1077	
15606	15439	15268	15092	14723	14331	13908	13441	12152																		1077	
5.14	33	5.23	32	5.33	31	5.42	31	5.61	30	5.81	29	6.01	29	6.20	28	6.45	25									1077	
16125	15964	15799	15629	15276	14901	14501	14066	12970	10040																1077		
5.65	35	5.75	34	5.85	33	5.94	33	6.14	32	6.34	31	6.55	31	6.75	30	7.08	27	6.70	26							1077	

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

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 B:free inlet fan sone levels.

SQBA36 Performance Data

CFM at Static Pressure												RPM Range Motor HP					RPM		
.125	.250	.375	.500	.750	1.00	1.25	1.50	2.00	2.50	3/4	1	1½	2	3	5	7½	10		
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone		
8143		7044																331	
0.52	5.8	0.55	4.9															359	
9010		8020		6686														378	
0.65	6.9	0.69	6.1	0.72	5.7													394	
9595		8652		7571														417	
0.76	7.7	0.80	7.0	0.83	6.3													433	
10085		9173		8206		5827												450	
0.85	8.3	0.90	7.7	0.93	7.0	0.88	7.0											481	
10788		9910		9043		7850												496	
1.00	9.3	1.06	8.9	1.09	8.0	1.12	7.7											525	
11277		10417		9596		8594												540	
1.12	10.0	1.18	9.6	1.22	8.8	1.25	8.3											569	
11795		10951		10168		9285												607	
1.25	10.9	1.31	10.5	1.36	9.7	1.39	9.1											621	
12738		11916		11185		10423												649	
1.52	12.3	1.58	12.2	1.64	11.5	1.68	10.6											677	
13195		12381		11668		10944		8738										692	
1.67	13.2	1.73	13.0	1.79	12.3	1.83	11.6	1.89	10.9									718	
14077		13274		12590		11920		10293										731	
1.98	14.6	2.03	14.6	2.11	14.1	2.16	13.3	2.23	12.3									757	
14532		13736		13063		12414		10931										784	
2.15	15.4	2.20	15.4	2.28	14.9	2.34	14.2	2.41	13.1									811	
15413		14624		13970		13353		12045		9800								827	
2.51	16.7	2.56	16.8	2.64	16.5	2.71	15.9	2.79	14.6	2.83	14.4							843	
16565		15785		15149		14563		13387		11921								859	
3.05	18.5	3.08	18.6	3.17	18.4	3.25	18.0	3.36	16.7	3.44	16.1							884	
16991		16212		15581		15004		13864		12517								900	
3.27	19.2	3.30	19.3	3.38	19.2	3.47	18.7	3.58	17.6	3.66	16.7							916	
17840		17065		16442		15880		14798		13610		11844							932
3.74	21	3.75	21	3.83	21	3.93	20	4.07	19.2	4.14	18.2	4.24	18.0					948	
18687		17916		17302		16752		15713		14626		13254							964
4.25	22	4.25	22	4.32	22	4.42	22	4.59	21	4.68	19.9	4.77	19.4					980	
19143		18373		17761		17217		16197		15151		13900		11540					996
4.54	23	4.53	23	4.61	23	4.70	23	4.88	22	4.98	21	5.07	20	5.04	20			1012	
19930		19163		18556		18020		17029		16040		14931		13372					1028
5.08	24	5.06	24	5.12	25	5.22	24	5.42	23	5.54	22	5.62	22	5.74	21			1044	
20323		19558		18953		18421		17442		16476		15418		14029					1060
5.36	25	5.33	25	5.40	25	5.50	25	5.70	24	5.83	23	5.91	22	6.03	22			1076	
21109		20349		19747		19220		18263		17337		16356		15183					1092
5.96	26	5.92	27	5.97	27	6.07	27	6.29	26	6.44	25	6.54	24	6.64	24			1108	
21927		21168		20569		20048		19110		18217		17295		16259					1124
6.64	28	6.57	28	6.62	28	6.71	28	6.94	28	7.12	27	7.23	26	7.32	25			1140	
22743		21989		21391		20875		19953		19086		18211		17263		14345			1156
7.36	30	7.28	30	7.31	30	7.40	30	7.63	30	7.84	28	7.97	28	8.06	27	8.25	26	1172	
23225		22475		21877		21363		20450		19598		18744		17837		15328			1188
7.81	31	7.72	31	7.74	31	7.83	31	8.06	31	8.28	30	8.43	29	8.53	28	8.77	27	1204	
23707		22960		22365		21852		20946		20106		19273		18399		16149			1220
8.28	32	8.18	32	8.20	32	8.28	32	8.51	32	8.74	31	8.90	30	9.01	29	9.25	28	1236	
24191		23444		22852		22341		21441		20613		19797		18952		16884			1252
8.77	33	8.65	33	8.66	34	8.74	34	8.98	33	9.22	32	9.39	31	9.51	30	9.75	29	1270	

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). Power ratings (BHP) do not include transmission losses. Bearing losses are included.

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 B:free inlet fan sone levels.

SQBA44 Performance Data

CFM at Static Pressure												RPM Range					RPM										
.125		.250		.375		.500		.625		.750		1.00		1.25		1.50		2.00		Motor HP					RPM		
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1	1½	2	3	5	7½	10	RPM
10597		8532																							245		
0.58	4.8	0.61	4.2																								
11737		10036																							265		
0.72	5.7	0.76	4.9																								
13031		11523		9227																					288		
0.91	6.9	0.97	5.9	0.99	5.7																						
13813		12378		10614																					302		
1.04	7.6	1.11	6.7	1.14	6.2																						
15370		14034		12659		10299																			330		
1.34	9.1	1.42	8.4	1.46	7.5	1.49	7.4																				
16366		15074		13818		12195																			348		
1.57	10.0	1.65	9.5	1.71	8.5	1.75	8.1																				
17305		16044		14866		13510		10780																	365		
1.80	11.1	1.89	10.6	1.96	9.7	2.00	9.0	1.98	9.0																		
18079		16837		15707		14480		12716																	379		
2.01	11.9	2.10	11.7	2.18	10.7	2.22	9.8	2.27	9.6																		
19126		17907		16828		15713		14354		11332															398		
2.32	13.1	2.41	12.9	2.51	12.1	2.55	11.2	2.60	10.7	2.52	10.8																
20118		18915		17874		16832		15663		14014															416		
2.65	14.2	2.74	14.2	2.84	13.5	2.90	12.5	2.94	11.9	3.00	11.7																
21660		20476		19477		18515		17506		16327															444		
3.22	16.0	3.29	16.1	3.41	15.6	3.50	14.8	3.55	14.0	3.60	13.5																
23201		22031		21063		20155		19239		18252		15279														472	
3.86	17.8	3.93	17.9	4.05	17.6	4.16	17.0	4.23	16.2	4.28	15.5	4.39	15.2														
24410		23248		22300		21424		20558		19658		17404														494	
4.43	19.3	4.48	19.4	4.61	19.2	4.73	18.7	4.82	17.9	4.88	17.2	5.00	16.5														
25565		24408		23474		22622		21794		20951		19020														515	
5.03	21	5.06	21	5.18	21	5.32	20	5.43	19.7	5.50	18.9	5.61	17.9														
26773		25623		24701		23869		23072		22274		20546		18086												537	
5.70	22	5.72	23	5.84	23	5.98	22	6.11	22	6.20	21	6.31	19.7	6.46	19.3												
28366		27222		26311		25501		24735		23982		22420		20541												566	
6.69	24	6.68	25	6.79	25	6.94	24	7.08	24	7.20	23	7.34	22	7.48	21												
29135		27994		27088		26285		25532		24796		23293		21568		18941										580	
7.21	25	7.18	26	7.29	26	7.43	25	7.58	25	7.71	24	7.88	23	8.00	22	8.14	22										
30394		29260		28361		27571		26834		26122		24696		23145		21144										603	
8.11	27	8.06	27	8.15	27	8.30	27	8.46	27	8.61	26	8.81	25	8.93	24	9.11	23										
31491		30362		29467		28685		27960		27266		25893		24446		22724										623	
8.96	28	8.89	29	8.97	29	9.11	29	9.28	28	9.43	28	9.67	27	9.81	26	9.96	25										

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

Power ratings (BHP) do not include transmission losses. Bearing losses are included.

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 B:free inlet fan sone levels.

SQDA Direct Drive Square In-Line Fans

Applications

The SQDA units are quiet, dependable in-line centrifugal fans recommended for a wide range of general exhaust applications where low to medium ranges of air volume and pressure are specified, in both ducted and non-ducted ventilation systems. Applications include virtually all types of light manufacturing, commercial and institutional buildings such as shopping centers, hospitals, schools, hotels, office and apartment buildings, warehouses, airports, bus terminals and many others.

Designed for easy positioning and quick installation, the versatile Square In-Line can be located inside equipment rooms, in ceiling spaces or as parts of O.E.M. equipment.

The advantages of a SQDA direct-drive over a belt-drive in-line unit include lower maintenance requirements, reduced risks of lower performance levels as a result of loosened belts, and lower operating costs.

Construction

SQDA models feature a housing of durable mill galvanized outer "skin" over a rigid frame which is designed to provide an attractive finish, yet be a rigid unit to resist severe installation and handling conditions commonly encountered. Three of the four sides of the unit are removable, providing access to the internal parts for inspection and maintenance without disturbing the framework.

The overlapping deep-spun venturi minimizes air turbulence and increases efficiency. The aluminum centrifugal wheel is a non-overloading, backward-inclined type, selected for low noise levels. Backplate fins draw cool air through the motor compartment. The wheels are computer balanced on state-of-the-art equipment.

The SQDA wheel is secured to a machined aluminum hub with a line bore, which eliminates the need for bushings.

Drive Mechanism

SQDA models have all the advantages of a direct-drive assembly. There are no belts, bearings or pulleys to consume power or require maintenance.

Motors

The standard motor for most SQDA models is open construction, located out of the airstream. Totally enclosed, energy efficient, two-speed and explosion-proof motors may also be available. Motor enclosure may affect UL Listing. All motor brands are recognized and serviced nationwide.



Type SQDA ventilators are Listed by Underwriters Laboratory Inc. to US and Canadian safety standards.



American Coolair Corporation, ILG Industries Division certifies that the Type SQDA units 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.

Guide Specifications

Duct mounted square in-line fans shall be of the SQDA centrifugal type as manufactured by ILG Industries Division of American Coolair Corporation (individual models to be listed in fan schedule). Units shall bear the AMCA Certified Ratings Seal for sound and air performance. Housing and rigid frame of the fans to be galvanized steel, with wheel and venturi overlapping for efficient operation. Three sides of the unit are to be removable for access to the inside fan components and drive.

Drive construction shall be of the direct-drive design. The line bore hub shall be mounted onto the backplate of the centrifugal wheel. The centrifugal wheel shall be heavy gauge aluminum with backward-inclined, non-overloading blades and be computer balanced.

Motor shall be open construction, NEMA design B. The unit shall be equipped with a safety disconnect device. Optional variable speed control on some models allows for field adjustment and system balance.

(Backdraft damper, epoxy coating and other accessories shall be listed in the fan schedule.)

SQDA15 - SQDA18 Performance Data

CFM at Static Pressure										RPM RANGE OF SELECTED MODELS		RPM					
0.00	.125	.250	.375	.500	.750	1.00	1.25	1.50	SQDA15H10	SQDA15L17*							
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone						
1095	882													570			
0.03	4.7	0.04	2.8														
1210	1024	765												630			
0.04	5.5	0.05	3.8	0.06	2.7												
1316	1147	927												685			
0.06	6.3	0.07	4.7	0.07	3.5												
1479	1329	1157	932											770			
0.08	7.6	0.09	6.0	0.10	5.1	0.11	4.3										
1633	1496	1353	1167	951										850			
0.11	8.9	0.12	7.4	0.14	6.7	0.14	5.8	0.14	5.3								
1777	1649	1525	1370	1185										925			
0.14	10.1	0.16	8.7	0.17	8.2	0.18	7.1	0.18	6.6								
1921	1802	1690	1559	1399	1002									1000			
0.18	11.4	0.19	9.9	0.21	9.2	0.22	8.5	0.23	7.7	0.23	6.8						
2065	1954	1850	1737	1600	1275									1075			
0.22	12.7	0.24	11.3	0.26	10.4	0.27	10.0	0.28	9.0	0.29	8.0						
3314	3242	3173	3107	3043	2912	2765	2595	2403						1725			
0.91	26	0.94	25	0.97	25	1.00	24	1.03	23	1.09	24	1.14	23	1.16	22	1.18	22

CFM at Static Pressure										RPM OF SELECTED MODELS		RPM			
0.00	.125	.250	.375	.500	.750	1.00	1.25	1.50	SQDA16J8*	SQDA16L11*					
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/2 HP	1 HP		
2226	2042	1919	1794	1568										825	
0.19	6.5	0.21	6.1	0.23	5.8	0.24	5.6	0.24	5.5						
3077	2937	2812	2717	2638	2442	2108	1540							1140	
0.51	12.1	0.53	11.7	0.56	11.3	0.58	10.9	0.60	10.5	0.64	10.3	0.64	10.0	0.58	9.3

CFM at Static Pressure										RPM OF SELECTED MODELS		RPM			
0.00	.125	.250	.375	.500	.750	1.00	1.25	1.50	SQDA18J8*	SQDA18L11*					
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/2 HP	1 HP		
2905	2761	2616	2444	2240	1830									825	
0.28	8.9	0.32	8.2	0.34	7.9	0.36	7.6	0.38	7.1	0.38	6.5				
4014	3910	3806	3703	3595	3338	3042	2757							1140	
0.75	15.4	0.79	14.8	0.83	14.4	0.87	14.1	0.90	13.9	0.97	13.6	1.01	12.7	1.02	11.9

Performance certified is for Type B: free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation Type B: free inlet fan sone levels.

* - These models are not compatible with variable speed control.

AMCA Certified Ratings apply to SQDA Square In-Line constant speed fans and not variable speed fans.

Installation

Most SQBA and SQDA in-line centrifugal fans are shipped fully assembled and ready for installation. Always inspect equipment for transit damage before accepting delivery to assure a valid claim. Special handling and storage procedures are required if unit is to remain idle for a long time prior to installation.

Placement

For convenience in wiring and service, it is recommended that the fans be installed so that the motor is easily accessible. In addition, belt-driven units should be accessibly installed for maintenance and servicing of belts, bearings, and pulleys.

Mounting

SQBA and SQDA in-line centrifugal fans may be mounted in any orientation within a system of ductwork. All fans should be rigidly mounted in such a manner that the unit is adequately supported by either the ductwork or by ceiling/floor supports.

The SQBA and SQDA units are designed with slip-fit duct connectors as standard. Flexible duct connections or transition pieces may be used in mounting the fan. However, make sure that proper duct design is maintained so as not to obstruct airflow. For ease of installation, mounting flanges and round duct connectors are available. See pages 22-23.

Inspection

- **Check centrifugal wheel** for free rotation.
- **Check belt** for proper tension. (SQBA)
- **Check bearings** for proper and secure locking to drive shaft. (SQBA)
- **Check motor and fan sheave faces** for proper alignment. (SQBA)
- **Check circuit phase, voltage and wiring connection** against that shown on motor nameplate.
- **Check direction of fan rotation** for proper air flow.
- **After one week of operation, check belt** for proper tension. (SQBA)

Maintenance

Units should be checked monthly for the first two or three months and periodically thereafter. On all SQBA and SQDA units, three of the four side panels are removable for ease in cleaning and maintenance.

Cleaning and Adjustment

Units should be cleaned periodically to remove accumulated dust, dirt, and other foreign matter which may collect on the blades or other parts. Fans should be checked for eroded parts which should be replaced to avoid structural damage and possible failure.

On belt drive units, belt wear, tension, and alignment should be checked. Note that belt and/or pulley misalignment will cause excessive belt wear and premature failure. This check of the drive components should be made frequently during the first 24-48 hours of the fan's operation.

Lubrication

Proper lubrication is the most important maintenance requirement. Fan bearings on belt drive units should be lubricated annually or more frequently depending on usage and operating conditions. For best results, use a #2 consistency lithium base grease such as Shell Alvania #2 lubricant or equivalent.

Motor bearings should be lubricated according to the motor manufacturer's instructions.

Adjustment of Variable Pitch Pulley and Belt (SQBA)

Variable pitch pulley may be adjusted within catalog RPM range to alter performance. However, adjustment beyond catalog RPM range may cause motor overload and possible premature motor failure. Pulley alignment and belt tension should be adjusted if necessary. Inspection every 6 to 12 months is recommended.

WARNING



CAUTION

DO NOT INSTALL FAN WITH MOVING PARTS WITHIN 8 FEET OF FLOOR OR GRADE LEVEL WITHOUT A GUARD THAT COMPLIES WITH OSHA REGULATIONS.
DO NOT USE UNLESS ELECTRICAL WIRING COMPLIES WITH ALL APPLICABLE CODES. DO NOT WIRE WITHOUT PROVIDING FOR A POWER SOURCE DISCONNECT AT THE FAN ITSELF. DO NOT SERVICE EXCEPT BY A QUALIFIED MAINTENANCE TECHNICIAN AND ONLY AFTER DISCONNECTING THE POWER SOURCE. FAILURE TO OBSERVE THESE PRECAUTIONS CAN RESULT IN SERIOUS INJURY OR DEATH.

To convert air performance (CFM and SP) and power (BHP) to metric units, multiply CFM x .000472 to obtain cubic meters per second (m^3/s). Multiply SP x 248.36 to obtain pascals (Pa). Multiply BHP x .7457 to obtain kilowatts (kW).

Example: 3904 CFM x .000472 = 1.8427 m^3/s

0.125 SP x 24.36 = 31.05 Pa

0.886 BHP x .7457 = 0.661 kW

SQBA Specification Checklist

- General in-line units for low, medium, and high ranges of air volume and pressure in commercial, institutional, and light manufacturing buildings.
- Centrifugal design with advantages of compact, attractive appearance, quiet operation, and performance against higher static pressures.
- Variable pitch motor pulley allows for speed adjustment.
- Motor base is adjustable to provide proper belt tension and alignment.
- Galvanized steel exterior over galvanized steel frame provides a high degree of rigidity.
- Deep-spun, overlapping, one-piece venturi minimizes noise, reduces air turbulence and improves efficiency.
- Aluminum centrifugal wheel is quiet, non-overloading, backward-inclined design and is computer balanced.
- Standard open drip-proof motor is out of the airstream for protection.
- Heavy duty pillow-block bearings with cast iron housing are self-aligning and relubricable.
- AMCA Seal assures certified rating of sound and air performance.

Limited Warranty

In the sale of its products, American Coolair Corporation agrees to correct, by repairs or replacement, any defects in workmanship or material that may develop under proper and normal use during the period of one year from the date of shipment from the factory. Any product or part proving, upon American Coolair's examination, to be defective during limited warranty period will be repaired or replaced, at American Coolair's option, f.o.b. factory, without charge.

Deterioration or wear caused by chemicals, abrasive action or excessive heat shall not constitute defects.

Motors are guaranteed only to the extent of the manufacturer's warranty.

American Coolair's limited warranty does not apply to any of its products or parts that have been subject to accidental damage, misuse by the user, unauthorized alterations, improper installation or electrical wiring, or lack of proper lubrication or other service requirements as established by American Coolair.

Repairs or replacements provided under the above terms shall constitute fulfillment of all American Coolair's obligations with respect to limited warranty.

THE LIMITED WARRANTY STATED HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, STATUTORY OR IMPLIED, INCLUDING WITHOUT LIMITATION THAT OF MERCHANTABILITY AND FITNESS.

NO LIABILITY FOR REINSTALLATION COST OR FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY NATURE IS ASSUMED OR SHALL BE IMPOSED UPON AMERICAN COOLAIR.



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VANEAXIAL FANS ~ TUBEAXIAL FANS ~ PROPELLER FANS ~ POWER ROOF VENTILATORS ~ CENTRIFUGAL VENTILATORS

MEMBER OF AMCA

SQDA Specification Checklist

- General in-line units for low to medium ranges of air volume and pressure in commercial, institutional, and light manufacturing buildings.
- Centrifugal design with advantages of compact, attractive appearance, quiet operation, and performance against higher static pressures.
- Direct-drive advantages of minimal maintenance and operating costs.
- Galvanized steel exterior over galvanized steel frame provides a high degree of rigidity.
- Deep-spun, overlapping, one piece venturi minimizes noise, reduces air turbulence, and improves efficiency.
- Aluminum centrifugal wheel is quiet, non-overloading, backward-inclined design and is computer balanced.
- Standard open motor is out of the airstream for protection.
- Safety disconnect device allows power to be cut for servicing of the unit.
- Fans are factory run and tested prior to shipment to ensure dependable operation.
- AMCA Seal assures certified rating of sound and air performance.

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