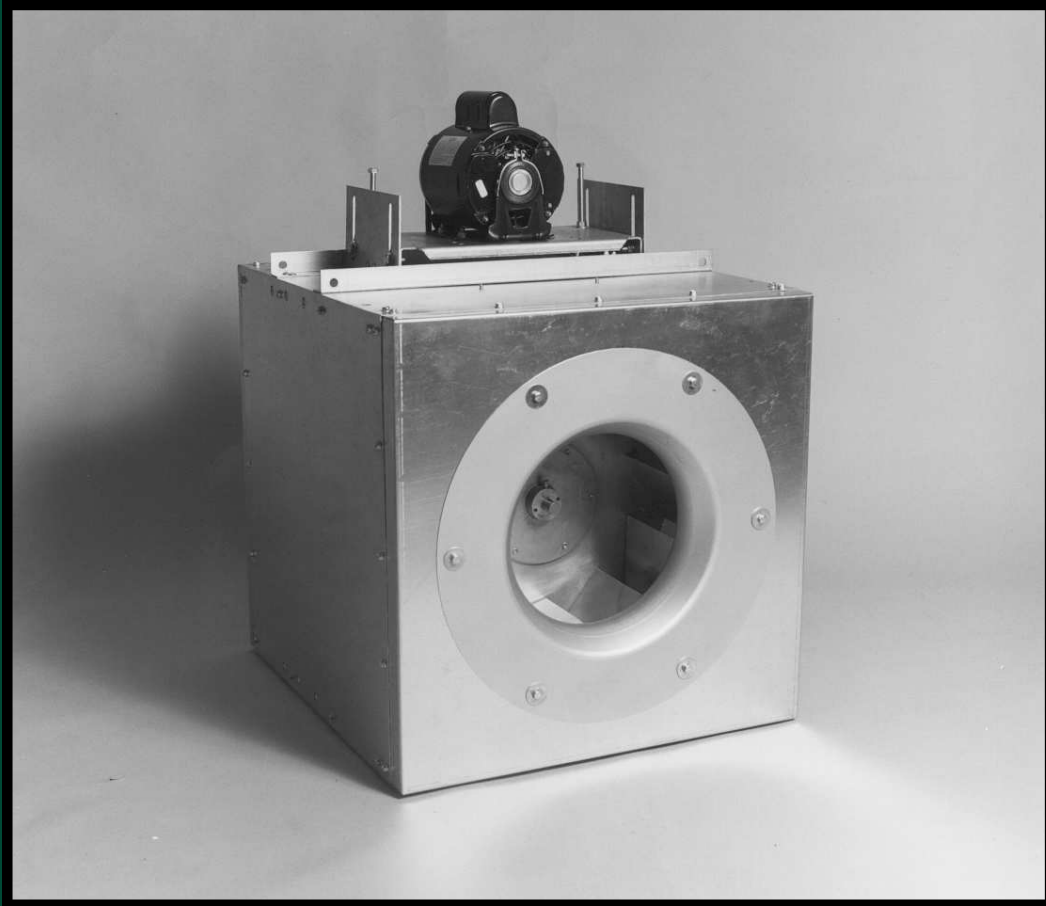




**INDUSTRIES**

**AMERICANCOOLAIR CORPORATION**



# **Square In-Line Centrifugal Fans**

**TYPESQBA - BELTDRIVE  
TYPESQDA - DIRECTDRIVE**

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## BELT DRIVE



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

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## DIRECT DRIVE



**SQDA**  
*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.

## SQBA

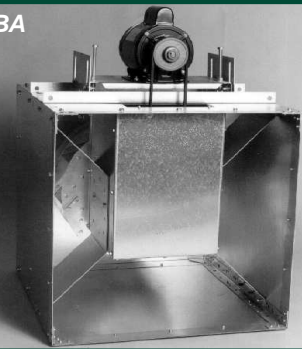
**Safety disconnect switch** is an available option.

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

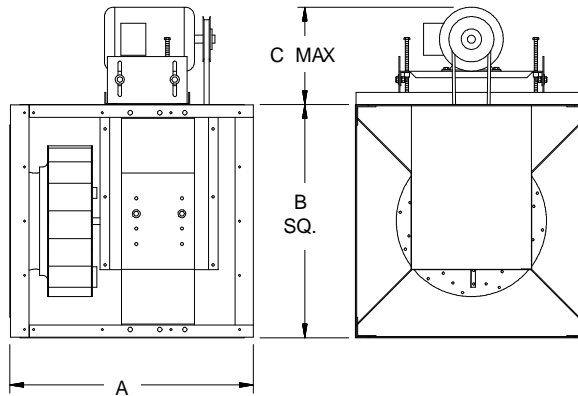
**Heavy duty pillow-block ball bearings with cast iron housing** are self-aligning and relubricable.

**Adjustable motor base** facilitates maintenance of belt tension.

SQBA



## SQBA Dimensions



SIZE	A	B	C
06-10	17	14	10 <sup>3</sup> / <sub>4</sub>
12	25 <sup>3</sup> / <sub>4</sub>	18	16 <sup>5</sup> / <sub>8</sub>
13	26 <sup>3</sup> / <sub>8</sub>	20	16 <sup>5</sup> / <sub>8</sub>
15	27 <sup>7</sup> / <sub>8</sub>	23	16 <sup>5</sup> / <sub>8</sub>
16	27 <sup>3</sup> / <sub>8</sub>	25 <sup>1</sup> / <sub>2</sub>	16 <sup>5</sup> / <sub>8</sub>
18	27 <sup>1</sup> / <sub>4</sub>	28 <sup>1</sup> / <sub>2</sub>	16 <sup>5</sup> / <sub>8</sub>
20	28 <sup>3</sup> / <sub>4</sub>	30 <sup>1</sup> / <sub>2</sub>	16 <sup>5</sup> / <sub>8</sub>
24	36 <sup>5</sup> / <sub>8</sub>	36 <sup>1</sup> / <sub>2</sub>	16 <sup>3</sup> / <sub>4</sub>
30	39 <sup>1</sup> / <sub>4</sub>	45 <sup>1</sup> / <sub>2</sub>	17 <sup>5</sup> / <sub>8</sub>
36	42 <sup>5</sup> / <sub>8</sub>	56	17 <sup>5</sup> / <sub>8</sub>
44	46 <sup>7</sup> / <sub>8</sub>	68	17 <sup>5</sup> / <sub>8</sub>

Dimensions in inches

## SQDA

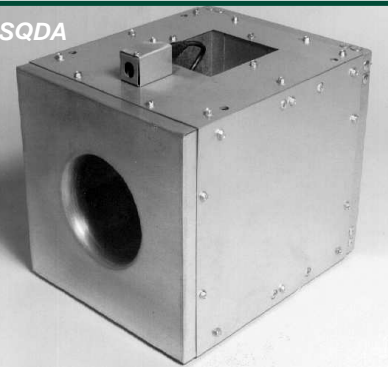
**Disconnect device** with factory mounted and wired junction box is standard.

**Direct-drive assembly** reduces maintenance and operating costs.

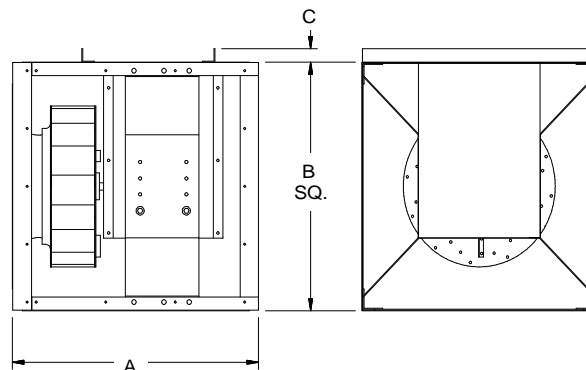
**Variable speed control** is available on some models.

**Drive compartment** isolates motor from airstream.

SQDA



## SQDA Dimensions



SIZE	A	B	C
06-10	17	14	--
12	25 <sup>3</sup> / <sub>4</sub>	18	1 <sup>3</sup> / <sub>8</sub>
13	26 <sup>3</sup> / <sub>8</sub>	20	1 <sup>3</sup> / <sub>8</sub>
15	27 <sup>7</sup> / <sub>8</sub>	23	1 <sup>3</sup> / <sub>8</sub>
16	27 <sup>3</sup> / <sub>8</sub>	25 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>8</sub>
18	27 <sup>1</sup> / <sub>4</sub>	28 <sup>1</sup> / <sub>2</sub>	1 <sup>3</sup> / <sub>8</sub>

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.



American Coolair Corporation 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

<b>SQBA06</b>																		<b>CFM at Static Pressure</b>			RPM Range			RPM
0.00		.125		.250		.375		.500		.625		.750		1.00		1.25		1.50		Motor HP				
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/4 D1	1/4 D2	1/4 D3		
267		203		113																			986	
0.02	3.3	0.02	2.6	0.02	2.1																		1085	
294		237		168																			1171	
0.02	4.0	0.02	3.4	0.02	3.0																		1294	
317		267		206		115																	1417	
0.03	4.8	0.03	4.3	0.03	3.8	0.02	3.4																1479	
351		309		252		187																	1602	
0.03	5.9	0.03	5.5	0.03	5.1	0.03	4.7																1787	
384		349		294		246		173															1848	
0.04	6.9	0.05	6.4	0.05	6.1	0.05	5.7	0.05	5.4														1971	
401		369		316		270		208															2095	
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																
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														
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														
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												
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											

<b>SQBA08</b>																		<b>CFM at Static Pressure</b>			RPM Range			RPM
0.00		.125		.250		.375		.500		.625		.750		1.00		1.25		1.50		Motor HP				
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/4 D1	1/4 D2	1/4 D3		
369		316		223																			986	
0.02	3.4	0.02	3.0	0.02	2.8																		1085	
406		359		293																			1171	
0.02	4.2	0.02	3.9	0.02	3.6																		1294	
439		395		344		238																	1417	
0.03	5.1	0.03	4.9	0.03	4.5	0.03	4.2																1479	
485		446		404		337																	1602	
0.04	6.2	0.04	6.1	0.04	5.7	0.04	5.5																1787	
531		495		457		412		334															1848	
0.05	7.2	0.05	7.1	0.05	6.8	0.05	6.5	0.05	6.3														1971	
554		520		484		445		379		267													2095	
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														
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												
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										
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										
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							

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	BHP	Sone	BHP	Sone	BHP	Sone				
452		376		312																				986	
0.02	3.7	0.02	3.6	0.02	3.2																			1035	
475		403		351																				1085	
0.02	4.1	0.02	4.0	0.03	3.6																			1134	
497		431		378																				1171	
0.02	4.5	0.03	4.4	0.03	4.1																			1232	
520		458		402																				1294	
0.03	4.9	0.03	4.8	0.03	4.6																			1355	
537		478		419		303																		1417	
0.03	5.2	0.03	5.2	0.04	5.0	0.03	4.5																	1479	
565		511		449		407																		1540	
0.03	5.9	0.04	5.9	0.04	5.6	0.04	5.1																	1602	
593		542		480		445																		1663	
0.04	6.4	0.04	6.4	0.05	6.2	0.05	5.8																	1725	
621		573		511		475		355																1787	
0.04	6.9	0.05	6.9	0.05	6.9	0.06	6.5	0.05	6.2															1848	
650		604		544		505		465																1910	
0.05	7.6	0.05	7.6	0.06	7.6	0.06	7.3	0.07	6.9															1971	
678		635		578		536		505																2033	
0.06	8.2	0.06	8.2	0.07	8.2	0.07	8.0	0.08	7.7															2095	
706		664		612		566		537		446														2156	
0.06	8.8	0.07	8.9	0.08	8.9	0.08	8.9	0.09	8.4	0.08	8.2													2218	
735		695		647		597		567		534														2280	
0.07	9.6	0.08	9.6	0.08	9.6	0.09	9.7	0.09	9.3	0.10	9.0													2341	
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												
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												
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												
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												
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										
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										
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										
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										
989		959		929		896		853		815		789		748		586									
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	0.22	14.5								
1017		989		959		928		888		848		820		779		715									
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	0.26	15.3								
1045		1018		989		959		923		881		851		809		764		500							
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	0.28	16.1	0.23	15.8						
1073		1047		1019		990		956		915		882		838		800		604							
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	0.30	17.0	0.28	16.7						

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.





# SQBA15 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	1/3	1/2	3/4	1	1½	2	
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								1986
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								2034
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	Sone	BHP	Sone							
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						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	BHP	Sone	1/2	3/4	1	1½	2	3	
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		3549										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	2.93	21									

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		1/2	3/4	1	1½	2		3	5
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone								
4389		4038		3538																							567
0.34	6.6	0.36	6.1	0.38	5.5																						
4830		4504		4146		3413																					616
0.43	7.6	0.46	7.2	0.48	6.7	0.47	6.0																				
5055		4737		4413		3878																					641
0.49	8.2	0.51	7.8	0.53	7.4	0.54	6.7																				
5813		5518		5248		4947		3292																			726
0.70	10.5	0.72	10.1	0.75	9.7	0.78	9.2	0.73	8.0																		
6256		5972		5717		5458		4598																			776
0.85	11.9	0.88	11.5	0.91	11.1	0.94	10.7	0.96	9.4																		
6513		6235		5986		5741		5049		2849																	805
0.95	12.8	0.97	12.4	1.00	12.0	1.04	11.6	1.08	10.4	0.92	9.9																
6997		6731		6492		6265		5738		4553																	860
1.16	14.6	1.18	14.2	1.21	13.8	1.24	13.4	1.31	12.4	1.27	11.1																
7261		7000		6766		6546		6068		5203																	890
1.28	15.6	1.31	15.1	1.33	14.7	1.37	14.4	1.44	13.5	1.45	12.1																
7533		7278		7048		6834		6390		5707																	921
1.42	16.6	1.44	16.1	1.47	15.7	1.51	15.4	1.58	14.6	1.62	13.3																
7805		7555		7329		7120		6700		6132		4803															952
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														
8067		7823		7601		7395		6993		6499		5567															982
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														
8338		8099		7881		7679		7291		6848		6123		4200													1013
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												
8661		8428		8214		8016		7642		7240		6667		5484													1050
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												
8896		8667		8457		8261		7895		7515		7015		6124													1077
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												
9131		8906		8699		8506		8147		7783		7337		6614													1104
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												
9365		9145		8941		8750		8397		8047		7639		7034													1131
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												
9600		9383		9182		8994		8646		8307		7929		7407													1158
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												
9895		9683		9486		9301		8959		8631		8280		7833		5626											1192
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										
10112		9903		9708		9526		9188		8867		8530		8124		6460											1217
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										
10337		10131		9940		9760		9426		9111		8787		8413		7059											1243
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										
10553		10351		10162		9984		9654		9344		9030		8680		7523											1268
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										
10770		10571		10384		10208		9881		9576		9271		8939		7928											1293
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										
10994		10798		10614		10440		10117		9817		9519		9203		8307		5775									1319
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								
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								

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		3/4	1	1½	2	3	5	7½		
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone							
5949		5416		4187																								
0.37	5.7	0.41	5.3	0.41	4.5																						422	
6258		5766		4959																								441
0.42	6.2	0.46	5.9	0.49	5.0																						460	
6564		6106		5470																								498
0.47	6.7	0.52	6.4	0.55	5.6																						528	
7173		6766		6273		5326																						548
0.59	7.9	0.64	7.6	0.69	7.0	0.69	6.3																				569	
7649		7275		6841		6241																						613
0.70	8.9	0.75	8.6	0.80	8.1	0.84	7.3																				634	
7964		7609		7204		6693																						659
0.78	9.6	0.83	9.3	0.88	8.9	0.93	8.0																				679	
8295		7957		7578		7124																						700
0.87	10.4	0.92	10.0	0.98	9.7	1.03	9.0																				719	
8984		8677		8340		7960		6644																				758
1.08	12.3	1.14	11.8	1.19	11.5	1.25	11.0	1.29	9.2																		778	
9311		9017		8696		8341		7316																				801
1.19	13.2	1.25	12.7	1.31	12.3	1.37	12.0	1.45	10.1																		838	
9701		9420		9116		8785		7931																				875
1.33	14.2	1.39	13.8	1.45	13.4	1.52	13.1	1.62	11.3																		912	
10011		9740		9450		9134		8362		6174																		931
1.45	15.1	1.52	14.6	1.58	14.3	1.64	14.0	1.76	12.4	1.67	10.9																959	
10337		10075		9796		9496		8787		7353																		976
1.59	16.0	1.65	15.5	1.72	15.2	1.78	14.9	1.91	13.6	1.90	11.8																1010	
10631		10378		10109		9820		9155		8061																		1043
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																
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															
11542		11311		11068		10811		10243		9530		8015																
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															
11896		11673		11438		11192		10652		10002		8919																
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															
12466		12253		12031		11799		11298		10720		9943		8030														
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													
13034		12831		12621		12402		11932		11405		10763		9687														
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													
13601		13408		13208		13000		12558		12071		11507		10746														
3.46	26	3.54	25	3.62	24	3.70	24	3.87	23	4.05	23	4.21	22	4.31	20													
13893		13704		13508		13306		12876		12407		11872		11194														
3.67	27	3.76	26	3.84	25	3.93	25	4.10	24	4.27	24	4.44	23	4.58	21													
14321		14139		13950		13755		13343		12896		12398		11800		8614												
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											
14582		14402		14217		14026		13624		13190		12710		12148		9744												
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											
15102		14929		14751		14568		14184		13772		13324		12817		11173												
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											
15606		15439		15268		15092		14723		14331		13908		13441		12152												
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											
16125		15964		15799		15629		15276		14901		14501		14066		12970		10040										
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									

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

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								
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		
10597		8532																								245		
0.58	4.8	0.61	4.2																								265	
11737		10036																									288	
0.72	5.7	0.76	4.9																								302	
13031		11523		9227																							330	
0.91	6.9	0.97	5.9	0.99	5.7																						348	
13813		12378		10614																							365	
1.04	7.6	1.11	6.7	1.14	6.2																						379	
15370		14034		12659		10299																					398	
1.34	9.1	1.42	8.4	1.46	7.5	1.49	7.4																				416	
16366		15074		13818		12195																					444	
1.57	10.0	1.65	9.5	1.71	8.5	1.75	8.1																				472	
17305		16044		14866		13510		10780																			494	
1.80	11.1	1.89	10.6	1.96	9.7	2.00	9.0	1.98	9.0																		515	
18079		16837		15707		14480		12716																			537	
2.01	11.9	2.10	11.7	2.18	10.7	2.22	9.8	2.27	9.6																		566	
19126		17907		16828		15713		14354		11332																	580	
2.32	13.1	2.41	12.9	2.51	12.1	2.55	11.2	2.60	10.7	2.52	10.8																603	
20118		18915		17874		16832		15663		14014																		623
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																		
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																
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																
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																
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														
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														
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												
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												
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												
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.



American Coolair Corporation 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.)

# SQDA06 - SQDA10 Performance Data

SQDA06 CFM at Static Pressure																RPM RANGE OF SELECTED MODELS		RPM			
0.00		.125		.250		.375		.500		.625		.750		1.00		1.25			SQDA06A11	SQDA06E16	
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/25 HP	1/10 HP
149																					
0.01	0.5																				550
210	122																				
0.01	1.7	0.01	1.0																		775
258	190																				
0.01	3.0	0.01	2.3																		950
298	242	175																			
0.02	4.2	0.02	3.6	0.02	3.1																1100
339	294	236		163																	
0.03	5.6	0.03	5.1	0.03	4.7	0.03	4.3														1250
393	360	306		259		192															
0.05	7.2	0.05	6.8	0.05	6.4	0.05	6.0	0.05	5.7												1450
447	421	375		331		289															
0.07	9.0	0.07	8.7	0.07	8.4	0.07	7.9	0.07	7.6												1650

SQDA08 CFM at Static Pressure																RPM RANGE OF SELECTED MODELS		RPM			
0.00		.125		.250		.375		.500		.625		.750		1.00		1.25			SQDA08A11	SQDA08E16	
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/25 HP	1/10 HP
204																					
0.01	0.5																				550
287	210																				
0.01	1.7	0.01	1.4																		775
352	297	192																			
0.01	3.1	0.02	2.7	0.02	2.5																950
408	361	299																			
0.02	4.3	0.02	4.0	0.03	3.8																1100
463	423	379		308																	
0.03	5.9	0.03	5.7	0.04	5.3	0.04	5.1														1250
537	503	466		425		359		220													
0.05	7.5	0.05	7.4	0.05	7.1	0.06	6.8	0.06	6.7	0.05	6.5										1450
593	561	529		495		449		388													
0.07	9.0	0.07	8.8	0.07	8.5	0.07	8.3	0.08	8.2	0.08	8.0										1600

SQDA10 CFM at Static Pressure																RPM RANGE OF SELECTED MODELS		RPM			
0.00		.125		.250		.375		.500		.625		.750		1.00		1.25			SQDA10A11	SQDA10E15	
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/25 HP	1/10 HP
250																					
0.01	0.5																				550
375	292																				
0.01	2.4	0.01	2.3																		825
443	366	281																			
0.02	3.6	0.02	3.5	0.02	3.1																975
500	435	381																			
0.02	4.6	0.03	4.5	0.03	4.2																1100
568	515	453		414																	
0.03	6.1	0.04	6.1	0.04	5.8	0.05	5.3														1250
636	590	529		492		443															
0.05	7.4	0.05	7.4	0.06	7.4	0.06	7.1	0.07	6.7												1400
704	663	612		564		536		466													
0.07	9.0	0.07	9.0	0.08	9.0	0.08	9.0	0.09	8.6	0.09	8.4										1550

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

# SQDA12 - SQDA13 Performance Data

<b>SQDA12</b>																<b>CFM at Static Pressure</b>				<b>RPM RANGE OF SELECTED MODELS</b>		<b>RPM</b>
<b>0.00</b>		<b>.125</b>		<b>.250</b>		<b>.375</b>		<b>.500</b>		<b>.750</b>		<b>1.00</b>		<b>1.25</b>		<b>1.50</b>		<b>SQDA12E10</b>	<b>SQDA12J17*</b>			
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/8 HP	1/2 HP			
569		379																		570		
0.01	1.6	0.02	1.2																			
628		465																		630		
0.02	2.1	0.02	1.7																			
683		536		337																685		
0.02	2.7	0.03	2.3	0.03	2.0																	
768		638		480																770		
0.03	3.5	0.04	3.1	0.04	2.9																	
848		733		601		435														850		
0.04	4.4	0.05	3.9	0.05	3.7	0.05	3.4															
923		819		703		559														925		
0.05	5.3	0.06	4.7	0.07	4.6	0.07	4.3															
998		901		796		676		536												1000		
0.07	6.1	0.08	5.6	0.09	5.4	0.09	5.2	0.09	4.8													
1022		928		826		713		578												1025		
0.07	6.3	0.09	5.9	0.09	5.7	0.10	5.5	0.09	5.2													
1721		1656		1603		1553		1494		1370		1238		1078		916				1725		
0.36	15.9	0.38	15.6	0.39	15.2	0.41	14.7	0.43	14.5	0.45	14.7	0.46	14.5	0.46	14.0	0.45	13.1					

<b>SQDA13</b>																<b>CFM at Static Pressure</b>				<b>RPM RANGE OF SELECTED MODELS</b>		<b>RPM</b>
<b>0.00</b>		<b>.125</b>		<b>.250</b>		<b>.375</b>		<b>.500</b>		<b>.750</b>		<b>1.00</b>		<b>1.25</b>		<b>1.50</b>		<b>SQDA13F11</b>	<b>SQDA13K17*</b>			
BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/5 HP	3/4 HP			
807		609																		570		
0.02	2.8	0.03	1.5																			
892		719																		630		
0.03	3.4	0.03	2.2																			
970		814		604																685		
0.04	4.1	0.04	3.0	0.05	2.4																	
1091		954		791																770		
0.05	5.0	0.06	4.0	0.07	3.4																	
1204		1082		943		766														850		
0.07	6.0	0.08	5.0	0.09	4.4	0.09	4.0															
1310		1199		1076		932		750												925		
0.09	6.9	0.10	6.0	0.11	5.4	0.11	5.0	0.11	4.7													
1417		1314		1203		1079		928												1000		
0.11	7.8	0.12	7.0	0.13	6.4	0.14	6.1	0.14	5.8													
1516		1420		1318		1207		1080												1070		
0.14	8.7	0.15	8.0	0.16	7.4	0.17	7.1	0.18	6.8													
1594		1503		1407		1304		1189		899										1125		
0.16	9.6	0.17	8.8	0.19	8.3	0.20	7.9	0.20	7.7	0.21	7.2											
2479		2422		2363		2303		2242		2114		1976		1825		1648				1750		
0.60	18.9	0.62	19.1	0.64	18.5	0.66	18.0	0.68	17.6	0.72	17.2	0.75	16.9	0.77	16.7	0.78	16.4					

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 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.

# SQDA15 - SQDA18 Performance Data

SQDA15 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	BHP	Sone	BHP	Sone	BHP	Sone	BHP	Sone	1/3 HP	1 HP
1095		882																		570	
0.03	4.7	0.04	2.8																	630	
1210		1024		765																685	
0.04	5.5	0.05	3.8	0.06	2.7															770	
1316		1147		927																850	
0.06	6.3	0.07	4.7	0.07	3.5															925	
1479		1329		1157		932														1000	
0.08	7.6	0.09	6.0	0.10	5.1	0.11	4.3													1075	
1633		1496		1353		1167		951												1725	
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													
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											
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											
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					
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				

SQDA16 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	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											1140	
3077		2937		2812		2717		2638		2442		2108		1540							
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						

SQDA18 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	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									1140	
4014		3910		3806		3703		3595		3338		3042		2757							
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)

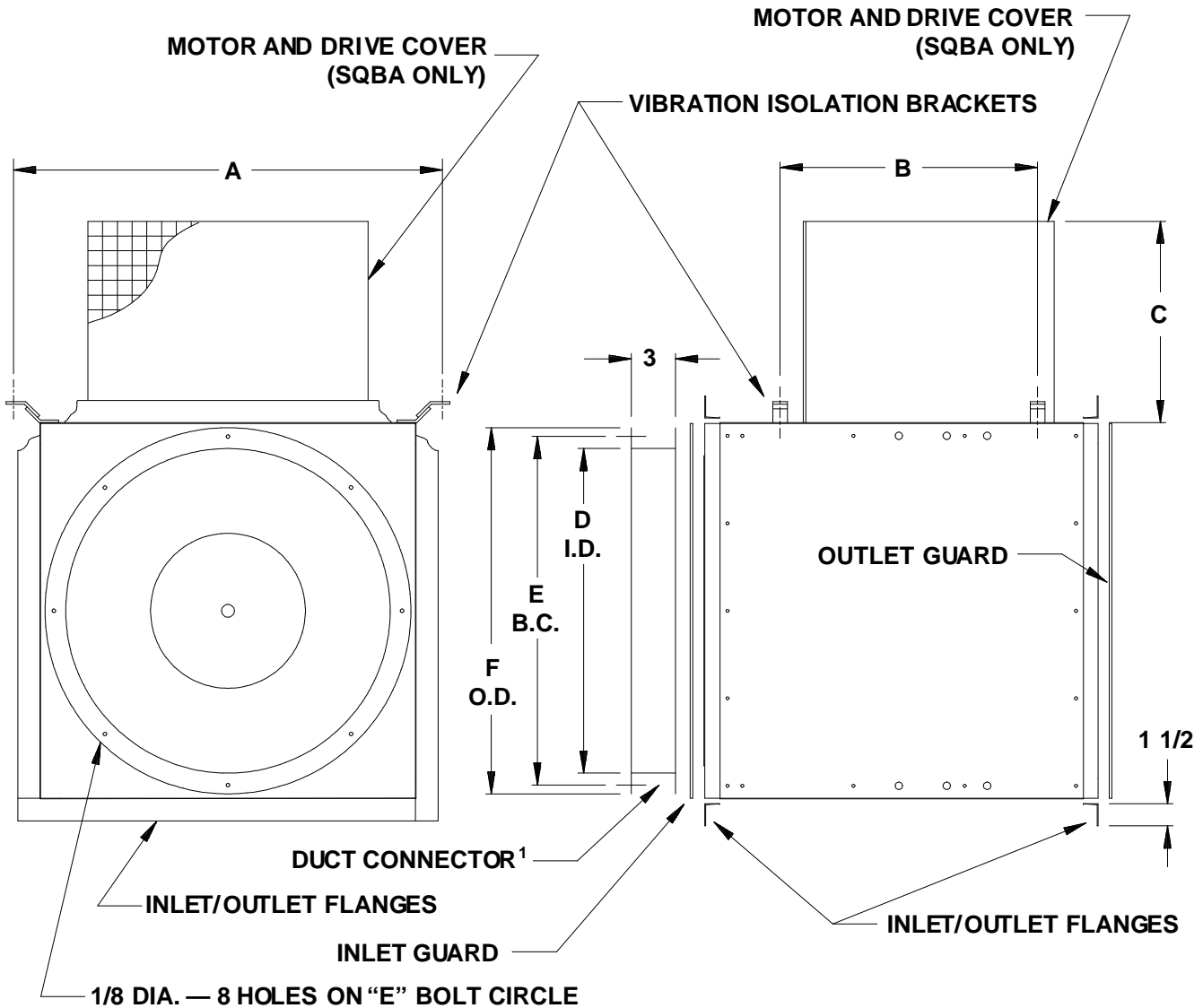
Variable pitch pulley may be adjusted within catalog RPM range to alter performance. However, adjustment beyond catalog RPM range may cause motor overload and possible premature motor failure. Pulley alignment and belt tension should be adjusted if necessary. Inspection every 6 to 12 months is recommended.

<b>WARNING</b>	<b>CAUTION</b>
	<b>DO NOT</b> INSTALL FAN WITH MOVING PARTS WITHIN 8 FEET OF FLOOR OR GRADE LEVEL WITHOUT A GUARD THAT COMPLIES WITH OSHA REGULATIONS. <b>DO NOT</b> USE UNLESS ELECTRICAL WIRING COMPLIES WITH ALL APPLICABLE CODES. <b>DO NOT</b> WIRE WITHOUT PROVIDING FOR A POWER SOURCE DISCONNECT AT THE FAN ITSELF. <b>DO NOT</b> 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<sup>3</sup>/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<sup>3</sup>/s  
0.125 SP x 24.36 = 31.05 Pa  
0.886 BHP x .7457 = 0.661 kW

# SQBA and SQDA Accessory Details



Unit	A	B	C <sup>2</sup>	D <sup>1</sup>	E <sup>1</sup>	F <sup>1</sup>
SQDA06, SQDA08, SQDA10	17 5/8	10	--	--	--	--
SQBA06, SQBA08, SQBA10	17 5/8	10	11 3/4	--	--	--
SQBA12, SQDA12	21 9/16	17 13/16	17 3/4	--	--	--
SQBA13, SQDA13	23 9/16	17 7/16	17 3/4	--	--	--
SQBA15, SQDA15	26 9/16	18 13/16	17 3/4	18	19 5/8	20 13/16
SQBA16, SQDA16	29 1/16	17 7/16	17 3/4	22	23 5/8	24 13/16
SQBA18, SQDA18	32 1/16	18 13/16	17 3/4	22	23 5/8	24 13/16
SQBA20	34 1/16	19 3/4	17 3/4	22	23 5/8	24 13/16
SQBA24	40	26 3/4	18 3/4	26	27 5/8	28 13/16
SQBA30	49	29 7/16	18 3/4	36	37 11/16	38 7/8
SQBA36	59 1/2	32 13/16	18 3/4	36	37 11/16	38 7/8
SQBA44	71 1/2	37 1/4	18 3/4	45	46 11/16	47 7/8

1 -- The duct connector accessory is not available on unit sizes 13 and smaller.

2 -- Motor and drive cover dimensions apply to type SQBA fans only.

# SQBA and SQDA Options and Accessories

## Vibration Isolators

Vibration isolators reduce sound and vibration transmission to the fan support structure. Isolators are available in spring type for hanging installations, and rubber-in-shear type for bottom mounting.

## Inlet and Outlet Flanges

Heavy gauge galvanized steel flanges are available to simplify duct attachment.

## Special Motors

Two-speed, totally enclosed, energy efficient and explosion-proof motors for hazardous locations may be available for many models. Motor enclosure may affect UL listing.

## Backdraft Dampers

Gravity or motor operated backdraft dampers are available. They are aluminum construction and designed for duct installation.

## Safety Disconnects

Safety disconnects cut power to motor for servicing of unit. A disconnect switch is an accessory available on SQBA units, and is shipped loose for field installation. An optional wiring harness is available to connect the motor to the switch at the junction box. All SQDA units have a disconnect device with a factory mounted and wired junction box as standard.

## Protective Coatings

Fan units are not recommended for exhausting air of a corrosive nature. However, special protective coatings are available where units may be exposed to corrosive conditions. Parts requiring painting are processed through the American Coolair five-stage pretreatment system prior to the application of any coatings to insure maximum finish adhesion. These parts use a thermosetting epoxy powder paint with an average thickness of 3 mils and baked at 400° F to a smooth, hard continuous finish. Consult your ILG Industries representative for available coatings.

## Duct Connector

Round duct connector is available on some SQBA and SQDA units to accommodate round duct attachment.

## Inlet and Outlet Guards

Both inlet and outlet guards are available to prevent the entry of foreign material into the fan.

## Variable Inlet Vanes

Variable Inlet Vanes (VIV) are available for controlling air flow in an efficient manner.

## Internal Insulation

One inch thick insulation on the interior of the fan housing for both sound attenuation and prevention of condensation.

## Drive Guard

A heavy gauge steel and PVC coated wire mesh guard is available to protect the drive components on SQBA units.

## Motor and Drive Cover

Combination motor cover and drive guard made of heavy gauge galvanized steel and PVC coated wire is available to protect both the motor and drive components on SQBA units.

## Speed Controller (for selected SQDA models only)

Solid state speed controller provides capability to change performance and speed ranging from 50% to 100% of fan capacity. This permits adjustment for fine tuning and balancing the ventilation system (see performance tables).

## 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.



**AMERICAN COOLAIR CORPORATION**

## 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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