

SQAF series

CENTRIFUGAL FAN

engineering data
and specifications



CINCINNATI FAN 

Since the founding of Cincinnati Fan in 1956, the company's mission has been to provide quality products at competitive prices, backed by depend-able service.

This mission is carried out by specializing in the market for industrial air handling products up to 125 hp. But specialization does not mean the product line is small. Cincinnati Fan offers a wide variety of standard and customized products, production flexibility, and customer responsiveness.

CINCINNATI FAN PROVIDES

- ◆ Technical evaluation for correct performance conditions
- ◆ Review of air stream and ambient conditions that require special attention
- ◆ Selection of proper components to meet required design specifications
- ◆ Selection of proper accessories
- ◆ System analysis for proper fan design

Cincinnati Fan operates in a modern facility specifically designed for world class manufacturing enabling us to build standard products to order, including accessories, and ship within 5 to 10 working days.

With support like this, you can be sure your Cincinnati Fan product will be well-built and will provide maximum dependability and longevity.

Cincinnati Fan has over 170 experienced sales engineers across the US and Canada ready to serve your air handling needs.

SQAF SPECIFICATIONS

Radial bladed pressure blowers shall be Cincinnati Fan SQAF, Size _____, Class _____, Arrangement _____.

Capacity: _____ CFM, _____ Static Pressure at standard conditions.

Operating conditions: _____ °F, _____ feet altitude

Wheels shall have airfoil blades and are designed to meet specified conditions for each class. Wheels shall be dynamically balanced to assure smooth operation. Shafts shall be turned, ground and polished steel (or stainless steel). All fans shall be test run at the factory before shipping.

Housings shall be continuously welded and supported to prevent housing pulsation at all conditions. Inlet bell shall be designed for smooth air entrance into wheel for maximum efficiency.

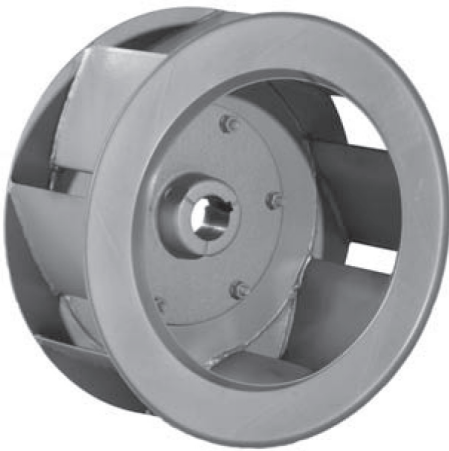
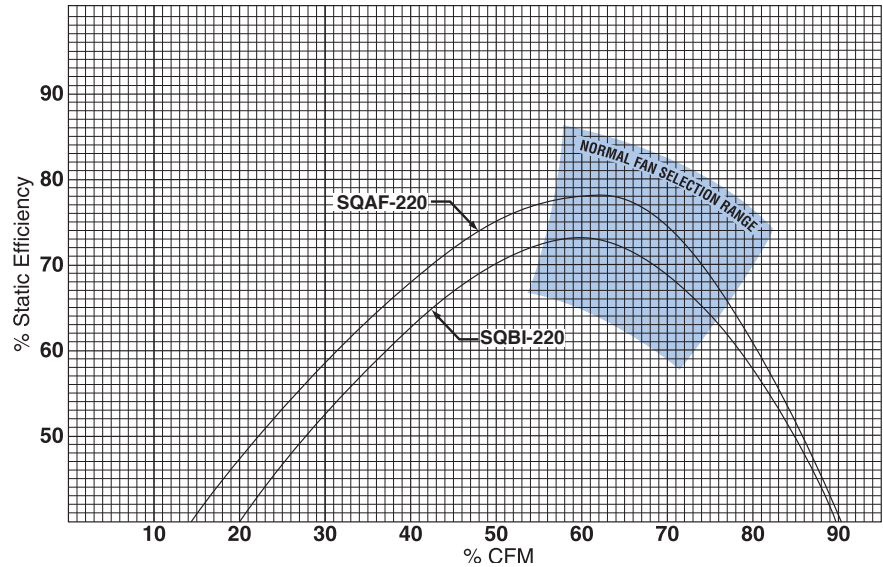
All bearings shall be grease-lubricated, heavy-duty, self-aligning ball bearing. V-belt drive shall be selected for a minimum of 1.3 times nominal horsepower.

Before painting, all steel parts shall be cleaned by detergent wash, phosphatized and painted with machine gray enamel.

The following accessories shall be included: (See page 5 for available accessories).

EFFICIENCY OF AIRFOIL WHEEL VS. BACKWARD INCLINED WHEEL

Airfoil wheels provide the highest efficiency of all centrifugal fan designs. The curve overlays at right comparing an SQAF-220 and SQBI-220 illustrates a 10% increase in static efficiency for the airfoil design versus the backward inclined design in the normal selection range. This benefit results in lower brake horse-power consumption and a reduction in sound levels of 2-6 dBA.



ADVANTAGES OF DIRECT DRIVE ARRANGEMENT 4

♦ COST

Lower initial cost plus lower maintenance cost (no v-belt drives, fan shaft or bearings to replace).

♦ RATINGS

More ratings available. All sizes offered with two wheel diameters and fan housing widths from 100% to 50% in 5% increments.

♦ COMPACT

Requires less space.

♦ MOUNTING

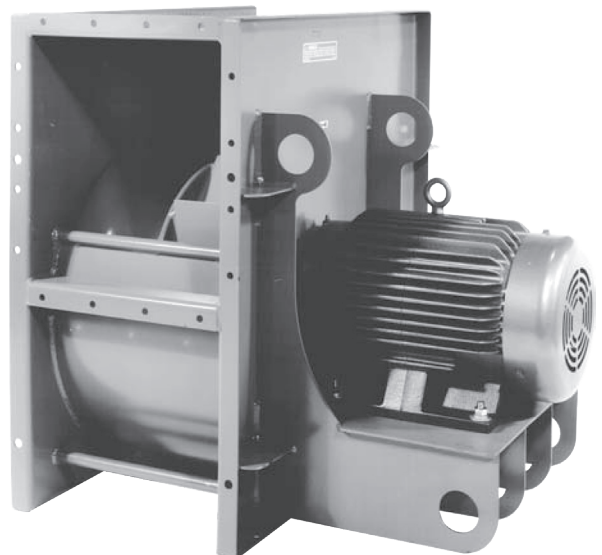
Four discharge positions and two rotations (CW or CCW) plus fans can be mounted horizontally (Maximum 600 pound motor).

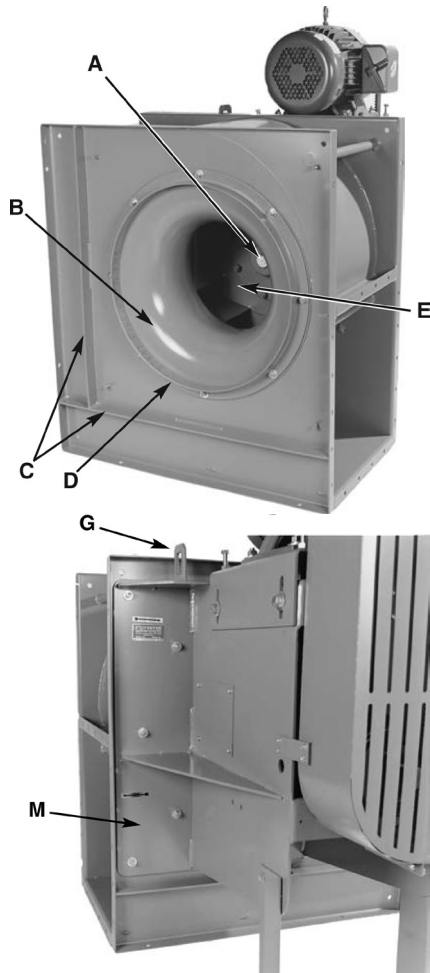
♦ LESS WEIGHT

Requires less supporting structure.

♦ CONSTRUCTION

Solidly built with continuously welded housings and mounting holes in all support flanges. All fans are mechanically run tested prior to shipment to ensure the balance of the assembled unit.



ARRANGEMENT 9 FEATURES

A - Heavy-duty, cast iron wheel hub.

B - Inlet bell designed for smooth air entrance into wheel for maximum efficiency.

C - Inlet and motor side plate braces for added rigidity.

D - Slip collar inlet (optional) for ductwork connection. Flanged inlet also available. See page 5.

E - Airfoil blades fabricated of high strength steel to assure long lasting, efficient operation.

F - Steel pipe support rods between inlet and motor side plates for extra rigidity and smooth operation.

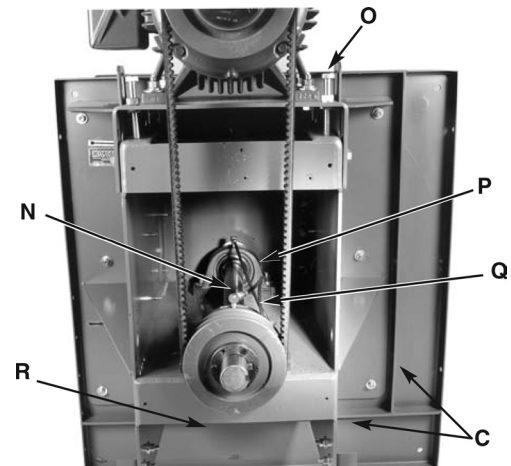
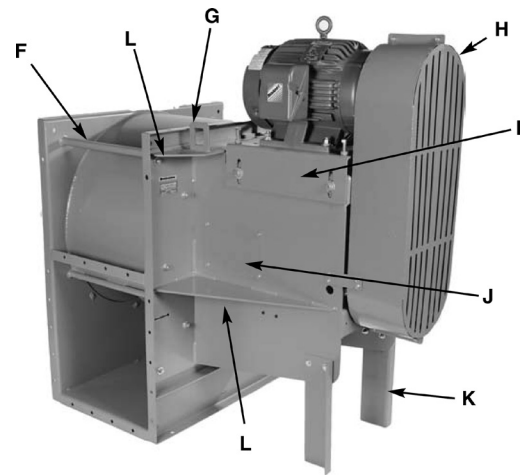
G - Lifting lugs for ease of mounting by hoist or crane in hard to reach areas.

H - Heavy-duty belt guard, painted safety yellow, Standard on arrangement 9.

I - Motor mounting base extended so fan can be built in Up Blast Discharge position with motor still on top.

J - Inboard bearing inspection opening on two sides.

K - Steel angle support legs for shipping. Remove after mounting is completed.



L - Drive side plate braces for added rigidity.

M - Drive side plate can be disconnected to rotate housing in field without removing wheel or disturbing bearings and drives. Also, entire motor/bearing support structure and wheel can be removed from installation without having to disconnect inlet and/or discharge duct work.

N - Turned, ground and polished shaft assures smooth operation. A rust preventative coating is applied prior to shipment.

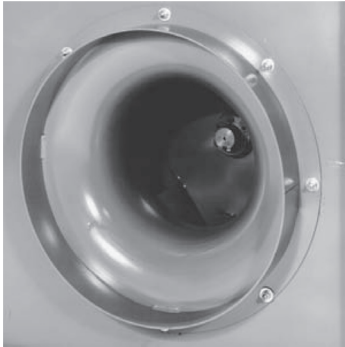
O - Four motor adjustment bolts for easy adjustment and alignment of belt tension.

P - Heavy-duty, self-aligning, relubricatable, ball bearings in cast iron pillow blocks are standard. Bearings selected for optimal performance depending on fan size and class with an L₁₀ life of 30,000 hours minimum.

Q - Bearing grease lines extend to grease fittings (not shown) outside of bearing base for easy lubrication of fan bearings when needed.

R - Bearing base is heavy steel construction with supports to maximize rigidity and assure long equipment life.

OPTIONS



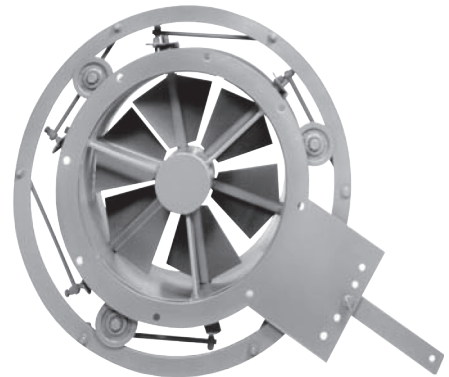
Inlet Collar

Inlet collar for slip-fit connection to duct work.



Inlet Flange

Flanged inlet for bolted connection to duct work. Flange drilled with standard hole pattern, see page 23. Undrilled flanges available at additional cost and extended delivery.



Inlet Vane Control

Inlet vane offers more efficient flow control compared to outlet damper. Manual control is standard. Automatic control is optional. Requires inlet collar and flange for mounting to fan.



Drain Connection

3/4" NPT pipe coupling with plug. Welded to lowest point on inlet side plate.



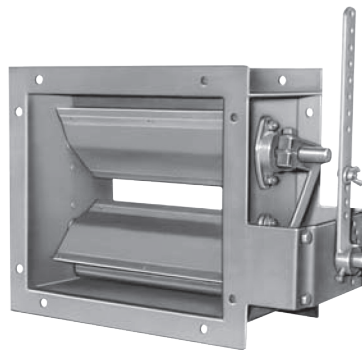
Inlet and Outlet Guard

Inlet guard is welded, formed wire. Outlet guard is expanded metal. Guards are in accordance with OSHA.



Inspection Door

Bolted or quick-release doors positioned as specified on scroll. Rubber gasket standard up to 250°F (121°C). Ceramic fiber gasket standard at temperatures above 250°F (122°C).



Outlet Damper

Outlet damper provides low cost flow control. Opposed blade manually controlled construction is standard. Also available with automatic controllers.



Shaft Seal

Teflon shaft seal good to 400°F (204°C). Ceramic fiber gasket material with steel cover plate above 400°F (205°C).

SPARK-RESISTANT CONSTRUCTION

For AMCA Type A or B spark resistant construction, please contact your local Cincinnati Fan sales representative.

Type C: Consists of aluminum inlet bell and aluminum plate on drive side of the fan. Maximum Temperature is the same as for high temperature construction below for each arrangement.

WARNING

The use of aluminum or aluminum alloys in the presence of steel which has been allowed to rust requires special consideration. Research by the U.S. Bureau of Mines and others has shown that aluminum impellers rubbing on rusty steel may cause high intensity sparking. The use of the above Standard in no way implies a guarantee of safety for any level of spark resistance. Spark-resistant construction also does not protect against ignition of explosive gases caused by catastrophic failure or from any airstream material that may be present in a system.

HIGH TEMPERATURE CONSTRUCTION

Standard Construction: Arrangement 9 suitable to 300°F (149°C)
Arrangement 4 suitable to 200°F (93°C)

301° to 400°F Construction: Standard fan with heat slinger.
Arrangement 9 only.

401° to 600°F Construction: Standard fan with heat slinger, high temperature shaft seal, gasketing and paint.
Arrangement 9 only.

601° to 750°F Construction: Standard fan with heat slinger, 316 stainless steel fan shaft, high temperature shaft seal, gasketing and paint.
Arrangement 9 only.

Temperature Range °F	Temperature Range °C	Maximum RPM Reduction Factor
Up to 175°	Up to 80°	0%
176° - 200°	81° - 93°	2%
201° - 300°	94° - 148°	4%
301° - 400°	150° - 204°	7%
401° - 500°	205° - 260°	11%
501° - 600°	281° - 315°	15%
601° - 700°	316° - 371°	20%
701° - 750°	372° - 398°	30%

TEMPERATURE - ALTITUDE ADJUSTMENT

Air Temperature °F	Altitude in Feet Above Sea Level										
	0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10000
0°	0.87	0.91	0.94	0.98	1.01	1.05	1.09	1.13	1.17	1.22	1.26
40°	0.94	0.98	1.02	1.06	1.10	1.14	1.19	1.23	1.28	1.32	1.36
70°	1.00	1.04	1.08	1.12	1.16	1.20	1.25	1.30	1.35	1.40	1.45
80°	1.02	1.06	1.10	1.14	1.19	1.23	1.28	1.33	1.38	1.43	1.48
100°	1.06	1.10	1.14	1.19	1.23	1.28	1.33	1.38	1.43	1.48	1.54
120°	1.09	1.14	1.18	1.23	1.28	1.32	1.38	1.43	1.48	1.53	1.58
140°	1.13	1.18	1.22	1.27	1.32	1.37	1.42	1.48	1.54	1.58	1.65
160°	1.17	1.22	1.26	1.31	1.36	1.42	1.47	1.53	1.59	1.64	1.70
180°	1.21	1.26	1.30	1.36	1.41	1.46	1.52	1.58	1.64	1.70	1.75
200°	1.25	1.29	1.34	1.40	1.45	1.51	1.57	1.63	1.69	1.75	1.81
250°	1.34	1.39	1.45	1.50	1.56	1.62	1.68	1.74	1.82	1.88	1.94
300°	1.43	1.49	1.55	1.61	1.67	1.74	1.80	1.87	1.94	2.00	2.08
350°	1.53	1.59	1.65	1.72	1.78	1.85	1.92	2.00	2.07	2.14	2.22
400°	1.62	1.69	1.75	1.82	1.89	1.96	2.04	2.12	2.20	2.27	2.35
450°	1.72	1.79	1.86	1.93	2.00	2.08	2.16	2.24	2.33	2.41	2.50
500°	1.81	1.88	1.96	2.03	2.11	2.19	2.28	2.36	2.46	2.54	2.62
550°	1.91	1.98	2.06	2.14	2.22	2.30	2.40	2.49	2.58	2.68	2.77
600°	2.00	2.08	2.16	2.24	2.33	2.42	2.50	2.61	2.71	2.80	2.90
650°	2.10	2.18	2.26	2.35	2.44	2.54	2.63	2.74	2.84	2.94	3.04
700°	2.19	2.27	2.36	2.46	2.55	2.65	2.75	2.86	2.97	3.06	3.18
750°	2.28	2.37	2.47	2.56	2.66	2.76	2.87	2.98	3.10	3.19	3.31

Fan performance tables are developed using standard air which is 70°F, 29.92" barometric pressure and .075 lb/ft³ per cubic foot. Density changes resulting from temperature or barometric pressure variations (such as higher altitudes) must be corrected to standard conditions before selecting a fan based on standard performance data. Temperature and/or altitude conversion factors are used in making corrections to standard conditions.

EXAMPLE: Select a belt driven SQAF fan to deliver 7500 CFM at 8" SP at 200°F, and 7000' altitude.

Step 1 - From the table, conversion factor is 1.63

Step 2 - Correct static pressure is:

$$1.63 \times 8" \text{ SP} = 13.04" \text{ SP at standard conditions}$$

Step 3 - Check SQAF catalog for 7500 CFM at 13" SP. We select a belt driven SQAF-220 Class III at 2554 RPM and 21.79 bhp.

Step 4 - Correct the bhp for the lighter air:

$$21.79 \div 1.63 = 13.37 \text{ bhp}$$

A 15 hp motor will suffice at 200°F and 7000' but not at standard conditions. Special motor insulation may be required due to altitude.

Maximum Shaft and Bearing Speed for Belt Drive Fans

Maximum Wheel Speed and WR^2 (lb-ft²) for Direct Drive Fans

Fan Size	Maximum Shaft and Bearing Speed note 1				HDAF Steel Wheel note 2						SQAF Steel Wheel note 2					
					Class II		Class IIP		Class III		Class II		Class IIP		Class III	
	Class IP	Class II	Class IIP	Class III	Wheel WR^2	Maximum RPM note 3	Wheel WR^2	Maximum RPM note 3	Wheel WR^2	Maximum RPM note 3	Wheel WR^2	Maximum RPM note 3	Wheel WR^2	Maximum RPM note 3	Wheel WR^2	Maximum RPM note 3
120	4040				2.9	5000					3.7	4624				
130	3750				4.1	4600					5.0	4251				
150	3460				5.6	4130					7.2	3890				
160	3150				7.7	3900					10.0	3670				
180		2583	2850				12.9	3810					18.1	3610		
200		2380	2740	3000			17.9	3550							25.7	3410
220		2115	2380	2664			25.3	3200							39.2	2910
240		1912	2110	2409			54.7	2900							66.5	2680
270		1738	1960	2190					81.2	2550					89.6	2480
300		1568	1790	1976					117.2	2310					169.0	2180

- 1 All maximum safe shaft speeds are independent of temperature.
- 2 All wheels are steel with a cast iron hub plate. Wheels are not available in aluminum or stainless steel.
- 3 For steel wheels up to 175° F (80°C). At temperatures above 175° F (80°C), the maximum safe wheel speeds must be reduced by the Maximum RPM Reduction Factors listed on page 6.

Approximate Shipping Weight Less Motor and Options lb

Fan Size	Arrangement 4		Arrangement 9		
	All Classes	Class IP - Class II	Class IIP	Class III	
120	128	231			
130	140	253			
150	162	369			
160	190	385			
180	280	513	530		
200	330	577		684	
220	380	667		774	
240	452	806		893	
270	620	1074		1134	
300	730	1239		1418	

⚠ CAUTION All fans and blowers shown have rotating parts and pinch points. Severe personal injury can result if operated without guards. Stay away from rotating equipment unless it is disconnected from its power source.

Construction Gauges

Fan Size	Arrangement 4				Arrangement 9					Arrangement 4 - Arrangement 9			
	Class	Housing	Inlet Bell	Motor Base	Class	Housing	Inlet Bell	Motor Base	Bearing Base	Steel Wheel			
										Shroud	Blade	Back Plate	Reinforcement Plate
120	IIP	10	14	7 - 1/4"	IIP	10	14	1/4"	1/4"	12	16	7	10
130	IIP	10	14	7 - 1/4"	IIP	10	14	1/4"	1/4"	12	16	7	10
150	IIP	10	14	7 - 1/4"	IIP	10	14	1/4"	1/4"	12	16	7	10
160	IIP	10	14	7 - 1/4"	IIP	10	14	1/4"	1/4"	12	16	7	10
180	IIP	10	14	7 - 1/4"	II - IIP	10	14	1/4"	1/4"	12	16	7	10
200	III	10	14	7 - 1/4"	II - IIP - III	10	14	1/4"	1/4"	12	16	7	10
220	III	10	14	7 - 1/4"	II - IIP - III	10	14	1/4"	1/4"	12	16	7	10
240	III	10	14	7 - 1/4"	II - IIP - III	10	14	1/4"	1/4"	12	16	7	10
270	III	7	14	7 - 1/4"	II - IIP - III	7	14	1/4"	1/4"	11	16	1/4"	10
300	III	7	14	7 - 1/4"	II - IIP	7	14	1/4"	1/4"	11	16	1/4"	1/4"
300	III	7	14	7 - 1/4"	III	1/4"	14	1/4"	1/4"	11	16	1/4"	1/4"

Direct Drive Ratings Table

CFM and bhp at Static Pressure Shown – Ratings at 70°F – .075" Density – Sea Level

Model	RPM	Wheel Type	Fan Width	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP	
				CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp
SQAF-120	1750	HDAF	1/2	499†	0.15										
	1750	SOAF	1/2	488†	0.16										
	1750	HDAF	3/4	748†	0.22										
	1750	SOAF	3/4	732†	0.24										
	1750	HDAF	FULL	997†	0.29										
	1750	SOAF	FULL	975†	0.33										
	3500	HDAF	1/2	1431†	1.11	1295†	1.15	1153†	1.17	997†	1.17	808†	1.14	442†	0.97
	3500	SOAF	1/2	1374†	1.18	1253†	1.24	1122†	1.28	975†	1.31	802†	1.30	586†	1.24
	3500	HDAF	3/4	2146†	1.67	1942†	1.72	1729†	1.75	1496†	1.76	1212†	1.71	664†	1.46
	3500	SOAF	3/4	2062†	1.76	1879†	1.85	1683†	1.92	1463†	1.96	1203†	1.95	879†	1.87
SQAF-130	1750	HDAF	1/2	742†	0.24										
	1750	SOAF	1/2	716†	0.26	277	0.24								
	1750	HDAF	3/4	1113†	0.36										
	1750	SOAF	3/4	1073†	0.39	416	0.36								
	1750	HDAF	FULL	1484†	0.48										
	1750	SOAF	FULL	1431†	0.52	555	0.47								
	3500	HDAF	1/2	1947†	1.79	1798†	1.84	1645†	1.88	1484†	1.90	1308†	1.90	1099†	1.86
	3500	SOAF	1/2	1851†	1.87	1719†	1.95	1580†	2.02	1431†	2.07	1264†	2.10	1072†	2.08
	3500	HDAF	3/4	2920†	2.69	2697†	2.77	2467†	2.82	2226†	2.86	1962†	2.85	1649†	2.79
	3500	SOAF	3/4	2776†	2.80	2578†	2.92	2371	3.03	2147	3.11	1897	3.14	1608†	3.02
SQAF-150	1750	HDAF	1/2	1203†	0.36	773†	0.35								
	1750	SOAF	1/2	1099†	0.39	668†	0.41								
	1750	HDAF	3/4	1804†	0.54	1160†	0.53								
	1750	SOAF	3/4	1649†	0.59	1003†	0.61								
	1750	HDAF	FULL	2405†	0.72	1546†	0.70								
	1750	SOAF	FULL	2198†	0.79	1337†	0.81								
	3500	HDAF	1/2	2856†	2.48	2703†	2.62	2555†	2.75	2405†	2.87	2246†	2.96	2067†	3.02
	3500	SOAF	1/2	2671†	2.72	2519†	2.88	2363†	3.02	2198	3.15	2020	3.24	1822	3.30
	3500	HDAF	3/4	4284	3.73	4054	3.93	3832	4.13	3608	4.30	3368	4.44	3101	4.53
	3500	SOAF	3/4	4006	4.08	3778	4.32	3544	4.53	3297	4.72	3030	4.86	2733	4.94
SQAF-160	1750	HDAF	1/2	1670†	0.56	1292†	0.61								
	1750	SOAF	1/2	1543†	0.62	1127†	0.67	464†	0.61						
	1750	HDAF	3/4	2505†	0.84	1938†	0.91								
	1750	SOAF	3/4	2315†	0.93	1691†	1.00	696†	0.92						
	1750	HDAF	FULL	3340†	1.12	2584†	1.22								
	1750	SOAF	FULL	3086†	1.24	2254†	1.34	928†	1.22						
	3500	HDAF	1/2	3838	3.96	3666	4.14	3503	4.32	3340	4.49	3174	4.64	2998	4.76
	3500	SOAF	1/2	3598	4.36	3430	4.56	3261	4.76	3086	4.95	2903	5.11	2706	5.23
	3500	HDAF	3/4	5757	5.95	5500	6.22	5254	6.48	5011	6.74	4761	6.96	4497	7.15
	3500	SOAF	3/4	5397	6.53	5145	6.85	4891	7.15	4629	7.42	4354	7.66	4059	7.85
SQAF-180	1750	HDAF	1/2	2169†	0.74	1877†	0.84	1501	0.88						
	1750	SOAF	1/2	2563†	1.09	2248†	1.17	1908	1.22	1432†	1.18				
	1750	HDAF	3/4	3254†	1.10	2815†	1.26	2252	1.32						
	1750	SOAF	3/4	3845	1.63	3372	1.75	2862	1.83	2148	1.77				
	1750	HDAF	FULL	4339†	1.47	3753	1.67	3002	1.76						
	1750	SOAF	FULL	5127	2.17	4496	2.33	3816	2.44	2864	2.36				
	3500	HDAF	1/2	4792	5.18	4633	5.42	4483	5.66	4339	5.89	4196	6.12	4052	6.33
	3500	SOAF	1/2	5628	8.19	5454	8.35	5288	8.52	5127	8.68	4968	8.85	4811	9.02
	3500	HDAF	3/4	7189	7.77	6949	8.13	6725	8.49	6508	8.84	6294	9.17	6079	9.49
	3500	SOAF	3/4	8442	12.28	8182	12.52	7932	12.77	7690	13.03	7453	13.28	7217	13.52
SQAF-200	1750	HDAF	1/2	2919	1.13	2603	1.28	2250	1.37	1720	1.35				
	1750	SOAF	1/2	3441	1.69	3094	1.80	2741	1.89	2337	1.93				
	1750	HDAF	3/4	4378	1.70	3905	1.91	3376	2.06	2580	2.02				
	1750	SOAF	3/4	5161	2.54	4642	2.70	4112	2.83	3505	2.90				
	1750	HDAF	FULL	5837	2.27	5206	2.55	4501	2.75	3440	2.70				
	1750	SOAF	FULL	6882	3.38	6189	3.60	5483	3.78	4673	3.86				
	3500	HDAF	1/2	6345	8.13	6166	8.44	5998	8.76	5837	9.07	5680	9.37	5523	9.67
	3500	HDAF	3/4	9517	12.19	9249	12.67	8997	13.14	8756	13.61	8519	14.06	8285	14.50
	3500	HDAF	FULL	12689	16.25	12332	16.89	11997	17.52	11674	18.14	11359	18.75	11046	19.33

Performance shown is for installation AMCA type B Free inlet, ducted outlet. Performance ratings do not include the effects of appurtenances in the airstream.

Direct Drive Ratings Table

CFM and bhp at Static Pressure Shown – Ratings at 70°F – .075" Density – Sea Level

7" SP		8" SP		9" SP		10" SP		11" SP		12" SP		13" SP		14" SP		Model
CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	
																SQAF-120
297†	1.13															SQAF-120
445†	1.70															
593†	2.27															
																SQAF-130
781†	1.71															SQAF-130
842†	2.02	555†	1.90	114†	1.67											
1172†	2.57															
1263	3.02	832†	2.84	172†	2.50											
1562	3.43															
1684	4.03	1110	3.79	229	3.33											
																SQAF-150
1852†	3.02	1546†	2.89	144†	1.60											SQAF-150
1597	3.30	1337	3.26	1032	3.16	653†	3.01									
2778	4.53	2319	4.34	216	2.40											
2396	4.95	2005	4.89	1548	4.74	980	4.51									
3704	6.04	3092	5.78	288	3.20											
3194	6.61	2673	6.51	2064	6.33	1306	6.02									
																SQAF-160
2805	4.85	2584	4.88	2310	4.81	1898	4.53									SQAF-160
2492	5.31	2254	5.34	1988	5.32	1686	5.23	1341	5.10	928	4.90					
4208	7.27	3877	7.32	3465	7.21	2847	6.79									
3738	7.97	3381	8.01	2982	7.97	2529	7.85	2012	7.64	1392	7.34					
5611	9.70	5169	9.75	4620	9.62	3796	9.05									
4983	10.63	4509	10.69	3976	10.63	3372	10.46	2682	10.19	1856	9.79					
																SQAF-180
3905	6.52	3753	6.69	3592	6.84	3418	6.96	3225	7.03	3002	7.03	3724	6.91			SQAF-180
4654	9.17	4496	9.32	4335	9.46	4169	9.58	3998	9.68	3816	9.75	3622	9.78	3409	9.77	
5858	9.78	5630	10.04	5388	10.26	5127	10.44	4838	10.54	4504	10.54	4086	10.37			
6981	13.76	6744	13.98	6502	14.19	6254	14.37	5996	14.51	5725	14.62	5434	14.68	5113	14.66	
7811	13.04	7506	13.39	7184	13.69	6838	13.92	6451	14.05	6005	14.06	5449	13.82			
9309	18.35	8992	18.64	8670	18.91	8339	19.15	7995	19.35	7633	19.50	7245	19.57	6818	19.54	
																SQAF-200
5366	9.94	5206	10.21	5042	10.45	4872	10.66	4692	10.85	4501	11.00	4292	11.09	4058	11.12	SQAF-200
8049	14.92	7809	15.31	7563	15.67	7308	15.99	7039	16.27	6751	16.49	6438	16.64	6087	16.68	
10732	19.89	10412	20.41	10084	20.89	9744	21.33	9385	21.70	9002	21.99	8584	22.19	8117	22.20	

See additional ratings
at bottom of page 10

See additional ratings
at bottom of page 10

Direct Drive Ratings Table

10

CFM and bhp at Static Pressure Shown – Ratings at 70°F – .075" Density – Sea Level

Model	RPM	Wheel Type	Fan Width	1" SP		2" SP		3" SP		4" SP		5" SP		6" SP	
				CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp
SQAF-220	1150	HDAF	1/2	2448 ■	0.64	1580 ■	0.68								
	1150	SOAF	1/2	3139 ■	0.07	2523 ■	1.12								
	1150	HDAF	3/4	3672 ■	0.96	2370 ■	1.02								
	1150	SOAF	3/4	4708	1.61	3784	1.69								
	1150	HDAF	FULL	4897 ■	1.28	3160 ■	1.36								
	1150	SOAF	FULL	6277	2.15	5045	2.25								
	1750	HDAF	1/2	4226 ■	1.97	3849	2.20	3439	2.38	2917	2.46				
	1750	SOAF	1/2	5219	3.56	4885	3.74	4532	3.87	4135	3.96	3637	3.94		
	1750	HDAF	3/4	6339	2.96	5773	3.30	5158	3.57	4375	3.70				
	1750	SOAF	3/4	7828	5.34	7327	5.60	6798	5.81	6202	5.93	5456	5.91		
SQAF-240	1150	HDAF	FULL	8452	3.95	7698	4.40	6878	4.75	5833	4.93				
	1150	SOAF	FULL	10437	7.12	9769 ●	7.47	9064	7.75	8270	7.91	7275	7.88		
	1150	HDAF	1/2	3407 ●	1.00	2655 ●	1.13								
	1150	SOAF	1/2	4319 ●	1.71	3702 ●	1.82	2738 ●	1.74						
	1150	HDAF	3/4	5111 ●	1.50	3982 ●	1.69								
	1150	SOAF	3/4	6479	2.57	5553	2.73	4107	2.61						
	1150	HDAF	FULL	6814	2.00	5310	2.26								
	1150	SOAF	FULL	8638	3.43	7403	3.63	5476	3.49						
	1750	HDAF	1/2	5731 ●	3.12	5317 ●	3.44	4889 ●	3.71	4406 ●	3.91	3785 ●	3.99		
	1750	SOAF	1/2	7056	5.72	6690	5.97	6314	6.18	5911	6.34	5458	6.43	4907	6.40
SQAF-270	1750	HDAF	3/4	8597 ●	4.68	7975	5.16	7333	5.56	6609	5.87	5677	5.98		
	1750	SOAF	3/4	10584	8.58	10034	8.95	9470	9.27	8867	9.50	8187	9.64	7360	9.60
	1750	HDAF	FULL	11463	6.24	10633	6.88	9778	7.42	8812	7.82	7569	7.97		
	1750	SOAF	FULL	14112	11.44	13379	11.93	12627	12.35	11822	12.67	10916	12.85	9814	12.80
	1750	HDAF	1/2	8884	6.78	8452	7.20	8027	7.62	7581	8.00	7085	8.30	6484	8.44
	1750	SOAF	1/2	10167	9.32	9744	9.75	9316	10.15	8873	10.51	8402	10.78	7885	10.96
SQAF-300	1750	HDAF	3/4	13326	10.17	12679	10.79	12041	11.42	11372	12.00	10627	12.45	9726	12.65
	1750	SOAF	3/4	15250	13.98	14615	14.62	13974	15.23	13310	15.76	12604	16.18	11827	16.44
	1750	HDAF	FULL	17768	13.56	16905	14.39	16054	15.23	15162	16.00	14170	16.60	12969	16.87
	1750	SOAF	FULL	20334	18.63	19487	19.50	18632	20.31	17747	21.01	16805	21.57	15769	21.92
	1750	HDAF	1/2	12304	11.35	11816	11.91	11345	12.50	10868	13.06	10368	13.58	9820	13.99
	1750	SOAF	1/2	13987	15.51	13516	16.11	13046	16.68	12567	17.21	12073	17.68	11552	18.06
SQAF-240	1750	HDAF	3/4	18456	17.03	17724	17.87	17017	18.74	16302	19.59	15551	20.36	14731	20.99
	1750	SOAF	3/4	20980	23.27	20274	24.16	19569	25.02	18851	25.82	18109	26.36	17328	27.10
	1750	HDAF	FULL	24608	22.71	23633	23.83	22690	24.99	21736	26.12	20735	27.15	19641	27.99
	1750	SOAF	FULL	27973	30.02	27032	32.22	26091	33.36	25135	34.42	24146	35.36	23104	36.13

Model	RPM	Wheel Type	Fan Width	7" SP		8" SP		9" SP		10" SP		11" SP	
				CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp	CFM	bhp
SQAF-240	1750	SOAF	1/2	4112	6.11								
	1750	SOAF	3/4	6167	9.17								
	1750	SOAF	FULL	8223	12.23								
SQAF-270	1750	HDAF	1/2	5621	8.19								
	1750	SOAF	1/2	7288	10.98	6542	10.74	5385	9.91				
	1750	HDAF	3/4	8431	12.29								
	1750	SOAF	3/4	10932	16.47	9813	16.11	8077	14.87				
	1750	HDAF	FULL	11242	16.38								
	1750	SOAF	FULL	14756	21.96	13084	21.48	10769	19.83				
SQAF-300	1750	HDAF	1/2	9190	14.25	8400	14.22	7186	13.45				
	1750	SOAF	1/2	10992	18.34	10372	18.46	9658	18.37	8776	17.94	7485	16.80
	1750	HDAF	3/4	13785	21.38	12599	21.32	10780	20.17				
	1750	SOAF	3/4	16487	27.51	15558	27.69	14487	27.56	13164	26.91	11228	25.20
	1750	HDAF	FULL	18381	28.51	16799	28.43	14373	26.89				
	1750	SOAF	FULL	21983	36.68	20744	36.93	19317	36.75	17552	35.88	14970	33.60

Model	RPM	Wheel Type	Fan Width	15" SP		16" SP	
				CFM	bhp	CFM	bhp
SQAF-240	3500	SOAF	1/2	3165	9.68	2864	9.46
	3500	SOAF	3/4	4747	14.52	4297	14.16
	3500	SOAF	FULL	6329	19.36	5729	18.91
SQAF-270	3500	HDAF	1/2	3785	11.05	3440	10.80
	3500	HDAF	3/4	5677	16.57	5160	16.20
	3500	HDAF	FULL	7570	22.10	6880	21.60

Minimum Motor Frame Size Required

Symbols indicate minimum motor frame required even though the bhp is available in a smaller motor frame size

■ 182T Motor Frame Minimum

● 213T Motor Frame Minimum

Performance shown is for installation AMCA type B Free inlet, ducted outlet.

Performance ratings do not include the effects of appurtenances in the airstream.

SQAF-120**Wheel**

Diameter - 13.25"

Outlet OD

Size - 10.6875" x 12"

Area - .89 ft² ID**Inlet OD***

Size - 13.4375"

Area - .98 ft² ID

All wheels are Class IP, SQAF type

Maximum Fan Speed = 4040 RPM

Volume CFM	O.V. fpm	0" SP		½" SP		1" SP		1 ½" SP		2" SP		2 ½" SP		3" SP		3 ½" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
750	881	879	0.04	1286	0.13	1587	0.24	1838	0.37	2058	0.51	2256	0.67	2437	0.83	2604	1.00
900	1057	1055	0.06	1414	0.17	1692	0.30	1931	0.44	2143	0.59	2335	0.75	2511	0.93	2675	1.11
1050	1233	1231	0.10	1552	0.22	1810●	0.36	2034	0.51	2237	0.68	2422	0.86	2594	1.04	2754	1.24
1200	1409	1406	0.14	1698	0.28	1936	0.44	2148	0.60	2340	0.78	2518	0.97	2684	1.17	2840	1.37
1350	1585	1582	0.21	1848	0.36	2070	0.53	2269	0.71	2452	0.90	2623	1.10	2782	1.31	2934	1.53
1500	1761	1758●	0.28	2002	0.45	2210	0.63	2398	0.83	2571	1.03	2734	1.25	2888	1.47	3034	1.70
1650	1937	1934	0.38	2160	0.56	2355	0.76	2532	0.97	2697	1.18	2853	1.41	3001	1.65	3141	1.89
1800	2113	2109	0.49	2320	0.69	2503	0.90	2671	1.12	2829	1.36	2977	1.60	3119	1.85	3255	2.10
1950	2290	2285	0.62	2482	0.84	2655	1.07	2815	1.30	2965	1.55	3107	1.80	3243	2.06	3374	2.33
2100	2466	2461	0.77	2645	1.01	2810	1.25	2962	1.50	3105	1.76	3241	2.03	3372	2.31	3498●	2.59
2250	2642	2637	0.95	2810	1.20	2966	1.46	3111	1.73	3249	2.00	3379	2.28	3505●	2.57	3626	2.87
2400	2818	2813	1.15	2977	1.42	3125	1.70	3264	1.98	3395	2.27	3521	2.56	3642	2.87	3759	3.18
2550	2994	2988	1.39	3144	1.67	3285	1.96	3418●	2.26	3544	2.56	3665	2.87	3782	3.19	3895	3.51
2700	3170	3164	1.64	3312	1.95	3447●	2.25	3575	2.56	3696	2.88	3812	3.21	3925	3.54	4034	3.88
2850	3346	3340	1.93	3480●	2.25	3610	2.57	3733	2.90	3849	3.24	3962	3.58				
3000	3522	3516●	2.26	3650	2.59	3774	2.93	3892	3.27	4005	3.62						
3150	3699	3692	2.61	3820	2.96	3939	3.32										
3300	3875	3867	3.00	3990	3.37												

Minimum motor frame size is 56
regardless of bhp

Volume CFM	O.V. fpm	4" SP		4 ½" SP		5" SP		5 ½" SP		6" SP		6 ½" SP		7" SP		7 ½" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
750	881	2761	1.18	2909	1.37	3050	1.57	3184	1.78	3313	1.99	3436●	2.21	3555	2.44	3670	2.67
900	1057	2830	1.30	2976	1.50	3114	1.71	3247	1.93	3374	2.15	3496●	2.38	3614	2.62	3728	2.86
1050	1233	2905	1.44	3049	1.65	3185	1.87	3316	2.10	3441●	2.33	3562	2.57	3678	2.82	3791	3.07
1200	1409	2988	1.59	3128	1.81	3262	2.04	3390	2.28	3514	2.52	3633	2.78	3748	3.03	3859	3.30
1350	1585	3077	1.76	3214	1.99	3345	2.23	3471●	2.48	3592	2.74	3710	3.00	3823	3.27	3933	3.54
1500	1761	3173	1.94	3307	2.19	3435●	2.44	3558	2.70	3677	2.97	3792	3.24	3903	3.52	4011	3.81
1650	1937	3276	2.14	3406●	2.40	3530	2.67	3650	2.94	3767	3.22	3879	3.50	3989	3.80		
1800	2113	3385	2.37	3510●	2.64	3631	2.92	3749	3.20	3862	3.49	3972	3.79				
1950	2290	3499●	2.61	3621	2.90	3738	3.19	3852	3.48	3963	3.79						
2100	2466	3619	2.88	3737	3.18	3851	3.48	3961	3.79								
2250	2642	3743	3.18	3857	3.49	3968	3.80										
2400	2818	3872	3.50	3982	3.82												
2550	2994	4004	3.85														
2700	3170																

Maximum motor frame size
is 213T

Volume CFM	O.V. fpm	8" SP		8 ½" SP		9" SP	
		RPM	bhp	RPM	bhp	RPM	bhp
750	881	3782	2.91	3890	3.16	3995	3.41
900	1057	3838	3.11	3946	3.37		
1050	1233	3901	3.33	4007	3.6		
1200	1409	3968	3.57				

*Inlet OD if optional inlet collar is ordered

Power rating (bhp) does not include drive losses. Performance shown is for installation type B-Free inlet, Ducted Outlet. Performance ratings do not include the effects of appurtenances in the airstream.

● Check direct drive tables on pages 8 and 9. Arrangement 4 would be more compact, less expensive and require less maintenance.

See pages 7 for maximum wheel RPM and WR².

SQAF-130**Wheel**

Diameter - 14.56"

Outlet OD

Size - 11.75" x 13.25"

Area - 1.08 ft² ID**Inlet OD***

Size - 15.4375"

Area - 1.30 ft² ID**All wheels are Class IP, SQAF type**

Maximum Fan Speed = 3750 RPM

Volume CFM	O.V. fpm	0" SP		½" SP		1" SP		1 ½" SP		2" SP		2 ½" SP		3" SP		3 ½" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
900	867	795	0.04	1167	0.15	1441	0.29	1670	0.45	1871	0.62	2051	0.80	2215	1.00	2368	1.21
1100	1060	972	0.08	1296	0.21	1548	0.36	1764 ●	0.53	1956	0.72	2130	0.92	2290	1.13	2440	1.35
1300	1252	1148	0.13	1436	0.28	1667	0.45	1869	0.64	2052	0.84	2219	1.06	2374	1.28	2520	1.52
1500	1445	1325	0.19	1583	0.37	1795 ●	0.56	1985	0.76	2158	0.98	2318	1.21	2467	1.46	2608	1.71
1700	1637	1501	0.28	1736 ●	0.48	1932	0.69	2109	0.91	2273	1.15	2425	1.39	2568	1.65	2704	1.92
1900	1830	1678	0.39	1892	0.61	2075	0.84	2241	1.08	2395	1.33	2540	1.60	2678	1.88	2808	2.16
2100	2023	1855	0.53	2052	0.77	2223	1.02	2379	1.28	2525	1.55	2663	1.83	2794	2.13	2919	2.43
2300	2215	2031	0.70	2214	0.96	2374	1.22	2522	1.51	2660	1.80	2791	2.10	2917	2.41	3037	2.73
2500	2408	2208	0.90	2378	1.18	2529	1.47	2669	1.77	2800	2.08	2925	2.40	3045	2.73	3160	3.06
2700	2601	2385	1.13	2544	1.43	2686	1.74	2819	2.06	2944	2.39	3063	2.73	3178	3.08	3289	3.43
2900	2793	2561	1.40	2710	1.72	2846	2.05	2972	2.39	3091	2.74	3205	3.10	3315	3.47	3422 ●	3.84
3100	2986	2738	1.71	2878	2.05	3007	2.41	3127	2.77	3241	3.14	3351	3.51	3456 ●	3.90	3559	4.29
3300	3179	2915	2.06	3047	2.43	3170	2.80	3284	3.18	3394	3.57	3499 ●	3.97	3601	4.37	3699	4.79
3500	3371	3091	2.46	3217	2.85	3334	3.24	3444 ●	3.64	3549	4.05	3650	4.47	3747	4.90		
3700	3564	3268	2.90	3387	3.31	3499 ●	3.73	3604	4.15	3705							
3900	3757	3445 ●	3.40	3558	3.83	3665	4.27										
4100	3949	3621	3.95	3730	4.40												

Minimum motor frame size is 56
regardless of bhp

Volume CFM	O.V. fpm	4" SP		4 ½" SP		5" SP		5 ½" SP		6" SP		6 ½" SP		7" SP		7 ½" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
900	867	2511	1.42	2646	1.65	2774	1.89	2896	2.14	3013	2.40	3125	2.66	3234	2.94	3338	3.22
1100	1060	2580	1.59	2713	1.83	2839	2.08	2959	2.34	3075	2.61	3186	2.89	3293	3.18	3397	3.47
1300	1252	2657	1.77	2787	2.03	2910	2.29	3029	2.57	3143	2.85	3252	3.15	3358	3.45	3461 ●	3.75
1500	1445	2741	1.97	2868	2.25	2989	2.53	3105	2.82	3217	3.12	3325	3.42	3429 ●	3.74	3531	4.06
1700	1637	2833	2.20	2957	2.49	3075	2.79	3189	3.10	3298	3.41	3404	3.73	3507 ●	4.06	3606	4.40
1900	1830	2933	2.46	3052	2.76	3167	3.08	3278	3.40	3385	3.73	3489 ●	4.07	3590	4.41	3687	4.76
2100	2023	3040	2.74	3155	3.07	3267	3.40	3374	3.73	3479 ●	4.08	3580	4.43	3678	4.79		
2300	2215	3153	3.06	3264	3.40	3372	3.75	3477 ●	4.10	3578	4.46	3677	4.83				
2500	2408	3272	3.41	3379	3.77	3484 ●	4.13	3585	4.50	3683	4.88						
2700	2601	3396	3.80	3500 ●	4.17	3600	4.55	3699	4.94								
2900	2793	3525	4.23	3625	4.62	3722	5.02										
3100	2986	3658	4.69														

Maximum motor frame size
is 215T

Volume CFM	O.V. fpm	8" SP		8 ½" SP		9" SP	
		RPM	bhp	RPM	bhp	RPM	bhp
900	867	3440 ●	3.51	3538	3.81	3634	4.11
1100	1060	3497 ●	3.78	3595	4.09	3689	4.40
1300	1252	3560	4.07	3657	4.39		
1500	1445	3629	4.39	3724	4.73		
1700	1637	3703	4.74				

***Inlet OD if optional inlet collar is ordered**

Power rating (bhp) does not include drive losses. Performance shown is for installation type B-Free Inlet, Ducted Outlet. Performance ratings do not include the effects of appurtenances in the airstream.

● Check direct drive tables on pages 8 and 9. Arrangement 4 would be more compact, less expensive and require less maintenance.

See pages 7 for maximum wheel RPM and WR².

SQAF-150**Wheel**

Diameter - 14.56"

Outlet OD

Size - 11.75" x 13.25"

Area - 1.08 ft² ID**Inlet OD***

Size - 15.4375"

Area - 1.30 ft² ID

All wheels are Class IP, SQAF type

Maximum Fan Speed = 3460 RPM

Volume CFM	O.V. fpm	0" SP		½" SP		1" SP		1 ½" SP		2" SP		2 ½" SP		3" SP		3 ½" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
1000	782	619	0.03	990	0.15	1254	0.30	1470	0.48	1657	0.67	1823	0.89	1975	1.12	2116	1.36
1250	977	774	0.06	1094	0.20	1338	0.37	1544	0.56	1725 ●	0.77	1887	1.00	2036	1.25	2173	1.51
1500	1173	929	0.10	1211	0.26	1434	0.45	1628	0.66	1801	0.89	1958	1.14	2103	1.40	2238	1.68
1750	1368	1084	0.15	1336	0.34	1540	0.55	1721 ●	0.79	1886	1.03	2037	1.30	2178	1.58	2310	1.87
2000	1564	1239	0.23	1466	0.44	1654	0.68	1824	0.93	1980	1.20	2124	1.48	2260	1.78	2387	2.09
2250	1759	1394	0.32	1601	0.56	1776 ●	0.82	1934	1.09	2081	1.38	2219	1.68	2349	2.00	2472	2.33
2500	1955	1548	0.44	1740 ●	0.71	1902	0.99	2050	1.28	2189	1.59	2320	1.91	2444	2.25	2563	2.60
2750	2150	1703	0.59	1880	0.88	2032	1.18	2172	1.50	2303	1.83	2427	2.17	2546	2.53	2660	2.90
3000	2346	1858	0.77	2023	1.08	2166	1.41	2298	1.75	2422	2.10	2540	2.46	2654	2.84	2763	3.23
3250	2541	2013	0.98	2167	1.32	2302	1.66	2427	2.03	2545	2.40	2658	2.79	2766	3.18	2870	3.59
3500	2736	2168	1.22	2312	1.58	2440	1.96	2559	2.34	2672	2.74	2779	3.15	2883	3.57	2983	3.99
3750	2932	2323	1.50	2459	1.89	2581	2.29	2694	2.70	2801	3.12	2904	3.55	3003	3.99	3099	4.44
4000	3127	2477	1.82	2606	2.24	2722	2.66	2830	3.09	2933	3.53	3032	3.98	3127	4.45	3219	4.92
4250	3323	2632	2.19	2754	2.62	2865	3.07	2969	3.53	3067	3.99	3162	4.47	3253	4.9 5	3342	5.45
4500	3518	2787	2.59	2903	3.06	3009	3.53	3108	4.01	3203	4.50	3294	5.00	3382	5.51		
4750	3714	2942	3.05	3052	3.54	3154	4.04	3249	4.54	3340	5.05	3428 ●	5.58				
5000	3909	3097	3.56	3202	4.07	3300	4.60	3391	5.12					Minimum motor frame size is 56			
5250	4105	3252	4.12	3352	4.66	3446 ●	5.21							regardless of bhp			
5500	4300	3406	4.74														

Volume CFM	O.V. fpm	4" SP		4 ½" SP		5" SP		5 ½" SP		6" SP		6 ½" SP		7" SP		7 ½" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
1000	782	2247	1.62	2371	1.90	2489	2.18	2601	2.48	2709	2.79	2812	3.11	2912	3.44	3009	3.78
1250	977	2303	1.78	2425	2.07	2541	2.37	2651	2.68	2757	3.01	2860	3.34	2958	3.68	3053	4.03
1500	1173	2365	1.97	2485	2.27	2599	2.58	2708	2.91	2813	3.25	2914	3.59	3011	3.95	3105	4.32
1750	1368	2434	2.18	2551	2.49	2664	2.82	2771	3.16	2874	3.52	2973	3.88	3069	4.25	3162	4.63
2000	1564	2508	2.41	2624	2.74	2734	3.09	2839	3.45	2940	3.81	3038	4.19	3133	4.58	3225	4.98
2250	1759	2589	2.67	2701	3.02	2809	3.38	2912	3.76	3012	4.14	3108	4.53	3201	4.94	3291	5.35
2500	1955	2676	2.96	2785	3.33	2890	3.71	2991	4.10	3088	4.50	3182	4.91	3274	5.33	3363	5.76
2750	2150	2769	3.27	2874	3.66	2976	4.06	3074	4.47	3169	4.89	3261	5.32	3351	5.76	3438 ●	6.20
3000	2346	2868	3.62	2969	4.03	3068	4.45	3163	4.88	3256	5.32	3346	5.77	3433 ●	6.22		
3250	2541	2971	4.01	3069	4.44	3164	4.88	3257	5.33	3347	5.78	3434 ●	6.25				
3500	2736	3080	4.43	3174	4.88	3266	5.34	3355	5.81	3443 ●	6.28						
3750	2932	3193	4.90	3283	5.37	3372	5.84	3459 ●	6.33								
4000	3127	3309	5.40	3397	5.89									Maximum motor frame size			
4250	3323	3429 ●	5.95											is 215T			

Volume CFM	O.V. fpm	8" SP		9" SP		10" SP	
		RPM	bhp	RPM	bhp	RPM	bhp
1000	782	3102	4.12	3281	4.85	3451 ●	5.61
1250	977	3145	4.40	3322	5.15		
1500	1173	3196	4.70	3371	5.48		
1750	1368	3252	5.02	3425 ●	5.83		
2000	1564	3313	5.38				
2250	1759	3379	5.77				
2500	1955	3449 ●	6.20				

***Inlet OD if optional inlet collar is ordered**

Power rating (bhp) does not include drive losses. Performance shown is for installation type B-Free inlet, Ducted Outlet. Performance ratings do not include the effects of appurtenances in the airstream.

• Check direct drive tables on pages 8 and 9. Arrangement 4 would be more compact, less expensive and require less maintenance.

See pages 7 for maximum wheel RPM and WR².

SQAF-160**Wheel**

Diameter - 17.81"

Outlet OD

Size - 14.375" x 16"

Area - 1.60 ft² ID**Inlet OD***

Size - 18.5625"

Area - 1.88 ft² ID

All wheels are Class IP, SQAF type

Maximum Fan Speed = 3150 RPM

Volume CFM	O.V. fpm	0" SP		½" SP		1" SP		1 ½" SP		2" SP		2 ½" SP		3" SP		3 ½" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
1500	971	697	0.07	989	0.24	1212	0.44	1399	0.68	1564	0.93	1711 ●	1.21	1846	1.51	1972	1.82
1800	1165	836	0.11	1094	0.31	1297	0.54	1474	0.80	1632	1.08	1775 ●	1.37	1907	1.69	2030	2.02
2100	1359	975	0.18	1206	0.41	1392	0.66	1558	0.94	1708	1.24	1846	1.56	1974	1.90	2094	2.25
2400	1553	1115	0.27	1323	0.52	1495	0.81	1649	1.11	1792 ●	1.43	1923	1.77	2047	2.13	2163	2.51
2700	1748	1254	0.38	1444	0.67	1603	0.98	1748 ●	1.30	1882	1.65	2008	2.02	2126	2.40	2239	2.79
3000	1942	1393	0.52	1568	0.84	1717 ●	1.17	1852	1.53	1979	1.90	2098	2.29	2212	2.69	2320	3.11
3300	2136	1532	0.70	1695	1.04	1834	1.40	1961	1.79	2081	2.18	2195	2.60	2303	3.02	2407	3.47
3600	2330	1672	0.90	1823	1.28	1954	1.67	2074	2.08	2188	2.50	2296	2.94	2399	3.39	2499	3.86
3900	2524	1811 ●	1.15	1952	1.56	2076	1.98	2190	2.41	2298	2.86	2401	3.32	2500	3.80	2595	4.29
4200	2719	1950	1.44	2083	1.87	2200	2.32	2309	2.78	2411	3.26	2510	3.75	2604	4.25	2696	4.77
4500	2913	2090	1.77	2215	2.23	2326	2.71	2429	3.20	2528	3.71	2622	4.22	2712	4.75	2800	5.29
4800	3107	2229	2.14	2347	2.64	2453	3.15	2552	3.67	2646	4.20	2736	4.74	2823	5.30	2908	5.87
5100	3301	2368	2.57	2480	3.10	2582	3.64	2676	4.18	2766	4.74	2853	5.31	2937	5.90	3018	6.49
5400	3495	2508	3.05	2614	3.61	2711	4.18	2802	4.75	2888	5.34	2972	5.94				
5700	3690	2647	3.59	2748	4.18	2841	4.78	2929	5.38	3012	6.00						
6000	3884	2786	4.19	2883	4.81	2972	5.43							Minimum motor frame size is 56 regardless of bhp			
6300	4078	2926	4.85	3018	5.50												

Volume CFM	O.V. fpm	4" SP		4 ½" SP		5" SP		5 ½" SP		6" SP		6 ½" SP		7" SP		7 ½" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
1500	971	2089	2.15	2200	2.50	2306	2.86	2406	3.24	2503	3.63	2596	4.03	2685	4.45	2772	4.87
1800	1165	2145	2.37	2254	2.74	2358	3.12	2457	3.51	2552	3.92	2644	4.34	2732	4.77	2818	5.21
2100	1359	2207	2.62	2314	3.00	2416	3.40	2513	3.81	2607	4.24	2698	4.67	2785	5.12	2869	5.59
2400	1553	2273	2.90	2378	3.30	2478	3.72	2574	4.15	2667	4.59	2756	5.05	2842	5.52	2925	6.00
2700	1748	2346	3.20	2448	3.63	2546	4.07	2640	4.52	2730	4.98	2818	5.46	2903	5.94	2985	6.44
3000	1942	2423	3.55	2523	3.99	2618	4.45	2710	4.92	2798	5.41	2884	5.90	2968	6.41		
3300	2136	2506	3.92	2602	4.39	2695	4.87	2784	5.37	2871	5.87	2955	6.39	3037	6.92		
3600	2330	2595	4.34	2687	4.83	2777	5.34	2864	5.85	2948	6.38	3030	6.92				
3900	2524	2687	4.80	2777	5.31	2864	5.84	2948	6.38	3030	6.93						
4200	2719	2784	5.30	2871	5.84	2954	6.39	3036	6.96					Maximum motor frame size is 215T			
4500	2913	2885	5.85	2968	6.41												
4800	3107	2990	6.45														

Volume CFM	O.V. fpm	8" SP		8 ½" SP		9" SP	
		RPM	bhp	RPM	bhp	RPM	bhp
1500	971	2856	5.31	2937	5.76	3016	6.22
1800	1165	2901	5.67	2981	6.14		
2100	1359	2951	6.06	3031	6.54		
2400	1553	3006	6.49				

***Inlet OD if optional inlet collar is ordered**

Power rating (bhp) does not include drive losses. Performance shown is for installation type B-Free inlet, Ducted Outlet. Performance ratings do not include the effects of appurtenances in the airstream.

● Check direct drive tables on pages 8 and 9. Arrangement 4 would be more compact, less expensive and require less maintenance.

See pages 7 for maximum wheel RPM and WR².

SQAF-180**Wheel**

Diameter - 19.68"

Outlet OD

Size - 15.875" x 17.8125"

Area - 1.96 ft² ID**Inlet OD***

Size - 20.5625"

Area - 2.31 ft² ID**All wheels are SQAF Type**

Class II = light text face above Class III

Class IIP = bold text face

Volume CFM	O.V. fpm	0" SP		1/2" SP		1" SP		1 1/2" SP		2" SP		3" SP		4" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
1500	765	453	0.03	705	0.16	875	0.30	1048	0.48						
1800	918	544	0.06	772	0.20	931	0.37	1064	0.55	1213	0.76				
2100	1071	634	0.10	843	0.26	993	0.44	1120 ●	0.64	1233	0.85	1481	1.35		
2400	1224	725	0.14	916	0.33	1059	0.53	1179 ●	0.75	1289	0.98	1493	1.48	1709	2.07
2700	1377	815	0.20	991	0.41	1128 ●	0.63	1244	0.87	1346	1.11	1534	1.64	1721 ●	2.24
3000	1530	906	0.28	1067	0.51	1199 ●	0.75	1311	1.00	1411	1.27	1590	1.83	1749 ●	2.44
3300	1683	997	0.37	1145 ●	0.62	1272	0.88	1380	1.16	1477	1.44	1648	2.04	1805	2.68
3600	1836	1087	0.48	1224	0.75	1346	1.03	1451	1.33	1544	1.64	1712 ●	2.27	1862	2.94
3900	1989	1178 ●	0.61	1305	0.90	1422	1.21	1523	1.52	1614	1.85	1777 ●	2.52	1921	3.23
4200	2142	1268	0.76	1387	1.07	1498	1.40	1597	1.74	1686	2.08	1844	2.80	1986	3.54
4500	2295	1359	0.94	1471	1.27	1576	1.62	1672	1.97	1758 ●	2.34	1912	3.10	2051	3.88
4800	2448	1450	1.14	1556	1.49	1654	1.86	1747 ●	2.24	1832	2.62	1982	3.42	2118	4.25
5100	2602	1540	1.36	1641	1.74	1734 ●	2.13	1823	2.53	1906	2.93	2054	3.77	2186	4.64
5400	2755	1631	1.62	1726 ●	2.02	1814	2.43	1901	2.84	1981	3.27	2126	4.15	2256	5.06
5700	2908	1721 ●	1.90	1812 ●	2.32	1895	2.75	1979	3.19	2057	3.64	2199	4.56	2326	5.51
6000	3061	1812 ●	2.22	1899	2.66	1979	3.11	2058	3.57	2134	4.04	2274	5.00	2398	5.99
6300	3214	1903	2.57	1986	3.03	2063	3.51	2138	3.99	2212	4.48	2348	5.48	2471	6.50
6600	3367	1993	2.96	2073	3.44	2147	3.93	2218	4.44	2290	4.95	2423	5.99	2544	7.05
6900	3520	2084	3.38	2160	3.88	2232	4.40	2299	4.92	2369	5.45	2499	6.53	2618	7.64
7200	3673	2174	3.84	2248	4.37	2317	4.90	2382	5.45	2448	6.00	2576	7.12	2693	8.27
7500	3826	2265	4.34	2336	4.89	2402	5.44	2466	6.01	2529	6.58	2653	7.75	2768	8.94
7800	3979	2355	4.88	2424	5.45	2488	6.03	2550	6.62	2609	7.21	2731	8.42	2843	9.65
8100	4132	2446	5.46	2512	6.06	2574	6.66	2634	7.27	2691	7.88	2809	9.13	2919	10.40
8400	4285	2537	6.09	2600	6.71	2661	7.33	2719	7.96	2775	8.60	2888	9.88	2996	11.20
8700	4438	2627	6.77	2689	7.41	2747	8.05	2804	8.70	2858	9.36	2967	10.69	3073	12.04
9000	4591	2718	7.50	2777	8.15	2834	8.82	2889	9.49	2942	10.17	3047	11.54	3151	12.94
9300	4744	2808	8.27	2866	8.95	2921	9.64	2975	10.33	3027	11.03	3128	12.44	3230	13.88
9600	4897	2899	9.10	2955	9.79	3009	10.50	3061	11.22	3111	11.94	3208	13.40	3308	14.88

Volume CFM	O.V. fpm	5" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
2700	1377	1912	2.90							Minimum motor frame size is 56 regardless of bhp					
3000	1530	1923	3.12	2096	3.85										
3300	1683	1946	3.35	2107	4.11	2266	4.91	2414	5.75						
3600	1836	2001	3.65	2129	4.39	2277	5.21	2425	6.09	2564	6.98	2695	7.90		
3900	1989	2058	3.97	2184	4.75	2302	5.55	2437	6.43	2575	7.37	2707	8.33	2832	9.31
4200	2142	2115	4.32	2241	5.13	2357	5.96	2466	6.82	2587	7.76	2718	8.76	2843	9.78
4500	2295	2178	4.69	2298	5.54	2413	6.41	2522	7.30	2624	8.22	2730	9.19	2854	10.25
4800	2448	2243	5.10	2358	5.97	2470	6.88	2578	7.81	2680	8.76	2776	9.74	2869	10.74
5100	2602	2309	5.53	2423	6.44	2529	7.38	2635	8.34	2736	9.33	2832	10.35	2924	11.38
5400	2755	2376	5.99	2488	6.94	2593	7.91	2693	8.91	2793	9.94	2888	10.98	2980	12.05
5700	2908	2443	6.49	2554	7.47	2658	8.48	2757	9.52	2851	10.57	2946	11.66	3036	12.76
6000	3061	2513	7.01	2621	8.04	2724	9.08	2822	10.15	2914	11.25	3003	12.36	3093	13.50
6300	3214	2584	7.56	2689	8.64	2791	9.73	2887	10.83	2979	11.96	3067	13.11	3151	14.28
6600	3367	2655	8.15	2759	9.27	2858	10.41	2953	11.55	3044	12.71	3131	13.90	3215	15.10
6900	3520	2728	8.77	2830	9.93	2927	11.12	3020	12.30	3110	13.50	3196	14.73	3279	15.97
7200	3673	2801	9.44	2902	1.64	2997	11.86	3088	13.10	3177	14.34	3262	15.60	3344	16.87
7500	3826	2874	10.15	2974	11.38	3068	12.64	3158	13.92	3245	15.22	3329	16.51	3410 ●	17.83
7800	3979	2949	10.90	3047	12.17	3140	13.47	3228	14.79	3313	16.13	3396	17.47	3477 ●	18.82
8100	4132	3023	11.69	3120	13.01	3212	14.34	3299	15.70	3383	17.08	3464	18.48	3544	19.87
8400	4285	3098	12.53	3194	13.89	3285	15.26	3371	16.66	3454 ●	18.07	3534	19.51		
8700	4438	3174	13.42	3269	14.82	3358	16.23	3443 ●	17.66	3525	19.12	3605	20.59		
9000	4591	3250	14.35	3343	15.79	3432 ●	17.25	3516	18.72	3597	20.21				
9300	4744	3326	15.34	3418 ●	16.82	3507 ●	18.31	3590	19.83						
9600	4897	3403	16.37	3494 ●	17.89	3581	19.43								

Volume CFM	O.V. fpm	12" SP		13" SP		14" SP		15" SP		16" SP		17" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
4200	2142	2962	10.82	3077	11.89								
4500	2295	2974	11.33	3088	12.44	3198	13.57	3304	14.71				
4800	2448	2985	11.85	3100	13.00	3210	14.16	3316	15.35	3419	16.55	3518	17.77
5100	2602	3012	12.44	3111	13.56	3221	14.77	3327	15.99	3430	17.23	3530	18.49
5400	2755	3068	13.14	3152	14.25	3234	15.38	3339	16.64	3441 ●	17.92	3541	19.22
5700	2908	3124	13.88	3208	15.03	3289	16.19	3367	17.38	3453 ●	18.62	3552	19.96
6000	3061	3180	14.66	3264	15.84	3344	17.04	3423 ●	18.26	3499 ●	19.49	3572	20.74
6300	3214	3237	15.48	3320	16.69	3401	17.92	3500 ●	19.17	3554	20.44		
6600	3367	3295	16.33	3378	17.58	3458 ●	18.85	3535	20.13				
6900	3520	3359	17.23	3436 ●	18.51	3515	19.81	3592	21.13				
7200	3673	3424	18.17	3500 ●	19.49	3574	20.82						
7500	3826	3489 ●	19.16	3565	20.51								
7800	3979	3554	20.19										

*Inlet OD if
optional inlet collar
is ordered

Power rating (bhp)
does not include
drive losses.
Performance shown
is for installation type
B-Free inlet, Ducted
Outlet. Performance
ratings do not
include the effects of
appurtenances in the
airstream.

● Check direct drive tables on pages 8 and 9. Arrangement 4 would be more compact, less expensive and require less maintenance.

See pages 7 for maximum wheel RPM and WR².

Maximum motor frame size = 254T (Class II)
Maximum motor frame size = 256T (Class IIP)

SQAF-200**Wheel**

Diameter - 21.56"

Outlet OD

Size - 17.375" x 19.4375"

Area - 2.35 ft² ID**Inlet OD***

Size - 22.5625"

Area - 2.78 ft² ID**All wheels are SQAF Type**

Class II = light text face above Class III

Class IIP = bold text face*Class III = italic face below Class IIP*

Volume CFM	O.V. fpm	0" SP		½" SP		1" SP		1 ½" SP		2" SP		3" SP		4" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
1500	638	345	0.02	597	0.15	782	0.32								
1900	808	436	0.05	660	0.20	812	0.39	959	0.60						
2300	978	528	0.09	729	0.27	870	0.47	991	0.70	1111	0.95				
2700	1148	620	0.14	802	0.35	936	0.58	1049	0.83	1151 ●	1.10	1357	1.70		
3100	1319	712	0.21	878	0.45	1005	0.71	1112 ●	0.98	1208	1.27	1380	1.89	1567	2.61
3500	1489	804	0.31	954	0.57	1076	0.86	1179 ●	1.16	1271	1.47	1437	2.13	1583	2.85
3900	1659	896	0.42	1033	0.72	1150 ●	1.03	1249	1.36	1338	1.70	1495	2.41	1639	3.16
4300	1829	988	0.57	1113 ●	0.89	1225	1.23	1320	1.58	1406	1.95	1559	2.71	1697	3.51
4700	2000	1079	0.74	1195 ●	1.09	1301	1.46	1394	1.84	1477	2.23	1625	3.05	1757 ●	3.90
5100	2170	1171 ●	0.95	1279	1.33	1379	1.72	1469	2.13	1549	2.55	1693	3.42	1822	4.32
5500	2340	1263	1.19	1364	1.60	1458	2.02	1545	2.45	1623	2.90	1763 ●	3.82	1889	4.78
5900	2510	1355	1.47	1450	1.90	1538	2.35	1622	2.81	1698	3.29	1835	4.26	1957	5.28
6300	2680	1447	1.79	1536	2.25	1619	2.73	1699	3.22	1774 ●	3.72	1907	4.75	2027	5.82
6700	2851	1539	2.15	1624	2.64	1701	3.15	1778 ●	3.66	1851	4.19	1981	5.27	2098	6.39
7100	3021	1631	2.56	1711 ●	3.08	1785 ●	3.61	1858	4.16	1928	4.71	2056	5.85	2171	7.02
7500	3191	1723 ●	3.01	1799 ●	3.56	1870	4.13	1939	4.70	2007	5.28	2132	6.47	2244	7.70
7900	3361	1814	3.52	1887	4.10	1955	4.69	2020	5.29	2086	5.90	2208	7.15	2318	8.43
8300	3531	1906	4.08	1976	4.69	2041	5.31	2103	5.94	2166	6.58	2285	7.88	2394	9.21
8700	3702	1998	4.70	2065	5.34	2127	5.99	2187	6.64	2247	7.31	2362	8.66	2469	10.05
9100	3872	2090	5.38	2154	6.04	2214	6.72	2272	7.41	2328	8.10	2441	9.51	2545	10.95
9500	4042	2182	6.12	2243	6.81	2301	7.52	2357	8.23	2410	8.96	2520	10.42	2622	11.92
9900	4212	2274	6.93	2333	7.65	2389	8.38	2443	9.13	2494	9.88	2600	11.40	2700	12.95
10300	4382	2366	7.80	2422	8.55	2477	9.32	2529	10.08	2579	10.86	2680	12.44	2778	14.05
10700	4553	2458	8.75	2512	9.53	2565	10.32	2615	11.12	2664	11.92	2761	13.56	2856	15.22
11100	4723	2549	9.76	2602	10.57	2653	11.39	2702	12.22	2749	13.05	2842	14.74	2936	16.46
11500	4893	2641	10.86	2692	11.70	2742	12.54	2789	13.40	2835	14.26	2924	16.01	3016	17.78

Volume CFM	O.V. fpm	5" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
3100	1319	1741 ●	3.39												
3500	1489	1752 ●	3.67	1910	4.54										
3900	1659	1768	3.97	1922	4.88	2067	5.84	2202	6.83						
4300	1829	1824	4.36	1940	5.24	2078	6.24	2213	7.28	Minimum motor frame size is 56 regardless of bhp					
4700	2000	1881	4.79	1997	5.72	2103	6.68	2225	7.74	2351	8.86	2471	10.02	2585	11.20
5100	2170	1940	5.26	2054	6.23	2160	7.24	2259	8.28	2363	9.39	2483	10.59	2597	11.83
5500	2340	2004	5.76	2112	6.78	2217	7.84	2316	8.93	2409	10.04	2498	11.19	2608	12.46
5900	2510	2070	6.31	2175	7.38	2275	8.48	2373	9.61	2466	10.78	2554	11.97	2638	13.18
6300	2680	2138	6.91	2241	8.02	2338	9.17	2431	10.35	2523	11.56	2611	12.79	2694	14.05
6700	2851	2206	7.55	2308	8.71	2403	9.91	2494	11.13	2582	12.39	2668	13.67	2751	14.98
7100	3021	2276	8.23	2375	9.45	2470	10.70	2559	11.97	2644	13.27	2727	14.60	2809	15.95
7500	3191	2347	8.95	2444	10.25	2537	11.54	2625	12.86	2709	14.21	2789	15.58	2868	16.98
7900	3361	2420	9.73	2515	11.08	2605	12.44	2692	13.81	2775	15.20	2855	16.62	2931	18.07
8300	3531	2493	10.57	2587	11.96	2675	13.38	2760	14.81	2842	16.26	2921	17.73	2996	19.22
8700	3702	2567	11.47	2659	12.91	2746	14.38	2829	15.88	2910	17.38	2988	18.89	3062	20.43
9100	3872	2642	12.42	2733	13.92	2818	15.44	2900	16.99	2979	18.56	3055	20.13	3129	21.72
9500	4042	2718	13.44	2807	14.99	2891	16.56	2972	18.16	3049	19.79	3124	21.43	3197	23.07
9900	4212	2793	14.53	2882	16.13	2965	17.75	3044	19.40	3120	21.08	3194	22.78	3265	24.49
10300	4382	2870	15.68	2957	17.34	3039	19.01	3117	20.71	3192	22.44	3265	24.20	3335	25.97
10700	4553	2947	16.90	3033	18.61	3114	20.35	3191	22.70	3265	23.88	3337	25.68		
11100	4723	3024	18.20	3109	19.97	3189	21.76	3265	23.56	3338	25.39				
11500	4893	3102	19.57	3185	21.39	3265	23.24	3340	25.10						

Volume CFM	O.V. fpm	12" SP		13" SP		14" SP		15" SP		16" SP		17" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
5100	2170	2706	13.09	2810	14.38								
5500	2340	2717	13.77	2822	15.11	2922	16.48	3019	17.86	3113	19.28		
5900	2510	2729	14.47	2833	15.86	2934	17.27	3031	18.71	3125	20.18	3215	21.66
6300	2680	2775	15.34	2852	16.65	2945	18.08	3042	19.57	3136	21.09	3227	22.62
6700	2851	2831	16.31	2908	17.67	2982	19.05	3054	20.45	3148	22.01	3239	23.60
7100	3021	2888	17.33	2965	18.73	3039	20.16	3110	21.61	3179	23.08	3250	24.59
7500	3191	2946	18.41	3022	19.86	3095	21.33	3167	22.82	3236	24.34	3303	25.87
7900	3361	3005	19.54	3080	21.04	3153	22.55	3224	24.09	3292	25.66	3359	27.24
8300	3531	3069	20.74	3140	22.28	3211	23.84	3282	25.43	3350	27.04		
8700	3702	3135	22.00	3204	23.59	3272	25.20	3340	26.83				
9100	3872	3201	23.33	3270	24.96	3337	26.62						
9500	4042	3268	24.73	3336	26.41	3403	28.11						
9900	4212	3335	26.20	3403	27.93								
10300	4382	3404	27.74										

Maximum motor frame size = 256T (Class II)
Maximum motor frame size = 286T (Class IIP)
Maximum motor frame size = 324T (Class III)

*Inlet OD if
optional inlet collar
is ordered

Power rating (bhp)
does not include
drive losses.
Performance shown
is for installation type
B-Free inlet, Ducted
Outlet. Performance
ratings do not
include the effects of
appurtenances in the
airstream.

• Check direct drive tables on pages 8 and 9. Arrangement 4 would be more compact, less expensive and require less maintenance.

See pages 7 for maximum wheel RPM and WR².

Belt Drive Ratings Table – at 70°F | .075 density | sea level

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SQAF-220

Wheel

Diameter - 24"

Outlet OD

Size - 19.375" x 21.625"

Area - 2.91 ft² ID

Inlet OD*

Size - 24.5625"

Area - 3.29 ft² ID

All wheels are SQAF Type

Class II = light text face above Class IIIP

Class IIP = bold text face

Class III = italic face below Class IIP

Volume CFM	O.V. fpm	0" SP		½" SP		1" SP		1 ½" SP		2" SP		3" SP		4" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
2500	859	394	0.08	575	0.28	726	0.54	866	0.84						
3000	1030	473	0.13	632	0.36	757	0.64	885	0.97	1003	1.34				
3500	1202	552	0.21	691	0.48	810	0.77	911	1.11	1024	1.51	1224	2.36		
4000	1374	631	0.31	755	0.61	865	0.94	961	1.30	1050	1.69	1240	2.63	1412	3.60
4500	1546	709	0.44	822	0.78	923	1.14	1015	1.52	1097	1.9 3	1265	2.89	1426	3.98
5000	1718	788	0.61	890	0.99	983	1.37	1071	1.78	1150 ●	2.22	1291	3.16	1451	4.31
5500	1890	867	0.81	959	1.23	1047	1.64	1130 ●	2.08	1206	2.55	1343	3.54	1476	4.66
6000	2061	946	1.05	1031	1.50	1113	1.96	1189	2.43	1263	2.92	1396	3.97	1514	5.08
6500	2233	1025	1.34	1105	1.82	1180 ●	2.32	1252	2.81	1322	3.34	1450	4.43	1566	5.61
7000	2405	1103	1.67	1178 ●	2.19	1248	2.73	1317	3.26	1382	3.80	1507	4.96	1619	6.19
7500	2577	1182 ●	2.06	1253	2.61	1317	3.19	1384	3.75	1445	4.33	1565	5.55	1674	6.82
8000	2749	1261	2.50	1328	3.09	1388	3.70	1451	4.30	1510	4.91	1624	6.18	1730 ●	7.52
8500	2920	1340	2.99	1403	3.62	1461	4.27	1519	4.91	1576	5.55	1683	6.88	1788 ●	8.28
9000	3092	1419	3.55	1478	4.22	1534	4.90	1588	5.59	1643	6.26	1745 ●	7.64	1847	9.11
9500	3264	1497	4.18	1554	4.88	1607	5.60	1657	6.33	1711	7.04	1810	8.48	1906	10.00
10000	3436	1576	4.87	1630	5.61	1681	6.36	1729 ●	7.13	1779 ●	7.88	1876	9.40	1966	10.96
10500	3608	1655	5.64	1707	6.42	1756 ●	7.20	1802	8.00	1848	8.81	1942	10.39	2029	12.00
11000	3780	1734 ●	6.49	1783 ●	7.30	1830	8.12	1875	8.96	1918	9.81	2009	11.45	2094	13.13
11500	3951	1813	7.41	1860	8.26	1905	9.12	1949	9.99	1990	10.87	2077	12.60	2160	14.35
12000	4123	1892	8.42	1937	9.30	1981	10.20	2023	11.11	2063	12.02	2145	13.84	2226	15.65
12500	4295	1970	9.52	2014	10.43	2056	11.37	2097	12.31	2136	13.26	2214	15.17	2293	17.05
13000	4467	2049	10.71	2091	11.66	2132	12.63	2171	13.61	2209	14.59	2283	16.59	2361	18.53
13500	4639	2128	11.99	2169	12.98	2208	13.98	2246	15.00	2283	16.02	2353	18.10	2428	20.12
14000	4810	2207	13.37	2246	14.40	2284	15.44	2321	16.49	2357	17.55	2425	19.69	<i>2497</i>	<i>21.80</i>

Volume CFM	O.V. fpm	5" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
4500	1546	1579	5.06	1718	6.17					Minimum motor frame size is 143T regardless of bhp					
5000	1718	1594	5.53	1732 ●	6.72	1859	7.96								
5500	1890	1618	5.95	1746 ●	7.29	1874	8.60	1992	9.95	2104	11.32				
6000	2061	1643	6.38	1771 ●	7.79	1889	9.26	2006	10.69	2118	12.15	2223	13.63	2323	15.14
6500	2233	1671	6.84	1796	8.31	1914	9.84	2024	11.43	2132	12.99	2237	14.55	2338	16.14
7000	2405	1723 ●	7.48	1822	8.85	1939	10.44	2049	12.09	2152	13.79	2252	15.50	2352	17.17
7500	2577	1776 ●	8.17	1870	9.57	1965	11.07	2074	12.78	2177	14.54	2274	16.35	2367	18.20
8000	2749	1829	8.92	1922	10.38	2009	11.88	2099	13.50	2202	15.32	2299	17.19	2392	19.11
8500	2920	1884	9.72	1975	11.24	2061	12.81	2142	14.41	2227	16.13	2324	18.06	2417	20.04
9000	3092	1941	10.61	2030	12.17	2114	13.79	2194	15.46	2270	17.16	2350	18.97	2442	21.01
9500	3264	1999	11.57	2085	13.17	2168	14.85	2247	16.57	2323	18.33	2395	20.13	2468	22.01
10000	3436	2057	12.59	2143	14.26	2223	15.97	2301	17.75	2376	19.58	2447	21.43	<i>2515</i>	<i>23.32</i>
10500	3608	2117	13.69	2201	15.43	2280	17.20	2355	19.01	2429	20.90	<i>2500</i>	<i>22.81</i>	<i>2568</i>	<i>24.76</i>
11000	3780	2177	14.87	2259	16.67	2337	18.51	2411	20.37	2483	22.29	<i>2553</i>	<i>24.27</i>	<i>2620</i>	<i>26.28</i>
11500	3951	2238	16.13	2318	17.99	2395	19.89	2469	21.82	<i>2539</i>	<i>23.78</i>	<i>2607</i>	<i>25.80</i>	<i>2674</i>	<i>27.88</i>
12000	4123	2302	17.50	2378	19.40	2454	21.37	<i>2526</i>	<i>23.36</i>	<i>2596</i>	<i>25.38</i>	<i>2662</i>	<i>27.43</i>	<i>2728</i>	<i>29.56</i>
12500	4295	2368	18.95	2439	20.90	<i>2514</i>	<i>22.93</i>	<i>2585</i>	<i>24.99</i>	<i>2653</i>	<i>27.07</i>	<i>2719</i>	<i>29.18</i>	<i>2782</i>	<i>31.32</i>
13000	4467	2434	20.51	<i>2503</i>	<i>22.51</i>	<i>2573</i>	<i>24.58</i>	<i>2644</i>	<i>26.70</i>	<i>2711</i>	<i>28.86</i>	<i>2776</i>	<i>31.03</i>	<i>2839</i>	<i>33.24</i>
13500	4639	<i>2500</i>	<i>22.16</i>	<i>2568</i>	<i>24.23</i>	<i>2634</i>	<i>26.33</i>	<i>2703</i>	<i>28.52</i>	<i>2770</i>	<i>30.74</i>	<i>2834</i>	<i>32.98</i>		
14000	4810	<i>2567</i>	<i>23.91</i>	<i>2634</i>	<i>26.04</i>	<i>2698</i>	<i>28.21</i>	<i>2764</i>	<i>30.43</i>	<i>2829</i>	<i>32.71</i>				

Volume CFM	O.V. fpm	12" SP		13" SP		14" SP		15" SP		16" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
6500	2233	2433	17.75	<i>2525</i>	<i>19.39</i>						
7000	2405	2447	18.86	<i>2539</i>	<i>20.58</i>	<i>2628</i>	<i>22.32</i>	<i>2713</i>	<i>24.09</i>		
7500	2577	2462	19.99	<i>2554</i>	<i>21.79</i>	<i>2642</i>	<i>23.61</i>	<i>2727</i>	<i>25.45</i>	<i>2809</i>	<i>27.32</i>
8000	2749	2480	21.07	<i>2568</i>	<i>23.02</i>	<i>2656</i>	<i>24.92</i>	<i>2741</i>	<i>26.84</i>	<i>2824</i>	<i>28.79</i>
8500	2920	<i>2505</i>	<i>22.06</i>	<i>2590</i>	<i>24.12</i>	<i>2672</i>	<i>26.23</i>	<i>2756</i>	<i>28.26</i>	<i>2838</i>	<i>30.29</i>
9000	3092	<i>2530</i>	<i>23.09</i>	<i>2615</i>	<i>25.21</i>	<i>2697</i>	<i>27.38</i>	<i>2776</i>	<i>29.58</i>	<i>2852</i>	<i>31.81</i>
9500	3264	<i>2556</i>	<i>24.15</i>	<i>2640</i>	<i>26.34</i>	<i>2722</i>	<i>28.56</i>	<i>2801</i>	<i>30.82</i>		
10000	3436	<i>2581</i>	<i>25.25</i>	<i>2666</i>	<i>27.50</i>	<i>2747</i>	<i>29.78</i>	<i>2826</i>	<i>32.11</i>		
10500	3608	<i>2633</i>	<i>26.74</i>	<i>2696</i>	<i>28.75</i>	<i>2773</i>	<i>31.04</i>	<i>2851</i>	<i>33.43</i>		
11000	3780	<i>2685</i>	<i>28.32</i>	<i>2748</i>	<i>30.39</i>	<i>2808</i>	<i>32.49</i>				
11500	3951	<i>2738</i>	<i>29.98</i>	<i>2800</i>	<i>32.11</i>						
12000	4123	<i>2791</i>	<i>31.72</i>	<i>2853</i>	<i>33.92</i>						
12500	4295	<i>2846</i>	<i>33.55</i>								

*Inlet OD if optional inlet collar is ordered

Power rating (bhp) does not include drive losses. Performance shown is for installation type B-Free inlet, Ducted Outlet. Performance ratings do not include the effects of appurtenances in the airstream.

• Check direct drive tables on pages 8 and 9. Arrangement 4 would be more compact, less expensive and require less maintenance. See pages 7 for maximum wheel RPM and WR².

Maximum motor frame size = 256T (Class II)
Maximum motor frame size = 286T (Class IIP)
Maximum motor frame size = 324T (Class III)

SQAF-240**Wheel**

Diameter - 26.44"

Outlet OD

Size - 21.3125" x 23.8175"

Area - 3.52 ft² ID**Inlet OD***

Size - 27.5625"

Area - 4.14 ft² ID**All wheels are SQAF Type**

Class II = light text face above Class III

Class IIP = bold text face*Class III = italic face below Class IIP*

Volume CFM	O.V. fpm	0" SP		½" SP		1" SP		1 ½" SP		2" SP		3" SP		4" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
3000	852	354	0.09	519	0.33	657	0.65	785	1.01						
3600	1022	424	0.15	570	0.43	684	0.76	802	1.17	910	1.61				
4200	1193	495	0.25	623	0.57	731	0.92	825	1.33	928	1.82	1110	2.83		
4800	1363	566	0.37	680	0.73	781	1.12	868	1.5 5	951	2.03	1124 ●	3.17	1280	4.33
5400	1534	637	0.52	740	0.93	833	1.36	916	1.82	991	2.31	1146 ●	3.47	1293	4.78
6000	1704	707	0.71	801	1.17	886	1.63	967	2.13	1039	2.65	1169 ●	3.79	1315	5.18
6600	1875	778	0.95	863	1.45	943	1.95	1019	2.48	1088	3.04	1213	4.24	1337	5.60
7200	2045	849	1.23	927	1.78	1002	2.32	1072	2.88	1140 ●	3.48	1260	4.74	1368	6.09
7800	2215	920	1.57	993	2.15	1062	2.74	1127 ●	3.34	1192	3.97	1309	5.29	1414	6.72
8400	2386	990	1.96	1059	2.59	1123 ●	3.23	1186 ●	3.86	1246	4.52	1360	5.92	1462	7.40
9000	2556	1061	2.41	1126 ●	3.08	1185 ●	3.77	1246	4.45	1301	5.14	1411	6.61	1511	8.14
9600	2727	1132 ●	2.93	1193	3.64	1248	4.37	1306	5.09	1360	5.83	1464	7.36	1561	8.97
10200	2897	1203	3.51	1260	4.27	1313	5.04	1367	5.81	1419	6.59	1518	8.18	1613	9.87
10800	3068	1273	4.17	1328	4.97	1379	5.78	1429	6.61	1479	7.42	1572	9.08	1665	10.84
11400	3238	1344	4.90	1396	5.74	1445	6.60	1491	7.48	1540	8.33	1630	10.07	1719 ●	11.90
12000	3409	1415	5.72	1464	6.60	1511	7.50	1555	8.43	1601	9.33	1689	11.15	1772 ●	13.03
12600	3579	1485	6.62	1533	7.55	1578	8.49	1620	9.46	1663	10.41	1749 ●	12.31	1828	14.26
13200	3750	1556	7.61	1602	8.58	1645	9.57	1686	10.57	1725 ●	11.59	1809	13.57	1886	15.59
13800	3920	1627	8.70	1670	9.71	1712 ●	10.74	1752 ●	11.79	1790 ●	12.85	1869	14.92	1945	17.02
14400	4090	1698	9.88	1739 ●	10.94	1779 ●	12.01	1818	13.10	1855	14.20	1931	16.38	2004	18.56
15000	4261	1768 ●	11.17	1809	12.27	1847	13.39	1884	14.52	1920	15.66	1992	17.94	2064	20.20
15600	4431	1839	12.56	1878	13.71	1915	14.87	1951	16.04	1986	17.23	2054	19.61	2125	21.95
16200	4602	1910	14.07	1947	15.26	1983	16.46	2018	17.67	2052	18.90	2116	21.40	2186	23.82
16800	4772	1981	15.69	2017	16.92	2052	18.17	2085	19.42	2118	20.70	2181	23.28	2247	25.80
17400	4943	2051	17.43	2086	18.71	2120	19.99	2153	21.30	2185	22.61	2246	25.27	2308	27.91

Volume CFM	O.V. fpm	5" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
5400	1534	1432	6.08	1558	7.42					Minimum motor frame size is 143T regardless of bhp					
6000	1704	1445	6.64	1571	8.08	1686	9.57								
6600	1875	1466	7.15	1584	8.76	1699	10.34	1807	11.96	1908	13.62				
7200	2045	1488	7.67	1604	9.37	1712	11.14	1820	12.85	1921	14.60	2016	16.39		
7800	2215	1511	8.21	1627	9.99	1734 ●	11.84	1834	13.75	1933	15.61	2029	17.50	2120	19.41
8400	2386	1556	8.96	1650	10.63	1756 ●	12.56	1856	14.54	1949	16.59	2042	18.63	2133	20.64
9000	2556	1604	9.77	1689	11.46	1779 ●	13.30	1879	15.37	1972	17.49	2060	19.67	2146	21.89
9600	2727	1652	10.66	1736 ●	12.41	1815	14.22	1901	16.22	1995	18.42	2083	20.68	2167	22.99
10200	2897	1701	11.60	1784 ●	13.44	1862	15.32	1935	17.25	2017	19.39	2105	21.72	2189	24.10
10800	3068	1751 ●	12.66	1832	14.53	1909	16.49	1982	18.50	2051	20.54	2128	22.80	2212	25.26
11400	3238	1803	13.79	1882	15.72	1958	17.74	2030	19.82	2098	21.94	2164	24.10	2235	26.45
12000	3409	1856	15.00	1933	17.01	2006	19.07	2078	21.22	2145	23.41	2210	25.65	2273	27.92
12600	3579	1909	16.30	1985	18.38	2057	20.51	2126	22.71	2193	24.97	2258	27.28	2319	29.63
13200	3750	1962	17.68	2037	19.85	2109	22.06	2176	24.30	2242	26.62	2306	29.01	2367	31.43
13800	3920	2016	19.17	2090	21.42	2161	23.70	2227	26.02	2291	28.37	2354	30.83	2414	33.32
14400	4090	2074	20.78	2144	23.08	2213	25.44	2279	27.84	2342	30.27	2403	32.74	2463	35.31
15000	4261	2132	22.50	2198	24.84	2266	27.28	2331	29.76	2394	32.27	2454	34.81	2512	37.40
15600	4431	2192	24.33	2255	26.73	2320	29.23	2384	31.79	2446	34.38	2505	37.00	2562	39.65
16200	4602	2251	26.27	2313	28.76	2374	31.29	2437	33.93	2498	36.60	2557	39.30		
16800	4772	2311	28.33	2372	30.90	2431	33.50	2491	36.19	2551	38.93				
17400	4943	2371	30.52	2431	33.17	2489	35.84	2546	38.56						

Volume CFM	O.V. fpm	12" SP		13" SP		14" SP		15" SP		16" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
7800	2215	2207	21.36								
8400	2386	2220	22.68	2303	24.75	2383	26.85				
9000	2556	2232	24.02	2316	26.19	2396	28.39	2473	30.61	2548	32.86
9600	2727	2247	25.35	2329	27.66	2409	29.95	2486	32.27	2561	34.62
10200	2897	2270	26.54	2347	29.03	2422	31.55	2499	33.97	2574	36.41
10800	3068	2292	27.77	2369	30.33	2443	32.94	2515	35.59		
11400	3238	2315	29.03	2392	31.67	2466	34.35	2537	37.08		
12000	3409	2338	30.34	2415	33.05	2489	35.81	2560	38.61		
12600	3579	2379	32.02	2438	34.47	2511	37.31	2583	40.19		
13200	3750	2426	33.89	2483	36.39	2538	38.92				
13800	3920	2473	35.86	2529	38.43	2584	41.03				
14400	4090	2521	37.92	2577	40.56						
15000	4261	2569	40.09								

*Inlet OD if optional inlet collar is ordered

Power rating (bhp) does not include drive losses. Performance shown is for installation type B-Free inlet, Ducted Outlet. Performance ratings do not include the effects of appurtenances in the airstream.

Maximum motor frame size = 256T (Class II)

Maximum motor frame size = 286T (Class IIP)

Maximum motor frame size = 324T (Class III)

• Check direct drive tables on pages 8 and 9. Arrangement 4 would be more compact, less expensive and require less maintenance.

See pages 7 for maximum wheel RPM and WR².

SQAF-270**Wheel**

Diameter - 29.13"

Outlet OD

Size - 23.5" x 26.25"

Area - 4.28 ft² ID**Inlet OD***

Size - 30.5625"

Area - 5.09 ft² ID**All wheels are SQAF Type**

Class II = light text face above Class IIIP

Class IIP = bold text face*Class III = italic face below Class IIP*

Volume CFM	O.V. fpm	0" SP		½" SP		1" SP		1 ½" SP		2" SP		3" SP		4" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
2500	584	206	0.03	411	0.26										
3250	759	268	0.06	435	0.33	578	0.68								
4000	934	330	0.12	476	0.44	595	0.81	708	1.26						
4750	1109	392	0.20	519	0.57	624	0.98	724	1.45	819	1.97				
5500	1285	454	0.31	565	0.73	664	1.18	748	1.68	837	2.24	1000	3.48		
6250	1460	516	0.46	617	0.92	707	1.43	787	1.97	861	2.54	1009	3.83	1154 ●	5.30
7000	1635	578	0.64	671	1.16	751	1.71	828	2.30	897	2.91	1033	4.27	1160 ●	5.75
7750	1810	640	0.87	725	1.44	797	2.04	871	2.67	937	3.33	1057	4.74	1182 ●	6.31
8500	1985	702	1.15	781	1.77	849	2.42	916	3.10	980	3.81	1095	5.29	1206	6.91
9250	2161	764	1.48	837	2.15	902	2.85	961	3.58	1024	4.34	1135	5.91	1234	7.58
10000	2336	826	1.87	894	2.59	956	3.34	1011	4.12	1069	4.93	1176 ●	6.59	1274	8.35
10750	2511	888	2.32	952	3.09	1010	3.90	1064	4.72	1114 ●	5.58	1220	7.34	1314	9.19
11500	2686	950	2.84	1010	3.66	1065	4.52	1117 ●	5.39	1165 ●	6.30	1264	8.16	1355	10.09
12250	2862	1011	3.43	1069	4.31	1121 ●	5.21	1171 ●	6.14	1217	7.09	1309	9.05	1399	11.08
13000	3037	1073	4.10	1128 ●	5.03	1178 ●	5.99	1225	6.96	1270	7.96	1354	10.02	1443	12.15
13750	3212	1135 ●	4.85	1187 ●	5.83	1235	6.84	1280	7.87	1323	8.91	1403	11.07	1488	13.29
14500	3387	1197 ●	5.69	1247	6.72	1292	7.78	1336	8.86	1377	9.96	1455	12.21	1533	14.53
15250	3563	1259	6.62	1306	7.70	1350	8.81	1392	9.95	1432	11.09	1508	13.44	1579	15.86
16000	3738	1321	7.64	1366	8.78	1408	9.94	1448	11.12	1487	12.32	1561	14.77	1629	17.28
16750	3913	1383	8.77	1426	9.96	1467	11.17	1506	12.40	1543	13.66	1614	16.20	1681	18.81
17500	4088	1445	10.00	1486	11.24	1526	12.51	1563	13.79	1599	15.09	1668	17.74	1733 ●	20.44
18250	4264	1507	11.34	1547	12.64	1585	13.95	1621	15.29	1655	16.64	1723 ●	19.38	1786 ●	22.19
19000	4439	1569	12.80	1607	14.14	1644	15.51	1679	16.90	1712 ●	18.30	1778 ●	21.15	1840	24.05
19750	4614	1631	14.37	1668	15.77	1703	17.19	1737 ●	18.63	1770 ●	20.08	1833	23.04	1893	26.03
20500	4789	1693	16.07	1728 ●	17.53	1762 ●	19.00	1795	20.48	1827	21.99	1888	25.05	1948	28.14
21250	4964	1755 ●	17.90	1789 ●	19.40	1822	20.93	1854	22.47	1885	24.03	1944	27.19	2002	30.38

Volume CFM	O.V. fpm	5" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
7000	1635	1290	7.42	1407	9.17					Minimum motor frame size is 143T regardless of bhp					
7750	1810	1297	7.97	1414	9.83	1522	11.75								
8500	1985	1317	8.65	1420	10.49	1528	12.51	1629	14.60						
9250	2161	1341	9.40	1441	11.30	1535	13.29	1635	15.48	1729	17.73	1819	20.04		
10000	2336	1365	10.19	1464	12.19	1556	14.26	1642	16.37	1736 ●	18.72	1825	21.13	1910	23.60
10750	2511	1402	11.10	1488	13.13	1580	15.29	1666	17.51	1746 ●	19.78	1832	22.24	1917	24.80
11500	2686	1441	12.10	1521	14.17	1604	16.38	1689	18.69	1770 ●	21.06	1846	23.48	1923	26.02
12250	2862	1482	13.18	1560	15.34	1634	17.56	1713	19.93	1793 ●	22.40	1869	24.92	1942	27.48
13000	3037	1524	14.33	1601	16.59	1673	18.90	1741 ●	21.27	1817	23.80	1893	26.42	1965	29.08
13750	3212	1567	15.58	1642	17.92	1713	20.32	1781 ●	22.78	1845	25.29	1917	27.97	1989	30.74
14500	3387	1611	16.91	1684	19.34	1754 ●	21.84	1821	24.39	1884	26.99	1945	29.64	2013	32.46
15250	3563	1656	18.34	1728 ●	20.87	1795 ●	23.45	1861	26.09	1924	28.78	1985	31.52	2042	34.31
16000	3738	1701	19.86	1772 ●	22.49	1838	25.16	1902	27.89	1965	30.67	2024	33.51	2082	36.36
16750	3913	1747 ●	21.49	1816	24.21	1882	26.98	1945	29.80	2006	32.67	2065	35.60	2122	38.56
17500	4088	1794 ●	23.22	1862	26.04	1927	28.91	1988	31.82	2047	34.78	2105	37.79	2162	40.85
18250	4264	1846	25.06	1907	27.98	1971	30.95	2032	33.96	2091	37.01	2147	40.11	2203	43.26
19000	4439	1898	27.01	1954	30.04	2017	33.10	2077	36.21	2135	39.36	2190	42.55		
19750	4614	1951	29.09	2005	32.21	2062	35.38	2122	38.58	2179	41.83				
20500	4789	2004	31.30	2057	34.51	2109	37.78	2167	41.08	2224	44.42				
21250	4964	2057	33.64	2110	36.94	2160	40.30	2213	43.71						

Volume CFM	O.V. fpm	12" SP		13" SP		14" SP	
		RPM	bhp	RPM	bhp	RPM	bhp
10000	2336	1991	26.12				
10750	2511	1998	27.42	2075	30.09	2150	32.81
11500	2686	2004	28.74	2082	31.51	2157	34.33
12250	2862	2011	30.09	2088	32.95	2163	35.86
13000	3037	2035	31.78	2101	34.53	2170	37.42
13750	3212	2058	33.54	2125	36.39	2189	39.27
14500	3387	2082	35.36	2148	38.31	2212	41.29
15250	3563	2106	37.25	2172	40.30		
16000	3738	2137	39.30	2196	42.36		
16750	3913	2176	41.57				
17500	4088	2216	43.96				

***Inlet OD if optional inlet collar is ordered**

Power rating (bhp) does not include drive losses. Performance shown is for installation type B-Free inlet, Ducted Outlet. Performance ratings do not include the effects of appurtenances in the airstream.

Maximum motor frame size = 256T (Class II)

Maximum motor frame size = 286T (Class IIP)

Maximum motor frame size = 324T (Class III)

● Check direct drive tables on pages 8 and 9. Arrangement 4 would be more compact, less expensive and require less maintenance.

See pages 7 for maximum wheel RPM and WR².

SQAF-300**Wheel**

Diameter - 32.38"

Outlet OD

Size - 26.125" x 29.1875"

Area - 5.3 ft² ID**Inlet OD***

Size - 33.5625"

Area - 6.14 ft² ID**All wheels are SQAF Type**

Class II = light text face above Class IIIP

Class IIP = bold text face*Class III = italic face below Class IIP*

Volume CFM	O.V. fpm	0" SP		½" SP		1" SP		1 ½" SP		2" SP		3" SP		4" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
4600	867	278	0.12	416	0.49	529	0.94	636	1.47						
5400	1018	327	0.19	449	0.61	548	1.10	643	1.66	735	2.30				
6200	1169	375	0.29	484	0.77	576	1.30	661	1.89	741	2.54	898	4.04		
7000	1320	423	0.42	521	.9 5	608	1.53	683	2.15	760	2.85	903	4.39	1036	6.12
7800	1471	472	0.58	562	1.17	642	1.80	714	2.47	778	3.18	913	4.78	1041	6.59
8600	1622	520	0.78	604	1.42	677	2.10	746	2.82	808	3.58	931	5.24	1046	7.06
9400	1773	569	1.02	646	1.71	712	2.45	779	3.22	840	4.02	950	5.74	1063	7.65
10200	1924	617	1.31	690	2.05	752	2.84	814	3.66	872	4.51	977	6.31	1081	8.29
11000	2075	665	1.64	734	2.44	793	3.28	849	4.15	906	5.06	1008	6.95	1100	8.96
11800	2226	714	2.02	778	2.88	835	3.77	886	4.70	941	5.65	1040	7.65	1129	9.74
12600	2377	762	2.46	823	3.37	877	4.32	927	5.30	976	6.31	1073	8.40	1160 ●	10.59
13400	2528	811	2.96	868	3.93	920	4.93	968	5.96	1012	7.02	1107	9.22	1192 ●	11.50
14200	2679	859	3.53	914	4.55	963	5.60	1009	6.68	1052	7.80	1141 ●	10.10	1224	12.48
15000	2830	907	4.16	959	5.23	1007	6.34	1051	7.48	1093	8.64	1177 ●	11.05	1258	13.53
15800	2981	956	4.86	1005	5.99	1051	7.16	1094	8.34	1134 ●	9.56	1212	12.07	1292	14.66
16600	3132	1004	5.64	1052	6.82	1095	8.04	1137 ●	9.28	1176 ●	10.55	1249	13.16	1327	15.86
17400	3283	1053	6.49	1098	7.73	1140 ●	9.01	1180 ●	10.31	1218	11.62	1289	14.34	1362	17.14
18200	3433	1101	7.43	1145 ●	8.73	1185 ●	10.05	1224	11.41	1261	12.78	1330	15.59	1398	18.50
19000	3584	1149 ●	8.45	1191 ●	9.80	1231	11.19	1268	12.60	1304	14.02	1371	16.94	1434	19.95
19800	3735	1198 ●	9.57	1238	10.97	1276	12.41	1312	13.87	1347	15.36	1413	18.38	1474	21.49
20600	3886	1246	10.77	1285	12.24	1322	13.73	1357	15.24	1390	16.78	1455	19.91	1515	23.12
21400	4037	1295	12.08	1332	13.60	1368	15.14	1401	16.71	1434	18.31	1497	21.54	1556	24.86
22200	4188	1343	13.48	1379	15.06	1414	16.66	1447	18.28	1478	19.93	1539	23.27	1597	26.69
23000	4339	1391	14.99	1426	16.62	1460	18.28	1492	19.96	1523	21.66	1582	25.11	1638	28.63
23800	4490	1440	16.61	1474	18.30	1506	20.01	1537	21.75	1567	23.50	1625	27.06	1680	30.69
24600	4641	1488	18.34	1521	20.08	1552	21.85	1583	23.64	1612	25.45	1668	29.13	1723 ●	32.86
25400	4792	1536	20.19	1568	21.99	1599	23.82	1629	25.66	1657	27.52	1712	31.31	1765 ●	35.14
26200	4943	1585	22.16	1616	24.02	1646	25.89	1674	27.79	1702	29.71	1756	33.61	1808	37.55

Volume CFM	O.V. fpm	5" SP		6" SP		7" SP		8" SP		9" SP		10" SP		11" SP	
		RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp	RPM	bhp
8600	1622	1163 ●	9.12	1269	11.27										
9400	1773	1168 ●	9.71	1274	11.97	1371	14.32								
10200	1924	1181 ●	10.40	1279	12.68	1376	15.13	1466	17.67						
										Minimum motor frame size is 143T regardless of bhp					
11000	2075	1200	11.18	1290	13.47	1381	15.96	1472	18.60	1557	21.32				
11800	2226	1218	12.00	1308	14.40	1391	16.87	1477	19.54	1562	22.37	1642	25.27	1719	28.23
12600	2377	1239	12.87	1327	15.36	1410	17.94	1487	20.59	1567	23.43	1647	26.44	1724	29.51
13400	2528	1270	13.88	1346	16.37	1428	19.06	1505	21.81	1578	24.63	1652	27.62	1729 ●	30.80
14200	2679	1301	14.96	1373	17.51	1447	20.22	1524	23.08	1596	26.00	1665	28.96	1734 ●	32.10
15000	2830	1333	16.10	1404	18.76	1470	21.48	1543	24.40	1615	27.43	1684	30.52	1749 ●	33.66
15800	2981	1365	17.32	1435	20.07	1501	22.90	1562	25.79	1634	28.91	1702	32.11	1767 ●	35.35
16600	3132	1399	18.62	1467	21.47	1532	24.39	1593	27.38	1653	30.45	1721 ●	33.75	1786 ●	37.10
17400	3283	1433	20.01	1499	22.95	1563	25.97	1624	29.05	1682	32.19	1740 ●	35.45	1805	38.91
18200	3433	1468	21.47	1533	24.51	1595	27.62	1655	30.81	1713	34.05	1767 ●	37.35	1823	40.78
19000	3584	1503	23.03	1567	26.17	1628	29.38	1687	32.66	1744 ●	36.00	1798 ●	39.40	1850	42.85
19800	3735	1538	24.67	1602	27.92	1662	31.23	1719 ●	34.60	1776 ●	38.04	1829	41.53	1881	45.09
20600	3886	1574	26.41	1637	29.76	1696	33.17	1753 ●	36.64	1807	40.17	1861	43.77	1912	47.42
21400	4037	1611	28.25	1672	31.70	1731 ●	35.22	1787 ●	38.79	1840	42.41	1893	46.10	1944	49.85
22200	4188	1651	30.19	1708	33.75	1766 ●	37.37	1821	41.04	1874	44.76	1925	48.54	1975	52.39
23000	4339	1692	32.23	1744 ●	35.90	1801 ●	39.62	1856	43.39	1908	47.22	1958	51.10		
23800	4490	1733 ●	34.39	1782 ●	38.16	1837	41.99	1891	45.86	1943	49.79	1992	53.77		
24600	4641	1774 ●	36.66	1823	40.53	1873	44.47	1926	48.45	1977	52.48				
25400	4792	1815	39.04	1864	43.02	1910	47.06	1962	51.15						
26200	4943	1857	41.55	1905	45.63	1950	49.77	1997	53.97						

Volume CFM	O.V. fpm	12" SP		13" SP		14" SP	
		RPM	bhp	RPM	bhp	RPM	bhp
12600	2377	1797 ●	32.65	1867	35.85		
13400	2528	1802	34.04	1872	37.35	1939	40.72
14200	2679	1807	35.45	1877	38.87	1944	42.34
15000	2830	1812	36.88	1882	40.40	1950	43.98
15800	2981	1830	38.66	1890	42.01	1955	45.63
16600	3132	1848	40.51	1908	43.97	1966	47.48
17400	3283	1867	42.43	1926	45.99	1984	49.61
18200	3433	1885	44.40	1945	48.08	2002	51.80
19000	3584	1904	46.44	1964	50.22		
19800	3735	1931	48.69	1983	52.43		
20600	3886	1961	51.12				
21400	4037	1993	53.65				

***Inlet OD if optional inlet collar is ordered**

Power rating (bhp) does not include drive losses. Performance shown is for installation type B-Free inlet, Ducted Outlet. Performance ratings do not include the effects of appurtenances in the airstream.

Maximum motor frame size = 256T (Class II)

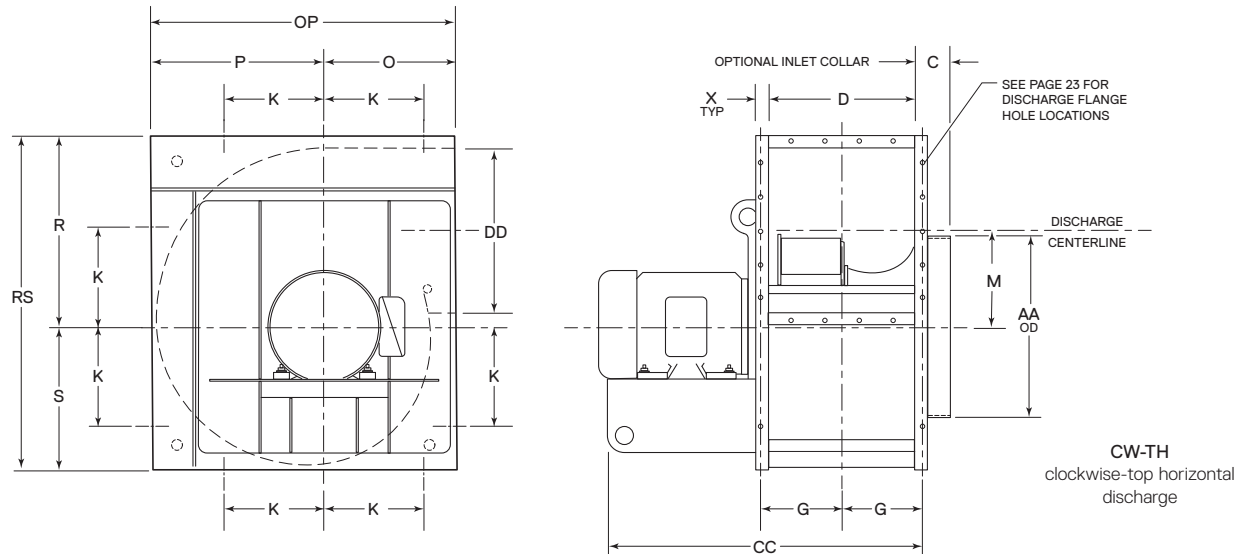
Maximum motor frame size = 286T (Class IIP)

Maximum motor frame size = 324T (Class III)

• Check direct drive tables on pages 8 and 9. Arrangement 4 would be more compact, less expensive and require less maintenance.

See pages 7 for maximum wheel RPM and WR².

ARRANGEMENT 4 — DIRECT DRIVE

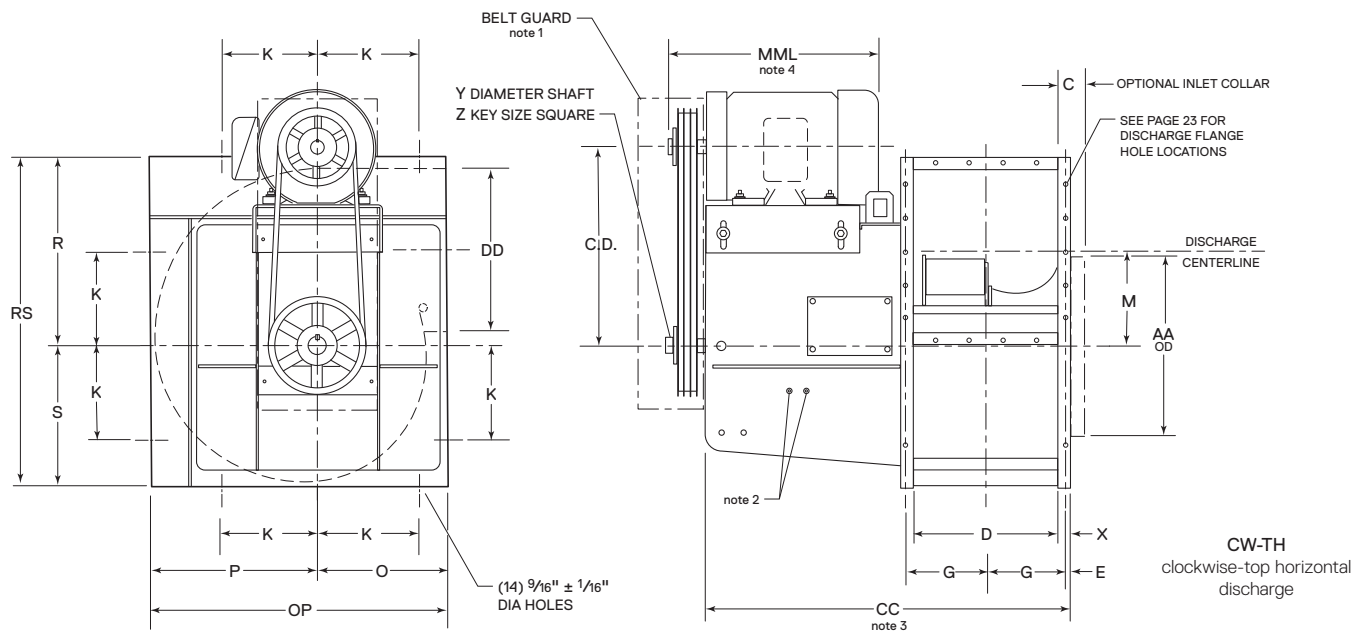


Model	Motor Frame	D	E	G	K	M	O	P	R	S	X	AA	DD
SQAF-120	143T-215T	10 ¹¹ / ₁₆ "	⁷ / ₁₆ "	6 ¹ / ₃₂ "	7"	6 ¹⁵ / ₁₆ "	10"	12 ¹ / ₂ "	14 ¹ / ₁₆ "	10 ¹ / ₂ "	1 ¹ / ₈ "	13 ⁷ / ₁₆ "	12"
SQAF-130	143T-215T	11 ³ / ₄ "	⁷ / ₁₆ "	6 ⁹ / ₁₆ "	7 ¹¹ / ₁₆ "	7 ⁵ / ₈ "	11"	13 ³ / ₄ "	15 ³ / ₈ "	11 ¹ / ₂ "	1 ¹ / ₈ "	15 ⁷ / ₁₆ "	13 ¹ / ₄ "
SQAF-150	143T-256T	13 ¹ / ₁₆ "	⁵ / ₈ "	7 ¹ / ₁₆ "	8 ⁹ / ₁₆ "	8 ¹ / ₂ "	12"	15 ¹ / ₄ "	17 ⁵ / ₁₆ "	12 ³ / ₄ "	1 ¹ / ₂ "	16 ⁹ / ₁₆ "	14 ⁵ / ₈ "
SQAF-160	143T-256T	14 ³ / ₈ "	⁵ / ₈ "	8 ¹ / ₁₆ "	9 ³ / ₈ "	9 ⁷ / ₁₆ "	13"	16 ³ / ₄ "	18 ¹⁵ / ₁₆ "	14"	1 ¹ / ₂ "	18 ⁹ / ₁₆ "	16"
SQAF-180	143T-324T	15 ⁷ / ₈ "	⁵ / ₈ "	8 ¹ / ₁₆ "	10 ³ / ₈ "	10 ¹³ / ₁₆ "	14 ¹ / ₄ "	18 ¹ / ₂ "	20 ¹³ / ₁₆ "	15 ⁷ / ₁₆ "	1 ¹ / ₂ "	20 ⁹ / ₁₆ "	17 ¹³ / ₁₆ "
SQAF-200	182T-326T	17 ³ / ₈ "	⁵ / ₈ "	9 ⁹ / ₁₆ "	11 ³ / ₄ "	11 ¹³ / ₁₆ "	15 ¹ / ₂ "	20 ³ / ₈ "	22 ⁵ / ₈ "	17"	1 ¹ / ₂ "	22 ⁹ / ₁₆ "	19 ⁷ / ₁₆ "
SQAF-220	182T-326T	19 ³ / ₈ "	⁵ / ₈ "	10 ³ / ₁₆ "	13 ¹ / ₄ "	12 ¹¹ / ₁₆ "	17"	22 ⁹ / ₁₆ "	25"	18 ⁷ / ₈ "	1 ¹ / ₂ "	24 ⁹ / ₁₆ "	21 ⁵ / ₈ "
SQAF-240	213T-256T	21 ⁵ / ₁₆ "	⁵ / ₈ "	11 ¹⁷ / ₃₂ "	14 ³ / ₄ "	13 ³¹ / ₃₂ "	18 ¹ / ₂ "	24 ¹³ / ₁₆ "	27 ³ / ₈ "	20 ³ / ₄ "	1 ¹ / ₂ "	27 ⁹ / ₁₆ "	23 ¹³ / ₁₆ "
SQAF-270	213T-286T	23 ¹ / ₂ "	⁷ / ₈ "	12 ⁷ / ₈ "	16 ¹ / ₂ "	15 ³ / ₈ "	20 ¹ / ₄ "	27 ¹ / ₄ "	30 ¹ / ₂ "	22 ⁷ / ₈ "	2"	30 ⁹ / ₁₆ "	26 ¹ / ₄ "
SQAF-300	254T-326T	26 ¹ / ₈ "	⁷ / ₈ "	14 ³ / ₁₆ "	18 ¹ / ₂ "	17 ³ / ₃₂ "	22 ¹ / ₄ "	30 ¹ / ₄ "	33 ¹¹ / ₁₆ "	25 ⁵ / ₁₆ "	2"	33 ⁹ / ₁₆ "	29 ³ / ₁₆ "

Model	OP	RS	CC					
			143T-145T	182T-184T	213T-215T	254T-256T	284T-286T(S)	324T-326T(S)
SQAF-120	22 ¹ / ₂ "	24 ⁹ / ₁₆ "	24 ⁷ / ₁₆ "	26 ¹³ / ₁₆ "	26 ¹⁵ / ₁₆ "			
SQAF-130	24 ³ / ₄ "	26 ⁷ / ₈ "	25 ¹ / ₂ "	27 ⁷ / ₈ "	29"			
SQAF-150	27 ¹ / ₄ "	30 ¹ / ₁₆ "	27 ³ / ₁₆ "	29 ⁹ / ₁₆ "	30 ¹¹ / ₁₆ "	33 ¹¹ / ₁₆ "		
SQAF-160	29 ³ / ₄ "	32 ¹⁵ / ₁₆ "	28 ¹ / ₂ "	31"	32"	35"		
SQAF-180	32 ³ / ₄ "	36 ¹ / ₄ "	30"	32 ¹ / ₂ "	32 ¹ / ₂ "	36 ¹ / ₂ "	40 ¹ / ₂ "	43 ¹ / ₂ "
SQAF-200	35 ⁷ / ₈ "	39 ⁵ / ₈ "	31 ¹ / ₂ "	34"	35"	38"	42"	45"
SQAF-220	39 ⁹ / ₁₆ "	43 ⁷ / ₈ "		36"	37"	40"	44"	47"
SQAF-240	43 ⁵ / ₁₆ "	48 ¹ / ₈ "			38 ¹⁵ / ₁₆ "	41 ¹⁵ / ₁₆ "		
SQAF-270	47 ¹ / ₂ "	53 ³ / ₈ "			41 ¹¹ / ₁₆ "	44 ¹¹ / ₁₆ "	48 ¹¹ / ₁₆ "	
SQAF-300	52 ¹ / ₂ "	59"				47 ⁵ / ₁₆ "	51 ⁵ / ₁₆ "	54 ⁵ / ₁₆ "

Note—Dimension are for full width housings. For partial width housings consult your Cincinnati Fan sales representative.

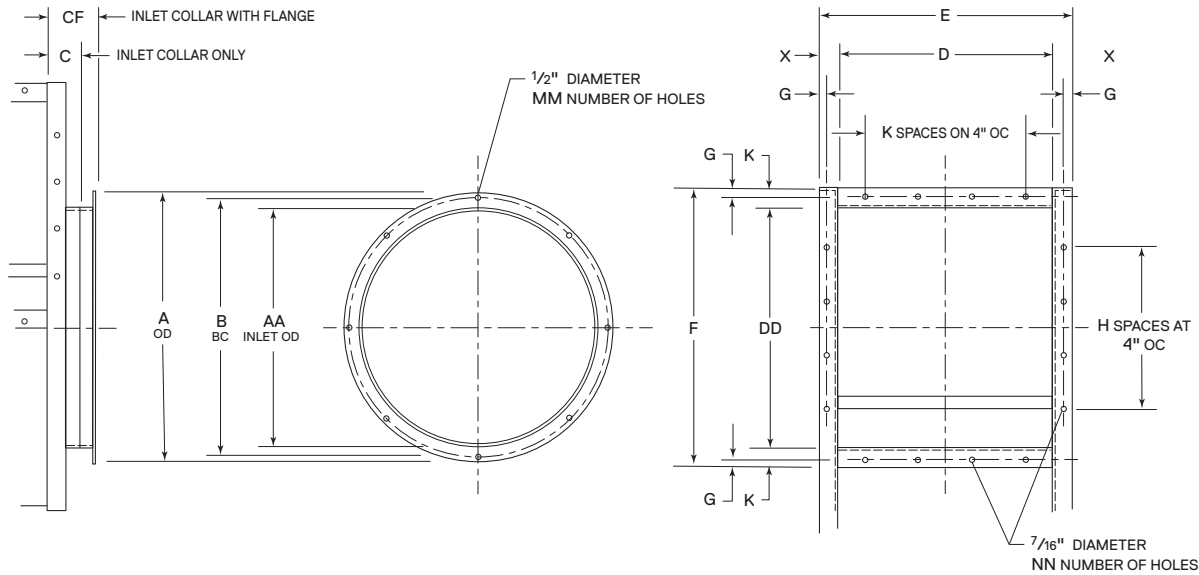
ARRANGEMENT 9 — BELT DRIVE



Model	D	E	F	G	K	M	O	P	R	S	Y note 4		
											Class II	Class IIP	Class III
SQAF-120	10 ¹¹ / ₁₆ "	⁷ / ₁₆ "	4"	6 ¹ / ₃₂ "	7"	6 ¹⁵ / ₁₆ "	10"	12 ¹ / ₂ "	14 ¹ / ₁₆ "	10 ¹ / ₂ "		1 ³ / ₁₆ "	
SQAF-130	11 ³ / ₄ "	⁷ / ₁₆ "	4"	6 ⁹ / ₁₆ "	7 ¹¹ / ₁₆ "	7 ⁵ / ₈ "	11"	13 ³ / ₄ "	15 ³ / ₈ "	11 ¹ / ₂ "		1 ³ / ₁₆ "	
SQAF-150	13 ¹ / ₁₆ "	⁵ / ₈ "	4"	7 ¹³ / ₁₆ "	8 ⁹ / ₁₆ "	8 ¹ / ₂ "	12"	15 ¹ / ₄ "	17 ⁵ / ₁₆ "	12 ³ / ₄ "		1 ⁷ / ₁₆ "	
SQAF-160	14 ³ / ₈ "	⁵ / ₈ "	4"	8 ¹ / ₁₆ "	9 ³ / ₈ "	9 ⁷ / ₁₆ "	13"	16 ³ / ₄ "	18 ¹⁵ / ₁₆ "	14"	1 ⁷ / ₁₆ "	1 ⁷ / ₁₆ "	
SQAF-180	15 ⁷ / ₈ "	⁵ / ₈ "	4 ¹ / ₂ "	8 ¹³ / ₁₆ "	10 ³ / ₈ "	10 ¹³ / ₁₆ "	14 ¹ / ₄ "	18 ¹ / ₂ "	20 ¹³ / ₁₆ "	15 ⁷ / ₁₆ "	1 ⁷ / ₁₆ "	1 ¹¹ / ₁₆ "	
SQAF-200	17 ³ / ₈ "	⁵ / ₈ "	4 ¹ / ₂ "	9 ⁹ / ₁₆ "	11 ³ / ₄ "	11 ¹³ / ₁₆ "	15 ¹ / ₂ "	20 ³ / ₈ "	22 ⁵ / ₈ "	17"	1 ¹¹ / ₁₆ "	1 ¹⁵ / ₁₆ "	2 ⁷ / ₁₆ "
SQAF-220	19 ³ / ₈ "	⁵ / ₈ "	4 ¹ / ₂ "	10 ³ / ₁₆ "	13 ¹ / ₄ "	12 ¹¹ / ₁₆ "	17"	22 ⁹ / ₁₆ "	25"	18 ⁷ / ₈ "	1 ¹¹ / ₁₆ "	1 ¹⁵ / ₁₆ "	2 ⁷ / ₁₆ "
SQAF-240	21 ⁵ / ₁₆ "	⁵ / ₈ "	4 ¹ / ₂ "	11 ¹⁷ / ₃₂ "	14 ³ / ₄ "	13 ³¹ / ₃₂ "	18 ¹ / ₂ "	24 ¹³ / ₁₆ "	27 ³ / ₈ "	20 ³ / ₄ "	1 ¹¹ / ₁₆ "	1 ¹⁵ / ₁₆ "	2 ⁷ / ₁₆ "
SQAF-270	23 ¹ / ₂ "	⁷ / ₈ "	4 ¹ / ₂ "	12 ⁷ / ₈ "	16 ¹ / ₂ "	15 ³ / ₈ "	20 ¹ / ₄ "	27 ¹ / ₄ "	30 ¹ / ₂ "	22 ⁷ / ₈ "	2 ³ / ₁₆ "	2 ³ / ₁₆ "	2 ⁷ / ₁₆ "
SQAF-300	26 ¹ / ₈ "	⁷ / ₈ "	4 ¹ / ₂ "	14 ³ / ₁₆ "	18 ¹ / ₂ "	17 ³ / ₃₂ "	22 ¹ / ₄ "	30 ¹ / ₄ "	33 ¹¹ / ₁₆ "	25 ⁵ / ₁₆ "	2 ³ / ₁₆ "	2 ⁷ / ₁₆ "	2 ¹¹ / ₁₆ "

Model	X	Z			AA	CC note 3			DD	OP	RS	MML		
		Class II	Class IIP	Class III		Class II	Class IIP	Class III				Class II	Class IIP	Class III
SQAF-120	1 ¹ / ₈ "		¹ / ₄ "		13 ⁷ / ₁₆ "		29 ¹⁵ / ₁₆ "		12"	22 ¹ / ₂ "	24 ⁹ / ₁₆ "		19 ¹ / ₂ "	
SQAF-130	1 ¹ / ₈ "		¹ / ₄ "		15 ⁷ / ₁₆ "		31"		13 ¹ / ₄ "	24 ³ / ₄ "	26 ⁷ / ₈ "		19 ¹ / ₂ "	
SQAF-150	1 ¹ / ₂ "		³ / ₈ "		16 ⁹ / ₁₆ "		37 ¹ / ₂ "		14 ⁵ / ₈ "	27 ¹ / ₄ "	30 ¹ / ₁₆ "		24"	
SQAF-160	1 ¹ / ₂ "	³ / ₈ "	³ / ₈ "		18 ⁹ / ₁₆ "	38 ¹³ / ₁₆ "	38 ¹³ / ₁₆ "		16"	29 ³ / ₄ "	32 ¹⁵ / ₁₆ "	24"	24"	
SQAF-180	1 ¹ / ₂ "	³ / ₈ "	³ / ₈ "		20 ⁹ / ₁₆ "	40 ¹ / ₂ "	40 ¹ / ₂ "		17 ¹³ / ₁₆ "	32 ³ / ₄ "	36 ¹ / ₄ "	24 ¹ / ₂ "	24 ¹ / ₂ "	
SQAF-200	1 ¹ / ₂ "	³ / ₈ "	¹ / ₂ "	⁵ / ₈ "	22 ⁹ / ₁₆ "	42"	44"	46"	19 ⁷ / ₁₆ "	35 ⁷ / ₈ "	39 ⁵ / ₈ "	24 ⁵ / ₈ "	27 ³ / ₄ "	30 ⁵ / ₁₆ "
SQAF-220	1 ¹ / ₂ "	³ / ₈ "	¹ / ₂ "	⁵ / ₈ "	24 ⁹ / ₁₆ "	44"	46"	48"	21 ⁵ / ₈ "	39 ⁹ / ₁₆ "	43 ⁷ / ₈ "	24 ⁵ / ₈ "	27 ³ / ₄ "	30 ⁵ / ₁₆ "
SQAF-240	1 ¹ / ₂ "	³ / ₈ "	¹ / ₂ "	⁵ / ₈ "	27 ¹ / ₂ "	47 ¹⁵ / ₁₆ "	49 ¹⁵ / ₁₆ "	49 ¹⁵ / ₁₆ "	23 ¹³ / ₁₆ "	43 ⁵ / ₈ "	48 ¹ / ₈ "	27 ³ / ₄ "	30 ⁵ / ₁₆ "	30 ⁵ / ₁₆ "
SQAF-270	2"	¹ / ₂ "	¹ / ₂ "	⁵ / ₈ "	30 ¹ / ₂ "	53 ¹¹ / ₁₆ "	53 ¹¹ / ₁₆ "	56 ⁷ / ₁₆ "	26 ¹ / ₄ "	47 ¹ / ₂ "	53 ⁵ / ₈ "	30 ⁵ / ₁₆ "	30 ⁵ / ₁₆ "	32 ⁷ / ₈ "
SQAF-300	2"	¹ / ₂ "	¹ / ₂ "	⁵ / ₈ "	33 ¹ / ₂ "	56 ⁵ / ₁₆ "	56 ⁵ / ₁₆ "	59 ¹ / ₁₆ "	29 ³ / ₁₆ "	52 ¹ / ₂ "	59"	30 ⁵ / ₁₆ "	30 ⁵ / ₁₆ "	32 ⁷ / ₈ "

INLET AND OUTLET FLANGES



Optional Inlet Collar and Flange

Standard Outlet Flange

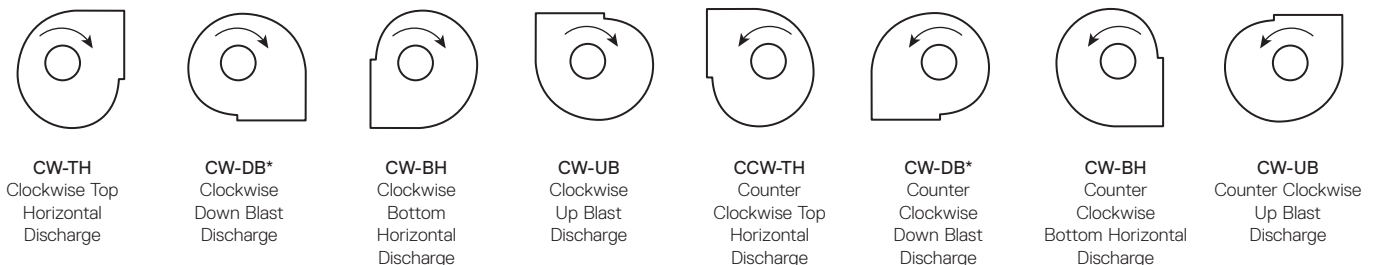
Note—Flanges will be drilled per these dimensions unless otherwise specified.

Dimensions shown are for 100% width housings. Consult Cincinnati Fan for reduced width outlet flange dimensions. Outlet flange standard on all models.

Model	Inlet Collar Only		Inlet Collar with Inlet Flange					Discharge Flange								
	C	AA	A	B	AA	CF	MM	D	E	F	G	H	K	X	DD	NN
SQAF-120	1 5/8"	13 7/16"	16 3/16"	15"	13 7/16"	3 3/16"	8	10 11/16"	12 15/16"	14 1/4"	7/16"	2	2	1 1/8"	12"	12
SQAF-130	1 5/8"	15 7/16"	18 3/16"	16 1/2"	15 7/16"	3 3/16"	8	11 3/4"	14"	15 1/2"	7/16"	2	2	1 1/8"	13 1/4"	12
SQAF-150	1 5/8"	16 9/16"	19 3/16"	18 1/8"	16 9/16"	3 1/4"	8	13 1/16"	16 1/16"	17 5/8"	5/8"	3	2	1 1/2"	14 5/8"	14
SQAF-160	1 5/8"	18 9/16"	21 3/16"	20 1/8"	18 9/16"	3 1/4"	8	14 3/8"	17 3/8"	19"	5/8"	3	3	1 1/2"	16"	16
SQAF-180	1 5/8"	20 9/16"	23 3/16"	20 1/4"	20 9/16"	3 1/4"	8	15 7/8"	18 7/8"	20 13/16"	5/8"	3	3	1 1/2"	17 13/16"	16
SQAF-200	1 5/8"	22 9/16"	25 3/16"	24 1/16"	22 9/16"	3 1/4"	16	17 3/8"	20 3/8"	22 7/16"	5/8"	4	3	1 1/2"	19 7/16"	18
SQAF-220	1 5/8"	24 9/16"	27 3/16"	26 1/8"	24 9/16"	3 1/4"	16	19 3/8"	22 3/8"	24 5/8"	5/8"	4	4	1 1/2"	21 5/8"	20
SQAF-240	2 1/8"	27 9/16"	31 3/16"	29"	27 9/16"	4 1/4"	16	21 5/16"	24 5/16"	26 13/16"	5/8"	5	4	1 1/2"	23 13/16"	22
SQAF-270	2 1/8"	30 9/16"	34 3/16"	32 3/16"	30 9/16"	4 1/4"	16	23 1/2"	27 1/2"	30 1/4"	7/8"	6	5	2"	26 1/4"	26
SQAF-300	2 1/8"	33 9/16"	37 3/16"	35 3/8"	33 9/16"	4 1/4"	16	26 1/8"	30 1/8"	33 3/16"	7/8"	6	6	2"	29 3/16"	28

Eight Rotation and Discharge Positions Available.

Discharges shown are determined by viewing fan from motor or drive side



SPX ENGINEERED AIR MOVEMENT

7697 SNIDER ROAD
MASON, OH 45040 USA
513 573 1000 | spxairmovement.com

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