

MODEL SQD

DIRECT DRIVE SQUARE INLINE CENTRIFUGAL DUCT FAN



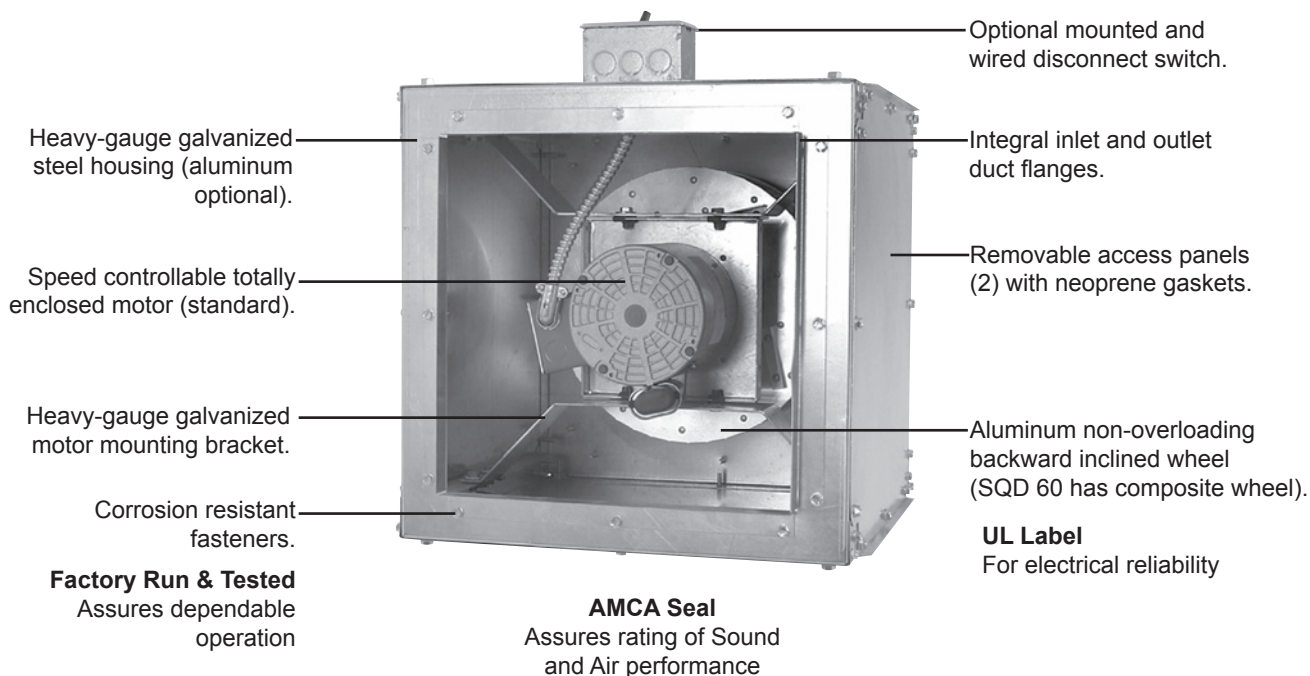
MODEL FEATURES

- Exhaust air up to 2,800 CFM in high static pressure applications up to 1" w.g.
- Direct drive units have low sound levels and quiet operation
- Ideal for applications where space is limited
- Non-overloading backward inclined wheel for efficiency at higher static pressures
- AMCA Air and Sound Licensed
- cULus 705 Listed

MODEL OVERVIEW

Model SQD fans are available in sizes 6 through 15, moving up to 2,800 CFM, with static pressure capabilities to 1". SQD units are the perfect selection for clean air applications where space is a leading consideration. The compact housing with removable access doors can be mounted in any orientation.

CONSTRUCTION FEATURES AND OPTIONS



QUICKSHIP

Model SQD is available in our Quickship program. Sizes 6-15 are available for next day, 3-day or 10-day shipping from stock.

2 year fan housing warranty, 1 year motor warranty

All specifications are subject to change without notice unless approved in submittal by JencoFan.



CONSTRUCTION/SPECIFICATION CHECKLIST

Blower/Housing

- Aluminum, non-overloading, backward inclined centrifugal wheel statically and dynamically balanced. SQD 60 has composite wheel.
- Deep spun venturi inlet.
- Heavy-gauge galvanized steel housing.
- Integral inlet and outlet duct collars.
- Universal mounting - horizontal, vertical, or any angle.
- Easy access to interior of unit with removable side panels with closed cell neoprene gasketing.
- Motor and wheel removable from unit without disconnecting duct.

Speed Controllable Motors

- Brands are nationally recognized and locally serviced.
- Standard motors are single speed, speed controllable and totally enclosed.
- All motors are rated for continuous duty.
- Disconnect is standard with totally enclosed motors.
- Motors ship mounted as standard.

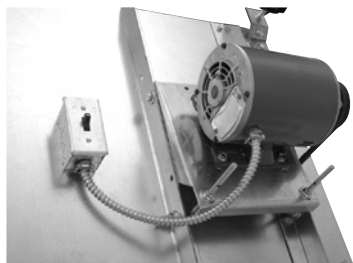
Certifications

- AMCA - the AMCA Seal on all units assures certified rating of air and sound performance.
- cULus - most models are available as listed by Underwriters Laboratories under Standard 705 when specified.

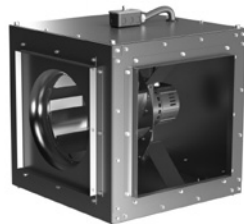


OPTIONS/ACCESSORIES

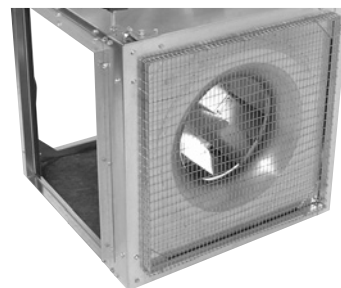
Mounted and Wired Disconnect



Side Discharge



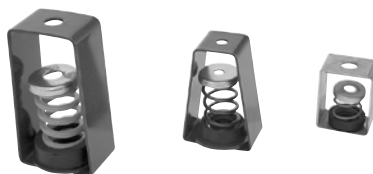
Inlet/Outlet Guard



**Hanging Bracket/
Mounting Foot with
Hanging Spring Isolator**



Hanging Spring Isolators



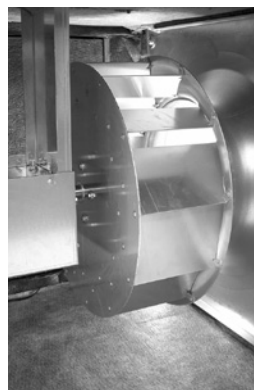
**Hanging Rubber in
Shear Isolators**



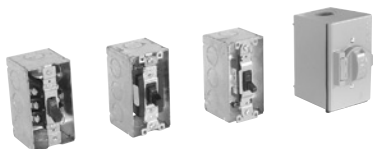
Backdraft Damper



Insulated Housing



Assorted Disconnects



Speed Controls



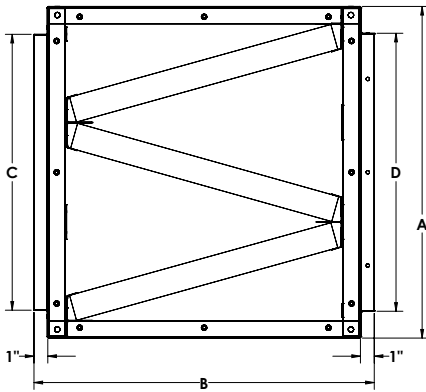


FILTER BOX OPTIONS



Features

- Designed for use with SQD Fans
- Designed to handle 1" or 2" filters
- Galvanized or aluminum construction
- Standard filter is washable aluminum
- MERV 7 (1") or MERV 8 (2") disposable pleated filters available by special quote
- Removable side panels for easy access to filters



Dimensions - Filter Box with 1" Aluminum Filters

Fan Size	Filter Box Dimensions				Avg. Ship Wgt. (lbs)		No. of Filters	1" Filter Nominal Size
	A	B	C	D	Galv.	Alum.		
06	12	17-3/16	8-7/8	9	16	8	1	11x14x1
07-08	25	25	11-7/8	12	28	15	2	15x20x1
10	18	24-1/2	13-7/8	14	35	17	2	16x20x1
12	22	29-1/8	15-7/8	16	48	24	2	20x25x1
15	24	24-5/8	19-7/8	20	49	24	3	20x25x1

Dimensions - Filter Box with 2" Aluminum Filters

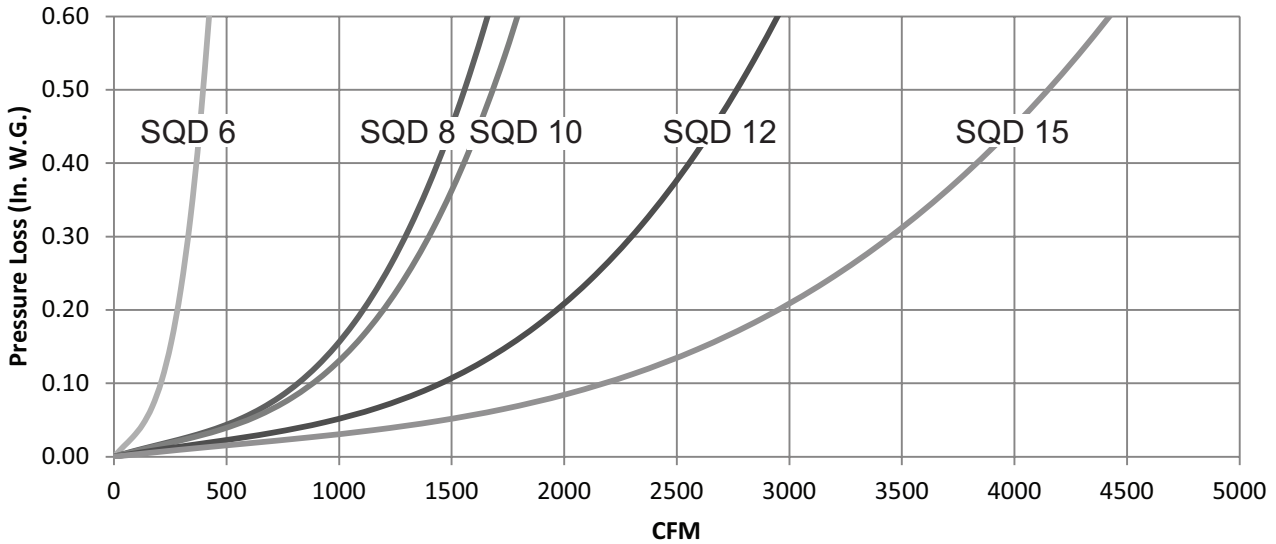
Fan Size	Filter Box Dimensions				Avg. Ship Wgt. (lbs)		No. of Filters	2" Filter Nominal Size
	A	B	C	D	Galv.	Alum.		
06	12	17-3/16	8-7/8	9	17	9	1	11x14x2
07-08	25	25	11-7/8	12	29	16	2	15x20x2
10	18	24-1/2	13-7/8	14	37	19	2	16x20x2
12	22	29-1/8	15-7/8	16	52	27	2	20x25x2
15	24	24-5/8	19-7/8	20	51	26	3	20x25x2



FILTER BOX OPTIONS Cont.

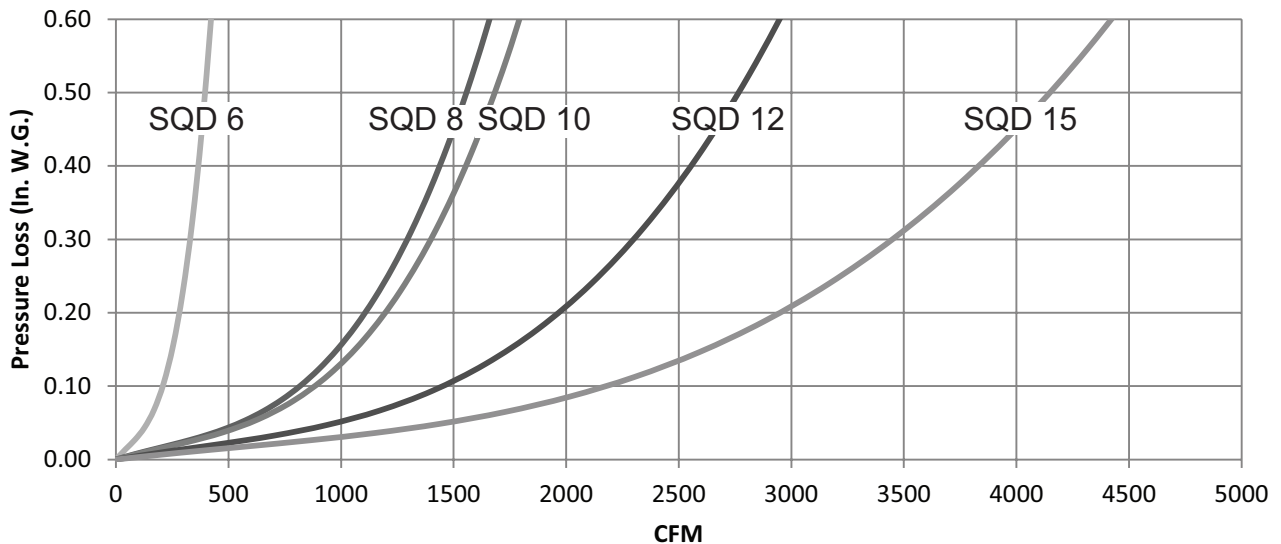
PRESSURE LOSS GUIDE FOR 1" FILTER BOX

Use the estimated pressure drop graphs to help select the proper fan that will deliver the desired airflow. Enter the graph from the bottom at the specified CFM and move vertically upward to the fan curve for the desired size, then horizontally to the left and read the estimated static pressure drop resulting from these typical accessory packages. Add the accessory pressure loss to the system (or building) design static pressure loss to obtain the total static pressure loss to be used for the proper fan selection.



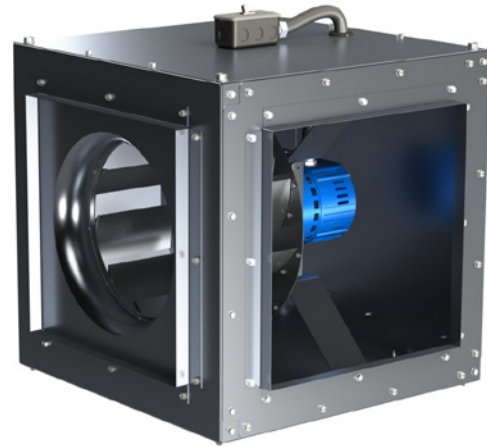
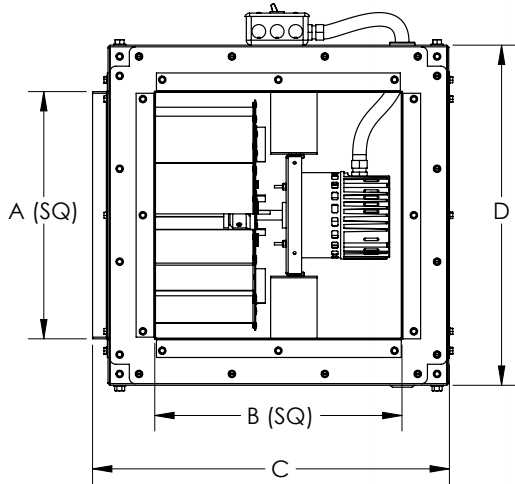
PRESSURE LOSS GUIDE FOR 2" FILTER BOX

Use the estimated pressure drop graphs to help select the proper fan that will deliver the desired airflow. Enter the graph from the bottom at the specified CFM and move vertically upward to the fan curve for the desired size, then horizontally to the left and read the estimated static pressure drop resulting from these typical accessory packages. Add the accessory pressure loss to the system (or building) design static pressure loss to obtain the total static pressure loss to be used for the proper fan selection.





SIDE DISCHARGE OPTION



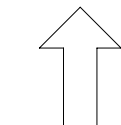
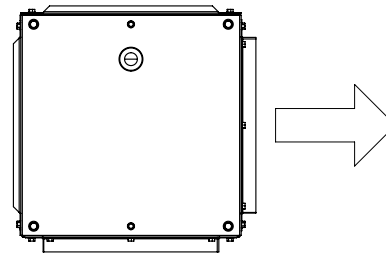
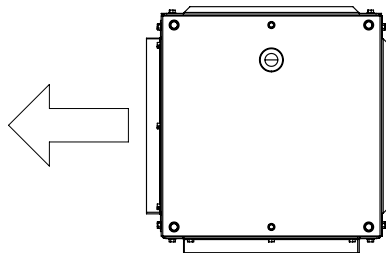
Side Discharge Dimensions

MODEL	A (IN)	B (IN)	C (IN)	D (IN)
SQD 60	8-7/8	8-7/8	13-3/4	13
SQD 610	8-7/8	8-7/8	13-3/4	13
SQD 8125	11-7/8	17-7/8	16-3/4	16
SQD 825	11-7/8	17-7/8	16-3/4	16
SQD 1025	13-7/8	13-7/8	19-3/4	19
SQD 1050	13-7/8	13-7/8	19-3/4	19
SQD 1225	15-7/8	15-7/8	23	23
SQD 1250	15-7/8	15-7/8	23	23
SQD 1550	19-7/8	19-7/8	28-3/8	28

Side Discharge Directions

SIDE DISCHARGE LEFT

SIDE DISCHARGE RIGHT

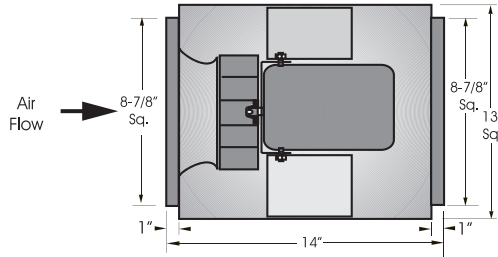


AIRFLOW

AIRFLOW



PERFORMANCE/DIMENSIONS



Unit Specifications

- 18 Ga. galvanized housing.
- Approximate unit weight 30 lbs.
- Aluminum backward inclined wheel. (SQD 60 has composite wheel)
- Removable access panels.
- Integral inlet & outlet duct collars.
- AMCA Licensed Air & Sound.
- Disconnect switch.
- One (1) year warranty.
- Universal/any angle mounting.

SQD 60

Motor HP	CFM / Sones @ Static Pressure								RPM
	0	1/8	1/4	3/8	1/2	5/8	3/4	1	
100 WATT 2700 RPM	151	93	-	-	-	-	-	-	950
	1.9	1.0	-	-	-	-	-	-	
	199	162	102	-	-	-	-	-	1250
	3.4	2.5	2.2	-	-	-	-	-	
.95 Max Amps @ 115/60/1	238	208	174	116	-	-	-	-	1500
	4.6	3.7	3.5	3.4	-	-	-	-	
	294	269	245	215	170	130	-	-	1850
	6.6	5.6	5.4	5.3	5.2	5.1	-	-	
	334	312	290	268	240	201	158	-	2100
	8.1	7.1	6.8	6.7	6.6	6.5	6.5	-	
	382	362	343	324	304	281	250	176	2400
	10.1	9.2	8.6	8.5	8.5	8.4	8.3	8.3	
	424	406	389	372	355	337	316	257	2700*
	12.0	11.1	10.4	10.3	10.2	10.2	10.1	10.0	

SQD 610

Motor HP	CFM / BHP / Sones @ Static Pressure					RPM
	0	1/8	1/4	3/8	1/2	
1/10 HP 1550 RPM	198	109	-	-	-	950
	.01/2.3	.01/1.8	-	-	-	
	229	158	-	-	-	1100
	.01/3.3	.01/3.0	-	-	-	
	260	200	115	-	-	1250
	.01/4.8	.01/4.6	.01/4.1	-	-	
	291	239	174	-	-	1400
	.01/5.8	.01/5.6	.01/5.2	-	-	
	322	276	222	150	-	1550
	.02/6.8	.02/6.7	.02/6.3	.02/5.9	-	
	343	300	251	190	-	1650
	.02/7.5	.02/7.3	.02/7.1	.02/6.7	-	
	357	316	269	214	137	1710*
	.03/8.0	.03/7.8	.03/7.6	.02/7.2	.02/6.8	



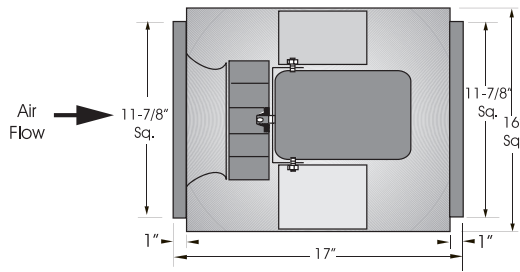
JencoFan, Div. of Soler & Palau Ventilation Group, certifies that the Models SQD shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



* Base Unit-AMCA seal for sound Rating does not apply to units with speed control installed.
 + RPM range capable with solid state speed control.
 Speed (RPM) shown is nominal. Performance is based on actual speed of test.

Performance certified is for installation type B - free inlet, ducted outlet.
 Power Ratings (BHP) does not include drive losses.
 Performance ratings do not include the effects of appurtenances in the airstream.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A - free inlet fan sone levels.



Unit Specifications

- 18 Ga. galvanized housing.
- Approximate unit weight 60 lbs.
- Aluminum backward inclined wheel.
- Removable access panels.
- Integral inlet & outlet duct collars.
- AMCA Licensed Air & Sound.
- Disconnect switch.
- One (1) year warranty.
- Universal/any angle mounting.

SQD 8125

Motor HP	CFM / BHP / Sones @ Static Pressure			RPM
	0	1/8	1/4	
1/25 HP 1050 RPM	329	149	-	700
	.01/1.6	.01/1.0	-	
	376	235	-	800
	.01/2.5	.02/1.8	-	
	423	304	-	900
	.02/3.3	.02/2.7	-	
	446	336	164	950
	.03/3.8	.03/3.1	.02/2.7	
	470	336	221	1000
	.03/4.2	.03/3.6	.03/3.1	
	493	396	267	1050
	.03/4.7	.03/4.1	.03/3.6	
	503	407	284	1070*
	.04/4.9	.04/4.3	.04/3.8	

SQD 825

Motor HP	CFM / BHP / Sones @ Static Pressure							RPM
	0	1/8	1/4	3/8	1/2	5/8	3/4	
1/4 HP 1625 RPM	352	202	-	-	-	-	-	750
	.01/2.2	.01/1.6	-	-	-	-	-	
	423	308	-	-	-	-	-	900
	.03/3.4	.03/2.8	-	-	-	-	-	
	493	398	276	-	-	-	-	1050
	.04/4.7	.04/4.1	.04/3.8	-	-	-	-	
	564	482	388	259	-	-	-	1200
	.06/6.4	.06/5.7	.06/5.4	.06/5.1	-	-	-	
	658	588	514	427	313	-	-	1400
	.09/8.3	.09/7.6	.09/7.2	.09/7.0	.09/6.7	-	-	
	728	665	600	528	444	335	-	1550
	.13/9.6	.13/9.0	.13/8.5	.13/8.3	.13/8.0	.13/7.8	-	
	820	763	706	646	580	504	412	1740*
	.18/11.7	.18/11.1	.18/10.5	.18/10.3	.18/10.0	.18/9.8	.18/9.6	

* Base Unit-AMCA seal for sound Rating does not apply to units with speed control installed.
 + RPM range capable with solid state speed control.
 Speed (RPM) shown is nominal. Performance is based on actual speed of test.

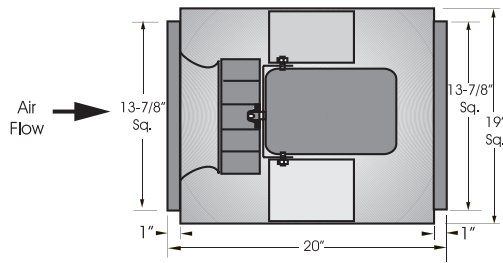
Performance certified is for installation type B - free inlet, ducted outlet.
 Power Ratings (BHP) does not include drive losses.
 Performance ratings do not include the effects of appurtenances in the airstream.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A - free inlet fan sone levels.



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Unit Specifications

- 18 Ga. galvanized housing.
• Approximate unit weight 75 lbs.
• Aluminum backward inclined wheel.
• Removable access panels.
• Integral inlet & outlet duct collars.
• AMCA Licensed Air & Sound.
• Disconnect switch.
• One (1) year warranty.
• Universal/any angle mounting.

SQD 1025

Table with 7 columns: Motor HP, CFM / BHP / Sones @ Static Pressure (0, 1/8, 1/4, 3/8, 1/2), RPM. Rows include 1/4 HP at 1075 RPM and 1150* RPM.

SQD 1050

Table with 9 columns: Motor HP, CFM / BHP / Sones @ Static Pressure (0, 1/8, 1/4, 3/8, 1/2, 5/8, 3/4, 1), RPM. Rows include 1/2 HP at 1625 RPM and 1710* RPM.

* Base Unit-AMCA seal for sound Rating does not apply to units with speed control installed.
+ RPM range capable with solid state speed control.
Speed (RPM) shown is nominal. Performance is based on actual speed of test.

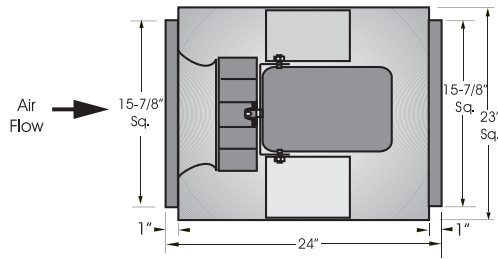
Performance certified is for installation type B - free inlet, ducted outlet.
Power Ratings (BHP) does not include drive losses.
Performance ratings do not include the effects of appurtenances in the airstream.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A - free inlet fan sone levels.



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Unit Specifications

- 18 Ga. galvanized housing.
- Approximate unit weight 90 lbs.
- Aluminum backward inclined wheel.
- Removable access panels.
- Integral inlet & outlet duct collars.
- AMCA Licensed Air & Sound.
- Disconnect switch.
- One (1) year warranty.
- Universal/any angle mounting.

SQD 1225

Motor HP	CFM / BHP / Sones @ Static Pressure					RPM
	0	1/8	1/4	3/8	1/2	
1/4 HP 1075 RPM	920	599	-	-	-	650
	.04/3.7	.04/3.0	-	-	-	
	1132	878	595	-	-	800
	.07/5.7	.07/5.0	.07/4.4	-	-	
	1273	1051	809	529	-	900
	.10/7.2	.10/6.5	.10/6.0	.09/5.2	-	
	1415	1216	1003	774	-	1000
	.13/8.8	.13/8.1	.13/7.6	.13/7.0	-	
	1486	1297	1096	883	640	1050
	.15/9.6	.15/9.0	.16/8.4	.15/7.9	.15/7.2	
1557	1377	1187	986	767	1100	
.17/10.5	.18/9.9	.18/9.3	.18/8.8	.17/8.1		
1586	1410	1224	1028	817	1120*	
.18/10.9	.19/10.3	.19/9.7	.19/9.2	.19/8.5		

SQD 1250

Motor HP	CFM / BHP / Sones @ Static Pressure								RPM
	0	1/8	1/4	3/8	1/2	5/8	3/4	1	
1/2 HP 1625 RPM	867	500	-	-	-	-	-	-	600
	.02/3.0	.03/2.4	-	-	-	-	-	-	
	1156	882	592	-	-	-	-	-	800
	.06/5.4	.06/4.8	.06/4.4	-	-	-	-	-	
	1373	1129	920	654	-	-	-	-	950
	.10/7.3	.11/6.8	.11/6.4	.10/6.1	-	-	-	-	
	1517	1287	1106	890	651	-	-	-	1050
	.13/8.7	.14/8.2	.15/7.8	.15/7.4	.14/7.2	-	-	-	
	1878	1673	1526	1380	1215	1020	825	-	1300
	.25/12.7	.26/12.2	.27/11.9	.28/11.5	.28/11.2	.28/10.8	.26/10.5	-	
2168	1975	1844	1719	1591	1451	1292	950	1500	
.39/16.4	.40/16.0	.41/15.6	.42/15.2	.43/14.9	.44/14.6	.43/14.3	.40/13.7		
2344	2159	2033	1918	1802	1680	1548	1237	1620*	
.49/18.4	.50/18.0	.51/17.7	.53/17.3	.54/16.9	.55/16.7	.55/16.4	.54/15.8		

* Base Unit-AMCA seal for sound Rating does not apply to units with speed control installed.
 + RPM range capable with solid state speed control.
 Speed (RPM) shown is nominal. Performance is based on actual speed of test.

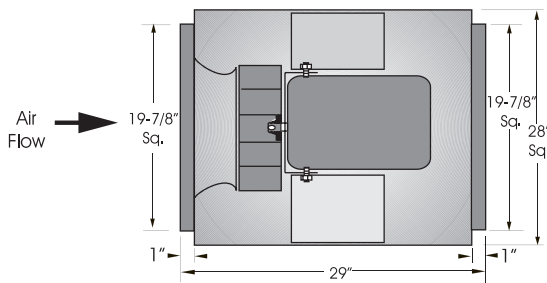
Performance certified is for installation type B - free inlet, ducted outlet.
 Power Ratings (BHP) does not include drive losses.
 Performance ratings do not include the effects of appurtenances in the airstream.

The sound ratings shown are loudness values in fan sones @ 5' (1.5m) in a hemispherical free field calculated per AMCA Standard 301. Values shown are for installation type A - free inlet fan sone levels.



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Unit Specifications

- 18 Ga. galvanized housing.
- Approximate unit weight 120 lbs.
- Aluminum backward inclined wheel.
- Removable access panels.
- Integral inlet & outlet duct collars.
- AMCA Licensed Air & Sound.
- Disconnect switch.
- One (1) year warranty.
- Universal/any angle mounting.

SQD 1550

Motor HP	CFM / BHP / Sones @ Static Pressure							RPM
	0	1/8	1/4	3/8	1/2	5/8	3/4	
1/2 HP 1075 RPM	1348	847	-	-	-	-	-	500
	.05/3.8	.05/3.1	-	-	-	-	-	
	1618	1187	797	-	-	-	-	600
	.09/5.5	.09/4.8	.08/4.3	-	-	-	-	
	1887	1517	1174	793	-	-	-	700
	.14/7.2	.14/6.6	.14/6.1	.12/5.8	-	-	-	
	2157	1839	1515	1233	833	-	-	800
	.22/9.2	.22/8.6	.21/8.0	.20/7.7	.18/7.4	-	-	
	2426	2152	1849	1585	1335	994	-	900
	.31/11.5	.31/10.8	.31/10.2	.30/9.8	.29/9.5	.26/9.2	-	
2696	2456	2178	1924	1695	1469	1187	1000	
.42/14.0	.42/13.4	.42/12.7	.42/12.2	.41/11.8	.39/11.5	.37/11.2		
2879	2658	2399	2151	1928	1719	1501	1060*	
.51/15.8	.51/15.2	.51/14.6	.51/14.1	.51/13.7	.49/13.3	.47/13.0		

* Base Unit-AMCA seal for sound Rating does not apply to units with speed control installed.
 + RPM range capable with solid state speed control.
 Speed (RPM) shown is nominal. Performance is based on actual speed of test.

Performance certified is for installation type B - free inlet, ducted outlet.
 Power Ratings (BHP) does not include drive losses.
 Performance ratings do not include the effects of appurtenances in the airstream.

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