SQ SQ



UL/cUL Listed 705 is standard on In Stock models.

Model SQ and BSQ are AMCA Licensed for Sound and Air Performance

Model	Best Available Program
SQ-75 through 120 and 140	
BSQ-70 through 120, 140 through 180 and 240	In Stock
SQ-60 through 70, 130 thru 160	
High Pressure SQ-130HP through 160HP	1 Day
BSQ-130 and 200	
High Pressure BSQ-130HP through 240HP	
BSQ-300 through 420	
High Pressure BSQ-300HP and 360HP	3 Days

Model SQ Direct Drive and BSQ Belt Drive

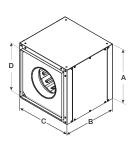
Centrifugal inline fans are designed for clean air exhaust or supply applications.

Quick Delivery / Quick Build Performance

SQ capacities range from 80 to 5,025 cfm and 1.75 in. wg of static pressure. BSQ capacities range from 60 to 26,600 cfm and 4 in. wg of static pressure.

Standard Construction		SQ	BSQ
Housing - galvanized			
Wheel - backward-inclined, aluminum			
Access panel - bolted, removable			
Corrosion-resistant fasteners			
NEMA-1 disconnect switch			
Ball bearing motor - 1/4 hp and larger			
Three speed motor - sizes 60 through 95			
Adjustable motor plate			
Flanges - inlet and outlet			
Adjustable motor pulley			
Options and Accessories	Stock	SQ	BSQ
Vari-Green® motor - 80% turndown, 85% efficient Available as standard on select sizes	✓	-	
Damper	✓		
Aluminum housing			
Motor cover			
Guards - inlet, outlet			
Speed control	✓		
Isolators - external	✓		
Insulation - housing and motor cover			
Filter box* - slide out			-
NEMA rated disconnect switch			•
Dual drives			
Relubricatable bearings			
Multiple discharge positions*			
Decorative or protective powder coating			
UL/cUL Listed Power Ventilators			-

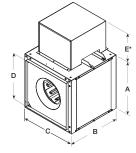
^{*}see page 31 for additional information



Dimensions for SQ

Model Size	A & C	В	D
60, 65, 70, 75	12	13	87/8
80, 85, 90 95	15	16	11%
97, 98, 99	15	21	11%
100	17	21	131/8
120	19	21	151//8
130, 130 HP	21	21	171/8
140, 140 HP	23	22	191//8
160, 160 HP	26	26	22 1/8

All dimensions are in inches.



Dimensions for BSQ

Model Size	A & C	В	ט	H*
70, 80, 90	171/8	21	11%	131/4
100	171/8	21	13%	131/4
120	191/8	21	15%	131/4
130, 130 HP	211/8	21	17%	131/4
140, 140 HP	231/8	22	19%	131/4
160, 160 HP	261/8	26	22 1/8	131/4
180, 180 HP	271/8	28	23 1/8	131/4
200, 200 HP	311/8	32	271//8	16
240, 240 HP	381/8	34	34%	16
300, 300 HP	46	38	41%	18
360, 360 HP	52	42	471/8	18
420	58	50	53%	18

All dimensions are in inches.

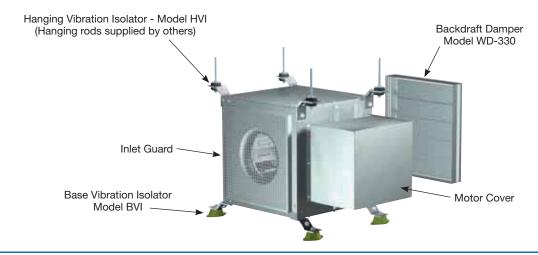
*Dimension may be greater depending on motor



Select sizes and models with the Vari-Green® motor are available in stock.



SQ and BSQ Options and Accessories

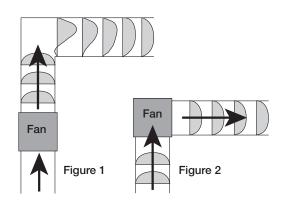


Side Discharge

The side discharge option provides several advantages from removing a system effect problem, to increasing performance and even reducing installation labor.

The most notable is reducing system effect. Refer to Figure 1. It shows the air being discharged into the corner. It will take several duct lengths before the airflow becomes laminar or smooth again after making the turn.

In Figure 2, the fan is placed in the corner using a side discharge. In this configuration the airflow pattern at discharge is smooth and supports a more predictable system. Remember the duct length on the discharge side should be approximately two to three wheel diameters to achieve catalog performance.



Multiple Discharge Positions

BCF fans are available with either top horizontal or upblast discharge positions.

BDF fans have been designed for horizontal mounting and are standard with a bottom horizontal discharge. Optional top horizontal discharge is also available.

SQ and BSQ fans are available with right side discharge, left side discharge, inline discharge positions, or a combination of right, left and inline positions.

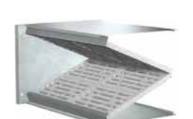




Filter Box

Filter boxes incorporate a V-bank design constructed of galvanized steel. Filters are available in 1 or 2 inch throwaway (pleated) or permanent (washable aluminum mesh). Side access panels are standard for easy maintenance.

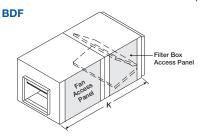




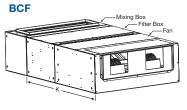
Double V-Bank Filter



All dimensions are in inches. The K dimension equals the length of fan and filter box combined.

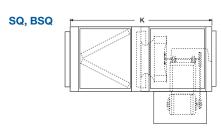


Model Size	K	Filter Size	No. of Filters
80	49¾	16 x 20	2
90	54%	20 x 25	2
100	51%	20 x 20	2
120	63%16	12 x 25	4
150	621/16	16 x 20	8
180	75%	20 x 25	6
200	851/4	16 x 25	12



Model Size			Filter Size		No. of Filters	
Single Fan	Double Fan	K	Single Fan	Double Fan	Single Fan	Double Fan
106	206	45½	16 x 20	20 x 20	1	1
107	207	52	16 x 20	16 x 20	1	2
108	208	56	16 x 20	16 x 20	2	4
110	210	61	20 x 20	20 x 20	2	4
112	212	65	16 x 20	20 x 25	4	4

For slide-out filter box information, refer to BCF catalog.



SQ					
Model Size	K	Filter Size	No. of Filters		
60, 65, 70, 75	221/8	10 x 12	1		
80, 95, 90, 95	45%	14 x 25	1		
97, 98, 99	50%	14 x 25	1		
100	471/4	16 x 20	2		
120	523/16	16 x 25	2		
130, 130HP	46%	20 x 20	2		
140, 140HP	52%	20 x 25	2		
160, 160HP	51%	20 x 20	4		

BSQ					
Model Size	К	Filter Size	No. of Filters		
70, 80, 90	50%	14 x 25	1		
100	471/4	16 x 20	2		
120	523/16	16 x 25	2		
130, 130HP	46%	20 x 20	2		
140, 140HP	523/8	20 x 25	2		
160, 160HP	51%	20 x 20	4		
180, 180HP	551/16	20 x 25	4		
000 000110	6611/16	12 x 25	3		
200, 200HP		16 x 25	3		
040 040110	607/	20 x 25	4		
240, 240HP	68%	16 x 25	4		
300, 300HP	721/8	20 x 25	8		
360, 360HP	791/4	16 x 25	10		
		20 x 25	5		
400	001/	16 x 25	5		
420	931/8	20 x 25	10		

Insulated Housing

The interior of the fan housing and filter box can be lined with a fiberglass duct liner for noise reduction and condensation control. The duct liner can be utilized to reduce radiated noise from inline fan housings. It is recommended for applications when fans are placed in acoustically sensitive locations. The duct liner also reduces the noise radiating from the inlet and outlet of the fan.



