

# Inline, Ceiling and Sidewall Exhaust

SP



UL/cUL 507 - E33599 - Ceiling Exhaust Fans  
 Model SP-A390 and smaller and SP-B are  
 UL/cUL Listed for above bathtub/shower with  
 GFCI branch protected circuit.  
 Model SP-C is UL/cUL Listed



UL/cUL Listed 507 is standard on In Stock models.



Greenheck Fan Corporation certifies that the Model SP shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

CSP



UL/cUL 507 - Cabinet Fans - E33599  
 Model CSP-A and CSP-B are UL/cUL Listed.



UL/cUL Listed 507 is standard on In Stock models.



Greenheck Fan Corporation certifies that the Model CSP shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

## Model SP and CSP Direct Drive

Centrifugal ceiling and inline fans are designed for clean air applications where low sound levels are desired.

Standard Construction	SP Ceiling				CSP Inline	
	A	B	C	VG	A	B
Housing - galvanized steel	■	■	■	■	■	■
Housing - low profile		■	■			■
Housing - insulated	■				■	
Wheel - forward-curved	■	■	■	■	■	■
Access panel	■	■	■	■	■	■
Electrical disconnect	■	■	■	■	■	■
Electrical knockouts	■	■	■	■	■	■
Electrical junction box	■	■		■	■	■
Mounting brackets	■	■	■	■	■	■
Backdraft damper	■	■	■	■	■	■
Flanges - inlet and outlet					■	■
Designer grille - up through size 390	■	■				
Aluminum grille - sizes 410 and larger	■	■				
Grille assembly - SP80 and 110-VG only				■		
Lighted grille assembly - SP-80L and 110L-VG only				■		

Options and Accessories	Stock	SP Ceiling				CSP Inline	
		A	B	C	VG	A	B
Discharge accessory - transitions <i>Available as standard on select sizes</i>	✓	■	■		■	■	■
Discharge accessories - roof, wall	✓	■	■	■	■	■	■
Electrical accessories - speed control, motion detector, time delay	✓	■	■	■		■	■
Transformer	✓	■	■	■		■	■
Switches - 1 or 2 function		■	■	■	■	■	■
Firestat	✓	■	■	■		■	■
Isolators - hanging	✓	■	■			■	■
Grille - decorative, stainless steel, aluminum	✓	■	■				
Lighted grille - SP-A, sizes 50 thru 390 SP-B, sizes 50 thru 200 - Bulbs - incandescent, compact fluorescent - Lens - frosted, prismatic			■		■		
Filters	✓	■	■				
Ceiling radiation damper	✓	■	■		■		
Contractor 4 Packs - housing and motor packs separate	✓		■				
Motor - 50 or 60 Hz ( <b>select sizes</b> ) - 115 or 277 volt ( <b>select sizes</b> )			■	■		■	■

Model	Best Available Program
SP-C50 SP-B50 through B200 SP-A50 through A1550 SP-80-VG, SP-80L-VG SP-110-VG, SP-110L-VG	In Stock
CSP-B110 through B200 CSP-A110 through A1550	In Stock
CSP-A1750 through A3600	1 Day

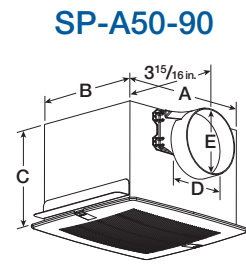
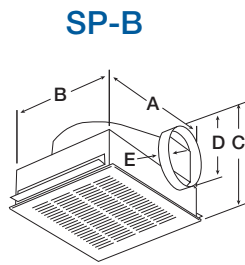
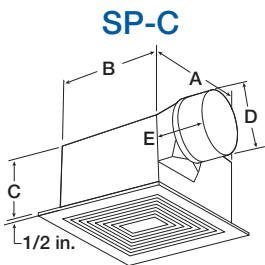
Best Available are 115 volt.



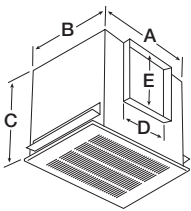
VARI GREEN Motor

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

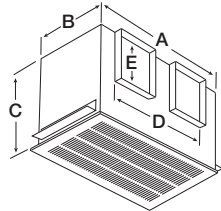




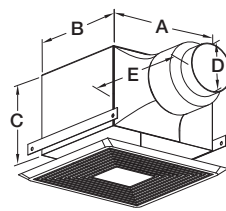
SP-A110 thru 510  
SP-A710 & 780



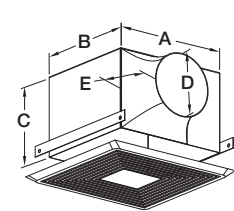
SP-A700,  
SP-A900 thru 1550



SP-80, 80L-VG



SP-110, 110L-VG



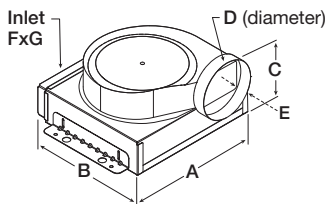
### Dimensions for SP

Model Size	A	B	C	Outlet		Grille Size*
				D	E	
SP-C50	7½	7½	3⅝	3	1⅝	9¼ x 9
SP-B50, SP-B70, SP-B80, SP-B90, SP-B110, SP-B150, SP-B200	13⅝	11½	7	6	1¼	14⅞ x 13¼
SP-A50, SP-A70, SP-A90	13¼	10⅝	9	6	6	14⅞ x 13¼
SP-A110, SP-A125, SP-A190	13¼	10⅝	9	8	6	14⅞ x 13¼
SP-A200, SP-A250, SP-A290, SP-A390	14	11⅞	11¼	8	8	14⅞ x 13¼
SP-A410, SP-A510	18	14⅜	14½	8	8	19⅝ x 16⅝
SP-A700	23⅝	11⅝	11⅝	19½	8	25⅝ x 13½
SP-A710, SP-A780	18	14⅜	14½	10	8	19⅝ x 16⅝
SP-A900, SP-A1050, SP-A1410, SP-A1550	23¼	14⅜	14½	18¼	8	25 x 16⅝
SP-80-VG, SP-80L-VG	10½	11¼	7⅝	6	8½	13 x 13¼
SP-110-VG, SP-110L-VG	10½	11¼	7⅝	6	4	13 x 13¼

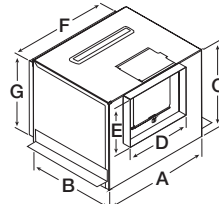
All dimensions are in inches.

\*Grille dimensions are for the designer grille except on model SP-C50 where the dimensions are shown for the decorative grille and the SP-VG models where the dimensions are for the grille assembly.

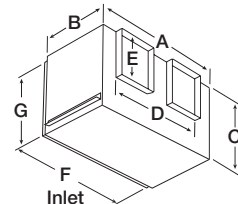
### CSP-B110-200



### CSP-A110-510



### CSP-A700-3600



### Dimensions for CSP

Model Size	A	B	C	D	E	F	G
CSP-B110, CSP-B150, CSP-B200	13⅝	11½	7	6	1¼	13½	3¼
CSP-A110, CSP-A125, CSP-A190	13¼	10⅝	9	8	6	12	9¼
CSP-A200, CSP-A250, CSP-A290, CSP-A390	14	11⅞	11¼	8	8	12⅝	10
CSP-A410, CSP-A510	18	14⅜	14½	8	8	16⅝	13¼
CSP-A700	23⅝	11⅝	11⅝	19½	8	22⅝	10½
CSP-A710, CSP-A780	18	14⅜	14½	10	8	16⅝	13¼
CSP-A900, CSP-A1050, CSP-A1410, CSP-A1550	23¼	14⅜	14½	18¼	8	22⅝	13¼
CSP-A1750, CSP-A2150	35	14¾	14¾	28	6	32¾	13
CSP-A3600	45½	16½	16½	40	11	43¼	14⅝

All dimensions are in inches.

# Performance for SP



Model Size	Energy Star Qualified	RPM	*Amps	*Watts	Sones @ 0 in.	CFM / Static Pressure in inches wg										Quick Build Best Available	In Stock
						0	.1	.125	.25	.375	.5	.625	.75	1			
SP-C50		1680	0.80	46.0	3.0	52	49	49	47	44	38	29			1 Day	SP-C50-QD	
SP-B50	■	625	0.50	37.8	1.2	67	54	51	40	29					1 Day	SP-B50-QD	
SP-B70	■	675	0.53	45.1	1.2	77	71	68	57	49	39				1 Day	SP-B70-QD	
SP-B80	■	900	0.60	54.3	2.0	87	80	78	68	61	54	44	30		1 Day	SP-B80-QD	
SP-B90	■	700	0.65	49.7	1.5	101	89	88	75	59	45	30			1 Day	SP-B90-QD	
SP-B110		950	1.14	80.2	1.5	133	114	110	97	95	94	91	85	51	1 Day	SP-B110-QD	
SP-B150		1050	1.70	128	2.5	160	156	155	154	152	149	147	138	92	1 Day	SP-B150-QD	
SP-B200		1100	2.20	172	3.5	197	195	194	191	187	184	181	166	128	1 Day	SP-B200-QD	
SP-A50	■	700	0.31	18.3	0.5	76	51	48	31						1 Day	SP-A50-QD	
SP-A70	■	850	0.27	20.2	0.8	83	70	67	42						1 Day	SP-A70-QD	
SP-A90	■	900	0.34	29.4	0.8	99	88	84	61	25					1 Day	SP-A90-QD	
SP-A110	■	950	0.58	48.7	0.8	119	110	106	88						1 Day	SP-A110-QD	
SP-A125	■	1100	0.62	52.5	0.9	135	123	121	104						1 Day	SP-A125-QD	
SP-A190	■	1400	1.30	113	2.5	216	197	192	167	133					1 Day	SP-A190-QD	
SP-A200	■	900	0.43	48.2	1.4	247	225	220	196	172	142	105	67		1 Day	SP-A200-QD	
SP-A250	■	1000	0.77	83.1	2.5	272	251	246	227	210	185	157	119		1 Day	SP-A250-QD	
SP-A290	■	1050	0.72	80.7	2.5	315	293	287	257	231	207	175	124		1 Day	SP-A290-QD	
SP-A390		1350	1.34	135	4.5	410	395	391	368	345	325	307	279		1 Day	SP-A390-QD	
SP-A410	■	1000	1.74	121	3.5	443	413	405	351	306					1 Day	SP-A410-QD	
SP-A510		1070	3.30	224	5.0	557	512	501	439	392	325				1 Day	SP-A510-QD	
SP-A700		1100	3.20	350	5.0	757	730	723	700	679	649	613	560	396	1 Day	SP-A700-QD	
SP-A710		1080	4.40	285	6.0	752	714	701	653	588	486	320			1 Day	SP-A710-QD	
SP-A780		1600	3.30	348	8.5	812	782	775	741	704	665	625	581		1 Day	SP-A780-QD	
SP-A900		950	4.00	285	4.0	955	907	896	841	773	701				1 Day	SP-A900-QD	
SP-A1050		1095	6.30	420	6.0	1125	1059	1043	964	885	796	662			1 Day	SP-A1050-QD	
SP-A1410		1450	7.40	786	10.0	1455	1415	1404	1353	1307	1262	1218	1174		1 Day	SP-A1410-QD	
SP-A1550		1610	8.60	818	10.5	1607	1558	1558	1506	1449	1407	1369	1323		1 Day	SP-A1550-QD	
SP-80-VG	■	935	0.10	6.1	<0.3	80	80	80	80	78	64	37			1 Day	SP-80-VG-QD	
SP-80L-VG	■	980	0.80	6.7	<0.3	80	80	80	79	79	70	37			1 Day	SP-80L-VG-QD	
SP-110-VG	■	940	0.20	8.4	<0.3	110	110	110	109	100	62	28			1 Day	SP-110-VG-QD	
SP-110L-VG	■	980	0.90	9.3	0.3	110	110	110	110	93	57	22			1 Day	SP-110L-VG-QD	

\*Amp and watt draw are approximate and may vary based on motor manufacturer.

Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings include the effects of an inlet grille and backdraft damper. Speed (rpm) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in spherical fan sones at 5 ft. (1.5 m) in a spherical free field calculated per Annex B of AMCA 311. Values are for installation type B: free inlet spherical sone levels. Ratings are based on 10 ft. of insulated duct.

Products that earn the ENERGY STAR® prevent greenhouse gas emissions by meeting strict energy efficiency guidelines set by the U.S. Environmental Protection Agency and the U.S. Department of Energy.



Fans that are ENERGY STAR® qualified include:

- SP-B50, 70, 80 and 90
- SP-A50, 70, 90, 110, 125, 190, 200, 250, 290 and 410
- SP-80, 80L, 110, 110L-VG



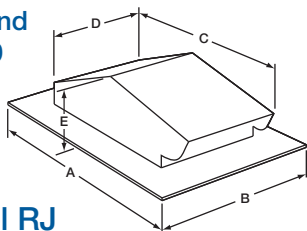
## Performance for CSP

Model Size	RPM	*Amps	*Watts	Sones @ 0 in.	CFM / Static Pressure in inches wg							Quick Build Best Available	In Stock
					0	.125	.25	.375	.5	.75	1		
CSP-B110	950	1.14	80.0	1.5	103	100	98	97	96	86		1 Day	CSP-B110-QD
CSP-B150	1050	1.70	129	2.0	151	149	148	144	146	135		1 Day	CSP-B150-QD
CSP-B200	1100	2.20	173	3.0	186	184	182	181	179	170		1 Day	CSP-B200-QD
CSP-A110	950	0.62	48.7	0.8	124	110	102	77				1 Day	CSP-A110-QD
CSP-A125	1100	0.63	52.5	1.1	138	124	114	91				1 Day	CSP-A125-QD
CSP-A190	1400	1.10	100	2.0	215	198	180	159	121			1 Day	CSP-A190-QD
CSP-A200	900	0.43	48.2	0.6	254	226	203	178	145	70		1 Day	CSP-A200-QD
CSP-A250	1000	0.79	82.7	0.9	266	241	221	205	187	132		1 Day	CSP-A250-QD
CSP-A290	1050	0.71	80.7	1.1	318	292	265	248	229	144		1 Day	CSP-A290-QD
CSP-A390	1350	1.33	140	2.0	412	397	382	363	339	309		1 Day	CSP-A390-QD
CSP-A410	1000	1.87	135	1.5	447	403	364	317	217			1 Day	CSP-A410-QD
CSP-A510	1070	3.11	217	2.5	545	506	464	405	324			1 Day	CSP-A510-QD
CSP-A700	1100	3.20	350	2.0	766	752	739	726	702	635	418	1 Day	CSP-A700-QD
CSP-A710	1080	4.40	325	2.5	737	688	635	567	475			1 Day	CSP-A710-QD
CSP-A780	1600	3.77	405	3.0	813	777	742	707	672	603	527	1 Day	CSP-A780-QD
CSP-A900	950	4.87	328	1.4	908	841	782	715	631			1 Day	CSP-A900-QD
CSP-A1050	1095	6.65	455	2.5	1182	1093	1013	922	832			1 Day	CSP-A1050-QD
CSP-A1410	1450	7.80	822	3.5	1584	1533	1483	1439	1395	1293	1181	1 Day	CSP-A1410-QD
CSP-A1550	1610	8.32	830	5.0	1672	1604	1543	1484	1427	1307	1172	1 Day	CSP-A1550-QD
CSP-A1750	1130	6.60	550	5.0	1842	1749	1619	1464	1284	772		1 Day	—
CSP-A2150	1100	7.80	735	5.0	2249	2156	2044	1900	1701	1114		1 Day	—
CSP-A3600	1100	7.10	1330	5.0	3778	3622	3460	3280	3091	2551	1750	1 Day	—

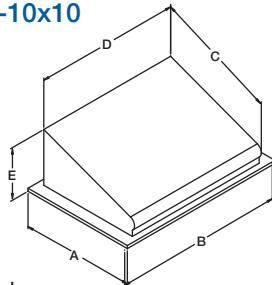
\*Amp and watt draw are approximate and may vary based on motor manufacturer. Performance certified is for installation type D: Ducted inlet, Ducted outlet. Performance ratings include the effects of a backdraft damper. Speed (rpm) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in spherical fan sones at 5 ft. (1.5 m) in a spherical free field calculated per Annex B of AMCA 311. Values shown are for installation type D: ducted inlet spherical sone levels. Ratings do not include the effect of duct end correction. The AMCA Certified Ratings Seal applies to air performance only.

## Discharge Accessories for SP and CSP

### RJ-4 and RJ-6x9



### RJ-10x10

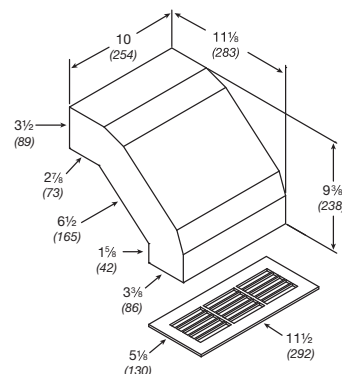


### Model RJ Pitched Roof Cap

- Steel construction with black enamel finish
- Integral flashing flange
- Built-in birdscreen and damper

Model	For use with SP-C, SP-B, SP-A SP-VG CSP-B, CSP-A	A	B	C	D	E	Throat
RJ-4	Size C50, Size B50 - 80 Size 80, 80L	11	9 $\frac{1}{4}$	8 $\frac{1}{4}$	5 $\frac{5}{16}$	4 $\frac{1}{2}$	4 in. dia.
RJ-6 x 9	Size B90 - 200 Size A50 - 390 Size 110, 110L	18 $\frac{3}{4}$	14 $\frac{1}{4}$	14 $\frac{1}{2}$	10 $\frac{3}{8}$	6 $\frac{1}{2}$	6 x 9
RJ-10 x 10	Size A410 - 1050	18 $\frac{1}{2}$	27 $\frac{1}{2}$	15 $\frac{3}{4}$	23 $\frac{3}{8}$	9 $\frac{1}{2}$	10 x 10

All dimensions are in inches.



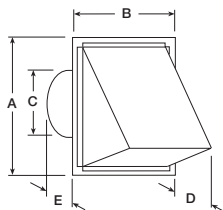
All dimensions are in inches (millimeters).

### Model EL-10x3 Elbow Discharge with Grille

- Designed for installation under roof eaves
- Painted steel louvered grille
- Built-in damper
- For SP-C/SP-B/SP-A, sizes 50 - 290
- For SP-80, 80L, 110, 110L-VG
- For CSP-B/CSP-A, sizes 110 - 290

### Model WC Round Connection Hooded Wall Cap

- Aluminum construction - aluminum finish
- For outside wall applications
- Built-in birdscreen (not available on WC-4) and damper

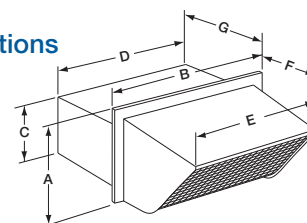


Model	For use with SP-C, SP-B, SP-A SP-VG CSP-B, CSP-A	A	B	C	D	E
WC-4	Size C50	6 $\frac{1}{2}$	6	4	2 $\frac{3}{4}$	5
WC-6	Size B50 - 200 Size A50 - 190 Size 80, 80L, 110, 110L	8	8	6	4 $\frac{1}{8}$	5
WC-8	Size A200 - 510	11	11	8	5 $\frac{1}{8}$	3 $\frac{1}{2}$

All dimensions are in inches.

### Model WC Square/Rectangular Connections Hooded Wall Cap

- Steel construction with black enamel finish
- For outside wall applications
- Built-in birdscreen and damper

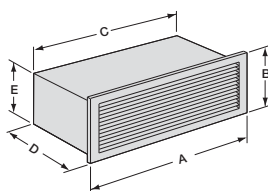


Model	For use with SP-C, SP-B, SP-A SP-VG CSP-B, CSP-A	A	B	C	D	E	F	G
WC-10 x 3	Size C50 Size B50 - 200 Size A50 - 290 Size 80, 80L, 110, 110L	5 $\frac{1}{2}$	12 $\frac{3}{4}$	3 $\frac{1}{2}$	10 $\frac{1}{4}$	11 $\frac{1}{8}$	4 $\frac{1}{4}$	5
WC-8 x 8	Size A390 - 510	10 $\frac{1}{4}$	10 $\frac{1}{4}$	8 $\frac{1}{4}$	8 $\frac{1}{4}$	8 $\frac{1}{4}$	6 $\frac{3}{4}$	5
WC-18 x 8	Size A700 - 1550	10 $\frac{1}{4}$	20 $\frac{1}{4}$	8 $\frac{1}{4}$	18 $\frac{1}{4}$	18 $\frac{1}{4}$	6 $\frac{3}{4}$	5

All dimensions are in inches.

### Model WL Wall Louvered Discharge

- Anodized aluminum grille
- Built-in damper
- Not recommended for exterior applications exposed to severe weather conditions. An external wall louver is recommended for such applications.

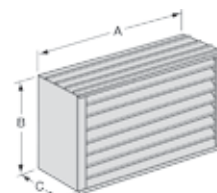


Model	For use with SP-C, SP-B, SP-A SP-VG CSP-B, CSP-A	A	B	C	D	E
WL-10 x 3	Size C50 Size B50 - 200 Size A50 - 290 Size 80, 80L, 110, 110L	12	5 $\frac{1}{4}$	10	7 $\frac{3}{4}$	3 $\frac{1}{2}$
WL-18 x 6	Size A390 - 1550	19 $\frac{3}{4}$	8	18	9	6

All dimensions are in inches.

### Model BVE Brick Vent

- Designed for installation in masonry walls
- Anodized aluminum construction
- Built-in aluminum mesh insect screen

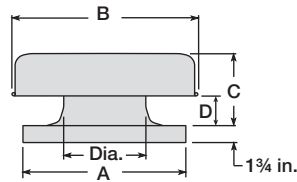
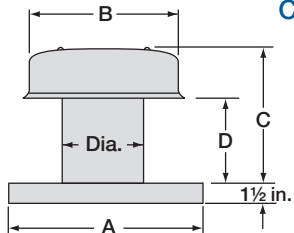


Model	For use with SP-C, SP-B, SP-A SP-VG CSP-B, CSP-A	A	B	C
BVE808	Size C50 Size B50 - 200 Size A50 - 290 Size 80, 80L, 110, 110L	8 $\frac{1}{8}$	7 $\frac{3}{4}$	4
BVE128	Size A390 - 510	12	7 $\frac{3}{4}$	4
BVE157	Size A700 - 1050	15 $\frac{5}{8}$	7 $\frac{3}{4}$	4

All dimensions are in inches.

## Discharge Accessories for SP and CSP

### Curb Cap



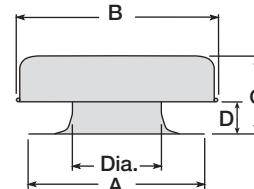
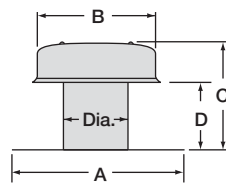
#### Model RCC-7

- Weathertight aluminum construction
- Integral birdscreen
- Built-in curb cap
- Requires roof curb

#### Model GRS

- All aluminum exterior construction
- Galvanized steel internal supports
- Integral birdscreen
- Built-in curb cap
- Requires roof curb

### Flashing Flange



#### Model RFC-7

- Weathertight aluminum construction
- Integral birdscreen
- Built-in flashing flange

#### Model GRSF

- All aluminum exterior construction
- Galvanized steel internal supports
- Integral birdscreen
- Built-in flashing flange

Model	For use with SP-C, SP-B, SP-A SP-VG CSP-B, CSP-A	A	B	C	D	Dia.
RCC-7	Size C50 Size B50 - 200 Size A50 - 390 Size 80, 80L, 110, 110L	15	12	10	6 <sup>5</sup> / <sub>16</sub>	7
GRS-10	Size A410 - 710	19	20 <sup>1</sup> / <sub>2</sub>	7 <sup>3</sup> / <sub>4</sub>	2	10 <sup>1</sup> / <sub>4</sub>
GRS-12	Size A780 - 1050	22	29	10	3 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>4</sub>
GRS-16	Size A1410 - 2150	26	29	11	4 <sup>1</sup> / <sub>4</sub>	16 <sup>5</sup> / <sub>16</sub>
GRS-20	Size A3600	30	35 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	20 <sup>5</sup> / <sub>16</sub>

All dimensions are in inches.

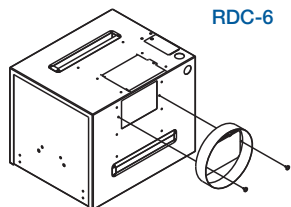
Model	For use with SP-C, SP-B, SP-A SP-VG CSP-B, CSP-A	A	B	C	D	Dia.
RFC-7	Size C50 Size B50 - 200 Size A50 - 390 Size 80, 80L, 110, 110L	18	12	10	6 <sup>5</sup> / <sub>16</sub>	7
GRSF-10	Size A410 - 710	23	20 <sup>1</sup> / <sub>2</sub>	7 <sup>3</sup> / <sub>4</sub>	2	10 <sup>1</sup> / <sub>4</sub>
GRSF-12	Size A780 - 1050	26	29	10	3 <sup>1</sup> / <sub>2</sub>	12 <sup>1</sup> / <sub>4</sub>
GRSF-16	Size A1410 - 2150	30	29	11	4 <sup>1</sup> / <sub>4</sub>	16 <sup>5</sup> / <sub>16</sub>
GRSF-20	Size A3600	34	35 <sup>1</sup> / <sub>2</sub>	11 <sup>1</sup> / <sub>4</sub>	3 <sup>3</sup> / <sub>4</sub>	20 <sup>5</sup> / <sub>16</sub>

All dimensions are in inches.

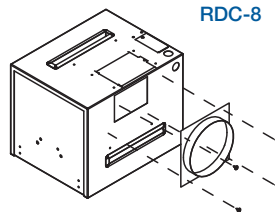
### Model RDC

#### Round Duct Connector

- Replaces the standard square discharge duct connector and damper.
- Uses existing mounting holes
- Galvanized steel construction
- RDC-6 includes a damper
- RDC-8 does not include a damper



RDC-6



RDC-8

Model	For use with SP-A, CSP-A	Dia.
RDC-6	Size A110 - 190	6
RDC-8	Size A200 - 510	8

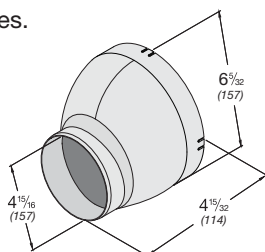
All dimensions are in inches.

### Model 473324

#### 6x4 Transition Duct Reducer

- Reduces duct from 6 to 4 inches.
- Durable plastic construction

Model	For use with SP-B, SP-A CSP-B, CSP-A
473324	Size B50 - 200
	Size A50 - 90
	Size A110 - 190*

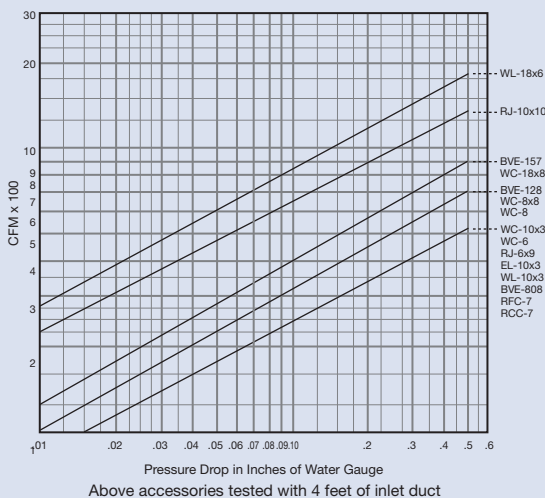


All dimensions are in inches.

\*Used in conjunction with RDC-6

### Accessory Pressure Drops

The chart below can be used with all of the discharge accessories shown on these two pages. Specific pressure drop values for these accessories must be included in total system calculations for proper fan selection.

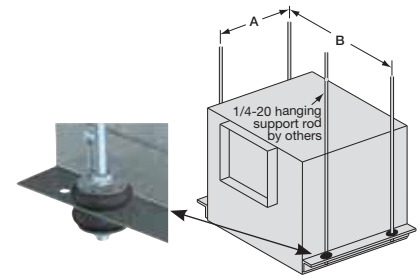


## Hanging Vibration Isolators

Vibration isolator kits are available for suspended installations. Kits include all hardware necessary to mount one unit, with the exception of 1/4-20 threaded rod to be supplied by others. Fan mounting brackets include prepunched mounting holes for ease of installation.

Model Size	A	B
B50 - B200	4½	15⅝
A50 - A190	5½	14⅝
A200 - A390	6¾	15½
A410 - A510, A710 - A780	9¼	19⅝
A700	5½	25⅝
A900 - A1050, A1410 - A1550	9¼	25⅝
A1750, A2150	9¼	36¾
A3600	9¼	48⅝

All dimensions are in inches.



## Ceiling Radiation Dampers



The Greenheck SP-A and SP-B ceiling radiation dampers are UL/cUL Classified, rated at three to four hours fire resistance, and are available on all SP-A and SP-B fans and fan/light combinations. This design saves space by allowing the dampers to be mounted directly beneath the fan.

SP Model	CRD	Length	Width	Height
A50 - A190	310	13½	11⅝	3
B50 - B200 A200 - A390	320	14⅝	12¼	3
A410 - A510 A710 - A780	350	18⅞	14⅞	3
A-700	700	24⅞	12¼	3
A900 - A1550	360	24⅞	14⅞	3

SP Model	Part #	Length	Width	Height
80, 80L, 110, 110L	453096	11⅝	10¾	3

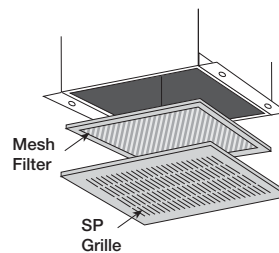
All dimensions are in inches.

## Filters

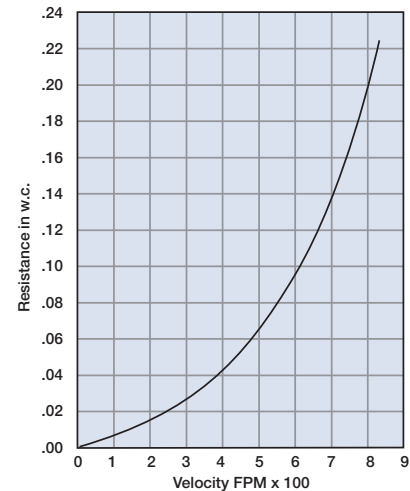
Fans used in most applications, even where air is not excessively dirty, will collect airborne dirt on wheels and motors over time. Accumulations of dirt on the fan wheel will sharply reduce performance and cause imbalance. Dirt buildup on the motor can cause it to overheat. All of these conditions will shorten the life of the fan. To help reduce this accumulation, washable aluminum mesh filters are available to trap dirt before it enters the fan. These filters should be regularly cleaned to maintain performance. The Filter Loss Chart shows the effect the filter will have on performance. To determine the added resistance, divide the desired cfm by the filter area (ft<sup>2</sup>). This will give FPM. Use this with the filter loss chart to determine the added resistance.

In addition to reducing dirt accumulations on the motor and wheel, filters also reduce sound levels.

SP Model	Filter Model		Filter Area (ft <sup>2</sup> )
	Designer Grille	Stainless Steel or Aluminum Grille	
SP-B50 - B200, A200 - A390	F-200	F-220	0.911
SP-A50 - A190	F-200	F-210	0.739
SP-A410 - A510 SP-A710 - A780	Not Available	F-250	1.518
SP-A900 - A1550		F-260	2.078



Filter Loss Chart



## Grilles for Model SP



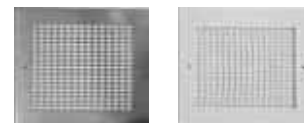
### Designer

Standard on B50-B200, A50-A390  
White polystyrene finish. With or without motion detector or time delay.



### Decorative

Optional on B50-B200, A50-A390  
White plastic finish, with or without light, motion detector or time delay. Lighted grille optional with prismatic or frosted lens.



### Stainless Steel

Optional on B50-B200, A50-A390  
Polished stainless steel finish.

### Aluminum

Standard on A410 - A1550  
Optional on B50-B200, A50-A390  
White enamel finish.



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- 1 Energy Recovery Ventilator
- 2 Roof Upblast
- 3 Louvered Gravity Ventilator
- 4 Equipment Screen
- 5 Laboratory Exhaust System
- 6 Spun Aluminum Roof Exhaust
- 7 Hooded Gravity Ventilator
- 8 Centrifugal Inline Fan
- 9 Ceiling Exhaust Fan
- 10 Louver
- 11 Intake Damper
- 12 Utility Fan
- 13 Make-Up Air Unit
- 14 Upblast Roof Exhaust
- 15 Kitchen Hood

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BCF



BDF

UL/cUL 705 Power Ventilators  
E40001 - BCF with TEFC motors  
E40001 - BDF with TEFC motors



Greenheck Fan Corporation certifies that the Model BCF shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



Greenheck Fan Corporation certifies that the Model BDF shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Best Available Program

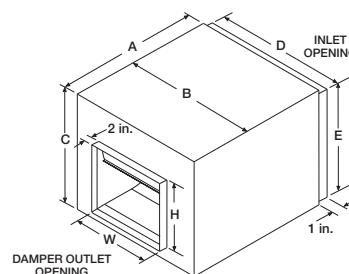
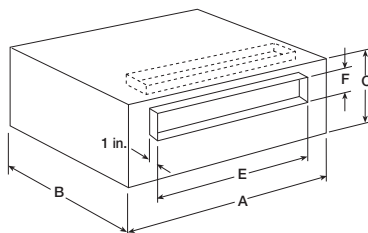
3 Days

## Model BCF and BDF Belt Drive

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

Standard Construction	BCF	BDF
Housing - galvanized steel	■	■
Housing - low profile	■	
Housing - square		■
Drive frame secured to housing	■	■
Wheel - forward-curved, galvanized steel	■	■
Motor and scroll - mounted to drive frame	■	■
Access door - bolted, removable (BCF-108/208 and larger, all BDF)	■	■
Access door - hinged (BCF-106, 107, 206 and 207)	■	■
Corrosion-resistant fasteners	■	■
NEMA-1 disconnect switch	■	■
Ball bearing motor - 1/4 hp and larger	■	■
Double-studded vibration isolators	■	■
Flanges - inlet and outlet	■	■
Adjustable motor pulley	■	■
Options and Accessories	BCF	BDF
Damper	■	■
Isolators	■	■
Insulation	■	■
Filter box* - filters are throwaway (pleated) or permanent (aluminum mesh)	■	■
Mixing box	■	
NEMA rated disconnect switch	■	■
Dual drives	■	■
Multiple discharge positions*	■	■
Decorative or protective powder coating	■	■
UL/cUL Listed Power Ventilators	■	■

\*see page 53 for additional information



### Dimensions for BCF Top horizontal discharge

Model Size	A	B	C	E	F
106	20	23 <sup>3</sup> / <sub>4</sub>	11	12	6
107	23	29	13	15	8
108	26	32	16	18	10
110	32	36	19	24	12
112	36	42	23	28	14
206	34	23 <sup>3</sup> / <sub>4</sub>	11	26	6
207	38	29	13	30	8
208	44	32	16	36	10
210	48	36	19	40	12
212	58	42	23	50	14

All dimensions are in inches.

### Dimensions for BDF Bottom horizontal discharge

Model Size	A	B	C	Damper Outlet Opening (W x H)	Inlet Opening (D x E)
80	23 <sup>3</sup> / <sub>4</sub>	18 <sup>1</sup> / <sub>2</sub>	15 <sup>7</sup> / <sub>8</sub>	9 <sup>3</sup> / <sub>4</sub> x 8 <sup>7</sup> / <sub>8</sub>	15 <sup>5</sup> / <sub>16</sub> x 12 <sup>11</sup> / <sub>16</sub>
90	24 <sup>1</sup> / <sub>4</sub>	21 <sup>1</sup> / <sub>4</sub>	18 <sup>3</sup> / <sub>4</sub>	12 <sup>1</sup> / <sub>4</sub> x 10 <sup>1</sup> / <sub>2</sub>	18 <sup>1</sup> / <sub>4</sub> x 15 <sup>5</sup> / <sub>8</sub>
100	26 <sup>1</sup> / <sub>4</sub>	22 <sup>3</sup> / <sub>4</sub>	20 <sup>3</sup> / <sub>4</sub>	13 <sup>3</sup> / <sub>4</sub> x 11 <sup>7</sup> / <sub>8</sub>	19 <sup>3</sup> / <sub>4</sub> x 17 <sup>7</sup> / <sub>8</sub>
120	33	27 <sup>1</sup> / <sub>4</sub>	22 <sup>3</sup> / <sub>4</sub>	16 x 13 <sup>5</sup> / <sub>8</sub>	24 <sup>1</sup> / <sub>8</sub> x 19 <sup>7</sup> / <sub>8</sub>
150	34 <sup>3</sup> / <sub>4</sub>	32 <sup>5</sup> / <sub>8</sub>	27 <sup>3</sup> / <sub>4</sub>	19 <sup>1</sup> / <sub>8</sub> x 16 <sup>3</sup> / <sub>8</sub>	28 <sup>5</sup> / <sub>8</sub> x 23 <sup>7</sup> / <sub>8</sub>
180	40 <sup>1</sup> / <sub>4</sub>	41 <sup>3</sup> / <sub>4</sub>	31 <sup>3</sup> / <sub>4</sub>	22 <sup>1</sup> / <sub>2</sub> x 18 <sup>7</sup> / <sub>8</sub>	37 <sup>1</sup> / <sub>2</sub> x 27 <sup>7</sup> / <sub>8</sub>
200	50 <sup>1</sup> / <sub>4</sub>	49 <sup>3</sup> / <sub>4</sub>	39 <sup>3</sup> / <sub>4</sub>	23 <sup>3</sup> / <sub>8</sub> x 25 <sup>1</sup> / <sub>4</sub>	45 <sup>1</sup> / <sub>8</sub> x 36

All dimensions are in inches.



## Performance for BCF

Model Size	CFM	RPM / Static Pressure in inches wg										Max BHP	Sones @ .25	Quick Build Best Available
		.125	.25	.375	.5	.625	.75	1	1.25	1.5	1.75			
106	230	834	1036	1219	1392	1547	1687					0.05	4.9	3 Days
	410	1202	1335	1465	1586	1701	1811	2024	2219	2416	2599	0.22	6.2	
	590	1635	1724	1815	1908	2000	2089					0.28	8.4	
	770	2086	2153	2223								0.34	11.1	
107	360	596	726	851		1188	1260	1411				0.05	5.0	3 Days
	630	882	962	1038	1111	1188	1260	1411				0.22	6.8	
	900	1201	1258	1313	1369	1423	1476	1577	1686	1787	1597	0.59	9.2	
	1170	1531	1575	1619	1662	1703	1747	1832				0.76	12.3	
108	890	651	748	840	924	1008	1084	1223				0.27	5.2	3 Days
	1250	848	916	985	1054	1121	1185	1305	1423	1531	1630	0.67	6.8	
	1610	1057	1110	1164	1217	1270	1324	1429				0.72	9.3	
	1850	1200	1247	1292	1339							0.78	11.0	
110	1140	586	671	750	819	882	941	1053	1151			0.36	6.4	3 Days
	1700	817	863	916	975	1031	1084	1181	1269	1349	1430	0.84	8.8	
	1980	941	976	1017	1063	1113	1164	1257	1342	1420	1494	1.08	10.4	
	2260	1066	1092	1128	1163	1204	1248					1.00	12.5	
112	1410	543	608	667	720	770	821	915	1004	1088	1166	0.65	9.9	3 Days
	2130	760	808	852	895	937	976	1049	1118	1183	1251	1.13	13.7	
	2850	990	1025	1061	1095	1128	1161	1224	1284			1.66	19.4	
	3330	1146	1176	1206	1237	1266						1.95	24	
206	740	1128	1285	1416	1533	1639	1747					0.22	8.0	3 Days
	950	1362	1494	1616	1725	1823	1915	2084	2252	2407		0.48	8.8	
	1160	1612	1719	1826	1927	2023	2110					0.51	10.4	
	1300	1783	1877	1972								0.49	11.8	
207	760	623	742	867								0.09	6.2	3 Days
	1210	858	946	1028	1103	1176	1257	1411				0.38	8.5	
	1660	1116	1185	1250	1313	1373	1430	1539	1649	1763	1875	0.93	11.6	
	2260	1474	1527									1.03	16.7	
208	1150	541	669									0.10	6.0	3 Days
	1840	721	817	903	984	1061	1132					0.55	9.7	
	2530	929	1000	1071	1138	1201	1261	1377	1489	1592		1.30	11.5	
	3450	1222	1274	1326	1379	1430						1.53	16.1	
210	1660	501	590	676	755							0.23	6.1	3 Days
	2485	665	734	796	854	915	972	1077	1188			0.87	11.1	
	3310	839	898	950	999	1046	1091	1179	1267	1351	1429	1.67	13.4	
	4410	1078	1128	1174	1215	1253	1291					2.05	17.7	
212	2810	549	608	665	718	767	813	902	994	1077		1.22	8.2	3 Days
	3950	729	773	814	857	899	938	1012	1082	1148	1209	2.12	12.2	
	5090	916	950	985	1018	1049	1082	1148	1210	1269	1324	3.27	17.3	
	5850	1043	1073	1103	1133	1162	1189					3.05	21	

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The AMCA Certified Ratings Seal applies to air performance only.

## Performance for BDF

Model Size	CFM	RPM / Static Pressure in inches wg										Max BHP	Sones @ .25	Quick Build Best Available
		.125	.25	.375	.5	.75	1	1.5	2	2.5	3			
80	400	546	717									0.03	4.7	3 Days
	700	772	857	949	1051	1244						0.15	6.4	
	1000	1024	1100	1165	1220	1348	1490	1762				0.50	9.4	
	1300	1287	1351	1409								0.50	14.0	
90	800	465	584	689								0.09	4.1	3 Days
	1140	569	660	748	827	975						0.26	6.0	
	1820	805	874	934	991	1106	1213	1409				1.00	11.2	
	2500	1077	1112									1.02	17.4	
100	1000	413	521	615								0.12	5.0	3 Days
	1400	498	581	660	735	869						0.33	6.1	
	2000	666	710	768	826	937	1041	1231				1.05	9.9	
	2600	851	872	907	948							0.99	14.7	
120	1600	370	456	535	604	726						0.37	6.3	3 Days
	2500	504	554	608	666	771	866	1033				1.33	9.6	
	3400	677	689	721	766	847	930					1.44	14.8	
	4000	796	802	814								1.54	18.6	
150	2500	374	406	457	517							0.42	7.0	3 Days
	3160	449	483	508	544	637	714					1.00	9.7	
	4480	611	637	664	685	720	770	902	1010			3.15	16.5	
	5800	780	797	816								2.91	24	
180	5080	358	400	439	479	553	621	738				2.19	10.8	3 Days
	6700	450	480	513	544	603	662	770	868	954		4.85	17.9	
	8320	546	570	594	621	671	717	814				5.00	21	
	9400	612	632	654	675	722						5.00	24	
200	6000	304	340	377	413	480	538					1.77	13.1	3 Days
	9000	425	449	473	498	546	596	689	770	846		7.11	17.6	
	12000	553	571	589	607	644	680	754	827	896	961	11.92	25	
	15000	682	697	712	726	756	783	843	899			14.90	35	

Performance certified is for installation type D: Ducted inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) from the test inlet duct in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type D: ducted inlet, ducted outlet. Ratings do not include the effects of duct end correction.

BSQ



SQ



UL/cUL 705 Power Ventilators  
E40001 - SQ and BSQ

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



Greenheck Fan Corporation certifies that the Model SQ and BSQ shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

## Model SQ Direct Drive and BSQ Belt Drive

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

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 <i>Available as standard on select sizes</i>	✓	■	
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		■	■
Certified for seismic applications		■	■
UL/cUL Listed Power Ventilators		■	■

\*see page 53 for additional information

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 and 160 BSQ-130 and 200	1 Day
High Pressure BSQ-130HP through 240HP BSQ-300 through 420	3 Days



VARI GREEN Motor

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

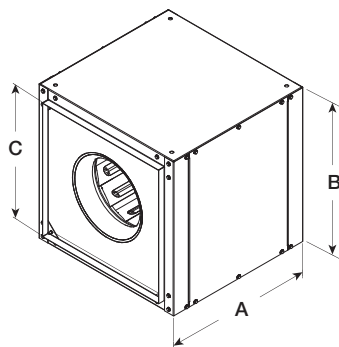
### Dimensions for SQ, BSQ

Model Size	A	B Sq.	C	D*
SQ-60-75	13	12	8 <sup>7</sup> / <sub>8</sub>	—
SQ-80-95	16	15	11 <sup>7</sup> / <sub>8</sub>	—
BSQ-70-90	21	15	11 <sup>7</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>2</sub>
SQ/BSQ-100	21	17	13 <sup>3</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>2</sub>
SQ/BSQ-120	21	19	15 <sup>5</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>2</sub>
SQ/BSQ-130	21	21	17 <sup>7</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>2</sub>
SQ/BSQ-140	22	23	19 <sup>7</sup> / <sub>8</sub>	12 <sup>1</sup> / <sub>2</sub>
SQ/BSQ-160	26	26	22 <sup>7</sup> / <sub>8</sub>	13 <sup>3</sup> / <sub>8</sub>
BSQ-180	28	28	23 <sup>7</sup> / <sub>8</sub>	13 <sup>3</sup> / <sub>4</sub>
BSQ-200	32	32	27 <sup>7</sup> / <sub>8</sub>	16
BSQ-240	34	39	34 <sup>7</sup> / <sub>8</sub>	19
BSQ-300	38	46	41 <sup>7</sup> / <sub>8</sub>	18
BSQ-360	42	52	47 <sup>7</sup> / <sub>8</sub>	18
BSQ-420	50	58	53 <sup>7</sup> / <sub>8</sub>	18

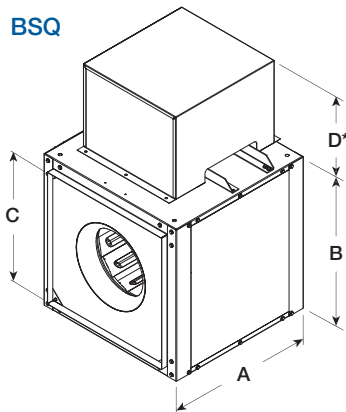
All dimensions are in inches.

\*Dimension may be greater depending on motor

SQ



BSQ



Performance for SQ



Model Size	CFM / Static Pressure in inches wg									Motor HP	Max Fan RPM	Max Bhp	Sones @ .125	Quick Build	In Stock
	0	.125	.25	.375	.5	.625	.75	1	1.5					Best Available	
60	126	63								1/140	1050	.007	1.8	1 Day	-
	156	109	37							1/80	1300	.013	2.5		
	186	145	105	31						1/40	1550	.022	4.0		
	207	170	136	85						1/6	1725	.030	5.0		
65	154	79								1/100	1050	.009	1.9	1 Day	-
	191	137	52							1/50	1300	.017	2.9		
	228	184	128	46						1/30	1550	.028	4.0		
	254	216	170	111						1/6	1725	.040	5.7		
70	212	118								1/100	1050	.009	1.5	1 Day	-
	262	190	77							1/50	1300	.018	3.3		
	313	252	189	67						1/30	1550	.030	5.1		
	348	295	240	171						1/6	1725	.040	6.6		
75	241	146								1/100	1050	.011	2.8	1 Day	SQ-75-DGEX-QD
	298	224	133							1/50	1300	.021	3.7		-
	356	294	229	137						1/30	1550	.035	5.4		-
	396	341	285	223						1/6	1725	.050	8.0		-
80	306	225	104							1/40	1050	.017	3.6	1 Day	SQ-80-DGEX-QD
	378	312	244	140						1/20	1300	.032	5.4		-
	451	394	342	280	201					1/12	1550	.055	7.3		-
	503	451	405	350	294	219				1/6	1725	.080	8.5		SQ-80-VG6X-QD
85	357	272	142							1/40	1050	.018	3.9	1 Day	SQ-85-DGEX-QD
	442	377	298	185						1/20	1300	.034	5.3		-
	528	474	413	343	254					1/12	1550	.057	7.4		-
	588	540	488	429	362					1/6	1725	.080	8.6		-
90	500	369	188							1/50	1050	.021	3.9	1 Day	SQ-90-DGEX-QD
	619	519	397	245						1/25	1300	.040	5.4		-
	738	654	564	457	334					1/10	1550	.068	7.5		-
	821	748	669	579	481	366				1/6	1725	.090	8.8		SQ-90-VG6X-QD
95	623	475	274							1/30	1050	.031	4.5	1 Day	SQ-95-DGEX-QD
	771	659	522	352						1/15	1300	.059	6.7		-
	919	829	720	603	461	276				1/8	1550	.100	9.3		-
	1024	948	850	751	641	507				1/6	1725	.140	11.0		-
100	725	611								1/8	860	.030	3.7	1 Day	-
	961	881	785	657						1/6	1140	.071	6.5		SQ-100-AX-QD
	1454	1402	1349	1292	1227	1156	1077	830		1/4	1725	.250	12.4		SQ-100-VG4X-QD
120	971	843	704							1/8	860	.059	4.1	1 Day	-
	1287	1189	1094	992	873	692				1/6	1140	.140	7.2		-
	1948	1883	1818	1754	1692	1628	1562	1416		1/2	1725	.480	14.1		SQ-120-VG5X-QD
130	1180	1048	890							1/8	860	.078	5.2	1 Day	-
	1564	1471	1366	1248	1104	865				1/4	1140	.180	8.3		-
	2368	2307	2247	2174	2105	2038	1961	1791		3/4	1725	.630	17.6		-
140	1637	1487	1316	1033						1/8	860	.130	6.2	1 Day	-
	2170	2061	1942	1818	1666	1446	1121			1/3	1140	.300	10.5		-
	2855	2772	2690	2598	2506	2412	2307	2029		3/4	1500	.680	15.6		SQ-140-VG7X-QD
	3283	3212	3139	3065	2985	2905	2825	2645	2085	1	1725	1.03	19.7		-
160	2506	2334	2147	1913	1605					1/4	860	.240	7.7	1 Day	-
	3322	3194	3061	2922	2773	2587	2388	1808		1/2	1140	.560	13.4		-
	3788	3600	3562	3415	3320	3198	3033	2685		1	1300	.840	15.0		-
	5027	4942	4856	4772	4683	4596	4504	4312	3845	2	1725	1.95	25		-

Performance certified is for installation type B: Free inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: free inlet hemispherical sone levels.



## Performance for BSQ

Model Size	CFM / Static Pressure in inches wg									Motor HP	Max Fan RPM	Max Bhp	Sones @ .25	Quick Build Best Available	In Stock
	.125	.25	.5	.75	1	1.25	1.5	1.75	2						
70	405	384	331	273	212	142				1/4	1972	0.26	19.1	1 Day	BSQ-70-4X-QD —
	450	431	387	335	282	224	161			1/3	2172	0.35	21		
	521	504	468	426	380	334	287	232	176	1/2	2486	0.52	25		
80	720	687	613	524	424					1/4	1833	0.26	16.9	1 Day	BSQ-80-4X-QD —
	799	769	704	630	545	452	269			1/3	2018	0.35	19.5		
	924	897	842	784	716	643	563	445		1/2	2310	0.52	23		
	1065	1041	995	945	894	835	773	705	635	3/4	2645	0.79	28		
90	965	914	798	654	437					1/4	1694	0.26	15.8	1 Day	BSQ-90-4X-QD —
	1072	1028	926	808	657					1/3	1866	0.35	17.3		
	1239	1202	1118	1024	917	789	638			1/2	2136	0.52	21		
	1429	1396	1326	1249	1167	1073	976	844	707	3/4	2445	0.79	25		
	1579	1549	1488	1420	1347	1271	1186	1097	987	1	2691	1.05	28		
100	1265	1207	1088	917						1/4	1609	0.26	15.0	1 Day	BSQ-100-LMDX-QD
	1405	1352	1247	1110	939					1/3	1772	0.35	16.4		
	1623	1577	1484	1396	1262	1119				1/2	2029	0.52	19.6		
	1871	1830	1749	1668	1591	1472	1358	1197		3/4	2323	0.79	23		
	2066	2029	1956	1882	1810	1734	1626	1522	1402	1	2556	1.05	26		
120	1471	1392	1226	1020						1/4	1367	0.26	11.0	1 Day	BSQ-120-LMDX-QD
	1636	1564	1418	1252	1027					1/3	1506	0.35	12.5		
	1892	1830	1703	1571	1423	1241				1/2	1724	0.52	15.7		
	2183	2129	2020	1908	1791	1663	1518	1307		3/4	1974	0.78	19.1		
	2413	2364	2264	2164	2062	1953	1836	1712	1553	1	2172	1.05	23		
	2779	2737	2651	2563	2475	2387	2294	2198	2093	1 1/2	2490	1.58	30		
	1652	1563	1328	958						1/4	1293	0.26	11.6		
130	1838	1754	1568	1299						1/3	1424	0.35	13.3	1 Day	—
	2126	2050	1908	1714	1468	1121				1/2	1630	0.52	15.6		
	2448	2389	2266	2128	1949	1740	1462			3/4	1866	0.78	19.5		
	2702	2655	2537	2426	2286	2117	1926	1686	1319	1	2053	1.05	22		
	3112	3074	2971	2877	2777	2659	2514	2359	2189	1 1/2	2355	1.58	28		
	1927	1810	1538							1/4	1076	0.26	10.7		
140	2142	2039	1807	1463						1/3	1185	0.35	11.9	1 Day	BSQ-140-LMDX-QD
	2476	2392	2197	1979	1636					1/2	1356	0.52	13.9		
	2858	2787	2626	2449	2253	1964	1447			3/4	1553	0.79	16.0		
	3159	3094	2953	2798	2635	2451	2177	1752		1	1709	1.05	18.0		
	3633	3576	3461	3330	3193	3050	2894	2705	2457	1 1/2	1956	1.57	23		
	4009	3958	3856	3741	3622	3494	3365	3225	3078	2	2153	2.10	30		
	2373	2209	1759							1/4	873	0.26	8.6		
160	2643	2504	2150							1/3	962	0.35	9.6	1 Day	BSQ-160-LMDX-QD
	3061	2944	2665	2301						1/2	1101	0.52	12.1		
	3538	3436	3212	2946	2611	2071				3/4	1261	0.78	15.1		
	3911	3818	3628	3402	3146	2815	2311			1	1387	1.04	17.5		
	4503	4422	4259	4079	3880	3656	3389	3055	2566	1 1/2	1588	1.56	22		
	4973	4899	4751	4603	4425	4240	4037	3802	3528	2	1748	2.09	27		
	5713	5648	5519	5390	5260	5103	4946	4774	4596	3	2001	3.14	38		
	3051	2845	2217							1/3	791	0.35	10.9		
180	3546	3366	2928	2175						1/2	905	0.52	12.1	1 Day	BSQ-180-LMDX-QD
	4109	3955	3616	3179	2432					3/4	1037	0.79	14.2		
	4549	4412	4127	3760	3290	2523				1	1141	1.04	16.1		
	5242	5128	4878	4610	4281	3884	3332			1 1/2	1306	1.57	19.5		
	5790	5686	5463	5236	4964	4662	4298	3814	3106	2	1437	2.09	22		
	6656	6566	6377	6179	5981	5744	5485	5216	4866	3	1645	3.14	28		
	3315	3018	2042							1/3	660	0.34	11.2		
200	3867	3624	3036							1/2	756	0.52	12.0	1 Day	—
	4484	4285	3812	3239						3/4	865	0.79	13.7		
	4972	4796	4391	3916	3203					1	952	1.05	15.5		
	5741	5587	5253	4874	4452	3878				1 1/2	1090	1.56	18.9		
	6350	6210	5920	5597	5233	4836	4316			2	1200	2.09	22		
	7314	7192	6948	6677	6396	6076	5753	5379	4862	3	1375	3.15	27		

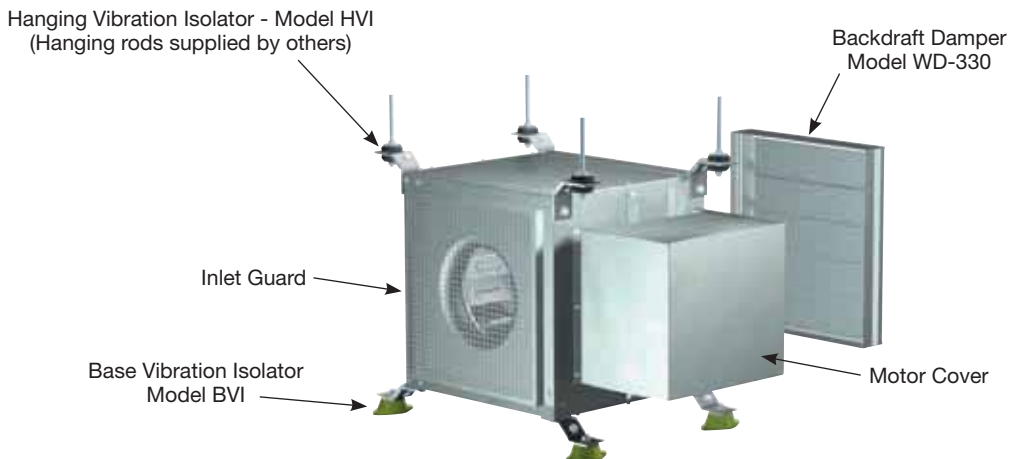
Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: free inlet hemispherical sone levels.

## Performance for BSQ

Model Size	CFM / Static Pressure in inches wg									Motor HP	Max Fan RPM	Max Bhp	Sones @ .25	Quick Build Best Available	In Stock
	.125	.25	.5	.75	1	1.25	1.5	1.75	2						
240	5269	4833	3685							1/2	569	0.51	11.8	1 Day	BSQ-240-LMDX-QD
	6132	5768	4946							3/4	651	0.78	13.9		
	6816	6498	5782	4884						1	717	1.03	15.9		
	7935	7680	7086	6425	5604					1½	826	1.59	19.5		
	8720	8488	7960	7384	6756	5889				2	903	2.09	22		
	10048	9845	9409	8936	8421	7881	7219	6268		3	1034	3.14	27		
	11973	11802	11460	11070	10671	10245	9804	9345	8797	5	1225	5.22	40		
300	7693	7033	4827							3/4	449	0.78	11.6	3 Days	-
	8598	7982	6450							1	494	1.04	13.8		
	10022	9469	8363	6662						1½	566	1.57	16.6		
	11129	10636	9676	8418						2	623	2.09	19.0		
	12862	12446	11588	10703	9547	7803				3	713	3.13	23		
	15380	15041	14307	13604	12860	11957	10839	9309		5	845	5.23	27		
	17693	17396	16776	16124	15526	14888	14171	13273	12242	7½	967	7.85	33		
360	10039	9008								1	376	1.04	12.5	3 Days	-
	11720	10872	8980							1½	431	1.55	14.7		
	13018	12323	10736	8489						2	474	2.09	16.6		
	15081	14544	13112	11627	9553					3	543	3.12	19.6		
	18041	17587	16511	15327	14081	12560				5	643	5.19	27		
	20802	20407	19615	18505	17515	16475	15153	13704		7½	737	7.84	31		
	22967	22607	21888	21011	19986	19146	18195	16996	15786	10	811	10.45	34		
420	15275	14340	12132							2	389	2.09	12.3	3 Days	-
	17704	16910	15188	12941						3	445	3.12	19.5		
	21244	20625	19231	17747	15850	13154				5	528	5.24	24		
	24459	23950	22762	21502	20206	18533	16581			7½	604	7.84	30		
	27237	26778	25749	24660	23491	22322	20793	19111	16873	10	670	10.71	37		

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: free inlet hemispherical sone levels.

## SQ and BSQ Options and Accessories



## Performance for High Pressure BSQ

Model Size	CFM / Static Pressure in inches wg									Motor HP	Max Fan RPM	Max Bhp	Sones @ .5	Quick Build
	.5	.75	1	1.25	1.5	1.75	2	2.5	3					Best Available
130HP	1014	884	670							1/4	1520	0.26	11.4	1 Day
	1161	1048	930	700						1/3	1674	0.35	12.4	
	1380	1294	1192	1091	925	680				1/2	1916	0.52	14.6	
	1621	1555	1477	1388	1297	1203	1033			3/4	2194	0.78	19.2	
	1808	1749	1685	1614	1532	1448	1369	1080		1	2414	1.04	22	
	2108	2056	2005	1950	1888	1825	1750	1608	1421	1½	2770	1.56	27	
140HP	1449	1281	1058							1/3	1453	0.35	13.3	1 Day
	1742	1607	1456	1264	800					1/2	1664	0.52	16.5	
	2057	1954	1832	1701	1548	1363				3/4	1905	0.79	19.7	
	2298	2211	2108	1998	1878	1741	1581			1	2096	1.05	24	
	2676	2603	2525	2437	2339	2244	2134	1882	1381	1½	2399	1.57	30	
	2973	2907	2841	2768	2688	2599	2512	2319	2088	2	2641	2.10	33	
160HP	1844	1533								1/3	1116	0.35	8.6	1 Day
	2237	2020	1731	1305						1/2	1277	0.52	10.8	
	2664	2497	2299	2050	1720					3/4	1462	0.79	14.1	
	2986	2845	2688	2497	2269	1993	1601			1	1609	1.05	17.8	
	3488	3377	3248	3115	2954	2773	2570	2013		1½	1842	1.56	25	
	3881	3780	3676	3555	3434	3290	3135	2763	2248	2	2027	2.09	28	
4499	4411	4322	4234	4129	4024	3918	3660	3351	3	2321	3.14	36		
180HP	2636	2364	1984							1/2	1083	0.57	12.1	1 Day
	3169	2964	2724	2406	1945					3/4	1249	0.87	14.7	
	3428	3247	3032	2782	2458	1513				1	1332	1.06	16.3	
	3931	3782	3614	3423	3212	2944	2622			1½	1498	1.51	19.9	
	4425	4298	4158	4003	3833	3648	3429	2859		2	1664	2.07	24	
	5155	5050	4938	4816	4691	4545	4396	4058	3620	3	1913	3.14	33	
200HP	2724	2258								1/2	880	0.52	12.8	1 Day
	3327	3003	2556							3/4	1009	0.78	15.6	
	3787	3495	3179	2732						1	1111	1.05	16.9	
	4466	4235	3979	3716	3379	2808				1½	1271	1.57	18.8	
	4998	4803	4578	4344	4108	3802	3409			2	1399	2.09	21	
	5823	5659	5489	5291	5089	4883	4669	4089	2894	3	1602	3.15	26	
240HP	4643	4149	3492							1	820	1.04	15.2	1 Day
	5552	5159	4721	4161						1½	939	1.57	18.1	
	6251	5909	5533	5128	4609	3727				2	1033	2.09	20	
	7336	7046	6747	6419	6073	5714	5209			3	1183	3.13	25	
	8848	8657	8405	8152	7897	7614	7327	6721	5790	5	1402	5.24	33	
	10232	10066	9896	9675	9455	9234	9007	8512	7987	7½	1605	7.84	43	
300HP	6610	6001	5168	3452						1½	694	1.53	16.5	3 Days
	7641	7151	6556	5799	4740					2	777	2.15	19.3	
	9492	9142	8746	8281	7752	7130	6393			3	934	3.74	26	
	11297	11010	10710	10371	10006	9601	9149	8055	6257	5	1091	5.95	29	
	12489	12228	11966	11681	11372	11047	10677	9853	8840	7½	1196	7.85	30	
	360HP	7012	6115	4672							1½	545	1.55	
8000		7272	6410	4868						2	600	2.09	18.4	
9463		8955	8277	7528	6453	4479				3	687	3.12	19.5	
11576		11150	10740	10198	9593	8954	8138	4978		5	815	5.20	21	
13487		13108	12740	12382	11939	11443	10909	9748	7674	7½	933	7.86	27	
14975		14631	14286	13957	13631	13240	12806	11838	10796	10	1026	10.46	33	

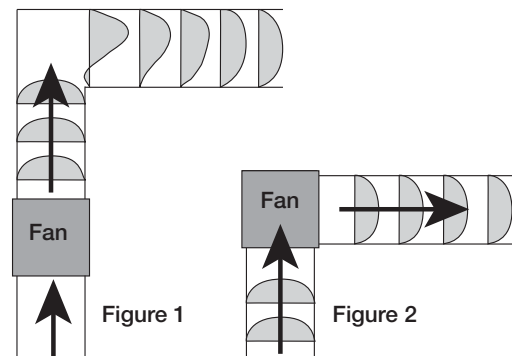
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## Side Discharge

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.

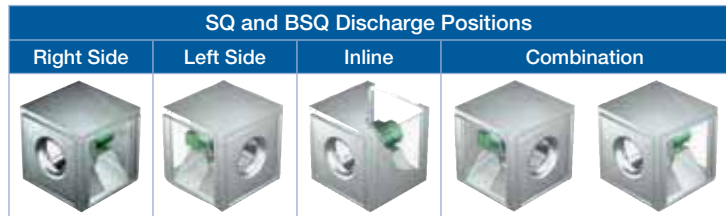
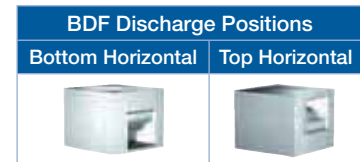
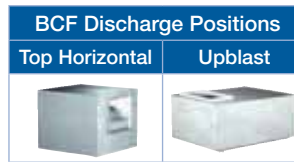


## Multiple Discharge Positions

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.

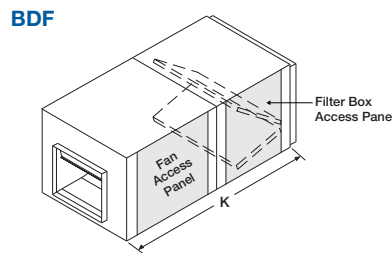


## Filter Box

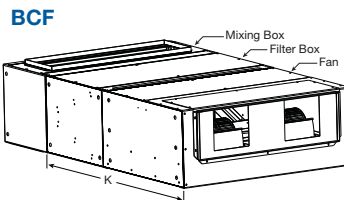
Filter boxes incorporate a V-bank design constructed of galvanized steel. Filters are available in 1 or 2 inch throwaway (pleated) or permanent (washable aluminum mesh). Side access panels are standard for easy maintenance.

All dimensions are in inches.

The K dimension equals the length of fan and filter box combined.

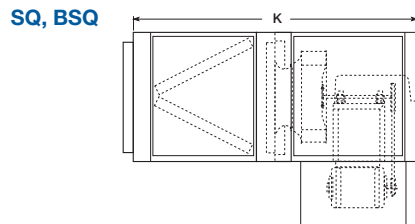


Model Size	K	Filter Size	No. of Filters
80	49 <sup>3</sup> / <sub>4</sub>	16 x 20	2
90	54 <sup>7</sup> / <sub>8</sub>	20 x 25	2
100	51 <sup>1</sup> / <sub>6</sub>	20 x 20	2
120	63 <sup>9</sup> / <sub>16</sub>	12 x 25	4
150	62 <sup>1</sup> / <sub>16</sub>	16 x 20	8
180	75 <sup>3</sup> / <sub>8</sub>	20 x 25	6
200	85 <sup>1</sup> / <sub>4</sub>	16 x 25	12



Model Size		K	Filter Size		No. of Filters	
Single Fan	Double Fan		Single Fan	Double Fan	Single Fan	Double Fan
106	206	45 <sup>1</sup> / <sub>2</sub>	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
60-75	22 <sup>1</sup> / <sub>6</sub>	10 x 12	1
80-95	45 <sup>5</sup> / <sub>8</sub>	14 x 25	1
100	47 <sup>1</sup> / <sub>4</sub>	16 x 20	2
120	52 <sup>3</sup> / <sub>16</sub>	16 x 25	2
130	46 <sup>3</sup> / <sub>8</sub>	20 x 20	2
140	52 <sup>3</sup> / <sub>8</sub>	20 x 25	2
160	51 <sup>1</sup> / <sub>6</sub>	20 x 20	4

BSQ			
Model Size	K	Filter Size	No. of Filters
70 - 80 - 90	50 <sup>5</sup> / <sub>8</sub>	14 x 25	1
100	47 <sup>1</sup> / <sub>4</sub>	16 x 20	2
120	52 <sup>3</sup> / <sub>16</sub>	16 x 25	2
130 - 130HP	46 <sup>3</sup> / <sub>8</sub>	20 x 20	2
140 - 140HP	52 <sup>3</sup> / <sub>8</sub>	20 x 25	2
160 - 160HP	51 <sup>1</sup> / <sub>6</sub>	20 x 20	4
180 - 180HP	55 <sup>1</sup> / <sub>16</sub>	20 x 25	4
200 - 200HP	66 <sup>1</sup> / <sub>16</sub>	12 x 25	3
		16 x 25	3
240 - 240HP	68 <sup>7</sup> / <sub>8</sub>	20 x 25	4
		16 x 25	4
300 - 300HP	72 <sup>1</sup> / <sub>8</sub>	20 x 25	8
		16 x 25	10
360 - 360HP	79 <sup>1</sup> / <sub>4</sub>	20 x 25	5
		16 x 25	5
		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.







UL/cUL 705 Power Ventilators  
E40001 - TCB

UL 762 Power Ventilators for Restaurant Exhaust  
Appliances - MH11745 - TCB



Greenheck Fan Corporation certifies that the Model TCB shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Construction	Best Available Program
Standard	10 Days
With UL 762	15 Days

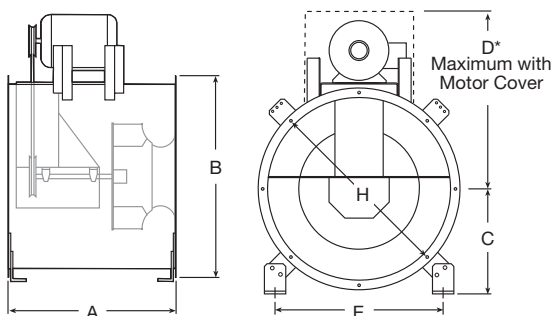
## Model TCB Belt Drive

Tubular centrifugal inline fans are the ideal choice for installations with straight-through airflow in ducted systems. The centrifugal wheels used in this design provide higher efficiencies and lower sound levels than axial type inline fans when used in medium pressure ducted systems. These fans can be mounted in any position from horizontal to vertical, allowing installation in the smallest possible space at the lowest installation cost. Also available in roof supply and roof exhaust configurations.

### Performance

Capacities range from 360 to 24,000 cfm and up to 4.5 in. wg of static pressure.

Standard Construction	
Housing - continuously welded, steel	Minimum bearing life of L <sub>10</sub> 80,000 hours (Average life - L <sub>50</sub> 400,000 hours)
Wheel - backward-inclined, aluminum	Spark B resistant construction
Flanges - inlet and outlet with mounting holes	Extended lube lines
Aluminum rub ring	Permatector™ protective powder coating
Options and Accessories	
All aluminum construction	Inspection section with removable access panel
Motor cover	NEMA rated disconnect switch
Belt guard	Dual drives
Guards - inlet, outlet	Mounting rails
Companion flanges - inlet, outlet	Decorative or protective powder coating
Inlet vane damper	UL/cUL Listed Power Ventilators
Isolators - base, hanging	UL Listed Power Ventilators for Restaurant Exhaust Appliances
Easy access construction - bolted	
Inspection door - bolted, hinged	



### Dimensions for TCB

Model Size	A	B	C	D*	E	H
9	23	21 $\frac{5}{8}$	13 $\frac{1}{4}$	21 $\frac{1}{4}$	17 $\frac{5}{8}$	18 $\frac{3}{8}$
10	23	21 $\frac{5}{8}$	13 $\frac{1}{4}$	21 $\frac{1}{4}$	17 $\frac{5}{8}$	18 $\frac{3}{8}$
12	23	21 $\frac{5}{8}$	13 $\frac{1}{4}$	21 $\frac{1}{4}$	17 $\frac{5}{8}$	18 $\frac{3}{8}$
13	24 $\frac{1}{2}$	23 $\frac{5}{8}$	13 $\frac{5}{8}$	23 $\frac{1}{4}$	19	20 $\frac{5}{8}$
16	28 $\frac{1}{2}$	27 $\frac{5}{8}$	16 $\frac{5}{8}$	26	21 $\frac{5}{8}$	24 $\frac{3}{8}$
18	31	33 $\frac{5}{8}$	18 $\frac{5}{8}$	29 $\frac{1}{4}$	26 $\frac{5}{8}$	30 $\frac{3}{8}$
22	35 $\frac{1}{2}$	39 $\frac{5}{8}$	22 $\frac{1}{2}$	33 $\frac{3}{4}$	30 $\frac{1}{2}$	36 $\frac{3}{8}$
24	42	45 $\frac{3}{4}$	24 $\frac{5}{8}$	37 $\frac{1}{4}$	34 $\frac{3}{4}$	42 $\frac{1}{2}$
30	48 $\frac{1}{2}$	52 $\frac{3}{4}$	29 $\frac{1}{2}$	42 $\frac{3}{4}$	42	48 $\frac{1}{2}$
36	54	59 $\frac{1}{4}$	31 $\frac{3}{4}$	47 $\frac{1}{4}$	46 $\frac{3}{4}$	55

All dimensions are in inches.  
\*Dimension may vary depending on motor.



### Performance for TCB

Model Size	Level	CFM	Sones @ .125	RPM / Static Pressure in inches wg							Quick Build
				.125	.25	.5	1	2	3	4	Best Available
9	1	360	5.3	846	999	1260					10 Days
		840	11.0	1688	1752	1882	2142	2629			
	2	560	8.6	1379	1480	1686	2059	2671			
		1040	18.0	2431	2482	2590	2810	3251	3648	4027	
10	1	480	4.9	858	1011	1253					10 Days
		960	9.7	1441	1541	1716	2023	2506			
	2	700	8.3	1359	1453	1630	1966	2560			
		1500	18.4	2754	2797	2883	3063	3398	3721	4026	
12	1	700	6.2	853	958	1158	1518				10 Days
		1600	13.4	1729	1781	1886	2084	2436			
	2	900	5.8	1009	1119	1315	1648	2182			
		1650	13.6	1715	1767	1887	2127	2534	2903	3233	
13	1	600	4.1	660	792	1019					10 Days
		1800	11.2	1552	1613	1729	1935	2293			
	2	1200	5.6	964	1048	1206	1479	1961			
		2000	12.8	1510	1565	1669	1868	2217	2531	2836	
16	1	1000	3.7	507	612	802					10 Days
		3750	18.5	1491	1530	1599	1725	1956			
	2	1800	6.7	777	843	969	1208	1616			
		3600	16.4	1456	1486	1553	1686	1939	2188	2416	
18	1	1500	4.3	486	568	724					10 Days
		4200	14.6	1139	1175	1244	1366	1599			
	2	2100	10.1	696	752	857	1045	1369			
		4200	19.9	1302	1331	1391	1505	1715	1906	2090	
22	1	1600	3.2	388	477						10 Days
		4400	10.9	831	869	943	1082	1340			
	2	3000	7.7	574	620	705	863	1127			
		5500	16.5	987	1015	1069	1167	1353	1525	1682	
24	1	2500	3.3	355	416	536					10 Days
		7500	19.1	865	892	946	1045	1212			
	2	4900	10.2	520	555	623	743	949			
		8400	20	849	871	914	994	1145	1283	1407	
30	1	3750	4.4	293	343						10 Days
		9750	15.0	629	655	704	788	940			
	2	5600	8.1	427	461	527	644	844			
		10400	18.5	746	765	803	877	1017	1142	1259	
36	1	5600	5.4	273	311	379					10 Days
		12800	19.1	545	565	603	673	796			
	2	9600	12.9	397	420	467	556	721			
		15600	19.0	620	635	664	722	837	943	1045	

Performance certified is for installation type B: Free inlet, Ducted outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: free inlet fan sone levels.



Patented QEI  
USA Patent No. 7048499  
China (P.R.) Patent No. CN1294361C  
Mexico Patent No. 243465

- UL/cUL 705 Power Ventilators  
E40001 - QEI-L, QEI-I/II
- UL/cUL 762 Power Ventilators for Restaurant Exhaust  
Appliances - MH11745 - QEI-I/II
- UL/cUL Power Ventilators for Smoke Control Systems  
MH17511 - QEI-I/II



Greenheck Fan Corporation certifies that the Model QEI-L and QEI-I/II shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

AMCA Licensed Sound and Air Performance is found in Greenheck's QEI-L, QEI, and QEID catalog, 00.CVI.1018 R8 10-2013

Model	Best Available Program
QEI-L, QEI-I/II All sizes	10 Days

## Model QEI-L, QEI-I/II Belt Drive

Mixed flow fans are for use in commercial and industrial applications that demand quiet, efficient and reliable air movement. Typical applications include office buildings, concert halls, libraries, parking garages, educational facilities and dormitories. Models can be used in exhaust, supply, and return-air, clean or contaminated air ventilation installations with continuous airstream temperatures up to 200°F. Units may be ceiling hung or floor mounted.

### Performance

QEI-L capacities range from 700 to 40,000 cfm and up to 5 in. wg of static pressure.

QEI-I/II capacities range from 500 to 115,000 cfm and up to 8.5 in. wg of static pressure.

#### Standard Construction

Housing - continuously welded, steel	Minimum bearing life of L <sub>10</sub> 80,000 hours (Average life - L <sub>50</sub> 400,000 hours)
Wheel - mixed flow with steel blades	
Straightening vanes	Universal mounting system (sizes 9 - 27)
Access door - bolted	Final assembly vibration analysis
Slip-fit collar for duct connection	Extended lube lines
Belt guard	Permator™ protective powder coating

#### Options and Accessories

Totally enclosed belt guard	Copper lube lines
Motor cover	Roof upblast options available (sizes 9 - 54)
Guards - inlet, outlet	Decorative or protective powder coating
Flanges - inlet, outlet	UL/cUL Listed Power Ventilators
Isolators - base, hanging	UL/cUL Listed Power Ventilators for Restaurant Exhaust Appliances
Belt tube	
NEMA rated disconnect switch	UL/cUL Listed Power Ventilators for Smoke Control Systems
Mounting rails - horizontal and all vertical applications	

### Universal Mounting

Universal QEI fans can be mounted vertically (ceiling hung or base mount) for either upward or downward airflow. Optional mounting rails are suggested for any vertical installation.

#### Sizes 9-27

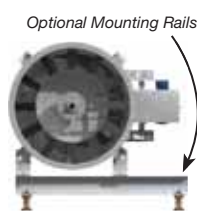
One configuration for base mounting or ceiling hung applications. Allows for field rotation of motor position.

#### Sizes 30-60

Available in horizontal and vertical configurations. Horizontal applications allow for field rotation of motor position.



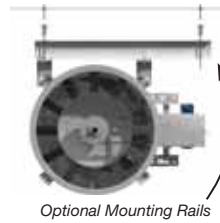
Horizontal Base Mount



Horizontal Base Mount  
with motor at C or G position



Horizontal Ceiling Hung



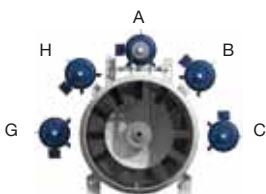
Horizontal Ceiling Hung  
with motor at C or G position



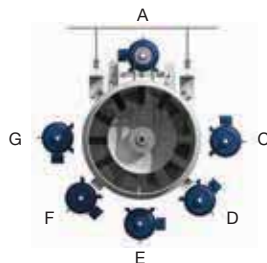
Vertical Ceiling Hung

### Motor Positions

determined from the discharge end



Horizontal Base Mount



Horizontal Ceiling Hung

### Vertical Mounting

Vertical mounting configurations, upblast or downblast, are provided with heavy-duty steel brackets welded to both ends. These brackets permit either floor or ceiling mounting on the same unit. Optional mounting rails are suggested for any vertical installation for sizes 9-27.



Vertical Upblast



## Mixed Flow - QEI-L, QEI-I/II

The mixed flow fan is a quiet, highly efficient alternative for inline ventilation. The unique axial/centrifugal hybrid wheel design captures the highly efficient “straight-through” airflow of vane axials and the lower sound levels of tubular centrifugal fans to provide an energy efficient product that won’t be a distraction in your ventilation system.

Flexible Universal Mounting System allows for field rotation of motor location.

Permatector™ coating is an industrial grade, electrostatic powder paint. Provides a durable, long lasting finish for interior or exterior applications.

Integral, spun inlet cone provides even airflow into the wheel in ducted or non-ducted applications and helps to reduce system effects associated with uneven duct velocity profiles.

Mixed flow wheels are designed with single-thickness, cambered blades to maximize free area and efficiency. Tight wheel to cone tolerances further improve the mechanical efficiency.

All motors are mounted on adjustable pivot bases for easy adjustments.

Sealed belt guard protects personnel and minimizes air leakage around motor shaft.

Extended collar on inlet and outlet allow for quick and easy slip-fit duct connections to ductwork or plenum wall.

Flexible Sleeve

Fan Duct

Cast, flange-mounted bearings are air-handling quality and use concentric bore locking systems for smooth operation. Bearings are selected for a minimum L<sub>10</sub> life in excess of 80,000 hours at the maximum fan class RPM. (Average life - L<sub>50</sub> 400,000 hours)

Aerodynamically designed straightening vanes improve performance by converting kinetic energy of swirling air into useful static pressure.

## Airflow Profiles



**Centrifugal Fan:** Two 90° deflections, before airflow exits the fan.



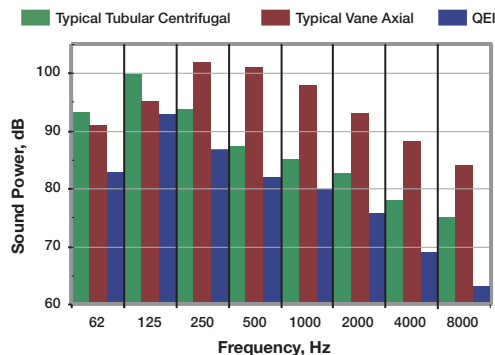
**Axial Fan:** Straight-through, nearly linear airflow.



**Mixed Flow QEI Fan:** Slight airflow deflection from straight-through.

## Lower Sound Power, Better Sound Quality

The sound quality of the QEI is as beneficial to low sound design as is the reduced overall sound power. The sound chart compares units of similar outer tube diameters at an operating point of 20,000 cfm with 1.5 inches wg of static pressure (Ps). Tubular centrifugals (green) have dominant tones in the 63 Hz through 250 Hz octave bands, while vane axials (red) have more mid to high frequency sound. The QEI does not have a dominant tone. A bystander would hear a more bland sound that is quieter than a tubular centrifugal or vane axial.





**Applications:**

- Clean Air
- Fume Exhaust
- Spark Resistant Construction

## Model TDI Direct Drive

Model TDI direct drive tube axial fans are best suited for applications moving relatively clean, dry and cool air in commercial and industrial applications.

### Performance

Capacities range from 2,100 to 48,400 cfm and up to 0.875 in. wg of static pressure.



**Applications:**

- Clean Air
- Fume Exhaust
- Spark Resistant Construction

## Model TBI-CA Belt Drive

Model TBI-CA belt drive is a good selection where the motor must be mounted out of the airstream. Used with temperatures up to 200°F or contaminated air. Three levels of construction available.

### Performance

Capacities range from 1,400 to 96,000 cfm and up to 1.25 in. wg of static pressure.



**Applications:**

- Industrial Space
- Contaminated Air
- High Temperature Process
- UL/cUL Emergency Smoke

## Model TBI-FS Belt Drive

Model TBI-FS belt drive fans have motors out of the airstream. They are a good choice for clean or contaminated airstreams with temperatures up to 400°F. Three levels of construction available.

### Performance

Capacities range from 3,900 to 76,000 cfm and up to 4 in. wg of static pressure.

UL/cUL 705 Power Ventilators  
E40001 - TDI and TBI-CA

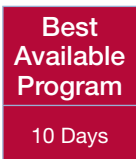
UL/cUL Power Ventilators for Smoke Control Systems  
MH17511 - TBI-FS



Greenheck Fan Corporation certifies that the Model TDI and TBI-CA shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.



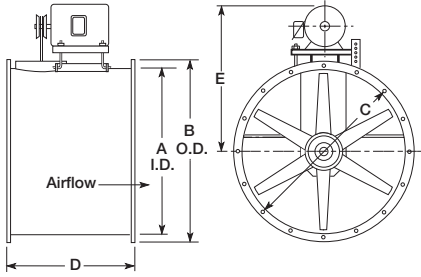
Greenheck Fan Corporation certifies that the Model TBI-FS shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.



Standard Construction	TDI	TBI-CA	TBI-FS
Housing - continuously welded, steel	■	■	■
Cast aluminum hub and blades - airfoil	■	■	
Fabricated steel hub and blades - airfoil			■
Belt tube and bearing cover		■	■
Minimum bearing life of L <sub>10</sub> 80,000 hours		■	■
Universal mounting system	■	■	■
Extended lubrication lines	■	■	■
Permatecor™ protective powder coating	■	■	■
Options and Accessories	TDI	TBI-CA	TBI-FS
Motor cover		■	■
Guards - inlet, outlet	■	■	■
Belt guard		■	■
Companion flanges	■	■	■
Isolators - base, hanging, spring	■	■	■
Easy access construction - bolted		■	■
Inspection door - bolted, hinged	■	■	■
Inspection section with removable access panel	■	■	■
NEMA rated disconnect switch	■	■	■
Mounting rails		■	■
Shaft seal		■	■
Inlet bell	■	■	■
Decorative or protective powder coating	■	■	■
Continuous Duty High Temperature			■
UL/cUL Listed Power Ventilators	■	■	■
UL/cUL Power Ventilators for Smoke Control Systems			■



### Dimensions for TDI, TBI-CA, TBI-FS



TDI • Level 3					TBI-CA • Level 3					TBI-FS • Levels 3 and 4						
Model Size	A (ID)	B (OD)	C (BC)	D	Model Size	A (ID)	B (OD)	C (BC)	D	E	Model Size	A (ID)	B (OD)	C (BC)	D	E
18	18 <sup>3</sup> / <sub>8</sub>	21 <sup>1</sup> / <sub>16</sub>	19 <sup>3</sup> / <sub>4</sub>	18	18	18 <sup>3</sup> / <sub>8</sub>	21 <sup>1</sup> / <sub>16</sub>	19 <sup>3</sup> / <sub>4</sub>	22	21 <sup>3</sup> / <sub>4</sub>	3H24	24 <sup>3</sup> / <sub>8</sub>	27 <sup>1</sup> / <sub>8</sub>	25 <sup>3</sup> / <sub>4</sub>	23	26
20	20 <sup>3</sup> / <sub>8</sub>	23 <sup>1</sup> / <sub>16</sub>	21 <sup>1</sup> / <sub>4</sub>	19	20	20 <sup>3</sup> / <sub>8</sub>	23 <sup>1</sup> / <sub>16</sub>	21 <sup>1</sup> / <sub>4</sub>	22	23 <sup>3</sup> / <sub>4</sub>	4H24	24 <sup>3</sup> / <sub>8</sub>	27 <sup>1</sup> / <sub>8</sub>	25 <sup>3</sup> / <sub>4</sub>	28	28
24	24 <sup>3</sup> / <sub>8</sub>	27 <sup>1</sup> / <sub>16</sub>	25 <sup>3</sup> / <sub>4</sub>	19	24	24 <sup>3</sup> / <sub>8</sub>	27 <sup>1</sup> / <sub>16</sub>	25 <sup>3</sup> / <sub>4</sub>	23	26	3H30	30 <sup>3</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>8</sub>	32	24	29 <sup>1</sup> / <sub>4</sub>
30	30 <sup>3</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>16</sub>	32	21	30	30 <sup>3</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>16</sub>	32	24	29 <sup>1</sup> / <sub>4</sub>	4H30	30 <sup>3</sup> / <sub>8</sub>	33 <sup>1</sup> / <sub>8</sub>	32	33	32 <sup>3</sup> / <sub>4</sub>
36	36 <sup>3</sup> / <sub>8</sub>	39 <sup>1</sup> / <sub>16</sub>	38	21	36	36 <sup>3</sup> / <sub>8</sub>	39 <sup>1</sup> / <sub>16</sub>	38	29	33 <sup>3</sup> / <sub>4</sub>	3H36	36 <sup>3</sup> / <sub>8</sub>	39 <sup>1</sup> / <sub>8</sub>	38	29	33 <sup>3</sup> / <sub>4</sub>
42	42 <sup>1</sup> / <sub>2</sub>	45 <sup>3</sup> / <sub>4</sub>	44 <sup>3</sup> / <sub>16</sub>	27	42	42 <sup>1</sup> / <sub>2</sub>	45 <sup>3</sup> / <sub>4</sub>	44 <sup>3</sup> / <sub>16</sub>	30	37 <sup>1</sup> / <sub>4</sub>	4H36	36 <sup>3</sup> / <sub>8</sub>	39 <sup>1</sup> / <sub>8</sub>	38	34	35 <sup>1</sup> / <sub>4</sub>
48	48 <sup>1</sup> / <sub>2</sub>	52 <sup>3</sup> / <sub>4</sub>	50 <sup>3</sup> / <sub>4</sub>	27	48	48 <sup>1</sup> / <sub>2</sub>	52 <sup>3</sup> / <sub>4</sub>	50 <sup>3</sup> / <sub>4</sub>	33	40 <sup>1</sup> / <sub>2</sub>	3H42	42 <sup>1</sup> / <sub>2</sub>	45 <sup>3</sup> / <sub>4</sub>	44 <sup>1</sup> / <sub>4</sub>	30	37 <sup>1</sup> / <sub>4</sub>
					54	55	59 <sup>1</sup> / <sub>4</sub>	57 <sup>1</sup> / <sub>4</sub>	37 <sup>1</sup> / <sub>2</sub>	47 <sup>1</sup> / <sub>4</sub>	4H42	42 <sup>1</sup> / <sub>2</sub>	45 <sup>3</sup> / <sub>4</sub>	44 <sup>1</sup> / <sub>4</sub>	39	40
					60	61	65 <sup>1</sup> / <sub>4</sub>	63 <sup>1</sup> / <sub>4</sub>	40	50 <sup>3</sup> / <sub>4</sub>	3H48	48 <sup>1</sup> / <sub>2</sub>	52 <sup>3</sup> / <sub>4</sub>	50 <sup>3</sup> / <sub>4</sub>	33	40 <sup>1</sup> / <sub>2</sub>
											4H48	48 <sup>1</sup> / <sub>2</sub>	52 <sup>3</sup> / <sub>4</sub>	50 <sup>3</sup> / <sub>4</sub>	44	45 <sup>1</sup> / <sub>2</sub>
											3H54	55	59 <sup>1</sup> / <sub>4</sub>	57 <sup>1</sup> / <sub>4</sub>	37 <sup>1</sup> / <sub>2</sub>	47 <sup>1</sup> / <sub>4</sub>
											4H54	55	59 <sup>1</sup> / <sub>4</sub>	57 <sup>1</sup> / <sub>4</sub>	48	49 <sup>1</sup> / <sub>4</sub>

All dimensions are in inches.

ID = Inside Diameter  
 OD = Outside Diameter  
 BC = Bolt Center

### Performance for TDI • Level 3

Model Size	Blades Pitch	Min/Max RPM	CFM / Static Pressure in inches wg					
			0	.125	.25	.5	.75	.875
18	06-30	1140	3566	3230				
	06-34	1725	5873	5657	5417	4748		
20	03-35	1140	4758	4103	3279			
	04-29	1725	7018	6682	6354	5594		
24	06-30	860	6215	5391	4313			
	06-35	1140	9028	8398	7667			
	06-31	1725	12599	12226	11837	10922	9919	9380
30	06-33	860	12478	11175	9659			
	06-30	1140	15599	14762	13793			
36	04-28	1725	20633	19895	19174	17717	15818	
	06-39	860	21839	20153	18236			
	06-30	1140	26098	24952	23759	21095		
42	04-26	1725	33394	32488	31582	29765	26395	
	06-35	680	24214	21392	18361			
	06-25	860	27069	25358	23243	17849		
48	06-35	1140	40594	39128	37337	34109		
	06-30	680	32194	28973	24774			
	06-24	860	38105	35525	32712	25851		
	06-21	1140	48407	46587	44918	41348		

Performance certified is for installation type B: Free inlet, Ducted outlet.  
 Performance ratings do not include the effects of appurtenances (accessories).

### Performance for TBI-CA • Level 3

Model Size	Min/Max RPM	CFM / Static Pressure in inches wg					
		.125	.25	.5	.75	1	1.25
3L18	1890	1914	1659				
	3000	3225	3103	2825	2427	1868	1253
3M18	1610	2171	1937				
	2710	3874	3758	3502	3209	2832	
3H18	1189	2698	2331				
	2290	5583	5450	5152	4781	4358	
3H20	1056	3126	2618				
	2225	7186	7032	6673	6234	5761	5483
3H24	977	4931	4223				
	1990	10858	10619	10085	9422	8718	7926
3H30	848	7473	6405				
	1815	17648	17222	16278	15321	14327	13167
3H36	763	10388	8620				
	1710	25929	25301	23973	22609	21122	19364
3H42	594	13266	10728				
	1326	32585	31815	30334	28652	26506	23892
3H48	490	16808	14083				
	1024	38804	37720	35371	33046	30421	25718
3H54	476	27099	23391				
	910	56134	54567	51229	47707	42975	
3H60	507	37656	33757				
	970	76735	74906	71249	67412	62911	57746

Performance certified is for installation type B: Free inlet, Ducted outlet.  
 Performance ratings do not include the effects of appurtenances (accessories).

### Performance for TBI-FS • Levels 3 and 4

Model Size	Min/Max RPM	CFM / Static Pressure in inches wg					
		.125	.5	1.5	2	3	4
3L24	971	5425					
3H24	1988	9990	9416	6827			
4L24	1122		5439				
4H24	2707		12829	11825	11228	9161	5907
3L30	794	8256					
3H30	1834	14545	13838	11006			
4L30	870		7653				
4H30	2306		20075	18271	17201	13614	9546
3L36	660	11834					
3H36	1476	23800	22460	16514			
4L36	782		11824				
4H36	1824		27723	25857	24376	20432	13643
3L42	611	16553					
3H42	1271	26614	25157	17430			
4L42	689		15343				
4H42	1607		33454	30713	29526	24753	15561
3L48	479	18483					
3H48	1039	30969	28139				
4L48	795		29849				
4H48	1509		47501	44702	42568	37957	30148
3L54	423	25121					
3H54	999	48511	46357	35171			
4L54	675		39677				
4H54	1337		61340	57710	56126	48925	36972

Performance certified is for installation type B: Free inlet, Ducted outlet.  
 Performance ratings do not include the effects of appurtenances (accessories).



Arrangement 9



UL/cUL 705 Power Ventilators  
E40001 - VAB



Greenheck Fan Corporation certifies that the Model VAB shown herein is licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and comply with the requirements of the AMCA Certified Ratings Program.

AMCA Licensed Air Performance is found in Greenheck's Vane Axial Performance Supplement, 00.CVI.NB004 R3 8-2011

<b>Model</b>	<b>Best Available Program</b>
Class I Sizes 18 - 48	10 Days

## Model VAB Belt Drive

Vane axial fans feature the advantages of final system balancing, motor access, manually adjustable blade pitch, economical future upgrading, and the capability to operate in airstream temperatures up to 200°F.

### Performance

Capacities range from 2,000 to 70,000 cfm and up to 7 in. wg of static pressure.

Standard Construction
Housing - continuously welded, steel
Cast aluminum hub and blades
Straightening vanes
Final assembly vibration analysis
Extended lubrication lines
Permatecor™ protective powder coating
Options and Accessories
Motor cover
Guards - inlet, outlet
Belt guard
Companion flanges - inlet, outlet
Inlet/outlet cone
Isolators
Inspection section
NEMA rated disconnect switch
Inlet bell
Horizontal or vertical mounting options
Decorative or protective powder coating
UL/cUL Listed Power Ventilators

### Mounting Options

#### Horizontal Mounting Legs

Heavy-gauge steel support legs welded to the fan are punched to accept neoprene or spring vibration isolators.



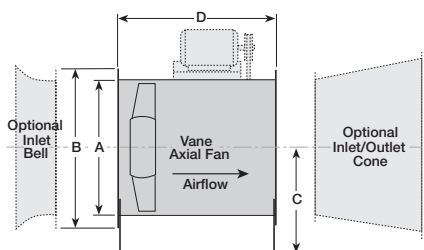
#### Horizontal Suspension Brackets

Brackets welded to the fan housing for horizontal ceiling hung applications are punched to accept hanging neoprene or spring isolators.



#### Vertical Base or Suspension Brackets

Brackets welded to the fan housing for vertical base mount or vertical ceiling hung applications are punched to accept vibration isolators. Customer must specify one of the mounting arrangements shown below.



### Dimensions for VAB

Model Size	A	B	C	D
18	18¾	21¾	13½	32
20	20¾	23¾	15	32
24	24¾	27¾	17½	36
30	30¾	33¾	21¼	40
36	36¾	39¾	25	40
42	42½	47	29	44
48	48½	53	34	48

All dimensions are in inches.





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- 1 Mixed Flow Fan
- 2 Combination Louver/ Damper
- 3 Utility Fan
- 4 Spun Aluminum Roof Exhaust
- 5 Packaged Ventilation System
- 6 Laboratory Exhaust System
- 7 Centrifugal Inline Fan
- 8 Energy Recovery Ventilator
- 9 Spun Aluminum Upblast Exhaust Fan
- 10 Centrifugal Supply Fan
- 11 Louvered Equipment Screen
- 12 Make-Up Air
- 13 Centrifugal Inline Fan/ Fire Smoke Damper
- 14 Kitchen Hood
- 15 Utility Distribution System

Today's hospital ventilation needs are more dynamic and demanding than ever, with increased focus on energy efficiency and sustainable building design concepts. To meet complex and interrelated demands throughout a medical facility, you must equip for a wide variety of critical, specialized applications — public areas, offices, surgery suites, highly sensitive equipment, patient rooms, laboratories, kitchen and cafeteria. Only an integrated HVAC system can provide the reliability and performance a hospital needs. Greenheck offers a comprehensive line of products, designed to work together, effectively, with energy efficiency and quiet operation, and the added benefit of simplified installation to save time and costs. We offer more products with certifications from AMCA, UL, ETL, AHRI and CSA than any other manufacturer. And, many Greenheck products can help attain LEED credits. Take a holistic and sustainable approach for your hospital project — contact your Greenheck representative today.

**Learn more at [greenheck.com/4hospital](http://greenheck.com/4hospital)**

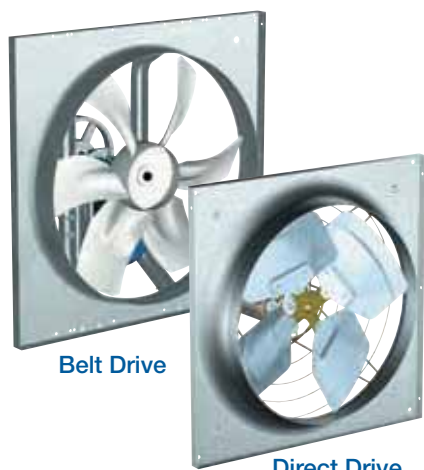
Fans & Ventilators | Centrifugal & Vane Axial Fans | Energy Recovery Ventilators  
Packaged Ventilation Systems | Make-up Air Units | Kitchen Ventilation Systems  
Dampers | Louvers | Lab Exhaust Systems | Coils

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Belt Drive

Direct Drive

UL/cUL 705 Power Ventilators  
E40001 - SE1/SS1, SE2/SS2, SCE3/SCS3, SBE/SBS,  
SBCE/SBCE



UL/cUL Listed 705 is standard on In Stock SE1 and SBE models.



Greenheck Fan Corporation certifies that the Model S1, S2, SC3, SB and SBC shown herein are licensed to bear the AMCA seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.

Model	Best Available Program
SE-8 through 12, 16 and 20	In Stock
SBE-24 through 36	
All SE/SS, SCE/SCS, SBE/SBS, SBCE/SBCE up through size 48	3 Days
All SE/SS, SCE/SCS, SBE/SBS, SBCE/SBCE sizes 54 and larger	5 Days

## Model SE, SS, SCE, SCS Direct Drive and SBE, SBS, SBCE, SBCE Belt Drive

Sidewall propeller fans are designed to **exhaust** or **supply** high volumes of air from commercial and industrial buildings. Fan panels allow for electrical passage to either side of panel for easy wiring.

		Direct Drive		Belt Drive		
Standard Construction		SE SS	SCE SCS	SBE SBS	SBCE SBCE	
Fan panel and drive frame - galvanized steel		■	■	■	■	
Propeller construction	Level 1	■				
				■		
	Level 2	■		■		
				■		
Level 3				■		
	Cast aluminum		■		■	
Corrosion-resistance fasteners		■	■	■	■	
Reversible			■		■	
Ball bearing motor - 1/4 hp and larger		■	■	■	■	
Three speed motor (sizes 8 through 12)		■				
Adjustable motor pulley				■	■	
Options and Accessories		Stock	SE SS	SCE SCS	SBE SBS	SBCE SBCE
Vari-Green® motor - 80% turndown, 85% efficient <i>Available as standard on select sizes</i>		✓	■			
Dampers		✓	■	■	■	■
Wall housing - up through size 24		✓	■	■	■	■
Wall collar - up through size 36		✓	■	■	■	■
Weatherhood 45° - up through size 24 and size 36		✓	■	■	■	■
Weatherhood 90° - up through size 16 and size 24		✓	■	■	■	■
Motor side guard - size 20 through 30		✓	■	■	■	■
OSHA motor side guard - size 16		✓	■	■	■	■
Louver/Fire damper - size 20 through 42					■	■
Damper guard			■	■	■	■
Horizontal mounting			■	■	■	■
Wiring - pigtails			■	■	■	■
Lube lines					■	■
Filters - 2 inch aluminum, washable - <i>supply only</i>			■	■	■	■
NEMA rated disconnect switch			■	■	■	■
Dual drives					■	■
Relubricatable bearings					■	■
OSHDP rated			■	■	■	■
Decorative or protective powder coating			■	■	■	■
UL/cUL Listed Power Ventilators			■	■	■	■



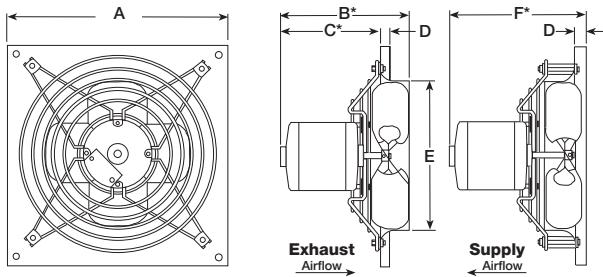
VARI GREEN Motor

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

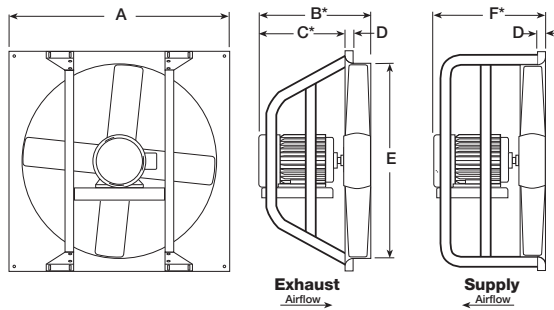


## Direct Drive

Level 1: Size 8-12



Level 1: Size 12-24  
 Level 2: Sizes 16-54  
 Level 3: Sizes 20-54



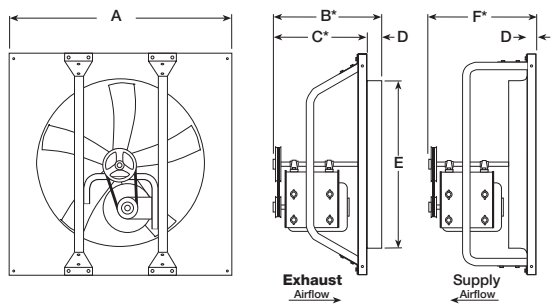
### Dimensions for Direct Drive

Model Size	Fan Panel		Airflow			
	A	D	Exhaust		Supply	
	Sq. Size	Flange	B*	C*	E	F*
8	13	1	7	5	8 <sup>3</sup> / <sub>8</sub>	8
10	15	1	8 <sup>3</sup> / <sub>4</sub>	5	10 <sup>3</sup> / <sub>8</sub>	8
12	18	1	10 <sup>3</sup> / <sub>4</sub>	8 <sup>3</sup> / <sub>4</sub>	12 <sup>3</sup> / <sub>8</sub>	13 <sup>3</sup> / <sub>8</sub>
14	20	1	11 <sup>3</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>2</sub>	14 <sup>3</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>4</sub>
16	22	1	13 <sup>1</sup> / <sub>2</sub>	10 <sup>1</sup> / <sub>4</sub>	16 <sup>3</sup> / <sub>8</sub>	14
18	24	1	14	10 <sup>7</sup> / <sub>8</sub>	18 <sup>3</sup> / <sub>8</sub>	14 <sup>1</sup> / <sub>4</sub>
20	26	1	17 <sup>1</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>2</sub>	20 <sup>1</sup> / <sub>2</sub>	18
24	32	1 <sup>1</sup> / <sub>4</sub>	20	13 <sup>1</sup> / <sub>2</sub>	24 <sup>3</sup> / <sub>8</sub>	21
30	38	1 <sup>1</sup> / <sub>4</sub>	20 <sup>1</sup> / <sub>2</sub>	16 <sup>3</sup> / <sub>8</sub>	30 <sup>5</sup> / <sub>8</sub>	21 <sup>3</sup> / <sub>4</sub>
36	44	2	20 <sup>1</sup> / <sub>2</sub>	16 <sup>3</sup> / <sub>8</sub>	36 <sup>5</sup> / <sub>8</sub>	28
42	50	2	26	18 <sup>1</sup> / <sub>4</sub>	42 <sup>5</sup> / <sub>8</sub>	28
48	56	2	26 <sup>5</sup> / <sub>8</sub>	20 <sup>5</sup> / <sub>8</sub>	49 <sup>1</sup> / <sub>4</sub>	28 <sup>1</sup> / <sub>2</sub>
54	62	2	28	22 <sup>7</sup> / <sub>16</sub>	55 <sup>5</sup> / <sub>8</sub>	30 <sup>5</sup> / <sub>8</sub>

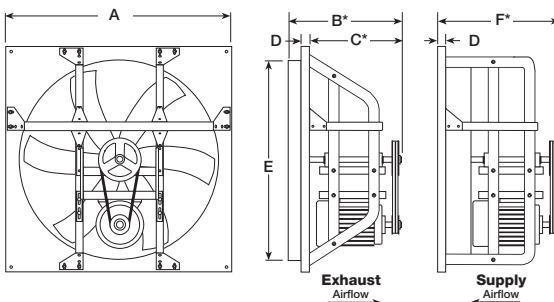
All dimensions are in inches.  
 \*Varies with motor selection.

## Belt Drive

Level 1: Sizes 20-54  
 Level 2: Sizes 20-60  
 Level 3: Sizes 24-30



Level 3: Sizes 36-72



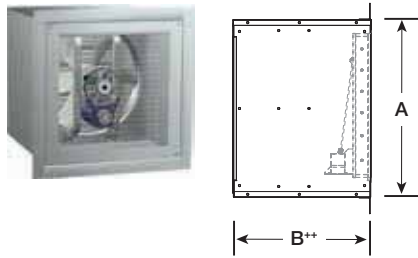
### Dimensions for Belt Drive

Model Size	Fan Panel		Exhaust				Supply		
	Sq. Size	Flange	Levels 1 and 2		Level 3		All Levels	Levels 1 and 2	Level 3
	A	D	B*	C*	B*	C*	E	F*	F*
20	26	1	19 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>4</sub>	—	—	20 <sup>1</sup> / <sub>2</sub>	20	—
24	32	1 <sup>1</sup> / <sub>4</sub>	19 <sup>1</sup> / <sub>2</sub>	16 <sup>3</sup> / <sub>8</sub>	19	15 <sup>5</sup> / <sub>8</sub>	24 <sup>5</sup> / <sub>8</sub>	20	20 <sup>1</sup> / <sub>2</sub>
30	38	1 <sup>1</sup> / <sub>4</sub>	21 <sup>1</sup> / <sub>2</sub>	17 <sup>1</sup> / <sub>4</sub>	21 <sup>1</sup> / <sub>2</sub>	17 <sup>1</sup> / <sub>4</sub>	30 <sup>5</sup> / <sub>8</sub>	21	20
36	44	2	21 <sup>1</sup> / <sub>2</sub>	16 <sup>1</sup> / <sub>2</sub>	28	23	36 <sup>5</sup> / <sub>8</sub>	22	27
42	50	2	25	20	28	23	42 <sup>3</sup> / <sub>4</sub>	25 <sup>1</sup> / <sub>2</sub>	29 <sup>1</sup> / <sub>4</sub>
48	56	2	25	19	31 <sup>1</sup> / <sub>2</sub>	27 <sup>1</sup> / <sub>2</sub>	48 <sup>3</sup> / <sub>4</sub>	25 <sup>1</sup> / <sub>2</sub>	30 <sup>1</sup> / <sub>2</sub>
54	62	2	26	20 <sup>1</sup> / <sub>2</sub>	35 <sup>3</sup> / <sub>4</sub>	30 <sup>1</sup> / <sub>4</sub>	55 <sup>1</sup> / <sub>4</sub>	24	36 <sup>1</sup> / <sub>4</sub>
60	68	2	28	21 <sup>1</sup> / <sub>16</sub>	35	28 <sup>7</sup> / <sub>16</sub>	61 <sup>1</sup> / <sub>4</sub>	24	35 <sup>1</sup> / <sub>2</sub>
72	82	2 <sup>1</sup> / <sub>8</sub>	—	—	35	28 <sup>1</sup> / <sub>4</sub>	73 <sup>1</sup> / <sub>4</sub>	—	35 <sup>1</sup> / <sub>2</sub>

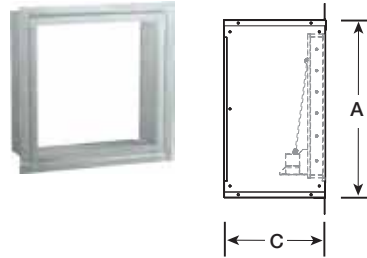
All dimensions are in inches.  
 \*Varies with motor selection.

## Options and Accessories for Sidewall Propeller Fans

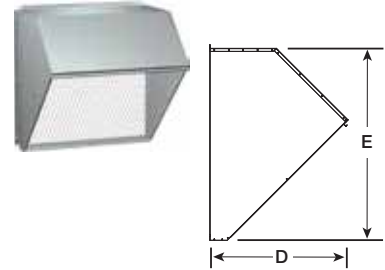
## Wall Housing



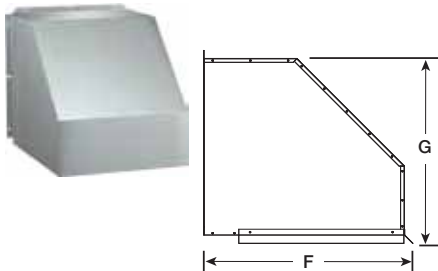
## Wall Collar



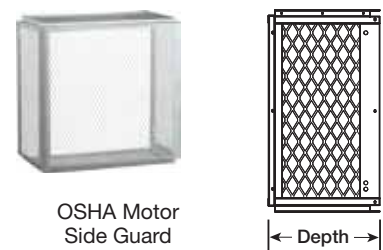
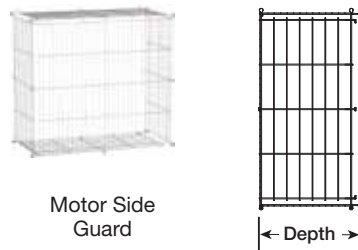
## 45° Weatherhood



## 90° Weatherhood

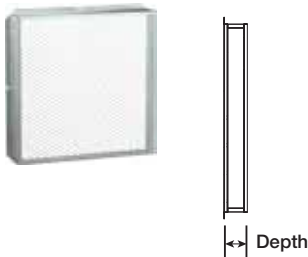


## Motor Side Guards



64

## Damper Guard

Optional  
Direct Drive  
ConfigurationOptional  
Belt Drive  
Configuration

## Dimensions

Model Size	Wall Opening*	Wall Housing & Collars			Weatherhood						Motor Side Guard Depth	OSHA Motor Side Guard Depth	Damper Square	Damper Guard Depth
		Square	Length		Width	45°		90°						
			A	B++		C	D	E	F	G				
8	14¼	13¼	19	16⅞	10½	13¼	11¼	16⅞	12	—	9⅞	10	5½	
10	16¼	15¼	19	16⅞	12½	14⅞	13⅞	18½	14	—	10	12	6½	
12	19¼	18¼	23	16⅞	14½	16⅞	15⅞	20⅞	16⅞	—	12	14	5⅞	
14	21¼	20¼	26	18⅞	16½	17½	17⅞	22½	18⅞	—	12	16	6⅞	
16	23¼	22¼	27	18⅞	18½	19⅞	19⅞	25	20⅞	—	12	18	6¾	
18	25¼	24¼	28	18⅞	20½	22	21⅞	27½	22⅞	—	12	20	6	
20	27¼	26¼	32	18⅞	22½	24¾	23⅞	29¾	24⅞	17⅞	17¾	22	6½	
24	33¼	32¼	37	18⅞	29⅞	26⅞	30⅞	36	31¼	19½	20	26	6⅞	
30	39¼	38¼	38	18⅞	35⅞	29⅞	36½	40⅞	37⅞	22½	21¾	32	6½	
36	45¼	44¼	39	18¼	41⅞	33	42½	45½	43⅞	23⅞	24¼	38	6¾	
42	51¼	50⅞	44	18¼	47⅞	35¾	48½	49¼	49⅞	25⅞	28½	44	10	
48	57¼	56⅞	44	18⅞	53¼	40⅞	54⅞	55½	56	28⅞	28¼	50	9	
54	63¼	62⅞	52	20⅞	59½	44¾	60⅞	61¼	62¼	—	34¼	56	7½	
60	69¼	68⅞	54	21	65⅞	48⅞	67	66½	68⅞	—	34¼	62	7¼	
72	84¼	83⅞	60	22	78⅞	53¼	79½	72⅞	80⅞	—	34¼	74	7½	

All dimensions are in inches.

\*Opening is for fan and accessories to fit.

++Indicates short wall housing dimension. Add 6 inches for long wall housing. Add 10 inches for louver/fire damper.

Performance for SE, SS • Levels 1, 2 Exhaust and Supply  
 Performance for SCE, SCS • Level 3 Exhaust and Supply



Model Size	Level Blades Pitch	CFM / Static Pressure in inches wg										Motor HP	Fan RPM	Max BHP	Sones @ 0	Quick Build	In Stock
		0	.1	.125	.2	.25	.375	.5	.625	.75	1					Best Available	Direct Drive
8	1-440	311	126	100								1/100	1050	50W	1.5	3 Days	SE1-8-DGEX-QD
		399	256	198	138							1/40	1350	55W	3.5		
		459	351	307	198	167						1/25	1550	75W	4.9		
		511	435	387	261	220						1/6	1750	32.8	7.6		
10	1-440	626	361									1/40	1050	105W	3.2	3 Days	SE1-10-DGEX-QD
		804	655	615								1/20	1350	135W	4.9		
		924	800	763	641							1/12	1550	170W	5.9		
		1029	921	889	792	707						1/6	1750	73.1	6.9		
12	1-432	981	744	678	463	383						1/20	1050	125W	4.3	3 Days	SE1-12-DGEX-QD
		1262	1097	1037	886	798	540					1/12	1350	170W	6.0		
		1449	1309	1271	1129	1042	860	614	478			1/8	1550	190W	7.5		
		1636	1515	1481	1365	1282	1085	947	706	585		1/4	1750	0.27	8.7		
	1-436	1621	1513	1471	1346	1230	639					1/4	1750	0.13	17.0		
14	1-440	1189	919	711	551	408						1/8	860	0.07	5.9	3 Days	-
		1604	1406	1350	1207	908	720					1/6	1160	0.15	7.3		
		2386	2234	2205	2119	2048	1877	1435	1282	1163	828	1/2	1750	0.55	11.0		
	1-436	2734	2615	2585	2487	2422	2192	1829	1220			1/3	1750	0.39	14.8		
16	1-436	2003	1732	1621	1037	849						1/8	860	0.12	5.0	3 Days	-
	2-435	2522	2239	2150	1732	1434						1/6	1160	0.20	11.6		
	1-436	2702	2512	2461	2281	2067	1359	1049				1/4	1160	0.29	9.5		
	2-430	3531	3344	3297	3155	3058	2750	2303	1642			1/2	1750	0.56	23		
	1-436	4076	3954	3923	3828	3760	3591	3349	2902	2298		3/4	1750	0.89	16.6		SE1-16-VG7X-QD
18	1-436	2778	2319	2102	1385	1108	912					1/6	860	0.19	9.2	3 Days	-
	2-435	3658	3311	3208	2850	2556						1/3	1160	0.35	16.2		
	1-436	3747	3466	3370	3034	2732	1727	1363				1/3	1160	0.45	12.6		
	2-421	4177	4015	3975	3807	3683	3416	3059	2558			1/2	1750	0.59	22		
	1-429	4885	4729	4690	4565	4460	4196	3926	3460	2984		3/4	1750	0.88	17.4		
20	1-436	3888	3523	3420	2918	2237	1873					1/4	860	0.29	11.7	3 Days	-
	2-430	4468	4087	3989	3626	3281						1/3	1160	0.40	18.6		
	3-630	4394	4115	4049	3809	3635	3039					1/2	1160	0.55	25		
	1-436	5245	4991	4926	4697	4525	3863	2920	2650			1/2	1160	0.70	14.4		
	1-420	6005	5797	5745	5564	5434	5106	4739	4327	3763		1	1750	1.26	42		
	1-432	7115	6962	6924	6809	6733	6518	6292	6016	5688		1 1/2	1750	1.73	26		
	2-435	7266	6980	6909	6691	6543	6115	5453	4658			1 1/2	1750	1.76	35		
24	3-630	5924	5401	5252	4653	4184						1/2	860	0.45	18.2	3 Days	-
	1-437	6136	5764	5631	5150	4720						1/2	860	0.58	11.6		
	2-630	6439	5768	5599	4993	4387						1/2	860	0.54	18.8		
	1-432	6745	6399	6313	6064	5830	5007					3/4	1160	0.83	14.7		
	2-625	7917	7491	7391	7060	6781	6035	4850	2745			1	1160	1.13	25		
	3-630	7991	7644	7535	7206	6984	6203	5304				1	1160	1.10	28		
	2-615	9537	9310	9253	9083	8961	8646	8315	7915	7508	6559	2	1750	2.28	41		
	3-620	9721	9501	9446	9281	9159	8844	8488	8126	7757	6886	2	1750	2.37	53		
30	3-627	11192	10384	10182	9484	8897	6869					1	860	1.01	23	3 Days	-
	2-635	13290	12505	12291	11647	11060	7951					1 1/2	860	1.80	32		
	2-620	13905	13434	13316	12939	12665	11954	11144	10136	8640		2	1160	2.29	33		
	3-625	14779	14160	14005	13537	13220	12376	11276	9927			2	1160	2.32	40		
36	2-617	15162	14491	14324	13810	13442	12117	10512	7704	5270		1 1/2	860	1.61	31	3 Days	-
	3-627	19898	18735	18408	17299	16428	13942					2	860	2.30	31		
	2-614	18400	17945	17832	17490	17263	16517	15787	15003	13722	10993	3	1160	3.29	40		
	3-617	21781	20957	20751	20134	19710	18607	17398	15999	14133		3	1160	3.54	49		
42	3-629	23088	21265	20790	19236	18050						2	690	2.40	31	3 Days	-
	3-620	24242	23108	22791	21840	21181	19111	16580	12206			3	860	3.11	36		
	2-627	28811	27924	27702	27037	26533	25261	24002	22494	20376	13589	5	860	5.95	41		
48	3-625	32762	30379	29640	27385	25882	20889					3	690	3.29	41	3 Days	-
	2-422	34332	33166	32874	31944	31257	29594	27990	25869	23518		5	860	5.91	53		
	3-630	43290	41324	40745	38989	37745	34864	30731				7 1/2	860	7.66	53		
54	2-420	41542	39736	39284	38011	37177	34995	32089	28911	25289	14535	5	690	5.76	52	5 Days	-
	3-328	44402	41230	40512	38189	36133	30263	22490				5	690	5.82	40		
	2-416	45612	44465	44179	43319	42745	40967	39103	37130	34973	30171	7 1/2	860	8.68	54		
	3-323	51206	48980	48424	46616	45404	42712	39307	35027	29939		7 1/2	860	9.00	50		

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). \*Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.



## Performance for SBE, SBS • Levels 1L, 2L, 3L Exhaust and Supply

Model Size	Level	CFM / Static Pressure in inches wg									Motor HP	Fan RPM	Max BHP	Sones @ FA	Quick Build	In Stock			
		0	.1	.125	.2	.25	.375	.5	.625	.75					Best Available	Belt Drive			
20	1L	4404	3795	3672							1/4	861	0.30	14.3	3 Days	—			
		4844	4271	4156	3648						1/3	947	0.40	16.1					
		5550	5021	4919	4621	4269					1/2	1085	0.60	17.9					
	5550	5021	4919	4621	4269					1/2	1085	0.60	17.9						
24	1L	5550	5021	4919	4621	4269					1/2	1085	0.60	17.9	3 Days	SBE-1L24-LMDX-QD			
		6348	5853	5764	5496	5325	4479				3/4	1241	0.90	22					
		5569	4803	4551							1/4	593	0.30	11.8					
		6133	5466	5256							1/3	653	0.40	12.8					
	7025	6455	6300	5723	4939					1/2	748	0.60	14.8						
	7598	7079	6935	6454	5948					3/4	809	0.76	17.4						
	7025	6455	6300	5723	4939					1/2	748	0.60	14.8						
	8039	7555	7419	6989	6654					3/4	856	0.90	21						
	8847	8409	8294	7925	7643	6476				1	942	1.20	28						
	9260	8842	8738	8385	8139	7205				1½	986	1.37	33						
30	1L	8062	7592	7463	7034	6634	5492				3/4	1024	0.90	24	3 Days	SBE-1L30-LMDX-QD			
		8873	8454	8337	7977	7686	6668	5569			1	1127	1.20	27					
		7860	6394	5880							1/4	475	0.30	11.6					
		8654	7427	6970							1/3	523	0.40	13.0					
	9895	8898	8583	7366						1/2	598	0.60	15.5						
	11335	10496	10253	9332	8622					3/4	685	0.90	18.7						
	11517	10696	10456	9570	8874					1	696	0.94	19.2						
	11335	10496	10253	9332	8622					3/4	685	0.90	18.7						
	12477	11736	11519	10806	10175					1	754	1.20	21						
	14297	13650	13489	12923	12522	11132				1½	864	1.81	27						
	15720	15132	14985	14503	14152	13039	11760			2	950	2.41	32						
	15222	14568	14404	13905	13549	12519	10795			2	961	2.40	29						
17423	16852	16709	16281	15991	15201	14241	12775	11254	3	1100	3.61	41							
36	1L	11078	8915	8018							1/3	384	0.41	11.8	3 Days	SBE-1L36-LMDX-QD			
		12636	10809	10290							1/2	438	0.61	13.6					
		14425	12890	12435	10808	8915					3/4	500	0.90	15.3					
		15896	14558	14146	12908	11731					1	551	1.21	17.7					
	15867	14525	14113	12873	11682					1	550	1.21	17.6						
	18204	17113	16759	15680	14959	12176				1½	631	1.81	22						
	19993	18999	18744	17762	17106	15154				2	693	2.41	27						
	19709	18646	18404	17438	16759	14576				2	716	2.41	22						
	22544	21590	21378	20658	20081	18511	16505			3	819	3.60	28						
	42	1L	13701	10026								1/3	294	0.40			11.1	3 Days	—
			15612	12415	11671							1/2	335	0.60			13.0		
			17942	15273	14451	11298						3/4	385	0.92			15.8		
19759			17478	16705	14777						1	424	1.21	18.8					
19759		17478	16705	14777						1	424	1.21	18.8						
22555		20599	20064	18117	17086					1½	484	1.80	23						
24792		23046	22560	20881	17957	16579				2	532	2.40	27						
28474		26984	26586	25316	24279	21952	18527			3	611	3.65	31						
33693		32435	32120	31102	30386	28275	26322	24165		5	723	6.00	39						
27349		25968	25623	24537	23737	21321	17720			3	640	3.61	26						
32563		31403	31113	30243	29634	27942	25934	23434		5	762	6.01	33						
48		1L	18171	14077	11902							1/2	282	0.60	10.5	3 Days	—		
	20877		17700	16601							3/4	324	0.91	13.0					
	22875		20096	19220	14778						1	355	1.20	15.4					
	22875		20096	19220	14778						1	355	1.20	15.4					
	26226	23841	23203	20720	17923					1½	407	1.80	18.9						
	28868	26733	26154	24229	22469					2	448	2.40	21						
	33056	31241	30735	29218	28043	23721				3	513	3.60	28						
	39177	37652	37271	36010	35157	32745	29209			5	608	5.99	36						
	33257	31277	30810	29181	27830	23228				3	506	3.61	25						
	39435	37765	37347	36157	35241	32427	28734			5	600	6.02	33						
	45088	43627	43262	42175	41495	39429	36866	33882		7½	686	9.00	44						
	54	1L	23892	19346	17418							3/4	272	0.92	12.7			5 Days	—
26352			22515	21155							1	300	1.21	14.1					
30129			26851	26014	21850	16537					1½	343	1.83	17.3					
30129			26851	26014	21850						1½	343	1.81	17.3					
33379		30420	29680	26821	23826					2	380	2.46	19.6						
38035		35439	34789	32810	30926					3	433	3.61	26						
44623		42410	41857	40196	39088	35194	28363			5	508	5.97	44						
36557		33708	32974	30005	27535					3	415	3.61	27						
43339		40968	40348	38489	36778	31783	26116			5	492	6.02	44						
49594		47550	47008	45384	44301	40440	36084	30683		7½	563	9.03	49						
54526		52685	52198	50721	49736	46840	42826	39077		10	619	12.0	56						
60		2L	35628	28888	26731							1½	267	1.80	16.7	5 Days	—		
	39231		33280	31524							2	294	2.41	20					
	44969		39902	38533	33664						3	337	3.63	25					
	53242	49009	47929	44361	41676					5	399	6.02	31						
	53242	49009	47929	44361	41676					5	399	6.02	31						
	60982	57286	56362	53476	51359	45184				7½	457	9.05	56						
72	3L	67120	63762	62923	60374	58582	53530				10	503	12.1	72	5 Days	—			
		50841	46713	45654	40999						3	288	3.61	22					
		60197	56743	55852	53170	50373					5	341	6.01	29					
		69024	66011	65258	62930	61371	55346				7½	391	9.03	38					
		75909	73169	72484	70395	68977	64603	58769			10	430	12.1	45					
		86854	84459	83861	82065	80838	77740	73537	68410		15	492	18.0	57					

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). \*Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.

## Performance for SBE, SBS • Levels 1H, 2H, 3H Exhaust and Supply

Model Size	Level	CFM / Static Pressure in inches wg										Motor HP	Fan RPM	Max BHP	Sones @ FA	Quick Build Best Available		
		0	.1	.125	.2	.25	.375	.5	.625	.75	1							
20	1H	3581	3247	3148	2769	2469	1160	657					1/4	953	0.30	16.2	3 Days	
		3904	3608	3517	3212	2954	2037	1064	603				1/3	1039	0.40	17.2		
		4587	4339	4277	4049	3873	3333	2514	1456	1064			1/2	1221	0.60	20		
	5226	5008	4954	4774	4639	4244	3741	3005	1886	1138		3/4	1391	0.90	25			
24	1H	4105	3618	3445	2848	2105	1133	444					1/4	785	0.30	13.3	3 Days	
		4586	4157	4041	3564	3179	1845	1108	491				1/3	877	0.36	16.1		
		5281	4920	4819	4471	4193	3093	2108	1439	904			1/2	1010	0.60	19.9		
	5281	4920	4819	4471	4193	3093	2108	1439	904			1/2	1010	0.60	19.9			
2H	6003	5685	5606	5340	5122	4502	3343	2510	1853	910		3/4	1148	0.90	25			
	6937	6650	6576	6337	6174	5721	5195	4494	3495			3/4	1330	0.90	24			
	7746	7489	7425	7216	7073	6704	6271	5793	5208	3470		1	1485	1.28	28			
30	1H	6970	6129	5860	4743								1/4	610	0.30	12.6	3 Days	
		7713	6950	6763	5939	5160							1/3	675	0.41	14.1		
		8787	8112	7949	7376	6876							1/2	769	0.60	16.9		
		10078	9484	9342	8914	8560	7424						3/4	882	0.90	22		
	10078	9484	9342	8914	8560	7424						3/4	882	0.90	22			
	11061	10519	10385	9996	9736	8847	7570					1	968	1.20	26			
	12683	12211	12092	11747	11521	10901	10090	9019				1 1/2	1110	1.80	31			
	13951	13522	13414	13095	12889	12374	11734	10955	9980			2	1221	2.40	36			
	13351	13030	12950	12708	12510	12015	11376	10705	9980	8065		2	1260	2.46	38			
	15173	14891	14820	14609	14468	14036	13586	13022	12446	11176		3	1432	3.53	49			
36	1H	10572	8812	8290									1/3	481	0.41	12.1	3 Days	
		12220	10729	10328	8958								1/2	556	0.63	14.9		
		13802	12520	12156	11035	10205							3/4	628	0.90	18.2		
		15253	14135	13798	12824	12111	9875						1	694	1.23	20		
	15253	14135	13798	12824	12111	9875						1	694	1.23	20			
	17407	16519	16198	15316	14753	13170						1 1/2	792	1.80	27			
	19121	18388	18096	17259	16736	15389	13871					2	870	2.40	34			
	17429	16877	16739	16313	16003	15059	13876	12427	10502			2	967	2.40	33			
42	1H	19935	19452	19331	18968	18721	18044	17147	16121	15045	11743		3	1106	3.60	40	3 Days	
		23810	23405	23304	23001	22799	22277	21711	21007	20233	18473		5	1321	6.00	59		
		12744	10191	9283										1/3	369	0.40		12.6
		14712	12605	11980										1/2	426	0.61		16.3
	16646	14868	14327	12592	10507								3/4	482	0.90	20		
	18408	16849	16388	14900	13752								1	533	1.22	21		
	18408	16849	16388	14900	13752								1	533	1.22	22		
	20998	19701	19302	18053	17182	14193							1 1/2	608	1.81	26		
	23243	22131	21771	20682	19906	17893							2	673	2.41	31		
	26455	25479	25235	24298	23664	21961	20125	16908					3	766	3.61	40		
48	1H	31324	30500	30294	29630	29095	27738	26299	24797	22915			5	907	5.95	56	3 Days	
		24197	23301	23090	22471	22059	20878	19377	17765	15725			3	800	3.60	31		
		28764	28010	27822	27286	26939	26072	25063	23863	22589	19606		5	951	6.00	43		
		17349	14214	13047										1/2	341	0.61		12.3
	19995	17450	16655	13052									3/4	393	0.93	15.5		
	21827	19513	18907	16322	13506								1	429	1.21	19.3		
	21827	19513	18907	16322	13506								1	429	1.21	19.3		
	24981	22990	22460	20671	19129								1 1/2	491	1.81	22		
	27474	25681	25206	23761	22529	18065							2	540	2.41	24		
	31442	29875	29484	28236	27395	24703	20285						3	618	3.61	29		
54	1H	37344	36025	35695	34700	33991	32220	29911	26937	22215			5	734	6.05	39	5 Days	
		28700	27492	27190	26184	25479	23333	20969	17480				3	634	3.62	33		
		34132	33116	32862	32100	31530	30047	28205	26350	24136			5	754	6.01	44		
		39021	38132	37910	37244	36800	35546	34248	32623	30989	27200		7 1/2	862	9.01	54		
	22867	19233	18136										3/4	299	0.91	13.4		
	25161	21986	21010										1	329	1.21	15.6		
	28832	26243	25408	22802	19924								1 1/2	377	1.82	19.0		
	28832	26243	25408	22802	19924								1 1/2	377	1.82	19.0		
	31662	29444	28684	26374	24628								2	414	2.41	22		
	36250	34402	33873	31882	30526	26145							3	474	3.61	30		
60	2H	42980	41422	41032	39618	38498	35655	32079					5	562	6.03	40	5 Days	
		33776	31946	31609	30565	29698	26933						3	526	3.62	38		
		39684	38044	37683	36823	36250	34451	32025	28547				5	618	6.02	52		
	45591	44164	43807	42943	42444	41121	39515	37449	34796			7 1/2	710	9.02	63			
	50022	48721	48396	47487	47032	45895	44548	43085	41129	35732		10	779	12.0	75			
	30561	27858	27152	24458	21479								1 1/2	348	1.81	25		
33635	31095	30577	28558	26588								2	383	2.41	28			
38465	36115	35664	34128	32978	28368							3	438	3.60	34			
45754	43590	43208	42072	41233	38708	34835						5	521	6.01	47			
72	3H	45754	43590	43208	42072	41233	38708	34835					5	521	6.01	47	5 Days	
		52253	50358	49884	48855	48192	46261	43933	40629	35715			7 1/2	595	9.00	56		
		57873	56163	55735	54653	54054	52537	50625	48395	45470			10	659	12.0	70		
		48947	45342	44616	41829	39112								3	324	3.61		30
58465	55195	54588	52646	51074	45737							5	387	6.03	39			
66773	63726	63155	61559	60428	56986	51688						7 1/2	442	9.01	50			
73421	70649	69945	68496	67529	64622	60962	55889					10	486	12.0	57			
84449	82039	81436	79872	79030	76927	74244	71276	67313				15	559	18.1	75			

Performance certified is for installation type A: Free inlet, Free outlet. Power rating (Bhp) does not include transmission losses. Performance ratings do not include the effects of appurtenances (accessories). \*Speed (RPM) shown is nominal. Performance is based on actual speed of test. The sound ratings shown are loudness values in fan sones at 5 ft. (1.5 m) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type A: free inlet hemispherical sone levels.

### Performance for SBCE, SBCE • Level 3L Exhaust and Supply

Model Size	Level	CFM / Static Pressure in inches wg								Motor HP	Fan RPM	Max BHP	Sones @ FA	Quick Build Best Available	
		0	.1	.2	.25	.375	.5	.625	.75						1
24	3L	5704	5156	4346	3836						1/3	828	0.40	14.6	3 Days
		6531	6070	5474	5073	3825					1/2	948	0.60	18.0	
		7475	7092	6622	6349	5463					3/4	1085	0.90	21	
		8225	7892	7469	7253	6527	5677				1	1194	1.20	24	
30	3L	9585	8388	6798	7988						1/2	695	0.60	16.6	3 Days
		10964	9966	8700	7988						3/4	795	0.90	20	
		12067	11169	10081	9486	7440					1	875	1.20	23	
		13818	13038	12168	11672	10388					1 1/2	1002	1.80	28	
		15211	14504	13762	13329	12162	10837				2	1103	2.40	32	
17404	16786	16159	15835	14881	13842	12738	11164		3	1262	3.60	40			
36	3L	14577	12834	10267							3/4	630	0.90	21	3 Days
		16034	14528	12409							1	693	1.20	24	
		18348	17064	15395	14424						1 1/2	793	1.80	28	
		20199	19058	17658	16812	14506					2	873	2.41	32	
		23092	22127	21006	20343	18470	16315				3	998	3.61	39	
27372	26559	25670	25194	23837	22246	20647			5	1183	6.01	51			
42	3L	18297	15764								1	536	1.20	18.1	3 Days
		20925	18692	16364	14566						1 1/2	613	1.80	21	
		23042	21097	19068	17750						2	675	2.40	25	
		26387	24729	22864	22051	18935					3	773	3.61	31	
31269	29920	28347	27517	25762	23038				5	916	6.01	42			
48	3L	26730	23117								1 1/2	531	1.80	24	3 Days
		29448	26249	22640							2	585	2.41	27	
		33676	30972	27904	26301						3	669	3.61	32	
		39918	37729	35144	33810	30464					5	793	6.01	41	
45707	43860	41690	40528	37736	34664				7 1/2	908	9.02	50			
54	3L	29752	26685	22822							2	425	2.41	22	5 Days
		34092	31897	28420	26637						3	487	3.62	28	
		40393	38690	35716	34451	30778					5	577	6.02	38	
		46203	44715	42720	41165	38347	34940				7 1/2	660	9.01	49	
50894	49542	48191	46850	43846	41235	37872			10	727	12.0	61			
60	3L	36192	31785	23150							2	363	2.42	22	5 Days
		41377	37510	32117	27497						3	415	3.62	28	
		49054	45784	42555	40364	30638					5	492	6.02	36	
		56133	53276	50438	49031	43088	34085				7 1/2	563	9.03	46	
61816	59221	56632	55354	52119	44587				10	620	12.1	56			
72	3L	50891	41519	26696							3	338	3.60	27	5 Days
		60376	53221	42331	35746						5	401	6.01	37	
		69109	63324	55204	49816	35555					7 1/2	459	9.02	45	
		76035	70697	63628	60117	47224					10	505	12.01	54	
87026	82239	77299	73547	64621	53266	42050			15	578	18.00	72			

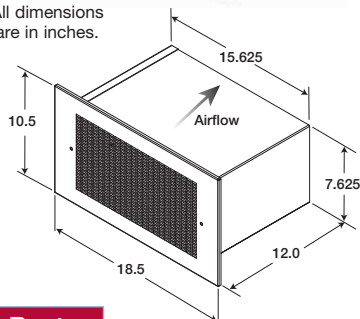
### Performance SBCE, SBCE • Level 3H Exhaust and Supply

Model Size	Level	CFM / Static Pressure in inches wg								Motor HP	Fan RPM	Max BHP	Sones @ FA	Quick Build Best Available	
		0	.1	.2	.25	.375	.5	.625	.75						1
24	3H	5518	5046	4531	4251	3338	1239				1/3	968	0.40	16.7	3 Days
		6317	5917	5466	5244	4621	3734	1589	878		1/2	1108	0.60	20	
		7229	6881	6498	6301	5800	5243	4536	2159	917	3/4	1268	0.90	23	
		7958	7643	7306	7126	6684	6208	5685	5051	1966	1	1396	1.20	26	
30	3H	8610	7863	7098	6696	5288					1/2	890	0.60	19.1	3 Days
		9848	9190	8544	8201	7277	5927				3/4	1018	0.90	23	
		10845	10242	9665	9362	8572	7667	6305			1	1121	1.20	26	
		12412	11886	11375	11122	10458	9762	8982	7921		1 1/2	1283	1.80	34	
		13660	13182	12712	12483	11898	11279	10645	9926	7863	2	1412	2.40	39	
15634	15216	14798	14596	14096	13579	13041	12487	11270	3	1616	3.60	47			
36	3H	13442	12239	10951	10296	7708					3/4	786	0.90	21	3 Days
		14793	13713	12595	11952	10148	6816				1	865	1.20	24	
		16948	16024	15038	14565	13209	11486	8916			1 1/2	991	1.81	29	
		18641	17801	16902	16471	15285	14101	12341	9976		2	1090	2.41	35	
		21343	20609	19850	19449	18503	17426	16390	15077	10981	3	1248	3.60	43	
25311	24692	24073	23751	22909	22117	21253	20313	18538	5	1480	6.01	58			
42	3H	17185	15919	14411	13492	10692					1	736	1.20	27	3 Days
		19660	18600	17329	16671	14556	11992				1 1/2	842	1.80	31	
		21645	20721	19576	18987	17308	15214	12754			2	927	2.40	36	
		24774	23980	23026	22526	21236	19699	17881	15890		3	1061	3.61	44	
29397	28728	28011	27590	26536	25446	24224	22881	19615	5	1259	6.01	57			
48	3H	25650	23608	21313	20083	15959					1 1/2	691	1.80	31	3 Days
		28249	26368	24434	23316	20084	15370				2	761	2.41	35	
		32332	30648	29133	28230	25779	22761	19268			3	871	3.61	43	
		38308	36841	35553	34913	33002	30995	28669	25923	16703	5	1032	6.00	59	
43876	42596	41415	40859	39461	37668	35918	34068	29382	7 1/2	1182	9.01	75			
54	3H	29370	27282	24696	23254	18049					2	501	2.41	26	5 Days
		33591	31765	29731	28536	25299	20153				3	573	3.61	31	
		39864	38325	36748	35851	33382	30664	27125	21725		5	680	6.02	41	
		45609	44264	42919	42229	40269	38025	35671	33163	23604	7 1/2	778	9.03	53	
50182	48959	47737	47126	45432	43599	41507	39367	33873	10	856	12.03	61			
60	3H	34870	31476	27574	25189						2	453	2.40	27	5 Days
		39950	36909	33845	32059	26478					3	519	3.61	32	
		47340	44661	42374	40977	37234	32691	25081			5	615	6.01	42	
		54190	51775	49746	48747	45736	42385	38434	33206		7 1/2	704	9.01	54	
59656	57462	55532	54624	52131	49309	46183	42537	31181	10	775	12.02	63			
72	3H	49824	45755	41527	39012	29847					3	465	3.61	37	5 Days
		59039	55683	52112	50384	44927	37456				5	551	6.00	52	
		67611	64754	61587	60049	56106	51062	44626	36346		7 1/2	631	9.01	65	
		74361	71806	68944	67504	64053	60168	55291	49391		10	694	12.00	77	
		85183	82953	80547	79290	76179	73186	69826	65974	55871	15	795	18.04	104	

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All dimensions are in inches.



**Best Available Program**  
In Stock

## Model CBF Direct Drive

Cement block fans are designed for economy and reliability in small size, high volume applications. Efficient propeller, venturi, and motor design results in low sound levels with minimal restriction to airflow. Works great for ventilating equipment rooms, plumbing and electrical chases.

### Standard Construction

- Housing - galvanized steel
- Fits in place of a standard 16 by 8 inch concrete block
- Mountable in any wall construction
- Mounting flanges for easy installation
- Grille - galvanized steel
- UL/cUL Recognized motor

### Performance for CBF

Model	Amps	CFM / Static Pressure in inches wg						
		0	.1	.125	.25	.375	.4	
CBF-205-QD	1.0	CFM	500	465	453	390	320	300
		Sones	8.3	8.3	8.1	7.8	7.5	9.4

