

Bulletin SC-1000



# SC VOLUME BLOWERS



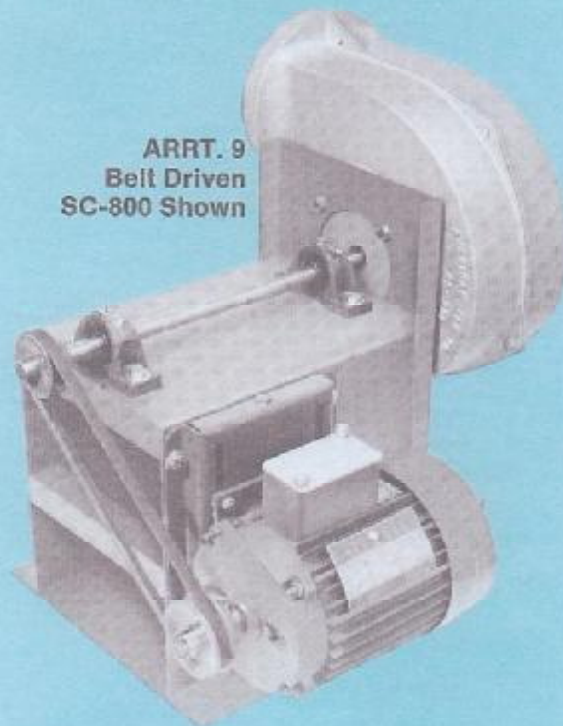
**ARRT. 4**  
Base Mounted  
SC-800 Shown



**ARRT. 4**  
Flange Mounted  
SC-600 Shown



**ARRT. 1**  
Belt Driven  
SC-800 Shown



**ARRT. 9**  
Belt Driven  
SC-800 Shown

Model SC features a steel multivane forward curve wheel with a high volume, low noise level characteristic. Model SC is ideal for O.E.M. applications where a quiet, reliable, compact blower is required. Large motor cooling, laundry machinery purging, electronic equipment cooling, and lab hood fume exhausting are just a few of the current applications.

Pressure selections are available up to 4" S.P. w.g. and capacity selections up to 1400 CFM.

Model SC can be mounted and supported by an integrally cast outlet flange or mounted on a base, depending on the application. Special configurations are also available.

#### Features

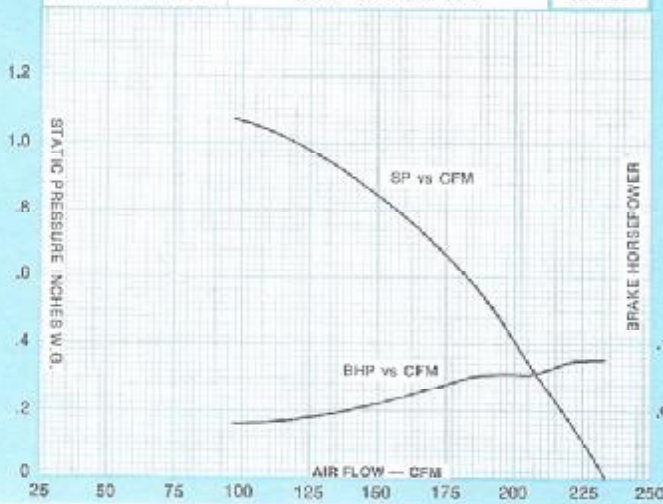
- Rugged cast aluminum housing
- AMCA Type "C" Sparkproof construction
- Round Slip Fit Inlet Standard — Available with flanged inlet
- Low Cost and Low Maintenance
- Steel forward curve wheel
- Light weight, compact design — necessary for many O.E.M. applications
- Integrally cast outlet flange — (Standard on 381, Optional on 475, 600 and 800)

#### Accessories

- Inlet flange
- Outlet flange
- Housing drain with plug
- Inlet filter
- Shaft seal
- Inlet guard
- Outlet guard
- Cast iron housing

# PERFORMANCE DATA

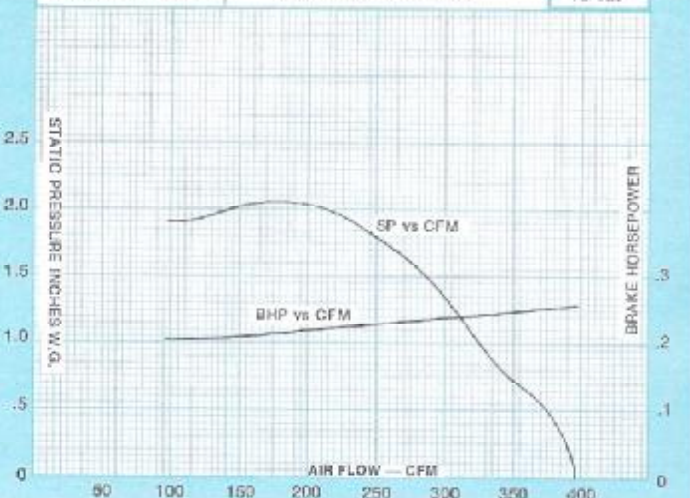
AMERICAN FAN CO. SC-381 3450 RPM 70°F TD-1425



CFM	0.25 SP	0.50 SP	0.75 SP	1.00 SP	1.25 SP	1.50 SP	1.75 SP	2.00 SP	2.25 SP		
OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
157	3890	2822	0.05	3936	0.04	3956	0.05	3922	0.06	3941	0.07
165	3400	2821	0.04	3147	0.06	3447	0.05	3773	0.07	4071	0.06
168	3680	3080	0.06	3274	0.07	3667	0.08	3942	0.09	4225	0.10
206	4200	3345	0.07	3673	0.08	3673	0.11	4129	0.12	4391	0.13
225	4800	3850	0.10	3856	0.11	4157	0.13	4542	0.15	4616	0.16
245	5800	3880	0.12	4113	0.13	4330	0.16				
265	5400	4148	0.15	4372	0.16						

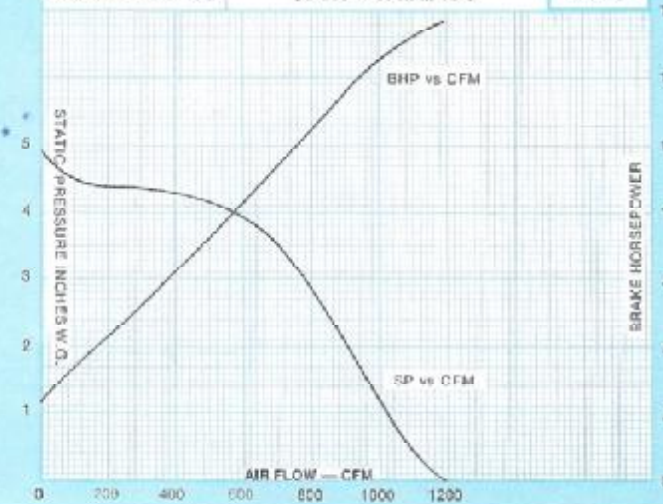
NOTE: MODEL SC-381 NOT AVAILABLE IN BELT DRIVE. TABLE TO BE USED ON DIRECT DRIVE APPLICATIONS UTILIZING AN ELECTRONIC SPEED CONTROLLER ONLY.

AMERICAN FAN CO. SC-475 3450 RPM 70°F TD-728



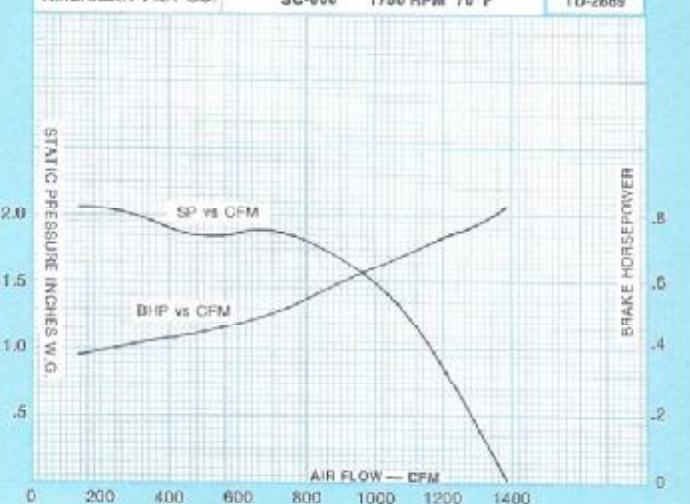
CFM	0.25 SP	0.50 SP	0.75 SP	1.00 SP	1.25 SP	1.50 SP	1.75 SP	2.00 SP	2.25 SP		
OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
162	2320	1777	0.20	1975	0.24	2241	0.30	2519	0.36	2859	0.44
180	2620	1936	0.24	2171	0.28	2384	0.35	2637	0.40	2916	0.47
222	3200	2137	0.28	2383	0.35	2642	0.40	2920	0.47	3173	0.55
250	3400	2340	0.30	2589	0.38	2772	0.43	3030	0.50	3285	0.59
281	3800	2510	0.31	2801	0.40	2982	0.46	3235	0.53	3471	0.62
311	4200	2818	0.44	3001	0.47	3245	0.55	3479	0.63	3688	0.72
341	4800	3082	0.58	3202	0.50	3403	0.58	3584	0.67	3801	0.77
370	5200	3285	0.63	3409	0.65	3603	0.69	3771	0.72	3958	0.80
400	5800	3550	0.78	3653	0.81	3805	0.84	3974	0.86		
420	5800	3664	0.85	3801	0.87						

AMERICAN FAN CO. SC-800 3450 RPM 70°F TD-1424



CFM	0.50 SP	1.00 SP	1.50 SP	2.00 SP	2.50 SP	3.00 SP	3.50 SP	4.00 SP	
OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	
274	1400	1216	0.07	1715	0.12	2089	0.18	2500	0.26
323	1600	1470	0.10	1894	0.16	2114	0.22	2599	0.31
411	2000	1667	0.16	2045	0.23	2399	0.30	2709	0.47
510	2600	1892	0.24	2115	0.31	2346	0.38	2586	0.48
580	3000	2068	0.33	2303	0.42	2580	0.51	2798	0.59
667	3400	2270	0.45	2480	0.56	2680	0.66	2847	0.75
748	3800	2492	0.60	2623	0.73	2842	0.84	3007	0.95
824	4200	2704	0.79	2823	0.92	3019	1.05	3207	1.17
895	4800	2968	0.99	3013	1.15	3218	1.30	3433	1.44
961	5600	3151	1.23	3225	1.42				

AMERICAN FAN CO. SC-600 1750 RPM 70°F TD-2689

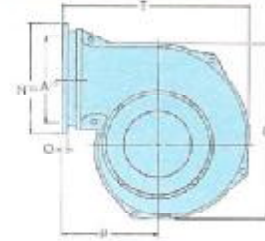
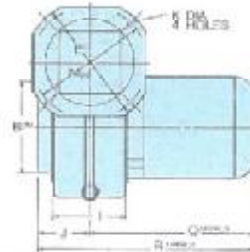
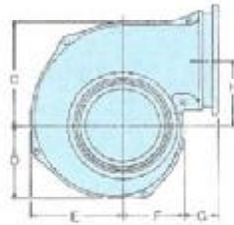


CFM	0.25 SP	0.50 SP	0.75 SP	1.00 SP	1.25 SP	1.50 SP	1.75 SP	2.00 SP	2.25 SP	
OV	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
188	1400	781	0.05	952	0.10	1115	0.14	1273	0.19	
223	1600	922	0.11	1085	0.14	1262	0.19	1416	0.24	
267	2000	1079	0.19	1179	0.21	1384	0.28	1528	0.35	
307	2600	1236	0.27	1325	0.32	1480	0.36	1560	0.42	
342	3000	1402	0.40	1480	0.45	1592	0.50	1627	0.54	
378	3400	1569	0.57	1620	0.62	1726	0.68	1768	0.74	
415	3800	1736	0.75	1661	0.68	1822	0.74	1873	0.80	
452	4200	1903	1.03	1685	0.76	1922	0.82	1973	0.87	
489	4800	2070	1.35	1732	0.81	1984	0.89	2035	0.94	
526	5600	2248	1.71	1788	0.87	2047	0.97	2100	1.02	

# DIMENSIONAL DATA

## Arrangement 4 Flange Mount

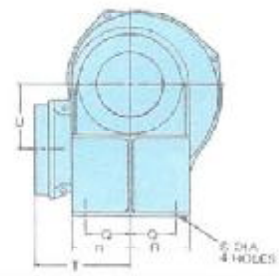
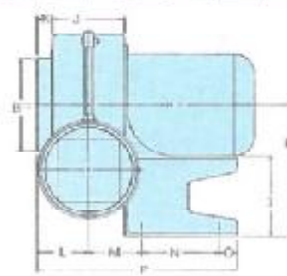
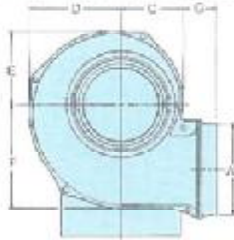
Fan Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
381	2½	4	3¾	2¾	3¾	2½	1½	2½	3¾	2¾	¾	4¾	4¾	—	¾	4	8½	10¾	6¾	7¾
475	3¾	5	4¾	4	4¾	3¾	1½	2¾	3¾	3	¾	6¾	5¾	6	¾	4¾	10¾	13¾	8¾	9¾
600	5¾	6	6¾	4¾	5¾	3¾	2¾	4¾	4¾	3¾	¾	8	7¾	7	¾	6	11¾	14¾	11¾	11¾
800	7¾	8	8¾	6¾	7¾	5¾	1¾	5¾	5¾	4	¾	10	9¾	9	¾	7	11¾	15¾	14¾	14¾



## Arrangement 4 Base Mount

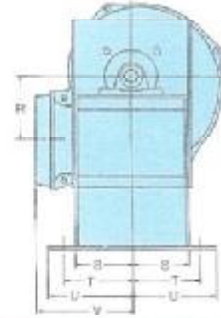
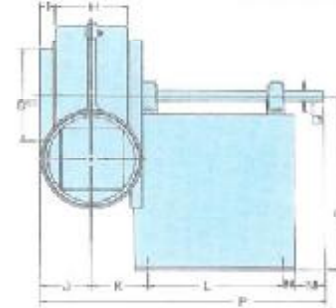
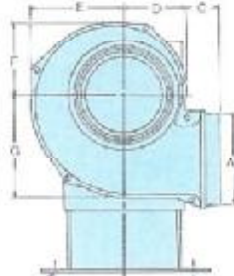
\*MODEL SC-381 IS FURNISHED WITH INTEGRALLY CAST OUTLET FLANGE. SEE ARR. 4 FLANGE MOUNT DRAWING FOR DISCHARGE DIMENSIONS.

Fan Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
381	4	4	2½	3¾	2¾	3¾	1½	8¾	5	3¾	¾	2¾	2¾	5	1	11¾	2¾	3¾	¾	4	2¾
475	4	5	3¾	4¾	4	4¾	1½	8¾	5	3¾	1¾	3	3¾	5	1	12¾	2¾	3¾	¾	4¾	2¾
600	6	6	3¾	5¾	4¾	6¾	2¾	8¾	5	4¾	1¾	3¾	3¾	5	1	12¾	2¾	3¾	¾	6	4¾
800	8	8	5¾	7¾	6¾	8¾	1¾	10¾	7	5¾	1¾	4	4	6	1	15	2¾	3¾	¾	7	6¾



## Arrangement 1

Fan Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
475	4	5	1½	3¾	4¾	4	4¾	3¾	1¾	3	3¾	12	3	1	15	22¾	¾	2¾	4	5	6	4¾
600	6	6	2¾	3¾	5¾	4¾	6¾	4¾	1¾	3¾	3¾	12	3	1	15	22¾	¾	4¾	4	5	6	6
800	8	8	1¾	6¾	7¾	6¾	8¾	5¾	1¾	4	4¾	12	3	1	15	24¾	1	5¾	5	6	7	7



### NOTES

SC-381 available in CW rotation only as viewed from drive side.

SC-381 is only available with integrally cast outlet flange.

SC-381 not available in Arrangement 1 or 9.

Distributed by:



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