



# Centrifugal Filtered Supply



CSF

Belt Drive Centrifugal Filtered Supply Fans

*Advancing Ventilation*

# MODELS CSF

## BELT DRIVE CENTRIFUGAL FILTERED SUPPLY FANS

### MODEL FEATURES

- Supply air to over 13,000 CFM in static pressure capabilities to 2" w.g.
- Heavy-galvanized construction
- Belt drives permit easy performance adjustments when needed
- Forward curved centrifugal blower for efficient air flow at low sound levels
- Filters are washable and reusable
- AMCA Air and Sound Licensed
- cULus 705 Listed



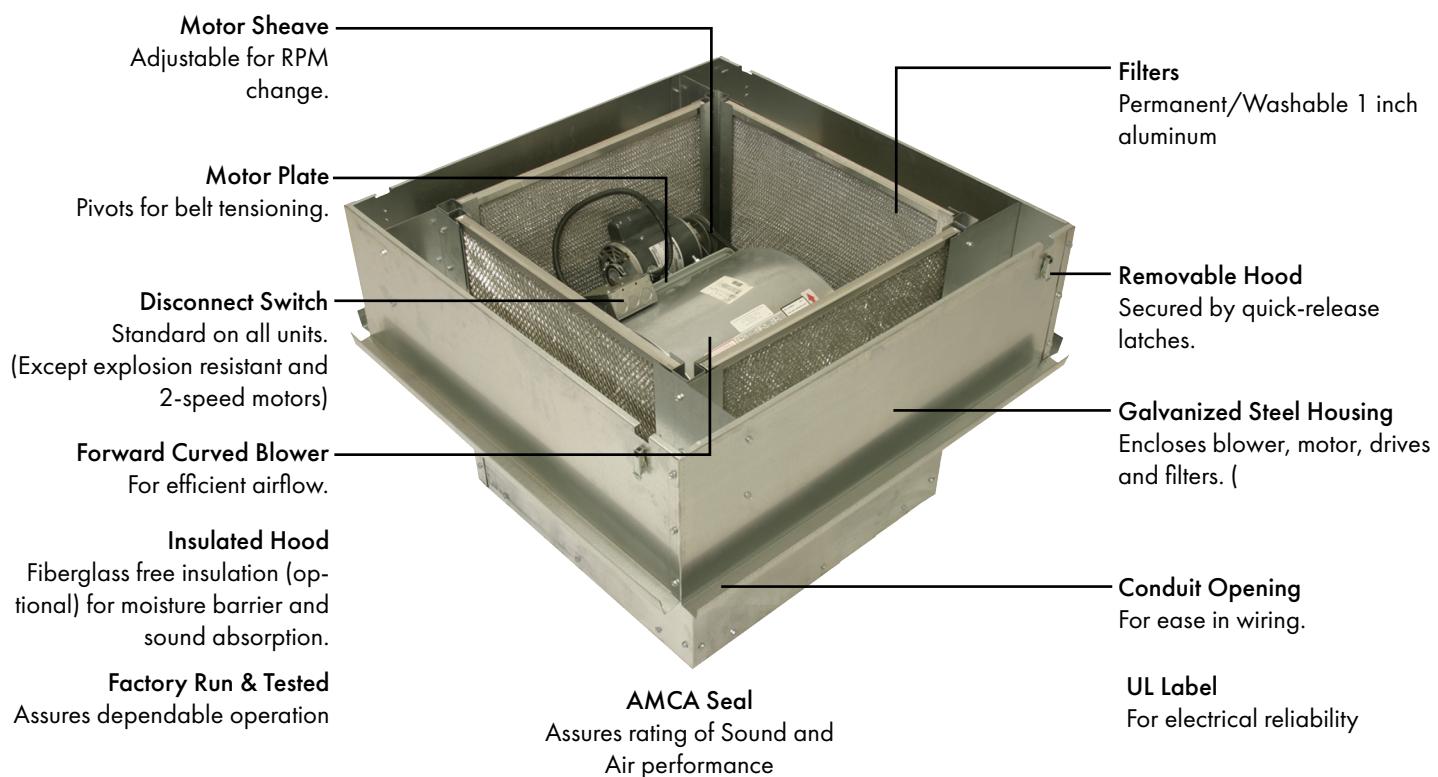
Model CSF  
Hooded Design

### MODEL OVERVIEW

Models CSF are roof mounted, filtered supply fans rated from 375 to over 13,000 CFM, with static pressure capabilities to 2". Model CSF's rugged, heavy-gauge galvanized hood and stack provide maximum weather protection and long life. All models are belt driven for easier performance adjustment and quieter operation. Adjustable motor pulleys further simplify fan speed changes.

S&P's Centrifugal Filtered Supply Fans are used to replace exhausted fumes, vapors and gases with fresh, filtered make-up air in commercial and industrial applications such as manufacturing and assembly areas, kitchens, athletic clubs and many others.

### CONSTRUCTION FEATURES AND OPTIONS



Industry best 5 year fan housing warranty, 1 year motor warranty

### **Blower/Housing**

- Statically and dynamically balanced forward curved wheel.
- 12-gauge galvanized steel blower plate/discharge opening.
- Heavy-gauge galvanized steel housing.
- Pre-punched mounting holes.
- Conduit opening for wiring from below unit.

### **Hooded/Louvered Top**

- Heavy-gauge galvanized steel hood. (CSF)
- Quick-release latches for removal from housing.
- Insulated for sound absorption and moisture barrier.
- Oversized for weather protection.
- 1" washable aluminum mesh filters.

### **Drives**

- Adjustable motor pulleys are standard.
- Sized for minimum 150% of drive horsepower.
- Pivoting motor plate for belt tensioning.
- Non-static oil resistant V-belts.

### **Bearings**

- Heavy-duty ball bearing type.
- Prelubricated and permanently sealed.

### **Motors**

- Open drip-proof construction is standard.
- Disconnect switch standard with single speed drip-proof and totally enclosed motors.
- Optional motor enclosures and types can be specified.

### **Certifications**

- AMCA Air and Sound Licensed.
- cULus Standard 705 Listed Power Roof Ventilator label assures electrical reliability.
- cULus label must be specified when needed.

## **OPTIONS/ACCESSORIES**

**Roof Curb:** Prefabricated heavy-gauge galvanized steel, welded construction, 12" high with 1-1/2" wood nailing. Options include burglar bars, single and double pitch construction, and additional curb heights.



**Motor Operated Damper:** Motor operated aluminum damper for positive closure against backdraft (counter balanced).



**Automatic Damper:** Automatic aluminum damper for ease in installation and effective backdraft protection (counter balanced).

**Duct Adaptor:** For ease in connecting discharge duct to fan outlet.

**Side Discharge:** For convenient connection to a supply duct when mounted on roof where the inside ceiling height is limited (CSF). Not available on CSF9.

**Special Coatings:** For protective and decorative purposes. Available coatings include: Epoxy, Synthetic Resin, and Heresite (air-dried phenolic). Contact your S&P representative or the factory for more information on available coatings and colors.

# CSF PERFORMANCE

## CSF 9

MODEL CSF	CFM	OV	Static Pressure in Inches w.g.							
			1/8	1/4	3/8	1/2	5/8	3/4	1	
9	475	540	RPM	438	-	-	-	-	-	-
			BHP	0.03	-	-	-	-	-	-
			Sones	12.7	-	-	-	-	-	-
	575	653	RPM	458	607	-	-	-	-	-
			BHP	0.04	0.07	-	-	-	-	-
			Sones	12.9	15.2	-	-	-	-	-
	675	767	RPM	485	619	743	-	-	-	-
			BHP	0.05	0.08	0.12	-	-	-	-
			Sones	13.4	15.5	17.5	-	-	-	-
	775	881	RPM	514	639	751	858	-	-	-
			BHP	0.07	0.10	0.13	0.18	-	-	-
			Sones	13.7	15.9	17.7	19.7	-	-	-
	875	994	RPM	546	663	767	865	959	-	-
			BHP	0.09	0.12	0.16	0.20	0.25	-	-
			Sones	13.9	16.5	18.1	19.9	22	-	-
	975	1108	RPM	581	691	788	879	966	1051	-
			BHP	0.11	0.15	0.19	0.23	0.28	0.33	-
			Sones	14.4	17.2	18.8	20	22	24	-
	1075	1222	RPM	618	721	813	898	981	1059	1213
			BHP	0.14	0.18	0.22	0.27	0.32	0.37	0.49
			Sones	15.1	17.9	19.5	21	22	24	28
	1175	1335	RPM	657	752	841	922	999	1073	1216
			BHP	0.17	0.22	0.26	0.31	0.36	0.42	0.53
			Sones	15.9	18.5	20	22	23	24	28
	1275	1449	RPM	696	785	871	948	1021	1092	1228
			BHP	0.21	0.26	0.31	0.36	0.41	0.47	0.59
			Sones	17.1	19.4	21	23	24	25	29
	1375	1563	RPM	737	820	901	976	1047	1113	1243
			BHP	0.25	0.31	0.36	0.41	0.47	0.53	0.65
			Sones	18.3	20	22	24	25	26	29
	1475	1676	RPM	778	857	933	1005	1074	1138	1261
			BHP	0.30	0.36	0.42	0.48	0.54	0.60	0.73
			Sones	19.6	21	23	24	26	27	30
	1575	1790	RPM	820	895	966	1036	1103	1165	1283
			BHP	0.36	0.42	0.48	0.54	0.61	0.67	0.81
			Sones	21	23	24	25	27	28	31
	1675	1903	RPM	862	934	1001	1068	1132	1193	1307
			BHP	0.42	0.49	0.55	0.62	0.69	0.75	0.89
			Sones	22	24	25	27	28	29	33
	1775	2017	RPM	904	974	1038	1101	1163	1223	1332
			BHP	0.49	0.57	0.63	0.70	0.77	0.84	0.99
			Sones	24	25	27	28	29	30	34
	1875	2131	RPM	946	1014	1076	1135	1195	1253	1361
			BHP	0.57	0.65	0.72	0.80	0.87	0.94	1.09
			Sones	25	27	28	29	30	32	35
	1975	2244	RPM	989	1054	1114	1171	1228	1284	-
			BHP	0.66	0.74	0.82	0.90	0.97	1.05	-
			Sones	27	28	29	30	31	33	-
	2075	2358	RPM	1033	1096	1153	1208	1261	-	-
			BHP	0.76	0.85	0.93	1.01	1.09	-	-
			Sones	28	30	31	32	33	-	-
	2175	2472	RPM	1075	1137	1193	1246	-	-	-
			BHP	0.86	0.96	1.04	1.13	-	-	-
			Sones	30	31	32	33	-	-	-
	2275	2585	RPM	1119	1178	-	-	-	-	-
			BHP	0.98	1.08	-	-	-	-	-
			Sones	32	33	-	-	-	-	-
	2375	2699	RPM	1163	-	-	-	-	-	-
			BHP	1.10	-	-	-	-	-	-
			Sones	33	-	-	-	-	-	-



S&P USA Ventilation Systems, LLC, Div. of Soler & Palau Ventilation Group, certifies that the Model CSF shown herein are licensed to bear the AMCA Seal. The ratings shown are based on test and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirement of the AMCA Certified Ratings Program.



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 a distance of 1.5 m (5 ft) in a hemispherical free field calculated per AMCA International Standard 301. Values shown are for installation type B: ducted outlet hemispherical sone levels. Ratings do not include the effect of duct end correction.









**CSF18 Cont.**

MODEL CSF	CFM	OV		Static Pressure in Inches w.g.									
				1/8	1/4	3/8	1/2	5/8	3/4	1		2	
18	8550	2908	RPM	647	673	697	721	744	767	812	856	900	987
			BHP	3.81	4.07	4.31	4.55	4.79	5.03	5.51	6.01	6.51	7.58
			Sones	36	35	30	28	27	27	27	27	28	29
	8900	3027	RPM	672	696	720	743	766	788	831	874	916	-
			BHP	4.28	4.54	4.8	5.05	5.3	5.55	6.05	6.56	7.08	-
			Sones	39	39	34	30	29	29	29	29	29	-
	9250	3146	RPM	696	720	743	765	787	808	851	892	933	-
			BHP	4.78	5.06	5.33	5.59	5.85	6.11	6.63	7.15	7.69	-
			Sones	41	42	37	33	31	31	31	31	31	-
	9600	3265	RPM	721	744	766	788	809	829	870	910	-	-
			BHP	5.32	5.61	5.89	6.16	6.43	6.7	7.24	7.78	-	-
			Sones	44	45	41	37	34	34	34	34	-	-
	9950	3384	RPM	745	768	789	810	831	851	-	-	-	-
			BHP	5.9	6.2	6.49	6.78	7.06	7.34	-	-	-	-
				48	49	45	41	37	36	-	-	-	-
	10300	3503	RPM	771	796	819	840	862	-	-	-	-	-
			BHP	6.5	6.9	7.2	7.5	7.8	-	-	-	-	-
			Sones	52	53	51	46	42	-	-	-	-	-
	10650	3622	RPM	796	820	842	-	-	-	-	-	-	-
			BHP	7.3	7.6	7.8	-	-	-	-	-	-	-
			Sones	56	57	56	-	-	-	-	-	-	-

