



Slantwall Exhaust Fan Specifications and Performance

www.schaeferventilation.com

Where noted, performance validated at BESS Labs: <http://bess.illinois.edu/>

Static Pressure (inches H₂O)

Fan Size	Fan Model	Rough-In DIM (W x H)	Material	HP	Phases	Speeds	Voltage	Nameplate Amps	Service Factor	RPM @0.05"	Drive	Wings	Static Pressure (inches H ₂ O)										BESS Labs Tested #
													0"		0.05"		0.1"		0.15"		0.2"		
													CFM	CFM/W	CFM	CFM/W	CFM	CFM/W	CFM	CFM/W	CFM	CFM/W	
Galvanized Models																							
24"	245SDD12	31" x 31 3/4"	Galvanized	1/2	1	1	115/230	7.0/3.5	1.0	800	Direct	5	7,100	18.1	6,600	16.2	6,000	13.9	5,400	12.2	4,200	10.9	SCHAEFER
	245S12	31" x 31 3/4"	Galvanized	1/2	1	1	115/230	4.6/2.3	1.0	750	Belt	5	6,600	15.2	6,100	13.1	5,600	11.3	5,000	10.1	3,900	8.2	SCHAEFER
30"	303SDD12	37" x 37 3/4"	Galvanized	1/2	1	1	115/230	7.0/3.5	1.0	741	Direct	3	7,700	18.1	7,200	16.1	6,600	14.2	5,900	12.1	4,700	10.9	SCHAEFER
	303S12	37" x 37 3/4"	Galvanized	1/2	1	1	115/230	4.6/2.3	1.0	695	Belt	3	7,300	15.2	6,720	13.7	6,200	12.2	5,500	10.6	4,400	8.1	09347
	305S12	37" x 37 3/4"	Galvanized	1/2	1	1	115/230	4.6/2.3	1.0	596	Belt	5	7,500	15.7	7,010	14.3	6,400	12.8	5,500	10.4	4,300	8.0	12159
	305S34-2-115V	37" x 37 3/4"	Galvanized	3/4	1	2	115	9.3/5.3	1.33	647	Belt	5	8,200	12.2	7,607	11.5	7,000	10.3	6,200	9.7	5,000	8.1	SCHAEFER
	305S34-2-230V	37" x 37 3/4"	Galvanized	3/4	1	2	230	4.4/2.8	1.33	647	Belt	5	8,201	12.2	7,607	11.5	7,001	10.3	6,201	9.7	5,001	8.1	SCHAEFER
36"	363SDD12	43" x 43 3/4"	Galvanized	1/2	1	1	115/230	7.0/3.5	1.0	573	Direct	3	10,500	24.7	9,600	22.4	8,600	20.1	7,400	17.6	4,600	15.2	SCHAEFER
	363S12	43" x 43 3/4"	Galvanized	1/2	1	1	115/230	4.6/2.3	1.0	557	Belt	3	10,200	21.8	9,340	19.1	8,400	16.6	7,200	13.8	4,300	7.9	09341
	365S12	43" x 43 3/4"	Galvanized	1/2	1	1	115/230	4.6/2.3	1.0	496	Belt	5	10,300	22.0	9,520	19.5	8,600	17.0	6,600	12.4	4,600	8.4	12158
	363S34	43" x 43 3/4"	Galvanized	3/4	1	1	115/230	7.8/3.9	1.25	557	Belt	3	11,700	18.4	10,700	16.6	9,600	14.1	8,300	12.3	4,900	8.5	SCHAEFER
	365S34	43" x 43 3/4"	Galvanized	3/4	1	1	115/230	7.8/3.9	1.25	499	Belt	5	11,700	18.5	10,800	16.7	9,600	14.5	8,300	12.3	4,600	8.8	SCHAEFER
	365S34-2-115V	43" x 43 3/4"	Galvanized	3/4	1	2	115	9.3/5.3	1.33	455	Belt	5	10,900	15.2	9,852	14.2	8,800	12.4	7,600	10.2	4,500	6.4	SCHAEFER
365S34-2-230V	43" x 43 3/4"	Galvanized	3/4	1	2	230	4.4/2.8	1.33	572	Belt	5	11,890	14.7	11,280	13.4	10,620	12.2	9,750	10.8	8,560	9.2	13536	
42"	425S1	55" x 55 3/4"	Galvanized	1	1	1	115/230	9.8/4.9	1.15	420	Belt	5	15,760	12.4	14,370	14.5	12,660	18.7	10,500	24.7	4,300	8	SCHAEFER
	425S1-2	55" x 55 3/4"	Galvanized	1	1	2	230	5.3/3.0	1	404	Belt	5	16,600	19.1	10,970	16.8	9,670	10	8,270	12.3	6,670	12.4	SCHAEFER
48"	483S1	55" x 55 3/4"	Galvanized	1	1	1	115/230	9.8/4.9	1.15	593	Belt	3	20,500	20.8	19,300	18.8	18,000	17.0	16,500	15.1	14,800	13.2	09334
	483S1-2	55" x 55 3/4"	Galvanized	1	1	2	230	5.3/3.0	1.0	571	Belt	3	19,700	19.6	18,600	17.2	17,300	14.6	15,900	12.4	14,300	10.3	SCHAEFER
	485S1	55" x 55 3/4"	Galvanized	1	1	1	115/230	8.4/4.2	1.15	420	Belt	5	20,000	22.8	18,600	20.7	16,900	18.5	14,800	16.0	9,100	9.8	12153
	485S1-2	55" x 55 3/4"	Galvanized	1	1	2	230	5.3/3.0	1.0	404	Belt	5	19,300	21.1	17,900	19.1	16,300	16.7	14,300	14.5	8,800	12.4	SCHAEFER
	485S1-3	55" x 55 3/4"	Galvanized	1	3	1	208-230/460	3.2/1.6	1.25	436	Belt	5	20,000	30.0	18,600	20.9	16,900	18.7	14,800	16.2	9,100	10.0	SCHAEFER
	483S112	55" x 55 3/4"	Galvanized	1 1/2	1	1	208-230	6.8-6.4	1.20	702	Belt	3	23,900	15.8	22,900	14.8	21,600	13.8	20,300	12.8	18,500	11.6	SCHAEFER
	485S112	55" x 55 3/4"	Galvanized	1 1/2	1	1	208-230	6.8-6.4	1.20	556	Belt	5	24,000	16.3	23,100	15.2	21,800	13.9	20,600	12.8	19,000	11.4	13544
485S112-3	55" x 55 3/4"	Galvanized	1 1/2	3	1	208-230/460	5.0/2.5	1.15	491	Belt	5	23,300	16.0	22,300	14.6	21,100	14.0	19,800	13.0	18,100	11.8	SCHAEFER	



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Static Pressure (inches H₂O)

Fan Size	Fan Model	Rough-In DIM (W x H)	Material	HP	Phases	Speeds	Voltage	Nameplate Amps	Service Factor	RPM @0.05*	Drive	Wings	Static Pressure (inches H ₂ O)										BESS Labs Tested #
													0"		0.05"		0.1"		0.15"		0.2"		
													CFM	CFM/W	CFM	CFM/W	CFM	CFM/W	CFM	CFM/W	CFM	CFM/W	
54"	543S112G	61" x 62"	Galvanized	1 1/2	1	1	208-230	6.8-6.4	1.20	608	Belt	3	27,000	18.0	25,300	16.4	23,800	15.0	22,000	13.5	20,000	12.0	13016
	543S112G-3	61" x 62"	Galvanized	1 1/2	3	1	208-230/460	5.0/2.5	1.15	613	Belt	3	26,800	17.3	25,400	16.0	23,900	14.6	22,200	13.2	20,000	11.7	13023
	545S112G	61" x 62"	Galvanized	1 1/2	1	1	208-230	6.8-6.4	1.20	457	Belt	5	27,100	18.6	25,700	17.2	24,200	15.8	22,300	14.2	20,100	12.6	13017
	545S112G-3	61" x 62"	Galvanized	1 1/2	3	1	208-230/460	5.0/2.5	1.15	486	Belt	5	28,700	18.1	27,400	16.8	25,900	15.4	24,300	14.2	22,400	12.8	13022
	543S2G	61" x 62"	Galvanized	2	1	1	230	9.5	1.0	653	Belt	3	28,700	15.5	27,400	14.4	26,000	13.3	24,500	12.2	22,900	11.2	13019
	543S2G-3	61" x 62"	Galvanized	2	3	1	208-230/460	6-5.8/2.9	1.25	687	Belt	3	30,200	16.0	28,900	14.8	27,600	13.9	26,100	12.8	24,700	11.9	13024
	545S2G	61" x 62"	Galvanized	2	1	1	230	9.5	1.0	495	Belt	5	29,300	15.8	27,900	14.7	26,400	13.6	24,900	12.6	23,100	11.5	13018
	545S2G-3	61" x 62"	Galvanized	2	3	1	208-230/460	6-5.8/2.9	1.25	521	Belt	5	30,800	16.6	29,400	15.5	28,000	14.4	26,600	13.3	25,000	12.3	13025
Aluminum Models																							
30"	305ASDD12	37" x 37 3/4"	Aluminum	1/2	1	1	115/230	7.0/3.5	1.0	852	Direct	5	7,270	14.1	6,910	13.0	6,530	11.9	6,120	10.9	5,640	9.8	13531
	305ASDD12-3	37" x 37 3/4"	Aluminum	1/2	3	1	230/460	2.3/1.2	1.0	812	Direct	5	6,900	14.5	6,520	13.3	6,110	12.0	5,620	10.8	5,060	9.4	13532
	303AS12	37" x 37 3/4"	Aluminum	1/2	1	1	115/230	4.6/2.3	1.0	695	Belt	3	7,300	15.2	6,720	13.7	6,200	12.2	5,500	10.6	4,400	8.1	09347
	305AS12	37" x 37 3/4"	Aluminum	1/2	1	1	115/230	4.6/2.3	1.0	596	Belt	5	7,500	15.7	7,010	14.3	6,400	12.8	5,500	10.4	4,300	8.0	12159
36"	365ASDD12	43" x 43 3/4"	Aluminum	1/2	1	1	115/230	7.0/3.5	1.0	573	Direct	3	10,500	24.7	9,600	22.4	8,600	20.1	7,400	17.6	4,600	15.2	SCHAEFER
	365AS12	43" x 43 3/4"	Aluminum	1/2	1	1	115/230	4.6/2.3	1.0	496	Belt	5	10,300	22.0	9,520	19.5	8,600	17.0	6,600	12.4	4,600	8.4	12158
	365AS34	43" x 43 3/4"	Aluminum	3/4	1	1	115/230	7.8/3.9	1.25	574	Belt	5	11,900	16.1	11,300	14.7	10,600	13.4	9,800	12.0	8,400	9.8	13535
	365AS34-2-115	43" x 43 3/4"	Aluminum	3/4	1	2	115	9.3/5.3	1.33	455	Belt	5	10,900	15.2	9,852	14.2	8,800	12.4	7,600	10.2	4,500	6.4	SCHAEFER
	365AS34-2-230	43" x 43 3/4"	Aluminum	3/4	1	2	230	4.4/2.8	1.33	572	Belt	5	11,890	14.7	11,280	13.4	10,620	12.2	9,750	10.8	8,560	9.2	13536
48"	485AS1	55" x 55 3/4"	Aluminum	1	1	1	115/230	8.4/4.2	1.15	420	Belt	5	20,000	22.8	18,600	20.7	16,900	18.5	14,800	16.0	9,100	9.8	12153
	485AS1-2	55" x 55 3/4"	Aluminum	1	1	2	230	5.3/3.0	1.0	404	Belt	5	19,300	21.1	17,900	19.1	16,300	16.7	14,300	14.5	8,800	12.4	SCHAEFER
	485AS1-3	55" x 55 3/4"	Aluminum	1	3	1	208-230/460	3.2/1.6	1.25	412	Belt	5	19,500	21.2	18,200	19.0	16,600	16.9	14,100	14.0	9,300	8.9	13540
	485AS112	55" x 55 3/4"	Aluminum	1 1/2	1	1	208-230	6.8-6.4	1.20	494	Belt	5	23,700	15.5	22,700	14.5	21,500	13.3	20,000	12.1	18,400	11.0	13539
	485AS112-3	55" x 55 3/4"	Aluminum	1 1/2	3	1	208-230/460	4.6-4.8/2.4	1.25	491	Belt	5	23,400	15.8	22,300	14.6	21,000	13.4	19,500	12.2	17,100	10.4	13543
VFD Compatible Models																							
VFD	245S12-3V	31" x 31 3/4"	Galvanized	1/2	3	1	208-230/460	1.9-1.8/0.9	1.0	750	Belt	5	6,600	15.2	6,100	13.1	5,600	11.3	5,000	10.1	3,900	8.2	SCHAEFER
	305S12-3V	37" x 37 3/4"	Galvanized	1/2	3	1	208-230/460	1.9-1.8/0.9	1.0	596	Belt	5	7,500	15.7	7,010	14.3	6,400	12.8	5,500	10.4	4,300	8.0	SCHAEFER
	365S12-3V	43" x 43 3/4"	Galvanized	1/2	3	1	208-230/460	1.9-1.8/0.9	1.0	496	Belt	5	10,300	22.0	9,520	19.5	8,600	17.0	6,600	12.4	4,600	8.4	SCHAEFER
	485S1-3V	55" x 55 3/4"	Galvanized	1	3	1	208-230/460	3.2/1.6	1.25	420	Belt	5	20,000	22.8	18,600	20.7	16,900	18.5	14,800	16.0	9,100	9.8	SCHAEFER
	485AS1-3V	55" x 55 3/4"	Aluminum	1	3	1	208-230/460	3.2/1.6	1.25	420	Belt	5	20,000	22.8	18,600	20.7	16,900	18.5	14,800	16.0	9,100	9.8	SCHAEFER

* All models available with OSHA hardware cloth on the input, output or both sides of the fan. Expect on average a 1.5% reduction of airflow when OSHA hardware cloth is used on one side and a 3% reduction when used on both sides.

* All models suitable for buildings with up to 6" wall thickness using standard rough-in dimensions. Rough-in Framing Tolerance: +1/4" / -0" (+6mm / -0mm)