

Performance Data



SD34 Series

Duct Size	Core Eff. Area (ft ²)	Neck Velocity (FPM)		300		400		500		600		700		800		1000		1200		1400							
		Velocity	Pressure	0.004	0.008	0.013	0.018	0.025	0.033	0.051	0.074	0.100															
10x4	0.191	CFM	57	76	95	115	134	153	191	229	267																
		NC	<20	<20	<20	20	25	30	35	40	45																
		Throw(ft.)	5	5.5	6.5	6	7	9	8	9	11	9	10	14	11	12	16	12	13.5	18	14	16	24	16	18	28	19
12x4	0.231	CFM	69	92	116	139	162	185	231	277	323																
		NC	<20	<20	<20	20	25	30	35	40	45																
		Throw(ft.)	5	5.5	6.5	6	7	9	8	9	11	9	10	14	11	12	16	12	13.5	18	14	16	24	16	18	28	19
14x4	0.271	CFM	81	108	136	163	190	217	271	325	380																
		NC	<20	<20	<20	20	25	30	35	40	45																
		Throw(ft.)	5	6.5	7.5	7	8	10	10	11	13	11	12	16	13	14.5	20	14	16	22	16	19	29	19	22	34	22
10x6	0.299	CFM	90	120	150	180	210	240	299	359	419																
		NC	<20	<20	<20	20	25	30	35	40	45																
		Throw(ft.)	5	6.5	7.5	7	8	10	10	11	13	11	12	16	13	14.5	20	14	16	22	16	19	29	19	22	34	22
12x6	0.362	CFM	109	145	181	217	254	290	362	435	507																
		NC	<20	<20	<20	20	25	30	35	40	45-50																
		Throw(ft.)	6	7	8	8	9	11	10	11.5	14	12	13	18	14	16	21	16	18	24	18	21	32	22	26	38	25
14x6	0.425	CFM	128	170	213	255	298	340	425	510	595																
		NC	<20	<20	<20	20	25	30	35	40	45-50																
		Throw(ft.)	6	7.5	9	9	10	12	11	12	14.5	12	13.5	19	14	16	22	17	19	25	19	22	33	22	26	39	25
16x6	0.488	CFM	146	195	244	293	342	391	488	586	684																
		NC	<20	<20	<20	20	25	30	35	40	45-50																
		Throw (ft.)	7	8	10	9	10	12	11	12.5	16	13	14.5	20	15	17	23	17	20	26	19	22	34	23	27	40	26
18x6	0.551	CFM	165	220	276	331	386	441	551	661	772																
		NC	<20	<20	<20	20	25	30	35	40	45-50																
		Throw(ft.)	7	8	10	9	10	12	11	12.5	16	13	14.5	20	15	17	23	17	20	27	20	23	34	23	27	41	26
14x8	0.580	CFM	174	232	290	348	406	464	580	695	811																
		NC	<20	<20	<20	20	25	30	35	40	45-50																
		Throw(ft.)	7	8	10	9	10.5	12.5	12	13	17	13	15	21	16	18	24	18	21	28	20	23	36	24	28	43	28
20x6	0.614	CFM	184	246	307	368	430	491	614	737	860																
		NC	<20	<20	<20	20	25	30	35	40	45-50																
		Throw (ft.)	7	8.5	10.5	9	10.5	13	12	13.5	17	14	15.5	21	16	18	25	18	21	28	20	24	37	25	29	44	29
16x8	0.665	CFM	200	266	333	399	466	532	665	798	931																
		NC	<20	<20	<20	20	25	30	35-40	40-45	>50																
		Throw (ft.)	8	8.5	10.5	10	11	13.5	13	14.5	18	14	16	22	17	19	26	18	21	29	21	25	38	25	30	45	30
18x8 24x6	0.751	CFM	225	300	376	451	526	601	751	901	1051																
		NC	<20	<20	<20	20	25	30	35-40	40-45	>50																
		Throw (ft.)	8	9	11	10	11.5	14.5	14	16	19	15	17	23	17	20	27	19	22	30	22	26	40	27	32	48	31
16x10 20x8	0.837	CFM	251	335	418	502	586	669	837	1004	1171																
		NC	<20	<20	<20	20	25	30	35-40	40-45	>50																
		Throw(ft.)	9	10	12	11	12.5	15	14	16	20	16	18	24	18	21	29	21	24	32	24	29	43	28	34	52	33
18x10	0.951	CFM	285	380	475	571	666	761	951	1141	1331																
		NC	<20	<20	<20	20	25	30	30-35	35-40	40-45	>50															
		Throw (ft.)	10	11	13.5	13	15	19	16	19	23	18	21	28	21	24	35	24	28	38	28	33	50	34	41	59	38

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Duct Size	Core Eff. Area (ft ²)	Neck Velocity (FPM) Velocity Pressure	300	400	500	600	700	800	1000	1200	1400
			0.004	0.008	0.013	0.018	0.025	0.033	0.051	0.074	0.100
24x8	1.008	CFM	302	403	504	605	706	807	1008	1210	1412
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>50
		Throw (ft.)	10 11.5 14.5	14 16 20	17 20 24	19 22 30	22 26 37	25 30 40	29 35 53	35 42 62	40 49 73
20x10	1.059	CFM	318	424	530	636	742	848	1059	1271	1483
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>50
		Throw (ft.)	10 11.5 14.5	14 16 20	17 20 24	19 22 30	22 26 37	25 30 40	29 35 53	35 42 62	40 49 73
18x12	1.151	CFM	345	460	575	690	805	921	1151	1381	1611
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>50
		Throw (ft.)	10 11.5 14.5	14 16 20	17 20 24	20 23 31	22 26 37	26 31 41	29 35 53	35 42 64	43 53 74
20x12 24x10	1.277	CFM	383	511	638	766	894	1021	1277	1532	1787
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>55
		Throw (ft.)	11 12.5 15.5	16 18 22	19 22 25	21 24 34	24 29 40	28 33 45	32 38 58	39 46 69	46 56 80
24x12	1.545	CFM	463	618	772	927	1081	1236	1545	1854	2163
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>55
		Throw (ft.)	13 14.5 18	17 19 23	20 23 28	23 27 37	27 32 43	30 36 48	35 42 64	40 50 76	48 59 89
30x10	1.602	CFM	481	641	801	961	1122	1282	1602	1923	2243
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>55
		Throw (ft.)	13 15 19	18 20 24	21 24 29	24 28 38	28 33 44	31 38 49	36 43 65	41 51 78	49 60 91
30x12 36x10	1.939	CFM	582	776	969	1163	1357	1551	1939	2327	2714
		NC	<20	<20	20	25	30	30-35	35-40	45-50	>55
		Throw (ft.)	14 16 20	19 22 26	22 26 32	25 30 40	29 35 47	33 40 54	38 47 71	46 57 85	53 66 98
36x12	2.333	CFM	700	933	1167	1400	1633	1866	2333	2800	3266
		NC	<20	<20	20	25	30	30-35	35-40	45-50	>55
		Throw (ft.)	15 17 21	20 23 29	25 29 35	28 33 45	32 38 52	36 44 60	42 52 78	50 62 94	59 73 109

Performance Notes:

- 1) Performance data calculated with blades set at 0°
- 2) Throw values are measured in feet for terminal velocities of 150/100/50 FPM
- 3) Throw data is based on supply air and room air both at isothermal conditions
- 4) Effective core areas listed in chart are defined as the measurement of space between the blades actually utilized by the air
- 5) Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006