

Performance Data



SD52 Series

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																
10x4	0.210	CFM	63	84	105	126	147	168	210	252	293																
		NC	<20	<20	<20	20	25	30	35	40	45																
		Throw (ft.)	4	5	6	5	6.5	8.5	8	8.5	9.5	7	8.5	11	10	11	15	11	12	16	13	14	20	14	16	24	18
12x4	0.254	CFM	76	101	127	152	178	203	254	304	355																
		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	0.298	CFM	89	119	149	179	208	238	298	357	417																
		NC	<20	<20	<20	20	25	30	35	40	45																
		Throw (ft.)	5	6	7	6	7.5	9.5	9	10	12	10	11	15	12	14	19	13	15	20	16	18	27	18	21	33	21
10x6	0.329	CFM	99	132	165	198	231	264	329	395	461																
		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	17	19	29	19	22	34	22
12x6	0.399	CFM	120	159	199	239	279	319	399	478	558																
		NC	<20	<20	<20	20	25	30	35	40	45-50																
		Throw (ft.)	6	7	9	9	10	12	10	11.5	14.5	12	13.5	18	14	16	22	16	18	24	19	22	32	22	26	38	25
14x6	0.468	CFM	140	187	234	281	328	374	468	561	655																
		NC	<20	<20	<20	20	25	30	35	40	45-50																
		Throw (ft.)	7	8	10	10	11	13	11	13	16	14	16	21	15	17	23	18	20	27	20	23	35	24	28	42	27
16x6	0.537	CFM	161	215	269	322	376	430	537	645	752																
		NC	<20	<20	<20	20	25	30	35	40	45-50																
		Throw (ft.)	8	8.5	11	10	11.5	13.5	12	13.5	17	14	16	22	16	18	25	18	20	28	21	24	36	25	29	45	28
18x6	0.606	CFM	182	243	303	364	424	485	606	728	849																
		NC	<20	<20	<20	20	25	30	35	40	45-50																
		Throw (ft.)	8	8.5	11	10	11.5	14.5	12	14.5	18	15	17	23	18	20	27	19	22	30	22	26	38	26	31	47	29
14x8	0.638	CFM	191	255	319	383	447	510	638	766	893																
		NC	<20	<20	<20	20	25	30	35	40	45-50																
		Throw (ft.)	8	9	11.5	11	13	16	14	16	19	16	18	24	19	21	28	20	23	31	23	27	39	27	32	48	30
20x6	0.676	CFM	203	270	338	405	473	540	676	811	946																
		NC	<20	<20	<20	20	25	30	35	40	45-50																
		Throw (ft.)	8	9	11.5	11	13	16	14	16	19	16	18	24	19	21	28	20	23	31	23	27	39	27	32	48	30
16x8	0.732	CFM	220	293	366	439	513	586	732	879	1025																
		NC	<20	<20	<20	20	25	30	35-40	40-50	>50																
		Throw (ft.)	9	10	12.5	12	14	17	15	17	20	17	19	25	20	23	30	22	25	33	25	29	41	29	35	51	32
18x8 24x6	0.827	CFM	248	331	413	496	579	661	827	992	1158																
		NC	<20	<20	<20	20	25	30	35-40	40-50	>50																
		Throw (ft.)	9	10	12.5	12	14	18	16	18	21	18	20	26	20	23	34	23	26	35	26	30	46	30	36	55	34
16x10 20x8	0.921	CFM	276	368	461	553	645	737	921	1105	1290																
		NC	<20	<20	<20	20	25	30	35-40	40-50	>50																
		Throw (ft.)	9	11	13.5	13	15	19	17	19	23	19	21	28	21	24	35	24	28	38	27	33	50	33	41	59	38
18x10	1.047	CFM	314	419	524	628	733	838	1047	1257	1466																
		NC	<20	<20	<20	20	25	30	30-35	35-40	>50																
		Throw (ft.)	10	11.5	14	14	16	20	18	20	24	19	22	29	22	25	36	25	29	39	28	34	51	34	42	60	39

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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															
24x8	1.110	CFM	333	444	555	666	777	888	1110	1332	1554																
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>50																
		Throw (ft.)	10	11.5	14.5	14	16	20	18	20	24	19	22	30	23	26	37	25	30	40	29	35	53	34	42	62	40
20x10	1.167	CFM	350	467	583	700	817	934	1167	1400	1634																
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>50																
		Throw (ft.)	10	11.5	14.5	14	16	20	18	20	24	19	22	30	23	26	37	25	30	40	29	35	53	34	42	62	40
18x12	1.268	CFM	380	507	634	761	887	1014	1268	1521	1775																
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>50																
		Throw (ft.)	11	12.5	15	14	16	20	18	20	24	20	23	32	23	27	38	26	31	42	29	35	55	35	43	65	43
20x12 24x10	1.413	CFM	424	565	706	848	989	1130	1413	1695	1978																
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>55																
		Throw (ft.)	11	12.5	16	15	18	22	19	22	25	21	24	34	25	29	40	27	33	45	31	38	58	37	46	69	45
24x12	1.702	CFM	511	681	851	1021	1191	1362	1702	2042	2383																
		NC	<20	<20	20	25	30	30-35	35-40	40-45	>50																
		Throw (ft.)	13	14.5	18	17	19	23	20	23	28	23	27	37	27	32	43	29	36	48	34	42	64	41	50	76	48
30x10	1.765	CFM	529	706	882	1059	1235	1412	1765	2118	2471																
		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	30	38	49	35	43	65	42	51	78	49
30x12 36x10	2.123	CFM	637	849	1062	1274	1486	1699	2123	2548	2973																
		NC	<20	<20	20	25	30	30-35	35-40	45-50	>50																
		Throw (ft.)	14	16	20	19	22	26	22	26	32	25	30	40	29	35	47	32	40	54	38	47	71	46	57	85	53
36x12	2.571	CFM	771	1028	1285	1542	1799	2056	2571	3085	3599																
		NC	<20	<20	20	25	30	30-35	35-40	45-50	>50																
		Throw (ft.)	15	17	21	20	23	29	24	29	35	27	33	45	31	38	52	36	44	60	42	52	78	50	62	94	60

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