

Performance Data



100 Series

Duct Size	Core Eff. Area (ft ²)	Neck Velocity (FPM)		300		400		500		600		700		800		900		1000		1200							
		Velocity	Pressure	0.007		0.011		0.017		0.024		0.034		0.044		0.055		0.068		0.1							
6x6	0.138	CFM	41		55		69		83		96		110		124		138		165								
		NC	<20		20		25		30		30		30		35		35		40								
		Throw	2	3	5	4	4.5	5.5	5	5.5	6.5	5	6	8	6	7	9.5	7	8	11	8	9	13	8	9.5	15	9
8x8	0.250	CFM	75		100		125		150		175		200		225		250		300								
		NC	<20		20		25		30		30		30		35		35		40								
		Throw	3	4.5	6	5	5.5	6.5	6	7	8.5	7	8	10.5	8	9.5	12.5	9	10	14	9	11	16	10	12	18	11
10x10	0.396	CFM	119		158		198		238		277		317		356		396		475								
		NC	<20		20		25		30		30		30		35		35		40								
		Throw	4	5	6	6	6.5	7.5	7	8	9.5	8	9.5	11.5	9	10	14	10	12	16	11	13	19	12	14	20	13
12x12	0.575	CFM	173		230		288		345		403		460		518		575		690								
		NC	<20		25		30		30		30		30		35		35		40								
		Throw	4	5.5	6.5	7	8	10	8	9.5	11.5	9	11	14	10	12	16	12	14	18	13	15	22	14	16	24	15
14x14	0.788	CFM	236		315		394		473		551		630		709		788		945								
		NC	<20		25		30		30		30		30		35		35		40								
		Throw	5	6	8	7	8.5	11	8	11	13	11	13	17	13	15	20	14	16	22	15	17	25	16	19	29	18
16x16	1.034	CFM	310		413		517		620		724		827		930		1034		1240								
		NC	<20		25		30		30		30		30		35		35		40								
		Throw	6	7	9	8	9.5	11.5	10	12	14.5	12	14	18.5	14	16	22	16	18	24	16	18	28	19	22	32	20
18x18	1.313	CFM	394		525		656		788		919		1050		1181		1313		1575								
		NC	20		25		30		30		35		35		40		40		40								
		Throw	7	8	10	9	10	13	12	14	17	14	16	21	16	18	24	17	20	28	19	22	32	20	24	36	22
20x20	1.625	CFM	488		650		813		975		1138		1300		1463		1625		1950								
		NC	20		25		30		30		35		35		35		40		40								
		Throw	8	9	11	10	12	14.5	14	16	19	15	17	22	17	20	27	20	23	31	21	24	35	22	26	40	24
24x24	2.350	CFM	705		940		1175		1410		1645		1880		2115		2350		2820								
		NC	20		25		30		30		35		35		40		40		40								
		Throw	8	10	12.5	12	14	17	16	18	22	17	20	27	20	24	32	23	27	37	24	28	42	25	30	46	26

Performance Notes:

- 1) Throw values are measured in feet for terminal velocities of 150/100/50 FPM
- 2) Throw data is based on supply air and room air both at isothermal conditions
- 3) Effective core areas listed in chart are defined as the measurement of space between the blades actually being utilized by the air

Performance Data



100 D Series

Duct Size	Core Eff. Area (ft ²)	Neck Velocity (FPM) Velocity Pressure	300			400			500			600			700			800			900			1000			1200		
			0.007	0.011	0.017	0.024	0.034	0.044	0.055	0.068	0.1																		
6x6	0.131	CFM	39			52			65			79			92			105			118			131			157		
		NC	<20			20			25			30			30			30			35			35			40		
		Throw	2	2.5	3.5	3	4	5	4	4.5	5.5	4	5	7	5	6.5	8.5	6	7	10	6	7.5	10	7	8	12	8	9.5	15
8x8	0.238	CFM	71			95			119			143			166			190			214			238			285		
		NC	<20			20			25			30			30			30			35			35			40		
		Throw	3	4	5	4	4.5	6	5	6	7	6	7	9	6	7.5	11	7	8.5	12	8	9	14	9	10.5	16	10	11.5	17
10x10	0.376	CFM	113			151			188			226			263			301			339			376			452		
		NC	<20			20			25			30			30			30			35			35			40		
		Throw	3	4	5.5	5	5.5	6.5	6	7	8.5	7	7.5	11	8	9.5	13	9	10	14	9	11	17	10	12	18	11	13.5	20
12x12	0.546	CFM	164			219			273			328			383			437			492			546			656		
		NC	<20			25			30			30			30			30			35			35			40		
		Throw	4	5	6	6	7	9	7	8	10	8	9.5	13	9	10	14	11	12.5	17	12	13.5	20	12	14.5	22	15	17	25
14x14	0.748	CFM	225			299			374			449			524			599			674			748			898		
		NC	<20			25			30			30			30			30			35			35			40		
		Throw	5	6	7	6	7.5	9.5	8	10	12	9	10.5	15	11	13	17	12	14	19	13	15	22	15	17	25	16	19	29
16x16	0.982	CFM	295			393			491			589			687			786			884			982			1178		
		NC	<20			25			30			30			30			30			35			35			40		
		Throw	6	6.5	8	7	8.5	10.5	9	10.5	12.5	10	12.5	17	12	14.5	20	14	16	22	14	16	25	16	19	29	18	22	34
18x18	1.247	CFM	374			499			624			748			873			998			1122			1247			1497		
		NC	<20			25			30			30			35			35			35			35			40		
		Throw	6	7	9	8	9	11	10	11.5	15	11	13.5	18	13	15.5	21	16	18	24	17	20	30	18	21	31	19	23	35
20x20	1.544	CFM	463			618			772			926			1081			1235			1390			1544			1853		
		NC	<20			25			30			30			35			35			35			40			40		
		Throw	7	8	10	9	10	12	11	13.5	17	12	14	19	15	17	24	17	20	28	18	21	31	20	23	34	20	24	36
24x24	2.233	CFM	670			893			1116			1340			1563			1786			2009			2233			2679		
		NC	<20			25			30			30			35			35			35			40			40		
		Throw	8	9.5	11	10	11.5	14.5	13	15.5	19	15	17	23	17	20	28	20	24	33	21	25	39	22	26	40	23	28	42

Performance Notes:

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Performance Data



100 O Series

Duct Size	Core Eff. Area (ft ²)	Neck Velocity (FPM) Velocity Pressure	300	400	500	600	700	800	900	1000	1200
			0.007	0.011	0.017	0.024	0.034	0.044	0.055	0.068	0.1
6x6	0.131	CFM	39	52	65	79	92	105	118	131	157
		NC	<20	20	25	30	30	30	35	35	40
		Throw	2 2.5 3.5	3 4 5	4 4.5 5.5	4 5 7	5 6.5 8.5	6 7 10	6 7.5 10	7 8 12	8 9.5 15
8x8	0.238	CFM	71	95	119	143	166	190	214	238	285
		NC	<20	20	25	30	30	30	35	35	40
		Throw	3 4 5	4 4.5 6	5 6 7	6 7 9	6 7.5 11	7 8.5 12	8 9 14	9 10.5 16	10 11.5 17
10x10	0.376	CFM	113	151	188	226	263	301	339	376	452
		NC	<20	20	25	30	30	30	35	35	40
		Throw	3 4 5.5	5 5.5 6.5	6 7 8.5	7 7.5 11	8 9.5 13	9 10 14	9 11 17	10 12 18	11 13.5 20
12x12	0.546	CFM	164	219	273	328	383	437	492	546	656
		NC	<20	25	30	30	30	30	35	35	40
		Throw	4 5 6	6 7 9	7 8 10	8 9.5 13	9 10 14	11 12.5 17	12 13.5 20	12 14.5 22	15 17 25
14x14	0.748	CFM	225	299	374	449	524	599	674	748	898
		NC	<20	25	30	30	30	30	35	35	40
		Throw	5 6 7	6 7.5 9.5	8 10 12	9 10.5 15	11 13 17	12 14 19	13 15 22	15 17 25	16 19 29
16x16	0.982	CFM	295	393	491	589	687	786	884	982	1178
		NC	<20	25	30	30	30	30	35	35	40
		Throw	6 6.5 8	7 8.5 10.5	9 10.5 12.5	10 12.5 17	12 14.5 20	14 16 22	14 16 25	16 19 29	18 22 34
18x18	1.247	CFM	374	499	624	748	873	998	1122	1247	1497
		NC	<20	25	30	30	35	35	35	35	40
		Throw	6 7 9	8 9 11	10 11.5 15	11 13.5 18	13 15.5 21	16 18 24	17 20 30	18 21 31	19 23 35
20x20	1.544	CFM	463	618	772	926	1081	1235	1390	1544	1853
		NC	<20	25	30	30	35	35	35	40	40
		Throw	7 8 10	9 10 12	11 13.5 17	12 14 19	15 17 24	17 20 28	18 21 31	20 23 34	20 24 36
24x24	2.233	CFM	670	893	1116	1340	1563	1786	2009	2233	2679
		NC	<20	25	30	30	35	35	35	40	40
		Throw	8 9.5 11	10 11.5 14.5	13 15.5 19	15 17 23	17 20 28	20 24 33	21 25 39	22 26 40	23 28 42

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