

Performance Data



1/2" Linear Supply Diffusers

Size (Width In.)	Core Eff. Area (ft ²)	Neck Velocity (FPM) Velocity Pressure	300 .006	400 .010	500 .015	600 .021	700 .029	800 .038	900 .048	1000 .065														
1 1/2	0.070	CFM/ft	21		28		35		42		49		56		63		70							
		NC	<20		<20		<20		20		25		25-30		30-35		35							
		Throw	2	3	4	3	4.5	5.5	4	5	6	5	6	8	6	7	9	7	8	11	8	8.5	12.5	9
2	0.100	CFM/ft	30		40		50		60		70		80		90		100							
		NC	<20		<20		<20		20		25		25-30		30-35		35							
		Throw	3	4	5	4	5.5	6.5	6	7	9	7	8	11	9	10	13	9	10.5	14.5	10	12	18	11
2 1/2	0.130	CFM/ft	39		52		65		78		91		104		117		130							
		NC	<20		<20		<20		20		25		25-30		30-35		35							
		Throw	4	5	6	5	6.5	7.5	7	8	10	8	9	11.5	9	10.5	14.5	10	11.5	16	11	13	20	12
3	0.160	CFM/ft	48		64		80		96		112		128		144		160							
		NC	<20		<20		<20		20		25		25-30		30-35		35							
		Throw	5	5.5	6.5	6	7	9	8	9.5	11.5	9	10.5	14.5	11	13	17	12	14	19	14	16	23	15
3 1/2	0.190	CFM/ft	57		76		95		114		133		152		171		190							
		NC	<20		<20		20		20		25		30		35		40							
		Throw	6	6.5	7.5	7	8	10	9	10.5	12.5	10	11.5	16	12	14	19	13	15	21	15	17	25	16
4	0.220	CFM/ft	66		88		110		132		154		176		198		220							
		NC	<20		<20		20		25		25		30		35		40							
		Throw	6	7	8.5	8	9.5	11.5	10	11.5	14	11	13	18	13	15	21	16	18	24	16	18	26	17
5	0.280	CFM/ft	84		112		140		168		196		224		252		280							
		NC	<20		<20		20		25		30		30-35		35-40		40							
		Throw	7	8	10	9	10.5	12.5	11	13.5	17	12	14	19	15	17	22	17	19	26	17	20	31	20
6	0.339	CFM/ft	102		136		170		204		238		272		305		339							
		NC	<20		<20		20		25		30		30		35-40		40							
		Throw	8	8.5	10.5	10	11.5	14	12	14	17	15	17	22	16	18	24	19	22	30	21	24	36	23
8	0.459	CFM/ft	138		184		230		276		321		367		413		459							
		NC	<20		<20		20		25		30		30-35		35-40		40							
		Throw	9	10.5	12.5	12	13.5	17	13	15	18	16	18	24	19	22	29	21	24	33	22	26	40	25
10	0.579	CFM/ft	174		232		289		347		405		463		521		579							
		NC	<20		20		25		25-30		30-35		30-35		40		45							
		Throw	10	11.5	14	13	15	18	17	19	23	17	20	28	21	24	33	24	28	38	25	30	45	27
12	0.699	CFM/ft	210		280		349		419		489		559		629		699							
		NC	<20		20		25		30		35		35-40		40		45							
		Throw	12	13.5	17	14	16	20	19	22	26	21	24	33	23	27	36	26	31	41	26	31	47	31
14	0.819	CFM/ft	246		327		409		491		573		655		737		819							
		NC	<20		20		25		30		35-40		40		45		45							
		Throw	14	16	20	18	20	25	21	24	30	22	26	35	25	29	40	27	32	43	30	36	54	35

Performance Notes:

- All values in above table are per linear foot
- Throw values are measured in feet for terminal velocities of 150/100/50 FPM
- Throw data is based on supply air and room air both at isothermal conditions
- Effective core areas listed in chart are defined as the measurement of space between blades actually being utilized by the air
- Data obtained from tests conducted in accordance with ANSI/ASHRAE standard 70-2006

Throw Correction for Length

Active Length (feet)	1'	2'	3'	4'
Throw Correction	1 (published)	1.4	1.9	2.4