

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	0.049	CFM/ft NC	15 <20	20 <20	24 <20	29 20	34 25	39 25-30	44 30-35	49 35
		Throw	2 3 4	3 4.5 5.5	4 5 6	5 6 8	6 7 9	7 8 11	8 9 12.5	9 10 14.5
2	0.078	CFM/ft NC	23 <20	31 <20	39 <20	47 20	55 25	63 25-30	70 30-35	78 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 13 20
2 1/2	0.107	CFM/ft NC	32 <20	43 <20	54 <20	64 20	75 25	86 25-30	97 30-35	107 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 14 22
3	0.137	CFM/ft NC	41 <20	55 <20	68 <20	82 20	96 25	109 25-30	123 30-35	137 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 17 26
3 1/2	0.166	CFM/ft NC	50 <20	66 <20	83 20	100 20	116 25	133 30	149 35	166 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 18 27
4	0.195	CFM/ft NC	59 <20	78 <20	98 20	117 25	137 25	156 30	176 35	195 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 19 29
5	0.254	CFM/ft NC	76 <20	102 <20	127 20	152 25	178 30	203 30-35	229 35-40	254 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 23 34
6	0.313	CFM/ft NC	94 <20	125 <20	156 20	188 25	219 30	250 30	281 35-40	313 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 26 39
8	0.430	CFM/ft NC	129 <20	172 <20	215 20	258 25	301 30	344 30-35	387 35-40	430 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 30 45
10	0.547	CFM/ft NC	164 <20	219 20	273 25	328 25-30	383 30-35	438 30-35	492 40	547 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 32 49
12	0.664	CFM/ft NC	199 <20	266 20	332 25	398 30	465 35	531 35-40	598 40	664 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 37 56
14	0.781	CFM/ft NC	234 <20	313 20	391 25	469 30	547 35-40	625 40	703 45	781 45
		Throw	14 16 20	18 20 25	21 24 30	22 26 35	25 29 40	27 32 43	30 36 54	35 42 63

Performance Notes:

- 1) All values in above table are per linear foot
- 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 blades actually being utilized by the air
- 5) 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