

Performance Data



1/3" 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	0.065	CFM/ft	19	26	32	39	45	52	58	65
		NC	<20	<20	<20	20	25	25-30	30-35	35
		Throw (ft.)	2 2 3	2 3 4	4 4.5 5.5	4 4.5 6.5	5 6 8	6 7 9	7 7.5 11.5	8 9 13
2	0.090	CFM/ft	27	36	45	54	63	72	81	90
		NC	<20	<20	<20	20	25	25-30	30-35	35
		Throw (ft.)	3 4 5	4 4.5 5.5	5 6 8.5	6 7 9	7 8 11	8 9 13	8 9.5 14.5	10 11 17
2 1/2	0.115	CFM/ft	34	46	57	69	80	92	103	115
		NC	<20	<20	20	20	25	25-30	30-35	35
		Throw (ft.)	4 4.5 5.5	5 5.5 6.5	6 7 9	7 8 11	8 9.5 12.5	9 10 14	10 11 17	11 12.5 19
3	0.140	CFM/ft	42	56	70	84	98	112	126	140
		NC	<20	<20	20	20	25	25-30	30-35	35
		Throw (ft.)	4.5 5 6	6 6.5 7.5	7 8.5 10.5	8 9.5 12.5	9 10 14	11 12 16	11 12.5 19	12 14.5 22
3 1/2	0.165	CFM/ft	49	66	82	99	115	132	148	165
		NC	<20	<20	20	20	25	30	35	35-40
		Throw (ft.)	4.5 5 6	6 7 9	8 9 11	9 10 13	10 11 15	12 13 17	12 14 21	14 16 24
4	0.190	CFM/ft	57	76	95	114	133	152	171	190
		NC	<20	<20	20	25	25	30	35	40
		Throw (ft.)	5 5.5 6.5	6 7 9	9 10 12	10 11.5 16	11 13 18	13 15 21	14 16 24	15 17 26
5	0.240	CFM/ft	72	96	120	144	168	192	216	240
		NC	<20	<20	20	20	25	30	35	40
		Throw (ft.)	6 7 8.5	7 8 10	10 11 13	11 13 17	12 14 19	14 16 21	15 17 25	16 18 28
6	0.289	CFM/ft	87	116	145	174	203	232	261	289
		NC	<20	<20	20	25	25-30	30	35-40	40
		Throw (ft.)	6 7 9	9 10 12	11 12.5 16	12 14 18	14 16 21	15 17 23	16 18 27	18 20 31
8	0.389	CFM/ft	117	156	195	234	273	311	350	389
		NC	<20	<20	20	25	30	30-35	35-40	40
		Throw (ft.)	7 8 10	10 11 14	12 14 17	13 15 21	15 17 23	16 19 26	18 20 31	21 24 36
10	0.489	CFM/ft	147	196	245	293	342	391	440	489
		NC	<20	20	25	25-30	30	30-35	40	40
		Throw (ft.)	10 11 13	11 12 15	14 16 20	15 17 23	17 19 26	19 22 29	21 24 36	25 29 43
12	0.589	CFM/ft	177	236	294	353	412	471	530	589
		NC	<20	20	25	30	35	40	40	45
		Throw (ft.)	10 11.5 14	11 12.5 16	16 18 22	17 20 27	20 23 31	23 27 36	25 29 43	26 31 47
14	0.689	CFM/ft	207	276	344	413	482	551	620	689
		NC	<20	20	25	30	35-40	40	45	45
		Throw (ft.)	11 12 15	12 13.5 17	17 19 24	19 22 29	23 27 36	25 29 40	26 30 45	28 34 50

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