

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	0.044	CFM/ft	13	18	22	26	31	35	40	44
		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	0.068	CFM/ft	21	27	34	41	48	55	62	68
		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	0.093	CFM/ft	28	37	46	56	65	74	83	93
		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	0.117	CFM/ft	35	47	59	70	82	94	105	117
		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	0.142	CFM/ft	42	57	71	85	99	113	127	142
		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	0.166	CFM/ft	50	66	83	100	116	133	149	166
		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	0.215	CFM/ft	64	86	107	129	150	172	193	215
		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	0.264	CFM/ft	79	105	132	158	185	211	237	264
		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	0.361	CFM/ft	108	145	181	217	253	289	325	361
		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	0.459	CFM/ft	138	184	229	275	321	367	413	459
		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	0.557	CFM/ft	167	223	278	334	390	445	501	557
		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	0.654	CFM/ft	196	262	327	393	458	523	589	654
		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