

# Performance Data



## 1/3" Linear Removable Core Supply Diffusers

Size (Width In.)	Core Eff. Area (ft <sup>2</sup> )	Neck Velocity (FPM)	300	400	500	600	700	800	900	1000
		Velocity Pressure	.006	.010	.015	.021	.029	.038	.048	.065
		CFM/ft	13	18	22	26	31	35	40	44
		NC	<20	<20	<20	20	25	25-30	30-35	35
1 1/2	0.044	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
		CFM/ft	21	27	34	41	48	55	62	68
		NC	<20	<20	<20	20	25	25-30	30-35	35
2	0.068	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
		CFM/ft	28	37	46	56	65	74	83	93
		NC	<20	<20	20	20	25	25-30	30-35	35
2 1/2	0.093	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
		CFM/ft	35	47	59	70	82	94	105	117
		NC	<20	<20	20	20	25	25-30	30-35	35
3	0.117	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
		CFM/ft	42	57	71	85	99	113	127	142
		NC	<20	<20	20	20	25	30	35	35-40
3 1/2	0.142	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
		CFM/ft	50	66	83	100	116	133	149	166
		NC	<20	<20	20	25	25	30	35	40
4	0.166	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
		CFM/ft	64	86	107	129	150	172	193	215
		NC	<20	<20	20	20	25	30	35	40
5	0.215	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
		CFM/ft	79	105	132	158	185	211	237	264
		NC	<20	<20	20	25	25-30	30	35-40	40
6	0.264	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
		CFM/ft	108	145	181	217	253	289	325	361
		NC	<20	<20	20	25	30	30-35	35-40	40
8	0.361	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
		CFM/ft	138	184	229	275	321	367	413	459
		NC	<20	20	25	25-30	30	30-35	40	40
10	0.459	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
		CFM/ft	167	223	278	334	390	445	501	557
		NC	<20	20	25	30	35	40	40	45
12	0.557	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
		CFM/ft	196	262	327	393	458	523	589	654
		NC	<20	20	25	30	35-40	40	45	45
14	0.654	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