

# Performance Data



## 1/3" Linear Supply Diffusers

Size (Width In.)	Core Eff. Area (ft <sup>2</sup> )	Neck Velocity (FPM)	300	400	500	600	700	800	900	1000																
1 1/2	0.065	Velocity Pressure	.006			.010			.015			.021			.029			.038			.048			.065		
		CFM/ft	19			26			32			39			45			52			58			65		
		NC	<20			<20			<20			20			25			25-30			30-35			35		
2	0.090	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	27			36			45			54			63			72			81			90		
		NC	<20			<20			<20			20			25			25-30			30-35			35		
2 1/2	0.115	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	34			46			57			69			80			92			103			115		
		NC	<20			<20			20			20			25			25-30			30-35			35		
3	0.140	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	42			56			70			84			98			112			126			140		
		NC	<20			<20			20			20			25			25-30			30-35			35		
3 1/2	0.165	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	49			66			82			99			115			132			148			165		
		NC	<20			<20			20			20			25			30			35			35-40		
4	0.190	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	57			76			95			114			133			152			171			190		
		NC	<20			<20			20			25			25			30			35			40		
5	0.240	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	72			96			120			144			168			192			216			240		
		NC	<20			<20			20			20			25			30			35			40		
6	0.289	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	87			116			145			174			203			232			261			289		
		NC	<20			<20			20			25			25-30			30			35-40			40		
8	0.389	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	117			156			195			234			273			311			350			389		
		NC	<20			<20			20			25			30			30-35			35-40			40		
10	0.489	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	147			196			245			293			342			391			440			489		
		NC	<20			20			25			25-30			30			30-35			40			40		
12	0.589	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	177			236			294			353			412			471			530			589		
		NC	<20			20			25			30			35			40			40			45		
14	0.689	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	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