

Performance Data



1/2" Linear Supply Diffusers

Size (Width In.)	Core Eff. Area (ft ²)	Neck Velocity (FPM) Velocity Pressure	300			400			500			600			700			800			900			1000		
			.006			.010			.015			.021			.029			.038			.048			.065		
1 1/2	0.070	CFM/ft	21			28			35			42			49			56			63			70		
		NC	<20			<20			<20			20			25			25-30			30-35			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	0.100	CFM/ft	30			40			50			60			70			80			90			100		
		NC	<20			<20			<20			20			25			25-30			30-35			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	0.130	CFM/ft	39			52			65			78			91			104			117			130		
		NC	<20			<20			<20			20			25			25-30			30-35			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	0.160	CFM/ft	48			64			80			96			112			128			144			160		
		NC	<20			<20			<20			20			25			25-30			30-35			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	0.190	CFM/ft	57			76			95			114			133			152			171			190		
		NC	<20			<20			20			20			25			30			35			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	0.220	CFM/ft	66			88			110			132			154			176			198			220		
		NC	<20			<20			20			25			25			30			35			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	0.280	CFM/ft	84			112			140			168			196			224			252			280		
		NC	<20			<20			20			25			30			30-35			35-40			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	0.339	CFM/ft	102			136			170			204			238			272			305			339		
		NC	<20			<20			20			25			30			30			35-40			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	0.459	CFM/ft	138			184			230			276			321			367			413			459		
		NC	<20			<20			20			25			30			30-35			35-40			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	0.579	CFM/ft	174			232			289			347			405			463			521			579		
		NC	<20			20			25			25-30			30-35			30-35			40			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	0.699	CFM/ft	210			280			349			419			489			559			629			699		
		NC	<20			20			25			30			35			35-40			40			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	0.819	CFM/ft	246			327			409			491			573			655			737			819		
		NC	<20			20			25			30			35-40			40			45			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:

- All values in above table are per linear foot
- Throw values are measured in feet for terminal velocities of 150/100/50 FPM
- Throw data is based on supply air and room air both at isothermal conditions
- Effective core areas listed in chart are defined as the measurement of space between blades actually being utilized by the air
- 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