

Performance Data



1/2" Linear Removable Core Supply Diffusers

Size (Width In.)	Core Eff. Area (ft ²)	Neck Velocity (FPM)		300			400			500			600			700			800			900			1000		
		Velocity	Pressure	.006			.010			.015			.021			.029			.038			.048			.065		
1 1/2	0.049	CFM/ft	15			20			24			29			34			39			44			49			
		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	0.078	CFM/ft	23			31			39			47			55			63			70			78			
		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	0.107	CFM/ft	32			43			54			64			75			86			97			107			
		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	0.137	CFM/ft	41			55			68			82			96			109			123			137			
		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	0.166	CFM/ft	50			66			83			100			116			133			149			166			
		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	0.195	CFM/ft	59			78			98			117			137			156			176			195			
		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	0.254	CFM/ft	76			102			127			152			178			203			229			254			
		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	0.313	CFM/ft	94			125			156			188			219			250			281			313			
		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	0.430	CFM/ft	129			172			215			258			301			344			387			430			
		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	0.547	CFM/ft	164			219			273			328			383			438			492			547			
		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	0.664	CFM/ft	199			266			332			398			465			531			598			664			
		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	0.781	CFM/ft	234			313			391			469			547			625			703			781			
		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:

- 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