



PERFORMANCE DATA



InviAir 1 Slot Round Diffuser

SIZE		50, 100, 150	50, 100, 150	50, 100, 150	50, 100, 150	50, 100, 150	50, 100, 150	50, 100, 150	50, 100, 150	50, 100, 150	50, 100, 150	
8	Area	CFM	17	35	52	69	87	104	122	139	156	174
	Factor (Ak)	SP (in., wg)	0.004	0.015	0.033	0.056	0.085	0.120	0.160	0.205	0.256	0.311
		NC	<15	<15	<15	17	21	25	28	31	33	35
	0.058	Throw (Ft.)	<2,<2,<2	3,<2,<2	4,<2,<2	5,2,<2	6,3,<2	7,4,2	9,5,3	10,6,3	11,6,4	11,7,4
12"	Area	CFM	39	78	118	157	196	235	275	314	353	392
	Factor (Ak)	SP (in., wg)	0.007	0.025	0.054	0.094	0.145	0.206	0.277	0.358	0.449	0.550
		NC	<15	<15	<15	16	24	30	35	40	44	48
	0.106	Throw (Ft.)	2,<2,<2	4,<2,<2	6,3,2	8,5,3	10,6,4	11,8,5	12,9,6	13,9,7	13,10,8	13,11,8
18"	Area	CFM	88	176	265	353	441	529	617	706	794	882
	Factor (Ak)	SP (in., wg)	0.010	0.038	0.084	0.147	0.227	0.323	0.436	0.566	0.712	0.874
		NC	<15	<15	<15	19	30	39	47	>50	>50	>50
	0.213	Throw (Ft.)	3,<2,<2	7,4,3	11,7,5	14,10,7	16,12,9	18,14,10	19,15,12	20,16,13	20,17,14	19,17,14
24"	Area	CFM	157	314	471	628	785	942	1099	1256	1413	1569
	Factor (Ak)	SP (in., wg)	0.010	0.039	0.084	0.146	0.223	0.316	0.424	0.546	0.684	0.836
		NC	<15	16	27	35	41	46	50	>50	>50	>50
	0.347	Throw (Ft.)	4,<2,<2	9,5,3	13,9,6	17,13,9	21,15,11	24,18,13	26,20,14	28,21,15	30,22,16	31,22,16

- Note:
1. Performance Data is Based on ASHRAE 70-06
 2. CFM: Standard air density and isothermal condition
 3. Static Pressure (SP): Inches of water gaug
 4. Face Velocity: Face discharge velocity in feet per minute (fpm)
 5. Noise Criteria: NC Level is based on Room Attenuation of 10 db (Sound Power Level Re: 10-12 watts) with one diffuser operatin
 6. Terminal Velocity: Maximum velocity [Vt] in feet per minute at the specified distance from the outlet fac
 7. Throw: Projection distance in feet from the diffuser discharge at which the maximum velocity has been reduced to specified terminal velocity [Vt]