



**PERFORMANCE DATA**  
**INVAIR 2-SLOT SQUARE DIFFUSER, 45° OPENING**



ALL PERFORMANCE DATA FROM TESTING CONDUCTED BY  
 INTERTEK GROUP, IN ACCORDANCE WITH ASHRAE 70-06

DIFFUSER SIZE	AREA FACTOR (Ak)	PARAMETERS	PERFORMANCE						
			VOLUME (CFM)	STATIC PRESSURE (in. w.g.)	NOISE CRITERIA	THROW (ft. at 50 / 100 / 150 fpm)	150	200	250
<b>12" x 12"</b>	0.228	VOLUME (CFM)	150	200	250	300	350	400	
		STATIC PRESSURE (in. w.g.)	.019	.032	.048	.068	.091	.116	
		NOISE CRITERIA	<15	<15	<15	15	20	25	
		THROW (ft. at 50 / 100 / 150 fpm)	11 / 6 / 3	14 / 8 / 5	18 / 11 / 6	21 / 13 / 8	24 / 16 / 10	26 / 18 / 12	
<b>18" x 18"</b>	0.478	VOLUME (CFM)	225	338	450	563	675	788	
		STATIC PRESSURE (in. w.g.)	.009	.018	.030	.044	.060	.078	
		NOISE CRITERIA	<15	<15	19	24	29	33	
		THROW (ft. at 50 / 100 / 150 fpm)	10 / 4 / 2	14 / 7 / 4	17 / 9 / 6	21 / 12 / 8	24 / 14 / 10	26 / 17 / 12	
<b>24" x 24"</b>	0.744	VOLUME (CFM)	400	600	800	1000	1200	1400	
		STATIC PRESSURE (in. w.g.)	.014	.031	.055	.084	.121	.163	
		NOISE CRITERIA	<15	23	31	38	43	47	
		THROW (ft. at 50 / 100 / 150 fpm)	11 / 4 / 3	14 / 7 / 5	18 / 10 / 7	21 / 12 / 9	24 / 15 / 11	27 / 18 / 13	

NOTES: Volume (CFM): standard air density and isothermal conditions  
 Static Pressure: inches of water gauge  
 Noise Criteria: based on room attenuation of 10dB (sound power level re: 10-12 watts) with 1 diffuser operating  
 Throw: projection distance in feet from the diffuser discharge at which the maximum velocity has been reduced to the specified terminal velocity  
 Terminal Velocity: maximum velocity (Vt) in feet per minute, at the specified distance from the outlet face