

**USAIRE**

Performance Data

MODEL 5906**Model 5906****Steel 2 Cone Step Down Diffuser**

Panel Size	Neck Size	Area Ak	Inlet Velocity	400	500	600	700	800	900	1000	1200
24x24	6"	.196 .077	CFM	80	100	120	135	155	175	195	235
			Ps	.014	.021	.031	.039	.051	.065	.081	.118
			Throw	5	5	6	6	6	7	7	8
			NC	<15	<15	<15	<15	<15	16	18	23
24x24	8"	.349 .136	CFM	140	175	210	245	280	315	350	420
			Ps	.016	.025	.036	.048	.063	.080	.099	.142
			Throw	6	7	7	8	9	9	10	10
			NC	<15	<15	<15	<15	<15	18	21	26
24x24	10"	.545 .213	CFM	220	275	325	380	435	490	545	655
			Ps	.019	.030	.042	.057	.075	.096	.118	.171
			Throw	8	8	9	10	11	11	12	13
			NC	<15	<15	<15	<15	16	20	24	30
24x24	12"	.785 .307	CFM	315	395	470	55	63	725	785	940
			Ps	.021	.033	.046	.063	.083	.104	.129	.185
			Throw	9	10	11	12	13	14	14	16
			NC	<15	<15	<15	<15	19	23	27	33
24x24	14"	1.069 .418	CFM	430	535	640	750	855	960	1070	1285
			Ps	.026	.041	.058	.080	.104	.131	.163	.234
			Throw	11	12	13	14	15	16	17	18
			NC	<15	<15	<15	<15	18	23	28	35
24x24	15"	1.227 .479	CFM	490	615	735	860	980	1105	1225	1475
			Ps	.032	.051	.072	.099	.129	.164	.201	.292
			Throw	11	13	14	16	16	17	18	20
			NC	<15	<15	<15	16	22	27	31	39

Performance Notes

All Units have been tested in accordance with ANSI / ASHRAE 70-2006. Data in table is derived from such testing.

Ps - Static pressure required to obtain listed cfm, units of inches water gauge (in. wg.).

NC - Calculated noise criteria using 10 dB per octave room attenuation (dimensional).

Throw - Non-isothermal horizontal throw, in feet, for a terminal velocity of 50 fpm.

Ak - Area Factors

Inlet Velocity = fpm (Feet Per Minute)

For sizes not shown, refer to online tools **GRD Selection Program** performance calculator on Home Page