



Performance Data Directional 2-Way Diffuser

5402SD | A5402SD

Neck Velocity	200	300	400	500	600	700	800
Pk	0.018	0.04	0.071	0.111	0.16	0.218	0.278
Pt	0.02	0.046	0.081	0.127	0.182	0.248	0.314

Neck Size	AK								
6"x 6"	0.145	Total CFM	50	75	100	125	150	175	200
		CFM/Side	25	37	50	62	75	88	100
		Throw	3-6	6-12	9-18	13-22	16-24	18-28	20-30
		NC	-	-	-	-	21	26	31
9"x 9"	0.325	Total CFM	114	170	225	280	334	395	450
		CFM/Side	57	85	112	70	84	99	113
		Throw	5-9	8-14	12-19	16-24	20-28	24-32	28-38
		NC	-	-	-	20	25	32	36
12"x 12"	0.578	Total CFM	200	300	400	500	600	700	800
		CFM/Side	100	150	200	250	300	350	400
		Throw	6-12	10-18	15-23	18-28	22-32	26-36	30-42
		NC	-	-	-	25	30	35	38
15"x 15"	0.903	Total CFM	314	470	626	782	939	1095	1250
		CFM/Side	78	118	156	195	234	274	625
		Throw	8-18	12-20	18-27	22-32	26-36	30-42	34-46
		NC	-	-	22	27	32	37	
18"x 18"	1.301	Total CFM	450	675	900	1125	1350	1575	1800
		CFM/Side	225	338	450	563	675	788	900
		Throw	10-20	14-24	21-30	24-36	30-42	34-46	38-52
		NC	-	-	23	28	33	38	40

CFM Cubic Feet per Minute (air)

FPM Velocity of Air in Feet per Minute

Pv Velocity pressure (inches of water column)

Pt Total Pressure (inches of water column)

Ps Static Pressure = Pt-Pv (inches of water column)

Throw Horizontal throw in feet of Terminal Velocities of 150 fpm and 50 fpm with supply air 20 degrees F below room air temperature

NC Noise criterion, sound level pressure NC ratings are based on sound power level (Lw) Re: 10E-12 watts a 10DB room attenuation in all octave bands

Ak Area Factor