

PERFORMANCE DATA

MSRRCD - Supply

Size	Neck Velocity (fpm)	50	100	150	200	250	300	350	400	500	600
	Velocity Pressure (in. w.g.)	0.000	0.001	0.001	0.002	0.004	0.006	0.008	0.010	0.016	0.022
6 x 6	Flow Rate (cfm)	13	25	38	50	63	75	88	100	125	150
	Total Pressure (in. w.g.)	0.004	0.015	0.033	0.059	0.091	0.132	0.179	0.234	0.366	0.527
	Sound (NC)	-	-	-	-	-	-	16	20	26	31
	Throw (ft) 1 way	1-2-5	3-5-8	5-7-10	7-8-12	7-9-13	8-10-14	9-11-15	9-12-16	10-13-18	12-14-20
8 x 8	Flow Rate (cfm)	22	44	67	89	111	133	156	178	222	267
	Total Pressure (in. w.g.)	0.003	0.012	0.026	0.047	0.073	0.105	0.143	0.187	0.292	0.421
	Sound (NC)	-	-	-	-	-	-	19	23	29	34
	Throw (ft) 1 way	1-2-6	3-6-11	6-9-13	8-11-15	10-12-17	11-13-19	12-14-20	13-15-22	14-17-24	15-19-27
	Total Pressure (in. w.g.)	0.005	0.020	0.044	0.078	0.123	0.176	0.240	0.314	0.490	0.706
	Sound (NC)	-	-	-	-	17	22	27	32	39	44
	Throw (ft) 2 way	0-1-3	2-3-6	3-5-10	4-6-11	5-8-13	6-10-14	8-11-15	9-11-16	10-13-18	11-14-20
	Throw (ft) 3A way	0-1-2	1-2-6	2-4-8	4-6-10	5-7-11	6-8-12	6-9-13	7-10-14	9-11-15	10-12-17
Throw (ft) 3B way	0-1-2	1-2-3	2-3-5	2-3-7	3-4-8	3-5-8	4-6-9	4-7-10	6-8-11	7-8-12	
Throw (ft) 4 way	0-1-2	1-2-4	2-3-7	3-4-8	4-6-9	4-7-10	5-8-11	6-8-12	7-9-13	8-10-14	
9 x 9	Flow Rate (cfm)	28	56	84	113	141	169	197	225	281	338
	Total Pressure (in. w.g.)	0.003	0.011	0.024	0.043	0.067	0.096	0.131	0.171	0.267	0.384
	Sound (NC)	-	-	-	-	-	15	20	24	30	36
	Throw (ft) 1 way	1-2-6	3-6-12	6-9-15	8-12-17	10-14-19	12-15-21	13-16-23	14-17-24	16-19-27	17-21-30
	Total Pressure (in. w.g.)	0.004	0.017	0.039	0.069	0.107	0.154	0.210	0.274	0.429	0.618
	Sound (NC)	-	-	-	-	17	23	28	32	39	45
	Throw (ft) 2 way	0-1-4	2-4-8	4-6-11	5-8-13	7-10-14	8-11-16	9-12-17	11-13-18	12-14-20	13-16-22
	Throw (ft) 3A way	0-1-3	1-3-7	3-5-9	5-7-11	6-9-12	7-9-13	8-10-14	9-11-15	10-12-17	11-13-19
Throw (ft) 3B way	0-1-2	1-2-4	2-3-6	3-4-8	4-5-9	4-6-9	5-7-10	6-8-11	7-9-12	8-9-13	
Throw (ft) 4 way	0-1-3	1-3-5	3-4-8	3-5-9	4-6-10	5-8-11	6-9-12	7-9-13	8-10-14	9-11-16	
12 x 12	Flow Rate (cfm)	50	100	150	200	250	300	350	400	500	600
	Total Pressure (in. w.g.)	0.002	0.009	0.019	0.034	0.053	0.077	0.104	0.136	0.213	0.307
	Sound (NC)	-	-	-	-	-	19	23	27	33	39
	Throw (ft) 1 way	1-2-7	3-7-13	7-10-20	9-13-23	11-16-26	13-20-28	15-22-30	18-23-33	21-26-36	23-28-40
	Total Pressure (in. w.g.)	0.003	0.012	0.028	0.050	0.077	0.111	0.152	0.198	0.310	0.446
	Sound (NC)	-	-	-	-	19	25	30	34	41	47
	Throw (ft) 2 way	1-2-6	3-6-12	6-9-15	8-12-17	10-14-19	12-15-21	13-16-23	14-17-24	16-19-27	17-21-30
	Throw (ft) 3A way	1-1-6	3-6-10	6-9-12	8-10-14	9-11-16	10-12-18	11-13-19	12-14-20	13-16-23	14-18-25
Throw (ft) 3B way	1-1-3	2-3-7	3-5-9	5-7-10	6-8-11	7-9-12	8-10-13	8-10-14	9-11-16	10-12-18	
Throw (ft) 4 way	1-2-4	2-4-7	4-6-11	5-7-12	6-9-14	7-11-15	9-11-16	10-12-17	11-14-19	12-15-21	
15 x 15	Flow Rate (cfm)	78	156	234	313	391	469	547	625	781	938
	Total Pressure (in. w.g.)	0.002	0.007	0.016	0.029	0.045	0.064	0.088	0.115	0.179	0.258
	Sound (NC)	-	-	-	-	16	21	25	29	36	41
	Throw (ft) 1 way	1-2-7	3-7-14	7-11-21	9-14-28	12-18-32	14-21-35	17-25-38	19-28-41	24-32-45	28-35-50
	Total Pressure (in. w.g.)	0.002	0.010	0.022	0.038	0.060	0.087	0.118	0.154	0.241	0.346
	Sound (NC)	-	-	-	-	20	26	31	35	42	48
	Throw (ft) 2 way	1-3-9	5-9-15	9-13-19	12-15-22	14-17-24	15-19-26	16-20-28	18-22-30	20-24-34	22-26-37
	Throw (ft) 3A way	1-2-9	4-9-13	9-11-16	10-13-18	12-14-20	13-16-22	14-17-24	15-18-25	16-20-28	18-22-31
Throw (ft) 3B way	1-2-5	3-5-9	5-7-11	6-9-13	8-10-14	9-11-16	10-12-17	10-13-18	12-14-20	13-16-22	
Throw (ft) 4 way	1-2-5	3-5-9	5-7-13	6-9-15	8-12-17	9-13-19	11-14-20	12-15-22	14-17-24	15-19-26	
18 x 18	Flow Rate (cfm)	113	225	338	450	563	675	788	900	1125	1350
	Total Pressure (in. w.g.)	0.002	0.006	0.014	0.025	0.039	0.056	0.076	0.099	0.155	0.224
	Sound (NC)	-	-	-	-	17	23	27	31	38	43
	Throw (ft) 1 way	1-2-7	3-7-15	7-11-22	10-15-30	12-19-37	15-22-42	17-26-46	20-30-49	25-37-55	30-42-60
	Total Pressure (in. w.g.)	0.002	0.008	0.018	0.031	0.049	0.070	0.096	0.125	0.196	0.282
	Sound (NC)	-	-	-	-	21	27	32	36	43	49
	Throw (ft) 2 way	2-4-12	7-12-18	12-16-22	15-18-26	17-20-29	18-22-32	20-24-34	21-26-36	24-29-41	26-32-45
	Throw (ft) 3A way	2-4-11	7-11-15	11-13-19	12-15-22	14-17-24	15-19-26	16-20-29	18-22-31	20-24-34	22-26-37
Throw (ft) 3B way	1-3-7	4-7-11	7-9-13	9-11-15	10-12-17	11-13-19	12-14-20	12-15-22	14-17-24	15-19-27	
Throw (ft) 4 way	1-3-6	4-6-12	6-9-16	8-12-18	10-14-20	12-16-22	14-17-24	15-18-26	17-20-29	18-22-32	

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006, "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC values are based on room absorption of 10 dB re 10⁻¹² Watts and one diffuser.
7. Blanks "-" indicate an NC value less than 15.

