

# DIFFUSERS

## F Diffusers | Round Ceiling | Performance Data

### Performance Data

TMR, TMR-AA

F62

PERFORMANCE DATA

	Neck Velocity	400	500	600	700	800	900	1000	1200	1400
	Velocity Pressure	0.010	0.016	0.022	0.031	0.040	0.051	0.062	0.090	0.122
	Total Pressure, Pos. 1	0.029	0.045	0.065	0.089	0.116	0.146	0.181	0.260	0.354
	Total Pressure, Pos. 2	0.047	0.074	0.106	0.145	0.189	0.239	0.295	0.425	0.578
6" Dia.	Airflow, cfm	80	100	120	140	160	180	200	235	275
	NC, Pos.1	-	-	-	14	19	23	26	32	37
	NC, Pos.2	-	12	18	22	26	29	32	38	42
	Throw feet, Pos. 1	2-2-5	2-3-6	2-4-7	3-4-8	3-5-8	4-6-9	4-6-9	5-7-10	6-7-11
	Throw feet, Pos. 2	2-3-6	2-4-7	3-4-7	3-5-8	4-6-8	4-6-9	5-7-9	6-7-10	6-8-11
8" Dia.	Airflow, cfm	140	175	210	245	280	315	350	420	490
	NC, Pos.1	-	-	12	17	21	25	28	34	39
	NC, Pos.2	-	14	19	24	28	31	34	39	44
	Throw feet, Pos. 1	2-3-7	3-4-8	3-5-9	4-6-10	4-7-11	5-7-11	5-8-12	7-9-13	8-10-14
	Throw feet, Pos. 2	3-4-8	3-5-9	4-6-9	4-7-10	5-8-11	6-8-12	6-9-12	8-9-13	8-10-14
10" Dia.	Airflow, cfm	218	273	327	382	436	491	545	654	763
	NC, Pos.1	-	-	14	19	23	27	30	36	41
	NC, Pos.2	-	15	20	25	29	32	35	41	45
	Throw feet, Pos. 1	3-4-8	3-5-10	4-6-12	5-7-12	5-8-13	6-9-14	7-10-15	8-12-16	10-12-18
	Throw feet, Pos. 2	3-5-9	4-6-11	5-7-12	5-8-13	6-9-14	7-10-14	8-11-15	9-12-17	10-13-18
12" Dia.	Airflow, cfm	315	390	470	550	630	705	785	940	1100
	NC, Pos.1	-	-	16	20	25	29	32	38	43
	NC, Pos.2	-	16	21	26	30	33	36	42	46
	Throw feet, Pos. 1	3-5-10	4-6-12	5-7-14	6-9-15	7-10-16	7-11-17	8-12-18	10-14-20	11-15-21
	Throw feet, Pos. 2	4-6-11	5-7-13	6-8-14	7-10-15	8-11-16	8-12-17	9-13-18	11-14-20	12-15-22
14" Dia.	Airflow, cfm	425	530	635	745	850	955	1060	1270	1490
	NC, Pos.1	-	11	17	22	26	30	33	39	44
	NC, Pos.2	11	17	22	27	31	34	37	42	47
	Throw feet, Pos. 1	4-6-11	5-7-14	6-8-16	7-10-17	8-11-19	8-13-20	9-14-21	11-16-23	13-17-25
	Throw feet, Pos. 2	4-7-13	5-8-15	7-10-16	8-11-18	9-13-19	10-14-20	11-15-21	13-16-23	14-18-25
16" Dia.	Airflow, cfm	560	700	840	980	1120	1260	1400	1680	1960
	NC, Pos.1	-	12	18	23	27	31	34	40	45
	NC, Pos.2	11	18	23	28	31	35	38	43	48
	Throw feet, Pos. 1	4-7-13	5-8-16	7-10-18	8-11-20	9-13-21	10-15-23	11-16-24	13-18-26	15-20-28
	Throw feet, Pos. 2	5-8-15	6-9-17	8-11-19	9-13-20	10-15-22	11-16-23	13-17-24	15-19-27	17-20-29
18" Dia.	Airflow, cfm	710	885	1060	1240	1420	1590	1770	2120	2480
	NC, Pos.1	-	13	19	24	28	32	35	41	46
	NC, Pos.2	12	18	24	28	32	36	39	44	48
	Throw feet, Pos. 1	5-7-15	6-9-18	7-11-21	9-13-22	10-15-24	11-17-25	12-18-27	15-21-29	17-22-32
	Throw feet, Pos. 2	6-8-17	7-11-19	8-13-21	10-15-23	11-17-25	13-18-26	14-19-27	17-21-30	19-23-32
20" Dia.	Airflow, cfm	875	1100	1310	1530	1750	1970	2190	2610	3060
	NC, Pos.1	-	14	20	25	29	33	36	42	47
	NC, Pos.2	13	19	24	29	33	36	39	45	49
	Throw feet, Pos. 1	5-8-16	7-10-21	8-12-23	10-14-25	11-16-27	12-18-28	14-20-30	16-23-33	19-25-35
	Throw feet, Pos. 2	6-9-19	8-12-22	9-14-24	11-16-25	13-19-27	14-20-29	16-22-30	19-24-33	21-25-36
24" Dia.	Airflow, cfm	1260	1570	1880	2200	2510	2820	3140	3770	4400
	NC, Pos.1	-	16	22	27	31	35	38	44	49
	NC, Pos.2	14	20	25	30	34	37	40	46	50
	Throw feet, Pos. 1	7-10-20	8-12-24	10-15-28	11-17-30	13-20-32	15-22-34	16-24-36	20-28-39	23-30-42
	Throw feet, Pos. 2	8-11-23	9-14-26	11-17-28	13-20-31	15-23-33	17-24-35	19-26-36	23-28-40	25-31-43
30" Dia.	Airflow, cfm	1960	2450	2940	3430	3920	4410	4900	5880	6860
	NC, Pos.1	-	18	23	28	33	37	40	46	51
	NC, Pos.2	15	21	27	31	35	38	41	47	51
	Throw feet, Pos. 1	8-12-24	10-15-31	12-18-35	14-21-37	16-24-40	18-27-42	20-31-45	24-35-49	28-37-53
	Throw feet, Pos. 2	9-14-28	12-18-32	14-21-35	16-25-38	19-28-41	21-31-43	23-32-46	28-35-50	31-38-54
36" Dia.	Airflow, cfm	2820	3520	4230	4930	5630	6340	7040	8450	9850
	NC, Pos.1	12	19	25	30	34	38	41	47	52
	NC, Pos.2	16	22	28	32	36	39	43	48	52
	Throw feet, Pos. 1	10-15-29	12-18-37	15-22-41	17-26-45	19-29-48	22-33-51	24-37-53	29-41-59	34-45-63
	Throw feet, Pos. 2	11-17-34	14-21-39	17-25-42	20-29-46	22-34-49	25-37-52	28-39-55	34-42-60	37-46-65

- All pressures given are in inches of water.
- Throw values given are for terminal velocities of 150, 100 and 50 fpm and for isothermal conditions.
- To obtain static pressure, subtract the velocity pressure from the total pressure.
- If the diffuser is mounted on an exposed duct, the throw values are 70% of those listed in the table and will project downward.
- Each NC value represents the noise criteria curve which will not be exceeded by the sound pressure in any of the octave bands, 2 through 7, with a room absorption of 10 dB, re 10<sup>-12</sup> watts.
- Dash (-) in space denotes an NC value of less than 10.
- Diffusers are shipped in Position 2 (cones down).
- Data obtained from tests conducted in accordance with ANSI / ASHRAE Standard 70-2006. Actual performance, with flexible duct inlet, may vary in the field. See the section, Engineering Guidelines, for additional information.
- For an explanation of catalog throw data, see the Engineering Guidelines section of this catalog.

