

## PERFORMANCE DATA - ROUND SINGLE DEFLECTION GRILLE - MODEL ARSD

MODEL	Duct Velocity Velocity Pressure	400	600	800	1000	1200	1400	1600
		0.010	0.022	0.040	0.062	0.090	0.122	0.160
ARSD-06	CFM	79	118	157	196	236	275	314
	S.P.	0.021	0.047	0.073	0.133	0.185	0.254	0.322
	NC	<15	<15	15	23	29	35	40
	Throw	4-8-15	6-12-21	8-14-24	10-16-28	13-21-30	15-22-32	17-24-34
ARSD-08	CFM	140	209	279	349	419	489	559
	S.P.	0.016	0.038	0.067	0.105	0.150	0.205	0.266
	NC	<15	<15	<15	21	27	33	38
	Throw	5-10-20	8-16-27	11-21-32	14-25-36	17-28-39	20-30-41	21-32-45
ARSD-10	CFM	218	327	436	545	655	764	873
	S.P.	0.014	0.033	0.059	0.092	0.131	0.180	0.234
	NC	<15	<15	<15	20	26	32	36
	Throw	6-12-24	9-17-32	14-26-37	17-31-45	21-34-47	25-37-52	29-40-56
ARSD-12	CFM	314	471	628	786	943	1100	1257
	S.P.	0.014	0.031	0.053	0.085	0.120	0.165	0.213
	NC	<15	<15	<15	19	25	31	35
	Throw	7-15-30	12-24-40	16-33-47	20-37-53	25-41-59	29-45-65	33-48-74
ARSD-14	CFM	428	641	855	1069	1283	1497	1711
	S.P.	0.013	0.029	0.050	0.077	0.114	0.154	0.201
	NC	<15	<15	<15	19	25	31	35
	Throw	8-18-37	14-28-47	18-38-55	23-44-61	30-48-70	34-52-74	38-56-83
ARSD-16	CFM	559	838	1117	1396	1676	1955	2234
	S.P.	0.013	0.027	0.048	0.076	0.108	0.147	0.191
	NC	<15	<15	<15	19	25	31	35
	Throw	10-20-40	15-30-53	22-44-65	28-50-72	34-54-80	40-60-85	45-64-90
ARSD-18	CFM	707	1060	1414	1767	2121	2474	2828
	S.P.	0.012	0.027	0.046	0.072	0.104	0.142	0.185
	NC	<15	<15	<15	20	26	32	36
	Throw	11-22-44	18-36-61	25-50-72	31-57-80	40-63-89	45-67-95	50-71-101
ARSD-20	CFM	873	1309	1746	2182	2618	3055	3491
	S.P.	0.012	0.026	0.045	0.070	0.101	0.137	0.177
	NC	<15	<15	<15	20	26	32	36
	Throw	12-24-49	20-40-68	27-53-80	35-63-89	44-68-99	51-74-105	56-78-112
ARSD-22	CFM	1056	1584	2112	2640	3168	3696	4224
	S.P.	0.011	0.025	0.043	0.068	0.097	0.133	0.173
	NC	<15	<15	<15	21	27	33	37
	Throw	13-27-54	22-44-74	30-57-85	37-68-98	47-76-110	57-85-120	60-87-123
ARSD-24	CFM	1257	1885	2514	3142	3770	4399	5027
	S.P.	0.011	0.024	0.042	0.068	0.096	0.130	0.170
	NC	<15	<15	15	22	29	34	38
	Throw	14-29-60	24-48-81	33-66-95	41-75-106	50-84-116	58-88-124	66-95-130

Performance data based on ASHRAE 70-91

**Throw:** Distance in feet from the nozzle discharge at which the maximum velocity has been reduced to specified terminal velocity [Vt].

**Terminal Velocity:** Maximum velocity [Vt] in feet per minute at the specified distance from the outlet face. Throw is listed at 200 fpm, 100 fpm and 50 fpm respectively.

**Airflow CFM:** Standard air density and isothermal conditions.

**Static Pressure:** Inches of water gauge.

**Noise Criteria:** Noise criteria [NC] curve which is not exceeded with a room attenuation of 10db and based on sound power level re:10-12 watts.

Performance values for various deflection angles

Deflection Angle	0°	10°	20°	30°	40°
Total Pressure [times]	1.0	1.2	1.4	1.9	2.4
Throw [times]	1.0	0.9	0.8	0.7	0.6
Noise Criteria - NC [add]	+0	+3	+7	+11	+16