AIRCONCEPTS

Performance Data Sheet

Round Double Deflection

MODEL	Duct Velocity / Velocity Pressure	400 0.010	600 0.022	800 0.040	1000 0.062	1200 0.090	1400 0.122	1600 0.160
RDD-06	CFM	79	118	157	196	236	275	314
	Static Pressure	0.023	0.052	0.081	0.148	0.205	0.282	0.358
	NC	<15	<15	18	26	32	38	43
	Projection	6-12-24	8-16-32	10-18-30	12-20-36	16-26-38	20-28-42	22-30-44
RDD-08	CFM	140	209	279	349	419	489	559
	Static Pressure	0.018	0.042	0.074	0.117	0.167	0.228	0.295
	NC	<15	<15	16	24	30	36	41
	Projection	7-14-28	10-20-34	14-28-42	18-32-46	22-36-50	26-38-52	26-42-58
RDD-10	CFM	218	327	436	545	655	764	873
	Static Pressure	0.016	0.037	0.065	0.102	0.146	0.200	0.260
	NC	<15	<15	15	23	29	35	39
	Projection	8-16-30	10-20-40	18-34-48	22-40-58	26-44-60	32-48-66	38-52-72
RDD-12	CFM	314	471	628	786	943	1100	1257
	Static Pressure	0.015	0.034	0.059	0.094	0.133	0.183	0.237
	NC	<15	<15	15	22	28	34	38
	Projection	9-18-36	15-30-52	20-40-60	26-48-68	32-52-76	36-58-84	42-62-96
RDD-14	CFM	428	641	855	1069	1283	1497	1711
	Static Pressure	0.014	0.032	0.056	0.085	0.127	0.171	0.223
	NC	<15	<15	15	22	28	34	38
	Projection	10-20-40	18-36-60	22-44-70	30-56-78	38-62-90	44-66-96	48-72-106
RDD-16	CFM	559	838	1117	1396	1676	1955	2234
	Static Pressure	0.014	0.030	0.053	0.084	0.120	0.163	0.212
	NC	<15	<15	15	22	28	34	38
	Projection	12-24-48	18-36-68	28-56-84	36-65-92	44-70-104	52-78-110	58-82-116
RDD-18	CFM	707	1060	1414	1767	2121	2474	2828
	Static Pressure	0.013	0.030	0.051	0.080	0.115	0.158	0.205
	NC	<15	<15	16	23	29	35	39
	Projection	14-28-56	22-44-78	32-64-92	40-74-104	52-80-114	58-86-122	65-92-130
RDD-20	CFM	873	1309	1746	2182	2618	3055	3491
	Static Pressure	0.013	0.029	0.050	0.078	0.112	0.152	0.197
	NC	<15	<15	16	23	29	35	39
	Projection	16-32-64	26-52-88	35-68-104	45-80-114	56-88-128	66-96-136	72-100-145
RDD-22	CFM	1056	1584	2112	2640	3168	3696	4224
	Static Pressure	0.012	0.028	0.048	0.076	0.108	0.148	0.192
	NC	<15	<15	17	24	30	36	40
	Projection	16-34-68	28-56-96	38-74-110	48-88-126	60-98-142	74-110-156	78-112-160
RDD-24	CFM	1257	1885	2514	3142	3770	4399	5027
	Static Pressure	0.012	0.027	0.047	0.075	0.107	0.144	0.189
	NC	<15	<15	18	25	32	37	41
	Projection	18-36-72	30-60-105	42-86-122	52-96-136	65-108-150	75-114-160	84-122-168

Performance data based on ASHRAE 70-91

Projection: Projection distance [THROW] 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] 200 fpm, 100fpm and 50 fpm respectively.

Airflow CFM: Standard air density and isothermal conditions.

Static Pressure: Inches of water gauge required.

Noise Criteria: Noise criteria [NC] curve which is not exceeded with a Room Attnuation 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 Projection [times]	1.0	0.9	0.8	0.7	0.6
Noise Criteria – NC [add]	+0	+3	+7	+11	+16