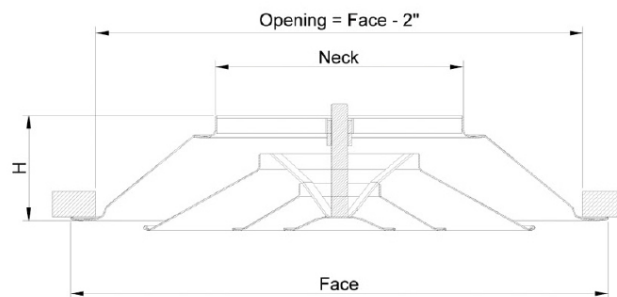
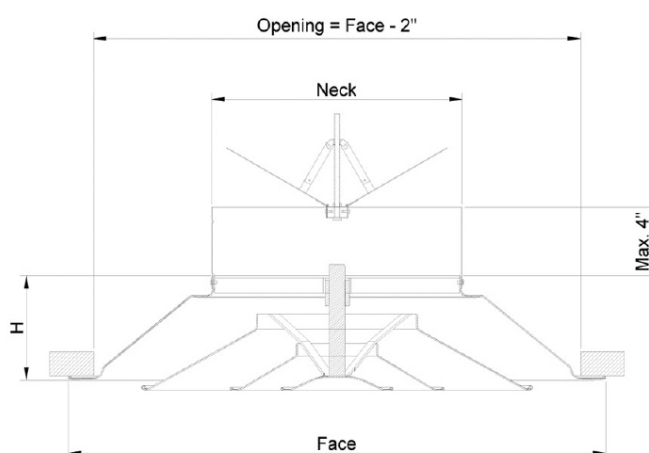
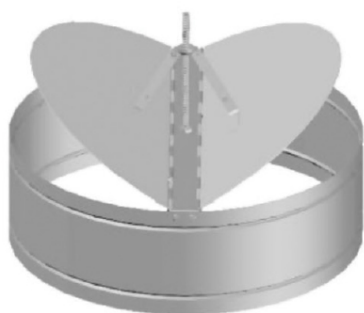


Round Ceiling Diffuser (RCD)

مصنع نظام التبريد للصناعة



Round Ceiling Diffuser Return (RCDR)



Round Ceiling Diffuser Supply (RCDS)

Product Description

Aluminum alloy constructed round ceiling diffuser can be used as a supply or exhaust in cooling, heating or ventilation application, with fully adjustable cores to provide horizontal or vertical air pattern, removable inner core permit easy installation and access to duct.

Butterfly damper used for supply and its D shaped blade can adjust the air volume by regulating the inner screw with screw driver.

Standard Sizes						
Size	Neck		Face		Face	
	Inch	(mm)	Inch	(mm)	Inch	(mm)
ø6"	5 5/8	144	12 3/4	325	2 3/8	60
ø8"	7 1/2	190	16 7/8	430	2 3/4	70
ø10"	9 1/2	240	20 7/8	530	3 1/2	90
ø12"	11 5/8	294	25 1/4	640	4 1/2	115
ø14"	13 1/2	344	28 3/8	720	4 1/2	115
ø16"	15 5/8	396	31 1/8	790	5 1/2	140
ø18"	17 1/2	444	34 3/8	873	6	153
						CFM Range
						60-315
						105-560
						165-870
						235-1255
						320-1710
						420-2240
						530-2830

Round Ceiling Diffuser (RCD) مصنع نظام التبريد للصناعة



Round Ceiling Diffuser Supply

RCDS (Performance Data)

NECK SIZE (inches)	NECK AREA (Sq. Ft.)	NECK VELOCITY (FPM)		300	400	500	600	700	800	900	1000	1100	1200	1400	1600
		Velocity Pressure		0.006	0.010	0.016	0.023	0.031	0.040	0.051	0.063	0.075	0.090	0.122	0.160
6 Dia.	0.196	Air Flow. CFM		60	80	100	120	135	155	175	195	215	235	275	315
		Total Pressure	H	0.024	0.041	0.065	0.093	0.126	0.162	0.207	0.255	0.304	0.365	0.494	0.648
			V	0.035	0.058	0.093	0.133	0.180	0.232	0.296	0.365	0.435	0.522	0.708	0.928
		Radius of Diff., Feet		2-3	2-4	3-5	3-5	4-6	4-6	5-7	5-7	5-7	6-8	6-8	7-9
		NC		<20	<20	<20	<20	<20	23	26	30	33	35	40	44
8 Dia.	0.349	Air Flow. CFM		105	140	175	210	245	280	315	350	385	420	490	560
		Total Pressure	H	0.017	0.029	0.046	0.066	0.088	0.114	0.145	0.180	0.214	0.257	0.348	0.456
			V	0.026	0.044	0.070	0.101	0.136	0.176	0.224	0.277	0.330	0.396	0.537	0.704
		Radius of Diff., Feet		2-4	3-5	4-6	4-7	5-7	6-8	6-8	7-9	7-10	7-10	8-11	9-12
		NC		<20	<20	<20	21	26	31	34	37	40	44	48	>50
10 Dia.	0.545	Air Flow. CFM		165	220	275	325	380	435	490	545	600	655	765	870
		Total Pressure	H	0.017	0.028	0.044	0.063	0.085	0.110	0.140	0.173	0.206	0.248	0.335	0.44
			V	0.025	0.041	0.066	0.095	0.128	0.165	0.210	0.260	0.309	0.371	0.503	0.659
		Radius of Diff., Feet		3-6	5-7	5-8	6-9	7-9	8-10	8-11	9-12	9-12	10-13	11-14	12-15
		NC		<20	<20	<20	<20	21	26	30	33	36	39	44	48
12 Dia.	0.785	Air Flow. CFM		235	315	395	470	550	630	705	785	865	940	1100	1255
		Total Pressure	H	0.015	0.025	0.040	0.057	0.077	0.099	0.126	0.156	0.185	0.222	0.301	0.395
			V	0.022	0.036	0.058	0.083	0.112	0.144	0.184	0.227	0.270	0.324	0.439	0.576
		Radius of Diff., Feet		4-6	5-7	6-9	7-10	8-11	9-12	10-13	10-14	11-14	11-15	13-16	14-18
		NC		<20	<20	<20	<20	22	26	30	33	36	39	45	49
14 Dia.	1.07	Air Flow. CFM		320	430	535	640	750	855	965	1070	1175	1285	1500	1710
		Total Pressure	H	0.014	0.024	0.038	0.055	0.074	0.096	0.122	0.151	0.180	0.216	0.293	0.384
			V	0.022	0.036	0.058	0.083	0.112	0.144	0.184	0.227	0.270	0.324	0.439	0.576
		Radius of Diff., Feet		4-7	6-8	7-10	8-11	9-12	10-13	11-15	12-16	13-16	13-17	15-19	16-23
		NC		<20	<20	<20	23	28	32	36	40	43	46	>50	>50
16 Dia.	1.40	Air Flow. CFM		420	560	700	840	980	1120	1260	1400	1540	1680	1960	2240
		Total Pressure	H	0.014	0.023	0.037	0.053	0.071	0.092	0.117	0.145	0.173	0.207	0.281	0.368
			V	0.021	0.035	0.056	0.080	0.108	0.139	0.177	0.219	0.260	0.312	0.423	0.555
		Radius of Diff., Feet		5-7	7-10	8-12	10-13	11-15	12-16	13-17	14-18	15-19	15-20	17-21	19-23
		NC		<20	<20	<20	22	27	31	35	39	42	44	49	>50
18 Dia.	1.77	Air Flow. CFM		530	710	885	1060	1240	1415	1595	1770	1945	2125	2480	2830
		Total Pressure	H	0.014	0.022	0.036	0.051	0.069	0.089	0.114	0.140	0.167	0.201	0.272	0.357
			V	0.022	0.037	0.059	0.084	0.114	0.147	0.187	0.231	0.275	0.330	0.448	0.587
		Radius of Diff., Feet		6-8	7-11	9-12	10-14	12-16	13-17	14-19	16-20	16-21	18-22	19-24	21-25
		NC		<20	<20	<20	21	26	30	34	37	40	43	48	>50
20 Dia.	2.18	Air Flow. CFM		655	870	1090	1310	1525	1745	1960	2180	2400	2615	3050	3490
		Total Pressure	H	0.012	0.021	0.033	0.047	0.064	0.082	0.105	0.129	0.154	0.185	0.250	0.328
			V	0.023	0.039	0.062	0.090	0.121	0.156	0.199	0.246	0.293	0.351	0.476	0.624
		Radius of Diff., Feet		6-9	8-12	10-14	12-16	14-17	15-19	16-21	17-22	18-23	19-24	21-26	23-28
		NC		<20	<20	<20	21	26	30	34	38	40	43	48	>50

- NC Data based upon 10 dB room attenuation
- All pressure are in inches of water