



Makkah
For Air Outlets

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مکة لمخاریج الهواء

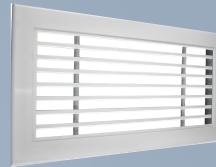
منذ عام ٢٠١٦



SQUARE CEILING
DIFFUSER



DOUBLE DEFLECTION
GRILLE



LINEAR BAR GRILL



VOLUME DAMPER



slot

نبذة عن نشاط الشركة

شركة مکة لمخاریج الهواء هي شركه رائده في تصنيع جميع مخاریج ومجاری الهواء وقامـت بالعديد من المشروعات المتميـزة و التي نفذـت أعلى مستويـات الجودـه وتعـمل الشـركـة عـلـى تـطـوـير منـتجـاتـها وتحـديـث قـطـاعـتها لـتـسـتـطـيـع الـمنـافـسـه فـي السـوقـ المحليـ والـدولـيـ ويعـدـ المـصـنـعـ أحدـ المصـانـعـ حـدـيثـةـ النـشـاءـ التـيـ تـعـملـ عـلـىـ أـخـذـ تـدـابـيرـ الـأـمـنـ الصـنـاعـيـ وـالـتـقـنـيـةـ فـيـ الإـعـتـبـارـ حـفـاظـاـ عـلـىـ سـلـامـةـ العـمـالـ وـالـفـنـيـينـ

شركـاءـ النـجـاحـ

المـيرـيلـانـدـ بنـكـ
جـامـعـةـ الدـولـ الـعـرـبـيـهـ QNBـ بنـكـ
كارـفـورـ مـيرـاجـ مـولـ

الـجـامـعـةـ الـبـرـيطـانـيـةـ
المـدـرـسـةـ الـأـلـمـانـيـةـ
شـرـكـةـ اـيـنـيـ لـلـغـازـ
شـرـكـةـ مـيرـسـكـ لـلـشـحـنـ

الـصـالـةـ المـغـطـاهـ بـالـسـادـسـ مـنـ أـكـتوـبـرـ
مـجمـعـ مـولـاتـ غـربـ الشـروـقـ
مـجمـعـ الـنـيـابـهـ الإـدارـيـهـ بـالـسـادـسـ مـنـ أـكـتوـبـرـ
مـصـنـعـ اـفـرـوسـ فـارـمـاـ لـلـأـدوـيـهـ

٦شارع عادل والي الكيلو ٢٦ طريق مصر اسكندرية الصحراوي المنطقة الصناعية ابو رواش

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Our Products

Selection Guide

1-Square ceiling diffuser

2-Round ceiling diffuser

3-Swirl diffuser

4-Perforated ceiling diffuser

5-Linear slot diffuser

6-Linear ceiling diffuser

7-Linear bar grill

8-Register

9-Floor & Perfprated floor grill

10-Tranfer grill

11-Access panel

12-Louver

13-Sand trap louver

14-Jet nozzle

15-Ball jet nozzle

16-Drum jet nozzle

17-Disc valve

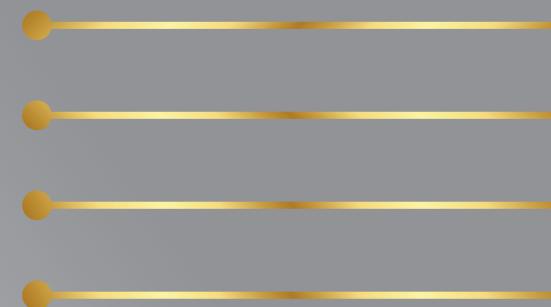
18-Non return dumper (shutter)

19-Volume damper

20-Fire damper

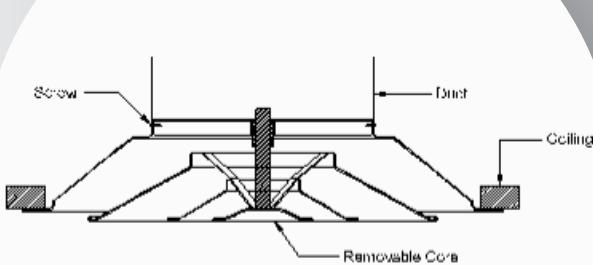
21-Smoke damper

22-Duct access door

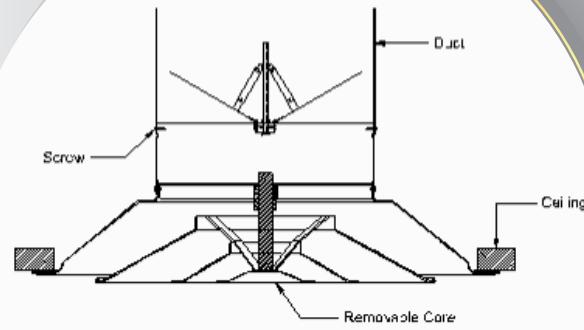


ROUND CEILING DIFFUSER (RCD)

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 cool-ing, heating or ventilation application, with fully adjustable cores to provide horizontal or verti-cal 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 regulat-ing the inner screw with screw driver.

Standard Sizes

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

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	
8 Dia.	0.349	NC	<20	<20	<20	<20	<20	23	26	30	33	35	40	44	44
		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	
10 Dia.	0.545	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	
		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
12 Dia.	0.785	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	
		Air Flow. CFM	235	315	395	470	550	630	705	785	865	940	1100	1255	
14 Dia.	1.07	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	
16 Dia.	1.40	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	
18 Dia.	1.77	NC	<20	<20	<20	23	28	32	36	40	43	46	>50	>50	
		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	
20 Dia.	2.18	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	
		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
18 Dia.	1.77	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	
		Air Flow. CFM	655	870	1090	1310	1525	1745	1960	2180	2400	2615	3050	3490	
20 Dia.	2.18	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 10dB room attenuation
All pressure are in inches of water

Round Ceiling Diffuser Return RCDR (Performance Data)

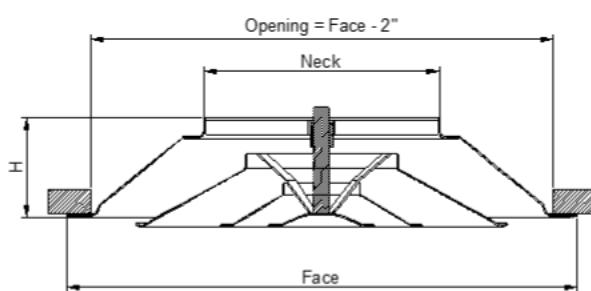
NECK SIZE (inches)	NECK AREA (Sq. Ft.)	NECK VELOCITY (FPM)	300	400	500	600	700	800	900	1000	1100	1200	1400	1600
		Velocity Pressure (in. w.g.)	0.006	0.010	0.016	0.023	0.031	0.040	0.051	0.063	0.075	0.090	0.122	0.160
6 Dia.	0.196	CFM	60	80	100	120	135	155	175	195	215	235	275	315
		Negative SP (in. w.g.)	0.022	0.037	0.059	0.084	0.114	0.146	0.187	0.230	0.275	0.330	0.446	0.586
		NC	<20	<20	<20	<20	21	25	28	32	34	37	42	46
8 Dia.	0.349	CFM	105	140	175	210	245	280	315	350	385	420	490	560
		Negative SP (in. w.g.)	0.013	0.023	0.037	0.052	0.068	0.089	0.113	0.140	0.167	0.200	0.271	0.355
		NC	<20	<20	<20	23	28	32	34	37	41	46	>50	>50
10 Dia.	0.545	CFM	165	220	275	325	380	435	490	545	600	655	765	870
		Negative SP (in. w.g.)	0.013	0.022	0.034	0.048	0.065	0.084	0.107	0.132	0.157	0.190	0.256	0.336
		NC	<20	<20	<20	<20	23	28	32	35	38	41	46	50
12 Dia.	0.785	CFM	235	315	395	470	550	630	705	785	865	940	1100	1255
		Negative SP (in. w.g.)	0.011	0.018	0.029	0.041	0.055	0.071	0.090	0.112	0.132	0.158	0.215	0.282
		NC	<20	<20	<20	<20	24	28	32	35	38	41	47	>50
14 Dia.	1.07	CFM	320	430	535	640	750	855	965	1070	1175	1285	1500	1710
		Negative SP (in. w.g.)	0.010	0.017	0.026	0.038	0.052	0.067	0.085	0.106	0.126	0.151	0.205	0.269
		NC	<20	<20	20	25	30	34	38	42	45	48	>50	>50
16 Dia.	1.40	CFM	420	560	700	840	980	1120	1260	1400	1540	1680	1960	2240
		Negative SP (in. w.g.)	0.010	0.016	0.025	0.036	0.048	0.062	0.079	0.098	0.118	0.140	0.191	0.25
		NC	<20	<20	<20	24	29	33	37	41	44	46	>50	>50
18 Dia.	1.77	CFM	530	710	885	1060	1240	1415	1595	1770	1945	2125	2480	2830
		Negative SP (in. w.g.)	0.010	0.014	0.024	0.034	0.046	0.059	0.076	0.092	0.110	0.133	0.180	0.236
		NC	<20	<20	<20	23	28	32	36	39	43	45	50	>50
20 Dia.	2.18	CFM	655	870	1090	1310	1525	1745	1960	2180	2400	2615	3050	3490
		Negative SP (in. w.g.)	0.007	0.013	0.020	0.029	0.040	0.050	0.065	0.079	0.095	0.114	0.154	0.202
		NC	<20	<20	<20	23	28	32	36	40	43	45	50	>50

-NC Data based upon 10dB room attenuation

-All pressure are in inches of water

Installation

Round ceiling diffuser return connected with duct by screw



Round ceiling diffuser supply connected with duct by screw

