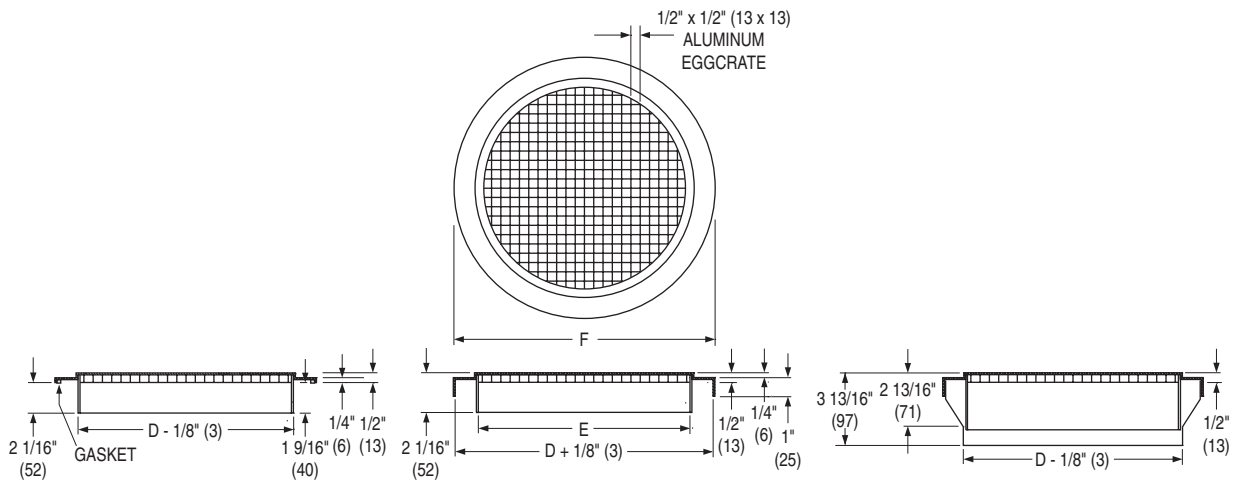




ROUND EGGRATE GRILLES **ALUMINUM • ROUND NECK** **MODEL: RECG**



☐ SM Frame
(Surface Mount)

☐ RD Frame
(Exposed Round Duct)

☐ RR Frame
(Round Reducer)

Nominal Size	SM Frame		RD Frame †			RR Frame	
	D	F	D	E	F	D	F
6 (152)	6 (152)	8 1/4 (210)	8 (203)	6 (152)	8 1/4 (210)	6 (152)	8 1/4 (210)
8 (203)	8 (203)	10 1/4 (260)	10 (254)	8 (203)	10 1/4 (260)	8 (203)	10 1/4 (260)
10 (254)	10 (254)	12 1/4 (311)	12 (305)	10 (254)	12 1/4 (311)	10 (254)	12 1/4 (311)
12 (305)	12 (305)	14 1/4 (362)	14 (356)	12 (305)	14 1/4 (362)	12 (305)	14 1/4 (362)
14 (356)	14 (356)	16 1/4 (413)	16 (406)	14 (356)	16 1/4 (413)	14 (356)	16 1/4 (413)
16 (406)	16 (406)	18 1/4 (464)	18 (457)	16 (406)	18 1/4 (464)	16 (406)	18 1/4 (464)
18 (457)	18 (457)	20 1/4 (514)	20 (508)	18 (457)	20 1/4 (514)	18 (457)	20 1/4 (514)
20 (508)	20 (508)	22 1/4 (565)	22 (559)	20 (508)	22 1/4 (565)	20 (508)	22 1/4 (565)
22 (559)	22 (559)	24 1/4 (616)	24 (610)	22 (559)	24 1/4 (616)	22 (559)	24 1/4 (616)
24 (610)	24 (610)	26 1/4 (667)	26 (660)	24 (610)	26 1/4 (667)	24 (610)	26 1/4 (667)
30 (762)	30 (762)	32 1/4 (819)	32 (813)	30 (762)	32 1/4 (819)	—	—

Inches are measured to the nearest 1/16" (2).

Note:

† The RD frame model nominal size is 2" (51) smaller than the duct size it mounts to.

Example: A size 10 mounts on a 12" (305) duct.

DESCRIPTION:

1. Material: Heavy gauge aluminum construction with 1/2" x 1/2" (13 x 13) aluminum grid core is standard.
2. Model RECG Round Eggcrate Grille has been designed for use in commercial and industrial applications. It has a low air resistance and low noise levels. The RECG can be used for exhaust, return or supply applications. When the RECG is used as a supply device, the air exits as a column of air and has a natural expansion of 22° included angle. This grille can be installed in a ceiling, on a wall or mounted on exposed ductwork.
3. Frame Type SM –
Concealed mounting system. Mounting screws are included.
Frame Type RD –
Frame slides cleanly over end of exposed duct work. Mounting screws are included.
Frame Type RR –
Frame slides cleanly into end of exposed duct work. Mounting screws are included.
4. Standard finish is AW Appliance White.

OPTIONS:

Frame:

- ☐ SM Surface Mount (Wall/Ceiling)
- ☐ RD Exposed Round Duct
- ☐ RR Round Reducer

Finish:

- ☐ SP Special.
- Specify: _____.

SCHEDULE TYPE

PROJECT

ENGINEER

CONTRACTOR

Dimensions are in inches (mm).

DATE

B SERIES

SUPERSEDES

DRAWING NO.

1 - 31 - 19

RECG

11 - 29 - 18

RECG-1

PERFORMANCE DATA: MODEL RECG

Nominal Size	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
6	Airflow, CFM	79	118	157	196	236	275	314
	Static Pressure [exhaust]	-0.040	-0.091	-0.162	-0.255	-0.363	-0.500	-0.652
	Noise Criteria [exhaust]	<15	22	32	39	45	50	54
	Static Pressure [supply]	0.015	0.034	0.053	0.096	0.133	0.183	0.233
	Noise Criteria [supply]	<15	<15	21	29	35	41	46
	Throw [supply]	4-8-15	6-12-21	8-14-24	10-16-28	13-21-30	15-22-32	17-24-34
8	Airflow, CFM	140	209	279	349	419	489	559
	Static Pressure [exhaust]	-0.036	-0.080	-0.142	-0.223	-0.320	-0.432	-0.568
	Noise Criteria [exhaust]	<15	22	31	38	44	49	53
	Static Pressure [supply]	0.012	0.027	0.048	0.076	0.109	0.148	0.192
	Noise Criteria [supply]	<15	<15	19	27	33	39	44
	Throw [supply]	5-10-20	8-16-27	11-21-32	14-25-36	17-28-39	20-30-41	21-32-45
10	Airflow, CFM	218	327	436	545	655	764	873
	Static Pressure [exhaust]	-0.033	-0.073	-0.130	-0.203	-0.293	-0.397	-0.522
	Noise Criteria [exhaust]	<15	22	31	38	44	48	52
	Static Pressure [supply]	0.010	0.024	0.042	0.066	0.095	0.130	0.169
	Noise Criteria [supply]	<15	<15	18	26	32	38	42
	Throw [supply]	6-12-24	9-17-32	14-26-37	17-31-45	21-34-47	25-37-52	29-40-56
12	Airflow, CFM	314	471	628	786	943	1100	1257
	Static Pressure [exhaust]	-0.031	-0.070	-0.123	-0.194	-0.278	-0.384	-0.495
	Noise Criteria [exhaust]	<15	22	32	38	45	49	53
	Static Pressure [supply]	0.010	0.022	0.038	0.061	0.086	0.119	0.154
	Noise Criteria [supply]	<15	<15	18	25	31	37	41
	Throw [supply]	7-15-30	12-24-40	16-33-47	20-37-53	25-41-59	29-45-65	33-48-74
14	Airflow, CFM	428	641	855	1069	1283	1497	1711
	Static Pressure [exhaust]	-0.030	-0.067	-0.119	-0.186	-0.267	-0.365	-0.475
	Noise Criteria [exhaust]	<15	23	32	39	45	50	54
	Static Pressure [supply]	0.009	0.021	0.036	0.055	0.083	0.111	0.145
	Noise Criteria [supply]	<15	<15	18	25	31	37	41
	Throw [supply]	8-18-37	14-28-47	18-38-55	23-44-61	30-48-70	34-52-74	38-56-83
16	Airflow, CFM	559	838	1117	1396	1676	1955	2234
	Static Pressure [exhaust]	-0.029	-0.065	-0.116	-0.181	-0.260	-0.354	-0.465
	Noise Criteria [exhaust]	<15	23	33	40	45	50	54
	Static Pressure [supply]	0.009	0.020	0.034	0.055	0.078	0.106	0.138
	Noise Criteria [supply]	<15	<15	18	25	31	37	41
	Throw [supply]	10-20-40	15-30-53	22-44-65	28-50-72	34-54-80	40-60-85	45-64-90
18	Airflow, CFM	707	1060	1414	1767	2121	2474	2828
	Static Pressure [exhaust]	-0.028	-0.064	-0.114	-0.177	-0.255	-0.346	-0.454
	Noise Criteria [exhaust]	<15	23	33	40	45	50	54
	Static Pressure [supply]	0.008	0.020	0.033	0.052	0.075	0.103	0.133
	Noise Criteria [supply]	<15	<15	19	26	32	38	42
	Throw [supply]	11-22-44	18-36-61	25-50-72	31-57-80	40-63-89	45-67-95	50-71-101
20	Airflow, CFM	873	1309	1746	2182	2618	3055	3491
	Static Pressure [exhaust]	-0.028	-0.063	-0.111	-0.174	-0.250	-0.342	-0.446
	Noise Criteria [exhaust]	<15	25	35	41	47	52	56
	Static Pressure [supply]	0.008	0.019	0.033	0.051	0.073	0.099	0.128
	Noise Criteria [supply]	<15	<15	19	26	32	38	42
	Throw [supply]	12-24-49	20-40-68	27-53-80	35-63-89	44-68-99	51-74-105	56-78-112

PERFORMANCE DATA:

MODEL RECG

Nominal Size	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
22	Airflow, CFM	1056	1584	2112	2640	3168	3696	4224
	Static Pressure [exhaust]	-0.027	-0.061	-0.110	-0.171	-0.246	-0.336	-0.439
	Noise Criteria [exhaust]	<15	25	35	41	47	52	56
	Static Pressure [supply]	0.008	0.018	0.031	0.049	0.070	0.096	0.125
	Noise Criteria [supply]	<15	<15	20	27	33	39	43
	Throw [supply]	13-27-54	22-44-74	30-57-85	37-68-98	47-76-110	57-85-120	60-87-123
24	Airflow, CFM	1257	1885	2514	3142	3770	4399	5027
	Static Pressure [exhaust]	-0.027	-0.061	-0.108	-0.170	-0.244	-0.331	-0.435
	Noise Criteria [exhaust]	<15	25	35	41	47	52	56
	Static Pressure [supply]	0.008	0.018	0.031	0.049	0.070	0.094	0.123
	Noise Criteria [supply]	<15	<15	21	28	35	40	44
	Throw [supply]	14-29-60	24-48-81	33-66-95	41-75-106	50-84-116	58-88-124	66-95-130
30	Airflow, CFM	1960	2940	3920	4900	5880	6860	7840
	Static Pressure [exhaust]	-0.040	-0.086	-0.160	-0.252	-0.344	-0.492	-0.640
	Noise Criteria [exhaust]	<15	27	36	43	48	54	58
	Static Pressure [supply]	0.010	0.024	0.041	0.068	0.096	0.130	0.164
	Noise Criteria [supply]	<15	<15	20	27	33	38	42
	Throw [supply]	17-34-69	30-60-102	41-82-123	50-90-129	60-101-141	69-107-150	78-116-157

Performance Notes:

- 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 Attenuation of 10 dB and based on Sound Power Level, re 10⁻¹² watts.
- THROW:** Projection distance in feet from outlet at which the maximum velocity has reduced to 200, 100 and 50 fpm respectively.
- TERMINAL VELOCITY:** Maximum velocity [Vt] in feet per minute at the specified distance from the outlet face [THROW] 200 fpm, 100 fpm and 50 fpm respectively.
- Data derived from tests conducted in accordance with ANSI/ASHRAE Standard 70 – 2023.