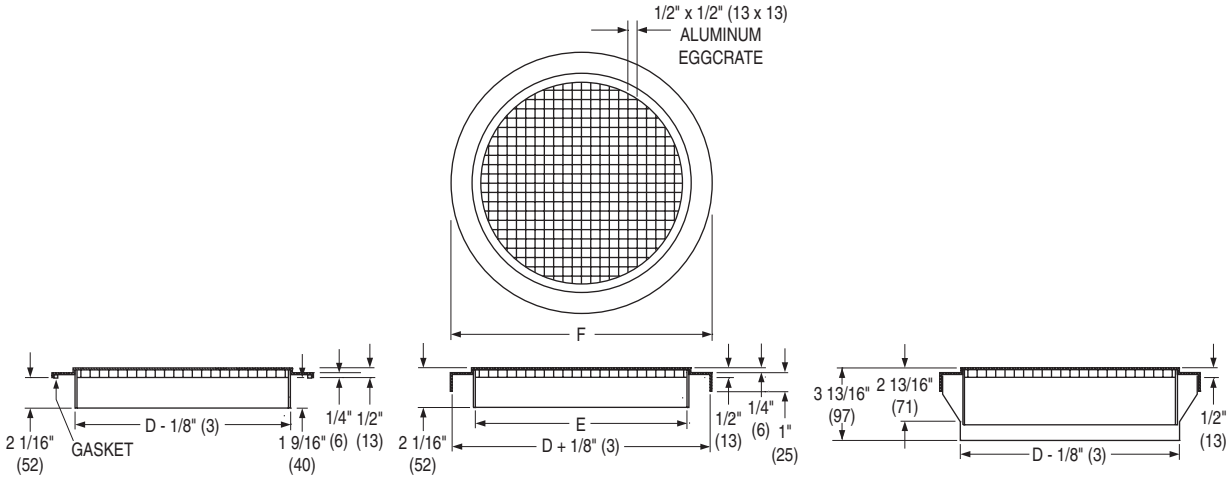
ROUND EGGCRATE GRILLES
ALUMINUM • ROUND NECK
MODEL: RECG



❑ 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	Dimensions are in inches (mm).			
PROJECT				
ENGINEER	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR	**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:

1. **AIRFLOW CFM:** Standard air density and isothermal conditions.
2. **STATIC PRESSURE:** Inches of water gauge required.
3. **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.
4. **THROW:** Projection distance in feet from outlet at which the maximum velocity has reduced to 200, 100 and 50 fpm respectively.
5. **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.
6. Data derived from tests conducted in accordance with ANSI/ ASHRAE Standard 70 – 2006.