

RPG/RSG/RECG

ROUND GRILLE



RPG/RSG/RECG

Round Grille

Round grilles combine the versatility and modern aesthetics of a circular design with high quality, aluminum construction.



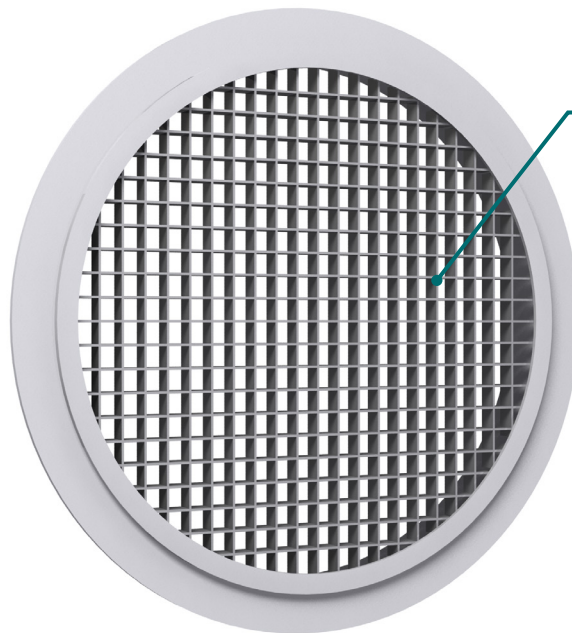
*Individually adjustable blades
with 1, 2 or 3 in. spacing*

Louvered Core



*50% free area
perforated core*

Perforated Core



*Egg crate core provides
low pressure drop and
sound levels*

Egg Crate Core

THREE CORE STYLES

- + Round grilles are available in three core styles with various frame and mounting options to ensure both architectural and engineering requirements are met.

Louvered Core

- + Ideal for supply applications, the louvered core features heavy duty aluminum construction with individually adjustable blades that provide a concentrated column of discharge air or a wide, conical diffusion pattern. This core style is available in single or double deflection with 1, 2 or 3 in. blade spacing, providing ultimate flexibility with performance and aesthetic needs.

Egg Crate Core

- + The 1/2 in. x 1/2 in. egg crate core style provides superb performance characterized by low pressure drop and sound levels. This core style is suitable for return or exhaust applications, or supply applications where a strong, narrow jet of air is required.

Perforated Core

- + The perforated core features 3/16 in. holes with approximately 50% free area. This core style is ideal for return applications and blends well with most interior design conditions.

TYPICAL APPLICATIONS

Round grilles are suitable for sidewall, ceiling and duct mounted applications and are available with a variety of different grille options for fixed supply, adjustable supply and return operation. The unique round design provides an attractive aesthetic to suit a number of different applications.

CONSTRUCTION

- + Core
 - Perforated (RPG)
 - Louvered (RSG)
 - Egg crate (RECG)
- + Mounting
 - Sidewall
 - Ceiling
 - Exposed duct
- + Size
 - 4 in. to 30 in.*

* Size availability dependent on core style.



PERFORMANCE DATA

RSG Single Deflection, 1 in. Blade Spacing

Size	Duct Velocity (fpm) Velocity Pressure (in. w.g.)	400 0.010	600 0.022	800 0.040	1000 0.062	1200 0.090	1400 0.122	1600 0.160
6	Flow Rate (cfm)	78	118	157	196	235	274	314
	Static Pressure (in. w.g.)	0.049	0.110	0.196	0.306	0.441	0.600	0.784
	Sound (NC)	-	17	25	31	37	41	45
	Throw (ft)	4-8-15	6-12-21	8-14-24	10-16-28	13-21-30	15-22-32	17-24-34
8	Flow Rate (cfm)	140	209	279	349	419	489	558
	Static Pressure (in. w.g.)	0.035	0.080	0.142	0.222	0.319	0.434	0.567
	Sound (NC)	-	15	23	29	35	39	43
	Throw (ft)	5-10-20	8-16-27	11-21-32	14-25-36	17-28-39	20-30-41	21-32-45
10	Flow Rate (cfm)	218	327	436	545	654	763	872
	Static Pressure (in. w.g.)	0.027	0.061	0.109	0.170	0.245	0.333	0.435
	Sound (NC)	-	-	21	28	33	37	41
	Throw (ft)	6-12-24	9-17-32	14-26-37	17-31-45	21-34-47	25-37-52	29-40-56
12	Flow Rate (cfm)	314	471	628	785	942	1099	1256
	Static Pressure (in. w.g.)	0.022	0.049	0.086	0.135	0.194	0.264	0.345
	Sound (NC)	-	-	20	26	32	36	40
	Throw (ft)	7-15-30	12-24-40	16-33-47	20-37-53	25-41-59	29-45-65	33-48-74
14	Flow Rate (cfm)	428	641	855	1069	1283	1497	1710
	Static Pressure (in. w.g.)	0.018	0.039	0.070	0.109	0.158	0.214	0.280
	Sound (NC)	-	-	19	25	31	35	39
	Throw (ft)	8-18-37	14-28-47	18-38-55	23-44-61	30-48-70	34-52-74	38-56-83
16	Flow Rate (cfm)	558	838	1117	1396	1675	1954	2234
	Static Pressure (in. w.g.)	0.014	0.032	0.058	0.090	0.130	0.177	0.231
	Sound (NC)	-	-	18	24	30	34	38
	Throw (ft)	10-20-40	15-30-53	22-44-65	28-50-72	34-54-80	40-60-85	45-64-90
18	Flow Rate (cfm)	707	1060	1414	1767	2120	2474	2827
	Static Pressure (in. w.g.)	0.012	0.027	0.048	0.075	0.108	0.147	0.192
	Sound (NC)	-	-	17	24	29	33	37
	Throw (ft)	11-22-44	18-36-61	25-50-72	31-57-80	40-63-89	45-67-95	50-71-101
20	Flow Rate (cfm)	872	1308	1744	2180	2616	3052	3488
	Static Pressure (in. w.g.)	0.010	0.023	0.040	0.063	0.091	0.123	0.161
	Sound (NC)	-	-	16	23	28	32	36
	Throw (ft)	12-24-49	20-40-68	27-53-80	35-63-89	44-68-99	51-74-105	56-78-112
22	Flow Rate (cfm)	1056	1584	2112	2640	3168	3696	4224
	Static Pressure (in. w.g.)	0.008	0.019	0.034	0.053	0.076	0.104	0.135
	Sound (NC)	-	-	16	22	27	32	36
	Throw (ft)	13-27-54	22-44-74	30-57-85	37-68-98	47-76-110	57-85-120	60-87-123
24	Flow Rate (cfm)	1256	1884	2512	3140	3768	4396	5024
	Static Pressure (in. w.g.)	0.007	0.016	0.028	0.044	0.064	0.087	0.114
	Sound (NC)	-	-	15	22	27	31	35
	Throw (ft)	14-29-60	24-48-81	33-66-95	41-75-106	50-84-116	58-88-124	66-95-130

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC values are based on room absorption of 10 dB re 10⁻¹² Watts @ 0° deflection and one diffuser.
7. Blanks "-" indicate an NC level below 15.
8. **Deflection** 0°-22 1/2°-45° The listed deflection settings refer to horizontal deflection. For other deflection angles refer to correction table.

Performance values for various deflection angles

Deflection Angle	0°	10°	20°	30°	40°
Static Pressure [times]	1.0	1.2	1.4	1.9	2.4
Throw [times]	1.0	0.9	0.8	0.7	0.6
Noise Criteria – NC [add]	+0	+3	+7	+11	+16

PERFORMANCE DATA

RSG Single Deflection, 2 in. Blade Spacing

Size	Duct Velocity (fpm) Velocity Pressure (in. w.g.)	400 0.010	600 0.022	800 0.040	1000 0.062	1200 0.090	1400 0.122	1600 0.160
8	Flow Rate (cfm)	140	209	279	349	419	489	558
	Static Pressure (in. w.g.)	0.032	0.072	0.128	0.199	0.287	0.391	0.510
	Sound (NC)	-	-	22	28	34	38	42
	Throw (ft)	5-10-20	8-16-27	11-21-32	14-25-36	17-28-39	20-30-41	21-32-45
10	Flow Rate (cfm)	218	327	436	545	654	763	872
	Static Pressure (in. w.g.)	0.024	0.055	0.098	0.153	0.220	0.300	0.391
	Sound (NC)	-	-	20	27	32	36	40
	Throw (ft)	6-12-24	9-17-32	14-26-37	17-31-45	21-34-47	25-37-52	29-40-56
12	Flow Rate (cfm)	314	471	628	785	942	1099	1256
	Static Pressure (in. w.g.)	0.019	0.044	0.078	0.121	0.175	0.238	0.311
	Sound (NC)	-	-	19	25	31	35	39
	Throw (ft)	7-15-30	12-24-40	16-33-47	20-37-53	25-41-59	29-45-65	33-48-74
14	Flow Rate (cfm)	428	641	855	1069	1283	1497	1710
	Static Pressure (in. w.g.)	0.016	0.035	0.063	0.098	0.142	0.193	0.252
	Sound (NC)	-	-	18	24	30	34	38
	Throw (ft)	8-18-37	14-28-47	18-38-55	23-44-61	30-48-70	34-52-74	38-56-83
16	Flow Rate (cfm)	558	838	1117	1396	1675	1954	2234
	Static Pressure (in. w.g.)	0.013	0.029	0.052	0.081	0.117	0.159	0.208
	Sound (NC)	-	-	17	23	29	33	37
	Throw (ft)	10-20-40	15-30-53	22-44-65	28-50-72	34-54-80	40-60-85	45-64-90
18	Flow Rate (cfm)	707	1060	1414	1767	2120	2474	2827
	Static Pressure (in. w.g.)	0.011	0.024	0.043	0.068	0.097	0.132	0.173
	Sound (NC)	-	-	16	23	28	32	36
	Throw (ft)	11-22-44	18-36-61	25-50-72	31-57-80	40-63-89	45-67-95	50-71-101
20	Flow Rate (cfm)	872	1308	1744	2180	2616	3052	3488
	Static Pressure (in. w.g.)	0.009	0.020	0.036	0.057	0.082	0.111	0.145
	Sound (NC)	-	-	15	22	27	31	35
	Throw (ft)	12-24-49	20-40-68	27-53-80	35-63-89	44-68-99	51-74-105	56-78-112
22	Flow Rate (cfm)	1056	1584	2112	2640	3168	3696	4224
	Static Pressure (in. w.g.)	0.008	0.017	0.030	0.048	0.069	0.093	0.122
	Sound (NC)	-	-	15	21	26	31	35
	Throw (ft)	13-27-54	22-44-74	30-57-85	37-68-98	47-76-110	57-85-120	60-87-123
24	Flow Rate (cfm)	1256	1884	2512	3140	3768	4396	5024
	Static Pressure (in. w.g.)	0.006	0.014	0.026	0.040	0.058	0.078	0.103
	Sound (NC)	-	-	-	21	26	30	34
	Throw (ft)	14-29-60	24-48-81	33-66-95	41-75-106	50-84-116	58-88-124	66-95-130
30	Flow Rate (cfm)	1964	2946	3928	4910	5892	6874	7856
	Static Pressure (in. w.g.)	0.004	0.008	0.015	0.023	0.033	0.045	0.059
	Sound (NC)	-	-	-	19	24	29	32
	Throw (ft)	17-34-69	30-60-102	41-82-123	50-90-129	60-101-141	69-107-150	78-116-157

Performance Notes:

- Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
- Air flow is in cfm.
- All pressures are in in. w.g.
- Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
- Throw data is based on supply air and room air being at isothermal conditions.
- NC values are based on room absorption of 10 dB re 10⁻¹² Watts @ 0° deflection and one diffuser.
- Blanks "-" indicate an NC level below 15.
- Deflection** 0°–22 1/2°–45° The listed deflection settings refer to horizontal deflection. For other deflection angles refer to correction table.

Performance values for various deflection angles

Deflection Angle	0°	10°	20°	30°	40°
Static Pressure [times]	1.0	1.2	1.4	1.9	2.4
Throw [times]	1.0	0.9	0.8	0.7	0.6
Noise Criteria – NC [add]	+0	+3	+7	+11	+16

PERFORMANCE DATA

RSG Single Deflection, 3 in. Blade Spacing

Size	Duct Velocity (fpm) Velocity Pressure (in. w.g.)	400 0.010	600 0.022	800 0.040	1000 0.062	1200 0.090	1400 0.122	1600 0.160
16	Flow Rate (cfm)	558	838	1117	1396	1675	1954	2234
	Static Pressure (in. w.g.)	0.012	0.028	0.049	0.077	0.111	0.151	0.198
	Sound (NC)	-	-	16	22	28	32	36
	Throw (ft)	10-20-40	15-30-53	22-44-65	28-50-72	34-54-80	40-60-85	45-64-90
18	Flow Rate (cfm)	707	1060	1414	1767	2120	2474	2827
	Static Pressure (in. w.g.)	0.010	0.023	0.041	0.064	0.093	0.126	0.165
	Sound (NC)	-	-	15	22	27	31	35
	Throw (ft)	11-22-44	18-36-61	25-50-72	31-57-80	40-63-89	45-67-95	50-71-101
20	Flow Rate (cfm)	872	1308	1744	2180	2616	3052	3488
	Static Pressure (in. w.g.)	0.009	0.019	0.034	0.054	0.078	0.106	0.138
	Sound (NC)	-	-	-	21	26	30	34
	Throw (ft)	12-24-49	20-40-68	27-53-80	35-63-89	44-68-99	51-74-105	56-78-112
22	Flow Rate (cfm)	1056	1584	2112	2640	3168	3696	4224
	Static Pressure (in. w.g.)	0.007	0.016	0.029	0.045	0.065	0.089	0.116
	Sound (NC)	-	-	-	20	25	30	34
	Throw (ft)	13-27-54	22-44-74	30-57-85	37-68-98	47-76-110	57-85-120	60-87-123
24	Flow Rate (cfm)	1256	1884	2512	3140	3768	4396	5024
	Static Pressure (in. w.g.)	0.006	0.014	0.024	0.038	0.055	0.075	0.097
	Sound (NC)	-	-	-	20	25	29	33
	Throw (ft)	14-29-60	24-48-81	33-66-95	41-75-106	50-84-116	58-88-124	66-95-130
30	Flow Rate (cfm)	1964	2946	3928	4910	5892	6874	7856
	Static Pressure (in. w.g.)	0.004	0.008	0.014	0.022	0.032	0.043	0.056
	Sound (NC)	-	-	-	18	23	28	31
	Throw (ft)	17-34-69	30-60-102	41-82-123	50-90-129	60-101-141	69-107-150	78-116-157

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC values are based on room absorption of 10 dB re 10⁻¹² Watts @ 0° deflection and one diffuser.
7. Blanks "-" indicate an NC level below 15.
8. **Deflection** 0°-22 1/2°-45° The listed deflection settings refer to horizontal deflection. For other deflection angles refer to correction table.

Performance values for various deflection angles

Deflection Angle	0°	10°	20°	30°	40°
Static Pressure [times]	1.0	1.2	1.4	1.9	2.4
Throw [times]	1.0	0.9	0.8	0.7	0.6
Noise Criteria – NC [add]	+0	+3	+7	+11	+16

PERFORMANCE DATA

RSG Double Deflection, 1 in. Blade Spacing

Size	Duct Velocity (fpm) Velocity Pressure (in. w.g.)	400 0.010	600 0.022	800 0.040	1000 0.062	1200 0.090	1400 0.122	1600 0.160
6	Flow Rate (cfm)	78	118	157	196	235	274	314
	Static Pressure (in. w.g.)	0.054	0.123	0.218	0.340	0.490	0.667	0.871
	Sound (NC)	-	20	28	34	40	44	48
	Throw (ft)	4-8-15	6-12-21	8-14-24	10-16-28	13-21-30	15-22-32	17-24-34
8	Flow Rate (cfm)	140	209	279	349	419	489	558
	Static Pressure (in. w.g.)	0.039	0.089	0.158	0.246	0.354	0.482	0.630
	Sound (NC)	-	18	26	32	38	42	46
	Throw (ft)	5-10-20	8-16-27	11-21-32	14-25-36	17-28-39	20-30-41	21-32-45
10	Flow Rate (cfm)	218	327	436	545	654	763	872
	Static Pressure (in. w.g.)	0.030	0.068	0.121	0.189	0.272	0.370	0.483
	Sound (NC)	-	16	24	31	36	40	44
	Throw (ft)	6-12-24	9-17-32	14-26-37	17-31-45	21-34-47	25-37-52	29-40-56
12	Flow Rate (cfm)	314	471	628	785	942	1099	1256
	Static Pressure (in. w.g.)	0.024	0.054	0.096	0.150	0.216	0.294	0.383
	Sound (NC)	-	-	23	29	35	39	43
	Throw (ft)	7-15-30	12-24-40	16-33-47	20-37-53	25-41-59	29-45-65	33-48-74
14	Flow Rate (cfm)	428	641	855	1069	1283	1497	1710
	Static Pressure (in. w.g.)	0.019	0.044	0.078	0.122	0.175	0.238	0.311
	Sound (NC)	-	-	22	28	34	38	42
	Throw (ft)	8-18-37	14-28-47	18-38-55	23-44-61	30-48-70	34-52-74	38-56-83
16	Flow Rate (cfm)	558	838	1117	1396	1675	1954	2234
	Static Pressure (in. w.g.)	0.016	0.036	0.064	0.100	0.144	0.196	0.257
	Sound (NC)	-	-	21	27	33	37	41
	Throw (ft)	10-20-40	15-30-53	22-44-65	28-50-72	34-54-80	40-60-85	45-64-90
18	Flow Rate (cfm)	707	1060	1414	1767	2120	2474	2827
	Static Pressure (in. w.g.)	0.013	0.030	0.053	0.083	0.120	0.164	0.214
	Sound (NC)	-	-	20	27	32	36	40
	Throw (ft)	11-22-44	18-36-61	25-50-72	31-57-80	40-63-89	45-67-95	50-71-101
20	Flow Rate (cfm)	872	1308	1744	2180	2616	3052	3488
	Static Pressure (in. w.g.)	0.011	0.025	0.045	0.070	0.101	0.137	0.179
	Sound (NC)	-	-	19	26	31	35	39
	Throw (ft)	12-24-49	20-40-68	27-53-80	35-63-89	44-68-99	51-74-105	56-78-112
22	Flow Rate (cfm)	1056	1584	2112	2640	3168	3696	4224
	Static Pressure (in. w.g.)	0.009	0.021	0.038	0.059	0.085	0.115	0.150
	Sound (NC)	-	-	19	25	30	35	39
	Throw (ft)	13-27-54	22-44-74	30-57-85	37-68-98	47-76-110	57-85-120	60-87-123
24	Flow Rate (cfm)	1256	1884	2512	3140	3768	4396	5024
	Static Pressure (in. w.g.)	0.008	0.018	0.032	0.049	0.071	0.097	0.127
	Sound (NC)	-	-	18	25	30	34	38
	Throw (ft)	14-29-60	24-48-81	33-66-95	41-75-106	50-84-116	58-88-124	66-95-130

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC values are based on room absorption of 10 dB re 10⁻¹² Watts @ 0° deflection and one diffuser.
7. Blanks "-" indicate an NC level below 15.
8. **Deflection 0°-22 1/2°-45°** The listed deflection settings refer to horizontal deflection. For other deflection angles refer to correction table.

Performance values for various deflection angles

Deflection Angle	0°	10°	20°	30°	40°
Static Pressure [times]	1.0	1.2	1.4	1.9	2.4
Throw [times]	1.0	0.9	0.8	0.7	0.6
Noise Criteria – NC [add]	+0	+3	+7	+11	+16

PERFORMANCE DATA

RSG Double Deflection, 2 in. Blade Spacing

Size	Duct Velocity (fpm) Velocity Pressure (in. w.g.)	400 0.010	600 0.022	800 0.040	1000 0.062	1200 0.090	1400 0.122	1600 0.160
8	Flow Rate (cfm)	140	209	279	349	419	489	558
	Static Pressure (in. w.g.)	0.035	0.080	0.142	0.222	0.319	0.434	0.567
	Sound (NC)	-	18	26	32	38	42	46
	Throw (ft)	5-10-20	8-16-27	11-21-32	14-25-36	17-28-39	20-30-41	21-32-45
10	Flow Rate (cfm)	218	327	436	545	654	763	872
	Static Pressure (in. w.g.)	0.027	0.061	0.109	0.170	0.245	0.333	0.435
	Sound (NC)	-	16	24	31	36	40	44
	Throw (ft)	6-12-24	9-17-32	14-26-37	17-31-45	21-34-47	25-37-52	29-40-56
12	Flow Rate (cfm)	314	471	628	785	942	1099	1256
	Static Pressure (in. w.g.)	0.022	0.049	0.086	0.135	0.194	0.264	0.345
	Sound (NC)	-	-	23	29	35	39	43
	Throw (ft)	7-15-30	12-24-40	16-33-47	20-37-53	25-41-59	29-45-65	33-48-74
14	Flow Rate (cfm)	428	641	855	1069	1283	1497	1710
	Static Pressure (in. w.g.)	0.018	0.039	0.070	0.109	0.158	0.214	0.280
	Sound (NC)	-	-	22	28	34	38	42
	Throw (ft)	8-18-37	14-28-47	18-38-55	23-44-61	30-48-70	34-52-74	38-56-83
16	Flow Rate (cfm)	558	838	1117	1396	1675	1954	2234
	Static Pressure (in. w.g.)	0.014	0.032	0.058	0.090	0.130	0.177	0.231
	Sound (NC)	-	-	21	27	33	37	41
	Throw (ft)	10-20-40	15-30-53	22-44-65	28-50-72	34-54-80	40-60-85	45-64-90
18	Flow Rate (cfm)	707	1060	1414	1767	2120	2474	2827
	Static Pressure (in. w.g.)	0.012	0.027	0.048	0.075	0.108	0.147	0.192
	Sound (NC)	-	-	20	27	32	36	40
	Throw (ft)	11-22-44	18-36-61	25-50-72	31-57-80	40-63-89	45-67-95	50-71-101
20	Flow Rate (cfm)	872	1308	1744	2180	2616	3052	3488
	Static Pressure (in. w.g.)	0.010	0.023	0.040	0.063	0.091	0.123	0.161
	Sound (NC)	-	-	19	26	31	35	39
	Throw (ft)	12-24-49	20-40-68	27-53-80	35-63-89	44-68-99	51-74-105	56-78-112
22	Flow Rate (cfm)	1056	1584	2112	2640	3168	3696	4224
	Static Pressure (in. w.g.)	0.008	0.019	0.034	0.053	0.076	0.104	0.135
	Sound (NC)	-	-	19	25	30	35	39
	Throw (ft)	13-27-54	22-44-74	30-57-85	37-68-98	47-76-110	57-85-120	60-87-123
24	Flow Rate (cfm)	1256	1884	2512	3140	3768	4396	5024
	Static Pressure (in. w.g.)	0.007	0.016	0.028	0.044	0.064	0.087	0.114
	Sound (NC)	-	-	18	25	30	34	38
	Throw (ft)	14-29-60	24-48-81	33-66-95	41-75-106	50-84-116	58-88-124	66-95-130

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Air flow is in cfm.
3. All pressures are in in. w.g.
4. Throw values are measured in feet for terminal velocities of 150 fpm (minimum), 100 fpm (middle) and 50 fpm (maximum).
5. Throw data is based on supply air and room air being at isothermal conditions.
6. NC values are based on room absorption of 10 dB re 10⁻¹² Watts @ 0° deflection and one diffuser.
7. Blanks "-" indicate an NC level below 15.
8. **Deflection** 0°-22 1/2°-45° The listed deflection settings refer to horizontal deflection. For other deflection angles refer to correction table.

Performance values for various deflection angles

Deflection Angle	0°	10°	20°	30°	40°
Static Pressure [times]	1.0	1.2	1.4	1.9	2.4
Throw [times]	1.0	0.9	0.8	0.7	0.6
Noise Criteria – NC [add]	+0	+3	+7	+11	+16

PERFORMANCE DATA

RECG

Size	Duct Velocity (fpm) Velocity Pressure (in. w.g.)	400 0.010	600 0.022	800 0.040	1000 0.062	1200 0.090	1400 0.122	1600 0.160
6	Flow Rate (cfm)	79	118	157	196	236	275	314
	Exhaust Static Pressure (in. w.g.)	-0.040	-0.091	-0.162	-0.255	-0.363	-0.500	-0.652
	Exhaust Sound (NC)	<15	22	32	39	45	50	54
	Supply Static Pressure (in. w.g.)	0.015	0.034	0.053	0.096	0.133	0.183	0.233
	Supply Sound (NC)	<15	<15	21	29	35	41	46
	Throw (ft.)	4-8-15	6-12-21	8-14-24	10-16-28	13-21-30	15-22-32	17-24-34
8	Flow Rate (cfm)	140	209	279	349	419	489	559
	Exhaust Static Pressure (in. w.g.)	-0.036	-0.080	-0.142	-0.223	-0.320	-0.432	-0.568
	Exhaust Sound (NC)	<15	22	31	38	44	49	53
	Supply Static Pressure (in. w.g.)	0.012	0.027	0.048	0.076	0.109	0.148	0.192
	Supply Sound (NC)	<15	<15	19	27	33	39	44
	Throw (ft.)	5-10-20	8-16-27	11-21-32	14-25-36	17-28-39	20-30-41	21-32-45
10	Flow Rate (cfm)	218	327	436	545	655	764	873
	Exhaust Static Pressure (in. w.g.)	-0.033	-0.073	-0.130	-0.203	-0.293	-0.397	-0.522
	Exhaust Sound (NC)	<15	22	31	38	44	48	52
	Supply Static Pressure (in. w.g.)	0.010	0.024	0.042	0.066	0.095	0.130	0.169
	Supply Sound (NC)	<15	<15	18	26	32	38	42
	Throw (ft.)	6-12-24	9-17-32	14-26-37	17-31-45	21-34-47	25-37-52	29-40-56
12	Flow Rate (cfm)	314	471	628	786	943	1100	1257
	Exhaust Static Pressure (in. w.g.)	-0.031	-0.070	-0.123	-0.194	-0.278	-0.384	-0.495
	Exhaust Sound (NC)	<15	22	32	38	45	49	53
	Supply Static Pressure (in. w.g.)	0.010	0.022	0.038	0.061	0.086	0.119	0.154
	Supply Sound (NC)	<15	<15	18	25	31	37	41
	Throw (ft.)	7-15-30	12-24-40	16-33-47	20-37-53	25-41-59	29-45-65	33-48-74
14	Flow Rate (cfm)	428	641	855	1069	1283	1497	1711
	Exhaust Static Pressure (in. w.g.)	-0.030	-0.067	-0.119	-0.186	-0.267	-0.365	-0.475
	Exhaust Sound (NC)	<15	23	32	39	45	50	54
	Supply Static Pressure (in. w.g.)	0.009	0.021	0.036	0.055	0.083	0.111	0.145
	Supply Sound (NC)	<15	<15	18	25	31	37	41
	Throw (ft.)	8-18-37	14-28-47	18-38-55	23-44-61	30-48-70	34-52-74	38-56-83
16	Flow Rate (cfm)	559	838	1117	1396	1676	1955	2234
	Exhaust Static Pressure (in. w.g.)	-0.029	-0.065	-0.116	-0.181	-0.260	-0.354	-0.465
	Exhaust Sound (NC)	<15	23	33	40	45	50	54
	Static Pressure [supply]	0.009	0.020	0.034	0.055	0.078	0.106	0.138
	Supply Sound (NC)	<15	<15	18	25	31	37	41
	Throw (ft.)	10-20-40	15-30-53	22-44-65	28-50-72	34-54-80	40-60-85	45-64-90
18	Flow Rate (cfm)	707	1060	1414	1767	2121	2474	2828
	Exhaust Static Pressure (in. w.g.)	-0.028	-0.064	-0.114	-0.177	-0.255	-0.346	-0.454
	Exhaust Sound (NC)	<15	23	33	40	45	50	54
	Supply Static Pressure (in. w.g.)	0.008	0.020	0.033	0.052	0.075	0.103	0.133
	Supply Sound (NC)	<15	<15	19	26	32	38	42
	Throw (ft.)	11-22-44	18-36-61	25-50-72	31-57-80	40-63-89	45-67-95	50-71-101
20	Flow Rate (cfm)	873	1309	1746	2182	2618	3055	3491
	Exhaust Static Pressure (in. w.g.)	-0.028	-0.063	-0.111	-0.174	-0.250	-0.342	-0.446
	Exhaust Sound (NC)	<15	25	35	41	47	52	56
	Supply Static Pressure (in. w.g.)	0.008	0.019	0.033	0.051	0.073	0.099	0.128
	Supply Sound (NC)	<15	<15	19	26	32	38	42
	Throw (ft.)	12-24-49	20-40-68	27-53-80	35-63-89	44-68-99	51-74-105	56-78-112
22	Flow Rate (cfm)	1056	1584	2112	2640	3168	3696	4224
	Exhaust Static Pressure (in. w.g.)	-0.027	-0.061	-0.110	-0.171	-0.246	-0.336	-0.439
	Exhaust Sound (NC)	<15	25	35	41	47	52	56
	Supply Static Pressure (in. w.g.)	0.008	0.018	0.031	0.049	0.070	0.096	0.125
	Supply Sound (NC)	<15	<15	20	27	33	39	43
	Throw (ft.)	13-27-54	22-44-74	30-57-85	37-68-98	47-76-110	57-85-120	60-87-123
24	Flow Rate (cfm)	1257	1885	2514	3142	3770	4399	5027
	Exhaust Static Pressure (in. w.g.)	-0.027	-0.061	-0.108	-0.170	-0.244	-0.331	-0.435
	Exhaust Sound (NC)	<15	25	35	41	47	52	56
	Supply Static Pressure (in. w.g.)	0.008	0.018	0.031	0.049	0.070	0.094	0.123
	Supply Sound (NC)	<15	<15	21	28	35	40	44
	Throw (ft.)	14-29-60	24-48-81	33-66-95	41-75-106	50-84-116	58-88-124	66-95-130

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Projection: Projection distance [THROW] in feet from the Nozzle discharge at which the maximum velocity has been reduced to specified terminal velocity [Vt].
3. 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.
4. Air flow cfm: Based on standard air density and isothermal conditions.
5. Static Pressure: in. w.g. required.
6. Noise Criteria: Noise criteria [NC] curve which is not exceeded with a Room Attenuation of 10db and based on Sound Power Level Re: 10⁻¹² watts.

PERFORMANCE DATA

RPG Exhaust Air Flow

Size	Opening Size Diameter "O"	Opening Area	Opening Velocity (fpm) Static Pressure (in. w.g.)	400	500	600	700	800	1000	1200
				-0.05	-0.08	-0.12	-0.16	-0.21	-0.32	-0.48
4	4	0.087	Flow Rate (cfm)	35	44	52	61	70	87	105
			Sound (NC)	-	-	-	-	22	28	34
5	5	0.136	Flow Rate (cfm)	55	68	82	95	109	136	164
			Sound (NC)	-	-	-	21	24	30	36
6	6	0.196	Flow Rate (cfm)	79	98	118	137	157	196	236
			Sound (NC)	-	-	-	23	26	32	38
8	8	0.349	Flow Rate (cfm)	140	175	209	244	279	349	419
			Sound (NC)	-	-	20	25	28	34	40
10	10	0.545	Flow Rate (cfm)	218	273	327	382	436	545	655
			Sound (NC)	-	-	23	27	30	36	42
12	12	0.786	Flow Rate (cfm)	314	393	471	550	628	786	943
			Sound (NC)	-	-	24	29	32	38	44
14	14	1.069	Flow Rate (cfm)	428	535	641	748	855	1069	1283
			Sound (NC)	-	20	25	30	33	39	45
16	16	1.396	Flow Rate (cfm)	559	698	838	978	1117	1396	1676
			Sound (NC)	-	21	26	31	34	40	46

RPG Supply Air Flow

Size	Opening Size Diameter "O"	Opening Area	Opening Velocity (fpm) Static Pressure (in. w.g.)	400	500	600	700	800	1000	1200
				0.06	0.09	0.13	0.17	0.22	0.35	0.50
4	4	0.087	Flow Rate (cfm)	35	44	52	61	70	87	105
			Sound (NC)	-	-	-	-	-	23	28
			Throw (ft)	2-4-8	3-6-10	4-8-13	4-10-14	5-11-16	7-12-16	8-13-19
5	5	0.136	Flow Rate (cfm)	55	68	82	95	109	136	164
			Sound (NC)	-	-	-	-	-	25	30
			Throw (ft)	3-6-11	4-9-14	5-10-15	6-12-17	7-14-19	8-15-21	10-17-24
6	6	0.196	Flow Rate (cfm)	79	98	118	137	157	196	236
			Sound (NC)	-	-	-	-	20	27	32
			Throw (ft)	4-9-13	5-11-16	6-13-18	8-15-20	9-16-23	10-18-26	12-21-29
8	8	0.349	Flow Rate (cfm)	140	175	209	244	279	349	419
			Sound (NC)	-	-	-	-	22	29	34
			Throw (ft)	5-11-19	7-13-21	8-15-24	10-19-26	11-22-30	14-25-34	
10	10	0.545	Flow Rate (cfm)	218	273	327	382	436	545	655
			Sound (NC)	-	-	-	20	24	31	36
			Throw (ft)	6-12-22	9-16-29	11-20-32	12-24-35	13-27-38	17-31-43	20-34-48
12	12	0.786	Flow Rate (cfm)	314	393	471	550	628	786	943
			Sound (NC)	-	-	-	22	26	33	37
			Throw (ft)	7-14-28	10-19-33	12-24-36	14-27-39	18-31-45	20-34-48	24-40-55
14	14	1.069	cfm	428	535	641	748	855	1069	1283
			NC	-	-	-	24	28	34	39
			Projection	8-17-33	12-22-37	15-28-44	16-32-48	18-37-56	23-42-60	28-45-62
16	16	1.396	cfm	559	698	838	978	1117	1396	1676
			NC	-	-	20	25	29	35	40
			Projection	9-20-38	14-28-46	17-32-52	20-37-58	23-40-62	27-45-65	30-50-70

Performance Notes:

1. Tested in accordance with ASHRAE Standard 70-2006 "Method of Testing for Rating the Performance of Air Outlets and Inlets."
2. Projection: Projection distance [THROW] in feet from the Nozzle discharge at which the maximum velocity has been reduced to specified terminal velocity [Vt].
3. 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.
4. Air flow cfm: Based on standard air density and isothermal conditions.
5. Static Pressure: in. w.g. required.
6. Noise Criteria: Noise criteria [NC] curve which is not exceeded with a Room Attenuation of 10db and based on Sound Power Level Re: 10⁻¹² watts.
7. Blanks "-" indicate an NC value less than 15.



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