

EG / EGC SERIES

Return Grille | Egg-Crate



INTRODUCTION

The EGC5 egg-crate return grilles are designed to fit common commercial applications where the architect requires a return grille without bars on the face and with limited sight through the grille. The EGC5 offers 1/2"x1/2"x1/2" aluminum cube core and 1 1/4" flange. The EGC5 cube core design maximizes the free area making the EGC5 an excellent choice for applications requiring large amounts of air to be returned through the return grille minimizing the pressure drop and sound.

The EGC10 egg-crate return grilles are designed to fit common commercial applications where the architect requires a return grille without bars on the face. The EGC10 offers 1"x1"x1" aluminum cube core and 1 1/4" flange. The EGC10 cube core design maximizes the free area making the EGC10 an excellent choice for applications requiring large amounts of air to be returned through the return grille minimizing the pressure drop and sound.

The EGC15 egg-crate return grilles are designed to fit common commercial applications where the architect requires a return grille without bars on the face and the maximum available limited sight through the grille. The EGC15 offers 1/2"x1/2"x1" aluminum cube core and 1 1/4" flange. The EGC15 cube core design maximizes the free area making the EGC15 an excellent choice for applications requiring large amounts of air to be returned through the return grille minimizing the pressure drop and sound.

MODELS

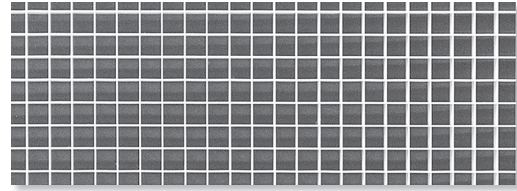
EGC5, EGC10, EGC15 - Egg crate grille with 1 1/4" flange
EG5, EG10, EG15 - Egg crate grille, channel frame (core only)

FEATURES

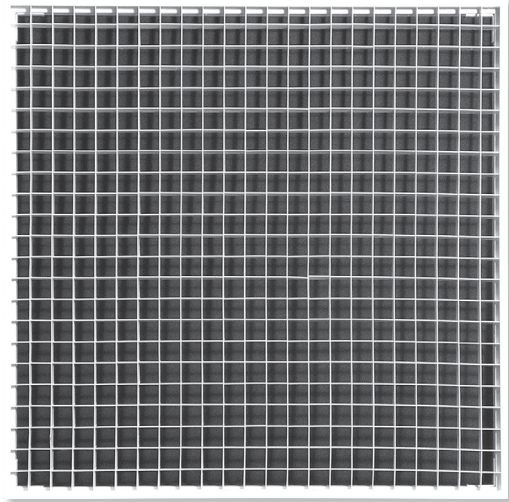
- (EG5, EGC5) 1/2"x1/2"x1/2" aluminum cube core
- (EG10, EGC10) 1"x1"x1" aluminum cube core
- (EG15, EGC15) 1/2"x1/2"x1" aluminum cube core
- Standard finish is #44 British White
- Optional finishes available

ACCESSORIES

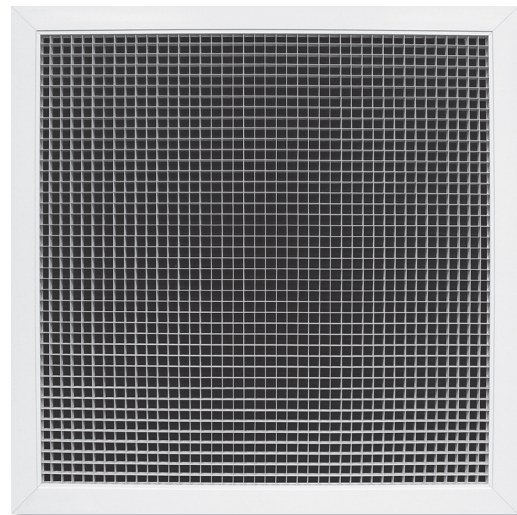
- Steel opposed blade damper (model OBD)
- Steel Painted opposed blade damper (model POBD)
- Aluminum opposed blade damper (model 5OBD)
- Square to round adapter (model SRAC325)
- Steel plaster frame (model 8PF)
- Aluminum plaster frame (model 58PF)
- 1" or 2" filter frame - Minimum size is 8"x8" and maximum size is 48"x36" (model 5FF, available on EGC5 only)



EG5, Frame 23

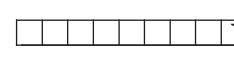
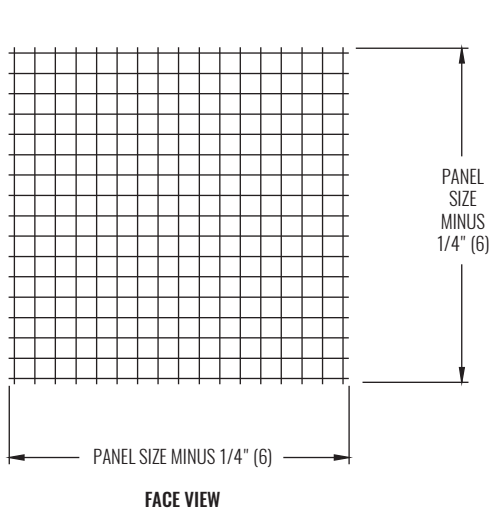


EG10, Frame FTB

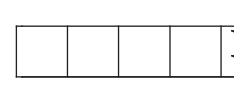


EGC5, Frame F22

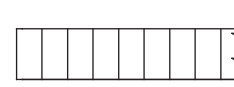
DIMENSIONAL DATA | EG SERIES | FRAME 23



EG5 FRAME 23
1/2" x 1/2" x 1/2"
(13 x 13 x 13)



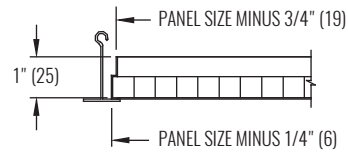
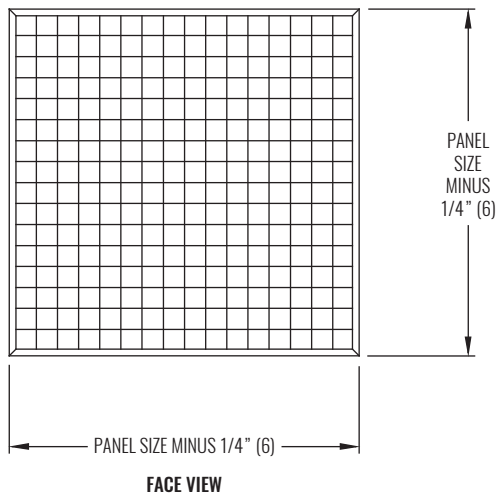
EG10 FRAME 23
1" x 1" x 1"
(25 x 25 x 25)



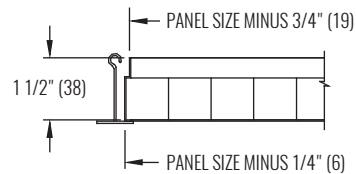
EG15 FRAME 23
1/2" x 1/2" x 1"
(13 x 13 x 25)

NOTE: Dimensions in parentheses are mm.

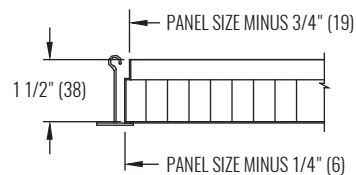
DIMENSIONAL DATA | EG SERIES | FRAME FTB



EG5 FRAME FTB



EG10 FRAME FTB



EG15 FRAME FTB

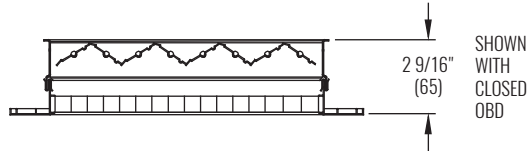
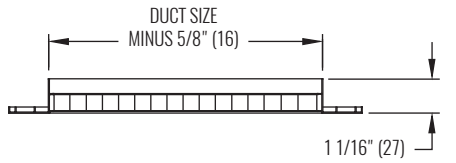
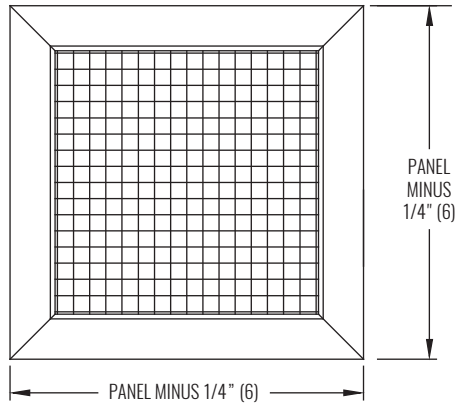
NOTE: Dimensions in parentheses are mm.

EG & EGC SERIES

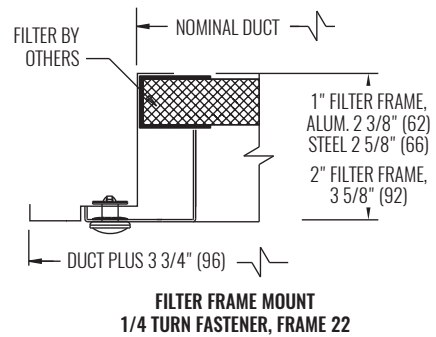
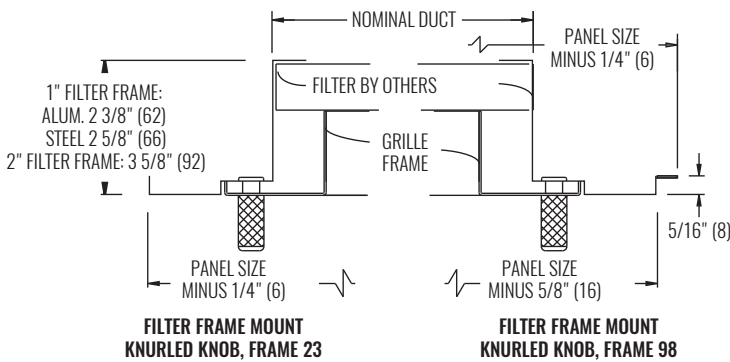
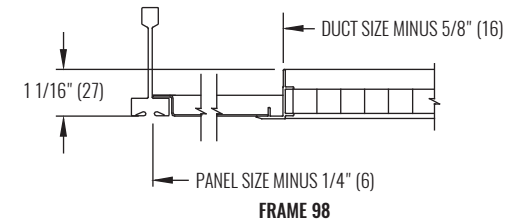
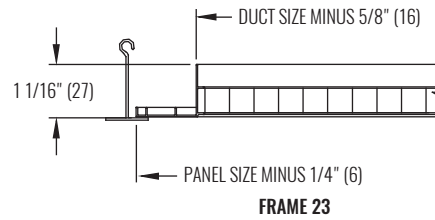
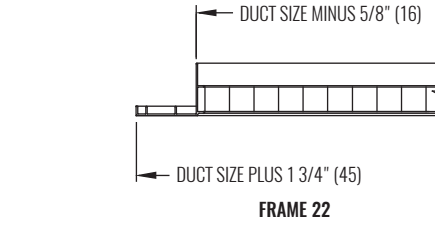
Return Grille | Egg-Crate



DIMENSIONAL DATA | EGC5

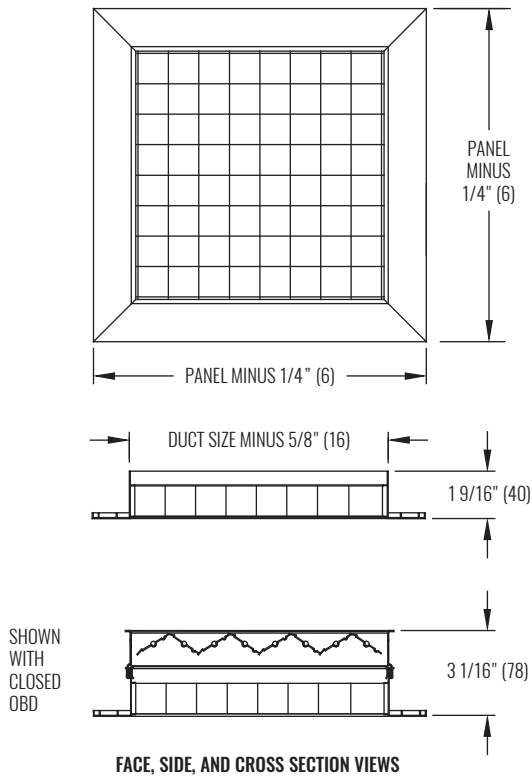


FACE, SIDE, AND CROSS SECTION VIEWS

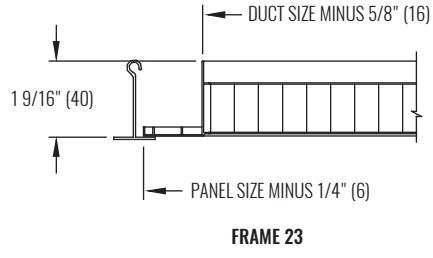
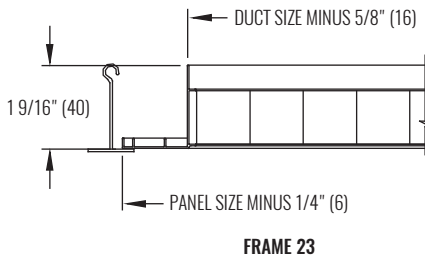
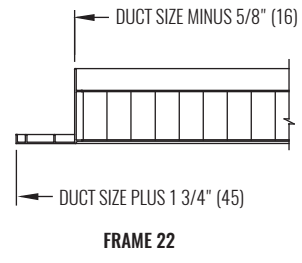
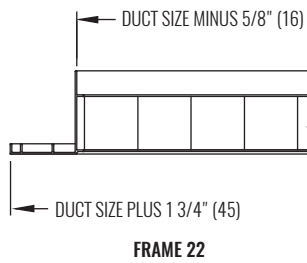
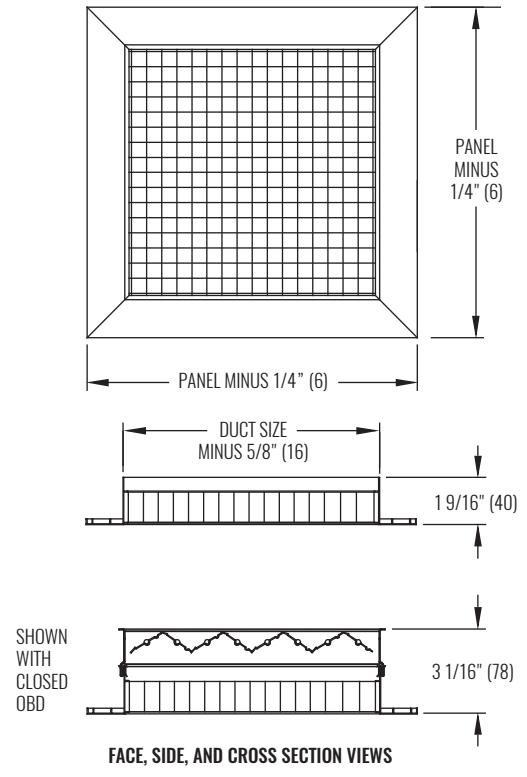


NOTES: Dimensions in parentheses are mm.

DIMENSIONAL DATA | EGC10

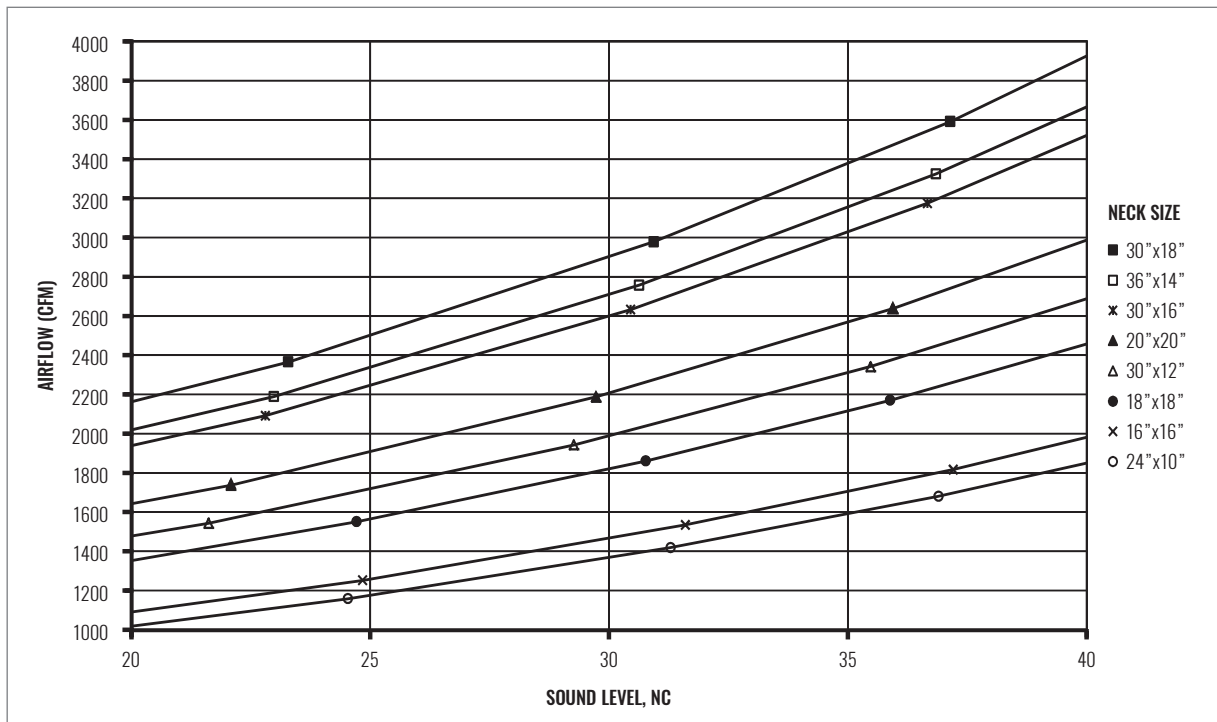
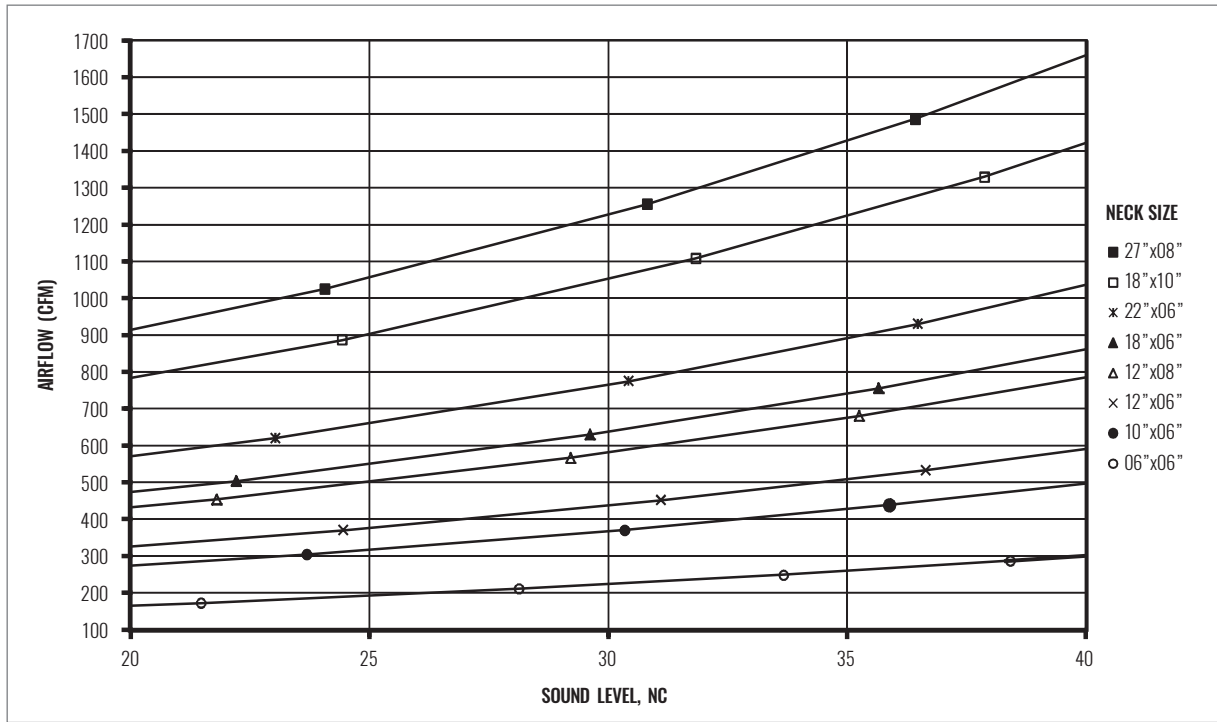


DIMENSIONAL DATA | EGC15

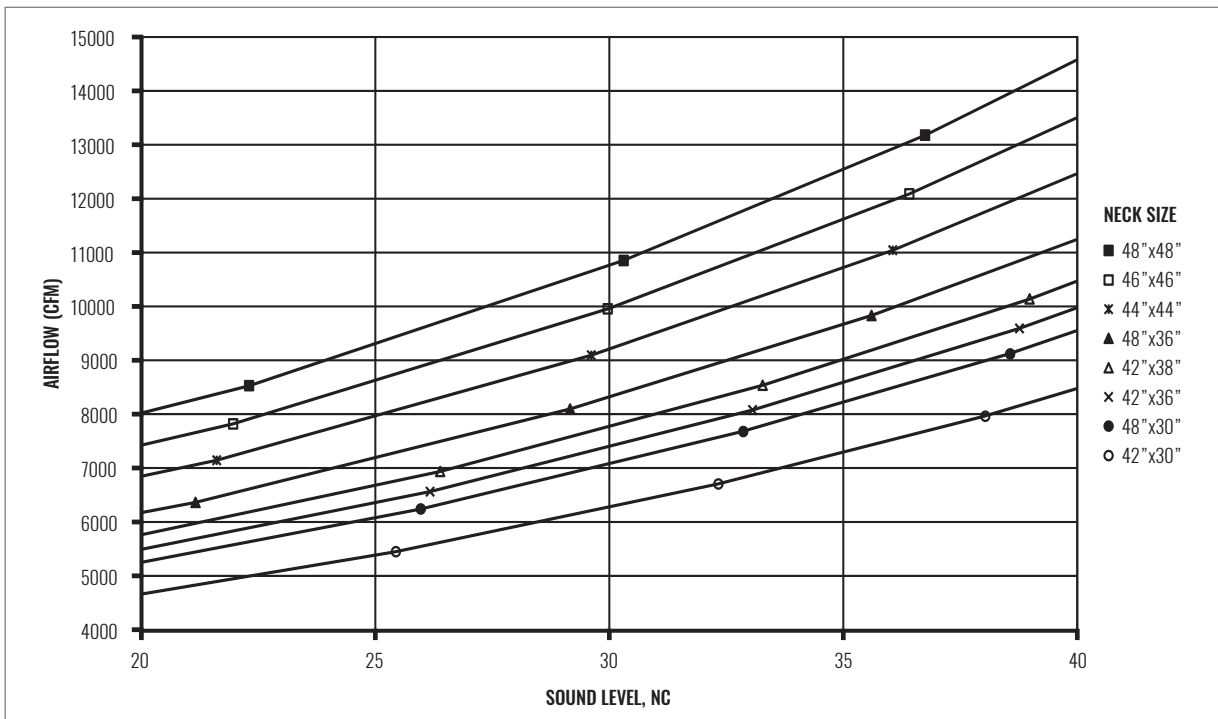
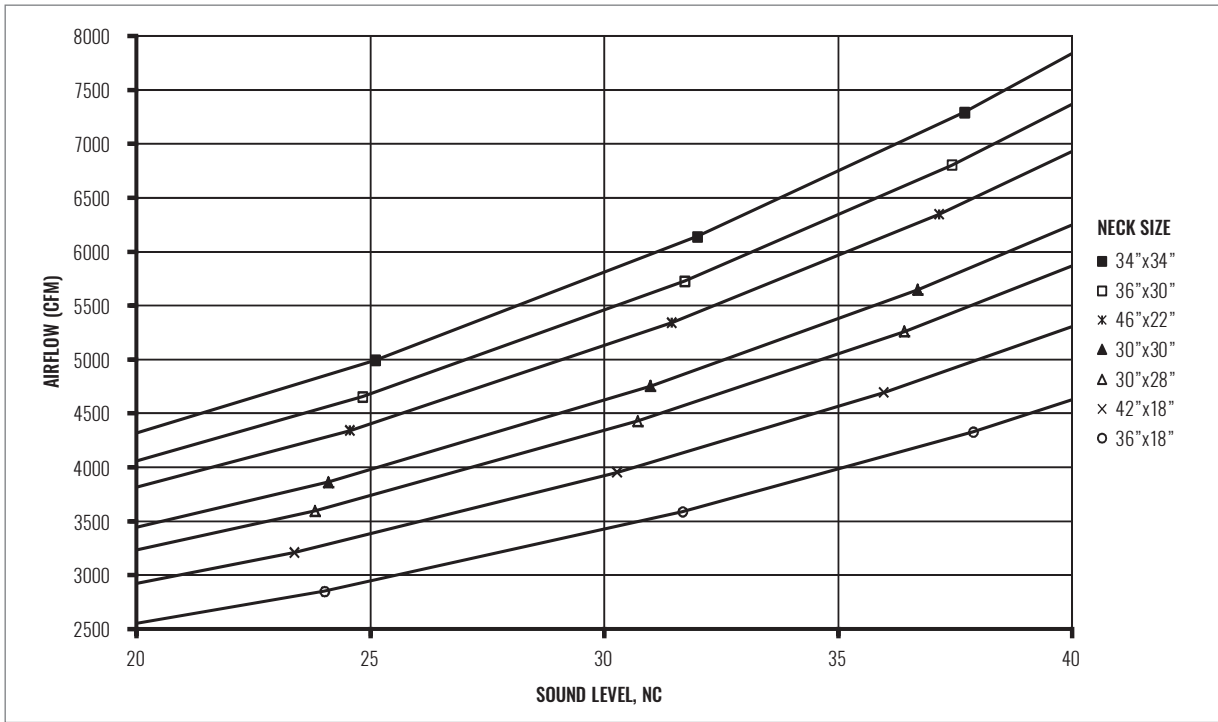


NOTE: Dimensions in parentheses are mm.

SOUND CHARTS | EG5, EGC5 (NO DAMPER)



SOUND CHARTS | EG5, EGC5 (NO DAMPER)



GRILLES | RETURN

EG & EGC SERIES

Return Grille | Egg-Crate



PERFORMANCE DATA | EG5, EGC5 (NO DAMPER)

		IP DATA				NC	METRIC DATA					OCTAVE BAND, dB						
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps	NOM DUCT		DUCT AREA	NECK VEL	AIRFLOW	Ps								
in	ft ²	FPM	CFM	"WG	mm		m ²	m/s	L/s	Pa	2	3	4	5	6	7		
6" x 6"	0.25	700	134	-0.73	13	152 x 152	0.02	3.56	63	-18.1	29	22	24	24	24	17		
		900	172	-1.20	21			4.57	81	-29.9	35	29	30	30	32	29		
		1100	211	-1.79	28			5.59	99	-44.6	39	35	35	36	39	39		
		1300	249	-2.50	34			6.60	117	-62.4	42	39	39	40	45	47		
		1500	287	-3.33	38			7.62	136	-83.0	45	43	43	44	49	54		
10" x 6"	0.42	700	236	-0.73	15	254 x 152	0.04	3.56	111	-18.1	32	25	26	26	26	20		
		900	304	-1.20	24			4.57	143	-29.9	37	31	32	33	35	32		
		1100	371	-1.79	30			5.59	175	-44.6	41	37	37	38	41	41		
		1300	438	-2.50	36			6.60	207	-62.4	45	42	41	43	47	49		
		1500	506	-3.33	41			7.62	239	-83.0	48	46	45	46	52	56		
12" x 6"	0.50	700	287	-0.73	16	305 x 152	0.05	3.56	136	-18.1	32	25	27	27	27	20		
		900	369	-1.20	24			4.57	174	-29.9	38	32	33	33	35	32		
		1100	451	-1.79	31			5.59	213	-44.6	42	38	38	39	42	42		
		1300	533	-2.50	37			6.60	252	-62.4	45	42	42	43	48	50		
		1500	615	-3.33	41			7.62	290	-83.0	48	46	46	47	52	57		
12" x 8"	0.67	600	340	-0.53	12	305 x 203	0.06	3.05	160	-13.3	30	22	24	24	23	14		
		800	453	-0.95	22			4.06	214	-23.6	36	30	31	32	33	28		
		1000	566	-1.48	29			5.08	267	-36.9	41	36	37	38	40	39		
		1200	680	-2.13	35			6.10	321	-53.1	45	41	41	42	46	48		
		1400	793	-2.90	40			7.11	374	-72.3	48	46	45	47	51	55		
18" x 6"	0.75	600	377	-0.53	13	457 x 152	0.07	3.05	178	-13.3	31	23	25	24	24	15		
		800	503	-0.95	22			4.06	237	-23.6	37	31	32	32	33	28		
		1000	629	-1.48	30			5.08	297	-36.9	42	37	37	38	41	39		
		1200	755	-2.13	36			6.10	356	-53.1	45	42	42	43	47	48		
		1400	880	-2.90	41			7.11	416	-72.3	49	46	45	47	52	56		
22" x 6"	0.92	600	465	-0.53	13	559 x 152	0.09	3.05	219	-13.3	32	24	25	25	24	15		
		800	620	-0.95	23			4.06	293	-23.6	38	31	32	33	34	29		
		1000	775	-1.48	30			5.08	366	-36.9	42	38	38	39	41	40		
		1200	930	-2.13	36			6.10	439	-53.1	46	43	42	44	48	49		
		1400	1085	-2.90	42			7.11	512	-72.3	49	47	46	48	53	56		
18" x 10"	1.25	600	665	-0.53	15	457 x 254	0.12	3.05	314	-13.3	33	25	27	26	26	17		
		800	886	-0.95	24			4.06	418	-23.6	39	33	34	34	35	31		
		1000	1108	-1.48	32			5.08	523	-36.9	44	39	39	40	43	41		
		1200	1330	-2.13	38			6.10	628	-53.1	48	44	44	45	49	50		
		1400	1551	-2.90	43			7.11	732	-72.3	51	48	48	49	54	58		
27" x 8"	1.50	600	793	-0.53	16	686 x 203	0.14	3.05	374	-13.3	34	26	27	27	26	17		
		775	1024	-0.89	24			3.94	483	-22.2	39	33	34	34	35	30		
		950	1256	-1.34	31			4.83	593	-33.3	43	38	39	39	42	40		
		1125	1487	-1.88	36			5.72	702	-46.7	47	43	43	44	47	48		
		1300	1718	-2.50	41			6.60	811	-62.4	50	47	47	48	52	55		
24" x 10"	1.67	600	896	-0.53	16	610 x 254	0.15	3.05	423	-13.3	34	26	28	28	27	18		
		775	1157	-0.89	25			3.94	546	-22.2	40	33	34	35	35	30		
		950	1419	-1.34	31			4.83	670	-33.3	44	39	39	40	42	40		
		1125	1680	-1.88	37			5.72	793	-46.7	47	43	43	45	48	48		
		1300	1942	-2.50	42			6.60	916	-62.4	50	47	47	48	53	55		
16" x 16"	1.78	600	969	-0.53	16	406 x 406	0.17	3.05	457	-13.3	35	26	28	28	27	18		
		775	1252	-0.89	25			3.94	591	-22.2	40	33	35	35	36	31		
		950	1534	-1.34	32			4.83	724	-33.3	44	39	40	40	43	40		
		1125	1817	-1.88	37			5.72	857	-46.7	48	44	44	45	48	49		
		1300	2100	-2.50	42			6.60	991	-62.4	51	48	47	49	53	56		
18" x 18"	2.25	600	1240	-0.53	17	457 x 457	0.21	3.05	585	-13.3	35	27	29	29	28	19		
		750	1550	-0.83	25			3.81	731	-20.8	40	34	35	35	36	30		
		900	1860	-1.20	31			4.57	878	-29.9	44	39	39	40	42	39		
		1050	2170	-1.63	36			5.33	1024	-40.7	47	43	43	44	47	46		
		1200	2480	-2.13	40			6.10	1170	-53.1	50	46	46	48	51	53		

NOTE: See notes on page J1-118.

PERFORMANCE DATA | EG5, EGC5 (NO DAMPER)

IP DATA					NC	METRIC DATA					OCTAVE BAND, dB						
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps		NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps	2	3	4	5	6	7	
in	ft ²	FPM	CFM	"WG		mm	m ²	m/s	L/s	Pa							
30" x 12"	2.50	500	1143	-0.37	12	762 x 305	0.23	2.54	539	-9.2	32	23	25	24	23	11	
		675	1542	-0.68	22			3.43	728	-16.8	38	31	33	32	33	25	
		850	1942	-1.07	29			4.32	917	-26.7	43	37	38	39	40	36	
		1025	2342	-1.56	35			5.21	1105	-38.8	47	43	43	44	46	45	
		1200	2742	-2.13	41			6.10	1294	-53.1	50	47	47	48	52	53	
20" x 20"	2.78	500	1287	-0.37	12	508 x 508	0.26	2.54	607	-9.2	33	23	26	25	23	11	
		675	1737	-0.68	22			3.43	820	-16.8	39	31	33	33	33	26	
		850	2187	-1.07	30			4.32	1032	-26.7	44	38	39	39	41	37	
		1025	2638	-1.56	36			5.21	1245	-38.8	48	43	43	44	47	46	
		1200	3088	-2.13	41			6.10	1457	-53.1	51	47	47	48	52	54	
30" x 16"	3.33	500	1549	-0.37	13	762 x 406	0.31	2.54	731	-9.2	33	24	26	26	24	12	
		675	2091	-0.68	23			3.43	987	-16.8	40	32	34	34	34	26	
		850	2633	-1.07	30			4.32	1243	-26.7	44	39	39	40	41	38	
		1025	3175	-1.56	37			5.21	1498	-38.8	48	44	44	45	48	47	
		1200	3717	-2.13	42			6.10	1754	-53.1	52	48	48	49	53	54	
36" x 14"	3.50	500	1622	-0.37	13	914 x 356	0.33	2.54	765	-9.2	33	24	26	26	24	12	
		675	2189	-0.68	23			3.43	1033	-16.8	40	32	34	34	34	27	
		850	2757	-1.07	31			4.32	1301	-26.7	45	39	40	40	42	38	
		1025	3325	-1.56	37			5.21	1569	-38.8	48	44	44	45	48	47	
		1200	3892	-2.13	42			6.10	1837	-53.1	52	48	48	49	53	54	
30" x 18"	3.75	500	1752	-0.37	13	762 x 457	0.35	2.54	827	-9.2	34	24	27	26	24	12	
		675	2365	-0.68	23			3.43	1116	-16.8	40	33	34	34	34	27	
		850	2978	-1.07	31			4.32	1406	-26.7	45	39	40	40	42	38	
		1025	3592	-1.56	37			5.21	1695	-38.8	49	44	44	45	48	47	
		1200	4205	-2.13	42			6.10	1984	-53.1	52	49	48	50	53	55	
36" x 18"	4.50	500	2111	-0.37	14	914 x 457	0.42	2.54	996	-9.2	34	25	28	27	25	13	
		675	2850	-0.68	24			3.43	1345	-16.8	41	33	35	35	35	28	
		850	3589	-1.07	32			4.32	1694	-26.7	46	40	41	41	43	39	
		1025	4328	-1.56	38			5.21	2043	-38.8	50	45	45	46	49	48	
		1200	5067	-2.13	43			6.10	2391	-53.1	53	49	49	50	54	55	
42" x 18"	5.25	500	2471	-0.37	15	1067 x 457	0.49	2.54	1166	-9.2	35	26	28	27	26	14	
		650	3212	-0.63	23			3.30	1516	-15.6	41	33	35	34	34	26	
		800	3953	-0.95	30			4.06	1866	-23.6	45	39	40	40	41	36	
		950	4694	-1.34	36			4.83	2215	-33.3	49	43	44	45	47	45	
		1100	5436	-1.79	41			5.59	2565	-44.6	52	47	48	49	52	52	
30" x 28"	5.83	500	2768	-0.37	15	762 x 711	0.54	2.54	1306	-9.2	36	26	29	28	26	14	
		650	3598	-0.63	24			3.30	1698	-15.6	41	33	35	35	35	27	
		800	4428	-0.95	31			4.06	2090	-23.6	45	39	40	40	42	37	
		950	5258	-1.34	36			4.83	2482	-33.3	49	44	44	45	47	45	
		1100	6089	-1.79	41			5.59	2874	-44.6	52	48	48	49	52	52	
30" x 30"	6.25	500	2971	-0.37	15	762 x 762	0.58	2.54	1402	-9.2	36	26	29	28	26	14	
		650	3862	-0.63	24			3.30	1823	-15.6	41	34	35	35	35	27	
		800	4753	-0.95	31			4.06	2243	-23.6	46	39	40	41	42	37	
		950	5644	-1.34	37			4.83	2664	-33.3	49	44	45	45	48	46	
		1100	6536	-1.79	42			5.59	3084	-44.6	52	48	48	49	53	53	
46" x 22"	7.03	500	3339	-0.37	16	1168 x 559	0.65	2.54	1576	-9.2	36	27	29	29	27	15	
		650	4340	-0.63	25			3.30	2048	-15.6	42	34	36	36	35	28	
		800	5342	-0.95	31			4.06	2521	-23.6	46	40	41	41	42	38	
		950	6344	-1.34	37			4.83	2994	-33.3	50	45	45	46	48	46	
		1100	7345	-1.79	42			5.59	3467	-44.6	53	49	49	50	53	53	
36" x 30"	7.50	500	3580	-0.37	16	914 x 762	0.70	2.54	1690	-9.2	37	27	30	29	27	15	
		650	4654	-0.63	25			3.30	2196	-15.6	42	34	36	36	36	28	
		800	5728	-0.95	32			4.06	2703	-23.6	46	40	41	41	43	38	
		950	6802	-1.34	37			4.83	3210	-33.3	50	45	45	46	48	46	
		1100	7876	-1.79	42			5.59	3717	-44.6	53	49	49	50	53	53	

NOTE: See notes on page J1-118.

EG & EGC SERIES

Return Grille | Egg-Crate

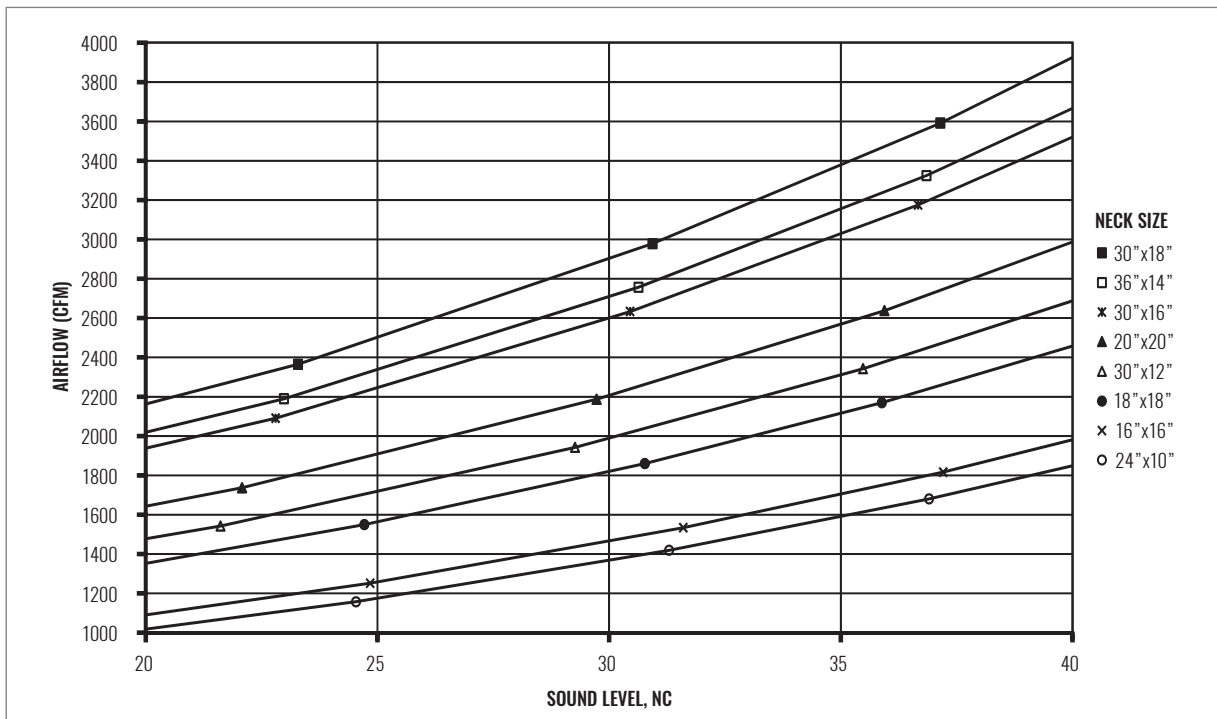
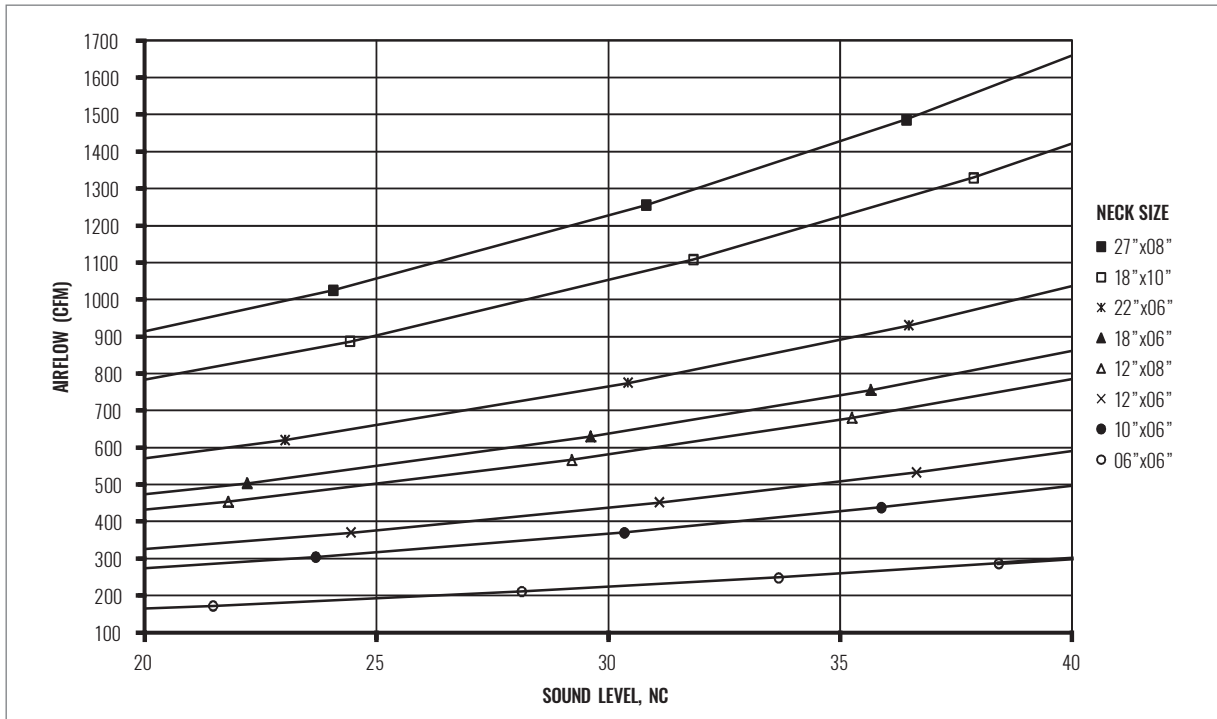


PERFORMANCE DATA | EG5, EGC5 (NO DAMPER)

		IP DATA				NC	METRIC DATA					OCTAVE BAND, dB						
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps	NOM DUCT		DUCT AREA	NECK VEL	AIRFLOW	Ps	2	3	4	5	6	7		
in	ft ²	FPM	CFM	"WG	mm		m ²	m/s	L/s	Pa								
34" x 34"	8.03	500	3839	-0.37	16	864 x 864	0.75	2.54	1812	-9.2	37	27	30	29	27	15		
		650	4990	-0.63	25			3.30	2355	-15.6	42	35	36	36	36	28		
		800	6142	-0.95	32			4.06	2899	-23.6	47	40	41	42	43	38		
		950	7294	-1.34	38			4.83	3442	-33.3	50	45	46	46	49	47		
		1100	8445	-1.79	43			5.59	3986	-44.6	53	49	49	50	54	54		
42" x 30"	8.75	500	4189	-0.37	17	1067 x 762	0.81	2.54	1977	-9.2	37	28	30	29	28	16		
		650	5446	-0.63	25			3.30	2570	-15.6	43	35	37	37	36	28		
		800	6703	-0.95	32			4.06	3164	-23.6	47	41	42	42	43	39		
		950	7960	-1.34	38			4.83	3757	-33.3	51	45	46	47	49	47		
		1100	9217	-1.79	43			5.59	4350	-44.6	54	50	50	51	54	54		
48" x 30"	10.00	500	4799	-0.37	17	1219 x 762	0.93	2.54	2265	-9.2	38	28	31	30	28	16		
		650	6238	-0.63	26			3.30	2944	-15.6	43	36	37	37	29			
		800	7678	-0.95	33			4.06	3624	-23.6	48	41	42	43	44	39		
		950	9118	-1.34	39			4.83	4303	-33.3	51	46	47	47	50	47		
		1100	10557	-1.79	43			5.59	4983	-44.6	54	50	50	51	54	54		
42" x 36"	10.50	500	5049	-0.37	17	1067 x 914	0.98	2.54	2383	-9.2	38	29	31	30	28	17		
		650	6563	-0.63	26			3.30	3098	-15.6	43	36	37	37	29			
		800	8078	-0.95	33			4.06	3812	-23.6	48	41	43	43	44	39		
		950	9593	-1.34	39			4.83	4527	-33.3	51	46	47	47	50	48		
		1100	11107	-1.79	44			5.59	5242	-44.6	54	50	50	51	55	55		
42" x 38"	11.08	500	5335	-0.37	18	1067 x 965	1.03	2.54	2518	-9.2	38	29	31	30	29	17		
		650	6936	-0.63	26			3.30	3273	-15.6	44	36	38	37	29			
		800	8536	-0.95	33			4.06	4029	-23.6	48	42	43	43	44	39		
		950	10137	-1.34	39			4.83	4784	-33.3	52	46	47	48	50	48		
		1100	11738	-1.79	44			5.59	5540	-44.6	55	50	51	52	55	55		
48" x 36"	12.00	400	4627	-0.24	11	1219 x 914	1.11	2.03	2183	-5.9	34	23	26	25	21	-		
		550	6362	-0.45	21			2.79	3002	-11.2	40	32	34	33	22			
		700	8096	-0.73	29			3.56	3821	-18.1	45	38	40	40	40	33		
		850	9831	-1.07	36			4.32	4640	-26.7	50	44	45	45	47	43		
		1000	11566	-1.48	41			5.08	5459	-36.9	53	48	49	49	52	51		
44" x 44"	13.44	400	5196	-0.24	11	1118 x 1118	1.25	2.03	2452	-5.9	34	23	26	25	22	-		
		550	7145	-0.45	22			2.79	3372	-11.2	41	32	34	34	22			
		700	9093	-0.73	30			3.56	4291	-18.1	46	39	40	40	41	34		
		850	11042	-1.07	36			4.32	5211	-26.7	50	44	45	45	47	43		
		1000	12990	-1.48	41			5.08	6131	-36.9	53	49	49	50	52	51		
46" x 46"	14.69	400	5688	-0.24	11	1168 x 1168	1.37	2.03	2684	-5.9	35	24	27	26	22	-		
		550	7821	-0.45	22			2.79	3691	-11.2	41	32	35	34	33	22		
		700	9953	-0.73	30			3.56	4697	-18.1	46	39	41	41	41	34		
		850	12086	-1.07	36			4.32	5704	-26.7	50	44	45	46	47	44		
		1000	14219	-1.48	42			5.08	6711	-36.9	54	49	49	50	53	51		
48" x 48"	16.00	400	6202	-0.24	12	1219 x 1219	1.49	2.03	2927	-5.9	35	24	27	26	23	-		
		550	8527	-0.45	22			2.79	4024	-11.2	42	33	35	34	33	23		
		700	10853	-0.73	30			3.56	5122	-18.1	47	39	41	41	41	34		
		850	13178	-1.07	37			4.32	6219	-26.7	51	45	46	46	48	44		
		1000	15504	-1.48	42			5.08	7317	-36.9	54	49	50	50	53	52		

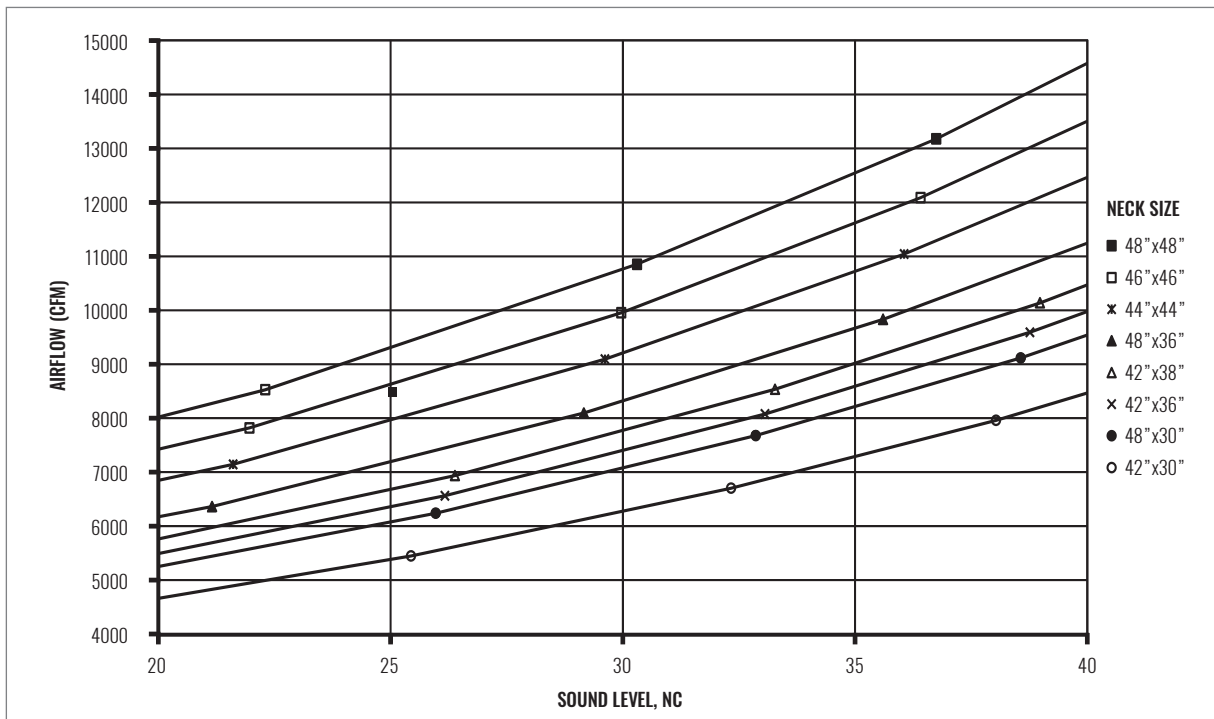
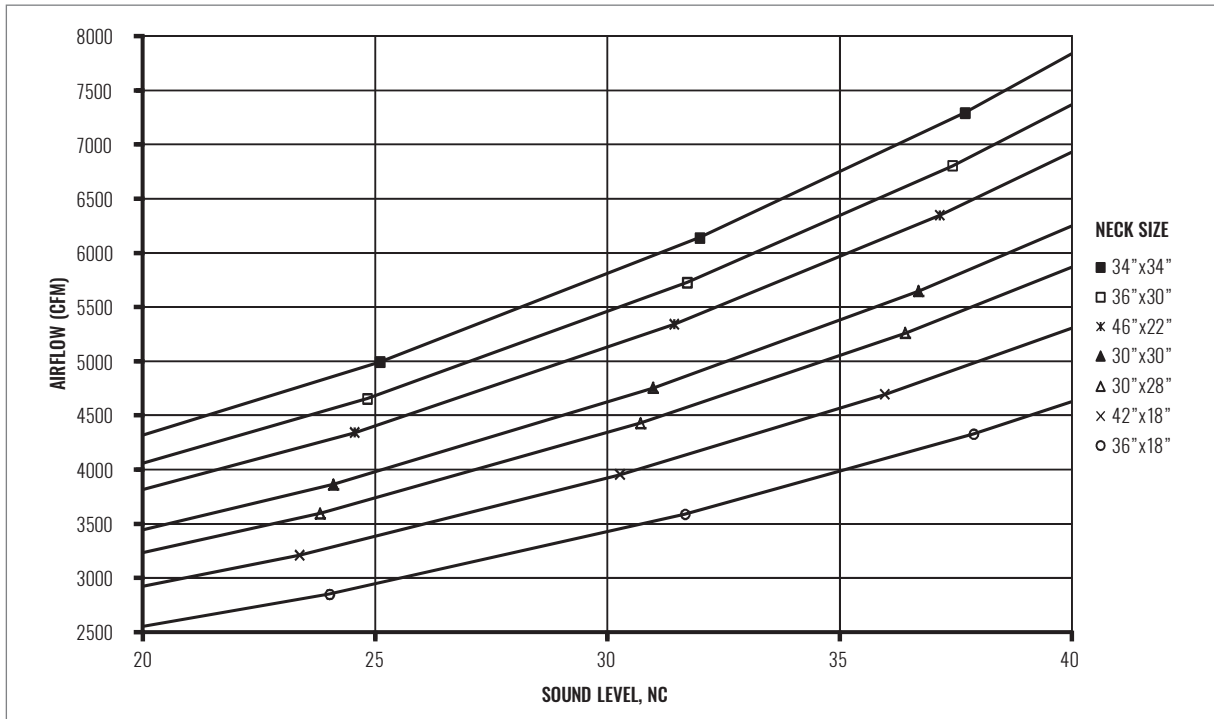
NOTES: NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

SOUND CHARTS | EG10, EGC10 (NO DAMPER)



GRILLES | RETURN

SOUND CHARTS | EG10, EGC10 (NO DAMPER)



PERFORMANCE DATA | EG10, EGC10 (NO DAMPER)

IP DATA					NC	METRIC DATA					OCTAVE BAND, dB						
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps		NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps							
in	ft ²	FPM	CFM	"WG		mm	m ²	m/s	L/s	Pa	2	3	4	5	6	7	
6" x 6"	0.25	700	134	-0.74	13	152 x 152	0.02	3.56	63	-18.3	29	22	24	24	24	17	
		900	172	-1.22	21			4.57	81	-30.3	35	29	30	30	32	29	
		1100	211	-1.82	28			5.59	99	-45.3	39	35	35	36	39	39	
		1300	249	-2.54	34			6.60	117	-63.2	42	39	39	40	45	47	
		1500	287	-3.38	38			7.62	136	-84.2	45	43	43	44	49	54	
10" x 6"	0.42	700	236	-0.74	15	254 x 152	0.04	3.56	111	-18.3	32	25	26	26	26	20	
		900	304	-1.22	24			4.57	143	-30.3	37	31	32	33	35	32	
		1100	371	-1.82	30			5.59	175	-45.3	41	37	37	38	41	41	
		1300	438	-2.54	36			6.60	207	-63.2	45	42	41	43	47	49	
		1500	506	-3.38	41			7.62	239	-84.2	48	46	45	46	52	56	
12" x 6"	0.50	700	287	-0.74	16	305 x 152	0.05	3.56	136	-18.3	32	25	27	27	27	20	
		900	369	-1.22	24			4.57	174	-30.3	38	32	33	33	35	32	
		1100	451	-1.82	31			5.59	213	-45.3	42	38	38	39	42	42	
		1300	533	-2.54	37			6.60	252	-63.2	45	42	42	43	48	50	
		1500	615	-3.38	41			7.62	290	-84.2	48	46	46	47	52	57	
12" x 8"	0.67	600	340	-0.54	12	305 x 203	0.06	3.05	160	-13.5	30	22	24	24	23	14	
		800	453	-0.96	22			4.06	214	-23.9	36	30	31	32	33	28	
		1000	566	-1.50	29			5.08	267	-37.4	41	36	37	38	40	39	
		1200	680	-2.16	35			6.10	321	-53.9	45	41	41	42	46	48	
		1400	793	-2.94	40			7.11	374	-73.3	48	46	45	47	51	55	
18" x 6"	0.75	600	377	-0.54	13	457 x 152	0.07	3.05	178	-13.5	31	23	25	24	24	15	
		800	503	-0.96	22			4.06	237	-23.9	37	31	32	32	33	28	
		1000	629	-1.50	30			5.08	297	-37.4	42	37	37	38	41	39	
		1200	755	-2.16	36			6.10	356	-53.9	45	42	42	43	47	48	
		1400	880	-2.94	41			7.11	416	-73.3	49	46	45	47	52	56	
22" x 6"	0.92	600	465	-0.54	13	559 x 152	0.09	3.05	219	-13.5	32	24	25	25	24	15	
		800	620	-0.96	23			4.06	293	-23.9	38	31	32	33	34	29	
		1000	775	-1.50	30			5.08	366	-37.4	42	38	38	39	41	40	
		1200	930	-2.16	36			6.10	439	-53.9	46	43	42	44	48	49	
		1400	1085	-2.94	42			7.11	512	-73.3	49	47	46	48	53	56	
18" x 10"	1.25	600	665	-0.54	15	457 x 254	0.12	3.05	314	-13.5	33	25	27	26	26	17	
		800	886	-0.96	24			4.06	418	-23.9	39	33	34	34	35	31	
		1000	1108	-1.50	32			5.08	523	-37.4	44	39	39	40	43	41	
		1200	1330	-2.16	38			6.10	628	-53.9	48	44	44	45	49	50	
		1400	1551	-2.94	43			7.11	732	-73.3	51	48	48	49	54	58	
27" x 8"	1.50	600	793	-0.54	16	686 x 203	0.14	3.05	374	-13.5	34	26	27	27	26	17	
		775	1024	-0.90	24			3.94	483	-22.5	39	33	34	34	35	30	
		950	1256	-1.36	31			4.83	593	-33.8	43	38	39	39	42	40	
		1125	1487	-1.90	36			5.72	702	-47.3	47	43	43	44	47	48	
		1300	1718	-2.54	41			6.60	811	-63.2	50	47	47	48	52	55	
24" x 10"	1.67	600	896	-0.54	16	610 x 254	0.15	3.05	423	-13.5	34	26	28	28	27	18	
		775	1157	-0.90	25			3.94	546	-22.5	40	33	34	35	35	30	
		950	1419	-1.36	31			4.83	670	-33.8	44	39	39	40	42	40	
		1125	1680	-1.90	37			5.72	793	-47.3	47	43	43	45	48	48	
		1300	1942	-2.54	42			6.60	916	-63.2	50	47	47	48	53	55	
16" x 16"	1.78	600	969	-0.54	16	406 x 406	0.17	3.05	457	-13.5	35	26	28	28	27	18	
		775	1252	-0.90	25			3.94	591	-22.5	40	33	35	35	36	31	
		950	1534	-1.36	32			4.83	724	-33.8	44	39	40	40	43	40	
		1125	1817	-1.90	37			5.72	857	-47.3	48	44	44	45	48	49	
		1300	2100	-2.54	42			6.60	991	-63.2	51	48	47	49	53	56	
18" x 18"	2.25	600	1240	-0.54	17	457 x 457	0.21	3.05	585	-13.5	35	27	29	29	28	19	
		750	1550	-0.85	25			3.81	731	-21.0	40	34	35	35	36	30	
		900	1860	-1.22	31			4.57	878	-30.3	44	39	39	40	42	39	
		1050	2170	-1.66	36			5.33	1024	-41.2	47	43	43	44	47	46	
		1200	2480	-2.16	40			6.10	1170	-53.9	50	46	46	48	51	53	

NOTE: See notes on page J1-123.

EG & EGC SERIES

Return Grille | Egg-Crate



PERFORMANCE DATA | EG10, EGC10 (NO DAMPER)

		IP DATA				NC	METRIC DATA					OCTAVE BAND, dB						
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps	NOM DUCT		DUCT AREA	NECK VEL	AIRFLOW	Ps	2	3	4	5	6	7		
in	ft ²	FPM	CFM	"WG	mm		m ²	m/s	L/s	Pa								
30" x 12"	2.50	500	1143	-0.38	12	762 x 305	0.23	2.54	539	-9.4	32	23	25	24	23	11		
		675	1542	-0.68	22			3.43	728	-17.0	38	31	33	32	33	25		
		850	1942	-1.09	29			4.32	917	-27.0	43	37	38	39	40	36		
		1025	2342	-1.58	35			5.21	1105	-39.3	47	43	43	44	46	45		
		1200	2742	-2.16	41			6.10	1294	-53.9	50	47	47	48	52	53		
20" x 20"	2.78	500	1287	-0.38	12	508 x 508	0.26	2.54	607	-9.4	33	23	26	25	23	11		
		675	1737	-0.68	22			3.43	820	-17.0	39	31	33	33	33	26		
		850	2187	-1.09	30			4.32	1032	-27.0	44	38	39	39	41	37		
		1025	2638	-1.58	36			5.21	1245	-39.3	48	43	43	44	47	46		
		1200	3088	-2.16	41			6.10	1457	-53.9	51	47	47	48	52	54		
30" x 16"	3.33	500	1549	-0.38	13	762 x 406	0.31	2.54	731	-9.4	33	24	26	26	24	12		
		675	2091	-0.68	23			3.43	987	-17.0	40	32	34	34	34	26		
		850	2633	-1.09	30			4.32	1243	-27.0	44	39	39	40	41	38		
		1025	3175	-1.58	37			5.21	1498	-39.3	48	44	44	45	48	47		
		1200	3717	-2.16	42			6.10	1754	-53.9	52	48	48	49	53	54		
36" x 14"	3.50	500	1622	-0.38	13	914 x 356	0.33	2.54	765	-9.4	33	24	26	26	24	12		
		675	2189	-0.68	23			3.43	1033	-17.0	40	32	34	34	34	27		
		850	2757	-1.09	31			4.32	1301	-27.0	45	39	40	40	42	38		
		1025	3325	-1.58	37			5.21	1569	-39.3	48	44	44	45	48	47		
		1200	3892	-2.16	42			6.10	1837	-53.9	52	48	48	49	53	54		
30" x 18"	3.75	500	1752	-0.38	13	762 x 457	0.35	2.54	827	-9.4	34	24	27	26	24	12		
		675	2365	-0.68	23			3.43	1116	-17.0	40	33	34	34	34	27		
		850	2978	-1.09	31			4.32	1406	-27.0	45	39	40	40	42	38		
		1025	3592	-1.58	37			5.21	1695	-39.3	49	44	44	45	48	47		
		1200	4205	-2.16	42			6.10	1984	-53.9	52	49	48	50	53	55		
36" x 18"	4.50	500	2111	-0.38	14	914 x 457	0.42	2.54	996	-9.4	34	25	28	27	25	13		
		675	2850	-0.68	24			3.43	1345	-17.0	41	33	35	35	35	28		
		850	3589	-1.09	32			4.32	1694	-27.0	46	40	41	41	43	39		
		1025	4328	-1.58	38			5.21	2043	-39.3	50	45	45	46	49	48		
		1200	5067	-2.16	43			6.10	2391	-53.9	53	49	49	50	54	55		
42" x 18"	5.25	500	2471	-0.38	15	1067 x 457	0.49	2.54	1166	-9.4	35	26	28	27	26	14		
		650	3212	-0.63	23			3.30	1516	-15.8	41	33	35	34	34	26		
		800	3953	-0.96	30			4.06	1866	-23.9	45	39	40	40	41	36		
		950	4694	-1.36	36			4.83	2215	-33.8	49	43	44	45	47	45		
		1100	5436	-1.82	41			5.59	2565	-45.3	52	47	48	49	52	52		
30" x 28"	5.83	500	2768	-0.38	15	762 x 711	0.54	2.54	1306	-9.4	36	26	29	28	26	14		
		650	3598	-0.63	24			3.30	1698	-15.8	41	33	35	35	35	27		
		800	4428	-0.96	31			4.06	2090	-23.9	45	39	40	40	42	37		
		950	5258	-1.36	36			4.83	2482	-33.8	49	44	44	45	47	45		
		1100	6089	-1.82	41			5.59	2874	-45.3	52	48	48	49	52	52		
30" x 30"	6.25	500	2971	-0.38	15	762 x 762	0.58	2.54	1402	-9.4	36	26	29	28	26	14		
		650	3862	-0.63	24			3.30	1823	-15.8	41	34	35	35	35	27		
		800	4753	-0.96	31			4.06	2243	-23.9	46	39	40	41	42	37		
		950	5644	-1.36	37			4.83	2664	-33.8	49	44	45	45	48	46		
		1100	6536	-1.82	42			5.59	3084	-45.3	52	48	48	49	53	53		
46" x 22"	7.03	500	3339	-0.38	16	1168 x 559	0.65	2.54	1576	-9.4	36	27	29	29	27	15		
		650	4340	-0.63	25			3.30	2048	-15.8	42	34	36	36	35	28		
		800	5342	-0.96	31			4.06	2521	-23.9	46	40	41	41	42	38		
		950	6344	-1.36	37			4.83	2994	-33.8	50	45	45	46	48	46		
		1100	7345	-1.82	42			5.59	3467	-45.3	53	49	49	50	53	53		
36" x 30"	7.50	500	3580	-0.38	16	914 x 762	0.70	2.54	1690	-9.4	37	27	30	29	27	15		
		650	4654	-0.63	25			3.30	2196	-15.8	42	34	36	36	36	28		
		800	5728	-0.96	32			4.06	2703	-23.9	46	40	41	41	43	38		
		950	6802	-1.36	37			4.83	3210	-33.8	50	45	45	46	48	46		
		1100	7876	-1.82	42			5.59	3717	-45.3	53	49	49	50	53	53		

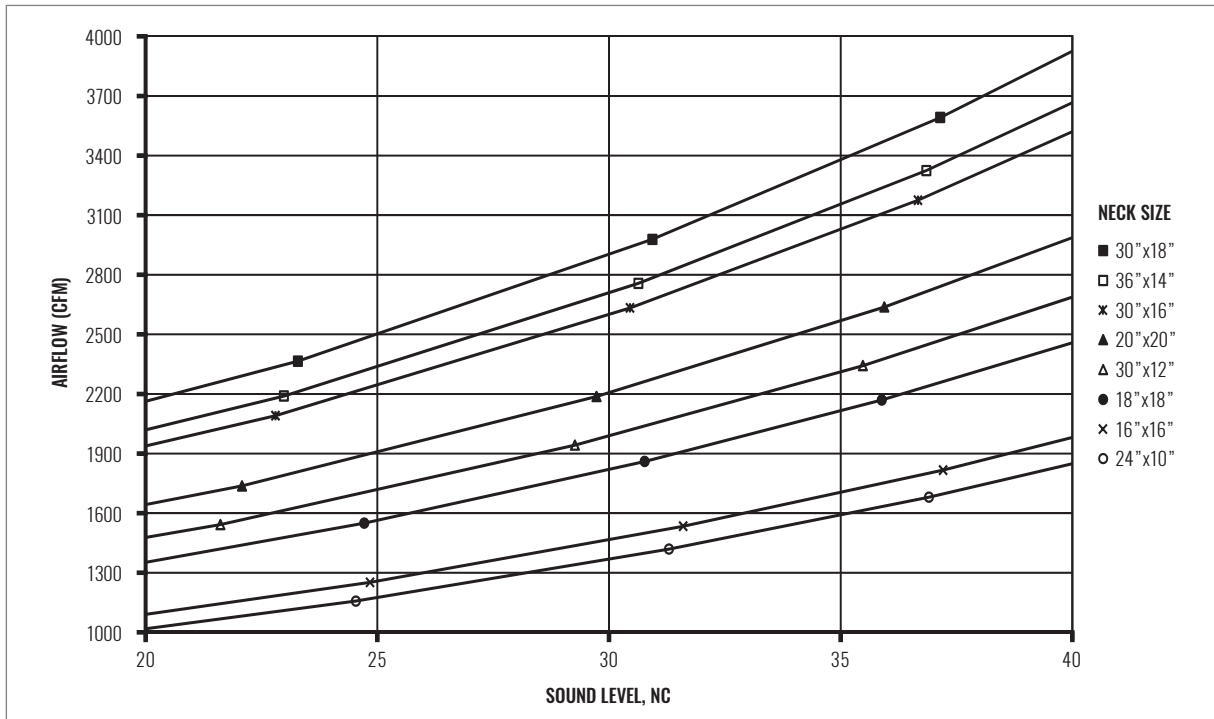
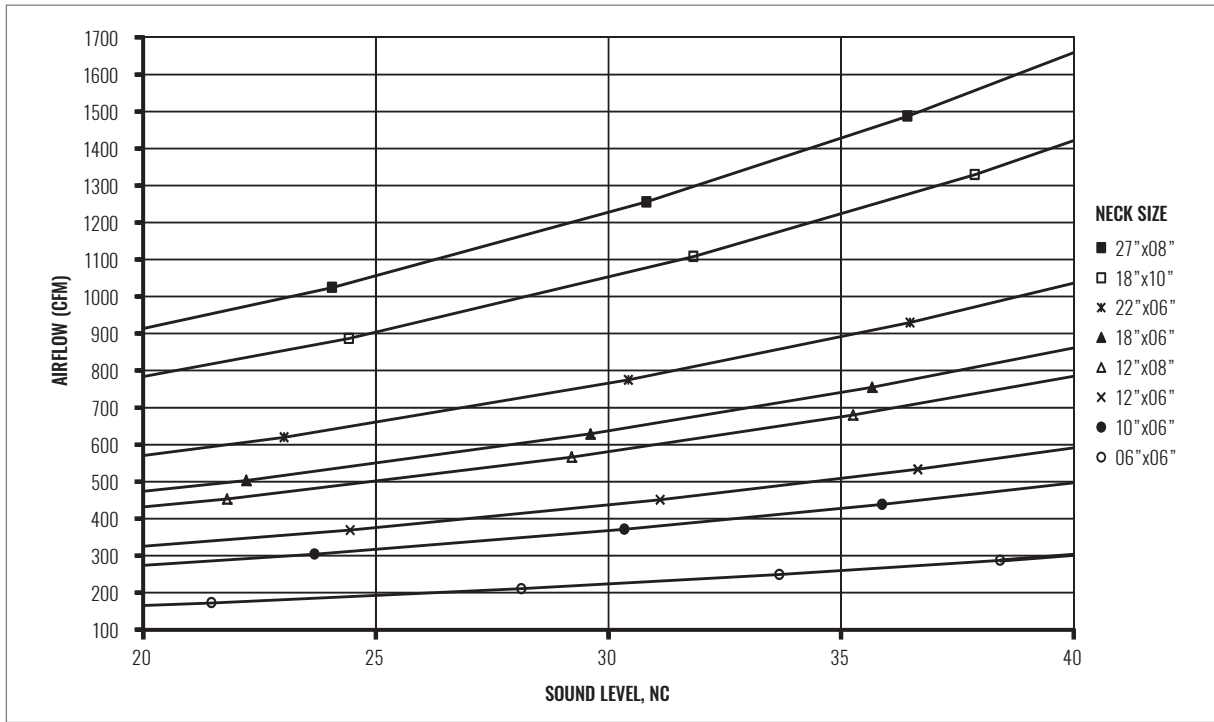
NOTE: See notes on page J1-123.

PERFORMANCE DATA | EG10, EGC10 (NO DAMPER)

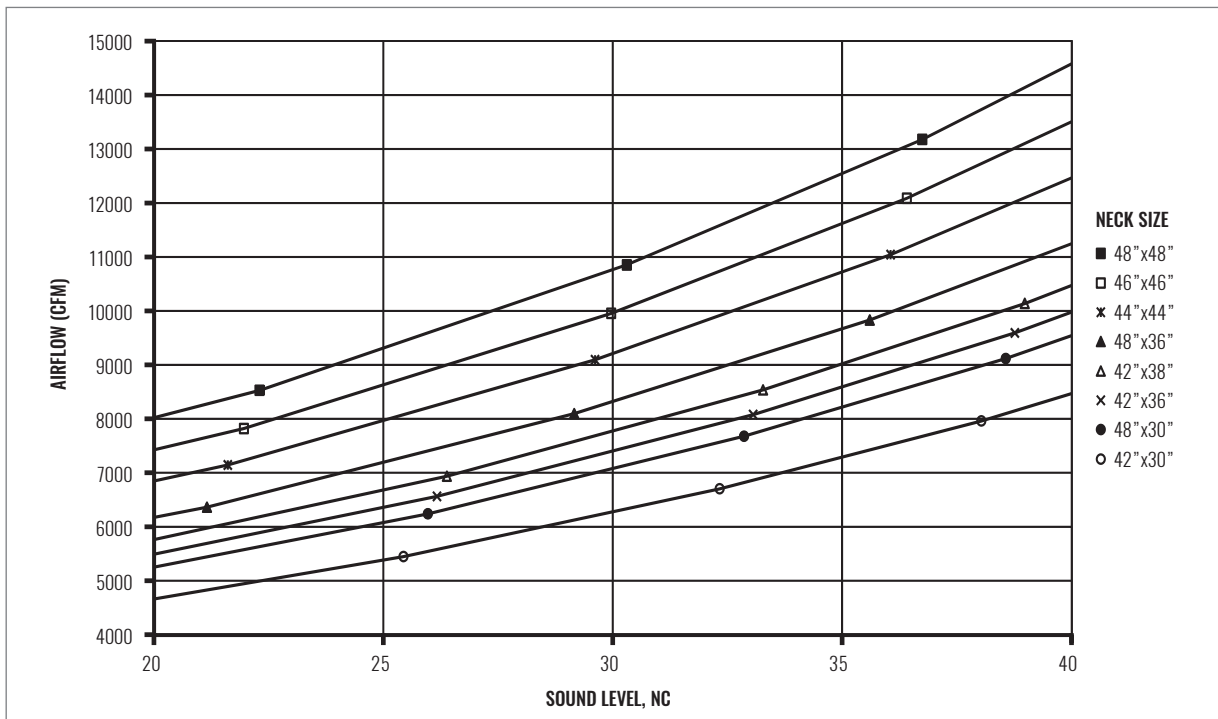
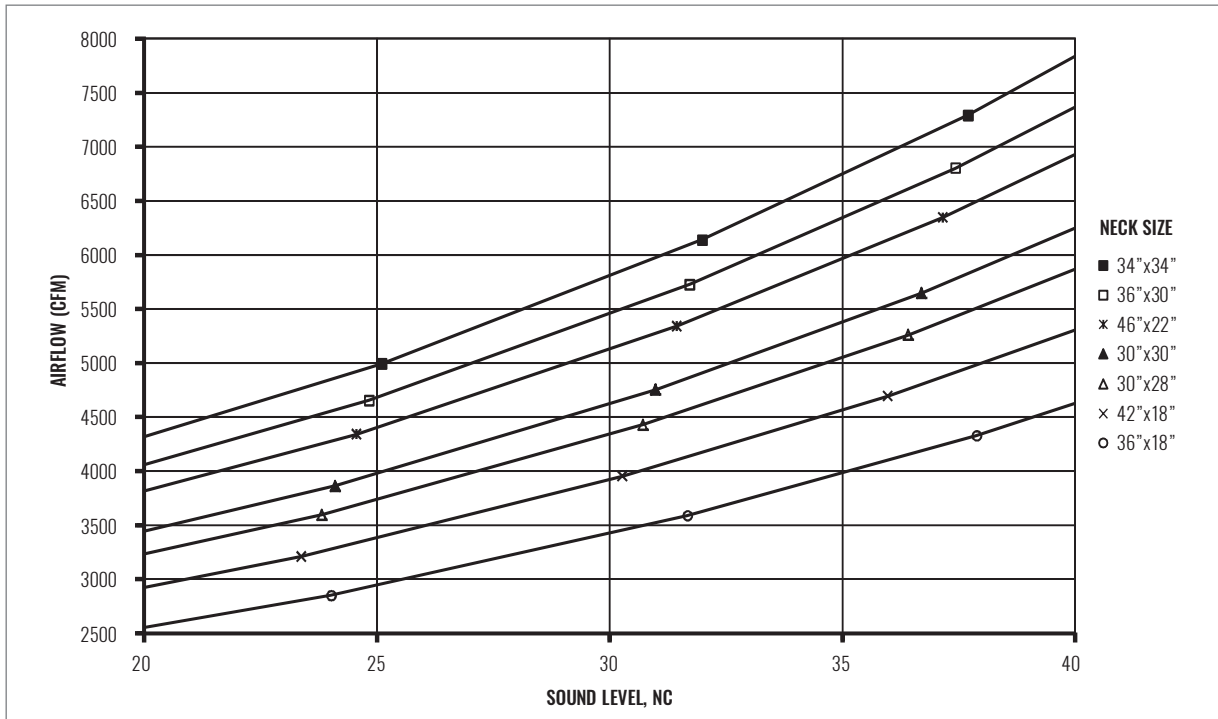
IP DATA					NC	METRIC DATA					OCTAVE BAND, dB						
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps		NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps	OCTAVE BAND, dB						
in	ft ²	FPM	CFM	"WG		mm	m ²	m/s	L/s	Pa	2	3	4	5	6	7	
34" x 34"	8.03	500	3839	-0.38	16	864 x 864	0.75	2.54	1812	-9.4	37	27	30	29	27	15	
		650	4990	-0.63	25			3.30	2355	-15.8	42	35	36	36	36	28	
		800	6142	-0.96	32			4.06	2899	-23.9	47	40	41	42	43	38	
		950	7294	-1.36	38			4.83	3442	-33.8	50	45	46	46	49	47	
		1100	8445	-1.82	43			5.59	3986	-45.3	53	49	49	50	54	54	
42" x 30"	8.75	500	4189	-0.38	17	1067 x 762	0.81	2.54	1977	-9.4	37	28	30	29	28	16	
		650	5446	-0.63	25			3.30	2570	-15.8	43	35	37	37	36	28	
		800	6703	-0.96	32			4.06	3164	-23.9	47	41	42	42	43	39	
		950	7960	-1.36	38			4.83	3757	-33.8	51	45	46	47	49	47	
		1100	9217	-1.82	43			5.59	4350	-45.3	54	50	50	51	54	54	
48" x 30"	10.00	500	4799	-0.38	17	1219 x 762	0.93	2.54	2265	-9.4	38	28	31	30	28	16	
		650	6238	-0.63	26			3.30	2944	-15.8	43	36	37	37	37	29	
		800	7678	-0.96	33			4.06	3624	-23.9	48	41	42	43	44	39	
		950	9118	-1.36	39			4.83	4303	-33.8	51	46	47	47	50	47	
		1100	10557	-1.82	43			5.59	4983	-45.3	54	50	50	51	54	54	
42" x 36"	10.50	500	5049	-0.38	17	1067 x 914	0.98	2.54	2383	-9.4	38	29	31	30	28	17	
		650	6563	-0.63	26			3.30	3098	-15.8	43	36	37	37	37	29	
		800	8078	-0.96	33			4.06	3812	-23.9	48	41	43	43	44	39	
		950	9593	-1.36	39			4.83	4527	-33.8	51	46	47	47	50	48	
		1100	11107	-1.82	44			5.59	5242	-45.3	54	50	50	51	55	55	
42" x 38"	11.08	500	5335	-0.38	18	1067 x 965	1.03	2.54	2518	-9.4	38	29	31	30	29	17	
		650	6936	-0.63	26			3.30	3273	-15.8	44	36	38	37	37	29	
		800	8536	-0.96	33			4.06	4029	-23.9	48	42	43	43	44	39	
		950	10137	-1.36	39			4.83	4784	-33.8	52	46	47	48	50	48	
		1100	11738	-1.82	44			5.59	5540	-45.3	55	50	51	52	55	55	
48" x 36"	12.00	400	4627	-0.24	11	1219 x 914	1.11	2.03	2183	-6.0	34	23	26	25	21	-	
		550	6362	-0.45	21			2.79	3002	-11.3	40	32	34	33	32	22	
		700	8096	-0.74	29			3.56	3821	-18.3	45	38	40	40	40	33	
		850	9831	-1.09	36			4.32	4640	-27.0	50	44	45	45	47	43	
		1000	11566	-1.50	41			5.08	5459	-37.4	53	48	49	49	52	51	
44" x 44"	13.44	400	5196	-0.24	11	1118 x 1118	1.25	2.03	2452	-6.0	34	23	26	25	22	-	
		550	7145	-0.45	22			2.79	3372	-11.3	41	32	34	34	33	22	
		700	9093	-0.74	30			3.56	4291	-18.3	46	39	40	40	41	34	
		850	11042	-1.09	36			4.32	5211	-27.0	50	44	45	45	47	43	
		1000	12990	-1.50	41			5.08	6131	-37.4	53	49	49	50	52	51	
46" x 46"	14.69	400	5688	-0.24	11	1168 x 1168	1.37	2.03	2684	-6.0	35	24	27	26	22	-	
		550	7821	-0.45	22			2.79	3691	-11.3	41	32	35	34	33	22	
		700	9953	-0.74	30			3.56	4697	-18.3	46	39	41	41	41	34	
		850	12086	-1.09	36			4.32	5704	-27.0	50	44	45	46	47	44	
		1000	14219	-1.50	42			5.08	6711	-37.4	54	49	49	50	53	51	
48" x 48"	16.00	400	6202	-0.24	12	1219 x 1219	1.49	2.03	2927	-6.0	35	24	27	26	23	-	
		550	8527	-0.45	22			2.79	4024	-11.3	42	33	35	34	33	23	
		700	10853	-0.74	30			3.56	5122	-18.3	47	39	41	41	41	34	
		850	13178	-1.09	37			4.32	6219	-27.0	51	45	46	46	48	44	
		1000	15504	-1.50	42			5.08	7317	-37.4	54	49	50	50	53	52	

NOTES: NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

SOUND CHARTS | EG15, EGC15 (NO DAMPER)



SOUND CHARTS | EG15, EGC15 (NO DAMPER)



GRILLES | RETURN

EG & EGC SERIES

Return Grille | Egg-Crate



PERFORMANCE DATA | EG15, EGC15 (NO DAMPER)

		IP DATA				NC	METRIC DATA					OCTAVE BAND, dB						
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps	NOM DUCT		DUCT AREA	NECK VEL	AIRFLOW	Ps	2	3	4	5	6	7		
in	ft ²	FPM	CFM	"WG	mm	m ²	m/s	L/s	Pa									
6" x 6"	0.25	700	134	-0.74	13	152 x 152	0.02	3.56	63	-18.3	29	22	24	24	24	17		
		900	172	-1.22	21			4.57	81	-30.3	35	29	30	30	32	29		
		1100	211	-1.82	28			5.59	99	-45.3	39	35	35	36	39	39		
		1300	249	-2.54	34			6.60	117	-63.2	42	39	39	40	45	47		
		1500	287	-3.38	38			7.62	136	-84.2	45	43	43	44	49	54		
10" x 6"	0.42	700	236	-0.74	15	254 x 152	0.04	3.56	111	-18.3	32	25	26	26	26	20		
		900	304	-1.22	24			4.57	143	-30.3	37	31	32	33	35	32		
		1100	371	-1.82	30			5.59	175	-45.3	41	37	37	38	41	41		
		1300	438	-2.54	36			6.60	207	-63.2	45	42	41	43	47	49		
		1500	506	-3.38	41			7.62	239	-84.2	48	46	45	46	52	56		
12" x 6"	0.50	700	287	-0.74	16	305 x 152	0.05	3.56	136	-18.3	32	25	27	27	27	20		
		900	369	-1.22	24			4.57	174	-30.3	38	32	33	33	35	32		
		1100	451	-1.82	31			5.59	213	-45.3	42	38	38	39	42	42		
		1300	533	-2.54	37			6.60	252	-63.2	45	42	42	43	48	50		
		1500	615	-3.38	41			7.62	290	-84.2	48	46	46	47	52	57		
12" x 8"	0.67	600	340	-0.54	12	305 x 203	0.06	3.05	160	-13.5	30	22	24	24	23	14		
		800	453	-0.96	22			4.06	214	-23.9	36	30	31	32	33	28		
		1000	566	-1.50	29			5.08	267	-37.4	41	36	37	38	40	39		
		1200	680	-2.16	35			6.10	321	-53.9	45	41	41	42	46	48		
		1400	793	-2.94	40			7.11	374	-73.3	48	46	45	47	51	55		
18" x 6"	0.75	600	377	-0.54	13	457 x 152	0.07	3.05	178	-13.5	31	23	25	24	24	15		
		800	503	-0.96	22			4.06	237	-23.9	37	31	32	32	33	28		
		1000	629	-1.50	30			5.08	297	-37.4	42	37	37	38	41	39		
		1200	755	-2.16	36			6.10	356	-53.9	45	42	42	43	47	48		
		1400	880	-2.94	41			7.11	416	-73.3	49	46	45	47	52	56		
22" x 6"	0.92	600	465	-0.54	13	559 x 152	0.09	3.05	219	-13.5	32	24	25	25	24	15		
		800	620	-0.96	23			4.06	293	-23.9	38	31	32	33	34	29		
		1000	775	-1.50	30			5.08	366	-37.4	42	38	38	39	41	40		
		1200	930	-2.16	36			6.10	439	-53.9	46	43	42	44	48	49		
		1400	1085	-2.94	42			7.11	512	-73.3	49	47	46	48	53	56		
18" x 10"	1.25	600	665	-0.54	15	457 x 254	0.12	3.05	314	-13.5	33	25	27	26	26	17		
		800	886	-0.96	24			4.06	418	-23.9	39	33	34	34	35	31		
		1000	1108	-1.50	32			5.08	523	-37.4	44	39	39	40	43	41		
		1200	1330	-2.16	38			6.10	628	-53.9	48	44	44	45	49	50		
		1400	1551	-2.94	43			7.11	732	-73.3	51	48	48	49	54	58		
27" x 8"	1.50	600	793	-0.54	16	686 x 203	0.14	3.05	374	-13.5	34	26	27	27	26	17		
		775	1024	-0.90	24			3.94	483	-22.5	39	33	34	34	35	30		
		950	1256	-1.36	31			4.83	593	-33.8	43	38	39	39	42	40		
		1125	1487	-1.90	36			5.72	702	-47.3	47	43	43	44	47	48		
		1300	1718	-2.54	41			6.60	811	-63.2	50	47	47	48	52	55		
24" x 10"	1.67	600	896	-0.54	16	610 x 254	0.15	3.05	423	-13.5	34	26	28	28	27	18		
		775	1157	-0.90	25			3.94	546	-22.5	40	33	34	35	35	30		
		950	1419	-1.36	31			4.83	670	-33.8	44	39	39	40	42	40		
		1125	1680	-1.90	37			5.72	793	-47.3	47	43	43	45	48	48		
		1300	1942	-2.54	42			6.60	916	-63.2	50	47	47	48	53	55		
16" x 16"	1.78	600	969	-0.54	16	406 x 406	0.17	3.05	457	-13.5	35	26	28	28	27	18		
		775	1252	-0.90	25			3.94	591	-22.5	40	33	35	35	36	31		
		950	1534	-1.36	32			4.83	724	-33.8	44	39	40	40	43	40		
		1125	1817	-1.90	37			5.72	857	-47.3	48	44	44	45	48	49		
		1300	2100	-2.54	42			6.60	991	-63.2	51	48	47	49	53	56		
18" x 18"	2.25	600	1240	-0.54	17	457 x 457	0.21	3.05	585	-13.5	35	27	29	29	28	19		
		750	1550	-0.85	25			3.81	731	-21.0	40	34	35	35	36	30		
		900	1860	-1.22	31			4.57	878	-30.3	44	39	39	40	42	39		
		1050	2170	-1.66	36			5.33	1024	-41.2	47	43	43	44	47	46		
		1200	2480	-2.16	40			6.10	1170	-53.9	50	46	46	48	51	53		

NOTE: See notes on page J1-128.

PERFORMANCE DATA | EG15, EGC15 (NO DAMPER)

IP DATA					NC	METRIC DATA					OCTAVE BAND, dB						
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps		NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps	OCTAVE BAND, dB						
in	ft ²	FPM	CFM	"WG		mm	m ²	m/s	L/s	Pa	2	3	4	5	6	7	
30" x 12"	2.50	500	1143	-0.38	12	762 x 305	0.23	2.54	539	-9.4	32	23	25	24	23	11	
		675	1542	-0.68	22			3.43	728	-17.0	38	31	33	32	33	25	
		850	1942	-1.09	29			4.32	917	-27.0	43	37	38	39	40	36	
		1025	2342	-1.58	35			5.21	1105	-39.3	47	43	43	44	46	45	
		1200	2742	-2.16	41			6.10	1294	-53.9	50	47	47	48	52	53	
20" x 20"	2.78	500	1287	-0.38	12	508 x 508	0.26	2.54	607	-9.4	33	23	26	25	23	11	
		675	1737	-0.68	22			3.43	820	-17.0	39	31	33	33	33	26	
		850	2187	-1.09	30			4.32	1032	-27.0	44	38	39	39	41	37	
		1025	2638	-1.58	36			5.21	1245	-39.3	48	43	43	44	47	46	
		1200	3088	-2.16	41			6.10	1457	-53.9	51	47	47	48	52	54	
30" x 16"	3.33	500	1549	-0.38	13	762 x 406	0.31	2.54	731	-9.4	33	24	26	26	24	12	
		675	2091	-0.68	23			3.43	987	-17.0	40	32	34	34	34	26	
		850	2633	-1.09	30			4.32	1243	-27.0	44	39	39	40	41	38	
		1025	3175	-1.58	37			5.21	1498	-39.3	48	44	44	45	48	47	
		1200	3717	-2.16	42			6.10	1754	-53.9	52	48	48	49	53	54	
36" x 14"	3.50	500	1622	-0.38	13	914 x 356	0.33	2.54	765	-9.4	33	24	26	26	24	12	
		675	2189	-0.68	23			3.43	1033	-17.0	40	32	34	34	34	27	
		850	2757	-1.09	31			4.32	1301	-27.0	45	39	40	40	42	38	
		1025	3325	-1.58	37			5.21	1569	-39.3	48	44	44	45	48	47	
		1200	3892	-2.16	42			6.10	1837	-53.9	52	48	48	49	53	54	
30" x 18"	3.75	500	1752	-0.38	13	762 x 457	0.35	2.54	827	-9.4	34	24	27	26	24	12	
		675	2365	-0.68	23			3.43	1116	-17.0	40	33	34	34	34	27	
		850	2978	-1.09	31			4.32	1406	-27.0	45	39	40	40	42	38	
		1025	3592	-1.58	37			5.21	1695	-39.3	49	44	44	45	48	47	
		1200	4205	-2.16	42			6.10	1984	-53.9	52	49	48	50	53	55	
36" x 18"	4.50	500	2111	-0.38	14	914 x 457	0.42	2.54	996	-9.4	34	25	28	27	25	13	
		675	2850	-0.68	24			3.43	1345	-17.0	41	33	35	35	35	28	
		850	3589	-1.09	32			4.32	1694	-27.0	46	40	41	41	43	39	
		1025	4328	-1.58	38			5.21	2043	-39.3	50	45	45	46	49	48	
		1200	5067	-2.16	43			6.10	2391	-53.9	53	49	49	50	54	55	
42" x 18"	5.25	500	2471	-0.38	15	1067 x 457	0.49	2.54	1166	-9.4	35	26	28	27	26	14	
		650	3212	-0.63	23			3.30	1516	-15.8	41	33	35	34	34	26	
		800	3953	-0.96	30			4.06	1866	-23.9	45	39	40	40	41	36	
		950	4694	-1.36	36			4.83	2215	-33.8	49	43	44	45	47	45	
		1100	5436	-1.82	41			5.59	2565	-45.3	52	47	48	49	52	52	
30" x 28"	5.83	500	2768	-0.38	15	762 x 711	0.54	2.54	1306	-9.4	36	26	29	28	26	14	
		650	3598	-0.63	24			3.30	1698	-15.8	41	33	35	35	35	27	
		800	4428	-0.96	31			4.06	2090	-23.9	45	39	40	40	42	37	
		950	5258	-1.36	36			4.83	2482	-33.8	49	44	44	45	47	45	
		1100	6089	-1.82	41			5.59	2874	-45.3	52	48	48	49	52	52	
30" x 30"	6.25	500	2971	-0.38	15	762 x 762	0.58	2.54	1402	-9.4	36	26	29	28	26	14	
		650	3862	-0.63	24			3.30	1823	-15.8	41	34	35	35	35	27	
		800	4753	-0.96	31			4.06	2243	-23.9	46	39	40	41	42	37	
		950	5644	-1.36	37			4.83	2664	-33.8	49	44	45	45	48	46	
		1100	6536	-1.82	42			5.59	3084	-45.3	52	48	48	49	53	53	
46" x 22"	7.03	500	3339	-0.38	16	1168 x 559	0.65	2.54	1576	-9.4	36	27	29	29	27	15	
		650	4340	-0.63	25			3.30	2048	-15.8	42	34	36	36	35	28	
		800	5342	-0.96	31			4.06	2521	-23.9	46	40	41	41	42	38	
		950	6344	-1.36	37			4.83	2994	-33.8	50	45	45	46	48	46	
		1100	7345	-1.82	42			5.59	3467	-45.3	53	49	49	50	53	53	
36" x 30"	7.50	500	3580	-0.38	16	914 x 762	0.70	2.54	1690	-9.4	37	27	30	29	27	15	
		650	4654	-0.63	25			3.30	2196	-15.8	42	34	36	36	36	28	
		800	5728	-0.96	32			4.06	2703	-23.9	46	40	41	41	43	38	
		950	6802	-1.36	37			4.83	3210	-33.8	50	45	45	46	48	46	
		1100	7876	-1.82	42			5.59	3717	-45.3	53	49	49	50	53	53	

NOTE: See notes on page J1-128.

EG & EGC SERIES

Return Grille | Egg-Crate



PERFORMANCE DATA | EG15, EGC15 (NO DAMPER)

		IP DATA				NC	METRIC DATA					OCTAVE BAND, dB						
NOM DUCT	DUCT AREA	NECK VEL	AIRFLOW	Ps	NOM DUCT		DUCT AREA	NECK VEL	AIRFLOW	Ps	2	3	4	5	6	7		
in	ft ²	FPM	CFM	"WG	mm		m ²	m/s	L/s	Pa								
34" x 34"	8.03	500	3839	-0.38	16	864 x 864	0.75	2.54	1812	-9.4	37	27	30	29	27	15		
		650	4990	-0.63	25			3.30	2355	-15.8	42	35	36	36	36	28		
		800	6142	-0.96	32			4.06	2899	-23.9	47	40	41	42	43	38		
		950	7294	-1.36	38			4.83	3442	-33.8	50	45	46	46	49	47		
		1100	8445	-1.82	43			5.59	3986	-45.3	53	49	49	50	54	54		
42" x 30"	8.75	500	4189	-0.38	17	1067 x 762	0.81	2.54	1977	-9.4	37	28	30	29	28	16		
		650	5446	-0.63	25			3.30	2570	-15.8	43	35	37	37	36	28		
		800	6703	-0.96	32			4.06	3164	-23.9	47	41	42	42	43	39		
		950	7960	-1.36	38			4.83	3757	-33.8	51	45	46	47	49	47		
		1100	9217	-1.82	43			5.59	4350	-45.3	54	50	50	51	54	54		
48" x 30"	10.00	500	4799	-0.38	17	1219 x 762	0.93	2.54	2265	-9.4	38	28	31	30	28	16		
		650	6238	-0.63	26			3.30	2944	-15.8	43	36	37	37	29			
		800	7678	-0.96	33			4.06	3624	-23.9	48	41	42	43	44	39		
		950	9118	-1.36	39			4.83	4303	-33.8	51	46	47	47	50	47		
		1100	10557	-1.82	43			5.59	4983	-45.3	54	50	50	51	54	54		
42" x 36"	10.50	500	5049	-0.38	17	1067 x 914	0.98	2.54	2383	-9.4	38	29	31	30	28	17		
		650	6563	-0.63	26			3.30	3098	-15.8	43	36	37	37	29			
		800	8078	-0.96	33			4.06	3812	-23.9	48	41	43	43	44	39		
		950	9593	-1.36	39			4.83	4527	-33.8	51	46	47	47	50	48		
		1100	11107	-1.82	44			5.59	5242	-45.3	54	50	50	51	55	55		
42" x 38"	11.08	500	5335	-0.38	18	1067 x 965	1.03	2.54	2518	-9.4	38	29	31	30	29	17		
		650	6936	-0.63	26			3.30	3273	-15.8	44	36	38	37	29			
		800	8536	-0.96	33			4.06	4029	-23.9	48	42	43	43	44	39		
		950	10137	-1.36	39			4.83	4784	-33.8	52	46	47	48	50	48		
		1100	11738	-1.82	44			5.59	5540	-45.3	55	50	51	52	55	55		
48" x 36"	12.00	400	4627	-0.24	11	1219 x 914	1.11	2.03	2183	-6.0	34	23	26	25	21	-		
		550	6362	-0.45	21			2.79	3002	-11.3	40	32	34	33	32	22		
		700	8096	-0.74	29			3.56	3821	-18.3	45	38	40	40	40	33		
		850	9831	-1.09	36			4.32	4640	-27.0	50	44	45	45	47	43		
		1000	11566	-1.50	41			5.08	5459	-37.4	53	48	49	49	52	51		
44" x 44"	13.44	400	5196	-0.24	11	1118 x 1118	1.25	2.03	2452	-6.0	34	23	26	25	22	-		
		550	7145	-0.45	22			2.79	3372	-11.3	41	32	34	34	33	22		
		700	9093	-0.74	30			3.56	4291	-18.3	46	39	40	40	41	34		
		850	11042	-1.09	36			4.32	5211	-27.0	50	44	45	45	47	43		
		1000	12990	-1.50	41			5.08	6131	-37.4	53	49	49	50	52	51		
46" x 46"	14.69	400	5688	-0.24	11	1168 x 1168	1.37	2.03	2684	-6.0	35	24	27	26	23	-		
		550	7821	-0.45	22			2.79	3691	-11.3	41	32	35	34	33	22		
		700	9953	-0.74	30			3.56	4697	-18.3	46	39	41	41	41	34		
		850	12086	-1.09	36			4.32	5704	-27.0	50	44	45	46	47	44		
		1000	14219	-1.50	42			5.08	6711	-37.4	54	49	49	50	53	51		
48" x 48"	16.00	400	6202	-0.24	12	1219 x 1219	1.49	2.03	2927	-6.0	35	24	27	26	23	-		
		550	8527	-0.45	22			2.79	4024	-11.3	42	33	35	34	33	23		
		700	10853	-0.74	30			3.56	5122	-18.3	47	39	41	41	41	34		
		850	13178	-1.09	37			4.32	6219	-27.0	51	45	46	46	48	44		
		1000	15504	-1.50	42			5.08	7317	-37.4	54	49	50	50	53	52		

NOTES: NC values are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Dash in space denotes a NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

ENGINEERING SPECIFICATION & CONFIGURATION
EG5, EG10, EG15

The return grille shall be a Krueger model EG. This grille must have a free area of at least 90% for the following core styles: 1/2"x1/2"x1/2" (EG5), 1"x1"x1" (EG10), and 1/2"x1/2"x1" (EG15). The channel frame of the grille must be constructed of extruded aluminum with a thickness of 0.04" - 0.05" and provide a means for duct and or damper attachment (or no frame for core only). This frame must produce a border of 3/8" around all sides of the grille.

PERFORMANCE

The manufacturer shall provide published (printed or electronic) performance data for the diffuser. Performance data shall include 2 - 7 octave band sound power levels. The diffuser shall be tested in accordance to the data standards at the time of product introduction or ANSI/ASHRAE Standard 70.

FINISH

The paint finish shall be #44 British White and be an anodic acrylic paint, baked at 315°F for 30 minutes. The paint thickness shall be 0.8 - 1.0 mils, gloss at 60° per ASTM D523-89 of 50 - 85%, pencil hardness per ASTM D3363-92A of HB - H, crosshatch adhesion per ASTM D3359-83 of 4B - 5B, impact per ASTM D2794-93 of direct impact >100 in/lb and reverse impact >80 in/lb, salt spray per ASTM B117-9048 of 96 hours, humidity per ASTM D2247-92 of >500 hours and water soak per ASTM D870-92 of 250 hours.

1. SERIES: (XXXX)

EG5 - 1/2"x1/2"x1/2" core
 EG10 - 1"x1"x1" core
 EG15 - 1/2"x1/2"x1" core

2. WIDTH: (XX) *

4" - 48" in 1" increments

3. HEIGHT: (XX) *

4" - 48" in 1" increments

4. FRAME STYLE: (XXX)

F23 - Lay-in T-bar (core only)
 FTB - Channel frame for lay-in

5. PANEL: (XX)x(XX) **

12"x12"
 24"x12"
 24"x24"
 12"x48"
 48"x24"

6. FINISH: (XX)

01 - Mill
 10 - Alumican
 35 - Black
 44 - British White

* Choose only if frame style is FTB.

** Choose only if frame style is F23.

ENGINEERING SPECIFICATION & CONFIGURATION

EGC5, EGC10, EGC15

The return grille shall be a Krueger model EGC. This grille must have at least a 90% free area for the following core style: 1/2"x1/2"x1/2" (EGC5), 1"x1"x1" (EGC10), and 1/2"x1/2"x1" (EGC15). The frame of the grille must be constructed of extruded aluminum with a thickness of 0.04" – 0.05" and countersunk screw holes. This frame must also produce a border of 1 1/4" around all sides of the grille with mitered corners that are mechanically staked for rigidity.

OPTION (STEEL FRAME)

Steel frame shall be constructed of 22 gage roll formed steel to produce a 1 1/4" border around all sides of the grille with mitered corners that are assembled with full penetration resistance welds with a reinforcing patch for rigidity.

OPTION (FILTER FRAME)

The return grille shall be a Krueger model EGC5. This grille must have a free area of at least 90% for the 1/2"x1/2"x1/2" core. The frame of the grille must be constructed of extruded aluminum with a thickness of 0.04" – 0.05" and countersunk screw holes. This frame must also produce a border of 1 1/4" around all sides of the grille with mitered corners that are mechanically staked for rigidity. The grille shall have a filter frame to fit standard 1" or 2" filters.

PERFORMANCE

The manufacturer shall provide published (printed or electronic) performance data for the diffuser. Performance data shall include 2 - 7 octave band sound power levels. The diffuser shall be tested in accordance to the data standards at the time of product introduction or ANSI/ASHRAE Standard 70.

FINISH

The paint finish shall be #44 British White applied by an anodic electrocoating process. This process shall include washing, rinsing, applying iron phosphate, sealing and rinsing again. While hanging from an anodic hook, the product will then be dipped into a high performance electrocoating dip. Then the product shall be forced air dried and baked to a peak temperature of 350°F until cured. The overall process shall result to the following film properties: a film thickness of 0.8 – 1.0 mils, gloss at 60° per ASTM D523-89 of 50 – 85%, pencil hardness per ASTM D3363-92A of HB – H, crosshatch adhesion per ASTM D3359-83 of 4B – 5B, impact per ASTM D2794-93 of direct impact >100 in/lb and reverse impact >80 in/lb, salt spray per ASTM B117-9048 of 96 hours, humidity per ASTM D2247-92 of >500 hours and water soak per ASTM D870-92 of 250 hours.

1. SERIES: (XXXXX)

- EGC5 - 1/2"x1/2"x1/2" aluminum core, egg-crate return grille
- EGC10 - 1"x1"x1" aluminum core, egg-crate return grille
- EGC15 - 1/2"x1/2"x1" aluminum core, egg-crate return grille

2. WIDTH: (XX) *

- 6" - 240" in 1/4" increments, aluminum
- 6" - 48" in 1/4" increments, steel

3. HEIGHT: (XX) *

- 4" - 240" in 1/4" increments, aluminum
- 4" - 48" in 1/4" increments, steel

4. FRAME STYLE: (XXX)

- F22 - Surface mount, aluminum
- F23 - Lay-in T-bar, aluminum
- F98 - Narrow-T, 24"x24" only, aluminum **
- S22 - Surface mount, steel frame
- S23 - Lay-in T-bar, steel frame

5. PANEL: (XX)x(XX) †

- | | |
|---------|---------|
| NONE | 12"x12" |
| 12"x24" | 24"x24" |
| 24"x48" | 48"x48" |

6. FASTENING METHOD: (XX)

- 00 - No screw holes
- 01 - Standard screw holes
- 03 - Knurled knob **
- 08 - 1/4 turn fasteners **

7. DAMPER: (XX)

- 00 - No damper
- 01 - Steel opposed blade damper (model OBD)
- 13 - Painted Steel Opposed Blade Damper (model POBD)
- 15 - Aluminum opposed blade damper (model 5OBD)

8. ACCESSORIES: (XX) (XX)

- 00 - No damper
- 01 - Plaster frame
- 04 - 1" Filter frame **
- 05 - 2" Filter frame **
- DS - Debris Screen
- IS - Insect Screen

9. FINISH: (XX)

- | | |
|------------|--------------------|
| 01 - Mill | 10 - Alumican |
| 35 - Black | 44 - British White |

* Max ordered size is 240"x96 or 96"x240" for aluminum, 48"x48" for steel. Units over 48"x48" provided in multiple sections. Minimum width for EGC5 is 6". Minimum width and height for EGC15 is 6".

** Minimum size is 8"x8" and maximum size is 48"x36". (Only available on EGC5.)

† Frame S23 only available with panel sizes 24"x24" and 24"x48".

SAMPLE CONFIGURATION: EGC5 - 12x14 - S22 - NONE - 01 - 01 - 00 - 00 - 44