

PERFORMANCE DATA | SQUARE NECK, 5/16" DIAMETER HOLES ON 7/16" STAGGERED CENTERS

NOM DUCT	IP DATA				SOUND	METRIC DATA				
	NECK VEL	AIR FLOW	Ps	1-CORE THROW		NOM DUCT	NECK VEL	AIR FLOW	Ps	1-CORE THROW
	in	fpm	cfm	in wg		ft	NC	cm	m/s	l/s
6 x 6	200	30	.010	2 - 3 - 7	<20	15.2 x 15.2	1.02	14	2.5	61 - 94 - 213
	300	50	.020	4 - 6 - 11	<20		1.52	24	5.0	122 - 189 - 335
	400	60	.040	5 - 7 - 12	<20		2.03	28	10.0	152 - 220 - 366
	500	80	.060	6 - 9 - 14	22		2.54	38	14.9	183 - 283 - 427
	600	90	.090	7 - 10 - 15	28		3.05	42	22.4	213 - 315 - 457
	700	110	.120	8 - 12 - 17	32		3.56	52	29.9	244 - 378 - 518
8 x 8	200	60	.010	3 - 5 - 10	<20	20.3 x 20.3	1.02	28	2.5	91 - 157 - 305
	300	90	.020	5 - 7 - 15	<20		1.52	42	5.0	152 - 220 - 457
	400	130	.040	7 - 11 - 18	<20		2.03	61	10.0	213 - 346 - 549
	500	160	.060	9 - 13 - 20	25		2.54	76	14.9	274 - 409 - 610
	600	190	.090	10 - 15 - 22	31		3.05	90	22.4	305 - 472 - 671
	700	220	.120	12 - 17 - 24	36		3.56	104	29.9	366 - 535 - 732
10 x 8	200	80	.010	4 - 6 - 11	<20	25.4 x 20.3	1.02	38	2.5	122 - 189 - 335
	300	123	.020	6 - 9 - 17	<20		1.52	58	5.0	183 - 283 - 518
	400	160	.040	8 - 11 - 20	20		2.03	76	10.0	244 - 346 - 610
	500	210	.060	10 - 15 - 23	26		2.54	99	14.9	305 - 472 - 701
	600	250	.090	12 - 18 - 25	32		3.05	118	22.4	366 - 567 - 762
	700	290	.120	14 - 19 - 27	37		3.56	137	29.9	427 - 598 - 823
10 x 10	200	110	.010	5 - 7 - 14	<20	25.4 x 25.4	1.02	52	2.5	152 - 220 - 427
	300	160	.020	7 - 10 - 20	<20		1.52	76	5.0	213 - 315 - 610
	400	210	.040	9 - 13 - 23	21		2.03	99	10.0	274 - 409 - 701
	500	270	.060	11 - 17 - 26	28		2.54	127	14.9	335 - 535 - 792
	600	320	.090	13 - 20 - 29	33		3.05	151	22.4	396 - 630 - 884
	700	370	.120	15 - 22 - 31	38		3.56	175	29.9	457 - 693 - 945
12 x 12	200	160	.010	5 - 8 - 16	<20	30.5 x 30.5	1.02	76	2.5	152 - 252 - 488
	300	240	.020	8 - 12 - 24	<20		1.52	113	5.0	244 - 378 - 732
	400	320	.040	11 - 16 - 29	23		2.03	151	10.0	335 - 504 - 884
	500	400	.060	14 - 20 - 32	29		2.54	189	14.9	427 - 630 - 975
	600	480	.090	16 - 24 - 35	35		3.05	227	22.4	488 - 756 - 1067
	700	560	.120	19 - 27 - 38	40		3.56	264	29.9	579 - 850 - 1158
14 x 14	200	230	.010	7 - 10 - 20	<20	35.6 x 35.6	1.02	109	2.5	213 - 315 - 610
	300	340	.020	10 - 15 - 29	<20		1.52	160	5.0	305 - 472 - 884
	400	450	.040	13 - 19 - 34	24		2.03	212	10.0	396 - 598 - 1036
	500	560	.060	16 - 24 - 38	31		2.54	264	14.9	488 - 756 - 1158
	600	680	.090	20 - 29 - 42	36		3.05	321	22.4	610 - 913 - 1280
	700	790	.120	23 - 32 - 45	41		3.56	373	29.9	701 - 1007 - 1372

NOTES: Throw values are given for terminal velocities of 100, 75, and 50 fpm. Throw values are given for isothermal conditions. NC values are based on Octave Band 2-7 sound power levels minus a room absorption of 10dB. Dash (-) in space denotes an NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.

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NOM DUCT	IP DATA				SOUND	METRIC DATA				
	NECK VEL	AIR FLOW	Ps	1-CORE THROW		NOM DUCT	NECK VEL	AIR FLOW	Ps	1-CORE THROW
	in	fpm	cfm	in wg		ft	NC	cm	m/s	l/s
18 x 14	200	300	.010	8 - 11 - 23	<20	45.7 x 35.6	1.02	142	2.5	244 - 346 - 701
	300	440	.020	11 - 17 - 33	<20		1.52	208	5.0	335 - 535 - 1006
	400	590	.040	15 - 22 - 39	25		2.03	278	10.0	457 - 693 - 1189
	500	740	.060	19 - 28 - 44	32		2.54	349	14.9	579 - 881 - 1341
	600	890	.090	22 - 33 - 48	38		3.05	420	22.4	671 - 1039 - 1463
	700	1040	.120	26 - 37 - 52	42		3.56	491	29.9	792 - 1165 - 1585
18 x 18	200	390	.010	9 - 13 - 26	<20	45.7 x 45.7	1.02	184	2.5	274 - 409 - 792
	300	580	.020	13 - 19 - 38	<20		1.52	274	5.0	396 - 598 - 1158
	400	780	.040	17 - 26 - 45	26		2.03	368	10.0	518 - 818 - 1372
	500	970	.060	21 - 32 - 50	33		2.54	458	14.9	640 - 1007 - 1524
	600	1170	.090	26 - 38 - 55	39		3.05	552	22.4	792 - 1196 - 1676
	700	1360	.120	30 - 42 - 59	43		3.56	642	29.9	914 - 1322 - 1798
20 x 20	200	490	.010	10 - 14 - 29	<20	50.8 x 50.8	1.02	231	2.5	305 - 441 - 884
	300	730	.020	14 - 21 - 43	<20		1.52	345	5.0	427 - 661 - 1311
	400	980	.040	19 - 29 - 50	27		2.03	463	10.0	579 - 913 - 1524
	500	1220	.060	24 - 36 - 56	34		2.54	576	14.9	732 - 1133 - 1707
	600	1460	.090	28 - 43 - 62	40		3.05	689	22.4	853 - 1354 - 1890
	700	1710	.120	33 - 47 - 67	44		3.56	807	29.9	1006 - 1480 - 2042
24 x 24	200	720	.010	12 - 17 - 35	<20	61.0 x 61.0	1.02	340	2.5	366 - 535 - 1067
	300	1080	.020	17 - 26 - 52	20		1.52	510	5.0	518 - 818 - 1585
	400	1440	.040	23 - 35 - 61	29		2.03	680	10.0	701 - 1102 - 1859
	500	1800	.060	29 - 43 - 68	36		2.54	850	14.9	884 - 1354 - 2073
	600	2160	.090	35 - 52 - 75	41		3.05	1019	22.4	1067 - 1637 - 2286
	700	2520	.120	41 - 57 - 81	46		3.56	1189	29.9	1250 - 1794 - 2469
32 x 32	200	1310	.010	16 - 23 - 47	<20	81.3 x 81.3	1.02	618	2.5	488 - 724 - 1433
	300	1970	.020	23 - 35 - 70	23		1.52	930	5.0	701 - 1102 - 2134
	400	2630	.040	31 - 47 - 83	32		2.03	1241	10.0	945 - 1480 - 2530
	500	3280	.060	39 - 59 - 92	38		2.54	1548	14.9	1189 - 1857 - 2804
	600	3940	.090	47 - 70 - 101	44		3.05	1859	22.4	1433 - 2204 - 3078
	700	4600	.120	55 - 77 - 109	49		3.56	2171	29.9	1676 - 2424 - 3322

NOTES: Throw values are given for terminal velocities of 100, 75, and 50 fpm. Throw values are given for isothermal conditions. NC values are based on Octave Band 2-7 sound power levels minus a room absorption of 10dB. Dash (-) in space denotes an NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.

GRILLES | STAINLESS STEEL

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	NECK VEL	AIR FLOW	Ps	1-CORE THROW		NOM DUCT	NECK VEL	AIR FLOW	Ps	1-CORE THROW
	in	fpm	cfm	in wg		ft	NC	cm	m/s	l/s
6	200	20	.010	2 - 3 - 5	<20	15.2	1.02	9	2.5	61 - 94 - 152
	300	40	.020	3 - 5 - 10	<20		1.52	19	5.0	91 - 157 - 305
	400	50	.040	4 - 7 - 11	<20		2.03	24	10.0	122 - 220 - 335
	500	60	.060	5 - 8 - 12	21		2.54	28	14.9	152 - 252 - 366
	600	70	.090	6 - 9 - 13	27		3.05	33	22.4	183 - 283 - 396
	700	90	.120	8 - 11 - 15	31		3.56	42	29.9	244 - 346 - 457
8	200	50	.010	3 - 5 - 9	<20	20.3	1.02	24	2.5	91 - 157 - 274
	300	70	.020	4 - 6 - 13	<20		1.52	33	5.0	122 - 189 - 396
	400	100	.040	6 - 9 - 16	<20		2.03	47	10.0	183 - 283 - 488
	500	120	.060	7 - 11 - 18	24		2.54	57	14.9	213 - 346 - 549
	600	150	.090	9 - 14 - 20	30		3.05	71	22.4	274 - 441 - 610
	700	170	.120	10 - 15 - 21	34		3.56	80	29.9	305 - 472 - 640
10	200	80	.010	4 - 6 - 11	<20	25.4	1.02	38	2.5	122 - 189 - 335
	300	130	.020	6 - 9 - 18	<20		1.52	61	5.0	183 - 283 - 549
	400	170	.040	8 - 12 - 21	20		2.03	80	10.0	244 - 378 - 640
	500	210	.060	10 - 15 - 23	27		2.54	99	14.9	305 - 472 - 701
	600	250	.090	12 - 18 - 25	32		3.05	118	22.4	366 - 567 - 762
	700	290	.120	14 - 19 - 27	37		3.56	137	29.9	427 - 598 - 823
12	200	130	.010	5 - 7 - 15	<20	30.5	1.02	61	2.5	152 - 220 - 457
	300	190	.020	7 - 11 - 22	<20		1.52	90	5.0	213 - 346 - 671
	400	250	.040	10 - 14 - 25	22		2.03	118	10.0	305 - 441 - 762
	500	320	.060	12 - 18 - 29	28		2.54	151	14.9	366 - 567 - 884
	600	380	.090	15 - 22 - 31	34		3.05	179	22.4	457 - 693 - 945
	700	440	.120	17 - 24 - 34	39		3.56	208	29.9	518 - 756 - 1036
14	200	180	.010	6 - 9 - 17	<20	35.6	1.02	85	2.5	183 - 283 - 518
	300	270	.020	9 - 13 - 26	<20		1.52	127	5.0	274 - 409 - 792
	400	350	.040	11 - 17 - 30	23		2.03	165	10.0	335 - 535 - 914
	500	440	.060	14 - 21 - 34	30		2.54	208	14.9	427 - 661 - 1036
	600	530	.090	17 - 26 - 37	35		3.05	250	22.4	518 - 818 - 1128
	700	620	.120	20 - 28 - 40	40		3.56	293	29.9	610 - 881 - 1219

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	NECK VEL	AIR FLOW	Ps	1-CORE THROW		NOM DUCT	NECK VEL	AIR FLOW	Ps	1-CORE THROW
	in	fpm	cfm	in wg		ft	NC	cm	m/s	l/s
16	200	240	.010	7 - 10 - 20	<20	40.6	1.02	113	2.5	213 - 315 - 610
	300	360	.020	10 - 15 - 30	<20		1.52	170	5.0	305 - 472 - 914
	400	470	.040	13 - 20 - 35	24		2.03	222	10.0	396 - 630 - 1067
	500	590	.060	17 - 25 - 39	31		2.54	278	14.9	518 - 787 - 1189
	600	710	.090	20 - 30 - 43	37		3.05	335	22.4	610 - 944 - 1311
	700	830	.120	23 - 33 - 46	41		3.56	392	29.9	701 - 1039 - 1402
18	200	310	.010	8 - 11 - 23	<20	45.7	1.02	146	2.5	244 - 346 - 701
	300	460	.020	11 - 17 - 34	<20		1.52	217	5.0	335 - 535 - 1036
	400	610	.040	15 - 23 - 40	25		2.03	288	10.0	457 - 724 - 1219
	500	770	.060	19 - 28 - 45	32		2.54	363	14.9	579 - 881 - 1372
	600	920	.090	23 - 34 - 49	38		3.05	434	22.4	701 - 1070 - 1494
	700	1070	.120	26 - 37 - 53	42		3.56	505	29.9	792 - 1165 - 1615
20	200	380	.010	8 - 13 - 25	<20	50.8	1.02	179	2.5	244 - 409 - 762
	300	580	.020	13 - 19 - 38	<20		1.52	274	5.0	396 - 598 - 1158
	400	770	.040	17 - 25 - 45	26		2.03	363	10.0	518 - 787 - 1372
	500	960	.060	21 - 32 - 50	33		2.54	453	14.9	640 - 1007 - 1524
	600	1150	.090	25 - 38 - 55	39		3.05	543	22.4	762 - 1196 - 1676
	700	1340	.120	29 - 42 - 59	43		3.56	632	29.9	884 - 1322 - 1798
24	200	560	.010	10 - 15 - 30	<20	61.0	1.02	264	2.5	305 - 472 - 914
	300	850	.020	15 - 23 - 46	<20		1.52	401	5.0	457 - 724 - 1402
	400	1130	.040	20 - 31 - 54	28		2.03	533	10.0	610 - 976 - 1646
	500	1410	.060	26 - 38 - 61	35		2.54	665	14.9	792 - 1196 - 1859
	600	1690	.090	31 - 46 - 66	40		3.05	798	22.4	945 - 1448 - 2012
	700	1980	.120	36 - 51 - 72	45		3.56	934	29.9	1097 - 1605 - 2195

NOTES: Throw values are given for terminal velocities of 100, 75, and 50 fpm. Throw values are given for isothermal conditions. NC values are based on Octave Band 2-7 sound power levels minus a room absorption of 10dB. Dash (-) in space denotes an NC or dB value of less than 10. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70-1991.

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