

ROUND NECKS

		NECK VELOCITY, FPM									
		600	700	800	900	1000	1100	1200	1300	1400	1500
6" \emptyset	CFM	120	140	160	180	200	220	240	260	270	290
	-Ps	.02	.03	.04	.05	.07	.08	.09	.11	.12	.14
	NC	<20	<20	<20	20	23	25	27	29	29	31
7" \emptyset	CFM	160	190	210	240	270	290	320	350	370	400
	-Ps	.03	.04	.05	.06	.08	.09	.11	.13	.14	.17
	NC	<20	<20	<20	21	24	25	28	30	31	33
8" \emptyset	CFM	210	240	280	310	350	380	420	450	490	520
	-Ps	.03	.04	.05	.06	.08	.09	.11	.13	.15	.17
	NC	<20	<20	<20	21	24	26	28	30	32	33
9" \emptyset	CFM	270	310	350	400	440	490	530	570	620	660
	-Ps	.04	.05	.06	.08	.10	.12	.14	.16	.19	.22
	NC	<20	<20	<20	23	25	28	29	31	33	35
10" \emptyset	CFM	330	380	440	490	550	600	650	710	760	820
	-Ps	.04	.06	.07	.09	.12	.14	.16	.19	.22	.26
	NC	<20	<20	22	24	27	29	30	32	34	35
12" \emptyset	CFM	470	550	630	710	790	860	940	1020	1100	1180
	-Ps	.04	.06	.08	.10	.13	.15	.18	.21	.24	.28
	NC	<20	<20	22	25	27	29	31	33	35	37
14" \emptyset	CFM	640	750	860	960	1070	1180	1280	1390	1500	1600
	-Ps	.04	.06	.08	.10	.12	.15	.18	.21	.25	.28
	NC	<20	<20	21	24	27	30	32	34	36	37
16" \emptyset	CFM	840	980	1120	1260	1400	1540	1680	1820	1950	2090
	-Ps	.05	.06	.08	.10	.13	.15	.18	.21	.24	.28
	NC	<20	<20	20	24	27	29	32	34	36	38
18" \emptyset	CFM	1060	1240	1410	1590	1770	1940	2120	2300	2470	2650
	-Ps	.05	.07	.08	.11	.13	.16	.19	.22	.26	.30
	NC	<20	<20	22	25	28	30	33	35	37	38
20" \emptyset	CFM	1310	1530	1740	1960	2180	2400	2620	2830	3050	3270
	-Ps	.10	.13	.17	.21	.27	.32	.38	.45	.52	.60
	NC	22	26	30	33	36	39	41	43	45	47
22" \emptyset	CFM	1580	1850	2110	2380	2640	2900	3170	3430	3700	3960
	-Ps	.10	.13	.17	.22	.27	.32	.38	.45	.52	.60
	NC	23	27	31	34	37	39	42	44	46	48

Test Standard

• ANSI / ASHRAE standard 70

Sound Levels

• NC is noise criteria curve that will not be exceeded at the operating point. This is determined by assuming a 10dB (ref: 10-12 watts) room attenuation that is subtracted from the power levels in each of the 2nd thru 7th octave bands

Pressure

• -PS represents static pressure, inches of water, in return duct

Neck Velocity

• Feet per minute (fpm), measured in the supply duct

SQUARE NECKS

SQUARE NECK	NECK AREA, FT ²		NECK VELOCITY, FPM									
			600	700	800	900	1000	1100	1200	1300	1400	1500
6" x 6"	.25	CFM	150	180	200	230	250	280	300	330	350	380
		-Ps	.02	.03	.04	.05	.06	.08	.09	.11	.12	.14
		NC	<20	<20	<20	20	23	26	28	30	32	34
8" x 8"	.44	CFM	270	310	360	400	440	490	530	580	620	670
		-Ps	.03	.04	.05	.06	.07	.09	.11	.13	.15	.17
		NC	<20	<20	<20	22	24	27	29	31	33	34
10" x 10"	.69	CFM	420	490	560	620	690	760	830	900	970	1040
		-Ps	.04	.05	.06	.08	.10	.12	.14	.16	.19	.22
		NC	<20	<20	20	23	25	28	30	32	34	35
12" x 12"	1.00	CFM	600	700	800	900	1000	1100	1200	1300	1400	1500
		-Ps	.03	.05	.06	.08	.10	.12	.14	.16	.19	.22
		NC	<20	<20	20	23	26	28	30	32	34	36
14" x 14"	1.36	CFM	820	950	1090	1220	1360	1500	1630	1770	1910	2040
		-Ps	.04	.06	.08	.10	.12	.14	.17	.20	.23	.27
		NC	<20	<20	20	23	27	29	32	34	36	38
16" x 16"	1.78	CFM	1070	1240	1420	1600	1780	1960	2130	2310	2490	2670
		-Ps	.05	.07	.09	.11	.13	.16	.19	.23	.26	.30
		NC	<20	<20	22	25	27	30	32	34	36	38
18" x 18"	2.25	CFM	1350	1580	1800	2030	2250	2480	2700	2930	3150	3380
		-Ps	.05	.07	.09	.12	.15	.18	.21	.25	.29	.33
		NC	<20	<20	21	24	27	30	32	34	36	38
20" x 20"	2.78	CFM	1670	1950	2220	2500	2780	3060	3340	3610	3890	4170
		-Ps	.07	.10	.13	.17	.21	.25	.30	.35	.40	.46
		NC	23	27	31	34	37	40	42	44	46	48
22" x 22"	3.36	CFM	2020	2350	2690	3020	3360	3700	4030	4370	4700	5040
		-Ps	.07	.10	.13	.17	.21	.25	.30	.35	.40	.46
		NC	24	28	32	35	38	41	43	45	47	49

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