



ENGINEERING DATA

T115

1/2" Spacing, 38° Blade Deflection

Nom. Duct Size (in.)	Nom. Duct Area (ft ²)	Core Velocity (fpm)									
		200	300	400	500	600	700	800	900	1000	
		Velocity Pressure	0.002	0.006	0.010	0.016	0.022	0.031	.040	.050	0.062
		Negative Static Pressure	0.010	0.023	0.040	0.063	0.090	0.123	0.161	0.203	0.251
6x6	0.25	Airflow (CFM)	38	57	76	95	114	133	152	171	190
		NC	-	-	-	14	20	25	30	34	37
8x6	0.33	Airflow (CFM)	52	78	104	130	156	182	208	234	260
		NC	-	-	-	16	22	27	31	35	38
10x6	0.42	Airflow (CFM)	68	102	136	170	204	238	272	306	340
		NC	-	-	-	17	23	28	32	36	40
8x8	0.44	Airflow (CFM)	74	111	148	185	222	259	296	333	370
		NC	-	-	-	17	23	28	33	37	40
12x6	0.50	Airflow (CFM)	82	123	164	205	246	287	328	369	410
		NC	-	-	-	18	24	29	33	37	40
14x6	0.58	Airflow (CFM)	96	144	192	240	288	336	384	432	480
		NC	-	-	11	18	24	29	34	38	41
16x6 12x8	0.67	Airflow (CFM)	114	171	228	285	342	399	456	513	570
		NC	-	-	12	19	25	30	35	38	42
10x10	0.69	Airflow (CFM)	118	177	236	295	354	413	472	531	590
		NC	-	-	12	19	25	30	35	39	42
18x6	0.75	Airflow (CFM)	126	189	252	315	378	441	504	567	630
		NC	-	-	12	20	26	31	35	39	42
20x6 12x10	0.83	Airflow (CFM)	144	216	288	360	432	504	576	648	720
		NC	-	-	13	20	26	31	36	39	43
22x6	0.92	Airflow (CFM)	154	231	308	385	462	539	616	693	770
		NC	-	-	13	20	26	31	36	40	43
24x6 18x8	1.00	Airflow (CFM)	176	264	352	440	528	616	704	792	880
		NC	-	-	14	21	27	32	36	40	44
30x6 18x10	1.25	Airflow (CFM)	222	333	444	555	666	777	888	999	1110
		NC	-	-	15	22	28	33	37	41	45
14x14	1.36	Airflow (CFM)	244	366	488	610	732	854	976	1098	1220
		NC	-	-	15	22	28	33	38	42	45
36x6 18x12	1.50	Airflow (CFM)	270	405	540	675	810	945	1080	1215	1350
		NC	-	-	16	23	29	34	38	42	46
22x10	1.53	Airflow (CFM)	274	411	548	685	822	959	1096	1233	1370
		NC	-	-	16	23	29	34	38	42	46

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-2006 isothermal conditions
2. Units: Face Velocity=fpm; Total Pressure=in. wc; Neg. Static Pressure-in. wc
3. NC is based upon 10dB room absorption (Re: 10⁻¹² watts) evaluated at 125 through 4000Hz octave bands
4. Dash "-" indicates NC value less than 10.



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1/2" Spacing, 38° Blade Deflection

Nom. Duct Size (in.)	Nom. Duct Area (ft ²)	Core Velocity (fpm)		200	300	400	500	600	700	800	900	1000
		Velocity Pressure		0.002	0.006	0.010	0.016	0.022	0.031	.040	.050	0.062
		Negative Static Pressure		0.010	0.023	0.040	0.063	0.090	0.123	0.161	0.203	0.251
30x8 24x10	1.67	Airflow (CFM)		298	447	596	745	894	1043	1192	1341	1490
		NC		-	-	16	23	29	34	39	43	46
42x6 18x14	1.75	Airflow (CFM)		318	477	636	795	954	1113	1272	1431	1590
		NC		-	-	16	24	30	35	39	43	46
16x16	1.78	Airflow (CFM)		324	486	648	810	972	1134	1296	1458	1620
		NC		-	-	16	24	30	35	39	43	46
24x12 18x16	2.00	Airflow (CFM)		364	546	728	910	1092	1274	1456	1638	1820
		NC		-	-	17	24	30	35	40	43	47
18x18	2.25	Airflow (CFM)		414	621	828	1035	1242	1449	1656	1863	2070
		NC		-	-	18	25	31	36	40	44	47
42x8 24x14	2.33	Airflow (CFM)		428	642	856	1070	1284	1498	1712	1926	2140
		NC		-	-	18	25	31	36	40	44	48
36x10 30x12	2.50	Airflow (CFM)		458	687	916	1145	1374	1603	1832	2061	2290
		NC		-	-	18	25	31	36	41	44	48
48x8 24x16	2.67	Airflow (CFM)		492	738	984	1230	1476	1722	1968	2214	2460
		NC		-	-	18	26	31	37	41	45	48
20x20	2.78	Airflow (CFM)		514	771	1028	1285	1542	1799	2056	2313	2570
		NC		-	-	18	26	32	37	41	45	48
36x12 24x18	3.00	Airflow (CFM)		550	825	1100	1375	1650	1925	2200	2475	2750
		NC		-	-	19	26	32	37	41	45	49
48x10 30x16	3.33	Airflow (CFM)		622	933	1244	1555	1866	2177	2488	2799	3110
		NC		-	-	19	27	33	38	42	46	49
22x22	3.36	Airflow (CFM)		628	942	1256	1570	1884	2198	2512	2826	3140
		NC		-	-	19	27	33	38	42	46	49
42x12 36x14	3.50	Airflow (CFM)		644	966	1288	1610	1932	2254	2576	2898	3220
		NC		-	-	19	27	33	38	42	46	49
24x22	3.67	Airflow (CFM)		686	1029	1372	1715	2058	2401	2744	3087	3430
		NC		-	-	20	27	33	38	42	46	50
30x18	3.75	Airflow (CFM)		700	1050	1400	1750	2100	2450	2800	3150	3500
		NC		-	-	20	27	33	38	42	46	50
48x12 36x16	4.00	Airflow (CFM)		750	1125	1500	1875	2250	2625	3000	3375	3750
		NC		-	11	20	27	33	38	43	47	50

Notes:

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Nom. Duct Size (in.)	Nom. Duct Area (ft ²)	Core Velocity (fpm)									
		200	300	400	500	600	700	800	900	1000	
		Velocity Pressure	0.002	0.006	0.010	0.016	0.022	0.031	.040	.050	0.062
		Negative Static Pressure	0.010	0.023	0.040	0.063	0.090	0.123	0.161	0.203	0.251
36x18	4.50	Airflow (CFM)	844	1266	1688	2110	2532	2954	3376	3798	4220
		NC	-	11	21	28	34	39	43	47	51
36x20 30x24	5.00	Airflow (CFM)	942	1413	1884	2355	2826	3297	3768	4239	4710
		NC	-	12	21	28	34	39	44	48	51
42x18	5.25	Airflow (CFM)	988	1482	1976	2470	2964	3458	3952	4446	4940
		NC	-	12	21	29	35	40	44	48	51
28x28	5.44	Airflow (CFM)	1032	1548	2064	2580	3096	3612	4128	4644	5160
		NC	-	12	21	29	35	40	44	48	51
42x20 30x28	5.83	Airflow (CFM)	1102	1653	2204	2755	3306	3857	4408	4959	5510
		NC	-	12	22	29	35	40	44	48	52
48x18 36x24	6.00	Airflow (CFM)	1132	1698	2264	2830	3396	3962	4528	5094	5660
		NC	-	12	22	29	35	40	45	48	52
30x30	6.25	Airflow (CFM)	1188	1782	2376	2970	3564	4158	4752	5346	5940
		NC	-	13	22	29	35	40	45	49	52
42x24 36x28	7.00	Airflow (CFM)	1332	1998	2664	3330	3996	4662	5328	5994	6660
		NC	-	13	23	30	36	41	45	49	52
46x22	7.03	Airflow (CFM)	1336	2004	2672	3340	4008	4676	5344	6012	6680
		NC	-	13	23	30	36	41	45	49	53
32x32	7.11	Airflow (CFM)	1356	2034	2712	3390	4068	4746	5424	6102	6780
		NC	-	13	23	30	36	41	45	49	53
36x30	7.50	Airflow (CFM)	1432	2148	2864	3580	4296	5012	5728	6444	7160
		NC	-	14	23	30	36	41	46	49	53
48x24 36x32	8.00	Airflow (CFM)	1526	2289	3052	3815	4578	5341	6104	6867	7630
		NC	-	14	23	30	36	41	46	50	53
34x34	8.03	Airflow (CFM)	1536	2304	3072	3840	4608	5376	6144	6912	7680
		NC	-	14	23	30	36	41	46	50	53
36x34	8.50	Airflow (CFM)	1628	2442	3256	4070	4884	5698	6512	7326	8140
		NC	-	14	23	31	37	42	46	50	53
42x30	8.75	Airflow (CFM)	1676	2514	3352	4190	5028	5866	6704	7542	8380
		NC	-	14	24	31	37	42	46	50	53
36x36	9.00	Airflow (CFM)	1726	2589	3452	4315	5178	6041	6904	7767	8630
		NC	-	14	24	31	37	42	46	50	54

Notes:

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ENGINEERING DATA

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1/2" Spacing, 38° Blade Deflection

Nom. Duct Size (in.)	Nom. Duct Area (ft ²)	Core Velocity (fpm)	200	300	400	500	600	700	800	900	1000
		Velocity Pressure	0.002	0.006	0.010	0.016	0.022	0.031	.040	.050	0.062
		Negative Static Pressure	0.010	0.023	0.040	0.063	0.090	0.123	0.161	0.203	0.251
42x34 48x30	9.92	Airflow (CFM)	1920	2880	3840	4800	5760	6720	7680	8640	9600
		NC	-	15	24	31	37	42	47	51	54
38x38	10.03	Airflow (CFM)	1928	2892	3856	4820	5784	6748	7712	8676	9640
		NC	-	15	24	31	37	42	47	51	54
42x36	10.50	Airflow (CFM)	2020	3030	4040	5050	6060	7070	8080	9090	10100
		NC	-	15	24	32	38	43	47	51	54
46x34	10.86	Airflow (CFM)	2090	3135	4180	5225	6270	7315	8360	9405	10450
		NC	-	15	25	32	38	43	47	51	54
42x38	11.08	Airflow (CFM)	2134	3201	4268	5335	6402	7469	8536	9603	10670
		NC	-	15	25	32	38	43	47	51	55
40x40	11.11	Airflow (CFM)	2140	3210	4280	5350	6420	7490	8560	9630	10700
		NC	-	15	25	32	38	43	47	51	55
48x36	12.00	Airflow (CFM)	2314	3471	4628	5785	6942	8099	9256	10413	11570
		NC	-	16	25	32	38	43	48	51	55
42x42	12.25	Airflow (CFM)	2364	3546	4728	5910	7092	8274	9456	10638	11820
		NC	-	16	25	32	38	43	48	52	55
44x44	13.44	Airflow (CFM)	2598	3897	5196	6495	7794	9093	10392	11691	12990
		NC	-	16	25	33	39	44	48	52	55
48x42	14.00	Airflow (CFM)	2708	4062	5416	6770	8124	9478	10832	12186	13540
		NC	-	16	26	33	39	44	48	52	56
46x46	14.69	Airflow (CFM)	2844	4266	5688	7110	8532	9954	11376	12798	14220
		NC	-	16	26	33	39	44	49	52	56
48x46	15.33	Airflow (CFM)	2970	4455	5940	7425	8910	10395	11880	13365	14850
		NC	-	17	26	33	39	44	49	53	56
48x48	16.00	Airflow (CFM)	3100	4650	6200	7750	9300	10850	12400	13950	15500
		NC	-	17	26	34	39	45	49	53	56

Notes:

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Grilles & Registers



ENGINEERING DATA

T115

3/8" Spacing, 0° Blade Deflection

Nom. Duct Size (in.)	Nom. Duct Area (ft ²)	Core Velocity (fpm)									
		200	300	400	500	600	800	1000	1200	1400	
		Velocity Pressure	0.002	0.006	0.010	0.016	0.022	0.040	0.062	0.090	0.122
		Negative Static Pressure	0.006	0.013	0.022	0.035	0.050	0.090	0.140	0.202	0.275
6x6	0.25	Airflow (CFM)	38	57	76	95	114	152	190	228	266
		NC	-	-	-	12	16	23	28	32	35
8x6	0.33	Airflow (CFM)	52	78	104	130	156	208	260	312	364
		NC	-	-	-	13	17	24	29	33	36
10x6	0.42	Airflow (CFM)	68	102	136	170	204	272	340	408	476
		NC	-	-	-	15	19	25	30	34	38
8x8	0.44	Airflow (CFM)	74	111	148	185	222	296	370	444	518
		NC	-	-	-	15	19	25	30	35	38
12x6	0.50	Airflow (CFM)	82	123	164	205	246	328	410	492	574
		NC	-	-	-	15	19	26	31	35	38
14x6	0.58	Airflow (CFM)	96	144	192	240	288	384	480	576	672
		NC	-	-	11	16	20	27	32	36	39
16x6 12x8	0.67	Airflow (CFM)	114	171	228	285	342	456	570	684	798
		NC	-	-	12	17	21	27	32	36	40
10x10	0.69	Airflow (CFM)	118	177	236	295	354	472	590	708	826
		NC	-	-	12	17	21	27	32	37	40
18x6	0.75	Airflow (CFM)	126	189	252	315	378	504	630	756	882
		NC	-	-	12	17	21	28	33	37	40
20x6 12x10	0.83	Airflow (CFM)	144	216	288	360	432	576	720	864	1008
		NC	-	-	13	18	22	28	33	37	41
22x6	0.92	Airflow (CFM)	154	231	308	385	462	616	770	924	1078
		NC	-	-	13	18	22	29	34	38	41
24x6 18x8	1.00	Airflow (CFM)	176	264	352	440	528	704	880	1056	1232
		NC	-	-	14	19	23	29	34	38	42
30x6 18x10	1.25	Airflow (CFM)	222	333	444	555	666	888	1110	1332	1554
		NC	-	-	15	20	24	30	35	39	43
14x14	1.36	Airflow (CFM)	244	366	488	610	732	976	1220	1464	1708
		NC	-	-	15	20	24	31	36	40	43
36x6 18x12	1.50	Airflow (CFM)	270	405	540	675	810	1080	1350	1620	1890
		NC	-	-	15	21	25	31	36	40	44
22x10	1.53	Airflow (CFM)	274	411	548	685	822	1096	1370	1644	1918
		NC	-	-	16	21	25	31	36	40	44

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-2006 isothermal conditions
2. Units: Face Velocity=fpm; Total Pressure=in. wc; Neg. Static Pressure-in. wc
3. NC is based upon 10dB room absorption (Re: 10⁻¹² watts) evaluated at 125 through 4000Hz octave bands
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Nom. Duct Size (in.)	Nom. Duct Area (ft ²)	Core Velocity (fpm)		200	300	400	500	600	800	1000	1200	1400
		Velocity Pressure		0.002	0.006	0.010	0.016	0.022	0.040	0.062	0.090	0.122
		Negative Static Pressure		0.006	0.013	0.022	0.035	0.050	0.090	0.140	0.202	0.275
30x8 24x10	1.67	Airflow (CFM)		298	447	596	745	894	1192	1490	1788	2086
		NC		-	-	16	21	25	31	36	41	44
42x6 18x14	1.75	Airflow (CFM)		318	477	636	795	954	1272	1590	1908	2226
		NC		-	-	16	21	25	32	37	41	44
16x16	1.78	Airflow (CFM)		324	486	648	810	972	1296	1620	1944	2268
		NC		-	-	16	21	25	32	37	41	44
24x12 18x16	2.00	Airflow (CFM)		364	546	728	910	1092	1456	1820	2184	2548
		NC		-	-	17	22	26	32	37	41	45
18x18	2.25	Airflow (CFM)		414	621	828	1035	1242	1656	2070	2484	2898
		NC		-	11	17	22	26	33	38	42	45
42x8 24x14	2.33	Airflow (CFM)		428	642	856	1070	1284	1712	2140	2568	2996
		NC		-	11	18	23	27	33	38	42	46
36x10 30x12	2.50	Airflow (CFM)		458	687	916	1145	1374	1832	2290	2748	3206
		NC		-	11	18	23	27	33	38	42	46
48x8 24x16	2.67	Airflow (CFM)		492	738	984	1230	1476	1968	2460	2952	3444
		NC		-	12	18	23	27	34	39	43	46
20x20	2.78	Airflow (CFM)		514	771	1028	1285	1542	2056	2570	3084	3598
		NC		-	12	18	23	27	34	39	43	46
36x12 24x18	3.00	Airflow (CFM)		550	825	1100	1375	1650	2200	2750	3300	3850
		NC		-	12	19	24	28	34	39	43	47
48x10 30x16	3.33	Airflow (CFM)		622	933	1244	1555	1866	2488	3110	3732	4354
		NC		-	13	19	24	28	35	40	44	47
22x22	3.36	Airflow (CFM)		628	942	1256	1570	1884	2512	3140	3768	4396
		NC		-	13	19	24	28	35	40	44	47
42x12 36x14	3.50	Airflow (CFM)		644	966	1288	1610	1932	2576	3220	3864	4508
		NC		-	13	19	24	28	35	40	44	47
24x22	3.67	Airflow (CFM)		686	1029	1372	1715	2058	2744	3430	4116	4802
		NC		-	13	20	25	29	35	40	44	48
30x18	3.75	Airflow (CFM)		700	1050	1400	1750	2100	2800	3500	4200	4900
		NC		-	13	20	25	29	35	40	44	48
48x12 36x16	4.00	Airflow (CFM)		750	1125	1500	1875	2250	3000	3750	4500	5250
		NC		-	13	20	25	29	35	40	45	48

Notes:

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Nom. Duct Size (in.)	Nom. Duct Area (ft ²)	Core Velocity (fpm)										
		200	300	400	500	600	800	1000	1200	1400		
		Velocity Pressure	0.002	0.006	0.010	0.016	0.022	0.040	0.062	0.090	0.122	
		Negative Static Pressure	0.006	0.013	0.022	0.035	0.050	0.090	0.140	0.202	0.275	
36x18	4.50	Airflow (CFM)	844	1266	1688	2110	2532	3376	4220	5064	5908	
		NC	-	14	20	25	30	36	41	45	49	
36x20 30x24	5.00	Airflow (CFM)	942	1413	1884	2355	2826	3768	4710	5652	6594	
		NC	-	14	21	26	30	36	41	46	49	
42x18	5.25	Airflow (CFM)	988	1482	1976	2470	2964	3952	4940	5928	6916	
		NC	-	15	21	26	30	37	42	46	49	
28x28	5.44	Airflow (CFM)	1032	1548	2064	2580	3096	4128	5160	6192	7224	
		NC	-	15	21	26	30	37	42	46	49	
42x20 30x28	5.83	Airflow (CFM)	1102	1653	2204	2755	3306	4408	5510	6612	7714	
		NC	-	15	22	27	31	37	42	46	50	
48x18 36x24	6.00	Airflow (CFM)	1132	1698	2264	2830	3396	4528	5660	6792	7924	
		NC	-	15	22	27	31	37	42	46	50	
30x30	6.25	Airflow (CFM)	1188	1782	2376	2970	3564	4752	5940	7128	8316	
		NC	-	15	22	27	31	37	42	47	50	
42x24 36x28	7.00	Airflow (CFM)	1332	1998	2664	3330	3996	5328	6660	7992	9324	
		NC	-	16	22	27	32	38	43	47	51	
46x22	7.03	Airflow (CFM)	1336	2004	2672	3340	4008	5344	6680	8016	9352	
		NC	-	16	22	27	32	38	43	47	51	
32x32	7.11	Airflow (CFM)	1356	2034	2712	3390	4068	5424	6780	8136	9492	
		NC	-	16	23	28	32	38	43	47	51	
36x30	7.50	Airflow (CFM)	1432	2148	2864	3580	4296	5728	7160	8592	10024	
		NC	-	16	23	28	32	38	43	47	51	
48x24 36x32	8.00	Airflow (CFM)	1526	2289	3052	3815	4578	6104	7630	9156	10682	
		NC	-	17	23	28	32	39	44	48	51	
34x34	8.03	Airflow (CFM)	1536	2304	3072	3840	4608	6144	7680	9216	10752	
		NC	-	17	23	28	32	39	44	48	51	
36x34	8.50	Airflow (CFM)	1628	2442	3256	4070	4884	6512	8140	9768	11396	
		NC	-	17	23	28	32	39	44	48	51	
42x30	8.75	Airflow (CFM)	1676	2514	3352	4190	5028	6704	8380	10056	11732	
		NC	-	17	23	28	33	39	44	48	52	
36x36	9.00	Airflow (CFM)	1726	2589	3452	4315	5178	6904	8630	10356	12082	
		NC	-	17	24	29	33	39	44	48	52	

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-2006 isothermal conditions
2. Units: Face Velocity=fpm; Total Pressure=in. wc; Neg. Static Pressure-in. wc
3. NC is based upon 10dB room absorption (Re: 10⁻¹² watts) evaluated at 125 through 4000Hz octave bands
4. Dash "-" indicates NC value less than 10.



ENGINEERING DATA

T115

3/8" Spacing, 0° Blade Deflection

Nom. Duct Size (in.)	Nom. Duct Area (ft ²)	Core Velocity (fpm)	200	300	400	500	600	800	1000	1200	1400
		Velocity Pressure	0.002	0.006	0.010	0.016	0.022	0.040	0.062	0.090	0.122
		Negative Static Pressure	0.006	0.013	0.022	0.035	0.050	0.090	0.140	0.202	0.275
42x34 48x30	9.92	Airflow (CFM)	1920	2880	3840	4800	5760	7680	9600	11520	13440
		NC	-	18	24	29	33	40	45	49	52
38x38	10.03	Airflow (CFM)	1928	2892	3856	4820	5784	7712	9640	11568	13496
		NC	-	18	24	29	33	40	45	49	52
42x36	10.50	Airflow (CFM)	2020	3030	4040	5050	6060	8080	10100	12120	14140
		NC	-	18	24	29	33	40	45	49	52
46x34	10.86	Airflow (CFM)	2090	3135	4180	5225	6270	8360	10450	12540	14630
		NC	-	18	24	29	33	40	45	49	52
42x38	11.08	Airflow (CFM)	2134	3201	4268	5335	6402	8536	10670	12804	14938
		NC	-	18	24	29	34	40	45	49	53
40x40	11.11	Airflow (CFM)	2140	3210	4280	5350	6420	8560	10700	12840	14980
		NC	-	18	24	29	34	40	45	49	53
48x36	12.00	Airflow (CFM)	2314	3471	4628	5785	6942	9256	11570	13884	16198
		NC	-	18	25	30	34	40	45	49	53
42x42	12.25	Airflow (CFM)	2364	3546	4728	5910	7092	9456	11820	14184	16548
		NC	-	18	25	30	34	40	45	50	53
44x44	13.44	Airflow (CFM)	2598	3897	5196	6495	7794	10392	12990	15588	18186
		NC	-	19	25	30	34	41	46	50	53
48x42	14.00	Airflow (CFM)	2708	4062	5416	6770	8124	10832	13540	16248	18956
		NC	-	19	26	31	35	41	46	50	54
46x46	14.69	Airflow (CFM)	2844	4266	5688	7110	8532	11376	14220	17064	19908
		NC	-	19	26	31	35	41	46	50	54
48x46	15.33	Airflow (CFM)	2970	4455	5940	7425	8910	11880	14850	17820	20790
		NC	-	19	26	31	35	41	46	51	54
48x48	16.00	Airflow (CFM)	3100	4650	6200	7750	9300	12400	15500	18600	21700
		NC	11	20	26	31	35	42	47	51	54

Notes:

1. Tests conducted in accordance with ANSI/ASHRAE 70-2006 isothermal conditions
2. Units: Face Velocity=fpm; Total Pressure=in. wc; Neg. Static Pressure-in. wc
3. NC is based upon 10dB room absorption (Re: 10⁻¹² watts) evaluated at 125 through 4000Hz octave bands
4. Dash "-" indicates NC value less than 10.