

PERFORMANCE DATA | AFC80 | 45° DEFLECTION (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	300	57	-0.42	12	152 x 152	0.02	1.52	27	-10.5	26	30	30	12	-	-		
		463	89	-1.01	23			2.35	42	-25.1	34	39	39	27	22	19		
		625	120	-1.84	30			3.18	56	-45.8	39	45	46	38	34	29		
		788	151	-2.92	36			4.00	71	-72.7	43	50	51	46	42	37		
		950	182	-4.25	40			4.83	86	-105.8	47	53	55	53	50	44		
10" x 6"	0.42	275	93	-0.36	12	254 x 152	0.04	1.40	44	-8.9	27	31	30	12	-	-		
		425	143	-0.85	23			2.16	68	-21.2	35	40	40	27	22	19		
		575	194	-1.56	31			2.92	92	-38.8	40	46	46	38	33	29		
		725	244	-2.47	36			3.68	115	-61.6	44	50	51	46	42	37		
		875	295	-3.60	41			4.45	139	-89.7	47	54	56	53	49	44		
12" x 6"	0.50	250	103	-0.29	11	305 x 152	0.05	1.27	48	-7.3	26	30	29	-	-	-		
		400	164	-0.75	22			2.03	77	-18.8	34	39	39	26	21	18		
		550	226	-1.42	30			2.79	106	-35.5	40	46	46	37	33	29		
		700	287	-2.31	36			3.56	136	-57.4	44	50	52	46	42	37		
		850	349	-3.40	41			4.32	165	-84.7	48	54	56	53	49	44		
12" x 8"	0.67	250	142	-0.29	12	305 x 203	0.06	1.27	67	-7.3	27	31	30	11	-	-		
		388	219	-0.71	23			1.97	104	-17.6	35	40	40	27	21	18		
		525	297	-1.30	31			2.67	140	-32.3	40	46	47	37	33	29		
		663	375	-2.07	36			3.37	177	-51.4	45	51	52	45	42	36		
		800	453	-3.01	41			4.06	214	-75.0	48	54	56	52	49	43		
18" x 6"	0.75	250	157	-0.29	13	457 x 152	0.07	1.27	74	-7.3	28	31	31	12	-	-		
		388	244	-0.71	24			1.97	115	-17.6	35	40	40	27	22	19		
		525	330	-1.30	31			2.67	156	-32.3	41	46	47	38	33	29		
		663	417	-2.07	37			3.37	197	-51.4	45	51	52	46	42	37		
		800	503	-3.01	42			4.06	237	-75.0	48	55	56	53	49	43		
22" x 6"	0.92	225	174	-0.24	11	559 x 152	0.09	1.14	82	-5.9	27	30	29	-	-	-		
		363	281	-0.62	23			1.84	133	-15.4	35	40	40	26	20	17		
		500	387	-1.18	31			2.54	183	-29.3	41	46	47	37	32	28		
		638	494	-1.91	37			3.24	233	-47.6	45	51	52	46	42	37		
		775	600	-2.83	42			3.94	283	-70.4	49	55	56	53	49	43		
18" x 10"	1.25	220	244	-0.23	12	457 x 254	0.12	1.12	115	-5.7	28	31	30	-	-	-		
		340	377	-0.54	23			1.73	178	-13.6	35	40	40	25	20	17		
		460	510	-1.00	30			2.34	241	-24.8	41	46	46	36	31	27		
		580	643	-1.58	36			2.95	303	-39.4	45	51	51	44	40	35		
		700	776	-2.31	41			3.56	366	-57.4	48	55	56	51	47	42		
27" x 8"	1.50	200	264	-0.19	11	686 x 203	0.14	1.02	125	-4.7	27	30	29	-	-	-		
		325	430	-0.50	23			1.65	203	-12.4	35	40	39	25	19	16		
		450	595	-0.95	31			2.29	281	-23.7	41	46	47	36	31	27		
		575	760	-1.56	37			2.92	359	-38.8	46	51	52	45	41	36		
		700	925	-2.31	42			3.56	437	-57.4	49	55	56	52	48	42		
24" x 10"	1.67	200	299	-0.19	11	610 x 254	0.15	1.02	141	-4.7	27	30	29	-	-	-		
		319	476	-0.48	23			1.62	225	-11.9	36	40	40	25	19	16		
		438	653	-0.90	31			2.22	308	-22.4	41	46	47	36	31	27		
		556	831	-1.46	37			2.83	392	-36.3	45	51	52	44	40	35		
		675	1008	-2.14	41			3.43	476	-53.4	49	55	56	51	47	42		
16" x 16"	1.78	200	323	-0.19	11	406 x 406	0.17	1.02	152	-4.7	28	31	30	-	-	-		
		313	505	-0.46	23			1.59	238	-11.4	35	40	39	24	18	16		
		425	686	-0.85	30			2.16	324	-21.2	41	46	46	35	30	26		
		538	868	-1.36	36			2.73	410	-33.9	45	51	51	43	39	34		
		650	1050	-1.99	41			3.30	495	-49.5	49	55	56	50	46	41		
18" x 18"	2.25	200	413	-0.19	13	457 x 457	0.21	1.02	195	-4.7	29	32	31	-	-	-		
		300	620	-0.42	23			1.52	293	-10.5	36	40	40	24	18	15		
		400	827	-0.75	30			2.03	390	-18.8	41	46	46	34	29	25		
		500	1033	-1.18	35			2.54	488	-29.3	45	50	51	42	38	33		
		600	1240	-1.69	40			3.05	585	-42.2	48	54	55	48	45	39		

NOTE: See notes on page J1-103.

AFCS80 / AFCS85

Return Grille | Architectural, Curved Blade



PERFORMANCE DATA | AFCS80 | 45° DEFLECTION (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	200	457	-0.19	13	762 x 305	0.23	1.02	216	-4.7	29	32	31	-	-	-		
		300	686	-0.42	23			1.52	324	-10.5	36	40	40	25	19	16		
		400	914	-0.75	30			2.03	431	-18.8	41	46	46	35	30	26		
		500	1143	-1.18	36			2.54	539	-29.3	45	51	51	43	38	33		
		600	1371	-1.69	40			3.05	647	-42.2	48	54	55	49	45	40		
20" x 20"	2.78	180	463	-0.15	11	508 x 508	0.26	0.91	219	-3.8	28	31	29	-	-	-		
		285	733	-0.38	22			1.45	346	-9.5	36	40	39	23	17	15		
		390	1004	-0.72	30			1.98	474	-17.8	41	46	46	34	29	25		
		495	1274	-1.15	36			2.51	601	-28.7	46	51	51	43	38	34		
		600	1544	-1.69	41			3.05	729	-42.2	49	55	56	50	46	40		
30" x 16"	3.33	180	558	-0.15	12	762 x 406	0.31	0.91	263	-3.8	28	31	30	-	-	-		
		275	852	-0.36	22			1.40	402	-8.9	36	40	39	23	17	14		
		370	1146	-0.64	30			1.88	541	-16.0	41	46	46	34	28	24		
		465	1440	-1.02	36			2.36	680	-25.3	45	51	51	42	37	32		
		560	1735	-1.48	40			2.84	819	-36.8	49	54	55	48	44	39		
36" x 14"	3.50	180	584	-0.15	12	914 x 356	0.33	0.91	276	-3.8	29	32	30	-	-	-		
		275	892	-0.36	23			1.40	421	-8.9	36	40	40	23	17	14		
		370	1200	-0.64	30			1.88	566	-16.0	41	46	46	34	28	25		
		465	1508	-1.02	36			2.36	712	-25.3	45	51	51	42	37	32		
		560	1816	-1.48	40			2.84	857	-36.8	49	54	55	48	44	39		
30" x 18"	3.75	170	596	-0.14	11	762 x 457	0.35	0.86	281	-3.4	28	31	29	-	-	-		
		265	929	-0.33	22			1.35	438	-8.2	36	40	39	22	16	14		
		360	1261	-0.61	30			1.83	595	-15.2	41	46	46	33	28	24		
		455	1594	-0.97	36			2.31	752	-24.3	45	51	51	41	37	32		
		550	1927	-1.42	40			2.79	910	-35.5	49	54	55	48	44	39		
36" x 18"	4.50	170	718	-0.14	12	914 x 457	0.42	0.86	339	-3.4	29	31	30	-	-	-		
		265	1119	-0.33	23			1.35	528	-8.2	36	40	40	23	17	14		
		360	1520	-0.61	31			1.83	717	-15.2	42	47	47	34	29	25		
		455	1921	-0.97	36			2.31	907	-24.3	46	51	52	42	38	33		
		550	2322	-1.42	41			2.79	1096	-35.5	49	55	56	49	45	39		
42" x 18"	5.25	160	791	-0.12	11	1067 x 457	0.49	0.81	373	-3.0	28	31	29	-	-	-		
		250	1235	-0.29	22			1.27	583	-7.3	36	40	39	22	16	13		
		340	1680	-0.54	30			1.73	793	-13.6	42	46	46	33	27	24		
		430	2125	-0.87	36			2.18	1003	-21.7	46	51	51	41	36	32		
		520	2570	-1.27	40			2.64	1213	-31.7	49	55	55	48	44	38		
30" x 28"	5.83	160	886	-0.12	12	762 x 711	0.54	0.81	418	-3.0	29	31	30	-	-	-		
		245	1356	-0.28	22			1.24	640	-7.0	36	40	39	22	16	13		
		330	1827	-0.51	30			1.68	862	-12.8	41	46	46	32	27	23		
		415	2297	-0.81	35			2.11	1084	-20.2	46	51	51	40	36	31		
		500	2768	-1.18	40			2.54	1306	-29.3	49	54	55	47	43	37		
30" x 30"	6.25	160	951	-0.12	12	762 x 762	0.58	0.81	449	-3.0	29	32	30	-	-	-		
		245	1456	-0.28	23			1.24	687	-7.0	36	40	39	22	16	13		
		330	1961	-0.51	30			1.68	925	-12.8	42	46	46	33	27	24		
		415	2466	-0.81	36			2.11	1164	-20.2	46	51	51	41	36	31		
		500	2971	-1.18	40			2.54	1402	-29.3	49	55	55	47	43	38		
46" x 22"	7.03	160	1068	-0.12	12	1168 x 559	0.65	0.81	504	-3.0	29	32	31	-	-	-		
		245	1636	-0.28	23			1.24	772	-7.0	37	41	40	23	17	14		
		330	2204	-0.51	31			1.68	1040	-12.8	42	47	46	33	28	24		
		415	2771	-0.81	36			2.11	1308	-20.2	46	51	52	41	37	32		
		500	3339	-1.18	41			2.54	1576	-29.3	50	55	56	48	44	38		
36" x 30"	7.50	160	1146	-0.12	13	914 x 762	0.70	0.81	541	-3.0	30	32	31	-	-	-		
		245	1754	-0.28	23			1.24	828	-7.0	37	41	40	23	17	14		
		330	2363	-0.51	31			1.68	1115	-12.8	42	47	47	34	28	24		
		415	2971	-0.81	37			2.11	1402	-20.2	47	52	52	42	37	32		
		500	3580	-1.18	41			2.54	1690	-29.3	50	55	56	48	44	39		

NOTE: See notes on page J1-103.

PERFORMANCE DATA | AFC80 | 45° DEFLECTION (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		
34" x 34"	8.03	160	1228	-0.12	13	864 x 864	0.75	0.81	580	-3.0	30	33	31	-	-	-		
		245	1881	-0.28	24			1.24	888	-7.0	37	41	41	24	17	14		
		330	2534	-0.51	31			1.68	1196	-12.8	43	47	47	34	29	25		
		415	3186	-0.81	37			2.11	1504	-20.2	47	52	52	42	37	33		
		500	3839	-1.18	42			2.54	1812	-29.3	50	56	56	49	45	39		
42" x 30"	8.75	160	1341	-0.12	14	1067 x 762	0.81	0.81	633	-3.0	30	33	32	-	-	-		
		245	2053	-0.28	24			1.24	969	-7.0	38	42	41	24	18	15		
		330	2765	-0.51	32			1.68	1305	-12.8	43	48	47	35	29	25		
		415	3477	-0.81	37			2.11	1641	-20.2	47	52	52	43	38	33		
		500	4189	-1.18	42			2.54	1977	-29.3	51	56	57	49	45	39		
48" x 30"	10.00	140	1344	-0.09	11	1219 x 762	0.93	0.71	634	-2.3	28	31	29	-	-	-		
		220	2111	-0.23	22			1.12	997	-5.7	36	40	39	21	14	12		
		300	2879	-0.42	30			1.52	1359	-10.5	42	46	46	32	26	22		
		380	3647	-0.68	36			1.93	1721	-16.9	46	51	51	40	35	31		
		460	4415	-1.00	40			2.34	2084	-24.8	50	55	55	47	43	37		
42" x 36"	10.50	140	1414	-0.09	11	1067 x 914	0.98	0.71	667	-2.3	29	31	29	-	-	-		
		220	2221	-0.23	22			1.12	1048	-5.7	37	40	39	21	15	12		
		300	3029	-0.42	30			1.52	1430	-10.5	42	47	46	32	26	23		
		380	3837	-0.68	36			1.93	1811	-16.9	46	51	51	40	35	31		
		460	4645	-1.00	41			2.34	2192	-24.8	50	55	55	47	43	37		
42" x 38"	11.08	140	1494	-0.09	11	1067 x 965	1.03	0.71	705	-2.3	29	31	30	-	-	-		
		215	2294	-0.22	22			1.09	1083	-5.4	36	40	39	21	14	12		
		290	3094	-0.40	29			1.47	1460	-9.9	42	46	46	31	25	22		
		365	3895	-0.63	35			1.85	1838	-15.6	46	51	51	39	34	30		
		440	4695	-0.91	40			2.24	2216	-22.7	49	55	55	46	41	36		
48" x 36"	12.00	140	1619	-0.09	12	1219 x 914	1.11	0.71	764	-2.3	29	32	30	-	-	-		
		215	2487	-0.22	22			1.09	1174	-5.4	37	40	39	21	14	12		
		290	3354	-0.40	30			1.47	1583	-9.9	42	46	46	32	26	22		
		365	4222	-0.63	36			1.85	1992	-15.6	46	51	51	40	35	30		
		440	5089	-0.91	40			2.24	2402	-22.7	50	55	55	46	42	36		
44" x 44"	13.44	140	1819	-0.09	12	1118 x 1118	1.25	0.71	858	-2.3	30	32	30	-	-	-		
		215	2793	-0.22	23			1.09	1318	-5.4	37	41	40	22	15	12		
		290	3767	-0.40	30			1.47	1778	-9.9	43	47	46	32	26	23		
		365	4741	-0.63	36			1.85	2238	-15.6	47	52	51	40	35	31		
		440	5716	-0.91	41			2.24	2697	-22.7	50	55	56	47	42	37		
46" x 46"	14.69	140	1991	-0.09	13	1168 x 1168	1.37	0.71	939	-2.3	30	33	31	-	-	-		
		215	3057	-0.22	23			1.09	1443	-5.4	38	41	40	22	16	13		
		290	4124	-0.40	31			1.47	1946	-9.9	43	47	47	33	27	23		
		365	5190	-0.63	37			1.85	2449	-15.6	47	52	52	41	36	31		
		440	6256	-0.91	41			2.24	2953	-22.7	50	56	56	47	43	37		
48" x 48"	16.00	140	2171	-0.09	13	1219 x 1219	1.49	0.71	1024	-2.3	30	33	31	-	-	-		
		215	3333	-0.22	24			1.09	1573	-5.4	38	42	41	23	16	13		
		290	4496	-0.40	31			1.47	2122	-9.9	43	48	47	33	27	24		
		365	5659	-0.63	37			1.85	2671	-15.6	47	52	52	41	36	31		
		440	6822	-0.91	42			2.24	3219	-22.7	51	56	56	48	43	38		

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.

GRILLES | RETURN