

AFS580 / AFS585

Return Grille | Architectural, Extruded Aluminum



PERFORMANCE DATA | AFS580, AFS585 | 0° 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	540	103	-0.24	11	152 x 152	0.02	2.74	49	-6.0	38	28	15	-	-	-		
		780	149	-0.50	22			3.96	70	-12.4	40	36	31	20	15	13		
		1020	195	-0.85	29			5.18	92	-21.3	42	42	43	31	20	22		
		1260	241	-1.30	35			6.40	114	-32.4	43	46	52	40	23	29		
		1500	287	-1.85	40			7.62	136	-46.0	44	50	60	47	26	35		
10" x 6"	0.42	500	169	-0.21	12	254 x 152	0.04	2.54	80	-5.1	40	29	14	-	-	-		
		740	250	-0.45	23			3.76	118	-11.2	43	37	31	21	17	14		
		980	330	-0.79	30			4.98	156	-19.6	44	43	43	32	21	23		
		1220	411	-1.22	37			6.20	194	-30.4	45	48	53	41	25	31		
		1460	492	-1.75	42			7.42	232	-43.6	46	52	61	48	28	37		
12" x 6"	0.50	480	197	-0.19	11	305 x 152	0.05	2.44	93	-4.7	41	29	13	-	-	-		
		710	291	-0.41	22			3.61	137	-10.3	43	37	30	20	17	13		
		940	386	-0.73	30			4.78	182	-18.1	45	43	42	31	21	23		
		1170	480	-1.12	36			5.94	226	-28.0	46	48	52	40	25	30		
		1400	574	-1.61	41			7.11	271	-40.0	47	52	60	47	28	36		
12" x 8"	0.67	460	261	-0.17	11	305 x 203	0.06	2.34	123	-4.3	42	29	13	-	11	-		
		670	379	-0.37	22			3.40	179	-9.2	44	37	29	19	17	13		
		880	498	-0.64	30			4.47	235	-15.8	46	43	41	30	22	22		
		1090	617	-0.97	36			5.54	291	-24.3	47	48	50	39	25	29		
		1300	736	-1.39	41			6.60	348	-34.5	48	52	58	46	28	35		
18" x 6"	0.75	440	277	-0.16	11	457 x 152	0.07	2.24	131	-4.0	42	29	11	-	-	-		
		645	406	-0.34	21			3.28	191	-8.5	44	37	28	18	17	12		
		850	535	-0.59	29			4.32	252	-14.8	46	43	40	29	22	21		
		1055	663	-0.91	35			5.36	313	-22.7	47	48	49	38	25	28		
		1260	792	-1.30	40			6.40	374	-32.4	48	52	57	45	28	34		
22" x 6"	0.92	440	341	-0.16	12	559 x 152	0.09	2.24	161	-4.0	43	29	12	-	11	-		
		640	496	-0.34	22			3.25	234	-8.4	45	38	28	18	18	13		
		840	651	-0.58	30			4.27	307	-14.4	47	44	40	29	22	22		
		1040	806	-0.89	36			5.28	380	-22.1	48	48	50	38	26	29		
		1240	961	-1.26	41			6.30	453	-31.4	49	52	57	45	29	35		
18" x 10"	1.25	420	465	-0.14	12	457 x 254	0.12	2.13	220	-3.6	44	30	12	-	12	-		
		615	681	-0.31	23			3.12	322	-7.7	47	38	28	18	19	13		
		810	898	-0.54	30			4.11	424	-13.4	48	44	40	30	23	22		
		1005	1114	-0.83	36			5.11	526	-20.6	49	49	50	38	27	29		
		1200	1330	-1.18	41			6.10	628	-29.4	50	53	57	46	30	35		
27" x 8"	1.50	400	529	-0.13	11	686 x 203	0.14	2.03	249	-3.3	45	30	-	-	12	-		
		590	780	-0.29	22			3.00	368	-7.1	47	38	27	17	19	12		
		780	1031	-0.50	30			3.96	487	-12.4	49	44	39	29	23	22		
		970	1282	-0.77	36			4.93	605	-19.2	50	49	49	38	27	29		
		1160	1533	-1.10	41			5.89	724	-27.5	51	53	57	45	30	35		
24" x 10"	1.67	400	597	-0.13	12	610 x 254	0.15	2.03	282	-3.3	45	30	11	-	13	-		
		585	874	-0.28	22			2.97	412	-7.0	48	39	27	18	19	13		
		770	1150	-0.49	30			3.91	543	-12.1	49	45	39	29	24	22		
		955	1426	-0.75	36			4.85	673	-18.6	50	49	49	38	27	29		
		1140	1703	-1.07	41			5.79	804	-26.6	51	53	57	45	30	35		
16" x 16"	1.78	400	646	-0.13	12	406 x 406	0.17	2.03	305	-3.3	46	31	11	-	13	-		
		580	937	-0.28	23			2.95	442	-6.9	48	39	27	18	19	13		
		760	1227	-0.47	30			3.86	579	-11.8	49	45	39	29	24	22		
		940	1518	-0.73	36			4.78	716	-18.1	51	49	48	37	27	29		
		1120	1809	-1.03	41			5.69	854	-25.6	52	53	56	44	30	35		
18" x 18"	2.25	380	785	-0.12	12	457 x 457	0.21	1.93	371	-3.0	47	31	-	-	13	-		
		560	1157	-0.26	23			2.84	546	-6.4	49	39	27	17	20	13		
		740	1529	-0.45	30			3.76	722	-11.2	50	45	39	29	24	22		
		920	1901	-0.69	36			4.67	897	-17.3	52	50	49	37	28	29		
		1100	2273	-0.99	41			5.59	1073	-24.7	53	54	56	45	31	35		

NOTE: See notes on page J1-94.

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		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	360	823	-0.11	11	762 x 305	0.23	1.83	388	-2.6	47	30	-	-	13	-		
		540	1234	-0.24	22			2.74	582	-6.0	49	39	26	16	20	12		
		720	1645	-0.43	30			3.66	777	-10.6	51	45	38	28	24	21		
		900	2057	-0.66	36			4.57	971	-16.5	52	50	48	37	28	29		
		1080	2468	-0.96	41			5.49	1165	-23.8	53	54	56	44	31	35		
20" x 20"	2.78	360	926	-0.11	11	508 x 508	0.26	1.83	437	-2.6	47	30	-	-	13	-		
		535	1377	-0.23	22			2.72	650	-5.8	49	39	26	16	20	12		
		710	1827	-0.41	30			3.61	862	-10.3	51	45	38	28	25	21		
		885	2277	-0.64	36			4.50	1075	-16.0	52	50	48	37	28	29		
30" x 16"	3.33	360	1115	-0.11	12	762 x 406	0.31	1.83	526	-2.6	48	31	-	-	14	-		
		525	1626	-0.23	23			2.67	768	-5.6	50	39	26	16	20	12		
		690	2137	-0.39	30			3.51	1009	-9.7	52	45	38	27	25	21		
		855	2648	-0.60	36			4.34	1250	-14.9	53	50	47	36	29	28		
		1020	3160	-0.85	41			5.18	1491	-21.3	54	54	55	43	32	34		
36" x 14"	3.50	340	1103	-0.09	11	914 x 356	0.33	1.73	520	-2.4	48	30	-	-	13	-		
		505	1638	-0.21	22			2.57	773	-5.2	50	39	24	15	20	11		
		670	2173	-0.37	30			3.40	1026	-9.2	52	45	37	26	25	20		
		835	2708	-0.57	36			4.24	1278	-14.2	53	50	46	35	28	28		
30" x 18"	3.75	340	1191	-0.09	11	762 x 457	0.35	1.73	562	-2.4	48	30	-	-	14	-		
		505	1769	-0.21	22			2.57	835	-5.2	51	39	25	15	20	11		
		670	2348	-0.37	30			3.40	1108	-9.2	52	45	37	27	25	21		
		835	2926	-0.57	36			4.24	1381	-14.2	53	50	47	36	29	28		
		1000	3504	-0.82	41			5.08	1654	-20.4	54	54	55	43	32	34		
36" x 18"	4.50	340	1436	-0.09	12	914 x 457	0.42	1.73	678	-2.4	49	31	-	-	14	-		
		505	2132	-0.21	23			2.57	1006	-5.2	51	40	26	16	21	12		
		670	2829	-0.37	31			3.40	1335	-9.2	53	46	38	28	26	22		
		835	3526	-0.57	37			4.24	1664	-14.2	54	51	47	37	30	29		
42" x 18"	5.25	320	1581	-0.08	11	1067 x 457	0.49	1.63	746	-2.1	49	31	-	-	14	-		
		480	2372	-0.19	22			2.44	1119	-4.7	52	39	24	15	21	11		
		640	3163	-0.34	30			3.25	1493	-8.4	53	46	37	26	26	21		
		800	3953	-0.53	36			4.06	1866	-13.1	55	51	46	36	30	28		
		960	4744	-0.76	41			4.88	2239	-18.8	56	55	54	43	33	34		
30" x 28"	5.83	320	1771	-0.08	11	762 x 711	0.54	1.63	836	-2.1	50	31	-	-	15	-		
		475	2629	-0.19	22			2.41	1241	-4.6	52	40	24	15	21	11		
		630	3487	-0.33	30			3.20	1646	-8.1	54	46	36	26	26	21		
		785	4345	-0.51	36			3.99	2051	-12.6	55	51	46	35	30	28		
30" x 30"	6.25	320	1901	-0.08	12	762 x 762	0.58	1.63	897	-2.1	50	31	-	-	15	-		
		470	2792	-0.18	22			2.39	1318	-4.5	52	40	24	15	21	11		
		620	3684	-0.32	30			3.15	1738	-7.9	54	46	36	26	26	21		
		770	4575	-0.49	36			3.91	2159	-12.1	55	51	45	35	30	28		
		920	5466	-0.69	41			4.67	2580	-17.3	56	54	53	42	33	34		
46" x 22"	7.03	320	2137	-0.08	12	1168 x 559	0.65	1.63	1008	-2.1	51	32	-	-	15	-		
		465	3105	-0.18	22			2.36	1465	-4.4	53	40	24	15	22	11		
		610	4073	-0.31	30			3.10	1922	-7.6	54	46	36	26	26	20		
		755	5042	-0.47	36			3.84	2379	-11.6	56	51	45	34	30	28		
36" x 30"	7.50	300	2148	-0.07	11	914 x 762	0.70	1.52	1014	-1.8	51	31	-	-	15	-		
		450	3222	-0.17	22			2.29	1521	-4.1	53	40	23	14	21	11		
		600	4296	-0.30	30			3.05	2028	-7.4	55	46	35	25	26	20		
		750	5370	-0.46	36			3.81	2534	-11.5	56	51	45	35	30	28		
		900	6444	-0.66	41			4.57	3041	-16.5	57	55	53	42	33	34		

NOTE: See notes on page J1-94.

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		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	300	2303	-0.07	11	864 x 864	0.75	1.52	1087	-1.8	51	31	-	-	15	-	
		450	3455	-0.17	22			2.29	1631	-4.1	53	40	23	14	22	11	
		600	4607	-0.30	30			3.05	2174	-7.4	55	46	36	26	27	21	
		750	5758	-0.46	36			3.81	2718	-11.5	56	51	45	35	30	28	
		900	6910	-0.66	42			4.57	3261	-16.5	57	55	53	42	33	34	
42" x 30"	8.75	300	2514	-0.07	11	1067 x 762	0.81	1.52	1186	-1.8	51	31	-	-	15	-	
		445	3729	-0.16	22			2.26	1760	-4.0	54	40	23	14	22	11	
		590	4944	-0.29	30			3.00	2333	-7.1	55	46	35	25	27	20	
		735	6158	-0.44	36			3.73	2906	-11.0	56	51	45	34	30	28	
		880	7373	-0.64	41			4.47	3480	-15.8	57	55	53	42	33	34	
48" x 30"	10.00	300	2879	-0.07	12	1219 x 762	0.93	1.52	1359	-1.8	52	32	-	-	16	-	
		440	4223	-0.16	23			2.24	1993	-4.0	54	40	23	14	22	11	
		580	5567	-0.28	30			2.95	2627	-6.9	56	46	35	25	27	20	
		720	6910	-0.43	36			3.66	3261	-10.6	57	51	45	34	31	28	
		860	8254	-0.61	41			4.37	3895	-15.1	58	55	52	41	34	33	
42" x 36"	10.50	300	3029	-0.07	12	1067 x 914	0.98	1.52	1430	-1.8	52	32	-	-	16	-	
		435	4392	-0.16	22			2.21	2073	-3.9	54	40	23	14	22	11	
		570	5756	-0.27	30			2.90	2716	-6.6	56	46	35	25	27	20	
		705	7119	-0.41	36			3.58	3360	-10.2	57	51	44	33	31	27	
		840	8482	-0.58	41			4.27	4003	-14.4	58	55	51	41	33	33	
42" x 38"	11.08	300	3201	-0.07	12	1067 x 965	1.03	1.52	1511	-1.8	52	32	-	-	16	-	
		435	4642	-0.16	23			2.21	2191	-3.9	54	41	23	14	23	11	
		570	6082	-0.27	30			2.90	2870	-6.6	56	47	35	25	27	20	
		705	7523	-0.41	36			3.58	3550	-10.2	57	51	44	34	31	27	
		840	8963	-0.58	41			4.27	4230	-14.4	58	55	52	41	34	33	
48" x 36"	12.00	280	3239	-0.06	11	1219 x 914	1.11	1.42	1528	-1.6	52	31	-	-	15	-	
		415	4800	-0.14	22			2.11	2265	-3.5	55	40	21	13	22	-	
		550	6362	-0.25	30			2.79	3002	-6.2	56	46	34	24	27	19	
		685	7923	-0.39	36			3.48	3739	-9.6	57	51	43	33	31	27	
		820	9484	-0.55	41			4.17	4476	-13.7	58	55	51	40	34	33	
44" x 44"	13.44	280	3637	-0.06	11	1118 x 1118	1.25	1.42	1717	-1.6	53	32	-	-	16	-	
		410	5326	-0.14	22			2.08	2514	-3.4	55	40	21	13	22	-	
		540	7015	-0.24	30			2.74	3311	-6.0	57	46	33	24	27	19	
		670	8703	-0.37	36			3.40	4108	-9.2	58	51	43	33	31	27	
		800	10392	-0.53	41			4.06	4904	-13.1	59	55	50	40	34	32	
46" x 46"	14.69	280	3981	-0.06	12	1168 x 1168	1.37	1.42	1879	-1.6	53	32	-	-	16	-	
		410	5830	-0.14	22			2.08	2751	-3.4	55	41	22	13	23	11	
		540	7678	-0.24	30			2.74	3624	-6.0	57	47	34	24	27	20	
		670	9527	-0.37	36			3.40	4496	-9.2	58	51	43	33	31	27	
		800	11375	-0.53	41			4.06	5369	-13.1	59	55	51	40	34	33	
48" x 48"	16.00	280	4341	-0.06	12	1219 x 1219	1.49	1.42	2049	-1.6	54	33	-	-	17	-	
		410	6357	-0.14	23			2.08	3000	-3.4	56	41	22	13	23	11	
		540	8372	-0.24	30			2.74	3951	-6.0	57	47	34	25	28	20	
		670	10388	-0.37	36			3.40	4902	-9.2	59	52	43	33	32	27	
		800	12403	-0.53	41			4.06	5854	-13.1	60	56	51	40	35	33	

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.