

**AF80, AF580, AF880, AF5880 Performance Data: Horizontal Throw**
**IP DATA: AF80, AF580, AF880, AF5880 (NO DAMPER)**

Nom Duct	Duct Area	Neck Vel	Air Flow	0°		22.5°		45°		NC	Octave Band, dB					
				Pt	Throw	Pt	Throw	Pt	Throw		2	3	4	5	6	7
in	ft <sup>2</sup>	FPM	CFM	"WG	ft	"WG	ft	"WG	ft							
6" x 6"	0.250	400	77	.017	7 - 10 - 16	.023	5 - 8 - 12	.029	3 - 4 - 7	-	26	15	16	-	-	-
		650	124	.044	11 - 15 - 21	.060	8 - 11 - 16	.076	5 - 7 - 9	13	38	28	29	20	-	-
		900	172	.084	14 - 17 - 24	.114	11 - 13 - 19	.145	6 - 8 - 11	23	45	37	38	32	26	21
		1150	220	.137	16 - 19 - 27	.187	12 - 15 - 21	.236	7 - 9 - 12	30	51	44	44	41	38	34
		1400	268	.204	17 - 21 - 30	.277	13 - 16 - 23	.350	8 - 10 - 14	36	55	49	49	49	48	44
8" x 6"	0.330	400	106	.017	8 - 12 - 19	.023	6 - 9 - 15	.029	3 - 5 - 9	-	28	16	17	-	-	-
		650	172	.044	13 - 17 - 24	.060	10 - 13 - 19	.076	6 - 8 - 11	14	39	29	30	21	12	-
		900	238	.084	16 - 20 - 28	.114	13 - 16 - 22	.145	7 - 9 - 13	24	47	38	39	34	28	23
		1150	304	.137	19 - 23 - 32	.187	14 - 18 - 25	.236	8 - 10 - 14	31	52	45	46	43	40	35
		1400	370	.204	20 - 25 - 35	.277	16 - 19 - 27	.350	9 - 11 - 16	37	57	50	51	50	50	45
10" x 6"	0.420	400	135	.017	9 - 13 - 21	.023	7 - 10 - 17	.029	4 - 6 - 10	-	29	17	18	-	-	-
		625	211	.041	14 - 19 - 27	.055	11 - 15 - 21	.070	6 - 8 - 12	14	39	29	30	21	11	-
		850	287	.075	18 - 22 - 31	.102	14 - 17 - 24	.129	8 - 10 - 14	23	46	38	38	32	26	21
		1075	363	.120	20 - 25 - 35	.163	16 - 19 - 27	.207	9 - 11 - 16	30	52	44	45	41	38	33
		1300	438	.176	22 - 27 - 38	.239	17 - 21 - 30	.302	10 - 12 - 17	36	56	49	50	48	47	42
8" x 8"	0.440	400	146	.017	9 - 14 - 22	.023	7 - 11 - 17	.029	4 - 6 - 10	-	29	17	19	-	-	-
		625	228	.041	14 - 20 - 28	.055	11 - 15 - 22	.070	6 - 9 - 12	14	39	30	31	21	11	-
		850	310	.075	19 - 23 - 32	.102	14 - 18 - 25	.129	8 - 10 - 15	24	47	38	39	33	26	21
		1075	392	.120	21 - 26 - 36	.163	16 - 20 - 28	.207	9 - 12 - 16	31	52	44	45	42	38	33
		1300	475	.176	23 - 28 - 40	.239	18 - 22 - 31	.302	10 - 13 - 18	36	57	50	50	49	47	43
12" x 6"	0.500	400	164	.017	10 - 15 - 24	.023	7 - 11 - 18	.029	4 - 7 - 11	-	30	18	19	-	-	-
		600	246	.037	15 - 20 - 29	.051	11 - 16 - 22	.064	7 - 9 - 13	14	39	29	30	20	-	-
		800	328	.067	19 - 24 - 33	.090	15 - 18 - 26	.114	9 - 11 - 15	22	46	37	38	31	24	19
		1000	410	.104	21 - 26 - 37	.141	17 - 20 - 29	.179	10 - 12 - 17	29	51	43	44	39	35	30
		1200	492	.150	24 - 29 - 41	.204	18 - 22 - 32	.257	11 - 13 - 18	34	55	48	49	46	44	39
14" x 6"	0.580	400	193	.017	10 - 16 - 26	.023	8 - 12 - 20	.029	5 - 7 - 12	-	30	19	20	-	-	-
		600	290	.037	16 - 22 - 31	.051	12 - 17 - 24	.064	7 - 10 - 14	14	40	30	31	21	-	-
		800	386	.067	21 - 26 - 36	.090	16 - 20 - 28	.114	9 - 12 - 16	23	46	38	38	32	25	19
		1000	483	.104	23 - 29 - 40	.141	18 - 22 - 31	.179	10 - 13 - 18	30	52	44	44	40	36	31
		1200	580	.150	26 - 31 - 44	.204	20 - 24 - 34	.257	12 - 14 - 20	35	56	49	49	47	45	40
12" x 8"	0.670	400	227	.017	11 - 17 - 28	.023	9 - 13 - 21	.029	5 - 8 - 12	-	31	19	20	-	-	-
		600	340	.037	17 - 24 - 34	.051	13 - 19 - 26	.064	8 - 11 - 15	15	40	30	31	22	11	-
		800	453	.067	23 - 28 - 39	.090	18 - 21 - 30	.114	10 - 12 - 18	24	47	38	39	32	25	20
		1000	566	.104	25 - 31 - 44	.141	20 - 24 - 34	.179	11 - 14 - 20	30	52	44	45	41	36	31
		1200	680	.150	28 - 34 - 48	.204	21 - 26 - 37	.257	12 - 15 - 22	36	57	49	50	48	45	41
10" x 10"	0.690	400	238	.017	12 - 17 - 28	.023	9 - 14 - 22	.029	5 - 8 - 13	-	31	19	21	-	-	-
		600	357	.037	17 - 25 - 35	.051	14 - 19 - 27	.064	8 - 11 - 16	15	41	31	32	22	11	-
		800	475	.067	23 - 28 - 40	.090	18 - 22 - 31	.114	10 - 13 - 18	24	47	38	39	33	25	20
		1000	594	.104	26 - 32 - 45	.141	20 - 25 - 35	.179	12 - 14 - 20	31	53	45	45	41	36	32
		1200	713	.150	28 - 35 - 49	.204	22 - 27 - 38	.257	13 - 16 - 22	36	57	50	50	48	45	41
18" x 6"	0.750	400	252	.017	12 - 18 - 29	.023	9 - 14 - 23	.029	5 - 8 - 13	-	31	20	21	-	-	-
		600	377	.037	18 - 25 - 36	.051	14 - 20 - 28	.064	8 - 11 - 16	16	41	31	32	22	12	-
		800	503	.067	24 - 29 - 41	.090	18 - 23 - 32	.114	11 - 13 - 19	24	48	39	40	33	26	20
		1000	629	.104	27 - 33 - 46	.141	21 - 25 - 36	.179	12 - 15 - 21	31	53	45	46	41	37	32
		1200	755	.150	29 - 36 - 51	.204	23 - 28 - 39	.257	13 - 16 - 23	36	57	50	51	48	46	41
12" x 10"	0.833	400	289	.017	13 - 19 - 31	.023	10 - 15 - 24	.029	6 - 9 - 14	-	32	20	21	-	-	-
		600	434	.037	19 - 27 - 38	.051	15 - 21 - 30	.064	9 - 12 - 17	16	41	31	32	23	12	-
		800	578	.067	26 - 31 - 44	.090	20 - 24 - 34	.114	11 - 14 - 20	25	48	39	40	33	26	21
		1000	723	.104	29 - 35 - 49	.141	22 - 27 - 38	.179	13 - 16 - 22	31	53	45	46	42	37	32
		1200	867	.150	31 - 38 - 54	.204	24 - 30 - 42	.257	14 - 17 - 24	37	58	50	51	49	46	42
22" x 6"	0.917	400	310	.017	13 - 20 - 32	.023	10 - 15 - 25	.029	6 - 9 - 15	-	32	21	22	-	-	-
		600	465	.037	20 - 28 - 40	.051	15 - 22 - 31	.064	9 - 13 - 18	16	42	32	33	23	12	-
		800	620	.067	26 - 32 - 46	.090	20 - 25 - 35	.114	12 - 15 - 21	25	48	40	40	34	27	21
		1000	775	.104	30 - 36 - 51	.141	23 - 28 - 40	.179	13 - 16 - 23	32	54	46	46	42	38	33
		1200	930	.150	32 - 40 - 56	.204	25 - 31 - 43	.257	15 - 18 - 25	37	58	51	51	49	47	42

SUPPLY GRILLES

AF80 - AF880

NOTE: See notes on page I1-56.

**AF80, AF580, AF880, AF5880 Performance Data: Horizontal Throw**

IP DATA: AF80, AF580, AF880, AF5880 (NO DAMPER)

Nom Duct in	Duct Area ft <sup>2</sup>	Neck Vel FPM	Air Flow CFM	0°		22.5°		45°		NC	Octave Band, dB					
				Pt	Throw	Pt	Throw	Pt	Throw		2	3	4	5	6	7
				"WG	ft	"WG	ft	"WG	ft							
12" x 12"	1.000	400	352	.017	14 - 21 - 34	.023	11 - 16 - 27	.029	6 - 10 - 16	-	33	21	22	-	-	-
		575	505	.034	20 - 29 - 41	.047	16 - 23 - 32	.059	9 - 13 - 19	16	41	31	32	22	11	-
		750	659	.058	27 - 33 - 47	.079	21 - 26 - 37	.101	12 - 15 - 21	24	48	38	39	32	24	19
		925	813	.089	30 - 37 - 52	.121	23 - 29 - 41	.153	14 - 17 - 24	30	52	44	45	40	34	29
		1100	967	.126	33 - 40 - 57	.171	26 - 31 - 44	.216	15 - 18 - 26	35	56	49	50	46	43	38
18" x 10"	1.250	400	443	.017	16 - 24 - 39	.023	12 - 18 - 30	.029	7 - 11 - 17	-	34	22	23	-	-	-
		575	637	.034	23 - 33 - 46	.047	18 - 25 - 36	.059	10 - 15 - 21	17	42	32	33	23	12	-
		750	831	.058	30 - 37 - 53	.079	23 - 29 - 41	.101	13 - 17 - 24	25	49	39	40	33	25	20
		925	1025	.089	34 - 42 - 59	.121	26 - 32 - 46	.153	15 - 19 - 26	31	53	45	46	41	35	30
		1100	1219	.126	37 - 45 - 64	.171	29 - 35 - 50	.216	17 - 20 - 29	36	57	50	51	47	44	39
14" x 14"	1.361	400	488	.017	17 - 25 - 41	.023	13 - 19 - 31	.029	8 - 11 - 18	-	34	23	24	-	-	-
		575	701	.034	24 - 34 - 49	.047	19 - 27 - 38	.059	11 - 15 - 22	17	43	33	34	23	12	-
		750	914	.058	31 - 39 - 56	.079	24 - 30 - 43	.101	14 - 18 - 25	25	49	40	41	33	25	20
		925	1128	.089	36 - 44 - 62	.121	28 - 34 - 48	.153	16 - 20 - 28	31	54	46	46	41	36	31
		1100	1341	.126	39 - 48 - 67	.171	30 - 37 - 52	.216	17 - 21 - 30	36	58	50	51	48	44	39
27" x 8"	1.500	400	529	.017	17 - 26 - 42	.023	13 - 20 - 33	.029	8 - 12 - 19	-	35	23	24	-	-	-
		575	760	.034	25 - 36 - 51	.047	19 - 28 - 39	.059	11 - 16 - 23	17	43	33	34	24	13	-
		750	991	.058	33 - 41 - 58	.079	25 - 32 - 45	.101	15 - 18 - 26	25	49	40	41	34	26	20
		925	1222	.089	37 - 45 - 64	.121	29 - 35 - 50	.153	17 - 20 - 29	32	54	46	47	42	36	31
		1100	1454	.126	40 - 50 - 70	.171	31 - 38 - 54	.216	18 - 22 - 32	37	58	51	51	48	45	40
22" x 10"	1.528	400	546	.017	18 - 26 - 43	.023	14 - 21 - 33	.029	8 - 12 - 19	-	35	23	24	-	-	-
		575	785	.034	25 - 36 - 52	.047	20 - 28 - 40	.059	11 - 16 - 23	17	43	33	34	24	13	-
		750	1024	.058	33 - 42 - 59	.079	26 - 32 - 46	.101	15 - 19 - 26	25	49	40	41	34	26	21
		925	1263	.089	38 - 46 - 65	.121	29 - 36 - 51	.153	17 - 21 - 29	32	54	46	47	42	36	31
		1100	1502	.126	41 - 50 - 71	.171	32 - 39 - 55	.216	19 - 23 - 32	37	58	51	52	48	45	40
24" x 10"	1.667	300	448	.009	13 - 21 - 39	.013	10 - 16 - 30	.016	6 - 9 - 18	-	28	16	17	-	-	-
		475	709	.023	22 - 33 - 49	.032	17 - 25 - 38	.040	10 - 15 - 22	12	39	28	29	17	-	-
		650	971	.044	30 - 41 - 57	.060	23 - 31 - 44	.076	13 - 18 - 26	22	46	37	38	29	19	14
		825	1232	.071	37 - 46 - 65	.096	29 - 35 - 50	.122	17 - 21 - 29	29	52	43	44	38	31	26
		1000	1493	.104	41 - 50 - 71	.141	32 - 39 - 55	.179	18 - 23 - 32	34	57	49	49	45	40	36
18" x 14"	1.750	300	476	.009	13 - 21 - 40	.013	10 - 17 - 31	.016	6 - 10 - 18	-	29	16	17	-	-	-
		475	754	.023	23 - 34 - 50	.032	18 - 26 - 39	.040	10 - 15 - 23	12	39	28	30	17	-	-
		650	1032	.044	31 - 42 - 59	.060	24 - 32 - 46	.076	14 - 19 - 27	22	47	37	38	29	19	14
		825	1309	.071	38 - 47 - 67	.096	30 - 36 - 52	.122	17 - 21 - 30	29	52	44	44	38	31	26
		1000	1587	.104	42 - 52 - 73	.141	33 - 40 - 57	.179	19 - 23 - 33	35	57	49	50	45	41	36
16" x 16"	1.778	300	485	.009	13 - 22 - 40	.013	10 - 17 - 31	.016	6 - 10 - 18	-	29	16	17	-	-	-
		475	767	.023	23 - 34 - 51	.032	18 - 26 - 39	.040	10 - 15 - 23	12	40	29	30	17	-	-
		650	1050	.044	31 - 42 - 60	.060	24 - 33 - 46	.076	14 - 19 - 27	22	47	37	38	29	20	14
		825	1332	.071	39 - 47 - 67	.096	30 - 37 - 52	.122	17 - 21 - 30	29	52	44	44	38	31	26
		1000	1615	.104	43 - 52 - 74	.141	33 - 40 - 57	.179	19 - 24 - 33	35	57	49	50	45	41	36
24" x 12"	2.000	300	545	.009	14 - 23 - 43	.013	11 - 18 - 33	.016	6 - 10 - 19	-	29	16	18	-	-	-
		475	863	.023	24 - 36 - 54	.032	19 - 28 - 42	.040	11 - 16 - 24	13	40	29	30	18	-	-
		650	1181	.044	33 - 45 - 63	.060	26 - 35 - 49	.076	15 - 20 - 28	22	47	38	39	30	20	15
		825	1499	.071	41 - 50 - 71	.096	32 - 39 - 55	.122	18 - 23 - 32	29	53	44	45	39	32	27
		1000	1816	.104	45 - 55 - 78	.141	35 - 43 - 61	.179	20 - 25 - 35	35	57	49	50	46	41	36
18" x 18"	2.250	300	620	.009	15 - 24 - 46	.013	12 - 19 - 35	.016	7 - 11 - 21	-	30	17	18	-	-	-
		475	982	.023	26 - 39 - 58	.032	20 - 30 - 45	.040	12 - 17 - 26	14	41	30	31	18	-	-
		650	1343	.044	35 - 48 - 67	.060	27 - 37 - 52	.076	16 - 21 - 30	23	48	38	39	30	21	15
		825	1705	.071	44 - 54 - 76	.096	34 - 42 - 59	.122	20 - 24 - 34	30	53	45	46	39	32	27
		1000	2066	.104	48 - 59 - 84	.141	37 - 46 - 65	.179	22 - 27 - 38	36	58	50	51	46	42	37
24" x 14"	2.333	300	642	.009	15 - 25 - 47	.013	12 - 19 - 36	.016	7 - 11 - 21	-	30	17	18	-	-	-
		475	1016	.023	26 - 39 - 59	.032	20 - 30 - 45	.040	12 - 18 - 26	14	41	30	31	19	-	-
		650	1391	.044	36 - 48 - 69	.060	28 - 38 - 53	.076	16 - 22 - 31	23	48	38	39	30	21	15
		825	1765	.071	45 - 55 - 77	.096	35 - 42 - 60	.122	20 - 25 - 35	30	54	45	46	39	33	27
		1000	2139	.104	49 - 60 - 85	.141	38 - 47 - 66	.179	22 - 27 - 38	36	58	50	51	47	42	37

NOTE: See notes on page I1-56.

SUPPLY GRILLES

AF80 - AF880

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**AF80, AF580, AF880, AF5880 Performance Data: Horizontal Throw**
**IP DATA: AF80, AF580, AF880, AF5880 (NO DAMPER)**

Nom Duct	Duct Area	Neck Vel	Air Flow	0°		22.5°		45°		NC	Octave Band, dB						
				Pt	Throw	Pt	Throw	Pt	Throw		2	3	4	5	6	7	
				"WG	ft	"WG	ft	"WG	ft								
30" x 12"	2.500	300	686	.009	16 - 26 - 48	.013	12 - 20 - 37	.016	7 - 12 - 22	-	30	17	19	-	-	-	
		475	1085	.023	27 - 41 - 61	.032	21 - 32 - 47	.040	12 - 18 - 27	14	41	30	31	19	-	-	
		650	1485	.044	37 - 50 - 71	.060	29 - 39 - 55	.076	17 - 23 - 32	23	48	39	40	31	21	16	
		825	1885	.071	46 - 56 - 80	.096	36 - 44 - 62	.122	21 - 25 - 36	30	54	45	46	40	33	28	
		1000	2285	.104	51 - 62 - 88	.141	39 - 48 - 68	.179	23 - 28 - 40	36	58	50	51	47	42	37	
24" x 16"	2.667	300	739	.009	16 - 27 - 50	.013	13 - 21 - 39	.016	7 - 12 - 22	-	31	18	19	-	-	-	
		475	1170	.023	28 - 42 - 63	.032	22 - 33 - 49	.040	13 - 19 - 28	14	41	30	31	19	-	-	
		650	1600	.044	38 - 52 - 74	.060	30 - 40 - 57	.076	17 - 23 - 33	24	49	39	40	31	21	16	
		825	2031	.071	48 - 59 - 83	.096	37 - 45 - 64	.122	22 - 26 - 37	31	54	46	46	40	33	28	
		1000	2462	.104	53 - 65 - 91	.141	41 - 50 - 71	.179	24 - 29 - 41	36	59	51	52	47	43	38	
20" x 20"	2.778	300	772	.009	17 - 27 - 51	.013	13 - 21 - 40	.016	8 - 12 - 23	-	31	18	19	-	-	-	
		475	1222	.023	29 - 43 - 64	.032	22 - 33 - 50	.040	13 - 19 - 29	14	42	31	32	19	-	-	
		650	1673	.044	39 - 53 - 75	.060	30 - 41 - 58	.076	18 - 24 - 34	24	49	39	40	31	22	16	
		825	2123	.071	49 - 60 - 85	.096	38 - 46 - 66	.122	22 - 27 - 38	31	54	46	47	40	33	28	
		1000	2573	.104	54 - 66 - 93	.141	42 - 51 - 72	.179	24 - 30 - 42	37	59	51	52	47	43	38	
24" x 18"	3.000	300	836	.009	17 - 28 - 53	.013	14 - 22 - 41	.016	8 - 13 - 24	-	31	18	20	-	-	-	
		475	1323	.023	30 - 45 - 67	.032	23 - 35 - 52	.040	13 - 20 - 30	15	42	31	32	20	-	-	
		650	1810	.044	41 - 55 - 78	.060	32 - 43 - 61	.076	18 - 25 - 35	24	49	39	40	32	22	16	
		825	2298	.071	51 - 62 - 88	.096	39 - 48 - 68	.122	23 - 28 - 40	31	55	46	47	41	34	28	
		1000	2785	.104	56 - 69 - 97	.141	43 - 53 - 75	.179	25 - 31 - 44	37	59	51	52	48	43	38	
30" x 16"	3.333	300	929	.009	18 - 30 - 56	.013	14 - 23 - 43	.016	8 - 13 - 25	-	32	19	20	-	-	-	
		475	1471	.023	32 - 47 - 71	.032	24 - 37 - 55	.040	14 - 21 - 32	15	42	31	32	20	-	-	
		650	2013	.044	43 - 58 - 82	.060	33 - 45 - 64	.076	19 - 26 - 37	25	50	40	41	32	22	17	
		825	2556	.071	54 - 66 - 93	.096	42 - 51 - 72	.122	24 - 30 - 42	32	55	47	47	41	34	29	
		1000	3098	.104	59 - 72 - 102	.141	46 - 56 - 79	.179	27 - 33 - 46	37	60	52	53	48	44	39	
22" x 22"	3.361	300	941	.009	19 - 30 - 56	.013	14 - 23 - 44	.016	8 - 14 - 25	-	32	19	20	-	-	-	
		475	1490	.023	32 - 48 - 71	.032	25 - 37 - 55	.040	14 - 21 - 32	15	42	31	32	20	-	-	
		650	2038	.044	43 - 59 - 83	.060	34 - 45 - 64	.076	20 - 26 - 37	25	50	40	41	32	22	17	
		825	2587	.071	54 - 66 - 94	.096	42 - 51 - 72	.122	24 - 30 - 42	32	55	47	47	41	34	29	
		1000	3136	.104	59 - 73 - 103	.141	46 - 56 - 80	.179	27 - 33 - 46	37	60	52	53	48	44	39	
36" x 14"	3.500	300	973	.009	19 - 31 - 57	.013	15 - 24 - 44	.016	8 - 14 - 26	-	32	19	20	-	-	-	
		475	1541	.023	32 - 48 - 72	.032	25 - 38 - 56	.040	15 - 22 - 32	15	43	32	33	20	-	-	
		650	2108	.044	44 - 60 - 84	.060	34 - 46 - 65	.076	20 - 27 - 38	25	50	40	41	32	23	17	
		825	2676	.071	55 - 67 - 95	.096	43 - 52 - 74	.122	25 - 30 - 43	32	55	47	48	41	34	29	
		1000	3243	.104	60 - 74 - 105	.141	47 - 57 - 81	.179	27 - 33 - 47	38	60	52	53	48	44	39	
24" x 22"	3.667	300	1029	.009	19 - 31 - 59	.013	15 - 24 - 46	.016	9 - 14 - 27	-	32	19	20	-	-	-	
		450	1544	.021	31 - 47 - 72	.029	24 - 37 - 56	.036	14 - 21 - 33	14	42	30	31	19	-	-	
		600	2059	.037	42 - 59 - 83	.051	33 - 46 - 65	.064	19 - 27 - 38	23	48	38	39	29	19	13	
		750	2573	.058	52 - 66 - 93	.079	41 - 51 - 72	.101	24 - 30 - 42	29	53	44	45	38	30	25	
		900	3088	.084	59 - 72 - 102	.114	46 - 56 - 79	.145	27 - 33 - 46	35	58	49	50	45	39	34	
30" x 18"	3.750	300	1051	.009	20 - 32 - 60	.013	15 - 25 - 46	.016	9 - 14 - 27	-	32	19	21	-	-	-	
		450	1577	.021	32 - 48 - 73	.029	25 - 37 - 57	.036	14 - 21 - 33	14	42	30	32	19	-	-	
		600	2102	.037	42 - 60 - 84	.051	33 - 46 - 65	.064	19 - 27 - 38	23	48	38	39	30	19	13	
		750	2628	.058	53 - 67 - 94	.079	41 - 52 - 73	.101	24 - 30 - 42	29	54	44	45	38	30	25	
		900	3154	.084	60 - 73 - 103	.114	46 - 57 - 80	.145	27 - 33 - 46	35	58	49	50	45	39	34	
36" x 16"	4.000	300	1120	.009	20 - 33 - 62	.013	16 - 25 - 48	.016	9 - 15 - 28	-	32	20	21	-	-	-	
		450	1680	.021	33 - 49 - 75	.029	25 - 38 - 58	.036	15 - 22 - 34	14	42	31	32	19	-	-	
		600	2240	.037	44 - 62 - 87	.051	34 - 48 - 67	.064	20 - 28 - 39	23	49	39	40	30	19	14	
		750	2800	.058	55 - 69 - 97	.079	42 - 53 - 75	.101	25 - 31 - 44	30	54	45	46	38	30	25	
		900	3360	.084	62 - 75 - 107	.114	48 - 58 - 83	.145	28 - 34 - 48	35	58	50	50	45	39	34	
36" x 18"	4.500	300	1267	.009	21 - 35 - 65	.013	17 - 27 - 51	.016	10 - 16 - 29	-	33	20	21	-	-	-	
		450	1900	.021	35 - 52 - 80	.029	27 - 41 - 62	.036	16 - 24 - 36	15	42	31	32	19	-	-	
		600	2534	.037	47 - 65 - 93	.051	36 - 51 - 72	.064	21 - 29 - 42	23	49	39	40	30	20	14	
		750	3167	.058	58 - 73 - 103	.079	45 - 57 - 80	.101	26 - 33 - 47	30	54	45	46	39	31	25	
		900	3800	.084	65 - 80 - 113	.114	51 - 62 - 88	.145	29 - 36 - 51	36	59	50	51	46	40	35	

SUPPLY GRILLES

AF80 - AF880

NOTE: See notes on page 11-56.

**AF80, AF580, AF880, AF5880 Performance Data: Horizontal Throw**

IP DATA: AF80, AF580, AF880, AF5880 (NO DAMPER)

Nom Duct	Duct Area	Neck Vel	Air Flow	0°		22.5°		45°		NC	Octave Band, dB					
				Pt	Throw	Pt	Throw	Pt	Throw		2	3	4	5	6	7
				"WG	ft	"WG	ft	"WG	ft							
30" x 24"	5.000	300	1417	.009	23 - 37 - 69	.013	18 - 29 - 54	.016	10 - 17 - 31	-	33	21	22	-	-	-
		450	2125	.021	37 - 55 - 85	.029	29 - 43 - 66	.036	17 - 25 - 38	15	43	32	33	20	-	-
		600	2834	.037	49 - 69 - 98	.051	38 - 54 - 76	.064	22 - 31 - 44	24	50	40	41	31	20	15
		750	3542	.058	62 - 77 - 109	.079	48 - 60 - 85	.101	28 - 35 - 49	31	55	46	47	39	31	26
		900	4250	.084	69 - 85 - 120	.114	54 - 66 - 93	.145	31 - 38 - 54	36	59	51	52	46	40	35
42" x 18"	5.250	300	1482	.009	23 - 38 - 71	.013	18 - 29 - 55	.016	10 - 17 - 32	-	34	21	22	-	-	-
		450	2224	.021	38 - 57 - 87	.029	29 - 44 - 67	.036	17 - 25 - 39	16	43	32	33	20	-	-
		600	2965	.037	50 - 71 - 100	.051	39 - 55 - 78	.064	23 - 32 - 45	24	50	40	41	31	20	15
		750	3706	.058	63 - 79 - 112	.079	49 - 61 - 87	.101	28 - 36 - 50	31	55	46	47	39	31	26
		900	4447	.084	71 - 87 - 123	.114	55 - 67 - 95	.145	32 - 39 - 55	36	59	51	52	46	40	35
28" x 28"	5.444	300	1547	.009	24 - 39 - 72	.013	18 - 30 - 56	.016	11 - 17 - 33	-	34	21	22	-	-	-
		450	2321	.021	39 - 58 - 89	.029	30 - 45 - 69	.036	17 - 26 - 40	16	43	32	33	20	-	-
		600	3094	.037	51 - 72 - 102	.051	40 - 56 - 79	.064	23 - 33 - 46	24	50	40	41	31	21	15
		750	3868	.058	64 - 81 - 114	.079	50 - 63 - 89	.101	29 - 36 - 51	31	55	46	47	40	32	26
		900	4641	.084	72 - 89 - 125	.114	56 - 69 - 97	.145	33 - 40 - 56	36	59	51	52	46	41	36
30" x 28"	5.833	300	1661	.009	25 - 40 - 75	.013	19 - 31 - 58	.016	11 - 18 - 34	-	34	21	23	-	-	-
		450	2491	.021	40 - 60 - 92	.029	31 - 46 - 71	.036	18 - 27 - 41	16	44	32	33	21	-	-
		600	3321	.037	53 - 75 - 106	.051	41 - 58 - 82	.064	24 - 34 - 48	25	50	40	41	31	21	15
		750	4151	.058	67 - 84 - 118	.079	52 - 65 - 92	.101	30 - 38 - 53	31	56	46	47	40	32	27
		900	4982	.084	75 - 92 - 130	.114	58 - 71 - 101	.145	34 - 41 - 58	37	60	51	52	47	41	36
36" x 24"	6.000	300	1707	.009	25 - 41 - 76	.013	19 - 31 - 59	.016	11 - 18 - 34	-	34	21	23	-	-	-
		438	2493	.020	39 - 59 - 92	.027	31 - 46 - 71	.034	18 - 27 - 41	15	43	32	33	20	-	-
		575	3273	.034	52 - 74 - 105	.047	40 - 58 - 82	.059	23 - 33 - 47	23	49	39	40	30	19	13
		713	4058	.053	64 - 83 - 117	.072	50 - 64 - 91	.091	29 - 37 - 53	30	54	45	46	38	30	24
		850	4838	.075	74 - 90 - 128	.102	57 - 70 - 99	.129	33 - 41 - 58	35	59	50	51	45	38	33
30" x 30"	6.250	300	1782	.009	25 - 41 - 78	.013	20 - 32 - 60	.016	11 - 19 - 35	-	34	22	23	-	-	-
		438	2602	.020	40 - 60 - 94	.027	31 - 47 - 73	.034	18 - 27 - 42	16	43	32	33	20	-	-
		575	3416	.034	53 - 76 - 107	.047	41 - 59 - 83	.059	24 - 34 - 48	24	50	39	40	30	19	13
		713	4236	.053	66 - 85 - 120	.072	51 - 66 - 93	.091	30 - 38 - 54	30	55	45	46	38	30	24
		850	5050	.075	75 - 92 - 131	.102	58 - 72 - 101	.129	34 - 42 - 59	35	59	50	51	45	38	33
36" x 28"	7.000	300	2001	.009	27 - 44 - 82	.013	21 - 34 - 64	.016	12 - 20 - 37	-	35	22	23	-	-	-
		438	2922	.020	43 - 64 - 99	.027	33 - 50 - 77	.034	19 - 29 - 45	16	44	32	34	20	-	-
		575	3836	.034	56 - 81 - 114	.047	43 - 62 - 88	.059	25 - 36 - 51	24	50	40	41	31	20	14
		713	4756	.053	70 - 90 - 127	.072	54 - 69 - 98	.091	31 - 40 - 57	31	55	46	47	39	30	25
		850	5670	.075	80 - 98 - 138	.102	62 - 76 - 107	.129	36 - 44 - 62	36	59	51	51	45	39	34
46" x 22"	7.028	300	2003	.009	27 - 44 - 82	.013	21 - 34 - 64	.016	12 - 20 - 37	-	35	22	23	-	-	-
		438	2925	.020	43 - 64 - 99	.027	33 - 50 - 77	.034	19 - 29 - 45	16	44	32	34	20	-	-
		575	3840	.034	56 - 81 - 114	.047	43 - 62 - 88	.059	25 - 36 - 51	24	50	40	41	31	20	14
		713	4761	.053	70 - 90 - 127	.072	54 - 70 - 98	.091	31 - 40 - 57	31	55	46	47	39	30	25
		850	5676	.075	80 - 98 - 139	.102	62 - 76 - 107	.129	36 - 44 - 62	36	59	51	51	45	39	34
32" x 32"	7.111	300	2035	.009	27 - 44 - 83	.013	21 - 34 - 64	.016	12 - 20 - 37	-	35	22	23	-	-	-
		438	2970	.020	43 - 65 - 100	.027	33 - 50 - 78	.034	19 - 29 - 45	16	44	33	34	21	-	-
		575	3899	.034	57 - 81 - 115	.047	44 - 63 - 89	.059	25 - 37 - 52	24	50	40	41	31	20	14
		713	4835	.053	70 - 90 - 128	.072	54 - 70 - 99	.091	32 - 41 - 58	31	55	46	47	39	30	25
		850	5764	.075	81 - 99 - 140	.102	62 - 76 - 108	.129	36 - 44 - 63	36	59	51	52	46	39	34
36" x 30"	7.500	300	2148	.009	28 - 45 - 85	.013	22 - 35 - 66	.016	13 - 20 - 38	-	35	22	24	-	-	-
		438	3136	.020	44 - 66 - 103	.027	34 - 51 - 80	.034	20 - 30 - 46	16	44	33	34	21	-	-
		575	4117	.034	58 - 83 - 118	.047	45 - 65 - 91	.059	26 - 38 - 53	24	50	40	41	31	20	14
		713	5105	.053	72 - 93 - 131	.072	56 - 72 - 102	.091	32 - 42 - 59	31	55	46	47	39	31	25
		850	6086	.075	83 - 101 - 143	.102	64 - 79 - 111	.129	37 - 46 - 65	36	60	51	52	46	39	34
36" x 32"	8.000	300	2295	.009	29 - 47 - 88	.013	22 - 36 - 68	.016	13 - 21 - 40	-	36	23	24	-	-	-
		438	3351	.020	46 - 69 - 106	.027	35 - 53 - 82	.034	21 - 31 - 48	17	44	33	34	21	-	-
		575	4399	.034	60 - 86 - 122	.047	47 - 67 - 94	.059	27 - 39 - 55	25	51	41	42	31	20	15
		713	5454	.053	74 - 96 - 136	.072	58 - 74 - 105	.091	33 - 43 - 61	31	56	46	47	39	31	25
		850	6502	.075	86 - 105 - 148	.102	66 - 81 - 115	.129	39 - 47 - 67	36	60	51	52	46	40	34

NOTE: See notes on page 11-56.

SUPPLY GRILLES

AF80 - AF880

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**AF80, AF580, AF880, AF5880 Performance Data: Horizontal Throw**

IP DATA: AF80, AF580, AF880, AF5880 (NO DAMPER)

Nom Duct	Duct Area	Neck Vel	Air Flow	0°		22.5°		45°		NC	Octave Band, dB					
				Pt	Throw	Pt	Throw	Pt	Throw		2	3	4	5	6	7
in	ft <sup>2</sup>	FPM	CFM	"WG	ft	"WG	ft	"WG	ft							
34" x 34"	8.028	300	2303	.009	29 - 47 - 88	.013	22 - 36 - 68	.016	13 - 21 - 40	-	36	23	24	-	-	-
		438	3363	.020	46 - 69 - 107	.027	35 - 53 - 83	.034	21 - 31 - 48	17	44	33	34	21	-	-
		575	4415	.034	60 - 86 - 122	.047	47 - 67 - 95	.059	27 - 39 - 55	25	51	41	42	31	20	15
		713	5474	.053	75 - 96 - 136	.072	58 - 75 - 105	.091	34 - 43 - 61	31	56	46	47	39	31	25
		850	6526	.075	86 - 105 - 149	.102	66 - 81 - 115	.129	39 - 47 - 67	36	60	51	52	46	40	34
36" x 34"	8.500	300	2442	.009	30 - 48 - 91	.013	23 - 38 - 70	.016	13 - 22 - 41	-	36	23	24	-	-	-
		438	3565	.020	47 - 71 - 110	.027	37 - 55 - 85	.034	21 - 32 - 49	17	45	33	34	21	-	-
		575	4680	.034	62 - 89 - 126	.047	48 - 69 - 97	.059	28 - 40 - 57	25	51	41	42	32	21	15
		713	5803	.053	77 - 99 - 140	.072	59 - 77 - 109	.091	35 - 45 - 63	31	56	47	48	40	31	26
		850	6918	.075	88 - 108 - 153	.102	68 - 84 - 119	.129	40 - 49 - 69	37	60	52	52	46	40	35
42" x 30"	8.750	300	2514	.009	30 - 49 - 92	.013	23 - 38 - 71	.016	14 - 22 - 41	-	36	23	24	-	-	-
		438	3670	.020	48 - 72 - 111	.027	37 - 56 - 86	.034	22 - 32 - 50	17	45	33	35	21	-	-
		575	4818	.034	63 - 90 - 128	.047	49 - 70 - 99	.059	28 - 41 - 57	25	51	41	42	32	21	15
		713	5974	.053	78 - 100 - 142	.072	60 - 78 - 110	.091	35 - 45 - 64	31	56	47	48	40	31	26
		850	7122	.075	90 - 110 - 155	.102	69 - 85 - 120	.129	40 - 49 - 70	37	60	52	52	46	40	35
36" x 36"	9.000	300	2589	.009	31 - 50 - 94	.013	24 - 39 - 72	.016	14 - 22 - 42	-	36	23	24	-	-	-
		438	3779	.020	49 - 73 - 113	.027	38 - 56 - 88	.034	22 - 33 - 51	17	45	34	35	22	-	-
		575	4962	.034	64 - 92 - 130	.047	49 - 71 - 100	.059	29 - 41 - 58	25	51	41	42	32	21	15
		713	6152	.053	79 - 102 - 144	.072	61 - 79 - 112	.091	36 - 46 - 65	32	56	47	48	40	31	26
		850	7335	.075	91 - 111 - 157	.102	70 - 86 - 122	.129	41 - 50 - 71	37	60	52	53	47	40	35
48" x 30"	10.000	300	2879	.009	32 - 53 - 99	.013	25 - 41 - 76	.016	15 - 24 - 44	-	37	24	25	-	-	-
		438	4204	.020	51 - 77 - 119	.027	40 - 60 - 92	.034	23 - 35 - 54	17	45	34	35	22	-	-
		575	5519	.034	67 - 97 - 137	.047	52 - 75 - 106	.059	30 - 43 - 61	26	52	42	42	32	21	16
		713	6843	.053	83 - 108 - 152	.072	65 - 83 - 118	.091	38 - 48 - 68	32	57	47	48	40	32	26
		850	8158	.075	96 - 117 - 166	.102	74 - 91 - 129	.129	43 - 53 - 75	37	61	52	53	47	41	35
38" x 38"	10.028	300	2891	.009	32 - 53 - 99	.013	25 - 41 - 77	.016	15 - 24 - 44	-	37	24	25	-	-	-
		438	4221	.020	51 - 77 - 119	.027	40 - 60 - 93	.034	23 - 35 - 54	18	45	34	35	22	-	-
		575	5541	.034	67 - 97 - 137	.047	52 - 75 - 106	.059	30 - 44 - 62	26	52	42	43	32	21	16
		713	6870	.053	84 - 108 - 152	.072	65 - 84 - 118	.091	38 - 48 - 69	32	57	47	48	40	32	26
		850	8190	.075	96 - 118 - 166	.102	74 - 91 - 129	.129	43 - 53 - 75	37	61	52	53	47	41	35
42" x 36"	10.500	300	3029	.009	33 - 54 - 101	.013	26 - 42 - 78	.016	15 - 24 - 46	-	37	24	25	-	-	-
		438	4423	.020	53 - 79 - 122	.027	41 - 61 - 95	.034	24 - 35 - 55	18	46	34	35	22	-	-
		575	5806	.034	69 - 99 - 140	.047	53 - 77 - 109	.059	31 - 45 - 63	26	52	42	43	32	21	16
		713	7200	.053	86 - 110 - 156	.072	66 - 85 - 121	.091	38 - 50 - 70	32	57	48	49	41	32	27
		850	8583	.075	98 - 120 - 170	.102	76 - 93 - 132	.129	44 - 54 - 77	38	61	52	53	47	41	36
46" x 34"	10.861	300	3135	.009	34 - 55 - 103	.013	26 - 43 - 80	.016	15 - 25 - 46	-	37	24	25	-	-	-
		438	4576	.020	53 - 80 - 124	.027	41 - 62 - 96	.034	24 - 36 - 56	18	46	34	36	22	-	-
		575	6008	.034	70 - 101 - 143	.047	54 - 78 - 110	.059	32 - 45 - 64	26	52	42	43	33	22	16
		713	7450	.053	87 - 112 - 159	.072	67 - 87 - 123	.091	39 - 50 - 71	32	57	48	49	41	32	27
		850	8881	.075	100 - 123 - 173	.102	78 - 95 - 134	.129	45 - 55 - 78	38	61	53	53	47	41	36
42" x 38"	11.083	300	3201	.009	34 - 55 - 104	.013	26 - 43 - 81	.016	15 - 25 - 47	-	37	24	25	-	-	-
		438	4674	.020	54 - 81 - 126	.027	42 - 63 - 97	.034	24 - 36 - 57	18	46	34	36	22	-	-
		575	6136	.034	71 - 102 - 144	.047	55 - 79 - 112	.059	32 - 46 - 65	26	52	42	43	33	22	16
		713	7608	.053	88 - 113 - 160	.072	68 - 88 - 124	.091	40 - 51 - 72	32	57	48	49	41	32	27
		850	9070	.075	101 - 124 - 175	.102	78 - 96 - 136	.129	45 - 56 - 79	38	61	53	54	47	41	36
40" x 40"	11.111	300	3210	.009	34 - 56 - 104	.013	26 - 43 - 81	.016	15 - 25 - 47	-	37	24	25	-	-	-
		438	4686	.020	54 - 81 - 126	.027	42 - 63 - 98	.034	24 - 36 - 57	18	46	34	36	22	-	-
		575	6152	.034	71 - 102 - 144	.047	55 - 79 - 112	.059	32 - 46 - 65	26	52	42	43	33	22	16
		713	7628	.053	88 - 114 - 161	.072	68 - 88 - 124	.091	40 - 51 - 72	33	57	48	49	41	32	27
		850	9094	.075	101 - 124 - 175	.102	78 - 96 - 136	.129	46 - 56 - 79	38	61	53	54	47	41	36
48" x 36"	12.000	300	3470	.009	36 - 58 - 108	.013	28 - 45 - 84	.016	16 - 26 - 49	-	37	24	26	-	-	-
		438	5066	.020	56 - 84 - 131	.027	44 - 65 - 101	.034	25 - 38 - 59	18	46	35	36	23	-	-
		575	6651	.034	74 - 106 - 150	.047	57 - 82 - 116	.059	33 - 48 - 67	26	53	42	43	33	22	16
		713	8247	.053	92 - 118 - 167	.072	71 - 91 - 129	.091	41 - 53 - 75	33	58	48	49	41	33	27
		850	9831	.075	105 - 129 - 182	.102	82 - 100 - 141	.129	47 - 58 - 82	38	62	53	54	48	41	36

SUPPLY GRILLES

AF80 - AF880

NOTE: See notes on page 11-56.

**AF80, AF580, AF880, AF5880 Performance Data: Horizontal Throw**

IP DATA: AF80, AF580, AF880, AF5880 (NO DAMPER)

Nom Duct in	Duct Area ft <sup>2</sup>	Neck Vel FPM	Air Flow CFM	0°		22.5°		45°		NC	Octave Band, dB					
				Pt	Throw	Pt	Throw	Pt	Throw		2	3	4	5	6	7
				"WG	ft	"WG	ft	"WG	ft							
42" x 42"	12.250	300	3545	.009	36 - 58 - 109	.013	28 - 45 - 85	.016	16 - 26 - 49	-	37	25	26	-	-	-
		438	5176	.020	57 - 85 - 132	.027	44 - 66 - 103	.034	26 - 38 - 60	18	46	35	36	23	-	-
		575	6794	.034	75 - 107 - 152	.047	58 - 83 - 117	.059	34 - 48 - 68	26	53	42	43	33	22	16
		713	8425	.053	93 - 119 - 169	.072	72 - 92 - 131	.091	42 - 54 - 76	33	58	48	49	41	33	27
		850	10044	.075	106 - 130 - 184	.102	82 - 101 - 143	.129	48 - 59 - 83	38	62	53	54	48	41	36
44" x 44"	13.444	300	3897	.009	38 - 61 - 115	.013	29 - 47 - 89	.016	17 - 28 - 52	-	38	25	26	-	-	-
		413	5365	.018	56 - 84 - 135	.024	44 - 65 - 104	.030	25 - 38 - 61	17	45	34	35	21	-	-
		525	6820	.029	71 - 107 - 152	.039	55 - 83 - 118	.049	32 - 48 - 68	24	51	40	41	30	18	12
		638	8288	.042	87 - 118 - 167	.058	67 - 92 - 130	.073	39 - 53 - 75	30	55	46	47	38	28	22
		800	10392	.067	108 - 133 - 187	.090	84 - 103 - 145	.114	49 - 60 - 84	37	61	52	53	46	39	34
48" x 42"	14.000	300	4061	.009	38 - 62 - 117	.013	30 - 48 - 91	.016	17 - 28 - 53	-	38	25	26	-	-	-
		413	5590	.018	57 - 86 - 137	.024	44 - 67 - 107	.030	26 - 39 - 62	17	45	34	35	21	-	-
		525	7106	.029	73 - 109 - 155	.039	56 - 85 - 120	.049	33 - 49 - 70	24	51	40	42	30	18	12
		638	8635	.042	89 - 121 - 171	.058	69 - 94 - 132	.073	40 - 54 - 77	30	56	46	47	38	28	22
		800	10828	.067	110 - 135 - 191	.090	86 - 105 - 148	.114	50 - 61 - 86	37	61	52	53	46	39	34
46" x 46"	14.694	300	4266	.009	39 - 64 - 120	.013	31 - 50 - 93	.016	18 - 29 - 54	-	38	25	27	-	-	-
		413	5873	.018	59 - 88 - 141	.024	46 - 68 - 109	.030	26 - 40 - 63	17	46	34	35	22	-	-
		525	7465	.029	75 - 112 - 159	.039	58 - 87 - 123	.049	34 - 50 - 71	25	51	41	42	31	18	13
		638	9072	.042	91 - 124 - 175	.058	70 - 96 - 136	.073	41 - 56 - 79	30	56	46	47	38	28	23
		800	11375	.067	113 - 139 - 196	.090	88 - 107 - 152	.114	51 - 62 - 88	37	61	52	53	46	39	34
48" x 46"	15.333	300	4454	.009	40 - 65 - 123	.013	31 - 51 - 95	.016	18 - 29 - 55	-	38	26	27	-	-	-
		413	6132	.018	60 - 90 - 144	.024	47 - 70 - 112	.030	27 - 41 - 65	18	46	34	35	22	-	-
		525	7795	.029	76 - 115 - 162	.039	59 - 89 - 126	.049	34 - 52 - 73	25	51	41	42	31	19	13
		638	9473	.042	93 - 127 - 179	.058	72 - 98 - 139	.073	42 - 57 - 81	31	56	46	47	38	28	23
		800	11878	.067	116 - 142 - 200	.090	90 - 110 - 155	.114	52 - 64 - 90	37	61	52	53	47	39	34
48" x 48"	16.000	300	4651	.009	41 - 67 - 125	.013	32 - 52 - 97	.016	19 - 30 - 56	-	39	26	27	-	-	-
		413	6403	.018	61 - 92 - 147	.024	48 - 71 - 114	.030	28 - 41 - 66	18	46	34	36	22	-	-
		525	8140	.029	78 - 117 - 166	.039	60 - 91 - 129	.049	35 - 53 - 75	25	52	41	42	31	19	13
		638	9891	.042	95 - 129 - 183	.058	73 - 100 - 142	.073	43 - 58 - 82	31	56	46	47	38	28	23
		800	12403	.067	118 - 145 - 205	.090	92 - 112 - 159	.114	53 - 65 - 92	37	61	53	53	47	40	34

NOTES: Throw values are given for terminal velocities of 150, 100, 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, re 10<sup>-12</sup> 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 software for performance data not shown, including octave band data.

SUPPLY GRILLES

AF80 - AF880