

	<p>180/5180 180M/5180M These supply grilles feature individually adjustable curved blades. Available in steel or aluminum construction.</p>		<p>4880 This heavy duty, double deflection, supply grille features 1/2" front and 3/4" back blade spacing. Available in steel construction only.</p>
	<p>80/580 These single deflection supply grilles feature 3/4" blade spacing. Available in steel or aluminum construction.</p>		<p>800/5800 These single deflection, steel supply registers feature a gang-operated rear louver and 3/4" blade spacing. Available in steel or aluminum construction.</p>
	<p>585 This single deflection supply grille features 1/2" blade spacing. Available in aluminum construction only.</p>		<p>AF80/AF580 These single deflection, supply grilles feature airfoil blades at 3/4" spacing. Blades are aluminum construction only with steel or aluminum frame.</p>
	<p>880/5880 These double deflection supply grilles feature 3/4" blade spacing. Available in steel or aluminum construction.</p>		<p>AF880/AF5880 These double deflection, supply grilles feature airfoil blades at 3/4" spacing. Blades are aluminum construction only with steel or aluminum frame.</p>
	<p>5885 This double deflection supply grille features 1/2" blade spacing. Available in aluminum construction only.</p>		<p>480 This heavy duty, single deflection, supply grille features 1/2" blade spacing. Available in steel construction only.</p>

180, 5180, 180M, 5180M

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 Dimensional InformationI1-4
 Reference Charts.....I1-5
 Performance Data.....I1-6
 Engineering SpecificationI1-24

80, 580, 880, 5880, 585, 5885, 480, 4880, 800, 5800

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 Frame Styles.....I1-29
 Reference Charts.....I1-30
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AF80, AF580, AF880, AF5880

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5815

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Introduction: AF Series

The Krueger airfoil supply grilles feature individually adjustable aluminum airfoil blades, which provide an aesthetically pleasing look while improving the performance of the grille. The AF80 (steel frame) and AF580 (aluminum frame) single deflection grilles and the AF880 (steel frame) and AF5880 (aluminum frame) double deflection grilles feature the airfoil blades on 3/4" centers, available in either horizontal or vertical front blade orientation.

MODELS

- AF80 - Single Deflection, 3/4" Spacing Airfoil Grille, Steel Frame
- AF580 - Single Deflection, 3/4" Spacing Airfoil Grille, Aluminum Frame
- AF880 - Double Deflection, 3/4" Spacing Airfoil Grille, Steel Frame
- AF5880 - Double Deflection, 3/4" Spacing Airfoil Grille, Aluminum Frame

FEATURES

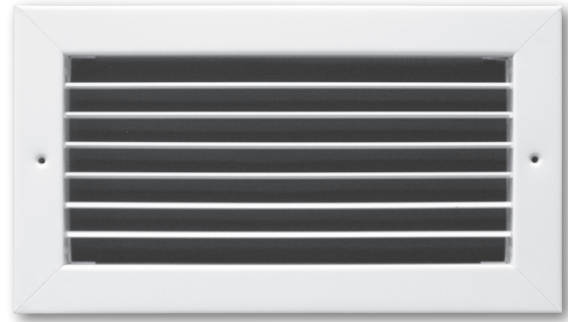
- Horizontal (H) or vertical (V) front blades.
- Fully adjustable blades.
- Extruded aluminum blades.

ACCESSORIES

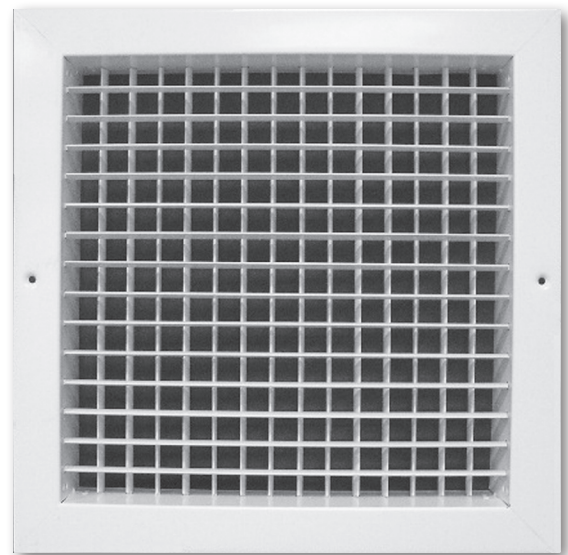
- Steel Opposed Blade Damper (Model OBD)
- Aluminum Opposed Blade Damper (Model 5OBD)
- Plaster Frame (Model 8PF & 58PF)

FINISHES

- Standard finish is #44 British White.
- Optional finishes available.



AF80

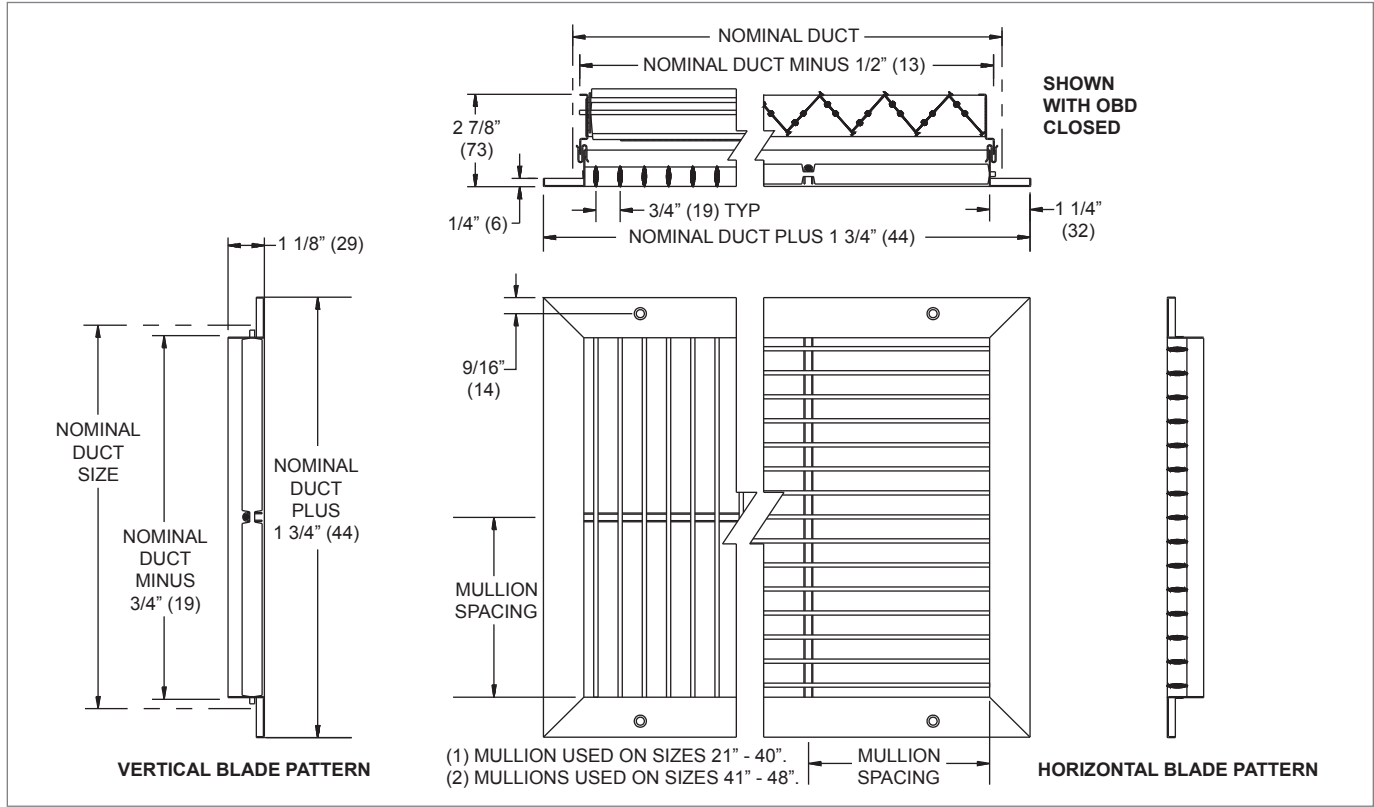


AF880

AF80, AF580, AF880, AF5880 Dimensional Information

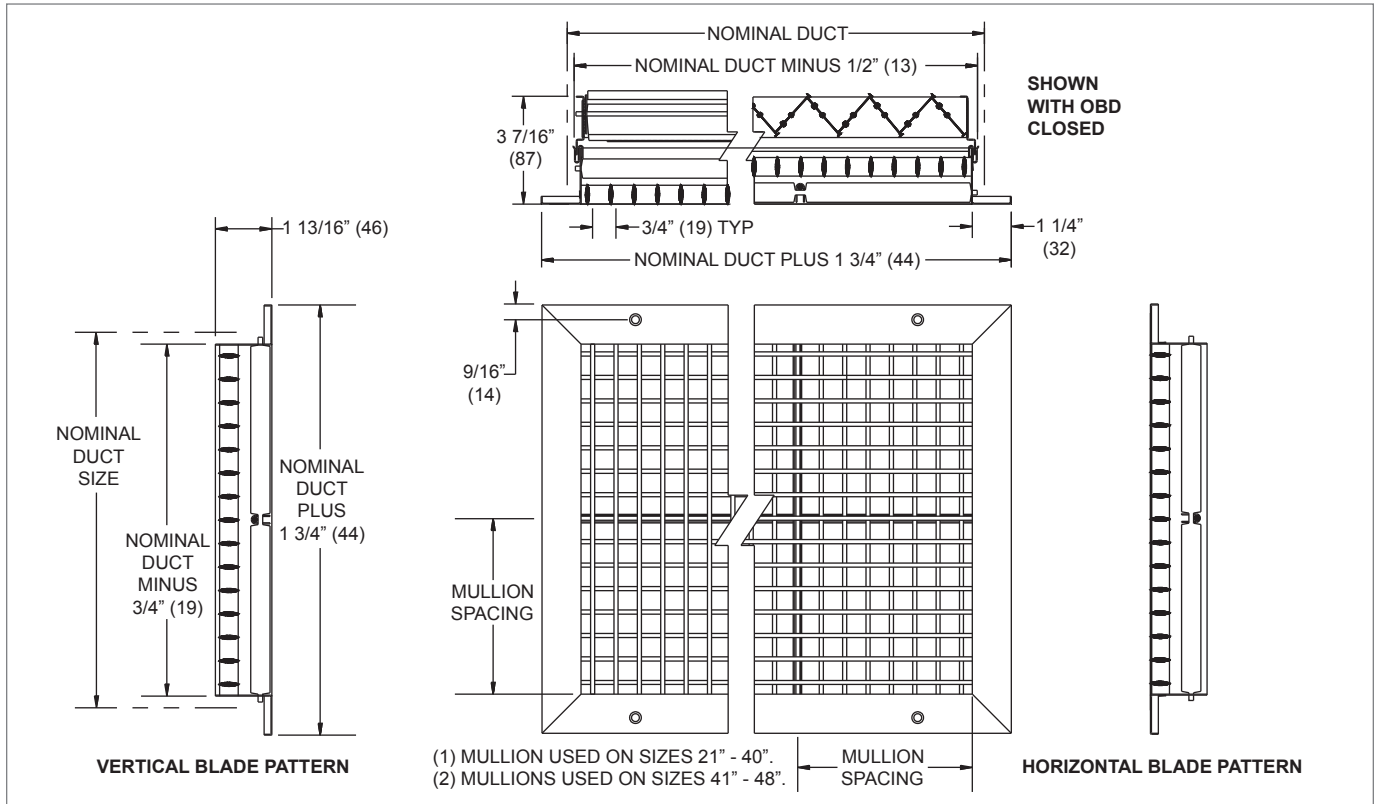
AF80, AF580 FACE VIEW, SIDE VIEW, & CROSS SECTION

SUPPLY GRILLES



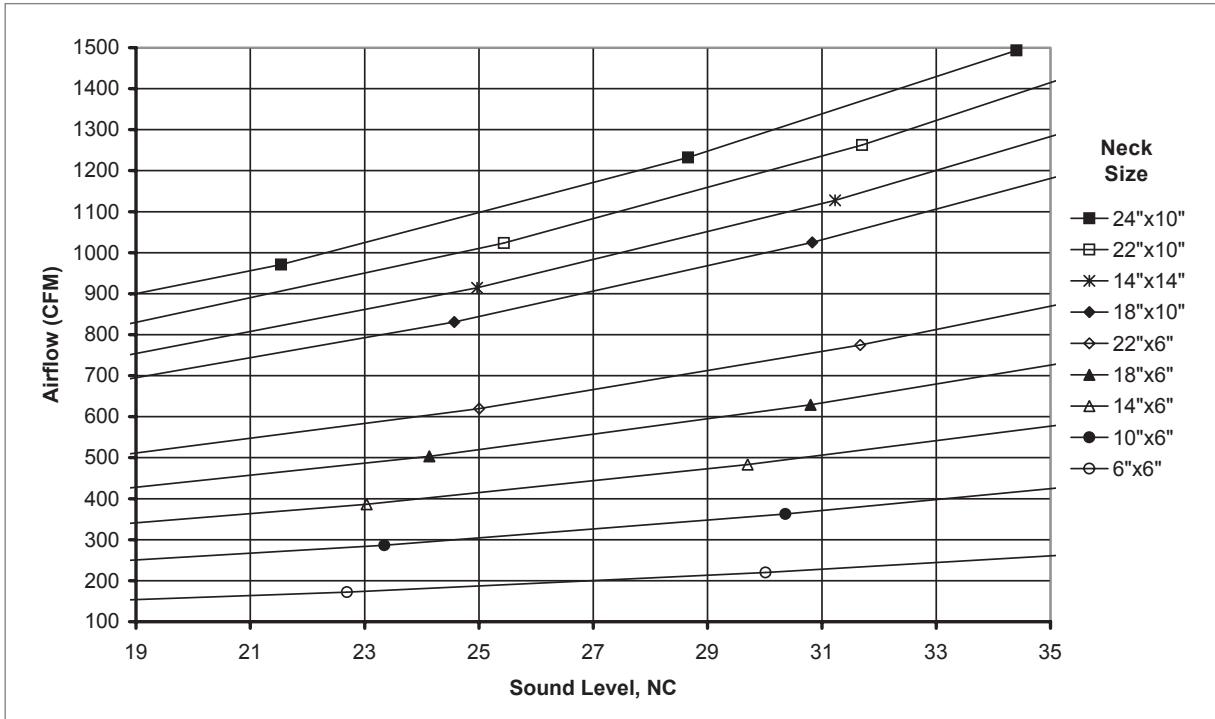
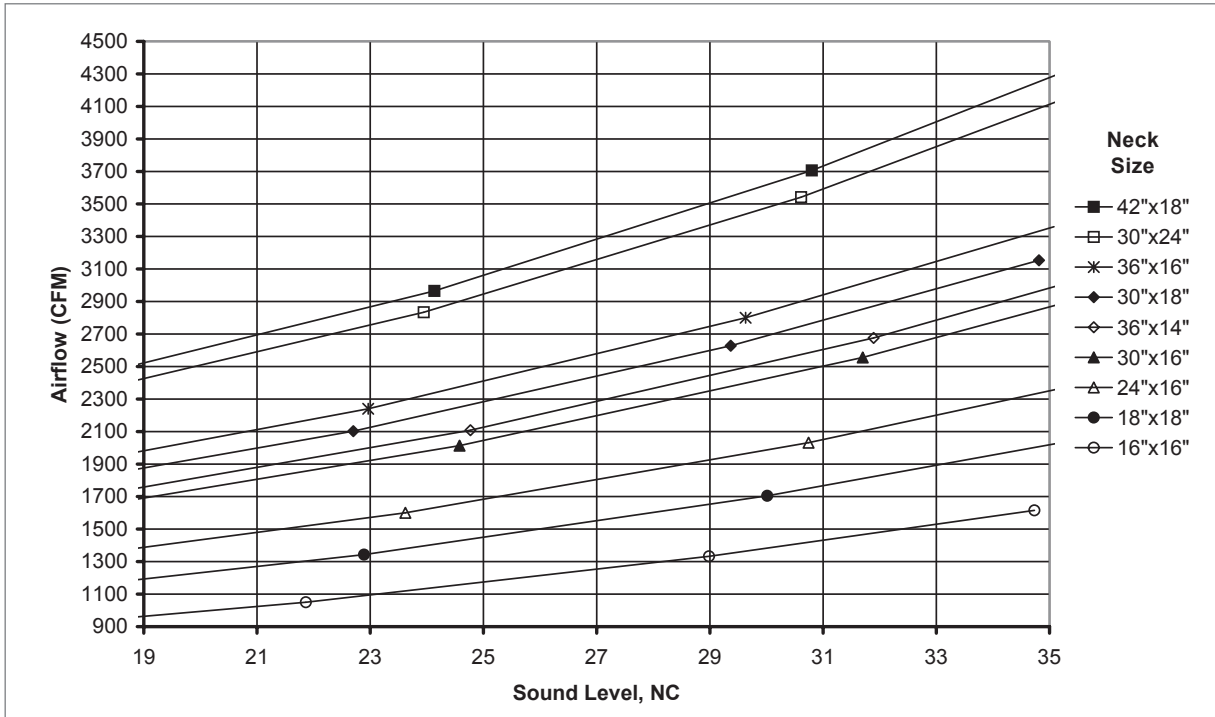
AF880, AF5880 FACE VIEW, SIDE VIEW, & CROSS SECTION

AF80 - AF880



NOTE: Dimensions in parentheses are mm.

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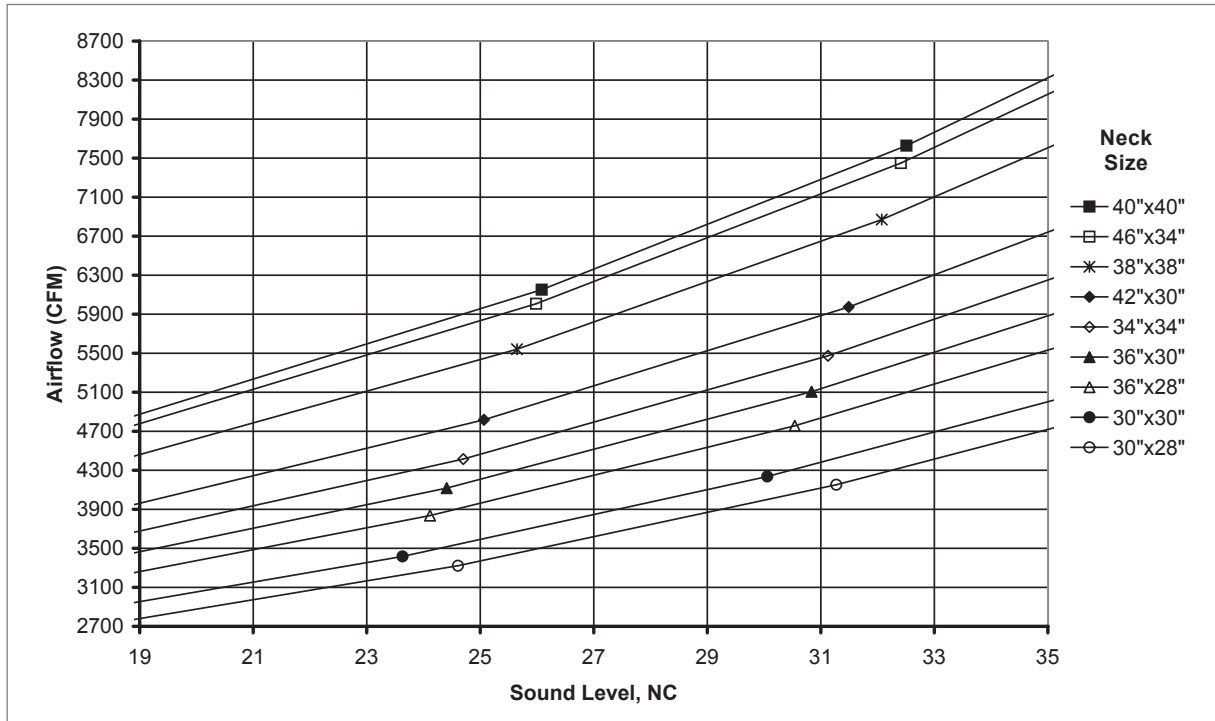
AF80, AF580, AF880, AF5880 Reference Charts
AIRFLOW VS. NC: AF80, AF580, AF880, AF5880 (NO DAMPER)

AIRFLOW VS. NC: AF80, AF580, AF880, AF5880 (NO DAMPER)


SUPPLY GRILLES

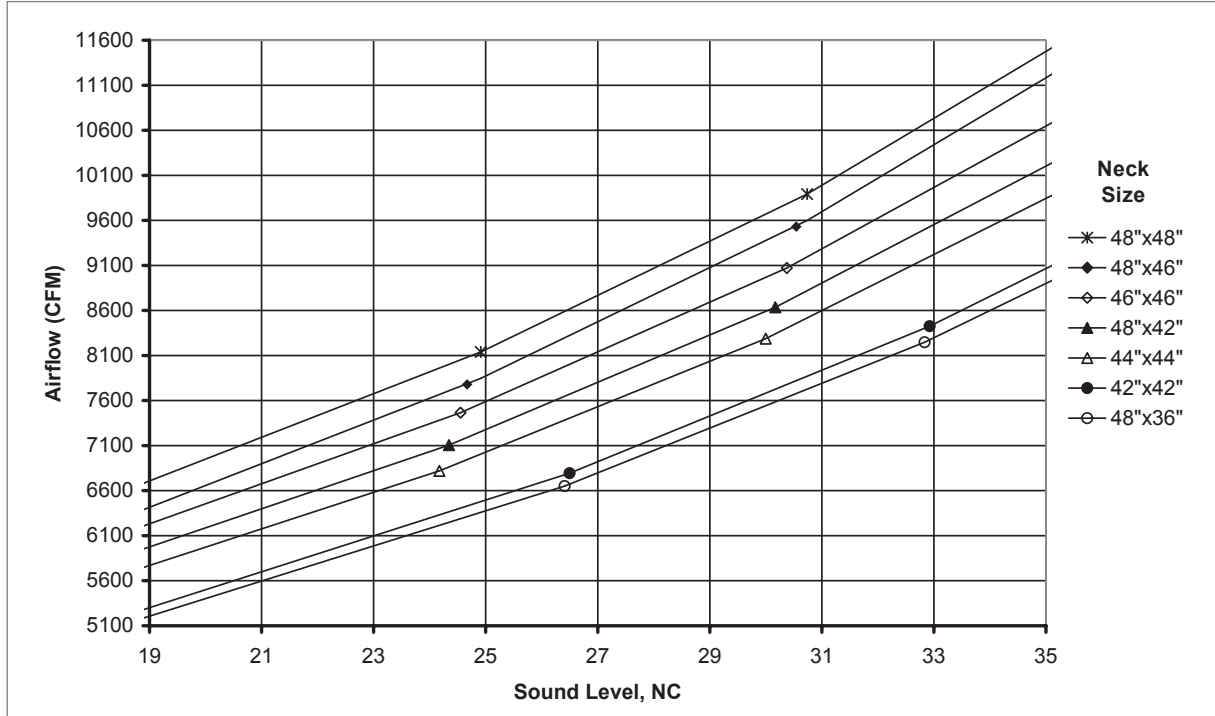
AF80 - AF880

AF80, AF580, AF880, AF5880 Reference Charts

AIRFLOW VS. NC: AF80, AF580, AF880, AF5880 (NO DAMPER)



AIRFLOW VS. NC: AF80, AF580, AF880, AF5880 (NO DAMPER)



SUPPLY GRILLES

AF80 - AF880

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 ²	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 ²	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 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	
				"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 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								
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 ²	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 10⁻¹² 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 software for performance data not shown, including octave band data.

SUPPLY GRILLES

AF80 - AF880

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

Nom Duct mm	Duct Area m ²	Neck Vel m/s	Air Flow L/s	0°		22.5°		45°		NC	Octave Band, dB					
				Pt	Throw	Pt	Throw	Pt	Throw		2	3	4	5	6	7
				Pa	m	Pa	m	Pa	m							
153 x 153	0.023	2.03	36	4.1	2.0 - 3.0 - 4.9	5.6	1.6 - 2.3 - 3.8	7.1	0.9 - 1.4 - 2.2	-	26	15	16	-	-	-
		3.30	59	10.9	3.3 - 4.4 - 6.2	14.9	2.5 - 3.4 - 4.8	18.8	1.5 - 2.0 - 2.8	13	38	28	29	20	-	-
		4.57	81	21.0	4.2 - 5.2 - 7.3	28.5	3.3 - 4.0 - 5.7	36.0	1.9 - 2.3 - 3.3	23	45	37	38	32	26	21
		5.84	104	34.2	4.8 - 5.9 - 8.3	46.5	3.7 - 4.5 - 6.4	58.9	2.2 - 2.6 - 3.7	30	51	44	44	41	38	34
		7.11	126	50.7	5.3 - 6.5 - 9.1	69.0	4.1 - 5.0 - 7.1	87.2	2.4 - 2.9 - 4.1	36	55	49	49	49	48	44
204 x 153	0.031	2.03	50	4.1	2.4 - 3.5 - 5.7	5.6	1.8 - 2.7 - 4.5	7.1	1.1 - 1.6 - 2.6	-	28	16	17	-	-	-
		3.30	81	10.9	3.8 - 5.2 - 7.3	14.9	3.0 - 4.0 - 5.7	18.8	1.7 - 2.3 - 3.3	14	39	29	30	21	12	-
		4.57	112	21.0	5.0 - 6.1 - 8.6	28.5	3.9 - 4.7 - 6.7	36.0	2.2 - 2.7 - 3.9	24	47	38	39	34	28	23
		5.84	143	34.2	5.6 - 6.9 - 9.7	46.5	4.4 - 5.3 - 7.6	58.9	2.5 - 3.1 - 4.4	31	52	45	46	43	40	35
		7.11	175	50.7	6.2 - 7.6 - 10.8	69.0	4.8 - 5.9 - 8.3	87.2	2.8 - 3.4 - 4.8	37	57	50	51	50	50	45
254 x 153	0.039	2.03	64	4.1	2.7 - 4.0 - 6.5	5.6	2.1 - 3.1 - 5.0	7.1	1.2 - 1.8 - 2.9	-	29	17	18	-	-	-
		3.18	99	10.1	4.2 - 5.7 - 8.1	13.7	3.2 - 4.4 - 6.3	17.4	1.9 - 2.6 - 3.7	14	39	29	30	21	11	-
		4.32	135	18.7	5.5 - 6.7 - 9.5	25.4	4.2 - 5.2 - 7.3	32.2	2.5 - 3.0 - 4.3	23	46	38	38	32	26	21
		5.46	171	29.9	6.1 - 7.5 - 10.6	40.7	4.8 - 5.8 - 8.2	51.4	2.8 - 3.4 - 4.8	30	52	44	45	41	38	33
		6.60	207	43.7	6.8 - 8.3 - 11.7	59.5	5.2 - 6.4 - 9.1	75.2	3.0 - 3.7 - 5.3	36	56	49	50	48	47	42
204 x 204	0.041	2.03	69	4.1	2.8 - 4.2 - 6.8	5.6	2.1 - 3.2 - 5.2	7.1	1.2 - 1.9 - 3.0	-	29	17	19	-	-	-
		3.18	108	10.1	4.3 - 6.0 - 8.4	13.7	3.4 - 4.6 - 6.5	17.4	1.9 - 2.7 - 3.8	14	39	30	31	21	11	-
		4.32	146	18.7	5.7 - 7.0 - 9.8	25.4	4.4 - 5.4 - 7.6	32.2	2.6 - 3.1 - 4.4	24	47	38	39	33	26	21
		5.46	185	29.9	6.4 - 7.8 - 11.1	40.7	5.0 - 6.1 - 8.6	51.4	2.9 - 3.5 - 5.0	31	52	44	45	42	38	33
		6.60	224	43.7	7.0 - 8.6 - 12.2	59.5	5.4 - 6.7 - 9.4	75.2	3.2 - 3.9 - 5.5	36	57	50	50	49	47	43
305 x 153	0.046	2.03	77	4.1	2.9 - 4.4 - 7.2	5.6	2.3 - 3.4 - 5.5	7.1	1.3 - 2.0 - 3.2	-	30	18	19	-	-	-
		3.05	116	9.3	4.4 - 6.2 - 8.8	12.7	3.4 - 4.8 - 6.8	16.0	2.0 - 2.8 - 3.9	14	39	29	30	20	-	-
		4.06	155	16.6	5.8 - 7.2 - 10.1	22.5	4.5 - 5.5 - 7.8	28.5	2.6 - 3.2 - 4.6	22	46	37	38	31	24	19
		5.08	194	25.9	6.5 - 8.0 - 11.3	35.2	5.1 - 6.2 - 8.8	44.5	2.9 - 3.6 - 5.1	29	51	43	44	39	35	30
		6.10	232	37.3	7.2 - 8.8 - 12.4	50.7	5.5 - 6.8 - 9.6	64.1	3.2 - 3.9 - 5.6	34	55	48	49	46	44	39
356 x 153	0.054	2.03	91	4.1	3.2 - 4.8 - 7.8	5.6	2.5 - 3.7 - 6.0	7.1	1.4 - 2.2 - 3.5	-	30	19	20	-	-	-
		3.05	137	9.3	4.8 - 6.7 - 9.5	12.7	3.7 - 5.2 - 7.4	16.0	2.2 - 3.0 - 4.3	14	40	30	31	21	-	-
		4.06	182	16.6	6.3 - 7.8 - 11.0	22.5	4.9 - 6.0 - 8.5	28.5	2.9 - 3.5 - 4.9	23	46	38	38	32	25	19
		5.08	228	25.9	7.1 - 8.7 - 12.3	35.2	5.5 - 6.7 - 9.5	44.5	3.2 - 3.9 - 5.5	30	52	44	44	40	36	31
		6.10	274	37.3	7.8 - 9.5 - 13.5	50.7	6.0 - 7.4 - 10.4	64.1	3.5 - 4.3 - 6.1	35	56	49	49	47	45	40
305 x 204	0.062	2.03	107	4.1	3.5 - 5.2 - 8.4	5.6	2.7 - 4.0 - 6.5	7.1	1.6 - 2.3 - 3.8	-	31	19	20	-	-	-
		3.05	160	9.3	5.2 - 7.3 - 10.3	12.7	4.0 - 5.6 - 8.0	16.0	2.3 - 3.3 - 4.6	15	40	30	31	22	11	-
		4.06	214	16.6	6.9 - 8.4 - 11.9	22.5	5.3 - 6.5 - 9.2	28.5	3.1 - 3.8 - 5.4	24	47	38	39	32	25	20
		5.08	267	25.9	7.7 - 9.4 - 13.3	35.2	6.0 - 7.3 - 10.3	44.5	3.5 - 4.2 - 6.0	30	52	44	45	41	36	31
		6.10	321	37.3	8.4 - 10.3 - 14.6	50.7	6.5 - 8.0 - 11.3	64.1	3.8 - 4.6 - 6.6	36	57	49	50	48	45	41
254 x 254	0.064	2.03	112	4.1	3.5 - 5.3 - 8.6	5.6	2.7 - 4.1 - 6.7	7.1	1.6 - 2.4 - 3.9	-	31	19	21	-	-	-
		3.05	168	9.3	5.3 - 7.5 - 10.6	12.7	4.1 - 5.8 - 8.2	16.0	2.4 - 3.4 - 4.7	15	41	31	32	22	11	-
		4.06	224	16.6	7.0 - 8.6 - 12.2	22.5	5.5 - 6.7 - 9.4	28.5	3.2 - 3.9 - 5.5	24	47	38	39	33	25	20
		5.08	280	25.9	7.9 - 9.6 - 13.6	35.2	6.1 - 7.5 - 10.6	44.5	3.5 - 4.3 - 6.1	31	53	45	45	41	36	32
		6.10	337	37.3	8.6 - 10.6 - 14.9	50.7	6.7 - 8.2 - 11.6	64.1	3.9 - 4.7 - 6.7	36	57	50	50	48	45	41
458 x 153	0.070	2.03	119	4.1	3.6 - 5.5 - 8.9	5.6	2.8 - 4.2 - 6.9	7.1	1.6 - 2.5 - 4.0	-	31	20	21	-	-	-
		3.05	178	9.3	5.5 - 7.7 - 10.9	12.7	4.2 - 5.9 - 8.4	16.0	2.5 - 3.5 - 4.9	16	41	31	32	22	12	-
		4.06	237	16.6	7.2 - 8.9 - 12.5	22.5	5.6 - 6.9 - 9.7	28.5	3.3 - 4.0 - 5.6	24	48	39	40	33	26	20
		5.08	297	25.9	8.1 - 9.9 - 14.0	35.2	6.3 - 7.7 - 10.9	44.5	3.6 - 4.5 - 6.3	31	53	45	46	41	37	32
		6.10	356	37.3	8.9 - 10.9 - 15.4	50.7	6.9 - 8.4 - 11.9	64.1	4.0 - 4.9 - 6.9	36	57	50	51	48	46	41
305 x 254	0.077	2.03	136	4.1	3.9 - 5.9 - 9.5	5.6	3.0 - 4.5 - 7.4	7.1	1.8 - 2.6 - 4.3	-	32	20	21	-	-	-
		3.05	205	9.3	5.9 - 8.2 - 11.6	12.7	4.5 - 6.4 - 9.0	16.0	2.6 - 3.7 - 5.2	16	41	31	32	23	12	-
		4.06	273	16.6	7.8 - 9.5 - 13.4	22.5	6.0 - 7.4 - 10.4	28.5	3.5 - 4.3 - 6.0	25	48	39	40	33	26	21
		5.08	341	25.9	8.7 - 10.6 - 15.0	35.2	6.7 - 8.2 - 11.6	44.5	3.9 - 4.8 - 6.8	31	53	45	46	42	37	32
		6.10	409	37.3	9.5 - 11.6 - 16.5	50.7	7.4 - 9.0 - 12.8	64.1	4.3 - 5.2 - 7.4	37	58	50	51	49	46	42
559 x 153	0.085	2.03	146	4.1	4.0 - 6.1 - 9.8	5.6	3.1 - 4.7 - 7.6	7.1	1.8 - 2.7 - 4.4	-	32	21	22	-	-	-
		3.05	219	9.3	6.1 - 8.5 - 12.0	12.7	4.7 - 6.6 - 9.3	16.0	2.7 - 3.8 - 5.4	16	42	32	33	23	12	-
		4.06	293	16.6	8.0 - 9.8 - 13.9	22.5	6.2 - 7.6 - 10.8	28.5	3.6 - 4.4 - 6.3	25	48	40	40	34	27	21
		5.08	366	25.9	9.0 - 11.0 - 15.6	35.2	7.0 - 8.5 - 12.1	44.5	4.0 - 5.0 - 7.0	32	54	46	46	42	38	33
		6.10	439	37.3	9.8 - 12.0 - 17.0	50.7	7.6 - 9.3 - 13.2	64.1	4.4 - 5.4 - 7.7	37	58	51	51	49	47	42

NOTE: See notes on page 11-62.

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

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

Nom Duct mm	Duct Area m ²	Neck Vel m/s	Air Flow L/s	0°		22.5°		45°		NC	Octave Band, dB					
				Pt	Throw	Pt	Throw	Pt	Throw		2	3	4	5	6	7
				Pa	m	Pa	m	Pa	m							
305 x 305	0.093	2.03	166	4.1	4.3 - 6.5 - 10.5	5.6	3.3 - 5.0 - 8.1	7.1	1.9 - 2.9 - 4.7	-	33	21	22	-	-	-
		2.92	239	8.6	6.2 - 8.9 - 12.6	11.6	4.8 - 6.9 - 9.7	14.7	2.8 - 4.0 - 5.7	16	41	31	32	22	11	-
		3.81	311	14.6	8.1 - 10.1 - 14.3	19.8	6.3 - 7.9 - 11.1	25.0	3.6 - 4.6 - 6.5	24	48	38	39	32	24	19
		4.70	384	22.1	9.2 - 11.3 - 15.9	30.1	7.1 - 8.7 - 12.4	38.1	4.1 - 5.1 - 7.2	30	52	44	45	40	34	29
		5.59	456	31.3	10.0 - 12.3 - 17.4	42.6	7.8 - 9.5 - 13.5	53.8	4.5 - 5.5 - 7.8	35	56	49	50	46	43	38
458 x 254	0.116	2.03	209	4.1	4.8 - 7.2 - 11.8	5.6	3.7 - 5.6 - 9.1	7.1	2.2 - 3.3 - 5.3	-	34	22	23	-	-	-
		2.92	301	8.6	6.9 - 10.0 - 14.1	11.6	5.4 - 7.7 - 10.9	14.7	3.1 - 4.5 - 6.3	17	42	32	33	23	12	-
		3.81	392	14.6	9.1 - 11.4 - 16.1	19.8	7.0 - 8.8 - 12.5	25.0	4.1 - 5.1 - 7.3	25	49	39	40	33	25	20
		4.70	484	22.1	10.3 - 12.7 - 17.9	30.1	8.0 - 9.8 - 13.9	38.1	4.6 - 5.7 - 8.1	31	53	45	46	41	35	30
		5.59	575	31.3	11.3 - 13.8 - 19.5	42.6	8.7 - 10.7 - 15.1	53.8	5.1 - 6.2 - 8.8	36	57	50	51	47	44	39
356 x 356	0.126	2.03	230	4.1	5.1 - 7.6 - 12.3	5.6	3.9 - 5.9 - 9.6	7.1	2.3 - 3.4 - 5.6	-	34	23	24	-	-	-
		2.92	331	8.6	7.3 - 10.5 - 14.8	11.6	5.6 - 8.1 - 11.5	14.7	3.3 - 4.7 - 6.7	17	43	33	34	23	12	-
		3.81	432	14.6	9.5 - 12.0 - 16.9	19.8	7.4 - 9.3 - 13.1	25.0	4.3 - 5.4 - 7.6	25	49	40	41	33	25	20
		4.70	532	22.1	10.8 - 13.3 - 18.8	30.1	8.4 - 10.3 - 14.5	38.1	4.9 - 6.0 - 8.4	31	54	46	46	41	36	31
		5.59	633	31.3	11.8 - 14.5 - 20.5	42.6	9.2 - 11.2 - 15.9	53.8	5.3 - 6.5 - 9.2	36	58	50	51	48	44	39
686 x 204	0.139	2.03	249	4.1	5.3 - 7.9 - 12.9	5.6	4.1 - 6.1 - 10.0	7.1	2.4 - 3.6 - 5.8	-	35	23	24	-	-	-
		2.92	359	8.6	7.6 - 10.9 - 15.4	11.6	5.9 - 8.4 - 11.9	14.7	3.4 - 4.9 - 6.9	17	43	33	34	24	13	-
		3.81	468	14.6	9.9 - 12.4 - 17.6	19.8	7.7 - 9.6 - 13.6	25.0	4.5 - 5.6 - 7.9	25	49	40	41	34	26	20
		4.70	577	22.1	11.3 - 13.8 - 19.5	30.1	8.7 - 10.7 - 15.1	38.1	5.1 - 6.2 - 8.8	32	54	46	47	42	36	31
		5.59	686	31.3	12.3 - 15.1 - 21.3	42.6	9.5 - 11.7 - 16.5	53.8	5.5 - 6.8 - 9.6	37	58	51	51	48	45	40
559 x 254	0.142	2.03	258	4.1	5.4 - 8.0 - 13.1	5.6	4.2 - 6.2 - 10.1	7.1	2.4 - 3.6 - 5.9	-	35	23	24	-	-	-
		2.92	370	8.6	7.7 - 11.1 - 15.7	11.6	6.0 - 8.6 - 12.1	14.7	3.5 - 5.0 - 7.0	17	43	33	34	24	13	-
		3.81	483	14.6	10.1 - 12.6 - 17.9	19.8	7.8 - 9.8 - 13.9	25.0	4.5 - 5.7 - 8.0	25	49	40	41	34	26	21
		4.70	596	22.1	11.5 - 14.0 - 19.9	30.1	8.9 - 10.9 - 15.4	38.1	5.2 - 6.3 - 8.9	32	54	46	47	42	36	31
		5.59	709	31.3	12.5 - 15.3 - 21.7	42.6	9.7 - 11.9 - 16.8	53.8	5.6 - 6.9 - 9.7	37	58	51	52	48	45	40
610 x 254	0.155	1.52	211	2.3	3.9 - 6.3 - 11.8	3.2	3.0 - 4.9 - 9.2	4.0	1.7 - 2.8 - 5.3	-	28	16	17	-	-	-
		2.41	335	5.8	6.7 - 10.0 - 14.9	7.9	5.2 - 7.7 - 11.5	10.0	3.0 - 4.5 - 6.7	12	39	28	29	17	-	-
		3.30	458	10.9	9.1 - 12.3 - 17.4	14.9	7.1 - 9.5 - 13.5	18.8	4.1 - 5.5 - 7.8	22	46	37	38	29	19	14
		4.19	582	17.6	11.3 - 13.9 - 19.6	24.0	8.8 - 10.8 - 15.2	30.3	5.1 - 6.2 - 8.8	29	52	43	44	38	31	26
		5.08	705	25.9	12.5 - 15.3 - 21.6	35.2	9.7 - 11.8 - 16.7	44.5	5.6 - 6.9 - 9.7	34	57	49	49	45	40	36
458 x 356	0.163	1.52	225	2.3	4.0 - 6.5 - 12.2	3.2	3.1 - 5.0 - 9.5	4.0	1.8 - 2.9 - 5.5	-	29	16	17	-	-	-
		2.41	356	5.8	6.9 - 10.3 - 15.3	7.9	5.3 - 8.0 - 11.9	10.0	3.1 - 4.6 - 6.9	12	39	28	30	17	-	-
		3.30	487	10.9	9.4 - 12.7 - 18.0	14.9	7.3 - 9.8 - 13.9	18.8	4.2 - 5.7 - 8.1	22	47	37	38	29	19	14
		4.19	618	17.6	11.7 - 14.3 - 20.2	24.0	9.0 - 11.1 - 15.7	30.3	5.3 - 6.4 - 9.1	29	52	44	44	38	31	26
		5.08	749	25.9	12.9 - 15.7 - 22.3	35.2	10.0 - 12.2 - 17.3	44.5	5.8 - 7.1 - 10.0	35	57	49	50	45	41	36
407 x 407	0.165	1.52	229	2.3	4.0 - 6.6 - 12.3	3.2	3.1 - 5.1 - 9.5	4.0	1.8 - 3.0 - 5.5	-	29	16	17	-	-	-
		2.41	362	5.8	6.9 - 10.4 - 15.5	7.9	5.4 - 8.1 - 12.0	10.0	3.1 - 4.7 - 7.0	12	40	29	30	17	-	-
		3.30	495	10.9	9.5 - 12.8 - 18.1	14.9	7.3 - 9.9 - 14.0	18.8	4.3 - 5.8 - 8.1	22	47	37	38	29	20	14
		4.19	629	17.6	11.8 - 14.4 - 20.4	24.0	9.1 - 11.2 - 15.8	30.3	5.3 - 6.5 - 9.2	29	52	44	44	38	31	26
		5.08	762	25.9	13.0 - 15.9 - 22.5	35.2	10.0 - 12.3 - 17.4	44.5	5.8 - 7.1 - 10.1	35	57	49	50	45	41	36
610 x 305	0.186	1.52	257	2.3	4.3 - 7.0 - 13.0	3.2	3.3 - 5.4 - 10.1	4.0	1.9 - 3.1 - 5.9	-	29	16	18	-	-	-
		2.41	407	5.8	7.3 - 11.0 - 16.4	7.9	5.7 - 8.5 - 12.7	10.0	3.3 - 5.0 - 7.4	13	40	29	30	18	-	-
		3.30	557	10.9	10.1 - 13.6 - 19.2	14.9	7.8 - 10.5 - 14.9	18.8	4.5 - 6.1 - 8.6	22	47	38	39	30	20	15
		4.19	707	17.6	12.5 - 15.3 - 21.6	24.0	9.7 - 11.9 - 16.8	30.3	5.6 - 6.9 - 9.7	29	53	44	45	39	32	27
		5.08	857	25.9	13.8 - 16.8 - 23.8	35.2	10.7 - 13.1 - 18.5	44.5	6.2 - 7.6 - 10.7	35	57	49	50	46	41	36
458 x 458	0.209	1.52	293	2.3	4.6 - 7.4 - 13.9	3.2	3.5 - 5.8 - 10.8	4.0	2.1 - 3.3 - 6.3	-	30	17	18	-	-	-
		2.41	463	5.8	7.8 - 11.8 - 17.5	7.9	6.1 - 9.1 - 13.6	10.0	3.5 - 5.3 - 7.9	14	41	30	31	18	-	-
		3.30	634	10.9	10.7 - 14.5 - 20.5	14.9	8.3 - 11.2 - 15.9	18.8	4.8 - 6.5 - 9.2	23	48	38	39	30	21	15
		4.19	805	17.6	13.3 - 16.3 - 23.1	24.0	10.3 - 12.6 - 17.9	30.3	6.0 - 7.3 - 10.4	30	53	45	46	39	32	27
		5.08	975	25.9	14.7 - 18.0 - 25.4	35.2	11.4 - 13.9 - 19.7	44.5	6.6 - 8.1 - 11.4	36	58	50	51	46	42	37
610 x 356	0.217	1.52	303	2.3	4.6 - 7.6 - 14.2	3.2	3.6 - 5.9 - 11.0	4.0	2.1 - 3.4 - 6.4	-	30	17	18	-	-	-
		2.41	480	5.8	8.0 - 12.0 - 17.8	7.9	6.2 - 9.3 - 13.8	10.0	3.6 - 5.4 - 8.0	14	41	30	31	19	-	-
		3.30	656	10.9	10.9 - 14.7 - 20.8	14.9	8.5 - 11.4 - 16.2	18.8	4.9 - 6.6 - 9.4	23	48	38	39	30	21	15
		4.19	833	17.6	13.6 - 16.6 - 23.5	24.0	10.5 - 12.9 - 18.2	30.3	6.1 - 7.5 - 10.6	30	54	45	46	39	33	27
		5.08	1010	25.9	14.9 - 18.3 - 25.9	35.2	11.6 - 14.2 - 20.0	44.5	6.7 - 8.2 - 11.6	36	58	50	51	47	42	37

NOTE: See notes on page I1-62.

SUPPLY GRILLES

AF80 - AF880

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

Nom Duct mm	Duct Area m ²	Neck Vel m/s	Air Flow L/s	0°		22.5°		45°		NC	Octave Band, dB						
				Pt	Throw	Pt	Throw	Pt	Throw		2	3	4	5	6	7	
				Pa	m	Pa	m	Pa	m								
762 x 305	0.232	1.52	324	2.3	4.8 - 7.8 - 14.6	3.2	3.7 - 6.0 - 11.3	4.0	2.2 - 3.5 - 6.6	-	30	17	19	-	-	-	
		2.41	512	5.8	8.2 - 12.4 - 18.4	7.9	6.4 - 9.6 - 14.3	10.0	3.7 - 5.6 - 8.3	14	41	30	31	19	-	-	
		3.30	701	10.9	11.3 - 15.2 - 21.5	14.9	8.7 - 11.8 - 16.7	18.8	5.1 - 6.9 - 9.7	23	48	39	40	31	21	16	
		4.19	890	17.6	14.0 - 17.2 - 24.3	24.0	10.9 - 13.3 - 18.8	30.3	6.3 - 7.7 - 10.9	30	54	45	46	40	33	28	
		5.08	1078	25.9	15.4 - 18.9 - 26.7	35.2	12.0 - 14.6 - 20.7	44.5	6.9 - 8.5 - 12.0	36	58	50	51	47	42	37	
610 x 407	0.248	1.52	349	2.3	5.0 - 8.1 - 15.2	3.2	3.9 - 6.3 - 11.8	4.0	2.2 - 3.6 - 6.8	-	31	18	19	-	-	-	
		2.41	552	5.8	8.6 - 12.8 - 19.1	7.9	6.6 - 9.9 - 14.8	10.0	3.8 - 5.8 - 8.6	14	41	30	31	19	-	-	
		3.30	755	10.9	11.7 - 15.8 - 22.4	14.9	9.1 - 12.3 - 17.3	18.8	5.3 - 7.1 - 10.1	24	49	39	40	31	21	16	
		4.19	959	17.6	14.5 - 17.8 - 25.2	24.0	11.3 - 13.8 - 19.5	30.3	6.5 - 8.0 - 11.3	31	54	46	46	40	33	28	
		5.08	1162	25.9	16.0 - 19.6 - 27.7	35.2	12.4 - 15.2 - 21.5	44.5	7.2 - 8.8 - 12.5	36	59	51	52	47	43	38	
508 x 508	0.258	1.52	364	2.3	5.1 - 8.3 - 15.5	3.2	4.0 - 6.4 - 12.0	4.0	2.3 - 3.7 - 7.0	-	31	18	19	-	-	-	
		2.41	577	5.8	8.7 - 13.1 - 19.5	7.9	6.8 - 10.2 - 15.1	10.0	3.9 - 5.9 - 8.8	14	42	31	32	19	-	-	
		3.30	789	10.9	12.0 - 16.2 - 22.9	14.9	9.3 - 12.5 - 17.7	18.8	5.4 - 7.3 - 10.3	24	49	39	40	31	22	16	
		4.19	1002	17.6	14.9 - 18.2 - 25.8	24.0	11.5 - 14.1 - 20.0	30.3	6.7 - 8.2 - 11.6	31	54	46	47	40	33	28	
		5.08	1214	25.9	16.4 - 20.0 - 28.4	35.2	12.7 - 15.5 - 22.0	44.5	7.4 - 9.0 - 12.8	37	59	51	52	47	43	38	
610 x 458	0.279	1.52	394	2.3	5.3 - 8.6 - 16.2	3.2	4.1 - 6.7 - 12.5	4.0	2.4 - 3.9 - 7.3	-	31	18	20	-	-	-	
		2.41	624	5.8	9.1 - 13.6 - 20.3	7.9	7.0 - 10.6 - 15.8	10.0	4.1 - 6.1 - 9.1	15	42	31	32	20	-	-	
		3.30	854	10.9	12.4 - 16.8 - 23.8	14.9	9.6 - 13.0 - 18.4	18.8	5.6 - 7.6 - 10.7	24	49	39	40	32	22	16	
		4.19	1084	17.6	15.5 - 18.9 - 26.8	24.0	12.0 - 14.7 - 20.8	30.3	7.0 - 8.5 - 12.1	31	55	46	47	41	34	28	
		5.08	1314	25.9	17.0 - 20.9 - 29.5	35.2	13.2 - 16.2 - 22.9	44.5	7.7 - 9.4 - 13.3	37	59	51	52	48	43	38	
762 x 407	0.310	1.52	439	2.3	5.6 - 9.1 - 17.0	3.2	4.3 - 7.0 - 13.2	4.0	2.5 - 4.1 - 7.7	-	32	19	20	-	-	-	
		2.41	694	5.8	9.6 - 14.4 - 21.4	7.9	7.4 - 11.2 - 16.6	10.0	4.3 - 6.5 - 9.6	15	42	31	32	20	-	-	
		3.30	950	10.9	13.1 - 17.7 - 25.1	14.9	10.2 - 13.7 - 19.4	18.8	5.9 - 8.0 - 11.3	25	50	40	41	32	22	17	
		4.19	1206	17.6	16.3 - 20.0 - 28.3	24.0	12.6 - 15.5 - 21.9	30.3	7.3 - 9.0 - 12.7	32	55	47	47	41	34	29	
		5.08	1462	25.9	18.0 - 22.0 - 31.1	35.2	13.9 - 17.0 - 24.1	44.5	8.1 - 9.9 - 14.0	37	60	52	53	48	44	39	
559 x 559	0.312	1.52	444	2.3	5.6 - 9.1 - 17.1	3.2	4.4 - 7.1 - 13.3	4.0	2.5 - 4.1 - 7.7	-	32	19	20	-	-	-	
		2.41	703	5.8	9.7 - 14.5 - 21.6	7.9	7.5 - 11.2 - 16.7	10.0	4.3 - 6.5 - 9.7	15	42	31	32	20	-	-	
		3.30	962	10.9	13.2 - 17.8 - 25.2	14.9	10.2 - 13.8 - 19.6	18.8	5.9 - 8.0 - 11.4	25	50	40	41	32	22	17	
		4.19	1221	17.6	16.4 - 20.1 - 28.4	24.0	12.7 - 15.6 - 22.0	30.3	7.4 - 9.0 - 12.8	32	55	47	47	41	34	29	
		5.08	1480	25.9	18.1 - 22.1 - 31.3	35.2	14.0 - 17.2 - 24.3	44.5	8.1 - 10.0 - 14.1	37	60	52	53	48	44	39	
915 x 356	0.325	1.52	459	2.3	5.7 - 9.3 - 17.4	3.2	4.4 - 7.2 - 13.5	4.0	2.6 - 4.2 - 7.8	-	32	19	20	-	-	-	
		2.41	727	5.8	9.8 - 14.7 - 21.9	7.9	7.6 - 11.4 - 17.0	10.0	4.4 - 6.6 - 9.9	15	43	32	33	20	-	-	
		3.30	995	10.9	13.4 - 18.1 - 25.7	14.9	10.4 - 14.1 - 19.9	18.8	6.0 - 8.2 - 11.5	25	50	40	41	32	23	17	
		4.19	1263	17.6	16.7 - 20.4 - 28.9	24.0	12.9 - 15.8 - 22.4	30.3	7.5 - 9.2 - 13.0	32	55	47	48	41	34	29	
		5.08	1531	25.9	18.4 - 22.5 - 31.8	35.2	14.2 - 17.4 - 24.7	44.5	8.3 - 10.1 - 14.3	38	60	52	53	48	44	39	
610 x 559	0.341	1.52	486	2.3	5.9 - 9.6 - 17.9	3.2	4.6 - 7.4 - 13.9	4.0	2.6 - 4.3 - 8.1	-	32	19	20	-	-	-	
		2.29	729	5.2	9.6 - 14.3 - 22.0	7.1	7.4 - 11.1 - 17.0	9.0	4.3 - 6.5 - 9.9	14	42	30	31	19	-	-	
		3.05	972	9.3	12.8 - 17.9 - 25.4	12.7	9.9 - 13.9 - 19.7	16.0	5.7 - 8.1 - 11.4	23	48	38	39	29	19	13	
		3.81	1214	14.6	15.9 - 20.0 - 28.4	19.8	12.4 - 15.5 - 22.0	25.0	7.2 - 9.0 - 12.8	29	53	44	45	38	30	25	
		4.57	1457	21.0	17.9 - 22.0 - 31.1	28.5	13.9 - 17.0 - 24.1	36.0	8.1 - 9.9 - 14.0	35	58	49	50	45	39	34	
762 x 458	0.348	1.52	496	2.3	5.9 - 9.7 - 18.1	3.2	4.6 - 7.5 - 14.0	4.0	2.7 - 4.3 - 8.2	-	32	19	21	-	-	-	
		2.29	744	5.2	9.7 - 14.5 - 22.2	7.1	7.5 - 11.2 - 17.2	9.0	4.3 - 6.5 - 10.0	14	42	30	32	19	-	-	
		3.05	992	9.3	12.9 - 18.1 - 25.6	12.7	10.0 - 14.0 - 19.9	16.0	5.8 - 8.2 - 11.5	23	48	38	39	30	19	13	
		3.81	1240	14.6	16.1 - 20.3 - 28.7	19.8	12.5 - 15.7 - 22.2	25.0	7.2 - 9.1 - 12.9	29	54	44	45	38	30	25	
		4.57	1488	21.0	18.1 - 22.2 - 31.4	28.5	14.0 - 17.2 - 24.3	36.0	8.2 - 10.0 - 14.1	35	58	49	50	45	39	34	
915 x 407	0.372	1.52	529	2.3	6.1 - 10.0 - 18.7	3.2	4.8 - 7.7 - 14.5	4.0	2.8 - 4.5 - 8.4	-	32	20	21	-	-	-	
		2.29	793	5.2	10.0 - 15.0 - 22.9	7.1	7.7 - 11.6 - 17.8	9.0	4.5 - 6.7 - 10.3	14	42	31	32	19	-	-	
		3.05	1057	9.3	13.3 - 18.7 - 26.5	12.7	10.3 - 14.5 - 20.5	16.0	6.0 - 8.4 - 11.9	23	49	39	40	30	19	14	
		3.81	1321	14.6	16.6 - 20.9 - 29.6	19.8	12.9 - 16.2 - 22.9	25.0	7.5 - 9.4 - 13.3	30	54	45	46	38	30	25	
		4.57	1586	21.0	18.7 - 22.9 - 32.4	28.5	14.5 - 17.8 - 25.1	36.0	8.4 - 10.3 - 14.6	35	58	50	50	45	39	34	
915 x 458	0.418	1.52	598	2.3	6.5 - 10.6 - 19.9	3.2	5.1 - 8.2 - 15.4	4.0	2.9 - 4.8 - 9.0	-	33	20	21	-	-	-	
		2.29	897	5.2	10.6 - 15.9 - 24.4	7.1	8.2 - 12.3 - 18.9	9.0	4.8 - 7.2 - 11.0	15	42	31	32	19	-	-	
		3.05	1196	9.3	14.1 - 19.9 - 28.1	12.7	11.0 - 15.4 - 21.8	16.0	6.4 - 9.0 - 12.7	23	49	39	40	30	20	14	
		3.81	1495	14.6	17.7 - 22.2 - 31.5	19.8	13.7 - 17.2 - 24.4	25.0	8.0 - 10.0 - 14.2	30	54	45	46	39	31	25	
		4.57	1794	21.0	19.9 - 24.4 - 34.5	28.5	15.4 - 18.9 - 26.7	36.0	9.0 - 11.0 - 15.5	36	59	50	51	46	40	35	

SUPPLY GRILLES

AF80 - AF880

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

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

Nom Duct mm	Duct Area m ²	Neck Vel m/s	Air Flow L/s	0°		22.5°		45°		NC	Octave Band, dB					
				Pt	Throw	Pt	Throw	Pt	Throw		2	3	4	5	6	7
				Pa	m	Pa	m	Pa	m							
762 x 610	0.465	1.52	669	2.3	6.9 - 11.2 - 21.0	3.2	5.4 - 8.7 - 16.3	4.0	3.1 - 5.0 - 9.5	-	33	21	22	-	-	-
		2.29	1003	5.2	11.2 - 16.8 - 25.8	7.1	8.7 - 13.0 - 20.0	9.0	5.0 - 7.6 - 11.6	15	43	32	33	20	-	-
		3.05	1337	9.3	15.0 - 21.0 - 29.8	12.7	11.6 - 16.3 - 23.1	16.0	6.7 - 9.5 - 13.4	24	50	40	41	31	20	15
		3.81	1672	14.6	18.7 - 23.5 - 33.3	19.8	14.5 - 18.2 - 25.8	25.0	8.4 - 10.6 - 15.0	31	55	46	47	39	31	26
		4.57	2006	21.0	21.0 - 25.8 - 36.4	28.5	16.3 - 20.0 - 28.2	36.0	9.5 - 11.6 - 16.4	36	59	51	52	46	40	35
1067 x 458	0.488	1.52	700	2.3	7.1 - 11.5 - 21.5	3.2	5.5 - 8.9 - 16.7	4.0	3.2 - 5.2 - 9.7	-	34	21	22	-	-	-
		2.29	1049	5.2	11.5 - 17.2 - 26.4	7.1	8.9 - 13.3 - 20.4	9.0	5.2 - 7.7 - 11.9	16	43	32	33	20	-	-
		3.05	1399	9.3	15.3 - 21.5 - 30.4	12.7	11.9 - 16.7 - 23.6	16.0	6.9 - 9.7 - 13.7	24	50	40	41	31	20	15
		3.81	1749	14.6	19.1 - 24.1 - 34.0	19.8	14.8 - 18.6 - 26.4	25.0	8.6 - 10.8 - 15.3	31	55	46	47	39	31	26
		4.57	2099	21.0	21.5 - 26.4 - 37.3	28.5	16.7 - 20.4 - 28.9	36.0	9.7 - 11.9 - 16.8	36	59	51	52	46	40	35
712 x 712	0.506	1.52	730	2.3	7.2 - 11.7 - 22.0	3.2	5.6 - 9.1 - 17.0	4.0	3.2 - 5.3 - 9.9	-	34	21	22	-	-	-
		2.29	1095	5.2	11.7 - 17.6 - 26.9	7.1	9.1 - 13.6 - 20.9	9.0	5.3 - 7.9 - 12.1	16	43	32	33	20	-	-
		3.05	1460	9.3	15.6 - 22.0 - 31.1	12.7	12.1 - 17.0 - 24.1	16.0	7.0 - 9.9 - 14.0	24	50	40	41	31	21	15
		3.81	1825	14.6	19.5 - 24.6 - 34.8	19.8	15.1 - 19.0 - 26.9	25.0	8.8 - 11.1 - 15.6	31	55	46	47	40	32	26
		4.57	2190	21.0	22.0 - 26.9 - 38.1	28.5	17.0 - 20.9 - 29.5	36.0	9.9 - 12.1 - 17.1	36	59	51	52	46	41	36
762 x 712	0.542	1.52	784	2.3	7.5 - 12.1 - 22.8	3.2	5.8 - 9.4 - 17.7	4.0	3.4 - 5.5 - 10.2	-	34	21	23	-	-	-
		2.29	1176	5.2	12.1 - 18.2 - 27.9	7.1	9.4 - 14.1 - 21.6	9.0	5.5 - 8.2 - 12.6	16	44	32	33	21	-	-
		3.05	1567	9.3	16.2 - 22.8 - 32.2	12.7	12.6 - 17.7 - 25.0	16.0	7.3 - 10.2 - 14.5	25	50	40	41	31	21	15
		3.81	1959	14.6	20.2 - 25.5 - 36.0	19.8	15.7 - 19.7 - 27.9	25.0	9.1 - 11.5 - 16.2	31	56	46	47	40	32	27
		4.57	2351	21.0	22.8 - 27.9 - 39.4	28.5	17.7 - 21.6 - 30.6	36.0	10.2 - 12.6 - 17.8	37	60	51	52	47	41	36
915 x 610	0.557	1.52	806	2.3	7.6 - 12.3 - 23.1	3.2	5.9 - 9.5 - 17.9	4.0	3.4 - 5.5 - 10.4	-	34	21	23	-	-	-
		2.23	1176	5.0	12.0 - 18.0 - 27.9	6.8	9.3 - 13.9 - 21.6	8.5	5.4 - 8.1 - 12.6	15	43	32	33	20	-	-
		2.92	1544	8.6	15.7 - 22.6 - 32.0	11.6	12.2 - 17.5 - 24.8	14.7	7.1 - 10.2 - 14.4	23	49	39	40	30	19	13
		3.62	1915	13.2	19.5 - 25.2 - 35.6	17.9	15.1 - 19.5 - 27.6	22.6	8.8 - 11.3 - 16.0	30	54	45	46	38	30	24
		4.32	2283	18.7	22.4 - 27.5 - 38.9	25.4	17.4 - 21.3 - 30.1	32.2	10.1 - 12.4 - 17.5	35	59	50	51	45	38	33
762 x 762	0.581	1.52	841	2.3	7.7 - 12.6 - 23.6	3.2	6.0 - 9.8 - 18.3	4.0	3.5 - 5.7 - 10.6	-	34	22	23	-	-	-
		2.23	1228	5.0	12.2 - 18.4 - 28.5	6.8	9.5 - 14.2 - 22.1	8.5	5.5 - 8.3 - 12.8	16	43	32	33	20	-	-
		2.92	1612	8.6	16.1 - 23.1 - 32.7	11.6	12.5 - 17.9 - 25.3	14.7	7.2 - 10.4 - 14.7	24	50	39	40	30	19	13
		3.62	1999	13.2	19.9 - 25.7 - 36.4	17.9	15.5 - 19.9 - 28.2	22.6	9.0 - 11.6 - 16.4	30	55	45	46	38	30	24
		4.32	2383	18.7	22.9 - 28.1 - 39.7	25.4	17.8 - 21.8 - 30.8	32.2	10.3 - 12.6 - 17.9	35	59	50	51	45	38	33
915 x 712	0.650	1.52	944	2.3	8.2 - 13.3 - 25.0	3.2	6.4 - 10.3 - 19.4	4.0	3.7 - 6.0 - 11.3	-	35	22	23	-	-	-
		2.23	1379	5.0	13.0 - 19.5 - 30.2	6.8	10.1 - 15.1 - 23.4	8.5	5.8 - 8.8 - 13.6	16	44	32	34	20	-	-
		2.92	1810	8.6	17.0 - 24.5 - 34.6	11.6	13.2 - 19.0 - 26.8	14.7	7.7 - 11.0 - 15.6	24	50	40	41	31	20	14
		3.62	2245	13.2	21.1 - 27.3 - 38.5	17.9	16.4 - 21.1 - 29.9	22.6	9.5 - 12.3 - 17.3	31	55	46	47	39	30	25
		4.32	2676	18.7	24.3 - 29.8 - 42.1	25.4	18.8 - 23.1 - 32.6	32.2	10.9 - 13.4 - 18.9	36	59	51	51	45	39	34
1169 x 559	0.653	1.52	945	2.3	8.2 - 13.3 - 25.0	3.2	6.4 - 10.3 - 19.4	4.0	3.7 - 6.0 - 11.3	-	35	22	23	-	-	-
		2.23	1380	5.0	13.0 - 19.5 - 30.2	6.8	10.1 - 15.1 - 23.4	8.5	5.8 - 8.8 - 13.6	16	44	32	34	20	-	-
		2.92	1812	8.6	17.0 - 24.5 - 34.6	11.6	13.2 - 19.0 - 26.8	14.7	7.7 - 11.0 - 15.6	24	50	40	41	31	20	14
		3.62	2247	13.2	21.1 - 27.3 - 38.6	17.9	16.4 - 21.1 - 29.9	22.6	9.5 - 12.3 - 17.4	31	55	46	47	39	30	25
		4.32	2679	18.7	24.3 - 29.8 - 42.1	25.4	18.8 - 23.1 - 32.6	32.2	10.9 - 13.4 - 18.9	36	59	51	51	45	39	34
813 x 813	0.661	1.52	960	2.3	8.3 - 13.4 - 25.2	3.2	6.4 - 10.4 - 19.5	4.0	3.7 - 6.1 - 11.3	-	35	22	23	-	-	-
		2.23	1402	5.0	13.1 - 19.6 - 30.5	6.8	10.1 - 15.2 - 23.6	8.5	5.9 - 8.8 - 13.7	16	44	33	34	21	-	-
		2.92	1840	8.6	17.2 - 24.7 - 34.9	11.6	13.3 - 19.1 - 27.0	14.7	7.7 - 11.1 - 15.7	24	50	40	41	31	20	14
		3.62	2282	13.2	21.3 - 27.5 - 38.9	17.9	16.5 - 21.3 - 30.1	22.6	9.6 - 12.4 - 17.5	31	55	46	47	39	30	25
		4.32	2721	18.7	24.5 - 30.0 - 42.4	25.4	19.0 - 23.3 - 32.9	32.2	11.0 - 13.5 - 19.1	36	59	51	52	46	39	34
915 x 762	0.697	1.52	1014	2.3	8.5 - 13.8 - 25.9	3.2	6.6 - 10.7 - 20.1	4.0	3.8 - 6.2 - 11.7	-	35	22	24	-	-	-
		2.23	1480	5.0	13.4 - 20.2 - 31.3	6.8	10.4 - 15.6 - 24.3	8.5	6.1 - 9.1 - 14.1	16	44	33	34	21	-	-
		2.92	1943	8.6	17.7 - 25.4 - 35.9	11.6	13.7 - 19.7 - 27.8	14.7	7.9 - 11.4 - 16.1	24	50	40	41	31	20	14
		3.62	2409	13.2	21.9 - 28.2 - 39.9	17.9	17.0 - 21.9 - 30.9	22.6	9.9 - 12.7 - 18.0	31	55	46	47	39	31	25
		4.32	2872	18.7	25.2 - 30.8 - 43.6	25.4	19.5 - 23.9 - 33.8	32.2	11.3 - 13.9 - 19.6	36	60	51	52	46	39	34
915 x 813	0.743	1.52	1083	2.3	8.8 - 14.3 - 26.8	3.2	6.8 - 11.1 - 20.7	4.0	4.0 - 6.4 - 12.0	-	36	23	24	-	-	-
		2.23	1581	5.0	13.9 - 20.8 - 32.4	6.8	10.8 - 16.2 - 25.1	8.5	6.3 - 9.4 - 14.6	17	44	33	34	21	-	-
		2.92	2076	8.6	18.2 - 26.2 - 37.1	11.6	14.1 - 20.3 - 28.7	14.7	8.2 - 11.8 - 16.7	25	51	41	42	31	20	15
		3.62	2574	13.2	22.6 - 29.2 - 41.3	17.9	17.5 - 22.6 - 32.0	22.6	10.2 - 13.1 - 18.6	31	56	46	47	39	31	25
		4.32	3069	18.7	26.0 - 31.9 - 45.1	25.4	20.2 - 24.7 - 34.9	32.2	11.7 - 14.3 - 20.3	36	60	51	52	46	40	34

NOTE: See notes on page I1-62.

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

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

Nom Duct mm	Duct Area m ²	Neck Vel m/s	Air Flow L/s	0°		22.5°		45°		NC	Octave Band, dB						
				Pt	Throw	Pt	Throw	Pt	Throw		2	3	4	5	6	7	
				Pa	m	Pa	m	Pa	m								
864 x 864	0.746	1.52	1087	2.3	8.8 - 14.3 - 26.8	3.2	6.8 - 11.1 - 20.8	4.0	4.0 - 6.4 - 12.1	-	36	23	24	-	-	-	
		2.23	1587	5.0	13.9 - 20.9 - 32.4	6.8	10.8 - 16.2 - 25.1	8.5	6.3 - 9.4 - 14.6	17	44	33	34	21	-	-	
		2.92	2083	8.6	18.3 - 26.3 - 37.1	11.6	14.2 - 20.3 - 28.8	14.7	8.2 - 11.8 - 16.7	25	51	41	42	31	20	15	
		3.62	2583	13.2	22.7 - 29.2 - 41.4	17.9	17.6 - 22.7 - 32.0	22.6	10.2 - 13.2 - 18.6	31	56	46	47	39	31	25	
		4.32	3080	18.7	26.1 - 31.9 - 45.1	25.4	20.2 - 24.7 - 35.0	32.2	11.7 - 14.4 - 20.3	36	60	51	52	46	40	34	
915 x 864	0.790	1.52	1152	2.3	9.1 - 14.7 - 27.6	3.2	7.0 - 11.4 - 21.4	4.0	4.1 - 6.6 - 12.4	-	36	23	24	-	-	-	
		2.23	1683	5.0	14.3 - 21.5 - 33.4	6.8	11.1 - 16.7 - 25.9	8.5	6.5 - 9.7 - 15.0	17	45	33	34	21	-	-	
		2.92	2209	8.6	18.8 - 27.0 - 38.2	11.6	14.6 - 21.0 - 29.6	14.7	8.5 - 12.2 - 17.2	25	51	41	42	32	21	15	
		3.62	2739	13.2	23.3 - 30.1 - 42.6	17.9	18.1 - 23.3 - 33.0	22.6	10.5 - 13.5 - 19.2	31	56	47	48	40	31	26	
		4.32	3265	18.7	26.8 - 32.9 - 46.5	25.4	20.8 - 25.5 - 36.0	32.2	12.1 - 14.8 - 20.9	37	60	52	52	46	40	35	
1067 x 762	0.813	1.52	1186	2.3	9.2 - 14.9 - 28.0	3.2	7.1 - 11.6 - 21.7	4.0	4.1 - 6.7 - 12.6	-	36	23	24	-	-	-	
		2.23	1732	5.0	14.5 - 21.8 - 33.9	6.8	11.3 - 16.9 - 26.2	8.5	6.5 - 9.8 - 15.2	17	45	33	35	21	-	-	
		2.92	2274	8.6	19.1 - 27.4 - 38.8	11.6	14.8 - 21.3 - 30.1	14.7	8.6 - 12.3 - 17.5	25	51	41	42	32	21	15	
		3.62	2819	13.2	23.7 - 30.5 - 43.2	17.9	18.4 - 23.7 - 33.5	22.6	10.7 - 13.7 - 19.4	31	56	47	48	40	31	26	
		4.32	3361	18.7	27.2 - 33.4 - 47.2	25.4	21.1 - 25.8 - 36.6	32.2	12.3 - 15.0 - 21.2	37	60	52	52	46	40	35	
915 x 915	0.836	1.52	1222	2.3	9.3 - 15.2 - 28.4	3.2	7.2 - 11.8 - 22.0	4.0	4.2 - 6.8 - 12.8	-	36	23	24	-	-	-	
		2.23	1784	5.0	14.8 - 22.1 - 34.4	6.8	11.4 - 17.2 - 26.6	8.5	6.6 - 10.0 - 15.5	17	45	34	35	22	-	-	
		2.92	2342	8.6	19.4 - 27.8 - 39.4	11.6	15.0 - 21.6 - 30.5	14.7	8.7 - 12.5 - 17.7	25	51	41	42	32	21	15	
		3.62	2904	13.2	24.0 - 31.0 - 43.8	17.9	18.6 - 24.0 - 34.0	22.6	10.8 - 13.9 - 19.7	32	56	47	48	40	31	26	
		4.32	3462	18.7	27.6 - 33.8 - 47.9	25.4	21.4 - 26.2 - 37.1	32.2	12.4 - 15.2 - 21.5	37	60	52	53	47	40	35	
1220 x 762	0.929	1.52	1359	2.3	9.8 - 16.0 - 30.0	3.2	7.6 - 12.4 - 23.2	4.0	4.4 - 7.2 - 13.5	-	37	24	25	-	-	-	
		2.23	1984	5.0	15.6 - 23.4 - 36.2	6.8	12.1 - 18.1 - 28.1	8.5	7.0 - 10.5 - 16.3	17	45	34	35	22	-	-	
		2.92	2605	8.6	20.4 - 29.4 - 41.5	11.6	15.8 - 22.8 - 32.2	14.7	9.2 - 13.2 - 18.7	26	52	42	42	32	21	16	
		3.62	3230	13.2	25.3 - 32.7 - 46.2	17.9	19.6 - 25.3 - 35.8	22.6	11.4 - 14.7 - 20.8	32	57	47	48	40	32	26	
		4.32	3850	18.7	29.1 - 35.7 - 50.5	25.4	22.6 - 27.7 - 39.1	32.2	13.1 - 16.1 - 22.7	37	61	52	53	47	41	35	
966 x 966	0.932	1.52	1364	2.3	9.9 - 16.0 - 30.0	3.2	7.6 - 12.4 - 23.3	4.0	4.4 - 7.2 - 13.5	-	37	24	25	-	-	-	
		2.23	1992	5.0	15.6 - 23.4 - 36.3	6.8	12.1 - 18.1 - 28.1	8.5	7.0 - 10.5 - 16.3	18	45	34	35	22	-	-	
		2.92	2615	8.6	20.5 - 29.4 - 41.6	11.6	15.9 - 22.8 - 32.2	14.7	9.2 - 13.2 - 18.7	26	52	42	43	32	21	16	
		3.62	3242	13.2	25.4 - 32.8 - 46.3	17.9	19.7 - 25.4 - 35.9	22.6	11.4 - 14.7 - 20.8	32	57	47	48	40	32	26	
		4.32	3865	18.7	29.2 - 35.8 - 50.6	25.4	22.6 - 27.7 - 39.2	32.2	13.1 - 16.1 - 22.8	37	61	52	53	47	41	35	
1067 x 915	0.975	1.52	1430	2.3	10.1 - 16.4 - 30.8	3.2	7.8 - 12.7 - 23.8	4.0	4.5 - 7.4 - 13.8	-	37	24	25	-	-	-	
		2.23	2087	5.0	16.0 - 24.0 - 37.2	6.8	12.4 - 18.6 - 28.8	8.5	7.2 - 10.8 - 16.7	18	46	34	35	22	-	-	
		2.92	2740	8.6	21.0 - 30.1 - 42.6	11.6	16.2 - 23.3 - 33.0	14.7	9.4 - 13.6 - 19.2	26	52	42	43	32	21	16	
		3.62	3398	13.2	26.0 - 33.5 - 47.4	17.9	20.1 - 26.0 - 36.8	22.6	11.7 - 15.1 - 21.3	32	57	48	49	41	32	27	
		4.32	4051	18.7	29.9 - 36.6 - 51.8	25.4	23.2 - 28.4 - 40.1	32.2	13.5 - 16.5 - 23.3	38	61	52	53	47	41	36	
1169 x 864	1.009	1.52	1479	2.3	10.3 - 16.7 - 31.3	3.2	8.0 - 12.9 - 24.3	4.0	4.6 - 7.5 - 14.1	-	37	24	25	-	-	-	
		2.23	2160	5.0	16.2 - 24.4 - 37.8	6.8	12.6 - 18.9 - 29.3	8.5	7.3 - 11.0 - 17.0	18	46	34	36	22	-	-	
		2.92	2835	8.6	21.3 - 30.6 - 43.3	11.6	16.5 - 23.7 - 33.6	14.7	9.6 - 13.8 - 19.5	26	52	42	43	33	22	16	
		3.62	3516	13.2	26.4 - 34.1 - 48.2	17.9	20.5 - 26.4 - 37.4	22.6	11.9 - 15.3 - 21.7	32	57	48	49	41	32	27	
		4.32	4191	18.7	30.4 - 37.2 - 52.7	25.4	23.6 - 28.9 - 40.8	32.2	13.7 - 16.8 - 23.7	38	61	53	53	47	41	36	
1067 x 966	1.030	1.52	1511	2.3	10.4 - 16.9 - 31.6	3.2	8.0 - 13.1 - 24.5	4.0	4.7 - 7.6 - 14.2	-	37	24	25	-	-	-	
		2.23	2206	5.0	16.4 - 24.6 - 38.2	6.8	12.7 - 19.1 - 29.6	8.5	7.4 - 11.1 - 17.2	18	46	34	36	22	-	-	
		2.92	2896	8.6	21.6 - 31.0 - 43.8	11.6	16.7 - 24.0 - 33.9	14.7	9.7 - 13.9 - 19.7	26	52	42	43	33	22	16	
		3.62	3591	13.2	26.7 - 34.5 - 48.7	17.9	20.7 - 26.7 - 37.8	22.6	12.0 - 15.5 - 21.9	32	57	48	49	41	32	27	
		4.32	4281	18.7	30.7 - 37.6 - 53.2	25.4	23.8 - 29.2 - 41.3	32.2	13.8 - 16.9 - 24.0	38	61	53	54	47	41	36	
1016 x 1016	1.032	1.52	1515	2.3	10.4 - 16.9 - 31.7	3.2	8.1 - 13.1 - 24.5	4.0	4.7 - 7.6 - 14.2	-	37	24	25	-	-	-	
		2.23	2211	5.0	16.4 - 24.7 - 38.3	6.8	12.7 - 19.1 - 29.7	8.5	7.4 - 11.1 - 17.2	18	46	34	36	22	-	-	
		2.92	2903	8.6	21.6 - 31.0 - 43.8	11.6	16.7 - 24.0 - 34.0	14.7	9.7 - 13.9 - 19.7	26	52	42	43	33	22	16	
		3.62	3600	13.2	26.8 - 34.5 - 48.8	17.9	20.7 - 26.7 - 37.8	22.6	12.0 - 15.5 - 22.0	33	57	48	49	41	32	27	
		4.32	4292	18.7	30.8 - 37.7 - 53.3	25.4	23.8 - 29.2 - 41.3	32.2	13.8 - 17.0 - 24.0	38	61	53	54	47	41	36	
1220 x 915	1.115	1.52	1638	2.3	10.8 - 17.6 - 32.9	3.2	8.4 - 13.6 - 25.5	4.0	4.9 - 7.9 - 14.8	-	37	24	26	-	-	-	
		2.23	2391	5.0	17.1 - 25.6 - 39.8	6.8	13.2 - 19.9 - 30.8	8.5	7.7 - 11.5 - 17.9	18	46	35	36	23	-	-	
		2.92	3139	8.6	22.4 - 32.2 - 45.6	11.6	17.4 - 25.0 - 35.3	14.7	10.1 - 14.5 - 20.5	26	53	42	43	33	22	16	
		3.62	3892	13.2	27.8 - 35.9 - 50.8	17.9	21.6 - 27.8 - 39.3	22.6	12.5 - 16.2 - 22.8	33	58	48	49	41	33	27	
		4.32	4640	18.7	32.0 - 39.2 - 55.4	25.4	24.8 - 30.4 - 42.9	32.2	14.4 - 17.6 - 24.9	38	62	53	54	48	41	36	

NOTE: See notes on page 11-62.

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

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

Nom Duct mm	Duct Area m ²	Neck Vel m/s	Air Flow L/s	0°			22.5°			45°			NC	Octave Band, dB					
				Pt	Throw		Pt	Throw		Pt	Throw			2	3	4	5	6	7
				Pa	m		Pa	m		Pa	m								
1067 x 1067	1.138	1.52	1673	2.3	10.9 - 17.7 - 33.3	3.2	8.5 - 13.8 - 25.8	4.0	4.9 - 8.0 - 15.0	-	37	25	26	-	-	-			
		2.23	2443	5.0	17.3 - 25.9 - 40.2	6.8	13.4 - 20.1 - 31.2	8.5	7.8 - 11.7 - 18.1	18	46	35	36	23	-	-			
		2.92	3207	8.6	22.7 - 32.6 - 46.1	11.6	17.6 - 25.2 - 35.7	14.7	10.2 - 14.7 - 20.7	26	53	42	43	33	22	16			
		3.62	3976	13.2	28.1 - 36.3 - 51.3	17.9	21.8 - 28.1 - 39.8	22.6	12.7 - 16.3 - 23.1	33	58	48	49	41	33	27			
		4.32	4740	18.7	32.3 - 39.6 - 56.0	25.4	25.1 - 30.7 - 43.4	32.2	14.6 - 17.8 - 25.2	38	62	53	54	48	41	36			
1118 x 1118	1.249	1.52	1839	2.3	11.5 - 18.6 - 34.9	3.2	8.9 - 14.4 - 27.0	4.0	5.2 - 8.4 - 15.7	-	38	25	26	-	-	-			
		2.10	2532	4.4	17.1 - 25.6 - 40.9	6.0	13.2 - 19.9 - 31.7	7.6	7.7 - 11.5 - 18.4	17	45	34	35	21	-	-			
		2.67	3219	7.1	21.7 - 32.6 - 46.2	9.7	16.8 - 25.2 - 35.8	12.3	9.8 - 14.7 - 20.8	24	51	40	41	30	18	12			
		3.24	3911	10.5	26.4 - 36.0 - 50.9	14.3	20.4 - 27.9 - 39.4	18.1	11.9 - 16.2 - 22.9	30	55	46	47	38	28	22			
		4.06	4904	16.6	32.9 - 40.3 - 57.0	22.5	25.5 - 31.2 - 44.2	28.5	14.8 - 18.1 - 25.6	37	61	52	53	46	39	34			
1220 x 1067	1.301	1.52	1916	2.3	11.7 - 19.0 - 35.6	3.2	9.1 - 14.7 - 27.6	4.0	5.3 - 8.5 - 16.0	-	38	25	26	-	-	-			
		2.10	2638	4.4	17.4 - 26.2 - 41.8	6.0	13.5 - 20.3 - 32.4	7.6	7.8 - 11.8 - 18.8	17	45	34	35	21	-	-			
		2.67	3354	7.1	22.2 - 33.2 - 47.1	9.7	17.2 - 25.8 - 36.5	12.3	10.0 - 15.0 - 21.2	24	51	40	42	30	18	12			
		3.24	4075	10.5	26.9 - 36.7 - 51.9	14.3	20.9 - 28.5 - 40.3	18.1	12.1 - 16.5 - 23.4	30	56	46	47	38	28	22			
		4.06	5110	16.6	33.6 - 41.1 - 58.2	22.5	26.0 - 31.9 - 45.1	28.5	15.1 - 18.5 - 26.2	37	61	52	53	46	39	34			
1169 x 1169	1.365	1.52	2013	2.3	12.0 - 19.5 - 36.5	3.2	9.3 - 15.1 - 28.3	4.0	5.4 - 8.8 - 16.4	-	38	25	27	-	-	-			
		2.10	2772	4.4	17.9 - 26.8 - 42.8	6.0	13.8 - 20.8 - 33.2	7.6	8.0 - 12.1 - 19.3	17	46	34	35	22	-	-			
		2.67	3523	7.1	22.7 - 34.1 - 48.3	9.7	17.6 - 26.4 - 37.4	12.3	10.2 - 15.3 - 21.7	25	51	41	42	31	18	13			
		3.24	4281	10.5	27.6 - 37.6 - 53.2	14.3	21.4 - 29.2 - 41.3	18.1	12.4 - 16.9 - 24.0	30	56	46	47	38	28	23			
		4.06	5369	16.6	34.4 - 42.2 - 59.6	22.5	26.7 - 32.7 - 46.2	28.5	15.5 - 19.0 - 26.8	37	61	52	53	46	39	34			
1220 x 1169	1.425	1.52	2102	2.3	12.2 - 19.9 - 37.3	3.2	9.5 - 15.4 - 28.9	4.0	5.5 - 9.0 - 16.8	-	38	26	27	-	-	-			
		2.10	2894	4.4	18.3 - 27.4 - 43.8	6.0	14.2 - 21.2 - 33.9	7.6	8.2 - 12.3 - 19.7	18	46	34	35	22	-	-			
		2.67	3679	7.1	23.2 - 34.8 - 49.3	9.7	18.0 - 27.0 - 38.2	12.3	10.4 - 15.7 - 22.2	25	51	41	42	31	19	13			
		3.24	4471	10.5	28.2 - 38.5 - 54.4	14.3	21.9 - 29.8 - 42.2	18.1	12.7 - 17.3 - 24.5	31	56	46	47	38	28	23			
		4.06	5606	16.6	35.2 - 43.1 - 60.9	22.5	27.3 - 33.4 - 47.2	28.5	15.8 - 19.4 - 27.4	37	61	52	53	47	39	34			
1220 x 1220	1.486	1.52	2195	2.3	12.5 - 20.3 - 38.1	3.2	9.7 - 15.8 - 29.5	4.0	5.6 - 9.1 - 17.2	-	39	26	27	-	-	-			
		2.10	3022	4.4	18.7 - 28.0 - 44.7	6.0	14.5 - 21.7 - 34.7	7.6	8.4 - 12.6 - 20.1	18	46	34	36	22	-	-			
		2.67	3841	7.1	23.7 - 35.6 - 50.4	9.7	18.4 - 27.6 - 39.1	12.3	10.7 - 16.0 - 22.7	25	52	41	42	31	19	13			
		3.24	4668	10.5	28.8 - 39.3 - 55.6	14.3	22.3 - 30.5 - 43.1	18.1	13.0 - 17.7 - 25.0	31	56	46	47	38	28	23			
		4.06	5854	16.6	35.9 - 44.0 - 62.2	22.5	27.9 - 34.1 - 48.2	28.5	16.2 - 19.8 - 28.0	37	61	53	53	47	40	34			

NOTES: Throw values are given for terminal velocities of 0.75, 0.50, and 0.25 m/s. 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 10⁻¹² 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 software for performance data not shown, including octave band data.

SUPPLY GRILLES

AF80 - AF880

AF80, AF580, AF880, AF5880 Suggested Specification & Configuration
1. SERIES: (XXXXXX)

- AF80 - Single Deflection, 3/4" Spacing, Airfoil Grille, Aluminum Blades, Steel Frame
- AF580 - Single Deflection, 3/4" Spacing, Airfoil Grille, Aluminum Blades, Aluminum Frame
- AF880 - Double Deflection, 3/4" Spacing, Airfoil Grille, Aluminum Blades, Steel Frame
- AF5880 - Double Deflection, 3/4" Spacing, Airfoil Grille, Aluminum Blades, Aluminum Frame

2. PATTERN: (X)

- H - Horizontal Front Blades
- V - Vertical Front Blades

3. WIDTH: (XX) *

- 6" - 96" in 2" Increments

4. HEIGHT: (XX) *

- 6" - 96" in 2" Increments

5. FRAME: (XXX)

- F22 - Surface Mount

6. FASTENING METHOD: (XX)

- 00 - No Screw Holes
- 01 - Standard Screw Holes

7. DAMPER: (XX)

- 00 - No Damper
- 01 - Steel Opposed Blade Damper (Model OBD)
- 15 - Aluminum Opposed Blade Damper (Model 5OBD)

8. ACCESSORIES: (XX)

- 00 - No Accessories
- 01 - Plaster Frame

9. FINISH: (XX)

- 01 - Mill
- 10 - Alumican
- 35 - Black
- 44 - British White

* Maximum single piece unit is 48"x48".

AF80, AF580

The single deflection supply grille shall be Krueger Airfoil Series AF80 (steel frame) or AF580 (aluminum frame). This grille must have individually adjustable blades on 3/4" centers constructed of extruded aluminum formed to an airfoil shape (hollow blades are not acceptable). The blades shall extend through the side of the frame and shall be held in place with tension wire. The frame of the grille must be constructed of 20 gage steel (AF80) or extruded aluminum with minimum 0.040 - 0.050" thickness (AF580). This frame must also produce a border of 1 1/4" around all sides of the grille with mitered corners.

AF880, AF5880

The double deflection supply grille shall be Krueger Airfoil Series AF880 (steel frame) or AF5880 (aluminum frame). This grille must have individually adjustable blades on 3/4" centers constructed of extruded aluminum formed to an airfoil shape (hollow blades are not acceptable). The blades shall extend through the side of the frame and shall be held in place with tension wire. The frame of the grille must be constructed of 20 gage steel (AF880) or extruded aluminum with minimum 0.040 - 0.050" thickness (AF5880). This frame must also produce a border of 1 1/4" around all sides of the grille with mitered corners.

Optional damper shall be available made of heavy gage steel (OBD) or aluminum (5OBD) and operable from the face of the supply grille.

PERFORMANCE

The manufacturer shall provide published (printed or electronic) performance data for the diffuser. Performance data shall include 2 - 7 octave band sound power levels. The diffuser shall be tested in accordance to the data standards at the time of product introduction or ANSI/ASHRAE Standard 70.

FINISH

The paint finish shall be #44 British White and be an anodic acrylic paint, baked at 315°F for 30 minutes. The paint thickness shall be 0.8 - 1.0 mils, gloss at 60° per ASTM D523-89 of 50 - 85%, pencil hardness per ASTM D3363-92A of HB - H, crosshatch adhesion per ASTM D3359-83 of 4B - 5B, impact per ASTM D2794-93 of direct impact >100 in/lb and reverse impact >80 in/lb, salt spray per ASTM B117-9048 of 96 hours, humidity per ASTM D2247-92 of >500 hours and water soak per ASTM D870-92 of 250 hours.