

80, 880, 4880, 800 Series Performance Data: Horizontal Throw

METRIC DATA: 80, 580, 880, 5880, 585, 5885, 480, 4880, 800, 5800 (WITH OBD/MULTILOUVER)

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
				Pa	m	Pa	m	Pa	m							
152 x 152	0.02	2.03	36	6.7	2.0 - 3.0 - 4.9	9.2	1.6 - 2.3 - 3.8	11.8	0.9 - 1.4 - 2.2	-	31	20	21	-	-	-
		3.30	59	17.8	3.3 - 4.4 - 6.2	24.4	2.5 - 3.4 - 4.8	31.1	1.5 - 2.0 - 2.8	18	43	33	34	25	15	-
		4.57	81	34.1	4.2 - 5.2 - 7.3	46.8	3.3 - 4.0 - 5.7	59.6	1.9 - 2.3 - 3.3	28	50	42	43	37	31	26
		5.84	104	55.6	4.8 - 5.9 - 8.3	76.4	3.7 - 4.5 - 6.4	97.3	2.2 - 2.6 - 3.7	35	56	49	49	46	43	39
		7.11	126	82.4	5.3 - 6.5 - 9.1	113.3	4.1 - 5.0 - 7.1	144.2	2.4 - 2.9 - 4.1	41	60	54	54	54	53	49
203 x 152	0.03	2.03	50	6.7	2.4 - 3.6 - 5.7	9.2	1.8 - 2.8 - 4.5	11.8	1.1 - 1.6 - 2.6	-	33	21	22	-	-	-
		3.30	81	17.8	3.9 - 5.2 - 7.3	24.4	3.0 - 4.0 - 5.7	31.1	1.7 - 2.3 - 3.3	19	44	34	35	26	17	11
		4.57	112	34.1	5.0 - 6.1 - 8.6	46.8	3.9 - 4.7 - 6.7	59.6	2.2 - 2.7 - 3.9	29	52	43	44	39	33	28
		5.84	143	55.6	5.6 - 6.9 - 9.7	76.4	4.4 - 5.3 - 7.6	97.3	2.5 - 3.1 - 4.4	36	57	50	51	48	45	40
		7.11	175	82.4	6.2 - 7.6 - 10.8	113.3	4.8 - 5.9 - 8.3	144.2	2.8 - 3.4 - 4.8	42	62	55	56	55	55	50
254 x 152	0.04	2.03	64	6.7	2.7 - 4.0 - 6.5	9.2	2.1 - 3.1 - 5.0	11.8	1.2 - 1.8 - 2.9	-	34	22	23	-	-	-
		3.30	103	17.8	4.4 - 5.9 - 8.3	24.4	3.4 - 4.5 - 6.4	31.1	2.0 - 2.6 - 3.7	20	45	35	36	27	18	12
		4.57	143	34.1	5.6 - 6.9 - 9.7	46.8	4.4 - 5.3 - 7.5	59.6	2.5 - 3.1 - 4.4	30	53	44	45	40	34	29
		5.84	183	55.6	6.4 - 7.8 - 11.0	76.4	4.9 - 6.0 - 8.5	97.3	2.9 - 3.5 - 5.0	37	58	51	52	49	46	41
		7.11	223	82.4	7.0 - 8.6 - 12.1	113.3	5.4 - 6.7 - 9.4	144.2	3.2 - 3.9 - 5.5	43	63	56	57	56	56	51
203 x 203	0.04	2.03	69	6.7	2.8 - 4.2 - 6.8	9.2	2.2 - 3.2 - 5.2	11.8	1.3 - 1.9 - 3.0	-	34	22	24	-	-	-
		3.30	112	17.8	4.5 - 6.1 - 8.6	24.4	3.5 - 4.7 - 6.7	31.1	2.0 - 2.7 - 3.9	21	45	36	37	28	18	13
		4.57	155	34.1	5.8 - 7.2 - 10.1	46.8	4.5 - 5.6 - 7.9	59.6	2.6 - 3.2 - 4.6	30	53	45	45	40	34	29
		5.84	198	55.6	6.6 - 8.1 - 11.5	76.4	5.1 - 6.3 - 8.9	97.3	3.0 - 3.6 - 5.2	38	59	51	52	49	46	42
		7.11	241	82.4	7.3 - 8.9 - 12.6	113.3	5.7 - 6.9 - 9.8	144.2	3.3 - 4.0 - 5.7	44	63	57	57	57	56	51
305 x 152	0.05	2.03	77	6.7	3.0 - 4.4 - 7.2	9.2	2.3 - 3.4 - 5.5	11.8	1.3 - 2.0 - 3.2	-	35	23	24	-	-	-
		3.30	126	17.8	4.8 - 6.5 - 9.1	24.4	3.7 - 5.0 - 7.1	31.1	2.2 - 2.9 - 4.1	21	46	36	37	28	19	13
		4.57	174	34.1	6.2 - 7.6 - 10.7	46.8	4.8 - 5.9 - 8.3	59.6	2.8 - 3.4 - 4.8	31	53	45	46	40	35	30
		5.84	223	55.6	7.0 - 8.6 - 12.1	76.4	5.4 - 6.7 - 9.4	97.3	3.2 - 3.9 - 5.5	38	59	52	53	50	47	42
		7.11	271	82.4	7.7 - 9.5 - 13.4	113.3	6.0 - 7.3 - 10.4	144.2	3.5 - 4.3 - 6.0	44	64	57	58	57	56	52
356 x 152	0.05	2.03	91	6.7	3.2 - 4.8 - 7.8	9.2	2.5 - 3.7 - 6.0	11.8	1.4 - 2.2 - 3.5	-	35	24	25	11	-	-
		3.30	148	17.8	5.2 - 7.0 - 9.9	24.4	4.0 - 5.4 - 7.7	31.1	2.3 - 3.2 - 4.5	22	47	37	38	29	19	14
		4.57	205	34.1	6.7 - 8.2 - 11.7	46.8	5.2 - 6.4 - 9.0	59.6	3.0 - 3.7 - 5.2	31	54	46	47	41	35	30
		5.84	262	55.6	7.6 - 9.3 - 13.2	76.4	5.9 - 7.2 - 10.2	97.3	3.4 - 4.2 - 5.9	39	60	53	53	50	47	43
		7.11	319	82.4	8.4 - 10.3 - 14.5	113.3	6.5 - 8.0 - 11.3	144.2	3.8 - 4.6 - 6.5	45	64	58	59	58	57	53
305 x 203	0.06	2.03	107	6.7	3.5 - 5.2 - 8.4	9.2	2.7 - 4.0 - 6.5	11.8	1.6 - 2.3 - 3.8	-	36	24	25	11	-	-
		3.30	174	17.8	5.6 - 7.6 - 10.7	24.4	4.4 - 5.9 - 8.3	31.1	2.5 - 3.4 - 4.8	22	47	38	39	30	20	14
		4.57	241	34.1	7.3 - 8.9 - 12.6	46.8	5.6 - 6.9 - 9.8	59.6	3.3 - 4.0 - 5.7	32	55	47	47	42	36	31
		5.84	307	55.6	8.2 - 10.1 - 14.3	76.4	6.4 - 7.8 - 11.1	97.3	3.7 - 4.5 - 6.4	39	61	53	54	51	48	43
		7.11	374	82.4	9.1 - 11.1 - 15.7	113.3	7.0 - 8.6 - 12.2	144.2	4.1 - 5.0 - 7.1	45	65	59	59	59	58	53
254 x 254	0.06	2.03	112	6.7	3.6 - 5.3 - 8.6	9.2	2.8 - 4.1 - 6.7	11.8	1.6 - 2.4 - 3.9	-	36	24	26	12	-	-
		3.30	182	17.8	5.8 - 7.8 - 11.0	24.4	4.5 - 6.0 - 8.5	31.1	2.6 - 3.5 - 4.9	23	47	38	39	30	20	15
		4.57	252	34.1	7.5 - 9.1 - 12.9	46.8	5.8 - 7.1 - 10.0	59.6	3.4 - 4.1 - 5.8	32	55	47	48	42	36	31
		5.84	322	55.6	8.4 - 10.3 - 14.6	76.4	6.5 - 8.0 - 11.3	97.3	3.8 - 4.6 - 6.6	40	61	53	54	51	48	44
		7.11	393	82.4	9.3 - 11.4 - 16.1	113.3	7.2 - 8.8 - 12.5	144.2	4.2 - 5.1 - 7.3	46	65	59	59	59	58	54
457 x 152	0.07	2.03	119	6.7	3.7 - 5.5 - 8.9	9.2	2.8 - 4.3 - 6.9	11.8	1.6 - 2.5 - 4.0	-	36	25	26	12	-	-
		3.30	193	17.8	6.0 - 8.0 - 11.3	24.4	4.6 - 6.2 - 8.8	31.1	2.7 - 3.6 - 5.1	23	48	38	39	30	20	15
		4.57	267	34.1	7.7 - 9.4 - 13.3	46.8	5.9 - 7.3 - 10.3	59.6	3.5 - 4.2 - 6.0	33	55	47	48	42	37	31
		5.84	341	55.6	8.7 - 10.6 - 15.0	76.4	6.7 - 8.2 - 11.6	97.3	3.9 - 4.8 - 6.8	40	61	54	54	52	49	44
		7.11	416	82.4	9.6 - 11.7 - 16.6	113.3	7.4 - 9.1 - 12.9	144.2	4.3 - 5.3 - 7.5	46	66	59	60	59	58	54
305 x 254	0.08	1.52	102	3.8	2.8 - 4.4 - 8.2	5.2	2.1 - 3.4 - 6.4	6.6	1.2 - 2.0 - 3.7	-	30	17	19	-	-	-
		2.79	188	12.7	5.4 - 7.9 - 11.1	17.5	4.2 - 6.1 - 8.6	22.3	2.4 - 3.5 - 5.0	18	44	34	35	24	13	-
		4.06	273	26.9	7.8 - 9.5 - 13.4	37.0	6.0 - 7.4 - 10.4	47.1	3.5 - 4.3 - 6.0	30	53	44	45	38	31	26
		5.33	358	46.4	8.9 - 10.9 - 15.4	63.7	6.9 - 8.4 - 11.9	81.1	4.0 - 4.9 - 6.9	38	60	52	53	49	45	40
		6.60	443	71.1	9.9 - 12.1 - 17.1	97.7	7.7 - 9.4 - 13.3	124.3	4.5 - 5.5 - 7.7	44	64	58	58	57	55	51
559 x 152	0.09	1.52	110	3.8	2.9 - 4.6 - 8.5	5.2	2.2 - 3.5 - 6.6	6.6	1.3 - 2.1 - 3.8	-	31	18	19	-	-	-
		2.79	201	12.7	5.6 - 8.2 - 11.5	17.5	4.3 - 6.3 - 8.9	22.3	2.5 - 3.7 - 5.2	19	45	34	35	25	13	-
		4.06	293	26.9	8.0 - 9.8 - 13.9	37.0	6.2 - 7.6 - 10.8	47.1	3.6 - 4.4 - 6.3	30	53	45	45	39	32	26
		5.33	384	46.4	9.2 - 11.3 - 15.9	63.7	7.1 - 8.7 - 12.4	81.1	4.1 - 5.1 - 7.2	38	60	52	53	49	45	40
		6.60	475	71.1	10.2 - 12.5 - 17.7	97.7	7.9 - 9.7 - 13.7	124.3	4.6 - 5.6 - 8.0	44	65	58	59	57	56	51

NOTE: See notes on page I1-43.

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80, 880, 4880, 800 Series Performance Data: Horizontal Throw

METRIC DATA: 80, 580, 880, 5880, 585, 5885, 480, 4880, 800, 5800 (WITH OBD/MULTILOUVER)

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
				mm	m ²	m/s	L/s	Pa	m		Pa	m	Pa	m		

SUPPLY GRILLES

80 - 880 - 4880 - 800

NOTE: See notes on page I1-43.

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I1 SUPPLY GRILLES

80, 880, 4880, 800 Series | Supply



80, 880, 4880, 800 Series Performance Data: Horizontal Throw

METRIC DATA: 80, 580, 880, 5880, 585, 5885, 480, 4880, 800, 5800 (WITH OBD/MULTILOUVER)

Table with columns for Nom Duct, Duct Area, Neck Vel, Air Flow, and Throw distances (0°, 22.5°, 45°) for various grille models (864, 914, 1067, 1219, 965, 1067, 1168, 1067, 1016, 1219).

NOTE: See notes on page I1-43.

80, 880, 4880, 800 Series Performance Data: Horizontal Throw
METRIC DATA: 80, 580, 880, 5880, 585, 5885, 480, 4880, 800, 5800 (WITH OBD/MULTILOUVER)

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
				Pa	m	Pa	m	Pa	m							
1067 x 1067	1.14	1.52	1673	3.8	11.1 - 17.9 - 33.3	5.2	8.6 - 13.8 - 25.8	6.6	5.0 - 8.0 - 15.0	12	42	30	31	14	-	-
		2.16	2370	7.6	16.9 - 25.3 - 39.6	10.4	13.1 - 19.6 - 30.7	13.3	7.6 - 11.4 - 17.8	22	51	39	40	27	12	-
		2.79	3067	12.7	21.8 - 31.9 - 45.1	17.5	16.9 - 24.7 - 34.9	22.3	9.8 - 14.3 - 20.3	30	57	46	47	37	25	19
		3.43	3764	19.2	26.8 - 35.3 - 49.9	26.3	20.8 - 27.4 - 38.7	33.5	12.1 - 15.9 - 22.5	36	61	52	53	44	35	30
		4.06	4461	26.9	31.4 - 38.4 - 54.3	37.0	24.3 - 29.8 - 42.1	47.1	14.1 - 17.3 - 24.5	41	65	56	57	51	43	38
1118 x 1118	1.25	1.52	1839	3.8	11.7 - 18.7 - 34.9	5.2	9.0 - 14.5 - 27.0	6.6	5.3 - 8.4 - 15.7	12	43	30	31	14	-	-
		2.16	2606	7.6	17.7 - 26.5 - 41.5	10.4	13.7 - 20.6 - 32.2	13.3	8.0 - 11.9 - 18.7	23	51	40	41	27	13	-
		2.79	3372	12.7	22.9 - 33.4 - 47.2	17.5	17.7 - 25.9 - 36.6	22.3	10.3 - 15.0 - 21.3	31	57	47	48	37	25	20
		3.43	4138	19.2	28.1 - 37.0 - 52.3	26.3	21.8 - 28.7 - 40.6	33.5	12.6 - 16.7 - 23.6	37	62	52	53	45	35	30
		4.06	4904	26.9	32.9 - 40.3 - 57.0	37.0	25.5 - 31.2 - 44.2	47.1	14.8 - 18.1 - 25.6	42	66	57	58	51	44	39
1219 x 1067	1.30	1.52	1916	3.8	11.9 - 19.1 - 35.6	5.2	9.2 - 14.8 - 27.6	6.6	5.4 - 8.6 - 16.0	13	43	30	31	14	-	-
		2.16	2715	7.6	18.1 - 27.1 - 42.4	10.4	14.0 - 21.0 - 32.9	13.3	8.1 - 12.2 - 19.1	23	51	40	41	27	13	-
		2.79	3513	12.7	23.4 - 34.1 - 48.2	17.5	18.1 - 26.4 - 37.4	22.3	10.5 - 15.3 - 21.7	31	57	47	48	37	26	20
		3.43	4312	19.2	28.7 - 37.8 - 53.4	26.3	22.2 - 29.3 - 41.4	33.5	12.9 - 17.0 - 24.0	37	62	52	53	45	36	30
		4.06	5110	26.9	33.6 - 41.1 - 58.2	37.0	26.0 - 31.9 - 45.1	47.1	15.1 - 18.5 - 26.2	42	66	57	58	51	44	39
1168 x 1168	1.37	1.52	2013	3.8	12.2 - 19.6 - 36.5	5.2	9.5 - 15.2 - 28.3	6.6	5.5 - 8.8 - 16.4	13	43	30	32	14	-	-
		2.16	2852	7.6	18.5 - 27.8 - 43.4	10.4	14.3 - 21.5 - 33.7	13.3	8.3 - 12.5 - 19.6	23	51	40	41	28	13	-
		2.79	3691	12.7	24.0 - 34.9 - 49.4	17.5	18.6 - 27.1 - 38.3	22.3	10.8 - 15.7 - 22.2	31	57	47	48	37	26	20
		3.43	4530	19.2	29.4 - 38.7 - 54.8	26.3	22.8 - 30.0 - 42.4	33.5	13.2 - 17.4 - 24.6	37	62	53	54	45	36	30
		4.06	5369	26.9	34.4 - 42.2 - 59.6	37.0	26.7 - 32.7 - 46.2	47.1	15.5 - 19.0 - 26.8	42	66	57	58	51	44	39
1219 x 1168	1.42	1.52	2102	3.8	12.5 - 20.0 - 37.3	5.2	9.7 - 15.5 - 28.9	6.6	5.6 - 9.0 - 16.8	13	43	31	32	15	-	-
		2.16	2978	7.6	18.9 - 28.4 - 44.4	10.4	14.7 - 22.0 - 34.4	13.3	8.5 - 12.8 - 20.0	23	52	40	41	28	13	-
		2.79	3854	12.7	24.5 - 35.7 - 50.5	17.5	19.0 - 27.7 - 39.1	22.3	11.0 - 16.1 - 22.7	31	58	47	48	37	26	20
		3.43	4730	19.2	30.0 - 39.6 - 56.0	26.3	23.3 - 30.7 - 43.4	33.5	13.5 - 17.8 - 25.2	37	62	53	54	45	36	31
		4.06	5606	26.9	35.2 - 43.1 - 60.9	37.0	27.3 - 33.4 - 47.2	47.1	15.8 - 19.4 - 27.4	42	66	57	58	52	44	39
1219 x 1219	1.49	1.52	2195	3.8	12.8 - 20.5 - 38.1	5.2	9.9 - 15.9 - 29.5	6.6	5.7 - 9.2 - 17.2	13	44	31	32	15	-	-
		2.16	3110	7.6	19.3 - 29.0 - 45.4	10.4	15.0 - 22.5 - 35.2	13.3	8.7 - 13.0 - 20.4	24	52	40	41	28	13	-
		2.79	4024	12.7	25.0 - 36.5 - 51.6	17.5	19.4 - 28.3 - 40.0	22.3	11.3 - 16.4 - 23.2	31	58	47	48	38	26	20
		3.43	4939	19.2	30.7 - 40.4 - 57.2	26.3	23.8 - 31.3 - 44.3	33.5	13.8 - 18.2 - 25.7	37	63	53	54	45	36	31
		4.06	5854	26.9	35.9 - 44.0 - 62.2	37.0	27.9 - 34.1 - 48.2	47.1	16.2 - 19.8 - 28.0	42	66	58	58	52	45	39

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 correction factors in table below. See Krueger's selection software for performance data not shown, including octave band data.

NC Correction Damper (Add)		NC Correction Blade Deflection (Add)			Throw Correction (Multiply)		Pt Correction (Multiply)	
OBD	No OBD	0°	22.5°	45°	OBD	No OBD	OBD	No OBD
0	-2	0	+4	+9	1	0.98	1	0.88

SUPPLY GRILLES

 8
0
-
8
8
0
-
4
8
8
0
-
8
0
0