

5815 Performance Data: Horizontal Throw

IP DATA: 5815 (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							
12" x 12"	1.00	300	288	.016	7 - 15 - 29	.018	5 - 11 - 23	.019	3 - 7 - 13	-	18	20	16	-	-	-
		500	479	.044	16 - 24 - 40	.049	13 - 19 - 31	.053	7 - 11 - 18	13	29	31	29	24	16	-
		700	671	.086	23 - 34 - 48	.096	18 - 26 - 37	.104	10 - 15 - 21	23	36	38	38	34	29	20
		900	863	.143	29 - 38 - 54	.158	23 - 30 - 42	.172	13 - 17 - 24	31	41	44	44	41	38	29
		1100	1055	.213	34 - 42 - 60	.236	27 - 33 - 46	.257	16 - 19 - 27	37	45	48	49	48	45	37
18" x 10"	1.25	300	361	.016	8 - 16 - 33	.018	6 - 13 - 25	.019	4 - 7 - 15	-	19	21	17	-	-	-
		500	601	.044	18 - 27 - 45	.049	14 - 21 - 35	.053	8 - 12 - 20	14	30	32	30	25	17	-
		700	841	.086	26 - 38 - 53	.096	20 - 29 - 41	.104	12 - 17 - 24	24	37	39	39	35	30	21
		900	1082	.143	33 - 43 - 60	.158	25 - 33 - 47	.172	15 - 19 - 27	32	42	45	45	42	39	30
		1100	1322	.213	39 - 47 - 67	.236	30 - 37 - 52	.257	17 - 21 - 30	38	46	49	50	48	46	38
14" x 14"	1.36	300	394	.016	8 - 17 - 34	.018	6 - 13 - 27	.019	4 - 8 - 15	-	19	21	18	-	-	-
		500	656	.044	19 - 29 - 47	.049	15 - 22 - 37	.053	9 - 13 - 21	15	30	32	31	25	18	-
		700	919	.086	27 - 39 - 56	.096	21 - 31 - 43	.104	12 - 18 - 25	25	37	40	39	35	30	21
		900	1182	.143	34 - 45 - 63	.158	27 - 35 - 49	.172	15 - 20 - 28	32	42	45	45	43	39	31
		1100	1444	.213	40 - 49 - 70	.236	31 - 38 - 54	.257	18 - 22 - 31	38	46	49	50	49	47	39
18" x 12"	1.50	300	435	.016	9 - 18 - 36	.018	7 - 14 - 28	.019	4 - 8 - 16	-	20	22	18	-	-	-
		500	724	.044	20 - 30 - 49	.049	16 - 23 - 38	.053	9 - 14 - 22	15	30	33	31	25	18	-
		700	1014	.086	28 - 41 - 59	.096	22 - 32 - 45	.104	13 - 19 - 26	25	37	40	40	36	30	22
		900	1304	.143	36 - 47 - 66	.158	28 - 36 - 51	.172	16 - 21 - 30	33	43	45	46	43	40	31
		1100	1593	.213	42 - 52 - 73	.236	33 - 40 - 57	.257	19 - 23 - 33	39	47	50	51	49	47	39
22" x 10"	1.53	300	442	.016	9 - 18 - 36	.018	7 - 14 - 28	.019	4 - 8 - 16	-	20	22	18	-	-	-
		500	736	.044	20 - 30 - 50	.049	16 - 24 - 39	.053	9 - 14 - 22	15	31	33	31	25	18	-
		700	1031	.086	28 - 42 - 59	.096	22 - 32 - 46	.104	13 - 19 - 27	25	38	40	40	36	31	22
		900	1325	.143	36 - 47 - 67	.158	28 - 37 - 52	.172	16 - 21 - 30	33	43	45	46	43	40	31
		1100	1620	.213	43 - 52 - 74	.236	33 - 41 - 57	.257	19 - 24 - 33	39	47	50	51	49	47	39
24" x 10"	1.67	200	322	.007	4 - 9 - 25	.008	3 - 7 - 20	.009	2 - 4 - 11	-	12	13	-	-	-	-
		400	643	.028	16 - 25 - 47	.031	13 - 20 - 36	.034	7 - 11 - 21	-	26	28	26	19	-	-
		600	965	.064	25 - 38 - 57	.070	20 - 29 - 44	.077	11 - 17 - 26	21	35	37	36	31	25	16
		800	1286	.113	34 - 47 - 66	.125	26 - 36 - 51	.136	15 - 21 - 30	30	41	43	43	40	36	27
		1000	1608	.176	42 - 52 - 74	.195	33 - 40 - 57	.213	19 - 23 - 33	37	45	48	49	47	44	36
18" x 14"	1.75	200	339	.007	4 - 9 - 26	.008	3 - 7 - 20	.009	2 - 4 - 12	-	12	13	-	-	-	-
		400	678	.028	17 - 26 - 48	.031	13 - 20 - 37	.034	7 - 12 - 22	-	26	28	26	19	-	-
		600	1017	.064	26 - 39 - 59	.070	20 - 30 - 45	.077	12 - 18 - 26	21	35	37	36	32	25	16
		800	1356	.113	35 - 48 - 68	.125	27 - 37 - 52	.136	16 - 22 - 30	30	41	44	44	40	36	27
		1000	1695	.176	43 - 54 - 76	.195	34 - 41 - 59	.213	20 - 24 - 34	37	46	48	49	47	44	36
16" x 16"	1.78	200	345	.007	4 - 9 - 26	.008	3 - 7 - 20	.009	2 - 4 - 12	-	12	14	-	-	-	-
		400	689	.028	17 - 26 - 48	.031	13 - 20 - 37	.034	8 - 12 - 22	-	27	29	26	19	11	-
		600	1034	.064	26 - 39 - 59	.070	20 - 31 - 46	.077	12 - 18 - 27	21	35	37	36	32	26	16
		800	1378	.113	35 - 48 - 68	.125	27 - 37 - 53	.136	16 - 22 - 31	30	41	44	44	40	36	27
		1000	1723	.176	44 - 54 - 76	.195	34 - 42 - 59	.213	20 - 24 - 34	37	46	48	49	47	44	36
24" x 12"	2.00	200	388	.007	4 - 10 - 28	.008	3 - 8 - 22	.009	2 - 5 - 13	-	13	14	-	-	-	-
		400	775	.028	18 - 28 - 51	.031	14 - 22 - 40	.034	8 - 13 - 23	-	27	29	27	20	11	-
		600	1163	.064	28 - 42 - 63	.070	22 - 32 - 49	.077	13 - 19 - 28	22	36	38	37	32	26	17
		800	1550	.113	37 - 51 - 72	.125	29 - 40 - 56	.136	17 - 23 - 33	31	42	44	44	41	37	28
		1000	1938	.176	46 - 57 - 81	.195	36 - 44 - 63	.213	21 - 26 - 36	37	46	49	50	48	45	37
18" x 18"	2.25	200	438	.007	5 - 11 - 30	.008	4 - 8 - 23	.009	2 - 5 - 13	-	13	15	-	-	-	-
		400	875	.028	19 - 30 - 54	.031	15 - 23 - 42	.034	9 - 13 - 24	-	28	30	27	20	12	-
		600	1313	.064	30 - 44 - 67	.070	23 - 34 - 52	.077	13 - 20 - 30	23	36	38	37	33	27	17
		800	1750	.113	39 - 54 - 77	.125	31 - 42 - 60	.136	18 - 24 - 35	31	42	45	45	41	37	28
		1000	2188	.176	49 - 61 - 86	.195	38 - 47 - 67	.213	22 - 27 - 39	38	47	50	50	48	45	37
24" x 14"	2.33	200	454	.007	5 - 11 - 30	.008	4 - 8 - 23	.009	2 - 5 - 14	-	13	15	-	-	-	-
		400	907	.028	19 - 30 - 55	.031	15 - 23 - 43	.034	9 - 14 - 25	11	28	30	27	21	12	-
		600	1361	.064	30 - 45 - 68	.070	23 - 35 - 53	.077	14 - 20 - 31	23	36	39	38	33	27	18
		800	1814	.113	40 - 55 - 78	.125	31 - 43 - 61	.136	18 - 25 - 35	31	42	45	45	42	37	29
		1000	2268	.176	50 - 62 - 88	.195	39 - 48 - 68	.213	23 - 28 - 39	38	47	50	50	48	46	37

SUPPLY GRILLES

5 8 1 5

NOTE: See notes on page I1-70.

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5815 Performance Data: Horizontal Throw

IP DATA: 5815 (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	ft²	FPM	CFM	"WG	ft		"WG	ft	"WG	ft			
30" x 12"	2.50	200	486	.007	5 - 11 - 31	.008	4 - 9 - 24	.009	2 - 5 - 14	-	14	15	-	-	-	-	
		400	971	.028	20 - 31 - 57	.031	15 - 24 - 44	.034	9 - 14 - 26	11	28	30	28	21	12	-	
		600	1457	.064	31 - 47 - 70	.070	24 - 36 - 54	.077	14 - 21 - 32	23	37	39	38	33	27	18	
		800	1942	.113	42 - 57 - 81	.125	32 - 44 - 63	.136	19 - 26 - 36	32	42	45	45	42	38	29	
		1000	2428	.176	52 - 64 - 91	.195	40 - 50 - 70	.213	23 - 29 - 41	38	47	50	51	49	46	38	
24" x 16"	2.67	200	520	.007	5 - 12 - 32	.008	4 - 9 - 25	.009	2 - 5 - 15	-	14	15	11	-	-	-	
		400	1039	.028	21 - 32 - 59	.031	16 - 25 - 46	.034	9 - 15 - 27	11	28	30	28	21	12	-	
		600	1559	.064	32 - 48 - 73	.070	25 - 37 - 56	.077	15 - 22 - 33	23	37	39	38	33	27	18	
		800	2078	.113	43 - 59 - 84	.125	33 - 46 - 65	.136	19 - 27 - 38	32	43	45	45	42	38	29	
		1000	2598	.176	54 - 66 - 94	.195	42 - 51 - 73	.213	24 - 30 - 42	39	47	50	51	49	46	38	
20" x 20"	2.78	200	542	.007	5 - 12 - 33	.008	4 - 9 - 26	.009	2 - 5 - 15	-	14	15	11	-	-	-	
		400	1084	.028	21 - 33 - 61	.031	16 - 26 - 47	.034	9 - 15 - 27	11	29	31	28	21	13	-	
		600	1625	.064	33 - 49 - 74	.070	26 - 38 - 57	.077	15 - 22 - 33	24	37	39	38	34	27	18	
		800	2167	.113	44 - 61 - 86	.125	34 - 47 - 66	.136	20 - 27 - 39	32	43	46	46	42	38	29	
		1000	2709	.176	55 - 68 - 96	.195	43 - 52 - 74	.213	25 - 30 - 43	39	48	50	51	49	46	38	
24" x 18"	3.00	200	586	.007	5 - 12 - 34	.008	4 - 10 - 27	.009	2 - 6 - 15	-	14	16	11	-	-	-	
		400	1171	.028	22 - 34 - 63	.031	17 - 27 - 49	.034	10 - 15 - 28	12	29	31	28	22	13	-	
		600	1757	.064	34 - 51 - 77	.070	27 - 40 - 60	.077	15 - 23 - 35	24	37	40	39	34	28	19	
		800	2342	.113	46 - 63 - 89	.125	35 - 49 - 69	.136	21 - 28 - 40	33	43	46	46	43	38	30	
		1000	2928	.176	57 - 70 - 99	.195	44 - 55 - 77	.213	26 - 32 - 45	39	48	51	52	49	47	38	
30" x 16"	3.33	200	651	.007	6 - 13 - 36	.008	4 - 10 - 28	.009	3 - 6 - 16	-	15	16	11	-	-	-	
		400	1302	.028	23 - 36 - 66	.031	18 - 28 - 51	.034	10 - 16 - 30	12	29	31	29	22	13	-	
		600	1952	.064	36 - 54 - 81	.070	28 - 42 - 63	.077	16 - 24 - 37	25	38	40	39	34	28	19	
		800	2603	.113	48 - 66 - 94	.125	37 - 51 - 73	.136	22 - 30 - 42	33	44	46	46	43	39	30	
		1000	3254	.176	60 - 74 - 105	.195	47 - 57 - 81	.213	27 - 33 - 47	40	48	51	52	50	47	39	
22" x 22"	3.36	200	657	.007	6 - 13 - 36	.008	4 - 10 - 28	.009	3 - 6 - 16	-	15	16	12	-	-	-	
		400	1314	.028	23 - 36 - 67	.031	18 - 28 - 52	.034	10 - 16 - 30	12	29	31	29	22	13	-	
		600	1971	.064	36 - 54 - 82	.070	28 - 42 - 63	.077	16 - 24 - 37	25	38	40	39	34	28	19	
		800	2628	.113	48 - 67 - 94	.125	37 - 52 - 73	.136	22 - 30 - 42	33	44	46	46	43	39	30	
		1000	3285	.176	60 - 75 - 105	.195	47 - 58 - 82	.213	27 - 34 - 47	40	48	51	52	50	47	39	
36" x 14"	3.50	200	683	.007	6 - 13 - 37	.008	5 - 10 - 29	.009	3 - 6 - 17	-	15	16	12	-	-	-	
		400	1365	.028	24 - 37 - 68	.031	18 - 29 - 53	.034	11 - 17 - 31	13	30	32	29	22	14	-	
		600	2048	.064	37 - 55 - 83	.070	29 - 43 - 64	.077	17 - 25 - 37	25	38	40	39	35	28	19	
		800	2731	.113	49 - 68 - 96	.125	38 - 53 - 74	.136	22 - 31 - 43	33	44	47	47	43	39	30	
		1000	3414	.176	62 - 76 - 107	.195	48 - 59 - 83	.213	28 - 34 - 48	40	49	51	52	50	47	39	
24" x 22"	3.67	200	717	.007	6 - 14 - 38	.008	5 - 11 - 29	.009	3 - 6 - 17	-	15	17	12	-	-	-	
		375	1345	.025	21 - 36 - 67	.027	17 - 28 - 52	.030	10 - 16 - 30	11	28	30	28	21	11	-	
		550	1973	.053	35 - 52 - 82	.059	27 - 40 - 63	.064	16 - 23 - 37	22	36	39	37	32	25	16	
		725	2601	.093	46 - 66 - 94	.103	35 - 51 - 73	.112	21 - 30 - 42	31	42	45	44	41	36	27	
		900	3229	.143	57 - 74 - 104	.158	44 - 57 - 81	.172	26 - 33 - 47	37	47	49	50	47	44	35	
30" x 18"	3.75	200	733	.007	6 - 14 - 38	.008	5 - 11 - 30	.009	3 - 6 - 17	-	15	17	12	-	-	-	
		375	1375	.025	22 - 36 - 68	.027	17 - 28 - 53	.030	10 - 16 - 31	11	28	30	28	21	11	-	
		550	2017	.053	35 - 53 - 83	.059	27 - 41 - 64	.064	16 - 24 - 37	22	36	39	37	32	26	16	
		725	2659	.093	46 - 67 - 95	.103	36 - 52 - 73	.112	21 - 30 - 43	31	42	45	44	41	36	27	
		900	3300	.143	57 - 75 - 106	.158	45 - 58 - 82	.172	26 - 34 - 48	37	47	49	50	47	44	35	
24" x 24"	4.00	200	783	.007	6 - 14 - 40	.008	5 - 11 - 31	.009	3 - 6 - 18	-	16	17	12	-	-	-	
		375	1469	.025	22 - 37 - 70	.027	17 - 29 - 55	.030	10 - 17 - 32	11	29	31	28	21	12	-	
		550	2154	.053	36 - 54 - 85	.059	28 - 42 - 66	.064	16 - 24 - 38	23	37	39	38	33	26	17	
		725	2840	.093	48 - 69 - 98	.103	37 - 54 - 76	.112	22 - 31 - 44	31	43	45	45	41	36	27	
		900	3525	.143	59 - 77 - 109	.158	46 - 60 - 85	.172	27 - 35 - 49	38	47	50	50	48	44	36	
36" x 18"	4.50	200	881	.007	7 - 15 - 42	.008	5 - 12 - 33	.009	3 - 7 - 19	-	16	18	13	-	-	-	
		375	1653	.025	24 - 39 - 75	.027	18 - 31 - 58	.030	11 - 18 - 34	12	29	31	29	21	12	-	
		550	2424	.053	38 - 58 - 91	.059	30 - 45 - 70	.064	17 - 26 - 41	23	37	40	38	33	26	17	
		725	3195	.093	51 - 73 - 104	.103	39 - 57 - 81	.112	23 - 33 - 47	32	43	46	45	41	37	28	
		900	3966	.143	63 - 82 - 116	.158	49 - 63 - 90	.172	28 - 37 - 52	38	48	50	51	48	45	36	

NOTE: See notes on page I1-70.

5815 Performance Data: Horizontal Throw

IP DATA: 5815 (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	ft²	FPM	CFM	"WG	ft	"WG	ft	"WG	ft							
30" x 24"	5.00	200	981	.007	7 - 16 - 44	.008	5 - 12 - 34	.009	3 - 7 - 20	-	17	18	13	-	-	-
		375	1840	.025	25 - 42 - 79	.027	19 - 32 - 61	.030	11 - 19 - 35	12	30	32	29	22	13	-
		550	2699	.053	41 - 61 - 96	.059	31 - 47 - 74	.064	18 - 27 - 43	24	38	40	39	34	27	18
		725	3557	.093	54 - 78 - 110	.103	41 - 60 - 85	.112	24 - 35 - 49	32	44	46	46	42	37	28
		900	4416	.143	66 - 86 - 122	.158	52 - 67 - 95	.172	30 - 39 - 55	39	48	51	51	49	45	37
36" x 22"	5.50	200	1080	.007	7 - 17 - 46	.008	6 - 13 - 36	.009	3 - 8 - 21	-	17	18	14	-	-	-
		375	2025	.025	26 - 44 - 83	.027	20 - 34 - 64	.030	12 - 20 - 37	13	30	32	30	22	13	-
		550	2970	.053	43 - 64 - 100	.059	33 - 50 - 78	.064	19 - 29 - 45	24	38	40	39	34	27	18
		725	3915	.093	56 - 81 - 115	.103	44 - 63 - 89	.112	25 - 37 - 52	33	44	46	46	42	37	29
		900	4860	.143	70 - 91 - 128	.158	54 - 70 - 99	.172	31 - 41 - 58	39	48	51	52	49	45	37
36" x 24"	6.00	200	1179	.007	8 - 17 - 49	.008	6 - 14 - 38	.009	3 - 8 - 22	-	17	19	14	-	-	-
		375	2211	.025	27 - 46 - 86	.027	21 - 35 - 67	.030	12 - 20 - 39	13	31	33	30	23	13	-
		550	3243	.053	45 - 67 - 105	.059	35 - 52 - 81	.064	20 - 30 - 47	25	39	41	40	34	28	18
		725	4275	.093	59 - 85 - 120	.103	45 - 66 - 93	.112	26 - 38 - 54	33	44	47	47	43	38	29
		900	5307	.143	73 - 95 - 134	.158	56 - 73 - 104	.172	33 - 43 - 60	39	49	52	52	49	46	37

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