

1340 Performance Data: Horizontal Throw

IP DATA: 1340 (NO DAMPER)

SECURITY GRILLES

	Neck Vel	Pt	Air Flow	NC	Throw Direction						
					1-Way Throw	2-Way Throw	3 - Side A		3 - Side B		4-Way Throw
							Flow	Throw	Flow	Throw	
							FPM	"WG	CFM	ft	
6" x 6"	200	0.023	50	-	3 - 4 - 7	1 - 2 - 4	13	1 - 2 - 4	19	1 - 2 - 3	1 - 2 - 4
	400	0.092	100	16	6 - 7 - 11	3 - 4 - 5	25	3 - 4 - 9	38	2 - 3 - 6	3 - 4 - 9
	500	0.144	125	23	7 - 8 - 12	3 - 4 - 6	31	4 - 6 - 10	47	3 - 4 - 8	4 - 6 - 10
	600	0.207	150	29	7 - 9 - 13	4 - 5 - 6	38	4 - 7 - 11	56	3 - 5 - 10	4 - 7 - 11
	700	0.282	175	33	8 - 10 - 14	4 - 5 - 7	44	5 - 8 - 12	66	4 - 6 - 11	5 - 8 - 12
	800	0.368	200	37	9 - 11 - 15	4 - 5 - 7	50	6 - 9 - 13	75	4 - 6 - 13	6 - 9 - 13
9" x 9"	200	0.023	113	-	4 - 6 - 11	2 - 3 - 6	28	2 - 3 - 7	42	2 - 4 - 7	2 - 3 - 7
	300	0.052	169	14	6 - 9 - 14	3 - 5 - 7	42	3 - 5 - 10	63	4 - 5 - 11	3 - 5 - 10
	400	0.092	225	22	8 - 11 - 16	4 - 6 - 8	56	4 - 7 - 13	84	5 - 7 - 15	4 - 7 - 13
	500	0.144	281	29	10 - 13 - 18	5 - 6 - 9	70	6 - 8 - 15	105	6 - 9 - 17	6 - 8 - 15
	600	0.207	338	35	11 - 14 - 19	6 - 7 - 10	84	7 - 10 - 17	127	7 - 11 - 19	7 - 10 - 17
	700	0.282	394	39	12 - 15 - 21	6 - 7 - 10	98	8 - 12 - 18	148	9 - 13 - 21	8 - 12 - 18
12" x 12"	200	0.023	200	-	6 - 8 - 15	3 - 4 - 7	50	3 - 4 - 9	75	3 - 5 - 10	3 - 4 - 9
	300	0.052	300	18	8 - 12 - 18	4 - 6 - 9	75	4 - 7 - 13	113	5 - 7 - 15	4 - 7 - 13
	400	0.092	400	27	11 - 15 - 21	6 - 7 - 10	100	6 - 9 - 18	150	6 - 10 - 19	6 - 9 - 18
	500	0.144	500	33	14 - 17 - 24	7 - 8 - 12	125	7 - 11 - 20	188	8 - 12 - 23	7 - 11 - 20
	550	0.174	550	36	14 - 18 - 25	7 - 9 - 12	138	8 - 12 - 21	206	9 - 13 - 24	8 - 12 - 21
	600	0.207	600	39	15 - 18 - 26	7 - 9 - 13	150	9 - 13 - 22	225	10 - 15 - 26	9 - 13 - 22
15" x 15"	200	0.023	313	-	7 - 10 - 19	3 - 5 - 9	78	3 - 6 - 11	117	4 - 6 - 12	3 - 6 - 11
	300	0.052	469	21	10 - 16 - 23	5 - 8 - 11	117	6 - 8 - 17	176	6 - 9 - 18	6 - 8 - 17
	400	0.092	625	30	14 - 19 - 26	7 - 9 - 13	156	7 - 11 - 22	234	8 - 12 - 24	7 - 11 - 22
	450	0.116	703	34	16 - 20 - 28	8 - 10 - 14	176	8 - 12 - 24	264	9 - 14 - 27	8 - 12 - 24
	500	0.144	781	37	17 - 21 - 30	8 - 10 - 15	195	9 - 14 - 25	293	10 - 15 - 29	9 - 14 - 25
	550	0.174	859	40	18 - 22 - 31	9 - 11 - 15	215	10 - 15 - 27	322	11 - 17 - 31	10 - 15 - 27
18" x 18"	200	0.023	477	-	8 - 11 - 21	4 - 6 - 10	100	8 - 11 - 21	150	9 - 13 - 24	8 - 11 - 21
	300	0.052	716	27	11 - 15 - 21	6 - 7 - 10	150	10 - 15 - 26	225	12 - 18 - 30	10 - 15 - 26
	400	0.092	955	36	14 - 18 - 25	7 - 9 - 12	200	13 - 19 - 31	300	15 - 22 - 36	13 - 19 - 31
	450	0.116	1043	40	15 - 18 - 26	7 - 9 - 13	225	14 - 20 - 33	338	16 - 23 - 39	14 - 20 - 33
	500	0.144	1131	44	16 - 20 - 28	8 - 10 - 14	250	15 - 21 - 35	376	17 - 24 - 41	15 - 21 - 35
	550	0.174	1219	48	17 - 22 - 32	9 - 11 - 15	275	16 - 22 - 37	414	18 - 25 - 44	16 - 22 - 37
21" x 21"	200	0.023	580	-	9 - 12 - 24	5 - 8 - 12	125	9 - 12 - 24	188	12 - 18 - 36	9 - 12 - 24
	300	0.052	870	36	12 - 15 - 21	6 - 7 - 10	188	12 - 18 - 32	282	15 - 22 - 44	12 - 18 - 32
	400	0.092	1160	48	15 - 18 - 26	7 - 9 - 13	250	15 - 21 - 35	375	18 - 25 - 51	15 - 21 - 35
	450	0.116	1248	52	16 - 20 - 28	8 - 10 - 14	275	16 - 22 - 37	413	19 - 27 - 54	16 - 22 - 37
	500	0.144	1336	56	17 - 22 - 32	9 - 11 - 15	300	17 - 23 - 39	450	20 - 29 - 57	17 - 23 - 39
	550	0.174	1424	60	18 - 24 - 36	10 - 13 - 18	325	18 - 24 - 41	488	21 - 31 - 60	18 - 24 - 41
24" x 24"	200	0.023	683	-	10 - 13 - 18	5 - 8 - 12	150	10 - 13 - 18	225	13 - 19 - 35	10 - 13 - 18
	300	0.052	1025	48	13 - 16 - 22	6 - 9 - 13	225	13 - 19 - 35	338	16 - 23 - 43	13 - 19 - 35
	400	0.092	1367	64	16 - 20 - 28	8 - 10 - 14	300	16 - 22 - 37	450	19 - 27 - 54	16 - 22 - 37
	450	0.116	1455	68	17 - 22 - 32	9 - 11 - 15	325	17 - 23 - 39	488	20 - 29 - 57	17 - 23 - 39
	500	0.144	1543	72	18 - 24 - 36	10 - 13 - 18	350	18 - 24 - 41	525	21 - 31 - 60	18 - 24 - 41
	550	0.174	1631	76	19 - 26 - 40	11 - 14 - 19	375	19 - 25 - 44	563	22 - 33 - 63	19 - 26 - 40

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). 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 value of less than 10. The throw values given for 1-Throw is for [Total CFM] CFM per side. The throw values given for 2-Throw is for [(Total CFM)/2] CFM per side. The throw values given for 4-Throw is for [(Total CFM)/4] CFM per side. Reference page L1-41 for 'Side A' and 'Side B' detail. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.

1
3
4
0

© KRUEGER 2012

1340 Performance Data: Horizontal Throw
METRIC DATA: 1340 (NO DAMPER)

Neck Dim mm	Neck Vel m/s	Total Pres Pa	Static Pres Pa	Total Flow L/s	NC	Throw Direction						
						1-Way Throw m	2-Way Throw m	3 - Side A		3 - Side B		4-Way Throw m
								Flow L/s	Throw m	Flow L/s	Throw m	
152 x 152	1.02	5.7	5.1	24	-	0.8 - 1.3 - 2.3	0.4 - 0.6 - 1.1	6	0.4 - 0.7 - 1.3	9	0.2 - 0.5 - 1.0	0.4 - 0.7 - 1.3
	2.03	22.9	20.4	47	16	1.7 - 2.3 - 3.2	0.8 - 1.1 - 1.6	12	0.9 - 1.3 - 2.7	18	0.7 - 1.0 - 2.0	0.9 - 1.3 - 2.7
	2.54	35.8	31.9	59	23	2.1 - 2.5 - 3.6	1.0 - 1.3 - 1.8	15	1.1 - 1.7 - 3.1	22	0.8 - 1.2 - 2.5	1.1 - 1.7 - 3.1
	3.05	51.5	45.9	71	29	2.3 - 2.8 - 3.9	1.1 - 1.4 - 2.0	18	1.3 - 2.0 - 3.4	27	1.0 - 1.5 - 3.0	1.3 - 2.0 - 3.4
	3.56	70.1	62.5	83	33	2.5 - 3.0 - 4.2	1.2 - 1.5 - 2.1	21	1.6 - 2.3 - 3.6	31	1.1 - 1.7 - 3.4	1.6 - 2.3 - 3.6
	4.06	91.6	81.7	94	37	2.6 - 3.2 - 4.5	1.3 - 1.6 - 2.3	24	1.8 - 2.7 - 3.9	35	1.3 - 2.0 - 3.9	1.8 - 2.7 - 3.9
4.57	115.9	103.4	106	41	2.8 - 3.4 - 4.8	1.4 - 1.7 - 2.4	27	2.0 - 2.9 - 4.1	40	1.5 - 2.2 - 4.4	2.0 - 2.9 - 4.1	
229 x 229	1.02	5.7	5.1	53	-	1.3 - 1.9 - 3.4	0.6 - 0.9 - 1.7	13	0.6 - 1.0 - 2.0	20	0.7 - 1.1 - 2.2	0.6 - 1.0 - 2.0
	1.52	12.9	11.5	80	14	1.9 - 2.8 - 4.2	0.9 - 1.4 - 2.1	20	1.0 - 1.5 - 3.0	30	1.1 - 1.7 - 3.3	1.0 - 1.5 - 3.0
	2.03	22.9	20.4	106	22	2.5 - 3.4 - 4.8	1.3 - 1.7 - 2.4	27	1.3 - 2.0 - 4.0	40	1.5 - 2.2 - 4.4	1.3 - 2.0 - 4.0
	2.54	35.8	31.9	133	29	3.1 - 3.8 - 5.4	1.5 - 1.9 - 2.7	33	1.7 - 2.5 - 4.6	50	1.8 - 2.8 - 5.3	1.7 - 2.5 - 4.6
	3.05	51.5	45.9	159	35	3.4 - 4.2 - 5.9	1.7 - 2.1 - 2.9	40	2.0 - 3.0 - 5.1	60	2.2 - 3.3 - 5.8	2.0 - 3.0 - 5.1
	3.56	70.1	62.5	186	39	3.7 - 4.5 - 6.4	1.8 - 2.2 - 3.2	46	2.3 - 3.5 - 5.5	70	2.6 - 3.9 - 6.3	2.3 - 3.5 - 5.5
4.06	91.6	81.7	212	43	3.9 - 4.8 - 6.8	2.0 - 2.4 - 3.4	53	2.7 - 4.0 - 5.8	80	3.0 - 4.4 - 6.7	2.7 - 4.0 - 5.8	
305 x 305	1.02	5.7	5.1	94	-	1.7 - 2.5 - 4.5	0.8 - 1.3 - 2.3	24	0.8 - 1.3 - 2.7	35	1.0 - 1.5 - 3.0	0.8 - 1.3 - 2.7
	1.52	12.9	11.5	142	18	2.5 - 3.8 - 5.6	1.3 - 1.9 - 2.8	35	1.3 - 2.0 - 4.0	53	1.5 - 2.2 - 4.4	1.3 - 2.0 - 4.0
	2.03	22.9	20.4	189	27	3.4 - 4.5 - 6.4	1.7 - 2.3 - 3.2	47	1.8 - 2.7 - 5.4	71	2.0 - 3.0 - 5.9	1.8 - 2.7 - 5.4
	2.54	35.8	31.9	236	33	4.1 - 5.1 - 7.2	2.1 - 2.5 - 3.6	59	2.2 - 3.3 - 6.2	88	2.5 - 3.7 - 7.1	2.2 - 3.3 - 6.2
	2.79	43.3	38.6	260	36	4.3 - 5.3 - 7.5	2.2 - 2.6 - 3.7	65	2.5 - 3.7 - 6.5	97	2.7 - 4.1 - 7.4	2.5 - 3.7 - 6.5
	3.05	51.5	45.9	283	39	4.5 - 5.6 - 7.9	2.3 - 2.8 - 3.9	71	2.7 - 4.0 - 6.7	106	3.0 - 4.4 - 7.8	2.7 - 4.0 - 6.7
3.56	70.1	62.5	330	44	4.9 - 6.0 - 8.5	2.4 - 3.0 - 4.2	83	3.1 - 4.7 - 7.3	124	3.4 - 5.2 - 8.4	3.1 - 4.7 - 7.3	
381 x 381	1.02	5.7	5.1	147	-	2.1 - 3.1 - 5.7	1.1 - 1.6 - 2.8	37	1.0 - 1.7 - 3.3	55	1.2 - 1.8 - 3.7	1.0 - 1.7 - 3.3
	1.52	12.9	11.5	221	21	3.1 - 4.7 - 6.9	1.6 - 2.4 - 3.5	55	1.7 - 2.5 - 5.0	83	1.8 - 2.8 - 5.5	1.7 - 2.5 - 5.0
	2.03	22.9	20.4	295	30	4.2 - 5.7 - 8.0	2.1 - 2.8 - 4.0	74	2.2 - 3.3 - 6.7	111	2.5 - 3.7 - 7.4	2.2 - 3.3 - 6.7
	2.29	29.0	25.8	332	34	4.7 - 6.0 - 8.5	2.4 - 3.0 - 4.2	83	2.5 - 3.8 - 7.3	124	2.8 - 4.2 - 8.3	2.5 - 3.8 - 7.3
	2.54	35.8	31.9	369	37	5.2 - 6.3 - 9.0	2.6 - 3.2 - 4.5	92	2.8 - 4.2 - 7.7	138	3.1 - 4.6 - 8.9	2.8 - 4.2 - 7.7
	2.79	43.3	38.6	406	40	5.4 - 6.7 - 9.4	2.7 - 3.3 - 4.7	101	3.1 - 4.6 - 8.1	152	3.4 - 5.1 - 9.3	3.1 - 4.6 - 8.1
3.05	51.5	45.9	442	42	5.7 - 6.9 - 9.8	2.8 - 3.5 - 4.9	111	3.3 - 5.0 - 8.4	166	3.7 - 5.5 - 9.7	3.3 - 5.0 - 8.4	
457 x 457	1.27	8.9	8.0	265	19	3.1 - 4.7 - 7.6	1.6 - 2.4 - 3.8	66	1.7 - 2.5 - 5.0	100	1.8 - 2.8 - 5.5	1.7 - 2.5 - 5.0
	1.52	12.9	11.5	319	24	3.8 - 5.7 - 8.3	1.9 - 2.8 - 4.1	80	2.0 - 3.0 - 6.0	119	2.2 - 3.3 - 6.7	2.0 - 3.0 - 6.0
	1.78	17.5	15.6	372	29	4.4 - 6.4 - 9.0	2.2 - 3.2 - 4.5	93	2.3 - 3.5 - 7.0	139	2.6 - 3.9 - 7.8	2.3 - 3.5 - 7.0
	2.03	22.9	20.4	425	33	5.0 - 6.8 - 9.6	2.5 - 3.4 - 4.8	106	2.7 - 4.0 - 8.0	159	3.0 - 4.4 - 8.9	2.7 - 4.0 - 8.0
	2.29	29.0	25.8	478	36	5.7 - 7.2 - 10.2	2.8 - 3.6 - 5.1	119	3.0 - 4.5 - 8.8	179	3.3 - 5.0 - 10.0	3.0 - 4.5 - 8.8
	2.54	35.8	31.9	531	39	6.2 - 7.6 - 10.8	3.1 - 3.8 - 5.3	133	3.3 - 5.0 - 9.2	199	3.7 - 5.5 - 10.6	3.3 - 5.0 - 9.2
2.79	43.3	38.6	584	42	6.5 - 8.0 - 11.3	3.2 - 4.0 - 5.6	146	3.7 - 5.5 - 9.7	219	4.1 - 6.1 - 11.1	3.7 - 5.5 - 9.7	
533 x 533	1.27	8.9	8.0	361	21	3.7 - 5.5 - 8.9	1.8 - 2.8 - 4.4	90	2.0 - 2.9 - 5.9	136	2.2 - 3.2 - 6.5	2.0 - 2.9 - 5.9
	1.52	12.9	11.5	434	26	4.4 - 6.6 - 9.7	2.2 - 3.3 - 4.8	108	2.3 - 3.5 - 7.0	163	2.6 - 3.9 - 7.8	2.3 - 3.5 - 7.0
	1.78	17.5	15.6	506	31	5.1 - 7.4 - 10.5	2.6 - 3.7 - 5.2	126	2.7 - 4.1 - 8.2	190	3.0 - 4.5 - 9.1	2.7 - 4.1 - 8.2
	2.03	22.9	20.4	578	35	5.9 - 7.9 - 11.2	3.0 - 3.9 - 5.6	145	3.1 - 4.7 - 9.4	217	3.4 - 5.2 - 10.3	3.1 - 4.7 - 9.4
	2.29	29.0	25.8	650	39	6.6 - 8.4 - 11.9	3.3 - 4.2 - 5.9	163	3.5 - 5.3 - 10.2	244	3.9 - 5.8 - 11.6	3.5 - 5.3 - 10.2
	2.54	35.8	31.9	723	42	7.2 - 8.9 - 12.6	3.6 - 4.4 - 6.2	181	3.9 - 5.9 - 10.8	271	4.3 - 6.5 - 12.4	3.9 - 5.9 - 10.8
2.79	43.3	38.6	795	45	7.6 - 9.3 - 13.2	3.8 - 4.6 - 6.5	199	4.3 - 6.4 - 11.3	298	4.7 - 7.1 - 13.0	4.3 - 6.4 - 11.3	
610 x 610	1.02	5.7	5.1	378	16	3.4 - 5.0 - 9.1	1.7 - 2.5 - 4.5	94	1.6 - 2.7 - 5.4	142	2.0 - 3.0 - 5.9	1.6 - 2.7 - 5.4
	1.27	8.9	8.0	472	23	4.2 - 6.3 - 10.1	2.1 - 3.2 - 5.0	118	2.2 - 3.3 - 6.7	177	2.5 - 3.7 - 7.4	2.2 - 3.3 - 6.7
	1.52	12.9	11.5	566	28	5.0 - 7.6 - 11.1	2.5 - 3.8 - 5.5	142	2.7 - 4.0 - 8.0	212	3.0 - 4.4 - 8.9	2.7 - 4.0 - 8.0
	1.78	17.5	15.6	661	33	5.9 - 8.5 - 12.0	3.0 - 4.2 - 6.0	165	3.1 - 4.7 - 9.4	248	3.4 - 5.2 - 10.3	3.1 - 4.7 - 9.4
	2.03	22.9	20.4	755	37	6.7 - 9.1 - 12.8	3.4 - 4.5 - 6.4	189	3.6 - 5.4 - 10.7	283	3.9 - 5.9 - 11.8	3.6 - 5.4 - 10.7
	2.29	29.0	25.8	850	41	7.6 - 9.6 - 13.6	3.8 - 4.8 - 6.8	212	4.0 - 6.0 - 11.7	319	4.4 - 6.7 - 13.3	4.0 - 6.0 - 11.7
2.54	35.8	31.9	944	44	8.3 - 10.1 - 14.3	4.1 - 5.0 - 7.1	236	4.5 - 6.7 - 12.3	354	4.9 - 7.4 - 14.2	4.5 - 6.7 - 12.3	

NOTES: Throw values are given for isothermal conditions and terminal velocities of 150, 100, and 50 FPM (0.75, 0.50, and 0.25 m/s). 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 value of less than 10. The throw values given for 1-Throw is for [Total L/s] L/s per side. The throw values given for 2-Throw is for [(Total L/s)/2] L/s per side. The throw values given for 4-Throw is for [(Total L/s)/4] L/s per side. Reference page L1-41 for 'Side A' and 'Side B' detail. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. See Krueger's selection program for performance data not shown, including octave band data.