

5SH/CAD Performance Data: Horizontal/Vertical Throw
IP DATA: 5SH/CAD, 24"x24" PANEL (DAMPER OPEN)

Neck Dim	Neck Vel	Total Pres	Static Pres	Air Flow	NC	Discharge Air Pattern		
						Horizontal Throw	Vert Δ - 20°F Throw	Vert Δ + 20°F Throw
						ft	ft	ft
15" x 15"	200	0.006	0.003	313	-	1 - 2 - 7	1 - 2 - 10	1 - 2 - 7
	400	0.024	0.014	625	-	4 - 7 - 12	4 - 10 - 34	3 - 7 - 24
	600	0.053	0.030	938	-	7 - 10 - 15	10 - 22 - 44	7 - 15 - 30
	700	0.072	0.041	1094	16	8 - 11 - 16	13 - 30 - 47	9 - 21 - 32
	800	0.094	0.054	1250	24	9 - 12 - 17	18 - 34 - 50	12 - 24 - 35
	900	0.119	0.069	1406	31	10 - 13 - 18	22 - 38 - 53	15 - 26 - 37
1000	0.147	0.085	1563	38	11 - 14 - 19	28 - 40 - 56	19 - 27 - 39	
18" x 18"	200	0.006	0.003	450	-	1 - 3 - 8	1 - 3 - 12	1 - 2 - 8
	400	0.024	0.014	900	-	5 - 8 - 15	5 - 12 - 40	4 - 8 - 29
	600	0.053	0.030	1350	-	8 - 12 - 18	12 - 27 - 52	8 - 18 - 36
	700	0.072	0.041	1575	18	9 - 14 - 19	16 - 35 - 56	11 - 25 - 39
	800	0.094	0.054	1800	26	11 - 15 - 21	21 - 40 - 60	14 - 29 - 41
	900	0.119	0.069	2025	33	12 - 16 - 22	27 - 45 - 64	18 - 31 - 44
1000	0.147	0.085	2250	39	13 - 16 - 23	33 - 48 - 67	22 - 33 - 46	

IP DATA: 5SH/CAD, 24"x24" PANEL (DAMPER CLOSED)

Neck Dim	Neck Vel	Total Pres	Static Pres	Total Flow	NC	Horizontal Throw
in.	FPM	"WG	"WG	CFM		ft
15" x 15"	200	0.015	0.013	313	-	3 - 6 - 15
	300	0.035	0.029	469	-	6 - 12 - 19
	400	0.062	0.052	625	-	10 - 15 - 21
	500	0.097	0.081	781	-	13 - 17 - 24
	600	0.139	0.117	938	17	15 - 19 - 26
	700	0.190	0.159	1094	29	16 - 20 - 28
800	0.248	0.208	1250	39	18 - 21 - 30	
18" x 18"	200	0.015	0.013	450	-	3 - 7 - 18
	300	0.035	0.029	675	-	7 - 14 - 22
	400	0.062	0.052	900	-	12 - 18 - 26
	500	0.097	0.081	1125	-	15 - 20 - 29
	600	0.139	0.117	1350	19	18 - 22 - 32
	700	0.190	0.159	1575	31	20 - 24 - 34
800	0.248	0.208	1800	41	21 - 26 - 36	

NOTES: Throw values are given for isothermal conditions. Vertical throw values are given for temperature differences shown. Throw values are given for terminal velocities of 150, 100, and 50 FPM. 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. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70. See Krueger's selection software for performance data not shown, including octave band data.

METRIC DATA: 5SH/CAD, 24"x24" PANEL (DAMPER OPEN)

Neck Dim	Neck Vel	Total Pres	Static Pres	Total Flow	NC	Discharge Air Pattern		
						Horizontal Throw	Vert Δ - 11°C Throw	Vert Δ + 11°C Throw
						m	m	m
381 x 381	1.02	1.5	0.8	147	-	0.8 - 1.8 - 4.6	0.3 - 0.8 - 3.0	0.2 - 0.5 - 2.0
	2.03	5.9	3.4	295	-	3.1 - 4.6 - 6.5	1.3 - 3.0 - 10.3	0.9 - 2.0 - 7.3
	3.05	13.2	7.6	442	-	4.6 - 5.7 - 8.0	3.0 - 6.8 - 13.2	2.0 - 4.6 - 9.1
	3.56	17.9	10.3	516	16	5.0 - 6.1 - 8.6	4.1 - 9.0 - 14.3	2.8 - 6.3 - 9.8
	4.06	23.4	13.5	590	24	5.3 - 6.5 - 9.2	5.4 - 10.3 - 15.3	3.6 - 7.3 - 10.5
	4.57	29.6	17.1	664	31	5.7 - 6.9 - 9.8	6.8 - 11.5 - 16.2	4.6 - 7.9 - 11.1
5.08	36.6	21.1	737	38	6.0 - 7.3 - 10.3	8.4 - 12.1 - 17.1	5.7 - 8.3 - 11.7	
457 x 457	1.02	1.5	0.8	212	-	1.0 - 2.2 - 5.5	0.4 - 0.9 - 3.6	0.3 - 0.6 - 2.5
	2.03	5.9	3.4	425	-	3.7 - 5.5 - 7.8	1.6 - 3.6 - 12.3	1.1 - 2.5 - 8.7
	3.05	13.2	7.6	637	-	5.5 - 6.8 - 9.6	3.6 - 8.1 - 15.9	2.5 - 5.5 - 10.9
	3.56	17.9	10.3	743	18	6.0 - 7.3 - 10.4	4.9 - 10.8 - 17.2	3.3 - 7.5 - 11.8
	4.06	23.4	13.5	850	26	6.4 - 7.8 - 11.1	6.4 - 12.3 - 18.4	4.4 - 8.7 - 12.6
	4.57	29.6	17.1	956	33	6.8 - 8.3 - 11.8	8.1 - 13.8 - 19.5	5.5 - 9.5 - 13.4
5.08	36.6	21.1	1062	39	7.2 - 8.8 - 12.4	10.0 - 14.5 - 20.5	6.8 - 10.0 - 14.1	

METRIC DATA: 5SH/CAD, 24"x24" PANEL (DAMPER CLOSED)

Neck Dim	Neck Vel	Total Pres	Static Pres	Total Flow	NC	Horizontal Throw
mm	m/s	Pa	Pa	L/s		m
381 x 381	1.02	3.9	3.2	147	-	0.8 - 1.8 - 4.6
	1.52	8.7	7.3	221	-	1.8 - 3.5 - 5.7
	2.03	15.4	12.9	295	-	3.1 - 4.6 - 6.5
	2.54	24.1	20.2	369	-	3.9 - 5.2 - 7.3
	3.05	34.7	29.1	442	17	4.6 - 5.7 - 8.0
	3.56	47.2	39.6	516	29	5.0 - 6.1 - 8.6
4.06	61.7	51.8	590	39	5.3 - 6.5 - 9.2	
457 x 457	1.02	3.9	3.2	212	-	1.0 - 2.2 - 5.5
	1.52	8.7	7.3	319	-	2.2 - 4.2 - 6.8
	2.03	15.4	12.9	425	-	3.7 - 5.5 - 7.8
	2.54	24.1	20.2	531	-	4.7 - 6.2 - 8.8
	3.05	34.7	29.1	637	19	5.5 - 6.8 - 9.6
	3.56	47.2	39.6	743	31	6.0 - 7.3 - 10.4
4.06	61.7	51.8	850	41	6.4 - 7.8 - 11.1	

NOTES: Throw values are given for isothermal conditions. Vertical throw values are given for temperature differences shown. Throw values are given for terminal velocities of 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. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70. See Krueger's selection software for performance data not shown, including octave band data.