



1400, 1400FR, 51400, M1400 & M51400
 These supply diffusers feature a round neck and four cones.



1400A & 51400A
 These supply diffusers feature a round neck, four cones, and adjustable pattern controllers.



1450, 51450, M1450, & M51450
 These supply diffusers feature a round neck and three cones.



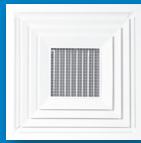
1450A & 51450A
 These supply diffusers feature a round neck, three cones, and adjustable pattern controllers.



SH, 5SH, SHFR, MSH, SHV, 5SHV, SHR, 5SHR, SHR, 5SHRV, SHFB, & 5SHFB
 These supply diffusers feature a square neck, fixed louvered blades (1-way to 4-way), and removable core.



SHPC, 5SHPC, SHPCR, & 5SHPCR
 These supply diffusers feature a square neck, fixed louvered blades (1-way to 4-way), removable core, and adjustable pattern controllers.



5SH/CAD & 5SHR/CAD
 These supply diffusers feature fixed louvered blades with a center downblow.



SHRPLQ
 This supply diffuser features fixed louvered blades (1, 2, or 3 slots) with center plaque faceplate.



7000
 This combination supply/return diffuser features fixed louvered blades with removable egg-crate center frame.

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SHPCR face view with horizontal setting (above) and vertical setting (right).

Introduction: SHPCR, 5SHPCR

The SHPCR/5SHPCR series square diffusers with round necks are available in various sizes and discharge air patterns to meet engineering requirements for capacity and directional throw in addition to a variety of frame styles to meet architectural requirements of today's ceilings. They feature a 1/4" horizontal lip on all sides of the louvered core, resulting in a tight horizontal pattern at the ceiling and a higher discharge velocity at the face. This creates a high induction region just below the face of the diffuser, which improves room air mixing. Additionally, these diffusers have manually adjustable pattern controllers mounted between the core and frame to provide vertical discharge when required. Because they have higher discharge face velocities, this series is an excellent choice for variable air volume systems with above normal temperature differentials. Also, the pattern controllers make them a great choice for use in high ceiling applications with ceiling heights ranging from 10 - 20 feet. At typical flow rates, isothermal throws of 18 - 30 feet make them ideal for mounting centrally in many spaces with high load requirements, while providing high mixing rates in the space.

MODELS

- SHPCR - Steel Louvered Diffuser
- 5SHPCR - Aluminum Louvered Diffuser

FEATURES

- Round duct connections.
- Adjustable pattern controllers for vertical throw.
- Core is removable from face of diffuser.
- Maintains a horizontal discharge air pattern from maximum to minimum CFM.
- Excellent choice for VAV applications with high loads.
- Excellent choice for high ceiling applications.

PANEL SIZES

- 12"x12"
- 24"x24"

ACCESSORIES

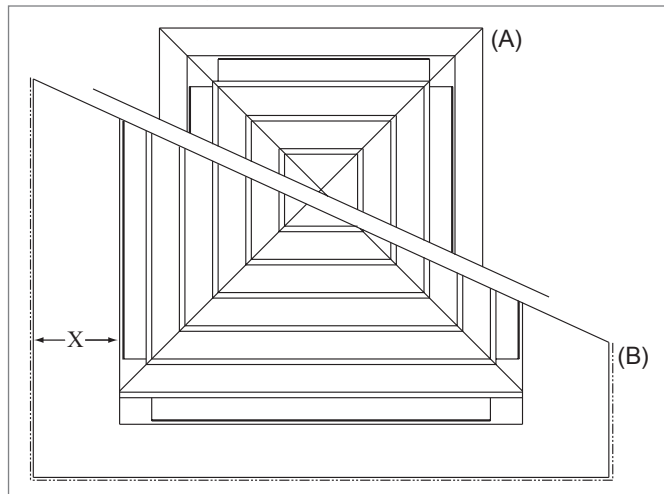
- Optional straightening grids.
- Optional round damper.

FINISHES

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

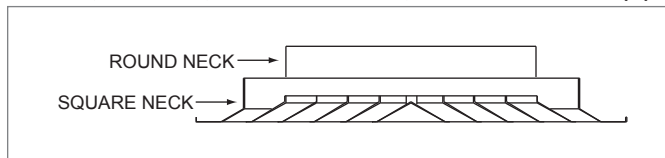
SHPCR, 5SHPCR Dimensional Information

SHPCR, 5SHPCR, FACE VIEW

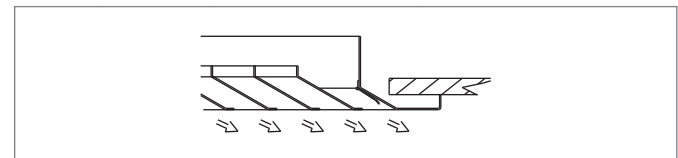


NOTE: Dimension 'X' will vary with neck sizes for Frames 23, 24, 27, and 98.

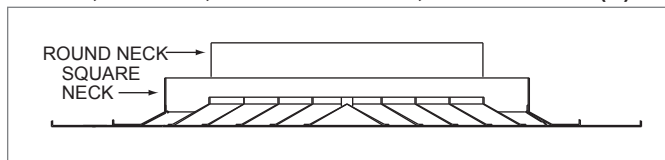
SHPCR, 5SHPCR, CROSS SECTION, SURFACE MOUNT (A)



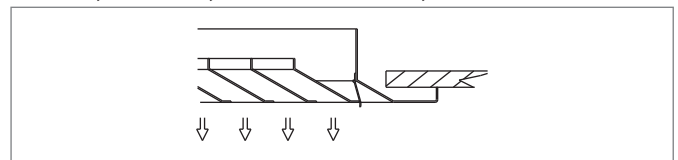
SHPCR, 5SHPCR, CROSS SECTION, HORIZONTAL



SHPCR, 5SHPCR, CROSS SECTION, LAY-IN T-BAR (B)

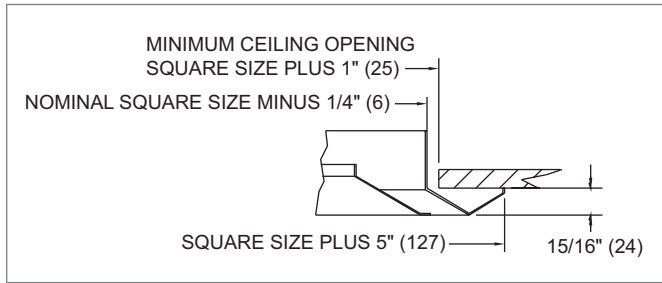


SHPCR, 5SHPCR, CROSS SECTION, VERTICAL

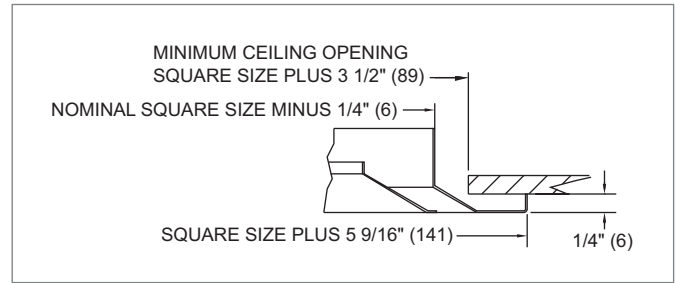


SHPCR, 5SHPCR Frame Styles

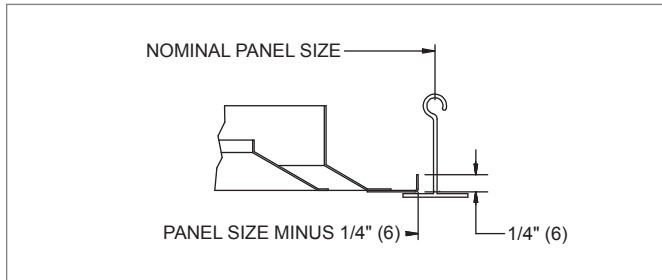
SHPCR, 5SHPCR, FRAME 21, SURFACE MOUNT, BEVELED



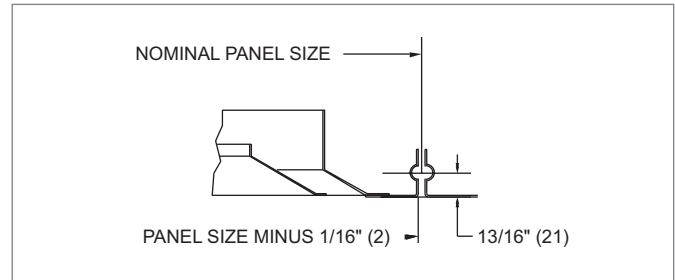
SHPCR, 5SHPCR, FRAME 22, SURFACE MOUNT, FLAT



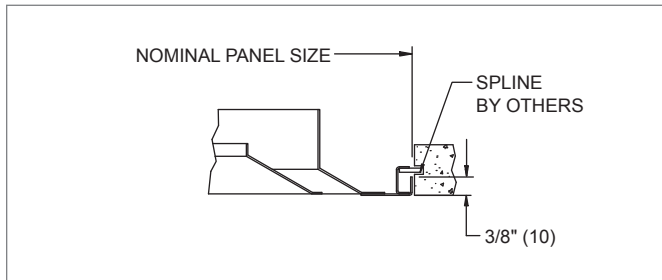
SHPCR, 5SHPCR, FRAME 23, LAY-IN T-BAR



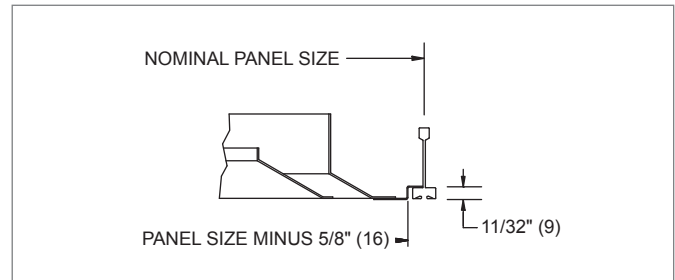
SHPCR, 5SHPCR, FRAME 24, SNAP-IN T-BAR



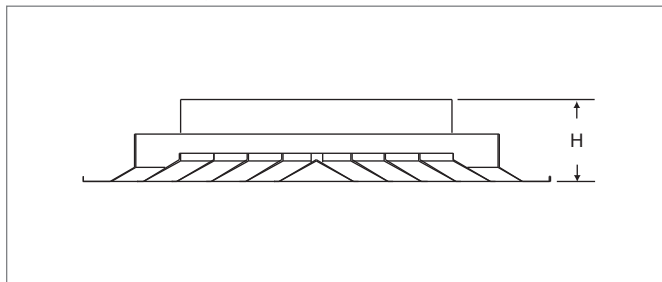
SHPCR, 5SHPCR, FRAME 27, SPLINE



SHPCR, 5SHPCR, FRAME 98, NARROW-T



SHPCR, 5SHPCR, CROSS SECTION, OVERALL HEIGHT



See page B1-38, "Snap-in Core Instructions" for removal of the core.

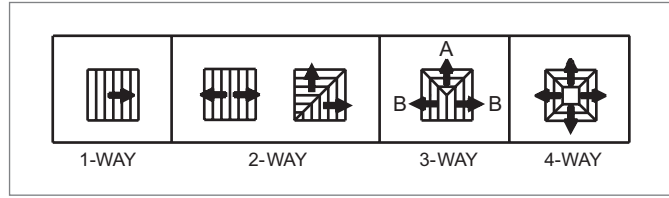
SHPCR, 5SHPCR, AVAILABLE NECK SIZES

Round Inlet	H	Panel Size	Nominal Square
6	3 1/8" (79)	12"x12" (305x305)	6" (152)
6	3 1/8" (79)	24"x24" (610x610)	6" (152)
			9" (229)
			12" (305)
			15" (381)
8	3 3/8" (86)	24"x24" (610x610)	18" (457)
			9" (229)
			12" (305)
			15" (381)
10	3 3/8" (86)	24"x24" (610x610)	18" (457)
			12" (305)
			15" (381)
			18" (457)
12	3 3/8" (86)	24"x24" (610x610)	18" (457)
			12" (305)
			15" (381)
14	3 3/8" (86)	24"x24" (610x610)	15" (381)
			18" (457)
16	3 3/8" (86)	24"x24" (610x610)	18" (457)

NOTE: Dimensions in parentheses are mm.

SHPCR, 5SHPCR Discharge Air Patterns

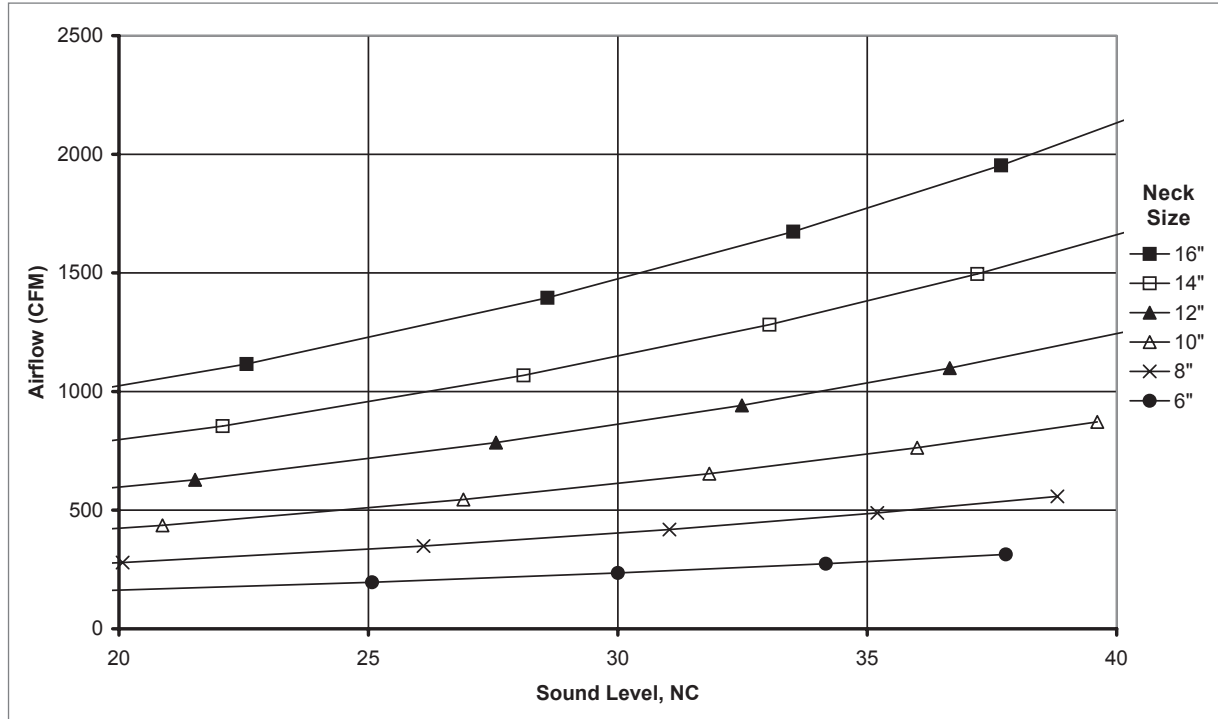
SHPCR, 5SHPCR, DISCHARGE AIR PATTERNS (FACE VIEW)



NOTE: 'A' & 'B' notations correspond to performance data.

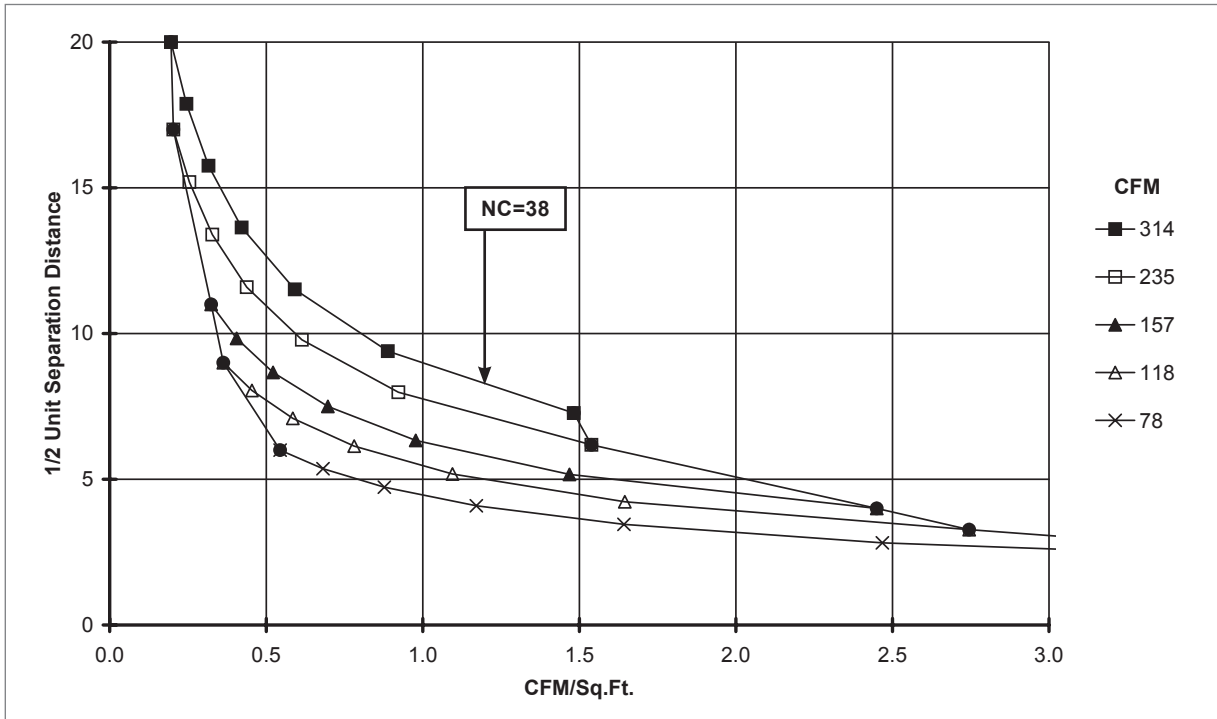
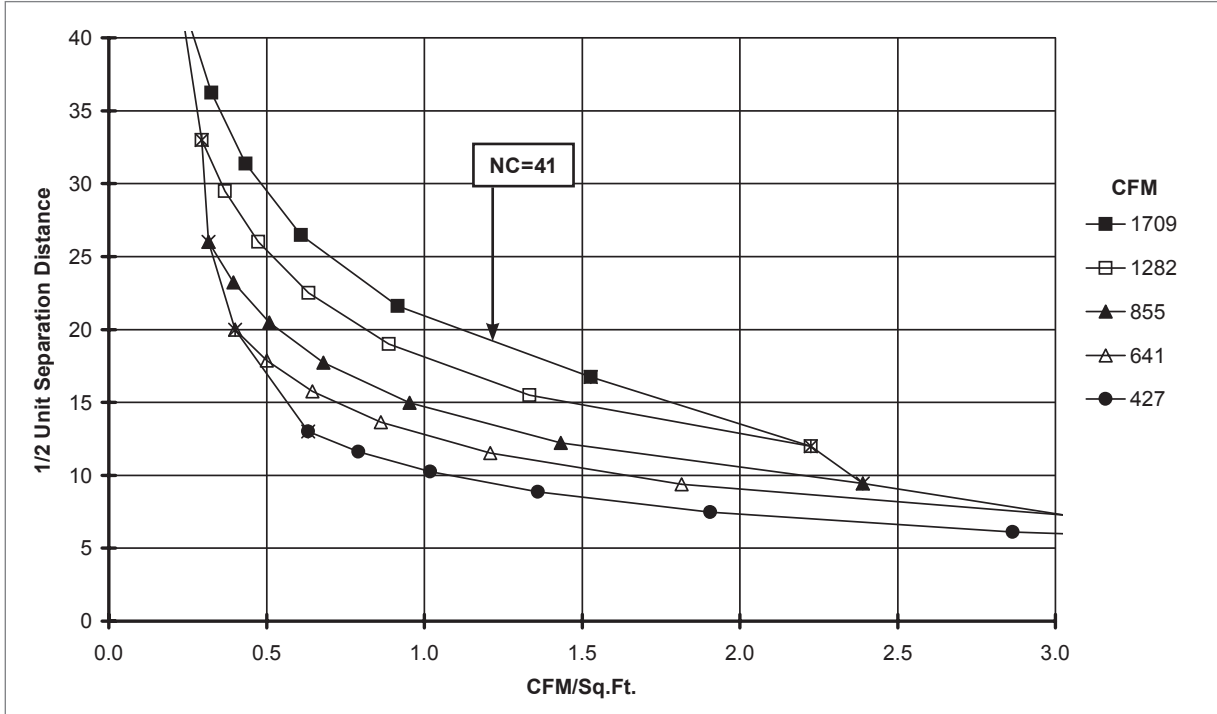
SHPCR, 5SHPCR Reference Chart

AIRFLOW VS. NC LEVEL: SHPCR, 5SHPCR (NO DAMPER)



LOUVERED FACE DIFFUSERS

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SHPCR, 5SHPCR Reference Charts: Horizontal Throw
DIFFUSER SPACING FOR 80% ADPI: SHPCR, 5SHPCR, 18"x18" TO 6" ROUND INLET, 4-WAY (NO DAMPER)

DIFFUSER SPACING FOR 80% ADPI: SHPCR, 5SHPCR, 18"x18" TO 14" ROUND INLET, 4-WAY (NO DAMPER)


NOTES: Charts are at 20 BTUH/ft² loads. See the Engineering section of this catalog for instructions on how to read these charts and additional ADPI information.

SHPCR, 5SHPCR Performance Data: Horizontal Throw

IP DATA: SHPCR, 5SHPCR (NO DAMPER)

Neck Dim	Neck Vel	Total Pres	Static Pres	Total Flow	NC	Discharge Air Pattern						
						1-Way Throw	2-Way Throw	3 - Side A		3 - Side B		4-Way Throw
								Flow	Throw	Flow	Throw	
in.	FPM	"WG	"WG	CFM		ft	ft	CFM	ft	CFM	ft	ft
6" x 6" Round	400	0.036	0.026	78	-	5 - 8 - 16	3 - 5 - 10	20	2 - 3 - 6	29	2 - 3 - 6	2 - 3 - 6
	600	0.081	0.059	118	14	8 - 12 - 21	5 - 7 - 15	29	3 - 4 - 9	44	3 - 5 - 10	3 - 4 - 9
	800	0.145	0.105	157	22	11 - 16 - 25	7 - 10 - 17	39	4 - 6 - 11	59	4 - 6 - 13	4 - 6 - 11
	1000	0.226	0.164	196	28	13 - 20 - 28	8 - 12 - 19	49	5 - 7 - 14	74	5 - 8 - 16	5 - 7 - 14
	1200	0.326	0.236	235	33	16 - 21 - 30	10 - 15 - 21	59	6 - 9 - 17	88	6 - 10 - 19	6 - 9 - 17
	1400	0.443	0.321	275	37	19 - 23 - 33	12 - 16 - 22	69	7 - 10 - 20	103	7 - 11 - 22	7 - 10 - 20
1600	0.579	0.419	314	41	20 - 25 - 35	13 - 17 - 24	78	8 - 11 - 23	118	9 - 13 - 25	8 - 11 - 23	
9" x 9" Round	400	0.036	0.026	78	-	5 - 8 - 16	3 - 5 - 10	20	2 - 3 - 6	29	2 - 3 - 6	2 - 3 - 6
	600	0.081	0.059	118	14	8 - 12 - 21	5 - 7 - 15	29	3 - 4 - 9	44	3 - 5 - 10	3 - 4 - 9
	800	0.145	0.105	157	22	11 - 16 - 25	7 - 10 - 17	39	4 - 6 - 11	59	4 - 6 - 13	4 - 6 - 11
	1000	0.226	0.164	196	28	13 - 20 - 28	8 - 12 - 19	49	5 - 7 - 14	74	5 - 8 - 16	5 - 7 - 14
	1200	0.326	0.236	235	33	16 - 21 - 30	10 - 15 - 21	59	6 - 9 - 17	88	6 - 10 - 19	6 - 9 - 17
	1400	0.443	0.321	275	37	19 - 23 - 33	12 - 16 - 22	69	7 - 10 - 20	103	7 - 11 - 22	7 - 10 - 20
1600	0.579	0.419	314	41	20 - 25 - 35	13 - 17 - 24	78	8 - 11 - 23	118	9 - 13 - 25	8 - 11 - 23	
9" x 8" Round	400	0.035	0.025	140	-	7 - 11 - 21	4 - 7 - 13	35	3 - 4 - 8	52	3 - 4 - 9	3 - 4 - 8
	600	0.080	0.057	209	15	11 - 16 - 29	7 - 10 - 19	52	4 - 6 - 11	78	4 - 6 - 13	4 - 6 - 11
	800	0.142	0.102	279	23	14 - 21 - 33	9 - 13 - 22	70	5 - 8 - 15	105	6 - 9 - 17	5 - 8 - 15
	1000	0.222	0.159	349	29	18 - 26 - 37	11 - 17 - 25	87	6 - 9 - 19	131	7 - 11 - 21	6 - 9 - 19
	1200	0.319	0.229	419	34	21 - 29 - 41	13 - 19 - 27	105	8 - 11 - 23	157	9 - 13 - 26	8 - 11 - 23
	1400	0.434	0.312	488	38	25 - 31 - 44	15 - 21 - 30	122	9 - 13 - 26	183	10 - 15 - 30	9 - 13 - 26
1600	0.567	0.407	558	42	27 - 33 - 47	18 - 22 - 32	140	10 - 15 - 30	209	11 - 17 - 33	10 - 15 - 30	
12" x 12" Round	400	0.035	0.025	140	-	7 - 11 - 21	4 - 7 - 13	35	3 - 4 - 8	52	3 - 4 - 9	3 - 4 - 8
	600	0.080	0.057	209	15	11 - 16 - 29	7 - 10 - 19	52	4 - 6 - 11	78	4 - 6 - 13	4 - 6 - 11
	800	0.142	0.102	279	23	14 - 21 - 33	9 - 13 - 22	70	5 - 8 - 15	105	6 - 9 - 17	5 - 8 - 15
	1000	0.222	0.159	349	29	18 - 26 - 37	11 - 17 - 25	87	6 - 9 - 19	131	7 - 11 - 21	6 - 9 - 19
	1200	0.319	0.229	419	34	21 - 29 - 41	13 - 19 - 27	105	8 - 11 - 23	157	9 - 13 - 26	8 - 11 - 23
	1400	0.434	0.312	488	38	25 - 31 - 44	15 - 21 - 30	122	9 - 13 - 26	183	10 - 15 - 30	9 - 13 - 26
1500	0.498	0.358	523	40	26 - 32 - 45	17 - 22 - 31	131	9 - 14 - 28	196	11 - 16 - 32	9 - 14 - 28	
12" x 10" Round	400	0.034	0.025	218	-	9 - 13 - 27	6 - 8 - 17	55	3 - 5 - 9	82	4 - 5 - 11	3 - 5 - 9
	600	0.078	0.055	327	16	13 - 20 - 36	8 - 12 - 24	82	5 - 7 - 14	123	5 - 8 - 16	5 - 7 - 14
	800	0.138	0.098	436	24	18 - 27 - 41	11 - 17 - 28	109	6 - 9 - 19	164	7 - 11 - 21	6 - 9 - 19
	900	0.175	0.124	491	27	20 - 30 - 44	12 - 19 - 30	123	7 - 11 - 21	184	8 - 12 - 24	7 - 11 - 21
	1000	0.216	0.153	545	30	22 - 33 - 46	14 - 21 - 31	136	8 - 12 - 24	204	9 - 13 - 27	8 - 12 - 24
	1200	0.310	0.221	654	35	27 - 36 - 51	17 - 24 - 34	164	9 - 14 - 28	245	11 - 16 - 32	9 - 14 - 28
1400	0.422	0.300	763	39	31 - 39 - 55	19 - 26 - 37	191	11 - 17 - 33	286	12 - 19 - 37	11 - 17 - 33	
12" x 12" Round	400	0.033	0.023	314	-	11 - 16 - 32	7 - 10 - 20	78	4 - 6 - 11	118	4 - 6 - 13	4 - 6 - 11
	600	0.075	0.053	471	17	16 - 24 - 43	10 - 15 - 29	118	6 - 9 - 17	177	6 - 10 - 19	6 - 9 - 17
	800	0.133	0.093	628	25	21 - 32 - 50	13 - 20 - 34	157	8 - 11 - 23	235	9 - 13 - 26	8 - 11 - 23
	900	0.169	0.118	706	28	24 - 36 - 53	15 - 22 - 36	177	9 - 13 - 26	265	10 - 14 - 29	9 - 13 - 26
	1000	0.208	0.146	785	31	27 - 39 - 55	17 - 25 - 38	196	9 - 14 - 28	294	11 - 16 - 32	9 - 14 - 28
	1200	0.300	0.210	942	35	32 - 43 - 61	20 - 29 - 41	235	11 - 17 - 34	353	13 - 19 - 38	11 - 17 - 34
1400	0.408	0.286	1099	40	37 - 46 - 66	23 - 31 - 45	275	13 - 20 - 40	412	15 - 22 - 45	13 - 20 - 40	
15" x 15" Round	400	0.033	0.023	314	-	11 - 16 - 32	7 - 10 - 20	78	4 - 6 - 11	118	4 - 6 - 13	4 - 6 - 11
	600	0.075	0.053	471	17	16 - 24 - 43	10 - 15 - 29	118	6 - 9 - 17	177	6 - 10 - 19	6 - 9 - 17
	800	0.133	0.093	628	25	21 - 32 - 50	13 - 20 - 34	157	8 - 11 - 23	235	9 - 13 - 26	8 - 11 - 23
	900	0.169	0.118	706	28	24 - 36 - 53	15 - 22 - 36	177	9 - 13 - 26	265	10 - 14 - 29	9 - 13 - 26
	1000	0.208	0.146	785	31	27 - 39 - 55	17 - 25 - 38	196	9 - 14 - 28	294	11 - 16 - 32	9 - 14 - 28
	1200	0.300	0.210	942	35	32 - 43 - 61	20 - 29 - 41	235	11 - 17 - 34	353	13 - 19 - 38	11 - 17 - 34
1400	0.408	0.286	1099	40	37 - 46 - 66	23 - 31 - 45	275	13 - 20 - 40	412	15 - 22 - 45	13 - 20 - 40	

NOTES: Throw values are given for isothermal conditions and 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. 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 B1-87 for 'Side A' and 'Side B' detail. See Krueger's selection software for performance data not shown, including octave band data.

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SHPCR, 5SHPCR Performance Data: Horizontal Throw
IP DATA: SHPCR, 5SHPCR (NO DAMPER)

Neck Dim	Neck Vel	Total Pres	Static Pres	Total Flow	NC	Discharge Air Pattern						
						1-Way Throw	2-Way Throw	3 - Side A		3 - Side B		4-Way Throw
								Flow	Throw	Flow	Throw	
in.	FPM	"WG	"WG	CFM	ft	ft	CFM	ft	CFM	ft	ft	
15" x 15"	400	0.032	0.022	427	-	12 - 19 - 37	8 - 12 - 23	107	4 - 7 - 13	160	5 - 7 - 15	4 - 7 - 13
	600	0.072	0.049	641	17	19 - 28 - 50	12 - 17 - 34	160	7 - 10 - 20	240	7 - 11 - 22	7 - 10 - 20
14" Round	800	0.128	0.088	855	25	25 - 37 - 58	15 - 23 - 39	214	9 - 13 - 26	320	10 - 15 - 30	9 - 13 - 26
	900	0.162	0.111	961	28	28 - 42 - 61	17 - 26 - 42	240	10 - 15 - 30	361	11 - 17 - 33	10 - 15 - 30
14" Round	1000	0.200	0.137	1068	31	31 - 46 - 65	19 - 29 - 44	267	11 - 17 - 33	401	12 - 19 - 37	11 - 17 - 33
	1200	0.287	0.198	1282	36	37 - 50 - 71	23 - 34 - 48	320	13 - 20 - 40	481	15 - 22 - 45	13 - 20 - 40
	1400	0.391	0.269	1495	40	43 - 54 - 77	27 - 37 - 52	374	15 - 23 - 46	561	17 - 26 - 52	15 - 23 - 46
18" x 18"	400	0.036	0.026	78	-	5 - 8 - 16	3 - 5 - 10	20	2 - 3 - 6	29	2 - 3 - 6	2 - 3 - 6
	600	0.081	0.059	118	14	8 - 12 - 21	5 - 7 - 15	29	3 - 4 - 9	44	3 - 5 - 10	3 - 4 - 9
6" Round	800	0.145	0.105	157	22	11 - 16 - 25	7 - 10 - 17	39	4 - 6 - 11	59	4 - 6 - 13	4 - 6 - 11
	1000	0.226	0.164	196	28	13 - 20 - 28	8 - 12 - 19	49	5 - 7 - 14	74	5 - 8 - 16	5 - 7 - 14
	1200	0.326	0.236	235	33	16 - 21 - 30	10 - 15 - 21	59	6 - 9 - 17	88	6 - 10 - 19	6 - 9 - 17
8" Round	1300	0.382	0.277	255	35	17 - 22 - 32	11 - 15 - 21	64	6 - 9 - 18	96	7 - 10 - 21	6 - 9 - 18
	1400	0.443	0.321	275	37	19 - 23 - 33	12 - 16 - 22	69	7 - 10 - 20	103	7 - 11 - 22	7 - 10 - 20
18" x 18"	400	0.036	0.026	140	-	7 - 11 - 21	4 - 7 - 13	35	3 - 4 - 8	52	3 - 4 - 9	3 - 4 - 8
	600	0.081	0.059	209	15	11 - 16 - 29	7 - 10 - 19	52	4 - 6 - 11	78	4 - 6 - 13	4 - 6 - 11
8" Round	800	0.145	0.105	279	23	14 - 21 - 33	9 - 13 - 22	70	5 - 8 - 15	105	6 - 9 - 17	5 - 8 - 15
	1000	0.226	0.164	349	29	18 - 26 - 37	11 - 17 - 25	87	6 - 9 - 19	131	7 - 11 - 21	6 - 9 - 19
	1200	0.326	0.236	419	34	21 - 29 - 41	13 - 19 - 27	105	8 - 11 - 23	157	9 - 13 - 26	8 - 11 - 23
10" Round	1400	0.443	0.321	488	38	25 - 31 - 44	15 - 21 - 30	122	9 - 13 - 26	183	10 - 15 - 30	9 - 13 - 26
	1500	0.509	0.369	523	40	26 - 32 - 45	17 - 22 - 31	131	9 - 14 - 28	196	11 - 16 - 32	9 - 14 - 28
18" x 18"	400	0.035	0.025	218	-	9 - 13 - 27	6 - 8 - 17	55	3 - 5 - 9	82	4 - 5 - 11	3 - 5 - 9
	600	0.080	0.057	327	16	13 - 20 - 36	8 - 12 - 24	82	5 - 7 - 14	123	5 - 8 - 16	5 - 7 - 14
10" Round	800	0.142	0.102	436	24	18 - 27 - 41	11 - 17 - 28	109	6 - 9 - 19	164	7 - 11 - 21	6 - 9 - 19
	900	0.179	0.129	491	27	20 - 30 - 44	12 - 19 - 30	123	7 - 11 - 21	184	8 - 12 - 24	7 - 11 - 21
	1000	0.222	0.159	545	30	22 - 33 - 46	14 - 21 - 31	136	8 - 12 - 24	204	9 - 13 - 27	8 - 12 - 24
12" Round	1200	0.319	0.229	654	35	27 - 36 - 51	17 - 24 - 34	164	9 - 14 - 28	245	11 - 16 - 32	9 - 14 - 28
	1400	0.434	0.312	763	39	31 - 39 - 55	19 - 26 - 37	191	11 - 17 - 33	286	12 - 19 - 37	11 - 17 - 33
18" x 18"	400	0.035	0.025	314	-	11 - 16 - 32	7 - 10 - 20	78	4 - 6 - 11	118	4 - 6 - 13	4 - 6 - 11
	600	0.080	0.057	471	17	16 - 24 - 43	10 - 15 - 29	118	6 - 9 - 17	177	6 - 10 - 19	6 - 9 - 17
12" Round	800	0.142	0.102	628	25	21 - 32 - 50	13 - 20 - 34	157	8 - 11 - 23	235	9 - 13 - 26	8 - 11 - 23
	900	0.179	0.129	706	28	24 - 36 - 53	15 - 22 - 36	177	9 - 13 - 26	265	10 - 14 - 29	9 - 13 - 26
	1000	0.222	0.159	785	31	27 - 39 - 55	17 - 25 - 38	196	9 - 14 - 28	294	11 - 16 - 32	9 - 14 - 28
14" Round	1200	0.319	0.229	942	35	32 - 43 - 61	20 - 29 - 41	235	11 - 17 - 34	353	13 - 19 - 38	11 - 17 - 34
	1400	0.434	0.312	1099	40	37 - 46 - 66	23 - 31 - 45	275	13 - 20 - 40	412	15 - 22 - 45	13 - 20 - 40
18" x 18"	400	0.034	0.025	427	-	12 - 19 - 37	8 - 12 - 23	107	4 - 7 - 13	160	5 - 7 - 15	4 - 7 - 13
	600	0.078	0.055	641	17	19 - 28 - 50	12 - 17 - 34	160	7 - 10 - 20	240	7 - 11 - 22	7 - 10 - 20
14" Round	800	0.138	0.098	855	25	25 - 37 - 58	15 - 23 - 39	214	9 - 13 - 26	320	10 - 15 - 30	9 - 13 - 26
	900	0.175	0.124	961	28	28 - 42 - 61	17 - 26 - 42	240	10 - 15 - 30	361	11 - 17 - 33	10 - 15 - 30
	1000	0.216	0.153	1068	31	31 - 46 - 65	19 - 29 - 44	267	11 - 17 - 33	401	12 - 19 - 37	11 - 17 - 33
16" Round	1200	0.310	0.221	1282	36	37 - 50 - 71	23 - 34 - 48	320	13 - 20 - 40	481	15 - 22 - 45	13 - 20 - 40
	1400	0.422	0.300	1495	40	43 - 54 - 77	27 - 37 - 52	374	15 - 23 - 46	561	17 - 26 - 52	15 - 23 - 46
18" x 18"	400	0.033	0.023	558	-	14 - 21 - 43	9 - 13 - 26	140	5 - 8 - 15	209	6 - 9 - 17	5 - 8 - 15
	600	0.075	0.053	837	18	21 - 32 - 57	13 - 20 - 39	209	8 - 11 - 23	314	9 - 13 - 26	8 - 11 - 23
16" Round	800	0.133	0.093	1116	26	28 - 43 - 66	18 - 26 - 45	279	10 - 15 - 30	419	11 - 17 - 34	10 - 15 - 30
	900	0.169	0.118	1256	29	32 - 48 - 70	20 - 30 - 48	314	11 - 17 - 34	471	13 - 19 - 38	11 - 17 - 34
	1000	0.208	0.146	1395	32	35 - 52 - 74	22 - 33 - 50	349	13 - 19 - 38	523	14 - 21 - 43	13 - 19 - 38
18" Round	1200	0.300	0.210	1674	37	43 - 57 - 81	26 - 39 - 55	419	15 - 23 - 45	628	17 - 26 - 51	15 - 23 - 45
	1400	0.408	0.286	1953	41	50 - 62 - 88	31 - 42 - 59	488	18 - 26 - 53	732	20 - 30 - 60	18 - 26 - 53

NOTES: Throw values are given for isothermal conditions and 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. 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 B1-87 for 'Side A' and 'Side B' detail. See Krueger's selection software for performance data not shown, including octave band data.

SHPCR, 5SHPCR Performance Data: Vertical Throw

IP DATA: SHPCR, 5SHPCR (NO DAMPER)

Neck Dim	Neck Vel	Total Pres	Static Pres	Total Flow	NC	Discharge Air Pattern			
						Vert Δ + 40°F	Vert Δ + 20°F	Vert Δ + 0°F	Vert Δ - 20°F
						Throw	Throw	Throw	Throw
in.	FPM	"WG	"WG	CFM		ft	ft	ft	ft
6" x 6" Round	400	0.056	0.046	78	-	1 - 2 - 3	2 - 3 - 6	2 - 4 - 7	3 - 5 - 10
	600	0.126	0.104	118	18	2 - 3 - 5	3 - 4 - 9	4 - 6 - 11	5 - 7 - 14
	800	0.224	0.184	157	26	2 - 3 - 7	4 - 6 - 11	5 - 7 - 15	6 - 10 - 19
	1000	0.350	0.288	196	32	3 - 4 - 9	5 - 7 - 14	6 - 9 - 18	8 - 12 - 24
	1100	0.423	0.348	216	35	3 - 5 - 9	5 - 8 - 16	7 - 10 - 20	9 - 13 - 27
	1200	0.504	0.414	235	37	3 - 5 - 10	6 - 9 - 17	7 - 11 - 22	10 - 14 - 29
9" x 9" Round	400	0.056	0.046	78	-	1 - 2 - 3	2 - 3 - 6	2 - 4 - 7	3 - 5 - 10
	600	0.126	0.104	118	18	2 - 3 - 5	3 - 4 - 9	4 - 6 - 11	5 - 7 - 14
	800	0.224	0.184	157	26	2 - 3 - 7	4 - 6 - 11	5 - 7 - 15	6 - 10 - 19
	1000	0.350	0.288	196	32	3 - 4 - 9	5 - 7 - 14	6 - 9 - 18	8 - 12 - 24
	1100	0.423	0.348	216	35	3 - 5 - 9	5 - 8 - 16	7 - 10 - 20	9 - 13 - 27
	1200	0.504	0.414	235	37	3 - 5 - 10	6 - 9 - 17	7 - 11 - 22	10 - 14 - 29
9" x 8" Round	400	0.055	0.045	140	-	2 - 2 - 5	3 - 4 - 8	3 - 5 - 10	4 - 6 - 13
	600	0.124	0.102	209	19	2 - 3 - 7	4 - 6 - 11	5 - 7 - 15	6 - 10 - 19
	800	0.221	0.181	279	27	3 - 5 - 9	5 - 8 - 15	7 - 10 - 20	9 - 13 - 26
	1000	0.345	0.283	349	33	4 - 6 - 11	6 - 9 - 19	8 - 12 - 25	11 - 16 - 32
	1100	0.418	0.342	384	36	4 - 6 - 12	7 - 10 - 21	9 - 14 - 27	12 - 18 - 35
	1200	0.497	0.407	419	38	5 - 7 - 14	8 - 11 - 23	10 - 15 - 29	13 - 19 - 39
12" x 12" Round	400	0.055	0.045	140	-	2 - 2 - 5	3 - 4 - 8	3 - 5 - 10	4 - 6 - 13
	600	0.124	0.102	209	19	2 - 3 - 7	4 - 6 - 11	5 - 7 - 15	6 - 10 - 19
	800	0.221	0.181	279	27	3 - 5 - 9	5 - 8 - 15	7 - 10 - 20	9 - 13 - 26
	1000	0.345	0.283	349	33	4 - 6 - 11	6 - 9 - 19	8 - 12 - 25	11 - 16 - 32
	1100	0.418	0.342	384	36	4 - 6 - 12	7 - 10 - 21	9 - 14 - 27	12 - 18 - 35
	1200	0.497	0.407	419	38	5 - 7 - 14	8 - 11 - 23	10 - 15 - 29	13 - 19 - 39
12" x 10" Round	400	0.054	0.044	218	-	2 - 3 - 6	3 - 5 - 9	4 - 6 - 12	5 - 8 - 16
	600	0.122	0.100	327	20	3 - 4 - 9	5 - 7 - 14	6 - 9 - 18	8 - 12 - 24
	800	0.217	0.177	436	28	4 - 6 - 11	6 - 9 - 19	8 - 12 - 25	11 - 16 - 32
	1000	0.339	0.277	545	34	5 - 7 - 14	8 - 12 - 24	10 - 15 - 31	13 - 20 - 40
	1100	0.411	0.335	600	36	5 - 8 - 16	9 - 13 - 26	11 - 17 - 34	15 - 22 - 44
	1200	0.489	0.399	654	39	6 - 9 - 17	9 - 14 - 28	12 - 18 - 37	16 - 24 - 48
12" x 12" Round	400	0.053	0.043	314	-	2 - 3 - 7	4 - 6 - 11	5 - 7 - 15	6 - 10 - 19
	600	0.120	0.097	471	21	3 - 5 - 10	6 - 9 - 17	7 - 11 - 22	10 - 14 - 29
	800	0.212	0.173	628	29	5 - 7 - 14	8 - 11 - 23	10 - 15 - 29	13 - 19 - 39
	1000	0.332	0.270	785	35	6 - 9 - 17	9 - 14 - 28	12 - 18 - 37	16 - 24 - 48
	1100	0.402	0.326	863	37	6 - 9 - 19	10 - 16 - 31	14 - 20 - 41	18 - 27 - 53
	1200	0.478	0.388	942	39	7 - 10 - 20	11 - 17 - 34	15 - 22 - 44	19 - 29 - 58
15" x 12" Round	400	0.053	0.043	314	-	2 - 3 - 7	4 - 6 - 11	5 - 7 - 15	6 - 10 - 19
	600	0.120	0.097	471	21	3 - 5 - 10	6 - 9 - 17	7 - 11 - 22	10 - 14 - 29
	800	0.212	0.173	628	29	5 - 7 - 14	8 - 11 - 23	10 - 15 - 29	13 - 19 - 39
	1000	0.332	0.270	785	35	6 - 9 - 17	9 - 14 - 28	12 - 18 - 37	16 - 24 - 48
	1100	0.402	0.326	863	37	6 - 9 - 19	10 - 16 - 31	14 - 20 - 41	18 - 27 - 53
	1200	0.478	0.388	942	39	7 - 10 - 20	11 - 17 - 34	15 - 22 - 44	19 - 29 - 58

NOTES: Throw values are given for temperature differences shown and 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.

LOUVERED FACE DIFFUSERS

SHPCR - 5SHPCR

SHPCR, 5SHPCR Performance Data: Vertical Throw

IP DATA: SHPCR, 5SHPCR (NO DAMPER)

Neck Dim	Neck Vel	Total Pres	Static Pres	Total Flow	NC	Discharge Air Pattern			
						Vert Δ + 40°F	Vert Δ + 20°F	Vert Δ + 0°F	Vert Δ - 20°F
						Throw	Throw	Throw	Throw
in.	FPM	"WG	"WG	CFM		ft	ft	ft	ft
15" x 15"	400	0.052	0.042	427	10	3 - 4 - 8	4 - 7 - 13	6 - 9 - 17	7 - 11 - 22
	600	0.116	0.094	641	21	4 - 6 - 12	7 - 10 - 20	9 - 13 - 26	11 - 17 - 34
14" Round	800	0.207	0.167	855	29	5 - 8 - 16	9 - 13 - 26	11 - 17 - 34	15 - 22 - 45
	1000	0.323	0.261	1068	35	7 - 10 - 20	11 - 17 - 33	14 - 21 - 43	19 - 28 - 56
14" Round	1100	0.391	0.316	1175	38	7 - 11 - 22	12 - 18 - 36	16 - 24 - 47	21 - 31 - 62
	1200	0.466	0.376	1282	40	8 - 12 - 24	13 - 20 - 40	17 - 26 - 52	22 - 34 - 67
14" Round	1300	0.546	0.441	1389	42	9 - 13 - 26	14 - 21 - 43	19 - 28 - 56	24 - 37 - 73
	18" x 18"	400	0.056	0.046	78	-	1 - 2 - 3	2 - 3 - 6	2 - 4 - 7
18" x 18"	600	0.126	0.104	118	18	2 - 3 - 5	3 - 4 - 9	4 - 6 - 11	5 - 7 - 14
	800	0.224	0.184	157	26	2 - 3 - 7	4 - 6 - 11	5 - 7 - 15	6 - 10 - 19
6" Round	1000	0.350	0.288	196	32	3 - 4 - 9	5 - 7 - 14	6 - 9 - 18	8 - 12 - 24
	1200	0.504	0.414	235	37	3 - 5 - 10	6 - 9 - 17	7 - 11 - 22	10 - 14 - 29
6" Round	1300	0.591	0.486	255	39	4 - 6 - 11	6 - 9 - 18	8 - 12 - 24	10 - 16 - 31
	1400	0.686	0.564	275	41	4 - 6 - 12	7 - 10 - 20	9 - 13 - 26	11 - 17 - 34
18" x 18"	400	0.056	0.046	140	-	2 - 2 - 5	3 - 4 - 8	3 - 5 - 10	4 - 6 - 13
	600	0.126	0.104	209	19	2 - 3 - 7	4 - 6 - 11	5 - 7 - 15	6 - 10 - 19
18" x 18"	800	0.224	0.184	279	27	3 - 5 - 9	5 - 8 - 15	7 - 10 - 20	9 - 13 - 26
	1000	0.350	0.288	349	33	4 - 6 - 11	6 - 9 - 19	8 - 12 - 25	11 - 16 - 32
8" Round	1200	0.504	0.414	419	38	5 - 7 - 14	8 - 11 - 23	10 - 15 - 29	13 - 19 - 39
	1300	0.591	0.486	453	40	5 - 7 - 15	8 - 12 - 25	11 - 16 - 32	14 - 21 - 42
8" Round	1400	0.686	0.564	488	42	5 - 8 - 16	9 - 13 - 26	11 - 17 - 34	15 - 22 - 45
	18" x 18"	400	0.055	0.045	218	-	2 - 3 - 6	3 - 5 - 9	4 - 6 - 12
18" x 18"	600	0.124	0.102	327	20	3 - 4 - 9	5 - 7 - 14	6 - 9 - 18	8 - 12 - 24
	800	0.221	0.181	436	28	4 - 6 - 11	6 - 9 - 19	8 - 12 - 25	11 - 16 - 32
10" Round	1000	0.345	0.283	545	34	5 - 7 - 14	8 - 12 - 24	10 - 15 - 31	13 - 20 - 40
	1200	0.497	0.407	654	39	6 - 9 - 17	9 - 14 - 28	12 - 18 - 37	16 - 24 - 48
10" Round	1300	0.584	0.478	709	41	6 - 9 - 18	10 - 15 - 31	13 - 20 - 40	17 - 26 - 52
	1400	0.677	0.555	763	43	7 - 10 - 20	11 - 17 - 33	14 - 21 - 43	19 - 28 - 56
18" x 18"	400	0.055	0.045	314	-	2 - 3 - 7	4 - 6 - 11	5 - 7 - 15	6 - 10 - 19
	600	0.124	0.102	471	21	3 - 5 - 10	6 - 9 - 17	7 - 11 - 22	10 - 14 - 29
18" x 18"	800	0.221	0.181	628	29	5 - 7 - 14	8 - 11 - 23	10 - 15 - 29	13 - 19 - 39
	1000	0.345	0.283	785	35	6 - 9 - 17	9 - 14 - 28	12 - 18 - 37	16 - 24 - 48
12" Round	1100	0.418	0.342	863	37	6 - 9 - 19	10 - 16 - 31	14 - 20 - 41	18 - 27 - 53
	1200	0.497	0.407	942	39	7 - 10 - 20	11 - 17 - 34	15 - 22 - 44	19 - 29 - 58
12" Round	1300	0.584	0.478	1020	42	7 - 11 - 22	12 - 18 - 37	16 - 24 - 48	21 - 31 - 63
	18" x 18"	400	0.054	0.044	427	10	3 - 4 - 8	4 - 7 - 13	6 - 9 - 17
18" x 18"	600	0.122	0.100	641	21	4 - 6 - 12	7 - 10 - 20	9 - 13 - 26	11 - 17 - 34
	800	0.217	0.177	855	29	5 - 8 - 16	9 - 13 - 26	11 - 17 - 34	15 - 22 - 45
14" Round	1000	0.339	0.277	1068	35	7 - 10 - 20	11 - 17 - 33	14 - 21 - 43	19 - 28 - 56
	1100	0.411	0.335	1175	38	7 - 11 - 22	12 - 18 - 36	16 - 24 - 47	21 - 31 - 62
14" Round	1200	0.489	0.399	1282	40	8 - 12 - 24	13 - 20 - 40	17 - 26 - 52	22 - 34 - 67
	1300	0.573	0.468	1389	42	9 - 13 - 26	14 - 21 - 43	19 - 28 - 56	24 - 37 - 73
18" x 18"	400	0.053	0.043	558	11	3 - 5 - 9	5 - 8 - 15	7 - 10 - 20	9 - 13 - 26
	600	0.120	0.097	837	22	5 - 7 - 14	8 - 11 - 23	10 - 15 - 29	13 - 19 - 39
18" x 18"	800	0.212	0.173	1116	30	6 - 9 - 18	10 - 15 - 30	13 - 20 - 39	17 - 26 - 51
	1000	0.332	0.270	1395	36	8 - 11 - 23	13 - 19 - 38	16 - 25 - 49	21 - 32 - 64
16" Round	1100	0.402	0.326	1535	38	8 - 12 - 25	14 - 21 - 42	18 - 27 - 54	24 - 35 - 71
	1200	0.478	0.388	1674	41	9 - 14 - 27	15 - 23 - 45	20 - 29 - 59	26 - 39 - 77
16" Round	1300	0.561	0.456	1814	43	10 - 15 - 29	16 - 25 - 49	21 - 32 - 64	28 - 42 - 84

NOTES: Throw values are given for temperature differences shown and 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.

SHPCR, 5SHPCR Performance Data: Horizontal Throw

METRIC DATA: SHPCR, 5SHPCR (NO DAMPER)

Neck Dim	Neck Vel	Total Pres	Static Pres	Total Flow	NC	Discharge Air Pattern						
						1-Way Throw	2-Way Throw	3 - Side A		3 - Side B		4-Way Throw
								Flow	Throw	Flow	Throw	
mm	m/s	Pa	Pa	L/s		m	m	L/s	m	L/s	m	m
381 x	2.0	8.0	5.5	202	-	3.8 - 5.7 - 11.3	2.3 - 3.5 - 7.0	50	1.3 - 2.0 - 4.0	76	1.5 - 2.3 - 4.5	1.3 - 2.0 - 4.0
	3.0	17.9	12.3	302	17	5.7 - 8.5 - 15.2	3.5 - 5.3 - 10.3	76	2.0 - 3.0 - 6.0	113	2.3 - 3.4 - 6.8	2.0 - 3.0 - 6.0
381	4.1	31.8	21.9	403	25	7.5 - 11.3 - 17.6	4.7 - 7.0 - 11.9	101	2.7 - 4.0 - 8.0	151	3.0 - 4.5 - 9.0	2.7 - 4.0 - 8.0
	4.6	40.3	27.7	454	28	8.5 - 12.7 - 18.7	5.3 - 7.9 - 12.7	113	3.0 - 4.5 - 9.0	170	3.4 - 5.1 - 10.2	3.0 - 4.5 - 9.0
356 Round	5.1	49.7	34.2	504	31	9.4 - 13.9 - 19.7	5.9 - 8.8 - 13.3	126	3.4 - 5.0 - 10.1	189	3.8 - 5.7 - 11.3	3.4 - 5.0 - 10.1
	6.1	71.6	49.2	605	36	11.3 - 15.2 - 21.5	7.0 - 10.3 - 14.6	151	4.0 - 6.0 - 12.1	227	4.5 - 6.8 - 13.6	4.0 - 6.0 - 12.1
	7.1	97.4	67.0	706	40	13.2 - 16.5 - 23.3	8.2 - 11.2 - 15.8	176	4.7 - 7.0 - 14.1	265	5.3 - 7.9 - 15.8	4.7 - 7.0 - 14.1
457 x	2.0	9.0	6.5	37	-	1.6 - 2.4 - 4.8	1.0 - 1.5 - 3.0	9	0.6 - 0.9 - 1.7	14	0.6 - 1.0 - 1.9	0.6 - 0.9 - 1.7
	3.0	20.3	14.7	56	14	2.4 - 3.6 - 6.5	1.5 - 2.3 - 4.4	14	0.9 - 1.3 - 2.6	21	1.0 - 1.5 - 2.9	0.9 - 1.3 - 2.6
457	4.1	36.0	26.1	74	22	3.2 - 4.8 - 7.5	2.0 - 3.0 - 5.1	19	1.1 - 1.7 - 3.4	28	1.3 - 1.9 - 3.9	1.1 - 1.7 - 3.4
	5.1	56.3	40.8	93	28	4.0 - 6.0 - 8.4	2.5 - 3.8 - 5.7	23	1.4 - 2.2 - 4.3	35	1.6 - 2.4 - 4.8	1.4 - 2.2 - 4.3
152 Round	6.1	81.1	58.7	111	33	4.8 - 6.5 - 9.2	3.0 - 4.4 - 6.3	28	1.7 - 2.6 - 5.2	42	1.9 - 2.9 - 5.8	1.7 - 2.6 - 5.2
	6.6	95.2	68.9	120	35	5.3 - 6.8 - 9.6	3.3 - 4.6 - 6.5	30	1.9 - 2.8 - 5.6	45	2.1 - 3.2 - 6.3	1.9 - 2.8 - 5.6
	7.1	110.4	79.9	130	37	5.7 - 7.1 - 10.0	3.5 - 4.8 - 6.8	32	2.0 - 3.0 - 6.0	49	2.3 - 3.4 - 6.8	2.0 - 3.0 - 6.0
457 x	2.0	9.0	6.5	66	-	2.2 - 3.2 - 6.5	1.3 - 2.0 - 4.0	16	0.8 - 1.1 - 2.3	25	0.9 - 1.3 - 2.6	0.8 - 1.1 - 2.3
	3.0	20.3	14.7	99	15	3.2 - 4.8 - 8.7	2.0 - 3.0 - 5.9	25	1.1 - 1.7 - 3.4	37	1.3 - 1.9 - 3.9	1.1 - 1.7 - 3.4
457	4.1	36.0	26.1	132	23	4.3 - 6.5 - 10.1	2.7 - 4.0 - 6.8	33	1.5 - 2.3 - 4.6	49	1.7 - 2.6 - 5.2	1.5 - 2.3 - 4.6
	5.1	56.3	40.8	165	29	5.4 - 7.9 - 11.2	3.4 - 5.0 - 7.6	41	1.9 - 2.9 - 5.7	62	2.2 - 3.2 - 6.5	1.9 - 2.9 - 5.7
203 Round	6.1	81.1	58.7	198	34	6.5 - 8.7 - 12.3	4.0 - 5.9 - 8.4	49	2.3 - 3.4 - 6.9	74	2.6 - 3.9 - 7.8	2.3 - 3.4 - 6.9
	7.1	110.4	79.9	230	38	7.5 - 9.4 - 13.3	4.7 - 6.4 - 9.0	58	2.7 - 4.0 - 8.0	86	3.0 - 4.5 - 9.0	2.7 - 4.0 - 8.0
	7.6	126.7	91.8	247	40	7.9 - 9.7 - 13.8	5.0 - 6.6 - 9.3	62	2.9 - 4.3 - 8.6	93	3.2 - 4.8 - 9.7	2.9 - 4.3 - 8.6
457 x	2.0	8.8	6.3	103	-	2.7 - 4.0 - 8.1	1.7 - 2.5 - 5.0	26	1.0 - 1.4 - 2.9	39	1.1 - 1.6 - 3.2	1.0 - 1.4 - 2.9
	3.0	19.9	14.3	154	16	4.0 - 6.1 - 10.9	2.5 - 3.8 - 7.4	39	1.4 - 2.2 - 4.3	58	1.6 - 2.4 - 4.8	1.4 - 2.2 - 4.3
457	4.1	35.3	25.4	206	24	5.4 - 8.1 - 12.6	3.4 - 5.0 - 8.5	51	1.9 - 2.9 - 5.7	77	2.2 - 3.2 - 6.5	1.9 - 2.9 - 5.7
	4.6	44.7	32.1	231	27	6.1 - 9.1 - 13.3	3.8 - 5.7 - 9.0	58	2.2 - 3.2 - 6.5	87	2.4 - 3.6 - 7.3	2.2 - 3.2 - 6.5
254 Round	5.1	55.2	39.6	257	30	6.7 - 9.9 - 14.1	4.2 - 6.3 - 9.5	64	2.4 - 3.6 - 7.2	96	2.7 - 4.0 - 8.1	2.4 - 3.6 - 7.2
	6.1	79.4	57.1	309	35	8.1 - 10.9 - 15.4	5.0 - 7.4 - 10.4	77	2.9 - 4.3 - 8.6	116	3.2 - 4.8 - 9.7	2.9 - 4.3 - 8.6
	7.1	108.1	77.7	360	39	9.4 - 11.8 - 16.6	5.9 - 8.0 - 11.3	90	3.4 - 5.0 - 10.1	135	3.8 - 5.7 - 11.3	3.4 - 5.0 - 10.1
457 x	2.0	8.8	6.3	148	-	3.2 - 4.8 - 9.7	2.0 - 3.0 - 6.0	37	1.1 - 1.7 - 3.4	56	1.3 - 1.9 - 3.9	1.1 - 1.7 - 3.4
	3.0	19.9	14.3	222	17	4.8 - 7.3 - 13.1	3.0 - 4.5 - 8.9	56	1.7 - 2.6 - 5.2	83	1.9 - 2.9 - 5.8	1.7 - 2.6 - 5.2
457	4.1	35.3	25.4	296	25	6.5 - 9.7 - 15.1	4.0 - 6.0 - 10.2	74	2.3 - 3.4 - 6.9	111	2.6 - 3.9 - 7.8	2.3 - 3.4 - 6.9
	4.6	44.7	32.1	333	28	7.3 - 10.9 - 16.0	4.5 - 6.8 - 10.9	83	2.6 - 3.9 - 7.8	125	2.9 - 4.4 - 8.7	2.6 - 3.9 - 7.8
305 Round	5.1	55.2	39.6	370	31	8.1 - 11.9 - 16.9	5.0 - 7.5 - 11.4	93	2.9 - 4.3 - 8.6	139	3.2 - 4.8 - 9.7	2.9 - 4.3 - 8.6
	6.1	79.4	57.1	444	35	9.7 - 13.1 - 18.5	6.0 - 8.9 - 12.5	111	3.4 - 5.2 - 10.3	167	3.9 - 5.8 - 11.6	3.4 - 5.2 - 10.3
	7.1	108.1	77.7	519	40	11.3 - 14.1 - 20.0	7.0 - 9.6 - 13.5	130	4.0 - 6.0 - 12.1	194	4.5 - 6.8 - 13.6	4.0 - 6.0 - 12.1
457 x	2.0	8.6	6.1	202	-	3.8 - 5.7 - 11.3	2.3 - 3.5 - 7.0	50	1.3 - 2.0 - 4.0	76	1.5 - 2.3 - 4.5	1.3 - 2.0 - 4.0
	3.0	19.3	13.7	302	17	5.7 - 8.5 - 15.2	3.5 - 5.3 - 10.3	76	2.0 - 3.0 - 6.0	113	2.3 - 3.4 - 6.8	2.0 - 3.0 - 6.0
457	4.1	34.3	24.4	403	25	7.5 - 11.3 - 17.6	4.7 - 7.0 - 11.9	101	2.7 - 4.0 - 8.0	151	3.0 - 4.5 - 9.0	2.7 - 4.0 - 8.0
	4.6	43.5	30.9	454	28	8.5 - 12.7 - 18.7	5.3 - 7.9 - 12.7	113	3.0 - 4.5 - 9.0	170	3.4 - 5.1 - 10.2	3.0 - 4.5 - 9.0
356 Round	5.1	53.7	38.1	504	31	9.4 - 13.9 - 19.7	5.9 - 8.8 - 13.3	126	3.4 - 5.0 - 10.1	189	3.8 - 5.7 - 11.3	3.4 - 5.0 - 10.1
	6.1	77.3	54.9	605	36	11.3 - 15.2 - 21.5	7.0 - 10.3 - 14.6	151	4.0 - 6.0 - 12.1	227	4.5 - 6.8 - 13.6	4.0 - 6.0 - 12.1
	7.1	105.2	74.8	706	40	13.2 - 16.5 - 23.3	8.2 - 11.2 - 15.8	176	4.7 - 7.0 - 14.1	265	5.3 - 7.9 - 15.8	4.7 - 7.0 - 14.1
457 x	2.0	8.3	5.8	263	-	4.3 - 6.5 - 12.9	2.7 - 4.0 - 8.0	66	1.5 - 2.3 - 4.6	99	1.7 - 2.6 - 5.2	1.5 - 2.3 - 4.6
	3.0	18.7	13.1	395	18	6.5 - 9.7 - 17.4	4.0 - 6.0 - 11.8	99	2.3 - 3.4 - 6.9	148	2.6 - 3.9 - 7.8	2.3 - 3.4 - 6.9
457	4.1	33.2	23.2	527	26	8.6 - 12.9 - 20.1	5.4 - 8.0 - 13.6	132	3.1 - 4.6 - 9.2	198	3.4 - 5.2 - 10.3	3.1 - 4.6 - 9.2
	4.6	42.0	29.4	593	29	9.7 - 14.5 - 21.3	6.0 - 9.0 - 14.5	148	3.4 - 5.2 - 10.3	222	3.9 - 5.8 - 11.6	3.4 - 5.2 - 10.3
406 Round	5.1	51.8	36.3	658	32	10.8 - 15.9 - 22.5	6.7 - 10.1 - 15.3	165	3.8 - 5.7 - 11.5	247	4.3 - 6.5 - 12.9	3.8 - 5.7 - 11.5
	6.1	74.7	52.3	790	37	12.9 - 17.4 - 24.6	8.0 - 11.8 - 16.7	198	4.6 - 6.9 - 13.8	296	5.2 - 7.8 - 15.5	4.6 - 6.9 - 13.8
	7.1	101.6	71.2	922	41	15.1 - 18.8 - 26.6	9.4 - 12.8 - 18.1	230	5.4 - 8.0 - 16.1	346	6.0 - 9.0 - 18.1	5.4 - 8.0 - 16.1

NOTES: Throw values are given for isothermal conditions and 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. 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 B1-87 for 'Side A' and 'Side B' detail. See Krueger's selection software for performance data not shown, including octave band data.

SHPCR, 5SHPCR Performance Data: Vertical Throw

METRIC DATA: SHPCR, 5SHPCR (NO DAMPER)

Neck Dim	Neck Vel	Total Pres	Static Pres	Total Flow	NC	Discharge Air Pattern			
						Vert Δ + 40°F Throw	Vert Δ + 20°F Throw	Vert Δ + 0°F Throw	Vert Δ - 20°F Throw
						m	m	m	m
152 x 152	2.0	13.9	11.5	37.0	-	0.3 - 0.5 - 1.0	0.6 - 0.9 - 1.7	0.7 - 1.1 - 2.2	1.0 - 1.5 - 2.9
	3.0	31.4	25.8	55.6	18	0.5 - 0.8 - 1.6	0.9 - 1.3 - 2.6	1.1 - 1.7 - 3.4	1.5 - 2.2 - 4.4
	4.1	55.8	45.8	74.1	26	0.7 - 1.0 - 2.1	1.1 - 1.7 - 3.4	1.5 - 2.2 - 4.5	2.0 - 2.9 - 5.9
	5.1	87.1	71.6	92.6	32	0.9 - 1.3 - 2.6	1.4 - 2.2 - 4.3	1.9 - 2.8 - 5.6	2.4 - 3.7 - 7.3
	5.6	105.4	86.7	101.9	35	0.9 - 1.4 - 2.8	1.6 - 2.4 - 4.7	2.1 - 3.1 - 6.2	2.7 - 4.0 - 8.1
	6.1	125.5	103.1	111.1	37	1.0 - 1.6 - 3.1	1.7 - 2.6 - 5.2	2.2 - 3.4 - 6.7	2.9 - 4.4 - 8.8
152 Round	6.6	147.3	121.0	120.4	39	1.1 - 1.7 - 3.4	1.9 - 2.8 - 5.6	2.4 - 3.6 - 7.3	3.2 - 4.8 - 9.5
	2.0	13.9	11.5	37.0	-	0.3 - 0.5 - 1.0	0.6 - 0.9 - 1.7	0.7 - 1.1 - 2.2	1.0 - 1.5 - 2.9
	3.0	31.4	25.8	55.6	18	0.5 - 0.8 - 1.6	0.9 - 1.3 - 2.6	1.1 - 1.7 - 3.4	1.5 - 2.2 - 4.4
229 x 229	4.1	55.8	45.8	74.1	26	0.7 - 1.0 - 2.1	1.1 - 1.7 - 3.4	1.5 - 2.2 - 4.5	2.0 - 2.9 - 5.9
	5.1	87.1	71.6	92.6	32	0.9 - 1.3 - 2.6	1.4 - 2.2 - 4.3	1.9 - 2.8 - 5.6	2.4 - 3.7 - 7.3
	5.6	105.4	86.7	101.9	35	0.9 - 1.4 - 2.8	1.6 - 2.4 - 4.7	2.1 - 3.1 - 6.2	2.7 - 4.0 - 8.1
	6.1	125.5	103.1	111.1	37	1.0 - 1.6 - 3.1	1.7 - 2.6 - 5.2	2.2 - 3.4 - 6.7	2.9 - 4.4 - 8.8
	6.6	147.3	121.0	120.4	39	1.1 - 1.7 - 3.4	1.9 - 2.8 - 5.6	2.4 - 3.6 - 7.3	3.2 - 4.8 - 9.5
	152 Round	2.0	13.8	11.3	65.8	-	0.5 - 0.7 - 1.4	0.8 - 1.1 - 2.3	1.0 - 1.5 - 3.0
3.0		31.0	25.4	98.8	19	0.7 - 1.0 - 2.1	1.1 - 1.7 - 3.4	1.5 - 2.2 - 4.5	2.0 - 2.9 - 5.9
4.1		55.0	45.1	131.7	27	0.9 - 1.4 - 2.8	1.5 - 2.3 - 4.6	2.0 - 3.0 - 6.0	2.6 - 3.9 - 7.8
203 x 203	5.1	86.0	70.5	164.6	33	1.1 - 1.7 - 3.4	1.9 - 2.9 - 5.7	2.5 - 3.7 - 7.5	3.3 - 4.9 - 9.8
	5.6	104.0	85.3	181.1	36	1.3 - 1.9 - 3.8	2.1 - 3.2 - 6.3	2.7 - 4.1 - 8.2	3.6 - 5.4 - 10.7
	6.1	123.8	101.5	197.5	38	1.4 - 2.1 - 4.1	2.3 - 3.4 - 6.9	3.0 - 4.5 - 9.0	3.9 - 5.9 - 11.7
	6.6	145.3	119.1	214.0	40	1.5 - 2.2 - 4.5	2.5 - 3.7 - 7.5	3.2 - 4.9 - 9.7	4.2 - 6.3 - 12.7
	2.0	13.8	11.3	65.8	-	0.5 - 0.7 - 1.4	0.8 - 1.1 - 2.3	1.0 - 1.5 - 3.0	1.3 - 2.0 - 3.9
	3.0	31.0	25.4	98.8	19	0.7 - 1.0 - 2.1	1.1 - 1.7 - 3.4	1.5 - 2.2 - 4.5	2.0 - 2.9 - 5.9
203 Round	4.1	55.0	45.1	131.7	27	0.9 - 1.4 - 2.8	1.5 - 2.3 - 4.6	2.0 - 3.0 - 6.0	2.6 - 3.9 - 7.8
	5.1	86.0	70.5	164.6	33	1.1 - 1.7 - 3.4	1.9 - 2.9 - 5.7	2.5 - 3.7 - 7.5	3.3 - 4.9 - 9.8
	5.6	104.0	85.3	181.1	36	1.3 - 1.9 - 3.8	2.1 - 3.2 - 6.3	2.7 - 4.1 - 8.2	3.6 - 5.4 - 10.7
	6.1	123.8	101.5	197.5	38	1.4 - 2.1 - 4.1	2.3 - 3.4 - 6.9	3.0 - 4.5 - 9.0	3.9 - 5.9 - 11.7
	6.6	145.3	119.1	214.0	40	1.5 - 2.2 - 4.5	2.5 - 3.7 - 7.5	3.2 - 4.9 - 9.7	4.2 - 6.3 - 12.7
	2.0	13.5	11.0	102.9	-	0.6 - 0.9 - 1.7	1.0 - 1.4 - 2.9	1.2 - 1.9 - 3.7	1.6 - 2.4 - 4.9
305 x 305	3.0	30.4	24.8	154.3	20	0.9 - 1.3 - 2.6	1.4 - 2.2 - 4.3	1.9 - 2.8 - 5.6	2.4 - 3.7 - 7.3
	4.1	54.1	44.1	205.8	28	1.1 - 1.7 - 3.4	1.9 - 2.9 - 5.7	2.5 - 3.7 - 7.5	3.3 - 4.9 - 9.8
	5.1	84.5	69.0	257.2	34	1.4 - 2.2 - 4.3	2.4 - 3.6 - 7.2	3.1 - 4.7 - 9.3	4.1 - 6.1 - 12.2
	5.6	102.2	83.4	282.9	36	1.6 - 2.4 - 4.7	2.6 - 3.9 - 7.9	3.4 - 5.1 - 10.3	4.5 - 6.7 - 13.4
	6.1	121.7	99.3	308.7	39	1.7 - 2.6 - 5.2	2.9 - 4.3 - 8.6	3.7 - 5.6 - 11.2	4.9 - 7.3 - 14.7
	6.6	142.8	116.6	334.4	41	1.9 - 2.8 - 5.6	3.1 - 4.7 - 9.3	4.0 - 6.1 - 12.1	5.3 - 7.9 - 15.9
305 Round	2.0	13.2	10.7	148.2	-	0.7 - 1.0 - 2.1	1.1 - 1.7 - 3.4	1.5 - 2.2 - 4.5	2.0 - 2.9 - 5.9
	3.0	29.8	24.2	222.2	21	1.0 - 1.6 - 3.1	1.7 - 2.6 - 5.2	2.2 - 3.4 - 6.7	2.9 - 4.4 - 8.8
	4.1	52.9	43.0	296.3	29	1.4 - 2.1 - 4.1	2.3 - 3.4 - 6.9	3.0 - 4.5 - 9.0	3.9 - 5.9 - 11.7
	5.1	82.7	67.1	370.4	35	1.7 - 2.6 - 5.2	2.9 - 4.3 - 8.6	3.7 - 5.6 - 11.2	4.9 - 7.3 - 14.7
	5.6	100.0	81.2	407.4	37	1.9 - 2.8 - 5.7	3.2 - 4.7 - 9.5	4.1 - 6.2 - 12.3	5.4 - 8.1 - 16.1
	6.1	119.0	96.7	444.5	39	2.1 - 3.1 - 6.2	3.4 - 5.2 - 10.3	4.5 - 6.7 - 13.4	5.9 - 8.8 - 17.6
305 Round	6.6	139.7	113.5	481.5	42	2.2 - 3.4 - 6.7	3.7 - 5.6 - 11.2	4.9 - 7.3 - 14.6	6.3 - 9.5 - 19.0
	2.0	13.2	10.7	148.2	-	0.7 - 1.0 - 2.1	1.1 - 1.7 - 3.4	1.5 - 2.2 - 4.5	2.0 - 2.9 - 5.9
	3.0	29.8	24.2	222.2	21	1.0 - 1.6 - 3.1	1.7 - 2.6 - 5.2	2.2 - 3.4 - 6.7	2.9 - 4.4 - 8.8
	4.1	52.9	43.0	296.3	29	1.4 - 2.1 - 4.1	2.3 - 3.4 - 6.9	3.0 - 4.5 - 9.0	3.9 - 5.9 - 11.7
	5.1	82.7	67.1	370.4	35	1.7 - 2.6 - 5.2	2.9 - 4.3 - 8.6	3.7 - 5.6 - 11.2	4.9 - 7.3 - 14.7
	5.6	100.0	81.2	407.4	37	1.9 - 2.8 - 5.7	3.2 - 4.7 - 9.5	4.1 - 6.2 - 12.3	5.4 - 8.1 - 16.1
381 x 381	6.1	119.0	96.7	444.5	39	2.1 - 3.1 - 6.2	3.4 - 5.2 - 10.3	4.5 - 6.7 - 13.4	5.9 - 8.8 - 17.6
	6.6	139.7	113.5	481.5	42	2.2 - 3.4 - 6.7	3.7 - 5.6 - 11.2	4.9 - 7.3 - 14.6	6.3 - 9.5 - 19.0
	2.0	13.2	10.7	148.2	-	0.7 - 1.0 - 2.1	1.1 - 1.7 - 3.4	1.5 - 2.2 - 4.5	2.0 - 2.9 - 5.9
	3.0	29.8	24.2	222.2	21	1.0 - 1.6 - 3.1	1.7 - 2.6 - 5.2	2.2 - 3.4 - 6.7	2.9 - 4.4 - 8.8
	4.1	52.9	43.0	296.3	29	1.4 - 2.1 - 4.1	2.3 - 3.4 - 6.9	3.0 - 4.5 - 9.0	3.9 - 5.9 - 11.7
	5.1	82.7	67.1	370.4	35	1.7 - 2.6 - 5.2	2.9 - 4.3 - 8.6	3.7 - 5.6 - 11.2	4.9 - 7.3 - 14.7
305 Round	5.6	100.0	81.2	407.4	37	1.9 - 2.8 - 5.7	3.2 - 4.7 - 9.5	4.1 - 6.2 - 12.3	5.4 - 8.1 - 16.1
	6.1	119.0	96.7	444.5	39	2.1 - 3.1 - 6.2	3.4 - 5.2 - 10.3	4.5 - 6.7 - 13.4	5.9 - 8.8 - 17.6
	6.6	139.7	113.5	481.5	42	2.2 - 3.4 - 6.7	3.7 - 5.6 - 11.2	4.9 - 7.3 - 14.6	6.3 - 9.5 - 19.0

NOTES: Throw values are given for temperature differences shown and 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.

LOUVERED FACE DIFFUSERS

SHPCR - 5SHPCR

SHPCR, 5SHPCR Performance Data: Vertical Throw
METRIC DATA: SHPCR, 5SHPCR (NO DAMPER)

Neck Dim	Neck Vel	Total Pres	Static Pres	Total Flow	NC	Discharge Air Pattern			
						Vert Δ+ 40°F Throw	Vert Δ + 20°F Throw	Vert Δ + 0°F Throw	Vert Δ - 20°F Throw
						m	m	m	m
381 x	2.0	12.9	10.4	201.7	10	0.8 - 1.2 - 2.4	1.3 - 2.0 - 4.0	1.7 - 2.6 - 5.2	2.3 - 3.4 - 6.8
	3.0	29.0	23.4	302.5	21	1.2 - 1.8 - 3.6	2.0 - 3.0 - 6.0	2.6 - 3.9 - 7.8	3.4 - 5.1 - 10.3
381 Round	4.1	51.5	41.6	403.3	29	1.6 - 2.4 - 4.8	2.7 - 4.0 - 8.0	3.5 - 5.2 - 10.5	4.6 - 6.8 - 13.7
	5.1	80.5	65.0	504.1	35	2.0 - 3.0 - 6.0	3.4 - 5.0 - 10.1	4.4 - 6.5 - 13.1	5.7 - 8.5 - 17.1
356 Round	5.6	97.4	78.6	554.5	38	2.2 - 3.3 - 6.6	3.7 - 5.5 - 11.1	4.8 - 7.2 - 14.4	6.3 - 9.4 - 18.8
	6.1	115.9	93.6	605.0	40	2.4 - 3.6 - 7.2	4.0 - 6.0 - 12.1	5.2 - 7.8 - 15.7	6.8 - 10.3 - 20.5
	6.6	136.1	109.8	655.4	42	2.6 - 3.9 - 7.8	4.4 - 6.5 - 13.1	5.7 - 8.5 - 17.0	7.4 - 11.1 - 22.2
457 x	2.0	13.9	11.5	37.0	-	0.3 - 0.5 - 1.0	0.6 - 0.9 - 1.7	0.7 - 1.1 - 2.2	1.0 - 1.5 - 2.9
	3.0	31.4	25.8	55.6	18	0.5 - 0.8 - 1.6	0.9 - 1.3 - 2.6	1.1 - 1.7 - 3.4	1.5 - 2.2 - 4.4
457 Round	4.1	55.8	45.8	74.1	26	0.7 - 1.0 - 2.1	1.1 - 1.7 - 3.4	1.5 - 2.2 - 4.5	2.0 - 2.9 - 5.9
	5.1	87.1	71.6	92.6	32	0.9 - 1.3 - 2.6	1.4 - 2.2 - 4.3	1.9 - 2.8 - 5.6	2.4 - 3.7 - 7.3
152 Round	6.1	125.5	103.1	111.1	37	1.0 - 1.6 - 3.1	1.7 - 2.6 - 5.2	2.2 - 3.4 - 6.7	2.9 - 4.4 - 8.8
	6.6	147.3	121.0	120.4	39	1.1 - 1.7 - 3.4	1.9 - 2.8 - 5.6	2.4 - 3.6 - 7.3	3.2 - 4.8 - 9.5
	7.1	170.8	140.4	129.6	41	1.2 - 1.8 - 3.6	2.0 - 3.0 - 6.0	2.6 - 3.9 - 7.8	3.4 - 5.1 - 10.3
457 x	2.0	13.9	11.5	65.8	-	0.5 - 0.7 - 1.4	0.8 - 1.1 - 2.3	1.0 - 1.5 - 3.0	1.3 - 2.0 - 3.9
	3.0	31.4	25.8	98.8	19	0.7 - 1.0 - 2.1	1.1 - 1.7 - 3.4	1.5 - 2.2 - 4.5	2.0 - 2.9 - 5.9
457 Round	4.1	55.8	45.8	131.7	27	0.9 - 1.4 - 2.8	1.5 - 2.3 - 4.6	2.0 - 3.0 - 6.0	2.6 - 3.9 - 7.8
	5.1	87.1	71.6	164.6	33	1.1 - 1.7 - 3.4	1.9 - 2.9 - 5.7	2.5 - 3.7 - 7.5	3.3 - 4.9 - 9.8
203 Round	6.1	125.5	103.1	197.5	38	1.4 - 2.1 - 4.1	2.3 - 3.4 - 6.9	3.0 - 4.5 - 9.0	3.9 - 5.9 - 11.7
	6.6	147.3	121.0	214.0	40	1.5 - 2.2 - 4.5	2.5 - 3.7 - 7.5	3.2 - 4.9 - 9.7	4.2 - 6.3 - 12.7
	7.1	170.8	140.4	230.5	42	1.6 - 2.4 - 4.8	2.7 - 4.0 - 8.0	3.5 - 5.2 - 10.5	4.6 - 6.8 - 13.7
457 x	2.0	13.8	11.3	102.9	-	0.6 - 0.9 - 1.7	1.0 - 1.4 - 2.9	1.2 - 1.9 - 3.7	1.6 - 2.4 - 4.9
	3.0	31.0	25.4	154.3	20	0.9 - 1.3 - 2.6	1.4 - 2.2 - 4.3	1.9 - 2.8 - 5.6	2.4 - 3.7 - 7.3
457 Round	4.1	55.0	45.1	205.8	28	1.1 - 1.7 - 3.4	1.9 - 2.9 - 5.7	2.5 - 3.7 - 7.5	3.3 - 4.9 - 9.8
	5.1	86.0	70.5	257.2	34	1.4 - 2.2 - 4.3	2.4 - 3.6 - 7.2	3.1 - 4.7 - 9.3	4.1 - 6.1 - 12.2
254 Round	6.1	123.8	101.5	308.7	39	1.7 - 2.6 - 5.2	2.9 - 4.3 - 8.6	3.7 - 5.6 - 11.2	4.9 - 7.3 - 14.7
	6.6	145.3	119.1	334.4	41	1.9 - 2.8 - 5.6	3.1 - 4.7 - 9.3	4.0 - 6.1 - 12.1	5.3 - 7.9 - 15.9
	7.1	168.5	138.1	360.1	43	2.0 - 3.0 - 6.0	3.4 - 5.0 - 10.1	4.4 - 6.5 - 13.1	5.7 - 8.5 - 17.1
457 x	2.0	13.8	11.3	148.2	-	0.7 - 1.0 - 2.1	1.1 - 1.7 - 3.4	1.5 - 2.2 - 4.5	2.0 - 2.9 - 5.9
	3.0	31.0	25.4	222.2	21	1.0 - 1.6 - 3.1	1.7 - 2.6 - 5.2	2.2 - 3.4 - 6.7	2.9 - 4.4 - 8.8
457 Round	4.1	55.0	45.1	296.3	29	1.4 - 2.1 - 4.1	2.3 - 3.4 - 6.9	3.0 - 4.5 - 9.0	3.9 - 5.9 - 11.7
	5.1	86.0	70.5	370.4	35	1.7 - 2.6 - 5.2	2.9 - 4.3 - 8.6	3.7 - 5.6 - 11.2	4.9 - 7.3 - 14.7
305 Round	5.6	104.0	85.3	407.4	37	1.9 - 2.8 - 5.7	3.2 - 4.7 - 9.5	4.1 - 6.2 - 12.3	5.4 - 8.1 - 16.1
	6.1	123.8	101.5	444.5	39	2.1 - 3.1 - 6.2	3.4 - 5.2 - 10.3	4.5 - 6.7 - 13.4	5.9 - 8.8 - 17.6
	6.6	145.3	119.1	481.5	42	2.2 - 3.4 - 6.7	3.7 - 5.6 - 11.2	4.9 - 7.3 - 14.6	6.3 - 9.5 - 19.0
457 x	2.0	13.5	11.0	201.7	10	0.8 - 1.2 - 2.4	1.3 - 2.0 - 4.0	1.7 - 2.6 - 5.2	2.3 - 3.4 - 6.8
	3.0	30.4	24.8	302.5	21	1.2 - 1.8 - 3.6	2.0 - 3.0 - 6.0	2.6 - 3.9 - 7.8	3.4 - 5.1 - 10.3
457 Round	4.1	54.1	44.1	403.3	29	1.6 - 2.4 - 4.8	2.7 - 4.0 - 8.0	3.5 - 5.2 - 10.5	4.6 - 6.8 - 13.7
	5.1	84.5	69.0	504.1	35	2.0 - 3.0 - 6.0	3.4 - 5.0 - 10.1	4.4 - 6.5 - 13.1	5.7 - 8.5 - 17.1
356 Round	5.6	102.2	83.4	554.5	38	2.2 - 3.3 - 6.6	3.7 - 5.5 - 11.1	4.8 - 7.2 - 14.4	6.3 - 9.4 - 18.8
	6.1	121.7	99.3	605.0	40	2.4 - 3.6 - 7.2	4.0 - 6.0 - 12.1	5.2 - 7.8 - 15.7	6.8 - 10.3 - 20.5
	6.6	142.8	116.6	655.4	42	2.6 - 3.9 - 7.8	4.4 - 6.5 - 13.1	5.7 - 8.5 - 17.0	7.4 - 11.1 - 22.2
457 x	2.0	13.2	10.7	263.4	11	0.9 - 1.4 - 2.8	1.5 - 2.3 - 4.6	2.0 - 3.0 - 6.0	2.6 - 3.9 - 7.8
	3.0	29.8	24.2	395.1	22	1.4 - 2.1 - 4.1	2.3 - 3.4 - 6.9	3.0 - 4.5 - 9.0	3.9 - 5.9 - 11.7
457 Round	4.1	52.9	43.0	526.8	30	1.8 - 2.8 - 5.5	3.1 - 4.6 - 9.2	4.0 - 6.0 - 12.0	5.2 - 7.8 - 15.6
	5.1	82.7	67.1	658.5	36	2.3 - 3.4 - 6.9	3.8 - 5.7 - 11.5	5.0 - 7.5 - 14.9	6.5 - 9.8 - 19.5
406 Round	5.6	100.0	81.2	724.3	38	2.5 - 3.8 - 7.6	4.2 - 6.3 - 12.6	5.5 - 8.2 - 16.4	7.2 - 10.7 - 21.5
	6.1	119.0	96.7	790.2	41	2.8 - 4.1 - 8.3	4.6 - 6.9 - 13.8	6.0 - 9.0 - 17.9	7.8 - 11.7 - 23.4
	6.6	139.7	113.5	856.0	43	3.0 - 4.5 - 9.0	5.0 - 7.5 - 14.9	6.5 - 9.7 - 19.4	8.5 - 12.7 - 25.4

NOTES: Throw values are given for temperature differences shown and 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.

SHPCR, 5SHPCR Suggested Specification & Configuration

SHPCR, 5SHPCR

The ceiling diffuser shall be Krueger model SHPCR (steel) or 5SHPCR (aluminum) louver face with adjustable pattern controllers for horizontal or vertical discharge airflow. The pattern controllers shall be accessible from the face. These diffusers shall have a round neck of the sizes and frame styles shown on the drawing or job schedule. The diffuser shall have an easily removable core with fixed blades in 1, 2, 3, or 4-way configurations.

PERFORMANCE

The manufacturer shall provide published 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° 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.

LOUVERED FACE DIFFUSERS

SHPCR - 5SHPCR

- 1. SERIES: (XXXXXX)**
 SHPCR - Round Inlet with Pattern Controllers, Steel Ceiling Diffuser
 5SHPCR - Round Inlet with Pattern Controllers, Aluminum Ceiling Diffuser

- 2. PATTERN: (XX)**
 01 - 1-Way
 02 - 2-Way
 03 - 3-Way
 04 - 4-Way

- 3. ROUND INLET: (XX)**
 6" - 16" in 2" Increments

- 4. SQUARE NECK: (XX)**
 If Round Inlet =
 6 - Select 6", 9", 12", 15", or 18"
 8 - Select 9", 12", 15", or 18"
 10 - Select 12", 15", or 18"
 12 - Select 12", 15", or 18"
 14 - Select 15" or 18"
 16 - Select 18"

- 5. FRAME: (XXX) ***
 F21 - Surface Mount, Beveled
 F22 - Surface Mount, Flat
 F23 - Lay-in T-Bar
 F24 - Snap-in T-Bar
 F27 - Spline
 F98 - 5/16" Step Down

- 6. PANEL: (XX)x(XX) ****
 None
 12"x12"
 24"x24"

- 7. DAMPER: (XX)**
 00 - None 03 - PR10
 04 - PRD10 06 - PR12
 08 - PRN100

- 8. ACCESSORIES: (XX)**
 00 - None
 R - Round Straightening Grid

- 9. FINISH: (XX)**
 01 - Mill
 10 - Alumican
 35 - Black
 44 - British White

* If Frame 23, 24, 27, or 98 are specified, specify panel size.
** Reference page B1-87 for panel and neck size availability. Specify Panel 'None' if Frame 21 or 22 has been selected.

SAMPLE CONFIGURATION: SHPCR - 04 - 08 - 12 - F22 - NONE - 08 - 00 - 44