

**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**

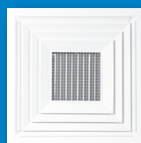
These supply diffusers feature a round neck, three cones, and adjustable pattern controllers.

**SH, 5SH, SHFR, MSH, SHV, 5SHV, SHR, 5SHR, SHRV, 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.

1400, 1400FR, 51400, M1400, M51400

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1400A, 51400A

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SH, 5SH, SHFR, MSH

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SHRV, 5SHRV

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SHPCR, 5SHPCR

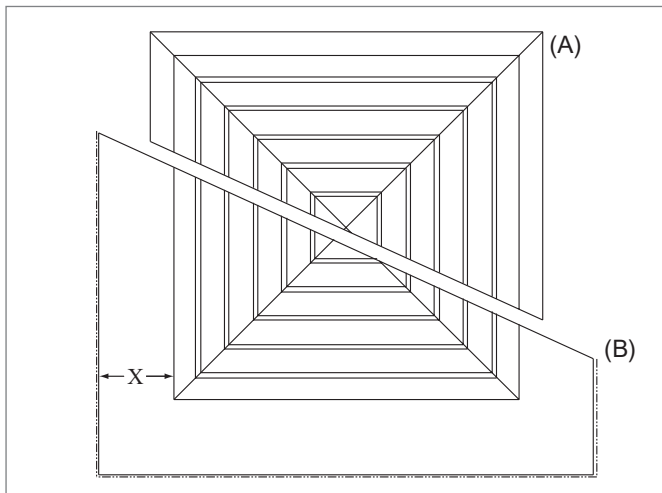
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SHR

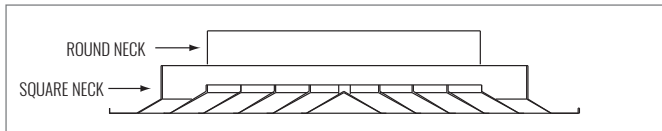
SHR, 5SHR Dimensional Information

SHR, 5SHR, FACE VIEW

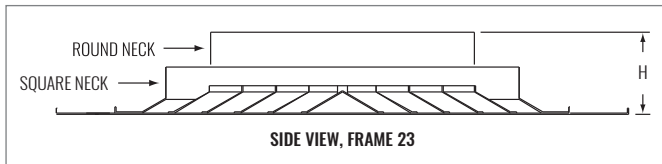


NOTE: Dimension 'X' will vary with neck sizes for Frames 23, 24, 27, and 98.

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



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



SIDE VIEW, FRAME 23

Introduction: SHR, 5SHR

The SHR/5SHR 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. Because this series has higher discharge face velocities, they are an excellent choice for variable air volume systems with above normal temperature differentials. At typical flow rates, isothermal throws of 18 - 30 feet make the SHR/5SHR ideal for mounting centrally in many spaces with high load requirements while providing high mixing rates in the space.

MODELS

SHR - Steel Louvered Diffuser

5SHR - Aluminum Louvered Diffuser

FEATURES

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

PANEL SIZES

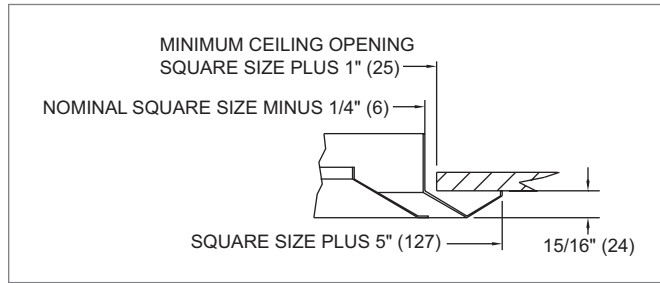
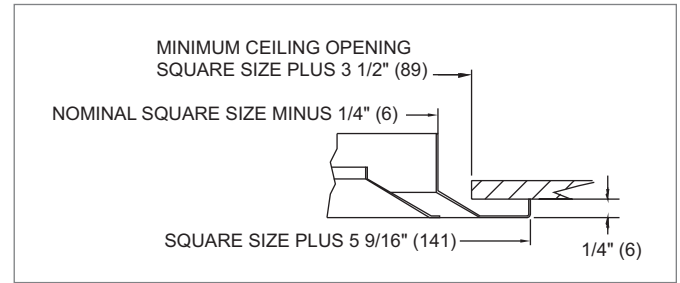
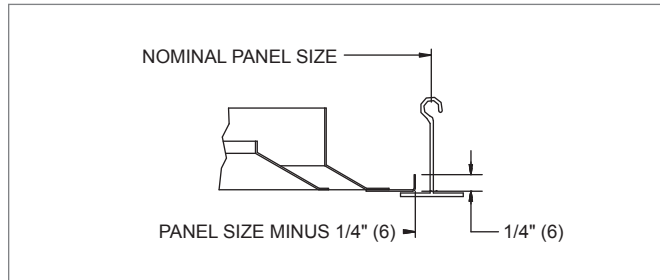
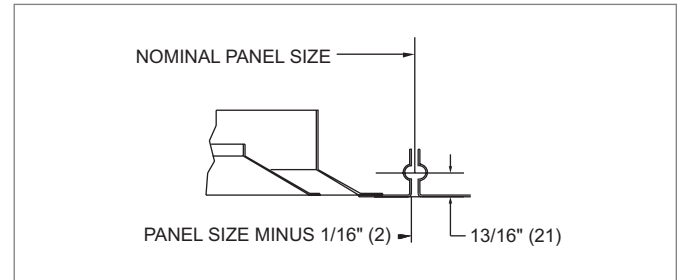
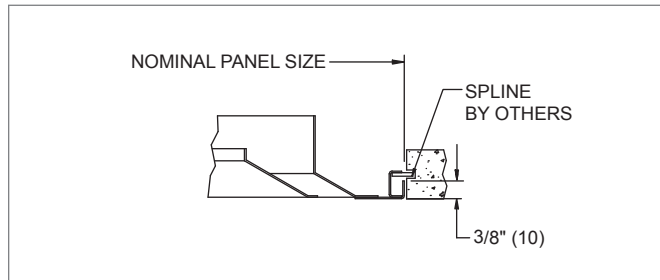
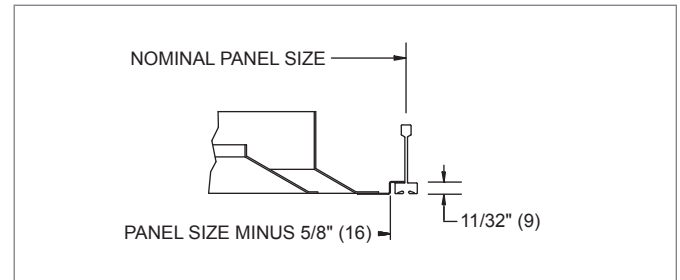
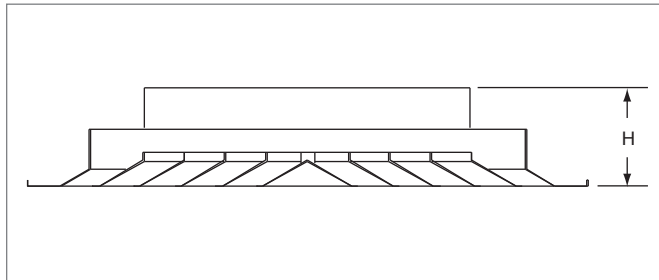
- 12"x12"
- 24"x24"

ACCESSORIES

- Optional R6 insulation.
- Optional straightening grid.
- Optional round damper.

FINISHES

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

SHR, 5SHR Frame Styles
SHR, 5SHR, FRAME 21, SURFACE MOUNT, BEVELED

SHR, 5SHR, FRAME 22, SURFACE MOUNT, FLAT

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

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

SHR, 5SHR, FRAME 27, SPLINE

SHR, 5SHR, FRAME 98, NARROW-T

SHR, 5SHR, CROSS SECTION, OVERALL HEIGHT


NOTES: Dimensions in parentheses are mm. Core removal is the same as the SH series of diffusers. Reference page B1-38 for details.

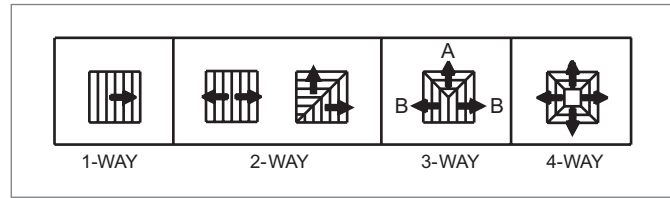
* Available in 4-way discharge air pattern only.

SHR, 5SHR, AVAILABLE NECK SIZES

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

SHR, 5SHR Discharge Air Patterns

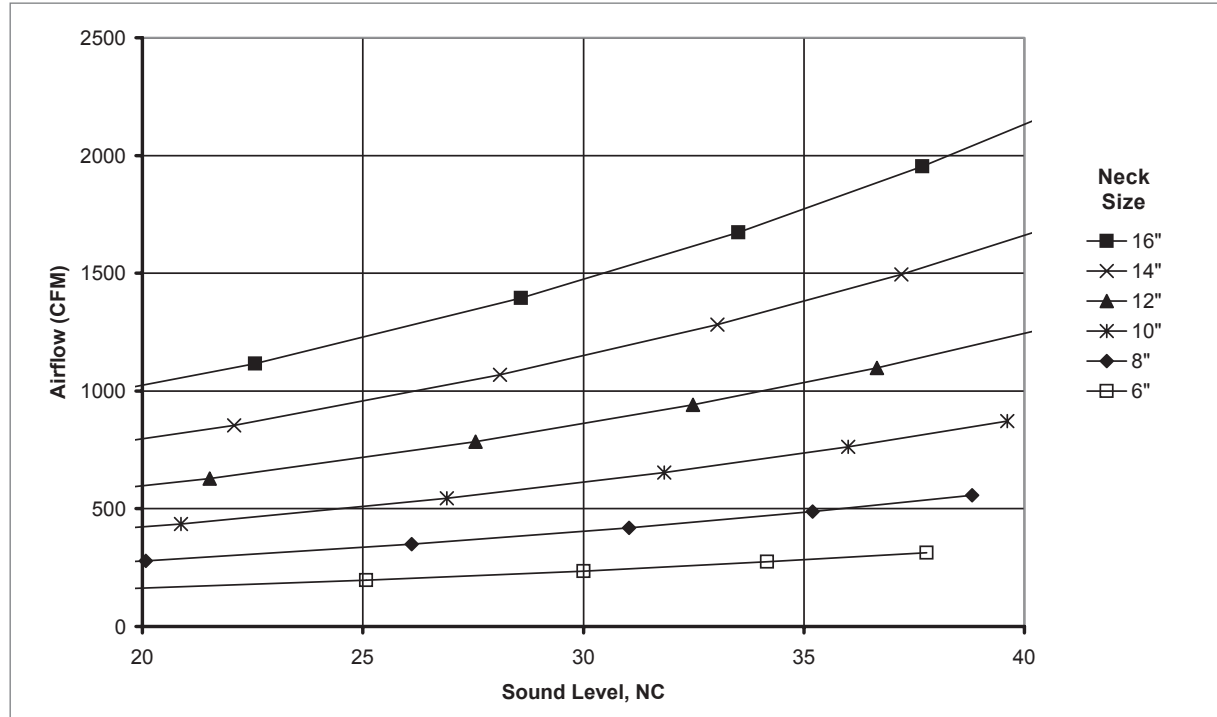
SHR, 5SHR, DISCHARGE AIR PATTERNS (FACE VIEW)

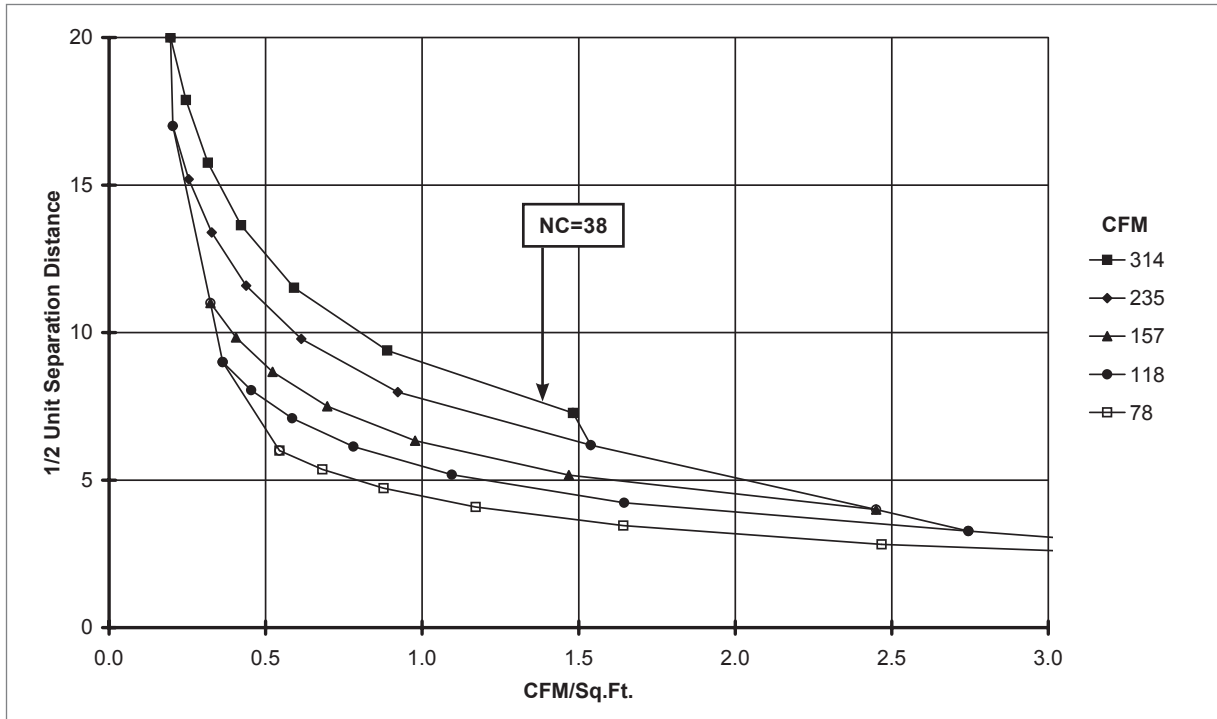
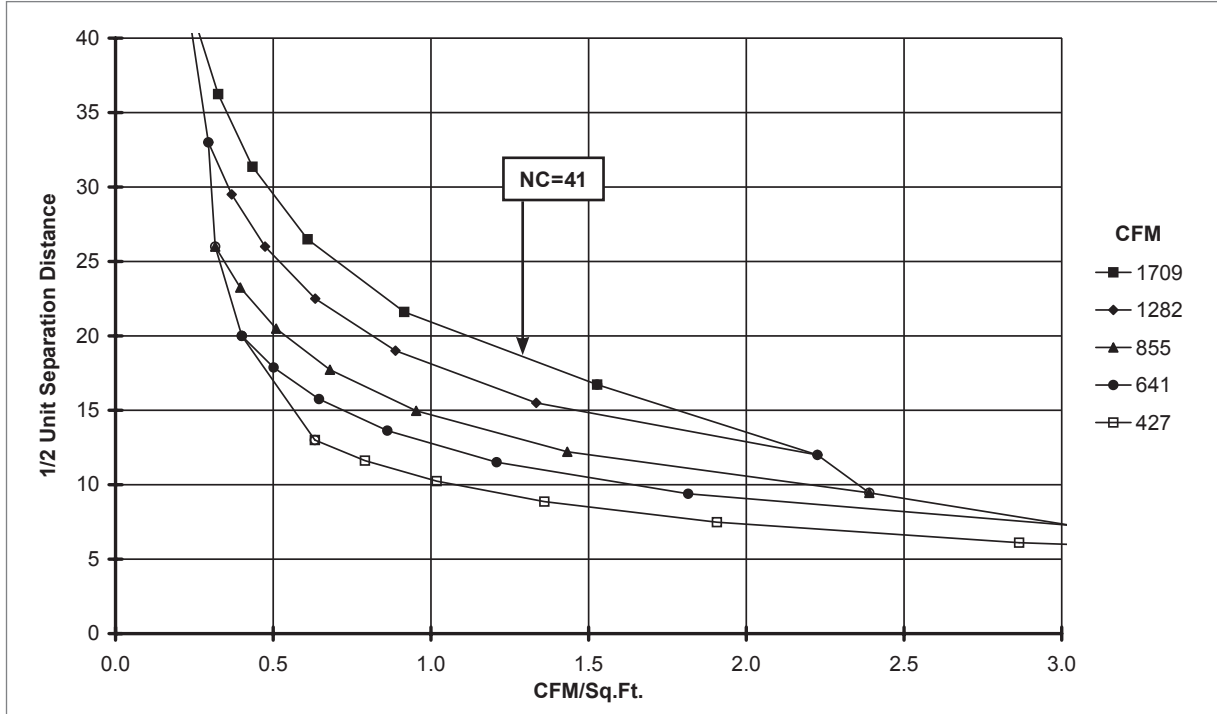


NOTE: 'A' & 'B' notations correspond to performance data.

SHR, 5SHR Reference Chart

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



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

DIFFUSER SPACING FOR 80% ADPI: SHR, 5SHR, 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.

SHR, 5SHR Performance Data: Horizontal Throw

IP DATA: SHR, 5SHR (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	0.024	0.014	78	-	5 - 8 - 16	3 - 5 - 10	20	2 - 3 - 6	29	2 - 3 - 6	2 - 3 - 6
	600	0.054	0.031	118	11	8 - 12 - 21	5 - 7 - 15	29	3 - 4 - 9	44	3 - 5 - 10	3 - 4 - 9
	800	0.095	0.055	157	19	11 - 16 - 25	7 - 10 - 17	39	4 - 6 - 11	59	4 - 6 - 13	4 - 6 - 11
	1000	0.149	0.086	196	25	13 - 20 - 28	8 - 12 - 19	49	5 - 7 - 14	74	5 - 8 - 16	5 - 7 - 14
	1200	0.214	0.124	235	30	16 - 21 - 30	10 - 15 - 21	59	6 - 9 - 17	88	6 - 10 - 19	6 - 9 - 17
	1400	0.292	0.169	275	34	19 - 23 - 33	12 - 16 - 22	69	7 - 10 - 20	103	7 - 11 - 22	7 - 10 - 20
	1600	0.381	0.221	314	38	20 - 25 - 35	13 - 17 - 24	78	8 - 11 - 23	118	9 - 13 - 25	8 - 11 - 23
9" x 9" Round	400	0.024	0.014	78	-	5 - 8 - 16	3 - 5 - 10	20	2 - 3 - 6	29	2 - 3 - 6	2 - 3 - 6
	600	0.054	0.031	118	11	8 - 12 - 21	5 - 7 - 15	29	3 - 4 - 9	44	3 - 5 - 10	3 - 4 - 9
	800	0.095	0.055	157	19	11 - 16 - 25	7 - 10 - 17	39	4 - 6 - 11	59	4 - 6 - 13	4 - 6 - 11
	1000	0.149	0.086	196	25	13 - 20 - 28	8 - 12 - 19	49	5 - 7 - 14	74	5 - 8 - 16	5 - 7 - 14
	1200	0.214	0.124	235	30	16 - 21 - 30	10 - 15 - 21	59	6 - 9 - 17	88	6 - 10 - 19	6 - 9 - 17
	1400	0.292	0.169	275	34	19 - 23 - 33	12 - 16 - 22	69	7 - 10 - 20	103	7 - 11 - 22	7 - 10 - 20
	1600	0.381	0.221	314	38	20 - 25 - 35	13 - 17 - 24	78	8 - 11 - 23	118	9 - 13 - 25	8 - 11 - 23
9" x 8" Round	400	0.023	0.013	140	-	7 - 11 - 21	4 - 7 - 13	35	3 - 4 - 8	52	3 - 4 - 9	3 - 4 - 8
	600	0.052	0.029	209	12	11 - 16 - 29	7 - 10 - 19	52	4 - 6 - 11	78	4 - 6 - 13	4 - 6 - 11
	800	0.092	0.052	279	20	14 - 21 - 33	9 - 13 - 22	70	5 - 8 - 15	105	6 - 9 - 17	5 - 8 - 15
	1000	0.144	0.082	349	26	18 - 26 - 37	11 - 17 - 25	87	6 - 9 - 19	131	7 - 11 - 21	6 - 9 - 19
	1200	0.208	0.118	419	31	21 - 29 - 41	13 - 19 - 27	105	8 - 11 - 23	157	9 - 13 - 26	8 - 11 - 23
	1400	0.282	0.160	488	35	25 - 31 - 44	15 - 21 - 30	122	9 - 13 - 26	183	10 - 15 - 30	9 - 13 - 26
	1600	0.369	0.209	558	39	27 - 33 - 47	18 - 22 - 32	140	10 - 15 - 30	209	11 - 17 - 33	10 - 15 - 30
12" x 12" Round	400	0.023	0.013	140	-	7 - 11 - 21	4 - 7 - 13	35	3 - 4 - 8	52	3 - 4 - 9	3 - 4 - 8
	600	0.052	0.029	209	12	11 - 16 - 29	7 - 10 - 19	52	4 - 6 - 11	78	4 - 6 - 13	4 - 6 - 11
	800	0.092	0.052	279	20	14 - 21 - 33	9 - 13 - 22	70	5 - 8 - 15	105	6 - 9 - 17	5 - 8 - 15
	1000	0.144	0.082	349	26	18 - 26 - 37	11 - 17 - 25	87	6 - 9 - 19	131	7 - 11 - 21	6 - 9 - 19
	1200	0.208	0.118	419	31	21 - 29 - 41	13 - 19 - 27	105	8 - 11 - 23	157	9 - 13 - 26	8 - 11 - 23
	1400	0.282	0.160	488	35	25 - 31 - 44	15 - 21 - 30	122	9 - 13 - 26	183	10 - 15 - 30	9 - 13 - 26
	1500	0.324	0.184	523	37	26 - 32 - 45	17 - 22 - 31	131	9 - 14 - 28	196	11 - 16 - 32	9 - 14 - 28
12" x 10" Round	400	0.022	0.012	218	-	9 - 13 - 27	6 - 8 - 17	55	3 - 5 - 9	82	4 - 5 - 11	3 - 5 - 9
	600	0.050	0.027	327	13	13 - 20 - 36	8 - 12 - 24	82	5 - 7 - 14	123	5 - 8 - 16	5 - 7 - 14
	800	0.088	0.049	436	21	18 - 27 - 41	11 - 17 - 28	109	6 - 9 - 19	164	7 - 11 - 21	6 - 9 - 19
	900	0.112	0.061	491	24	20 - 30 - 44	12 - 19 - 30	123	7 - 11 - 21	184	8 - 12 - 24	7 - 11 - 21
	1000	0.138	0.076	545	27	22 - 33 - 46	14 - 21 - 31	136	8 - 12 - 24	204	9 - 13 - 27	8 - 12 - 24
	1200	0.199	0.109	654	32	27 - 36 - 51	17 - 24 - 34	164	9 - 14 - 28	245	11 - 16 - 32	9 - 14 - 28
	1400	0.271	0.149	763	36	31 - 39 - 55	19 - 26 - 37	191	11 - 17 - 33	286	12 - 19 - 37	11 - 17 - 33
12" x 12" Round	400	0.021	0.011	314	-	11 - 16 - 32	7 - 10 - 20	78	4 - 6 - 11	118	4 - 6 - 13	4 - 6 - 11
	600	0.047	0.025	471	14	16 - 24 - 43	10 - 15 - 29	118	6 - 9 - 17	177	6 - 10 - 19	6 - 9 - 17
	800	0.084	0.044	628	22	21 - 32 - 50	13 - 20 - 34	157	8 - 11 - 23	235	9 - 13 - 26	8 - 11 - 23
	900	0.106	0.055	706	25	24 - 36 - 53	15 - 22 - 36	177	9 - 13 - 26	265	10 - 14 - 29	9 - 13 - 26
	1000	0.131	0.068	785	28	27 - 39 - 55	17 - 25 - 38	196	9 - 14 - 28	294	11 - 16 - 32	9 - 14 - 28
	1200	0.188	0.099	942	32	32 - 43 - 61	20 - 29 - 41	235	11 - 17 - 34	353	13 - 19 - 38	11 - 17 - 34
	1400	0.256	0.134	1099	37	37 - 46 - 66	23 - 31 - 45	275	13 - 20 - 40	412	15 - 22 - 45	13 - 20 - 40
15" x 12" Round	400	0.021	0.011	314	-	11 - 16 - 32	7 - 10 - 20	78	4 - 6 - 11	118	4 - 6 - 13	4 - 6 - 11
	600	0.047	0.025	471	14	16 - 24 - 43	10 - 15 - 29	118	6 - 9 - 17	177	6 - 10 - 19	6 - 9 - 17
	800	0.084	0.044	628	22	21 - 32 - 50	13 - 20 - 34	157	8 - 11 - 23	235	9 - 13 - 26	8 - 11 - 23
	900	0.106	0.055	706	25	24 - 36 - 53	15 - 22 - 36	177	9 - 13 - 26	265	10 - 14 - 29	9 - 13 - 26
	1000	0.131	0.068	785	28	27 - 39 - 55	17 - 25 - 38	196	9 - 14 - 28	294	11 - 16 - 32	9 - 14 - 28
	1200	0.188	0.099	942	32	32 - 43 - 61	20 - 29 - 41	235	11 - 17 - 34	353	13 - 19 - 38	11 - 17 - 34
	1400	0.256	0.134	1099	37	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 B1-69 for 'Side A' and 'Side B' detail. See Krueger's selection software for performance data not shown, including octave band data and different core styles.

SHR, 5SHR Performance Data: Horizontal Throw

IP DATA: SHR, 5SHR (NO DAMPER)

						Discharge Air Pattern						
Neck Dim	Neck Vel	Total Pres	Static Pres	Total Flow	NC	1-Way Throw	2-Way Throw	3 - Side A		3 - Side B		4-Way Throw
in.	FPM	"WG	"WG	CFM		ft	ft	Flow	Throw	Flow	Throw	
								CFM	ft	CFM	ft	ft
15" x 15" Round	400	0.020	0.010	427	-	12 - 19 - 37	8 - 12 - 23	107	4 - 7 - 13	160	5 - 7 - 15	4 - 7 - 13
	600	0.044	0.022	641	14	19 - 28 - 50	12 - 17 - 34	160	7 - 10 - 20	240	7 - 11 - 22	7 - 10 - 20
	800	0.078	0.038	855	22	25 - 37 - 58	15 - 23 - 39	214	9 - 13 - 26	320	10 - 15 - 30	9 - 13 - 26
	900	0.099	0.048	961	25	28 - 42 - 61	17 - 26 - 42	240	10 - 15 - 30	361	11 - 17 - 33	10 - 15 - 30
	1000	0.122	0.060	1068	28	31 - 46 - 65	19 - 29 - 44	267	11 - 17 - 33	401	12 - 19 - 37	11 - 17 - 33
	1200	0.176	0.086	1282	33	37 - 50 - 71	23 - 34 - 48	320	13 - 20 - 40	481	15 - 22 - 45	13 - 20 - 40
1400	0.239	0.117	1495	37	43 - 54 - 77	27 - 37 - 52	374	15 - 23 - 46	561	17 - 26 - 52	15 - 23 - 46	
18" x 18" Round	400	0.024	0.014	78	-	5 - 8 - 16	3 - 5 - 10	20	2 - 3 - 6	29	2 - 3 - 6	2 - 3 - 6
	600	0.054	0.031	118	11	8 - 12 - 21	5 - 7 - 15	29	3 - 4 - 9	44	3 - 5 - 10	3 - 4 - 9
	800	0.095	0.055	157	19	11 - 16 - 25	7 - 10 - 17	39	4 - 6 - 11	59	4 - 6 - 13	4 - 6 - 11
	1000	0.149	0.086	196	25	13 - 20 - 28	8 - 12 - 19	49	5 - 7 - 14	74	5 - 8 - 16	5 - 7 - 14
	1200	0.214	0.124	235	30	16 - 21 - 30	10 - 15 - 21	59	6 - 9 - 17	88	6 - 10 - 19	6 - 9 - 17
	1300	0.251	0.146	255	32	17 - 22 - 32	11 - 15 - 21	64	6 - 9 - 18	96	7 - 10 - 21	6 - 9 - 18
1400	0.292	0.169	275	34	19 - 23 - 33	12 - 16 - 22	69	7 - 10 - 20	103	7 - 11 - 22	7 - 10 - 20	
18" x 18" Round	400	0.024	0.014	140	-	7 - 11 - 21	4 - 7 - 13	35	3 - 4 - 8	52	3 - 4 - 9	3 - 4 - 8
	600	0.054	0.031	209	12	11 - 16 - 29	7 - 10 - 19	52	4 - 6 - 11	78	4 - 6 - 13	4 - 6 - 11
	800	0.095	0.055	279	20	14 - 21 - 33	9 - 13 - 22	70	5 - 8 - 15	105	6 - 9 - 17	5 - 8 - 15
	1000	0.149	0.086	349	26	18 - 26 - 37	11 - 17 - 25	87	6 - 9 - 19	131	7 - 11 - 21	6 - 9 - 19
	1200	0.214	0.124	419	31	21 - 29 - 41	13 - 19 - 27	105	8 - 11 - 23	157	9 - 13 - 26	8 - 11 - 23
	1400	0.292	0.169	488	35	25 - 31 - 44	15 - 21 - 30	122	9 - 13 - 26	183	10 - 15 - 30	9 - 13 - 26
1500	0.335	0.194	523	37	26 - 32 - 45	17 - 22 - 31	131	9 - 14 - 28	196	11 - 16 - 32	9 - 14 - 28	
18" x 18" Round	400	0.023	0.013	218	-	9 - 13 - 27	6 - 8 - 17	55	3 - 5 - 9	82	4 - 5 - 11	3 - 5 - 9
	600	0.052	0.029	327	13	13 - 20 - 36	8 - 12 - 24	82	5 - 7 - 14	123	5 - 8 - 16	5 - 7 - 14
	800	0.092	0.052	436	21	18 - 27 - 41	11 - 17 - 28	109	6 - 9 - 19	164	7 - 11 - 21	6 - 9 - 19
	900	0.117	0.066	491	24	20 - 30 - 44	12 - 19 - 30	123	7 - 11 - 21	184	8 - 12 - 24	7 - 11 - 21
	1000	0.144	0.082	545	27	22 - 33 - 46	14 - 21 - 31	136	8 - 12 - 24	204	9 - 13 - 27	8 - 12 - 24
	1200	0.208	0.118	654	32	27 - 36 - 51	17 - 24 - 34	164	9 - 14 - 28	245	11 - 16 - 32	9 - 14 - 28
1400	0.282	0.160	763	36	31 - 39 - 55	19 - 26 - 37	191	11 - 17 - 33	286	12 - 19 - 37	11 - 17 - 33	
18" x 18" Round	400	0.023	0.013	314	-	11 - 16 - 32	7 - 10 - 20	78	4 - 6 - 11	118	4 - 6 - 13	4 - 6 - 11
	600	0.052	0.029	471	14	16 - 24 - 43	10 - 15 - 29	118	6 - 9 - 17	177	6 - 10 - 19	6 - 9 - 17
	800	0.092	0.052	628	22	21 - 32 - 50	13 - 20 - 34	157	8 - 11 - 23	235	9 - 13 - 26	8 - 11 - 23
	900	0.117	0.066	706	25	24 - 36 - 53	15 - 22 - 36	177	9 - 13 - 26	265	10 - 14 - 29	9 - 13 - 26
	1000	0.144	0.082	785	28	27 - 39 - 55	17 - 25 - 38	196	9 - 14 - 28	294	11 - 16 - 32	9 - 14 - 28
	1200	0.208	0.118	942	32	32 - 43 - 61	20 - 29 - 41	235	11 - 17 - 34	353	13 - 19 - 38	11 - 17 - 34
1400	0.282	0.160	1099	37	37 - 46 - 66	23 - 31 - 45	275	13 - 20 - 40	412	15 - 22 - 45	13 - 20 - 40	
18" x 18" Round	400	0.022	0.012	427	-	12 - 19 - 37	8 - 12 - 23	107	4 - 7 - 13	160	5 - 7 - 15	4 - 7 - 13
	600	0.050	0.027	641	14	19 - 28 - 50	12 - 17 - 34	160	7 - 10 - 20	240	7 - 11 - 22	7 - 10 - 20
	800	0.088	0.049	855	22	25 - 37 - 58	15 - 23 - 39	214	9 - 13 - 26	320	10 - 15 - 30	9 - 13 - 26
	900	0.112	0.061	961	25	28 - 42 - 61	17 - 26 - 42	240	10 - 15 - 30	361	11 - 17 - 33	10 - 15 - 30
	1000	0.138	0.076	1068	28	31 - 46 - 65	19 - 29 - 44	267	11 - 17 - 33	401	12 - 19 - 37	11 - 17 - 33
	1200	0.199	0.109	1282	33	37 - 50 - 71	23 - 34 - 48	320	13 - 20 - 40	481	15 - 22 - 45	13 - 20 - 40
1400	0.271	0.149	1495	37	43 - 54 - 77	27 - 37 - 52	374	15 - 23 - 46	561	17 - 26 - 52	15 - 23 - 46	
18" x 18" Round	400	0.021	0.011	558	-	14 - 21 - 43	9 - 13 - 26	140	5 - 8 - 15	209	6 - 9 - 17	5 - 8 - 15
	600	0.047	0.025	837	15	21 - 32 - 57	13 - 20 - 39	209	8 - 11 - 23	314	9 - 13 - 26	8 - 11 - 23
	800	0.084	0.044	1116	23	28 - 43 - 66	18 - 26 - 45	279	10 - 15 - 30	419	11 - 17 - 34	10 - 15 - 30
	900	0.106	0.055	1256	26	32 - 48 - 70	20 - 30 - 48	314	11 - 17 - 34	471	13 - 19 - 38	11 - 17 - 34
	1000	0.131	0.068	1395	29	35 - 52 - 74	22 - 33 - 50	349	13 - 19 - 38	523	14 - 21 - 43	13 - 19 - 38
	1200	0.188	0.099	1674	34	43 - 57 - 81	26 - 39 - 55	419	15 - 23 - 45	628	17 - 26 - 51	15 - 23 - 45
1400	0.256	0.134	1953	38	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 B1-69 for 'Side A' and 'Side B' detail. See Krueger's selection software for performance data not shown, including octave band data and different core styles.

SHR, 5SHR Performance Data: Horizontal Throw

METRIC DATA: SHR, 5SHR (NO DAMPER)

						Discharge Air Pattern						
Neck Dim	Neck Vel	Total Pres	Static Pres	Total Flow	NC	1-Way Throw	2-Way Throw	3 - Side A		3 - Side B		4-Way Throw
mm	m/s	Pa	Pa	L/s		m	m	Flow	Throw	Flow	Throw	
								L/s	m	L/s	m	m
152 x 152 Round	2.0	5.9	3.4	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	13.3	7.7	56	11	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
	4.1	23.7	13.8	74	19	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	37.0	21.5	93	25	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
	6.1	53.3	31.0	111	30	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
	7.1	72.6	42.2	130	34	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
	8.1	94.8	55.1	148	38	6.2 - 7.5 - 10.7	4.0 - 5.1 - 7.2	37	2.3 - 3.4 - 6.9	56	2.6 - 3.9 - 7.6	2.3 - 3.4 - 6.9
229 x 229 Round	2.0	5.9	3.4	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	13.3	7.7	56	11	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
	4.1	23.7	13.8	74	19	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	37.0	21.5	93	25	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
	6.1	53.3	31.0	111	30	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
	7.1	72.6	42.2	130	34	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
	8.1	94.8	55.1	148	38	6.2 - 7.5 - 10.7	4.0 - 5.1 - 7.2	37	2.3 - 3.4 - 6.9	56	2.6 - 3.9 - 7.6	2.3 - 3.4 - 6.9
229 x 229 Round	2.0	5.7	3.3	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	12.9	7.3	99	12	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
	4.1	23.0	13.0	132	20	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	35.9	20.4	165	26	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
	6.1	51.7	29.3	198	31	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	70.3	39.9	230	35	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
	8.1	91.9	52.1	263	39	8.2 - 10.1 - 14.2	5.4 - 6.8 - 9.6	66	3.1 - 4.6 - 9.2	99	3.4 - 5.2 - 10.2	3.1 - 4.6 - 9.2
305 x 305 Round	2.0	5.7	3.3	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	12.9	7.3	99	12	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
	4.1	23.0	13.0	132	20	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	35.9	20.4	165	26	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
	6.1	51.7	29.3	198	31	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	70.3	39.9	230	35	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	80.7	45.8	247	37	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
305 x 305 Round	2.0	5.5	3.0	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	12.4	6.8	154	13	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
	4.1	22.0	12.1	206	21	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	27.9	15.3	231	24	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
	5.1	34.4	18.9	257	27	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	49.5	27.2	309	32	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	67.4	37.0	360	36	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
305 x 305 Round	2.0	5.2	2.7	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	11.7	6.1	222	14	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
	4.1	20.8	10.9	296	22	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	26.4	13.8	333	25	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
	5.1	32.6	17.1	370	28	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	46.9	24.6	444	32	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	63.8	33.4	519	37	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
381 x 381 Round	2.0	5.2	2.7	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	11.7	6.1	222	14	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
	4.1	20.8	10.9	296	22	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	26.4	13.8	333	25	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
	5.1	32.6	17.1	370	28	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	46.9	24.6	444	32	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	63.8	33.4	519	37	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

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 B1-69 for 'Side A' and 'Side B' detail. See Krueger's selection software for performance data not shown, including octave band data and different core styles.

SHR, 5SHR Performance Data: Horizontal Throw

METRIC DATA: SHR, 5SHR (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 381 Round	2.0	4.9	2.4	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	11.0	5.4	302	14	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
	4.1	19.5	9.5	403	22	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	24.6	12.1	454	25	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
	5.1	30.4	14.9	504	28	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	43.8	21.5	605	33	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
457 x 457 Round	7.1	59.6	29.2	706	37	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
	2.0	5.9	3.4	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	13.3	7.7	56	11	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
	4.1	23.7	13.8	74	19	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	37.0	21.5	93	25	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
	6.1	53.3	31.0	111	30	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
152 Round	6.6	62.6	36.4	120	32	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	72.6	42.2	130	34	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 457 Round	2.0	5.9	3.4	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	13.3	7.7	99	12	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
	4.1	23.7	13.8	132	20	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	37.0	21.5	165	26	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
	6.1	53.3	31.0	198	31	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	72.6	42.2	230	35	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
203 Round	7.6	83.3	48.4	247	37	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
	2.0	5.7	3.3	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	12.9	7.3	154	13	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
	4.1	23.0	13.0	206	21	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	29.1	16.5	231	24	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
	5.1	35.9	20.4	257	27	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
254 Round	6.1	51.7	29.3	309	32	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	70.3	39.9	360	36	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 457 Round	2.0	5.7	3.3	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	12.9	7.3	222	14	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
	4.1	23.0	13.0	296	22	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	29.1	16.5	333	25	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
	5.1	35.9	20.4	370	28	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	51.7	29.3	444	32	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
305 Round	7.1	70.3	39.9	519	37	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
	2.0	5.5	3.0	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	12.4	6.8	302	14	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
	4.1	22.0	12.1	403	22	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	27.9	15.3	454	25	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
	5.1	34.4	18.9	504	28	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
356 Round	6.1	49.5	27.2	605	33	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	67.4	37.0	706	37	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 457 Round	2.0	5.2	2.7	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	11.7	6.1	395	15	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
	4.1	20.8	10.9	527	23	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	26.4	13.8	593	26	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
	5.1	32.6	17.1	658	29	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	46.9	24.6	790	34	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
406 Round	7.1	63.8	33.4	922	38	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 B1-69 for 'Side A' and 'Side B' detail. See Krueger's selection software for performance data not shown, including octave band data and different core styles.

SHR, 5SHR | Flush Face, Round Neck

SHR, 5SHR Suggested Specification & Configuration

SHR, 5SHR

The ceiling diffuser shall be Krueger model SHR (steel) or 5SHR (aluminum) louver face for non-adjustable horizontal discharge airflow. These diffusers shall have a round neck of the sizes and frame styles shown on the drawings 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 (printed or electronic) 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.

1. SERIES: (XXXX)

SHR - Round Neck, Steel Ceiling Diffuser
5SHR - Round Neck, Aluminum Ceiling Diffuser

2. PATTERN: (XX)

01 - 1-Way
02 - 2-Way
03 - 3-Way
04 - 4-Way

3. ROUND NECK: (XX)

6" - 16" in 2" Increments

4. SQUARE NECK: (XX)

If Round Neck =
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
6 - R6 Insulation
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 B1-71 for panel and neck size availability.
Specify Panel 'None' if Frame 21 or 22 has been selected.

SAMPLE CONFIGURATION: SHR - 04 - 10 - 18 - F98 - 24x24 - 08 - 00 - 44