



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.



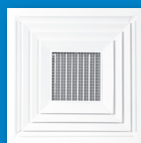
1450A & 51450A
 These supply diffusers feature a round neck, three cones, and adjustable pattern controllers.



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.

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Introduction: SHRV, 5SHRV

The SHRV/5SHRV 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. Each successive louver has vanes mounted in opposite directions behind the blade, which direct the air in opposite directions. This causes the discharged air to become turbulent in the horizontal plane, increasing the induction rate of room air and shortening throws. Because this series has higher discharge face velocities and turbulent horizontal jets, they are an excellent choice for variable air volume systems with above normal temperature differentials. At typical flow rates, isothermal throws of 15 - 25 feet make the SHRV/5SHRV series ideal for mounting centrally in many spaces with high load requirements while providing high mixing rates in the space.

MODELS

SHRV - Steel Louvered Diffuser

5SHRV - Aluminum Louvered Diffuser

FEATURES

- Core is removable from face of diffuser.
- Horizontal lip (1/4") on all sides of the louvered core to provide a horizontal discharge air pattern tight to the ceiling.
- Round duct connections.
- Various discharge air patterns available.
- Maintains horizontal discharge air pattern from maximum to minimum CFM.
- Excellent choice for VAV applications with high mixing rate requirements.
- Mixing vanes.

PANEL SIZES

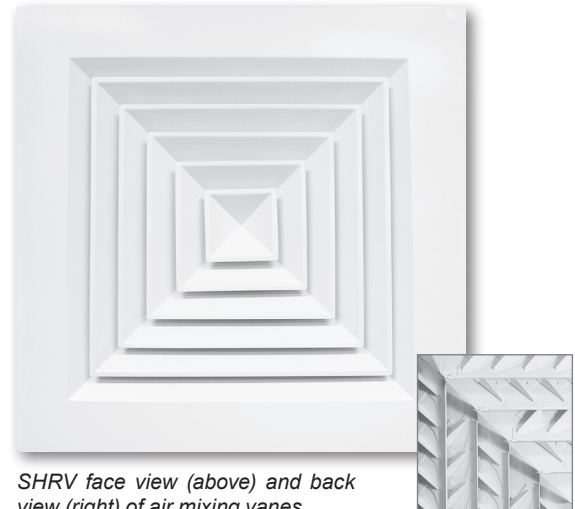
- 12"x12"
- 24"x24"

ACCESSORIES

- Optional straightening grids.
- Optional round damper.

FINISHES

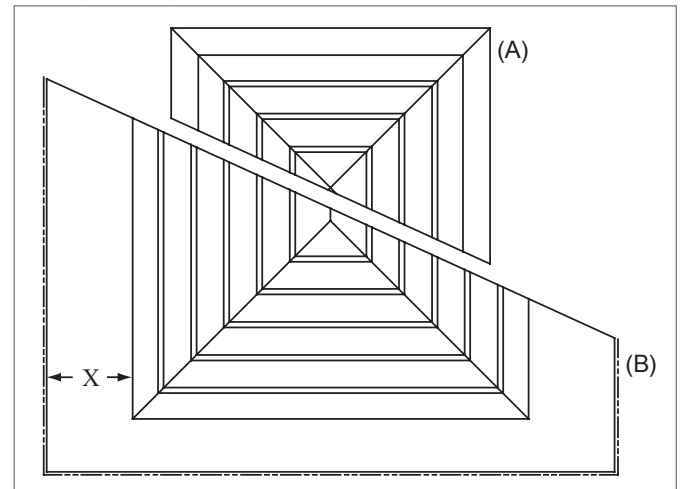
- Standard finish is #44 British White.
- Optional finishes available.



SHRV face view (above) and back view (right) of air mixing vanes.

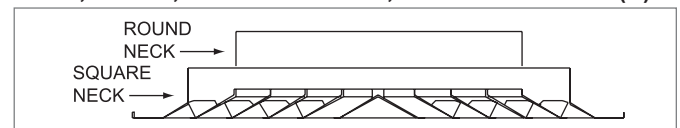
SHRV, 5SHRV Dimensional Information

SHRV, 5SHRV, FACE VIEW

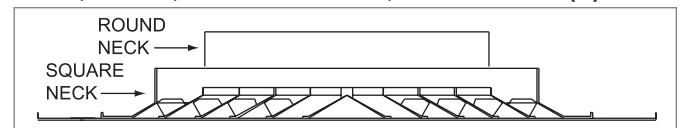


NOTE: Dimension 'X' will vary with neck sizes for Frames 23, 24, 27, and 98.

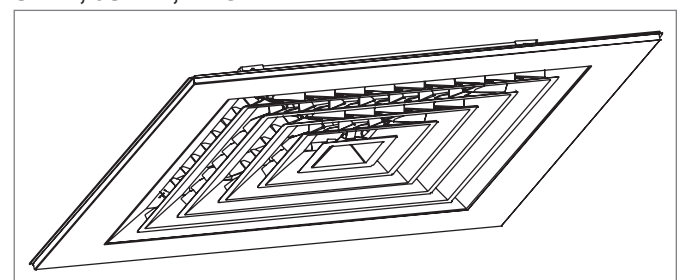
SHRV, 5SHRV, CROSS SECTION, SURFACE MOUNT (A)



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

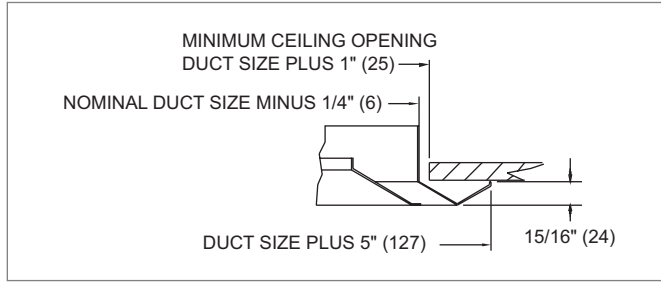


SHRV, 5SHRV, ANGLED FACE VIEW

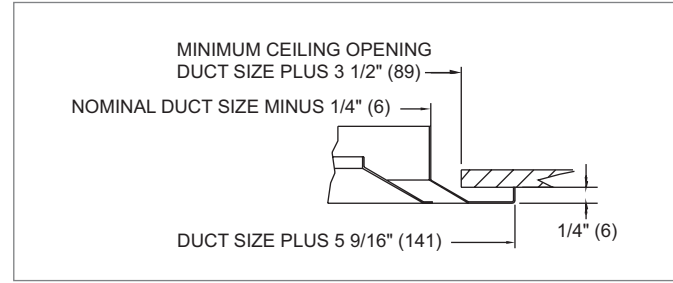


SHRV, 5SHRV Frame Styles

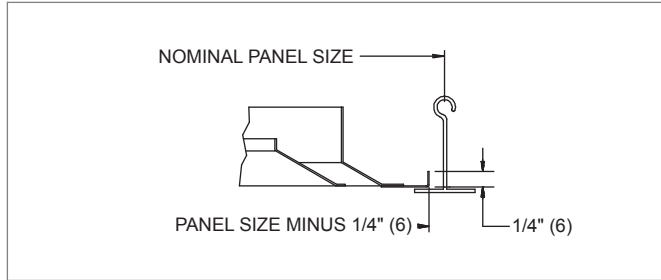
SHRV, 5SHRV, FRAME 21, SURFACE MOUNT, BEVELED



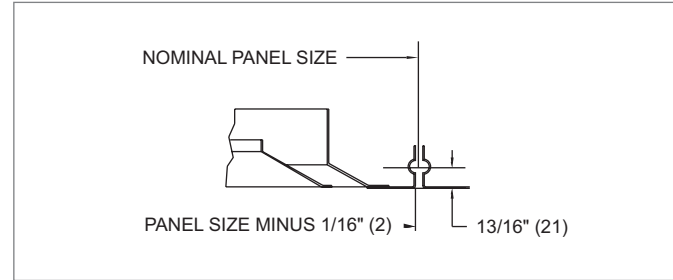
SHRV, 5SHRV, FRAME 22, SURFACE MOUNT, FLAT



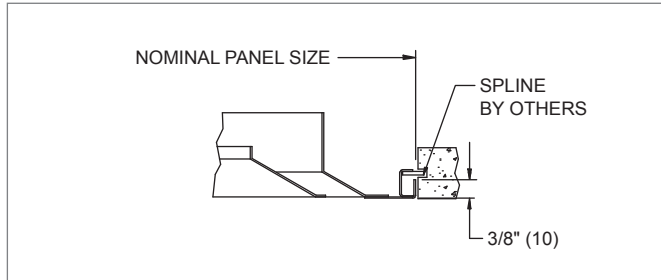
SHRV, 5SHRV, FRAME 23, LAY-IN T-BAR



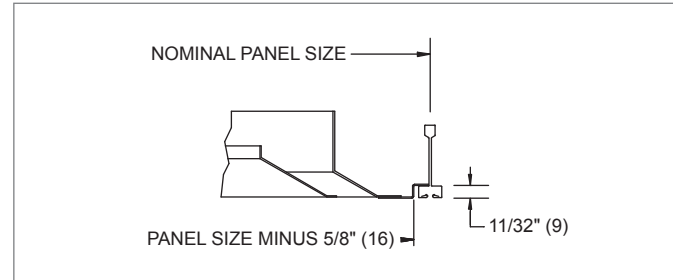
SHRV, 5SHRV, FRAME 24, SNAP-IN T-BAR



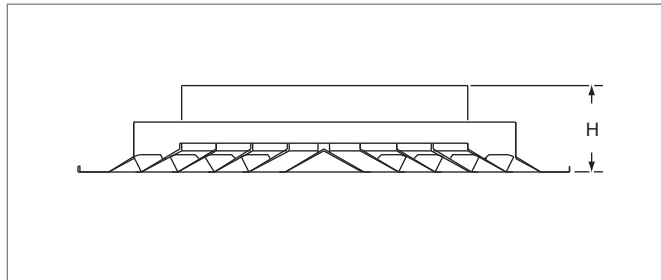
SHRV, 5SHRV, FRAME 27, SPLINE



SHRV, 5SHRV, FRAME 98, NARROW-T



SHRV, 5SHRV, CROSS SECTION, OVERALL HEIGHT



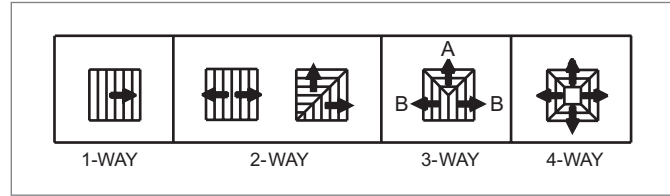
SHRV, 5SHRV, AVAILABLE NECK SIZES

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)
			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)

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

SHRV, 5SHRV Discharge Air Patterns

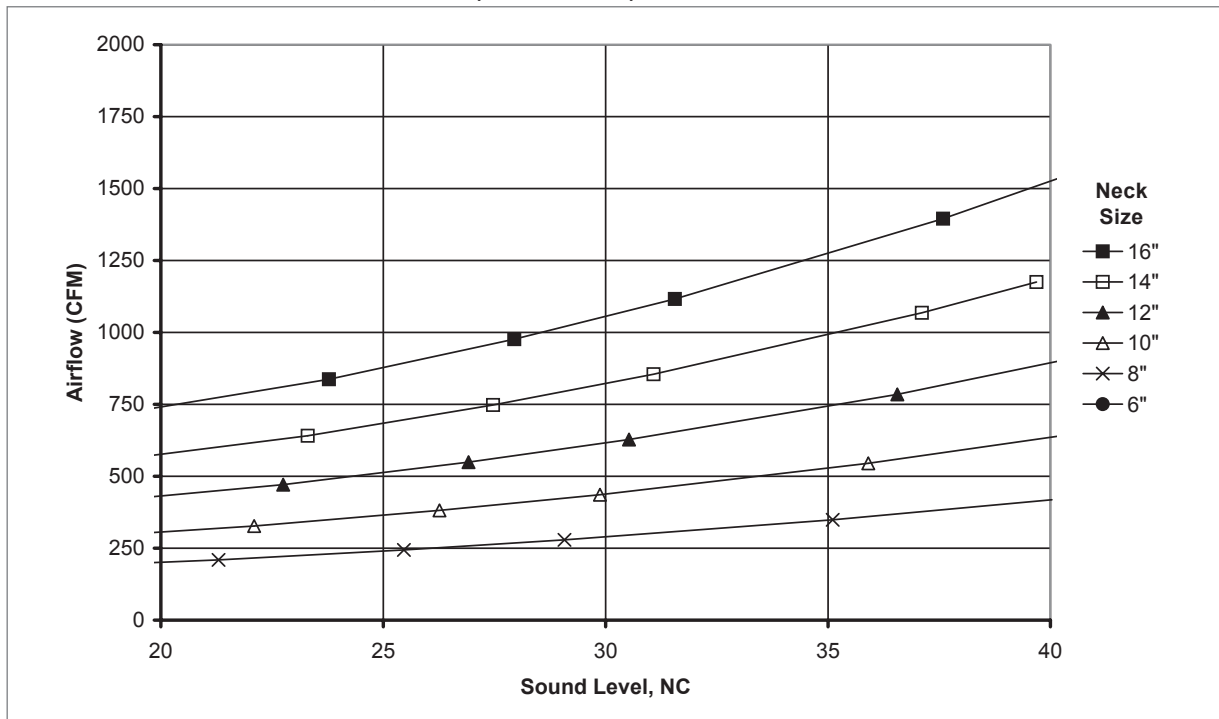
SHRV, 5SHRV, DISCHARGE AIR PATTERNS (FACE VIEW)



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

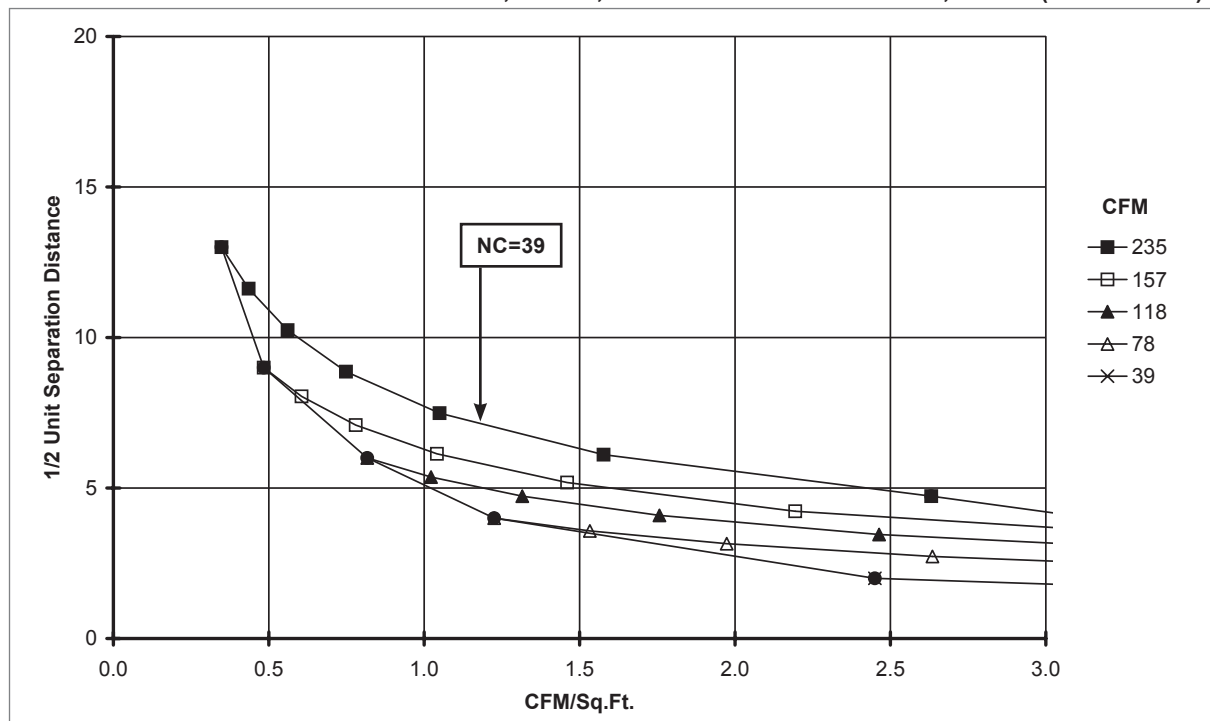
SHRV, 5SHRV Reference Chart

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

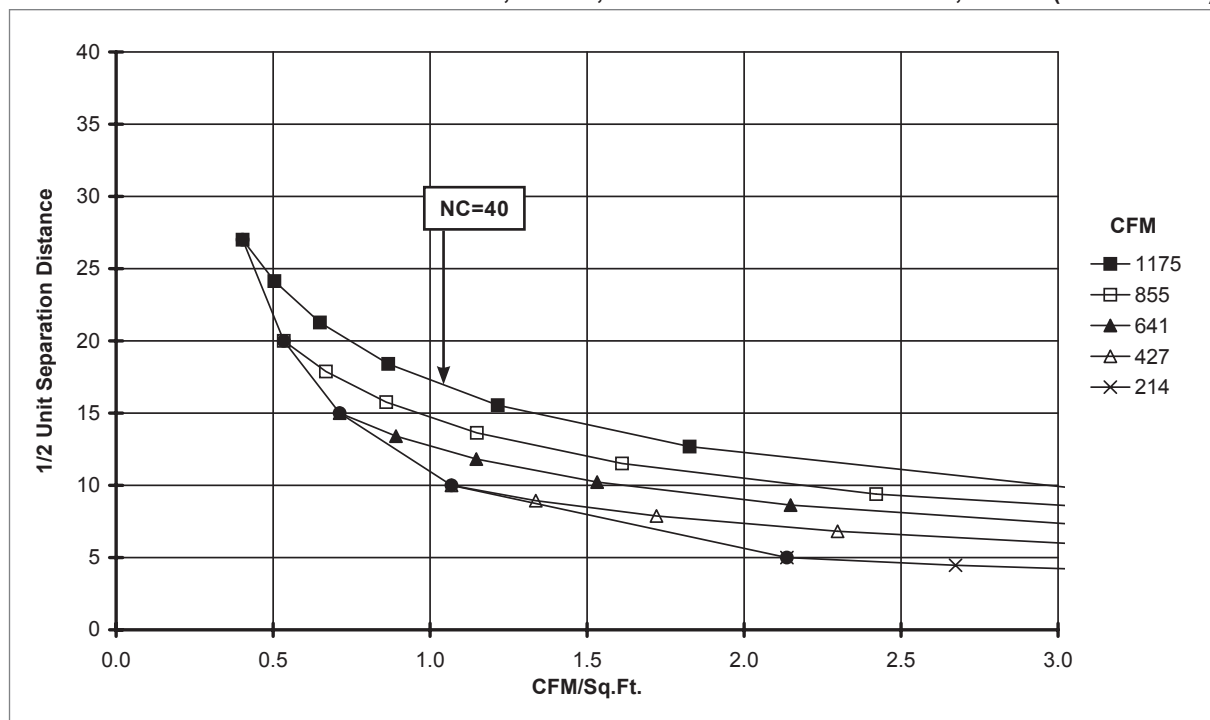


SHRV, 5SHRV Reference Charts: Horizontal Throw

DIFFUSER SPACING FOR 80% ADPI: SHRV, 5SHRV, 18"x18" TO 6" ROUND INLET, 4-WAY (NO DAMPER)



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

LOUVERED FACE DIFFUSERS

SHRV - 5SHRV

SHRV, 5SHRV Performance Data: Horizontal Throw

IP DATA: SHRV, 5SHRV (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	
								Flow	Throw	Flow	Throw
in.	FPM	"WG	"WG	CFM		ft	ft	CFM	ft	CFM	ft
6" x 6" Round	400	0.031	0.021	78	-	5 - 7 - 14	3 - 5 - 9	20	1 - 2 - 4	29	1 - 2 - 4
	600	0.069	0.047	118	20	7 - 11 - 20	5 - 7 - 12	29	2 - 3 - 6	44	2 - 3 - 6
	800	0.123	0.083	157	28	9 - 14 - 23	6 - 9 - 14	39	3 - 4 - 9	59	3 - 4 - 9
	1000	0.193	0.130	196	34	12 - 18 - 26	8 - 11 - 16	49	4 - 5 - 11	74	4 - 5 - 11
	1200	0.277	0.188	235	39	14 - 20 - 28	9 - 12 - 17	59	4 - 6 - 13	88	4 - 6 - 13
	1400	0.378	0.255	275	43	17 - 22 - 30	11 - 13 - 19	69	5 - 7 - 15	103	5 - 7 - 15
9" x 9" Round	400	0.031	0.021	78	-	5 - 7 - 14	3 - 5 - 9	20	1 - 2 - 4	29	1 - 2 - 4
	600	0.069	0.047	118	20	7 - 11 - 20	5 - 7 - 12	29	2 - 3 - 6	44	2 - 3 - 6
	800	0.123	0.083	157	28	9 - 14 - 23	6 - 9 - 14	39	3 - 4 - 9	59	3 - 4 - 9
	1000	0.193	0.130	196	34	12 - 18 - 26	8 - 11 - 16	49	4 - 5 - 11	74	4 - 5 - 11
	1200	0.277	0.188	235	39	14 - 20 - 28	9 - 12 - 17	59	4 - 6 - 13	88	4 - 6 - 13
	1400	0.378	0.255	275	43	17 - 22 - 30	11 - 13 - 19	69	5 - 7 - 15	103	5 - 7 - 15
12" x 12" Round	400	0.030	0.020	140	10	6 - 9 - 19	4 - 6 - 12	35	2 - 3 - 6	52	2 - 3 - 6
	600	0.068	0.045	209	21	9 - 14 - 27	6 - 9 - 16	52	3 - 4 - 9	78	3 - 4 - 9
	800	0.120	0.080	279	29	13 - 19 - 31	8 - 12 - 19	70	4 - 6 - 11	105	4 - 6 - 11
	1000	0.188	0.126	349	35	16 - 24 - 34	10 - 15 - 21	87	5 - 7 - 14	131	5 - 7 - 14
	1200	0.271	0.181	419	40	19 - 27 - 38	12 - 16 - 23	105	6 - 9 - 17	157	6 - 9 - 17
	1400	0.369	0.246	488	44	22 - 29 - 41	14 - 18 - 25	122	7 - 10 - 20	183	7 - 10 - 20
15" x 15" Round	400	0.028	0.018	314	12	9 - 14 - 28	6 - 9 - 18	78	3 - 4 - 9	118	3 - 4 - 9
	600	0.063	0.040	471	23	14 - 21 - 40	9 - 14 - 25	118	4 - 6 - 13	177	4 - 6 - 13
	800	0.112	0.072	628	31	19 - 28 - 46	12 - 18 - 28	157	6 - 9 - 17	235	6 - 9 - 17
	900	0.142	0.091	706	34	21 - 32 - 49	14 - 21 - 30	177	6 - 10 - 19	265	6 - 10 - 19
	1000	0.175	0.112	785	37	24 - 35 - 52	15 - 22 - 32	196	7 - 11 - 21	294	7 - 11 - 21
	1200	0.252	0.162	942	41	28 - 40 - 56	18 - 25 - 35	235	9 - 13 - 26	353	9 - 13 - 26
18" x 18" Round	400	0.028	0.018	314	12	9 - 14 - 28	6 - 9 - 18	78	3 - 4 - 9	118	3 - 4 - 9
	600	0.063	0.040	471	23	14 - 21 - 40	9 - 14 - 25	118	4 - 6 - 13	177	4 - 6 - 13
	800	0.112	0.072	628	31	19 - 28 - 46	12 - 18 - 28	157	6 - 9 - 17	235	6 - 9 - 17
	900	0.142	0.091	706	34	21 - 32 - 49	14 - 21 - 30	177	6 - 10 - 19	265	6 - 10 - 19
	1000	0.175	0.112	785	37	24 - 35 - 52	15 - 22 - 32	196	7 - 11 - 21	294	7 - 11 - 21
	1200	0.252	0.162	942	41	28 - 40 - 56	18 - 25 - 35	235	9 - 13 - 26	353	9 - 13 - 26
24" x 24" Round	400	0.028	0.018	314	12	9 - 14 - 28	6 - 9 - 18	78	3 - 4 - 9	118	3 - 4 - 9
	600	0.063	0.040	471	23	14 - 21 - 40	9 - 14 - 25	118	4 - 6 - 13	177	4 - 6 - 13
	800	0.112	0.072	628	31	19 - 28 - 46	12 - 18 - 28	157	6 - 9 - 17	235	6 - 9 - 17
	900	0.142	0.091	706	34	21 - 32 - 49	14 - 21 - 30	177	6 - 10 - 19	265	6 - 10 - 19
	1000	0.175	0.112	785	37	24 - 35 - 52	15 - 22 - 32	196	7 - 11 - 21	294	7 - 11 - 21
	1200	0.252	0.162	942	41	28 - 40 - 56	18 - 25 - 35	235	9 - 13 - 26	353	9 - 13 - 26

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)/2] CFM per side. The throw values given for 2-Throw is for [(Total CFM)/4] CFM per side. The throw values given for 4-Throw is for [(Total CFM)/4] CFM per side. Reference page B1-78 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.

SHRV, 5SHRV Performance Data: Horizontal Throw

IP DATA: SHRV, 5SHRV (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" Round	400	0.027	0.017	427	12	11 - 17 - 33	7 - 11 - 21	107	3 - 5 - 10	160	3 - 5 - 10	3 - 5 - 10
	600	0.060	0.037	641	23	17 - 25 - 47	11 - 16 - 29	160	5 - 7 - 15	240	5 - 7 - 15	5 - 7 - 15
	800	0.106	0.066	855	31	22 - 33 - 54	14 - 21 - 33	214	7 - 10 - 20	320	7 - 10 - 20	7 - 10 - 20
	900	0.135	0.084	961	34	25 - 37 - 57	16 - 24 - 35	240	7 - 11 - 22	361	7 - 11 - 22	7 - 11 - 22
	1000	0.166	0.104	1068	37	28 - 41 - 60	18 - 26 - 37	267	8 - 12 - 25	401	8 - 12 - 25	8 - 12 - 25
	1200	0.239	0.149	1282	42	33 - 47 - 66	21 - 29 - 41	320	10 - 15 - 30	481	10 - 15 - 30	10 - 15 - 30
14" Round	1400	0.326	0.203	1495	46	39 - 50 - 71	25 - 31 - 44	374	12 - 17 - 35	561	12 - 17 - 35	12 - 17 - 35
	400	0.031	0.021	78	-	5 - 7 - 14	3 - 5 - 9	20	1 - 2 - 4	29	1 - 2 - 4	1 - 2 - 4
	600	0.069	0.047	118	20	7 - 11 - 20	5 - 7 - 12	29	2 - 3 - 6	44	2 - 3 - 6	2 - 3 - 6
	800	0.123	0.083	157	28	9 - 14 - 23	6 - 9 - 14	39	3 - 4 - 9	59	3 - 4 - 9	3 - 4 - 9
	1000	0.193	0.130	196	34	12 - 18 - 26	8 - 11 - 16	49	4 - 5 - 11	74	4 - 5 - 11	4 - 5 - 11
	1200	0.277	0.188	235	39	14 - 20 - 28	9 - 12 - 17	59	4 - 6 - 13	88	4 - 6 - 13	4 - 6 - 13
6" Round	1300	0.326	0.220	255	41	15 - 21 - 29	10 - 13 - 18	64	5 - 7 - 14	96	5 - 7 - 14	5 - 7 - 14
	1400	0.378	0.255	275	43	17 - 22 - 30	11 - 13 - 19	69	5 - 7 - 15	103	5 - 7 - 15	5 - 7 - 15
	400	0.031	0.021	140	10	6 - 9 - 19	4 - 6 - 12	35	2 - 3 - 6	52	2 - 3 - 6	2 - 3 - 6
	600	0.069	0.047	209	21	9 - 14 - 27	6 - 9 - 16	52	3 - 4 - 9	78	3 - 4 - 9	3 - 4 - 9
	800	0.123	0.083	279	29	13 - 19 - 31	8 - 12 - 19	70	4 - 6 - 11	105	4 - 6 - 11	4 - 6 - 11
	1000	0.193	0.130	349	35	16 - 24 - 34	10 - 15 - 21	87	5 - 7 - 14	131	5 - 7 - 14	5 - 7 - 14
8" Round	1200	0.277	0.188	419	40	19 - 27 - 38	12 - 16 - 23	105	6 - 9 - 17	157	6 - 9 - 17	6 - 9 - 17
	1400	0.378	0.255	488	44	22 - 29 - 41	14 - 18 - 25	122	7 - 10 - 20	183	7 - 10 - 20	7 - 10 - 20
	1500	0.434	0.293	523	46	24 - 30 - 42	15 - 18 - 26	131	7 - 11 - 21	196	7 - 11 - 21	7 - 11 - 21
	400	0.030	0.020	218	11	8 - 12 - 24	5 - 8 - 15	55	2 - 4 - 7	82	2 - 4 - 7	2 - 4 - 7
	600	0.068	0.045	327	22	12 - 18 - 33	8 - 12 - 20	82	4 - 5 - 11	123	4 - 5 - 11	4 - 5 - 11
	800	0.120	0.080	436	30	16 - 24 - 38	10 - 15 - 24	109	5 - 7 - 14	164	5 - 7 - 14	5 - 7 - 14
10" Round	900	0.152	0.102	491	33	18 - 27 - 41	12 - 17 - 25	123	5 - 8 - 16	184	5 - 8 - 16	5 - 8 - 16
	1000	0.188	0.126	545	36	20 - 30 - 43	13 - 19 - 26	136	6 - 9 - 18	204	6 - 9 - 18	6 - 9 - 18
	1200	0.271	0.181	654	41	24 - 33 - 47	15 - 20 - 29	164	7 - 11 - 21	245	7 - 11 - 21	7 - 11 - 21
	1400	0.369	0.246	763	45	28 - 36 - 51	18 - 22 - 31	191	8 - 12 - 25	286	8 - 12 - 25	8 - 12 - 25
	400	0.030	0.020	314	12	9 - 14 - 28	6 - 9 - 18	78	3 - 4 - 9	118	3 - 4 - 9	3 - 4 - 9
	600	0.068	0.045	471	23	14 - 21 - 40	9 - 14 - 25	118	4 - 6 - 13	177	4 - 6 - 13	4 - 6 - 13
12" Round	800	0.120	0.080	628	31	19 - 28 - 46	12 - 18 - 28	157	6 - 9 - 17	235	6 - 9 - 17	6 - 9 - 17
	900	0.152	0.102	706	34	21 - 32 - 49	14 - 21 - 30	177	6 - 10 - 19	265	6 - 10 - 19	6 - 10 - 19
	1000	0.188	0.126	785	37	24 - 35 - 52	15 - 22 - 32	196	7 - 11 - 21	294	7 - 11 - 21	7 - 11 - 21
	1200	0.271	0.181	942	41	28 - 40 - 56	18 - 25 - 35	235	9 - 13 - 26	353	9 - 13 - 26	9 - 13 - 26
	1400	0.369	0.246	1099	46	33 - 43 - 61	21 - 27 - 38	275	10 - 15 - 30	412	10 - 15 - 30	10 - 15 - 30
	400	0.029	0.019	427	12	11 - 17 - 33	7 - 11 - 21	107	3 - 5 - 10	160	3 - 5 - 10	3 - 5 - 10
14" Round	600	0.066	0.043	641	23	17 - 25 - 47	11 - 16 - 29	160	5 - 7 - 15	240	5 - 7 - 15	5 - 7 - 15
	800	0.117	0.077	855	31	22 - 33 - 54	14 - 21 - 33	214	7 - 10 - 20	320	7 - 10 - 20	7 - 10 - 20
	900	0.147	0.097	961	34	25 - 37 - 57	16 - 24 - 35	240	7 - 11 - 22	361	7 - 11 - 22	7 - 11 - 22
	1000	0.182	0.120	1068	37	28 - 41 - 60	18 - 26 - 37	267	8 - 12 - 25	401	8 - 12 - 25	8 - 12 - 25
	1200	0.262	0.172	1282	42	33 - 47 - 66	21 - 29 - 41	320	10 - 15 - 30	481	10 - 15 - 30	10 - 15 - 30
	1400	0.357	0.235	1495	46	39 - 50 - 71	25 - 31 - 44	374	12 - 17 - 35	561	12 - 17 - 35	12 - 17 - 35
16" Round	400	0.028	0.018	558	13	13 - 19 - 38	8 - 12 - 25	140	4 - 6 - 11	209	4 - 6 - 11	4 - 6 - 11
	600	0.063	0.040	837	24	19 - 28 - 53	12 - 18 - 33	209	6 - 9 - 17	314	6 - 9 - 17	6 - 9 - 17
	800	0.112	0.072	1116	32	25 - 38 - 61	16 - 25 - 38	279	8 - 11 - 23	419	8 - 11 - 23	8 - 11 - 23
	900	0.142	0.091	1256	35	28 - 43 - 65	18 - 28 - 40	314	9 - 13 - 26	471	9 - 13 - 26	9 - 13 - 26
	1000	0.175	0.112	1395	38	31 - 47 - 69	20 - 30 - 42	349	9 - 14 - 28	523	9 - 14 - 28	9 - 14 - 28
	1200	0.252	0.162	1674	43	38 - 53 - 75	25 - 33 - 46	419	11 - 17 - 34	628	11 - 17 - 34	11 - 17 - 34
	1400	0.343	0.220	1953	47	44 - 57 - 81	29 - 35 - 50	488	13 - 20 - 40	732	13 - 20 - 40	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 B1-78 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.

SHRV, 5SHRV Performance Data: Horizontal Throw

METRIC DATA: SHRV, 5SHRV (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 L/s	Throw m	Flow L/s	Throw m	m
152 x 152 Round	2.0	7.7	5.2	37	-	1.4 - 2.2 - 4.3	0.9 - 1.4 - 2.8	9	0.4 - 0.6 - 1.3	14	0.4 - 0.6 - 1.3	0.4 - 0.6 - 1.3
	3.0	17.3	11.7	56	20	2.2 - 3.2 - 6.1	1.4 - 2.1 - 3.7	14	0.6 - 1.0 - 1.9	21	0.6 - 1.0 - 1.9	0.6 - 1.0 - 1.9
	4.1	30.7	20.8	74	28	2.9 - 4.3 - 7.0	1.9 - 2.8 - 4.3	19	0.9 - 1.3 - 2.6	28	0.9 - 1.3 - 2.6	0.9 - 1.3 - 2.6
	5.1	48.0	32.5	93	34	3.6 - 5.4 - 7.8	2.3 - 3.4 - 4.8	23	1.1 - 1.6 - 3.2	35	1.1 - 1.6 - 3.2	1.1 - 1.6 - 3.2
	6.1	69.1	46.7	111	39	4.3 - 6.1 - 8.6	2.8 - 3.7 - 5.3	28	1.3 - 1.9 - 3.9	42	1.3 - 1.9 - 3.9	1.3 - 1.9 - 3.9
	7.1	94.0	63.6	130	43	5.0 - 6.5 - 9.3	3.3 - 4.0 - 5.7	32	1.5 - 2.3 - 4.5	49	1.5 - 2.3 - 4.5	1.5 - 2.3 - 4.5
229 x 229 Round	8.1	122.8	83.1	148	47	5.7 - 7.0 - 9.9	3.5 - 4.3 - 6.1	37	1.7 - 2.6 - 5.2	56	1.7 - 2.6 - 5.2	1.7 - 2.6 - 5.2
	2.0	7.7	5.2	37	-	1.4 - 2.2 - 4.3	0.9 - 1.4 - 2.8	9	0.4 - 0.6 - 1.3	14	0.4 - 0.6 - 1.3	0.4 - 0.6 - 1.3
	3.0	17.3	11.7	56	20	2.2 - 3.2 - 6.1	1.4 - 2.1 - 3.7	14	0.6 - 1.0 - 1.9	21	0.6 - 1.0 - 1.9	0.6 - 1.0 - 1.9
	4.1	30.7	20.8	74	28	2.9 - 4.3 - 7.0	1.9 - 2.8 - 4.3	19	0.9 - 1.3 - 2.6	28	0.9 - 1.3 - 2.6	0.9 - 1.3 - 2.6
	5.1	48.0	32.5	93	34	3.6 - 5.4 - 7.8	2.3 - 3.4 - 4.8	23	1.1 - 1.6 - 3.2	35	1.1 - 1.6 - 3.2	1.1 - 1.6 - 3.2
	6.1	69.1	46.7	111	39	4.3 - 6.1 - 8.6	2.8 - 3.7 - 5.3	28	1.3 - 1.9 - 3.9	42	1.3 - 1.9 - 3.9	1.3 - 1.9 - 3.9
229 x 203 Round	7.1	94.0	63.6	130	43	5.0 - 6.5 - 9.3	3.3 - 4.0 - 5.7	32	1.5 - 2.3 - 4.5	49	1.5 - 2.3 - 4.5	1.5 - 2.3 - 4.5
	8.1	122.8	83.1	148	47	5.7 - 7.0 - 9.9	3.5 - 4.3 - 6.1	37	1.7 - 2.6 - 5.2	56	1.7 - 2.6 - 5.2	1.7 - 2.6 - 5.2
	2.0	7.5	5.0	66	10	1.9 - 2.9 - 5.7	1.2 - 1.9 - 3.7	16	0.6 - 0.9 - 1.7	25	0.6 - 0.9 - 1.7	0.6 - 0.9 - 1.7
	3.0	16.9	11.3	99	21	2.9 - 4.3 - 8.1	1.9 - 2.8 - 5.0	25	0.9 - 1.3 - 2.6	37	0.9 - 1.3 - 2.6	0.9 - 1.3 - 2.6
	4.1	30.0	20.0	132	29	3.8 - 5.7 - 9.3	2.5 - 3.7 - 5.7	33	1.1 - 1.7 - 3.4	49	1.1 - 1.7 - 3.4	1.1 - 1.7 - 3.4
	5.1	46.8	31.3	165	35	4.8 - 7.2 - 10.4	3.1 - 4.5 - 6.4	41	1.4 - 2.2 - 4.3	62	1.4 - 2.2 - 4.3	1.4 - 2.2 - 4.3
305 x 305 Round	6.1	67.4	45.1	198	40	5.7 - 8.1 - 11.4	3.7 - 5.0 - 7.0	49	1.7 - 2.6 - 5.2	74	1.7 - 2.6 - 5.2	1.7 - 2.6 - 5.2
	7.1	91.8	61.3	230	44	6.7 - 8.7 - 12.4	4.4 - 5.4 - 7.6	58	2.0 - 3.0 - 6.0	86	2.0 - 3.0 - 6.0	2.0 - 3.0 - 6.0
	8.1	119.9	80.1	263	48	7.6 - 9.3 - 13.2	4.7 - 5.7 - 8.1	66	2.3 - 3.4 - 6.9	99	2.3 - 3.4 - 6.9	2.3 - 3.4 - 6.9
	2.0	7.5	5.0	66	10	1.9 - 2.9 - 5.7	1.2 - 1.9 - 3.7	16	0.6 - 0.9 - 1.7	25	0.6 - 0.9 - 1.7	0.6 - 0.9 - 1.7
	3.0	16.9	11.3	99	21	2.9 - 4.3 - 8.1	1.9 - 2.8 - 5.0	25	0.9 - 1.3 - 2.6	37	0.9 - 1.3 - 2.6	0.9 - 1.3 - 2.6
	4.1	30.0	20.0	132	29	3.8 - 5.7 - 9.3	2.5 - 3.7 - 5.7	33	1.1 - 1.7 - 3.4	49	1.1 - 1.7 - 3.4	1.1 - 1.7 - 3.4
305 x 254 Round	5.1	46.8	31.3	165	35	4.8 - 7.2 - 10.4	3.1 - 4.5 - 6.4	41	1.4 - 2.2 - 4.3	62	1.4 - 2.2 - 4.3	1.4 - 2.2 - 4.3
	6.1	67.4	45.1	198	40	5.7 - 8.1 - 11.4	3.7 - 5.0 - 7.0	49	1.7 - 2.6 - 5.2	74	1.7 - 2.6 - 5.2	1.7 - 2.6 - 5.2
	7.1	91.8	61.3	230	44	6.7 - 8.7 - 12.4	4.4 - 5.4 - 7.6	58	2.0 - 3.0 - 6.0	86	2.0 - 3.0 - 6.0	2.0 - 3.0 - 6.0
	7.6	105.3	70.4	247	46	7.2 - 9.0 - 12.8	4.5 - 5.6 - 7.9	62	2.2 - 3.2 - 6.5	93	2.2 - 3.2 - 6.5	2.2 - 3.2 - 6.5
	2.0	7.3	4.8	103	11	2.4 - 3.6 - 7.2	1.6 - 2.3 - 4.7	26	0.7 - 1.1 - 2.2	39	0.7 - 1.1 - 2.2	0.7 - 1.1 - 2.2
	3.0	16.3	10.7	154	22	3.6 - 5.4 - 10.1	2.3 - 3.5 - 6.2	39	1.1 - 1.6 - 3.2	58	1.1 - 1.6 - 3.2	1.1 - 1.6 - 3.2
381 x 381 Round	4.1	29.0	19.1	206	30	4.8 - 7.2 - 11.7	3.1 - 4.7 - 7.2	51	1.4 - 2.2 - 4.3	77	1.4 - 2.2 - 4.3	1.4 - 2.2 - 4.3
	4.6	36.7	24.1	231	33	5.4 - 8.1 - 12.4	3.5 - 5.3 - 7.6	58	1.6 - 2.4 - 4.8	87	1.6 - 2.4 - 4.8	1.6 - 2.4 - 4.8
	5.1	45.3	29.8	257	36	6.0 - 9.0 - 13.0	3.9 - 5.7 - 8.0	64	1.8 - 2.7 - 5.4	96	1.8 - 2.7 - 5.4	1.8 - 2.7 - 5.4
	6.1	65.3	42.9	309	41	7.2 - 10.1 - 14.3	4.7 - 6.2 - 8.8	77	2.2 - 3.2 - 6.5	116	2.2 - 3.2 - 6.5	2.2 - 3.2 - 6.5
	7.1	88.9	58.4	360	45	8.4 - 10.9 - 15.4	5.4 - 6.7 - 9.5	90	2.5 - 3.8 - 7.5	135	2.5 - 3.8 - 7.5	2.5 - 3.8 - 7.5
	2.0	7.0	4.5	148	12	2.9 - 4.3 - 8.6	1.9 - 2.8 - 5.6	37	0.9 - 1.3 - 2.6	56	0.9 - 1.3 - 2.6	0.9 - 1.3 - 2.6
381 x 305 Round	3.0	15.7	10.1	222	23	4.3 - 6.5 - 12.1	2.8 - 4.2 - 7.5	56	1.3 - 1.9 - 3.9	83	1.3 - 1.9 - 3.9	1.3 - 1.9 - 3.9
	4.1	27.8	17.9	296	31	5.7 - 8.6 - 14.0	3.7 - 5.6 - 8.6	74	1.7 - 2.6 - 5.2	111	1.7 - 2.6 - 5.2	1.7 - 2.6 - 5.2
	4.6	35.2	22.7	333	34	6.5 - 9.7 - 14.9	4.2 - 6.3 - 9.1	83	1.9 - 2.9 - 5.8	125	1.9 - 2.9 - 5.8	1.9 - 2.9 - 5.8
	5.1	43.5	28.0	370	37	7.2 - 10.8 - 15.7	4.7 - 6.8 - 9.6	93	2.2 - 3.2 - 6.5	139	2.2 - 3.2 - 6.5	2.2 - 3.2 - 6.5
	6.1	62.7	40.3	444	41	8.6 - 12.1 - 17.2	5.6 - 7.5 - 10.6	111	2.6 - 3.9 - 7.8	167	2.6 - 3.9 - 7.8	2.6 - 3.9 - 7.8
	7.1	85.3	54.9	519	46	10.1 - 13.1 - 18.5	6.5 - 8.1 - 11.4	130	3.0 - 4.5 - 9.0	194	3.0 - 4.5 - 9.0	3.0 - 4.5 - 9.0

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 B1-78 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.

SHRV, 5SHRV Performance Data: Horizontal Throw

METRIC DATA: SHRV, 5SHRV (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 L/s	Throw m	Flow L/s	Throw m	m
381 x 381 Round	2.0	6.6	4.1	202	12	3.4 - 5.0 - 10.1	2.2 - 3.3 - 6.5	50	1.0 - 1.5 - 3.0	76	1.0 - 1.5 - 3.0	1.0 - 1.5 - 3.0
	3.0	14.9	9.3	302	23	5.0 - 7.5 - 14.1	3.3 - 4.9 - 8.7	76	1.5 - 2.3 - 4.5	113	1.5 - 2.3 - 4.5	1.5 - 2.3 - 4.5
	4.1	26.5	16.5	403	31	6.7 - 10.1 - 16.3	4.4 - 6.5 - 10.1	101	2.0 - 3.0 - 6.0	151	2.0 - 3.0 - 6.0	2.0 - 3.0 - 6.0
	4.6	33.5	20.9	454	34	7.5 - 11.3 - 17.3	4.9 - 7.4 - 10.7	113	2.3 - 3.4 - 6.8	170	2.3 - 3.4 - 6.8	2.3 - 3.4 - 6.8
	5.1	41.4	25.8	504	37	8.4 - 12.6 - 18.3	5.4 - 7.9 - 11.2	126	2.5 - 3.8 - 7.5	189	2.5 - 3.8 - 7.5	2.5 - 3.8 - 7.5
457 x 457 Round	6.1	59.6	37.2	605	42	10.1 - 14.1 - 20.0	6.5 - 8.7 - 12.3	151	3.0 - 4.5 - 9.0	227	3.0 - 4.5 - 9.0	3.0 - 4.5 - 9.0
	7.1	81.1	50.6	706	46	11.7 - 15.3 - 21.6	7.6 - 9.4 - 13.3	176	3.5 - 5.3 - 10.6	265	3.5 - 5.3 - 10.6	3.5 - 5.3 - 10.6
	2.0	7.7	5.2	37	-	1.4 - 2.2 - 4.3	0.9 - 1.4 - 2.8	9	0.4 - 0.6 - 1.3	14	0.4 - 0.6 - 1.3	0.4 - 0.6 - 1.3
	3.0	17.3	11.7	56	20	2.2 - 3.2 - 6.1	1.4 - 2.1 - 3.7	14	0.6 - 1.0 - 1.9	21	0.6 - 1.0 - 1.9	0.6 - 1.0 - 1.9
	4.1	30.7	20.8	74	28	2.9 - 4.3 - 7.0	1.9 - 2.8 - 4.3	19	0.9 - 1.3 - 2.6	28	0.9 - 1.3 - 2.6	0.9 - 1.3 - 2.6
152 Round	5.1	48.0	32.5	93	34	3.6 - 5.4 - 7.8	2.3 - 3.4 - 4.8	23	1.1 - 1.6 - 3.2	35	1.1 - 1.6 - 3.2	1.1 - 1.6 - 3.2
	6.1	69.1	46.7	111	39	4.3 - 6.1 - 8.6	2.8 - 3.7 - 5.3	28	1.3 - 1.9 - 3.9	42	1.3 - 1.9 - 3.9	1.3 - 1.9 - 3.9
	6.6	81.1	54.9	120	41	4.7 - 6.3 - 8.9	3.0 - 3.9 - 5.5	30	1.4 - 2.1 - 4.2	45	1.4 - 2.1 - 4.2	1.4 - 2.1 - 4.2
	7.1	94.0	63.6	130	43	5.0 - 6.5 - 9.3	3.3 - 4.0 - 5.7	32	1.5 - 2.3 - 4.5	49	1.5 - 2.3 - 4.5	1.5 - 2.3 - 4.5
	2.0	7.7	5.2	66	10	1.9 - 2.9 - 5.7	1.2 - 1.9 - 3.7	16	0.6 - 0.9 - 1.7	25	0.6 - 0.9 - 1.7	0.6 - 0.9 - 1.7
203 Round	3.0	17.3	11.7	99	21	2.9 - 4.3 - 8.1	1.9 - 2.8 - 5.0	25	0.9 - 1.3 - 2.6	37	0.9 - 1.3 - 2.6	0.9 - 1.3 - 2.6
	4.1	30.7	20.8	132	29	3.8 - 5.7 - 9.3	2.5 - 3.7 - 5.7	33	1.1 - 1.7 - 3.4	49	1.1 - 1.7 - 3.4	1.1 - 1.7 - 3.4
	5.1	48.0	32.5	165	35	4.8 - 7.2 - 10.4	3.1 - 4.5 - 6.4	41	1.4 - 2.2 - 4.3	62	1.4 - 2.2 - 4.3	1.4 - 2.2 - 4.3
	6.1	69.1	46.7	198	40	5.7 - 8.1 - 11.4	3.7 - 5.0 - 7.0	49	1.7 - 2.6 - 5.2	74	1.7 - 2.6 - 5.2	1.7 - 2.6 - 5.2
	7.1	94.0	63.6	230	44	6.7 - 8.7 - 12.4	4.4 - 5.4 - 7.6	58	2.0 - 3.0 - 6.0	86	2.0 - 3.0 - 6.0	2.0 - 3.0 - 6.0
254 Round	7.6	108.0	73.0	247	46	7.2 - 9.0 - 12.8	4.5 - 5.6 - 7.9	62	2.2 - 3.2 - 6.5	93	2.2 - 3.2 - 6.5	2.2 - 3.2 - 6.5
	2.0	7.5	5.0	103	11	2.4 - 3.6 - 7.2	1.6 - 2.3 - 4.7	26	0.7 - 1.1 - 2.2	39	0.7 - 1.1 - 2.2	0.7 - 1.1 - 2.2
	3.0	16.9	11.3	154	22	3.6 - 5.4 - 10.1	2.3 - 3.5 - 6.2	39	1.1 - 1.6 - 3.2	58	1.1 - 1.6 - 3.2	1.1 - 1.6 - 3.2
	4.1	30.0	20.0	206	30	4.8 - 7.2 - 11.7	3.1 - 4.7 - 7.2	51	1.4 - 2.2 - 4.3	77	1.4 - 2.2 - 4.3	1.4 - 2.2 - 4.3
	4.6	37.9	25.4	231	33	5.4 - 8.1 - 12.4	3.5 - 5.3 - 7.6	58	1.6 - 2.4 - 4.8	87	1.6 - 2.4 - 4.8	1.6 - 2.4 - 4.8
305 Round	5.1	46.8	31.3	257	36	6.0 - 9.0 - 13.0	3.9 - 5.7 - 8.0	64	1.8 - 2.7 - 5.4	96	1.8 - 2.7 - 5.4	1.8 - 2.7 - 5.4
	6.1	67.4	45.1	309	41	7.2 - 10.1 - 14.3	4.7 - 6.2 - 8.8	77	2.2 - 3.2 - 6.5	116	2.2 - 3.2 - 6.5	2.2 - 3.2 - 6.5
	7.1	91.8	61.3	360	45	8.4 - 10.9 - 15.4	5.4 - 6.7 - 9.5	90	2.5 - 3.8 - 7.5	135	2.5 - 3.8 - 7.5	2.5 - 3.8 - 7.5
	2.0	7.5	5.0	148	12	2.9 - 4.3 - 8.6	1.9 - 2.8 - 5.6	37	0.9 - 1.3 - 2.6	56	0.9 - 1.3 - 2.6	0.9 - 1.3 - 2.6
	3.0	16.9	11.3	222	23	4.3 - 6.5 - 12.1	2.8 - 4.2 - 7.5	56	1.3 - 1.9 - 3.9	83	1.3 - 1.9 - 3.9	1.3 - 1.9 - 3.9
356 Round	4.1	30.0	20.0	296	31	5.7 - 8.6 - 14.0	3.7 - 5.6 - 8.6	74	1.7 - 2.6 - 5.2	111	1.7 - 2.6 - 5.2	1.7 - 2.6 - 5.2
	4.6	37.9	25.4	333	34	6.5 - 9.7 - 14.9	4.2 - 6.3 - 9.1	83	1.9 - 2.9 - 5.8	125	1.9 - 2.9 - 5.8	1.9 - 2.9 - 5.8
	5.1	46.8	31.3	370	37	7.2 - 10.8 - 15.7	4.7 - 6.8 - 9.6	93	2.2 - 3.2 - 6.5	139	2.2 - 3.2 - 6.5	2.2 - 3.2 - 6.5
	6.1	67.4	45.1	444	41	8.6 - 12.1 - 17.2	5.6 - 7.5 - 10.6	111	2.6 - 3.9 - 7.8	167	2.6 - 3.9 - 7.8	2.6 - 3.9 - 7.8
	7.1	91.8	61.3	519	46	10.1 - 13.1 - 18.5	6.5 - 8.1 - 11.4	130	3.0 - 4.5 - 9.0	194	3.0 - 4.5 - 9.0	3.0 - 4.5 - 9.0
406 Round	2.0	7.3	4.8	202	12	3.4 - 5.0 - 10.1	2.2 - 3.3 - 6.5	50	1.0 - 1.5 - 3.0	76	1.0 - 1.5 - 3.0	1.0 - 1.5 - 3.0
	3.0	16.3	10.7	302	23	5.0 - 7.5 - 14.1	3.3 - 4.9 - 8.7	76	1.5 - 2.3 - 4.5	113	1.5 - 2.3 - 4.5	1.5 - 2.3 - 4.5
	4.1	29.0	19.1	403	31	6.7 - 10.1 - 16.3	4.4 - 6.5 - 10.1	101	2.0 - 3.0 - 6.0	151	2.0 - 3.0 - 6.0	2.0 - 3.0 - 6.0
	4.6	36.7	24.1	454	34	7.5 - 11.3 - 17.3	4.9 - 7.4 - 10.7	113	2.3 - 3.4 - 6.8	170	2.3 - 3.4 - 6.8	2.3 - 3.4 - 6.8
	5.1	45.3	29.8	504	37	8.4 - 12.6 - 18.3	5.4 - 7.9 - 11.2	126	2.5 - 3.8 - 7.5	189	2.5 - 3.8 - 7.5	2.5 - 3.8 - 7.5
457 x 457 Round	6.1	65.3	42.9	605	42	10.1 - 14.1 - 20.0	6.5 - 8.7 - 12.3	151	3.0 - 4.5 - 9.0	227	3.0 - 4.5 - 9.0	3.0 - 4.5 - 9.0
	7.1	88.9	58.4	706	46	11.7 - 15.3 - 21.6	7.6 - 9.4 - 13.3	176	3.5 - 5.3 - 10.6	265	3.5 - 5.3 - 10.6	3.5 - 5.3 - 10.6
	2.0	7.0	4.5	263	13	3.8 - 5.7 - 11.5	2.5 - 3.7 - 7.5	66	1.1 - 1.7 - 3.4	99	1.1 - 1.7 - 3.4	1.1 - 1.7 - 3.4
	3.0	15.7	10.1	395	24	5.7 - 8.6 - 16.2	3.7 - 5.6 - 10.0	99	1.7 - 2.6 - 5.2	148	1.7 - 2.6 - 5.2	1.7 - 2.6 - 5.2
	4.1	27.8	17.9	527	32	7.7 - 11.5 - 18.7	5.0 - 7.5 - 11.5	132	2.3 - 3.4 - 6.9	198	2.3 - 3.4 - 6.9	2.3 - 3.4 - 6.9
457 x 457 Round	4.6	35.2	22.7	593	35	8.6 - 12.9 - 19.8	5.6 - 8.4 - 12.2	148	2.6 - 3.9 - 7.8	222	2.6 - 3.9 - 7.8	2.6 - 3.9 - 7.8
	5.1	43.5	28.0	658	38	9.6 - 14.4 - 20.9	6.2 - 9.1 - 12.8	165	2.9 - 4.3 - 8.6	247	2.9 - 4.3 - 8.6	2.9 - 4.3 - 8.6
	6.1	62.7	40.3	790	43	11.5 - 16.2 - 22.9	7.5 - 10.0 - 14.1	198	3.4 - 5.2 - 10.3	296	3.4 - 5.2 - 10.3	3.4 - 5.2 - 10.3
	7.1	85.3	54.9	922	47	13.4 - 17.5 - 24.7	8.7 - 10.7 - 15.2	230	4.0 - 6.0 - 12.1	346	4.0 - 6.0 - 12.1	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 B1-78 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.

SHRV, 5SHRV Suggested Specification & Configuration
1. SERIES: (XXXXX)

- SHRV - Round Neck with Core Deflectors,
Steel Ceiling Diffuser
5SHRV - Round Neck with Core Deflectors,
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. 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 B1-78 for panel and neck size availability.
Specify Panel 'None' if Frame 21 or 22 has been selected.

SHRV, 5SHRV

The ceiling diffuser shall be Krueger model SHRV (steel) or 5SHRV (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. Induction directional vanes shall be attached to the core louver blades. These directional vanes shall be at 45° deflection in opposite directions to the next corresponding core louver blade, resulting in turbulent discharge airflow, causing high induction rates in the horizontal plane.

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°F 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.

SAMPLE CONFIGURATION: SHRV - 04 - 10x12 - F23 - 24x24 - 00 - 44