

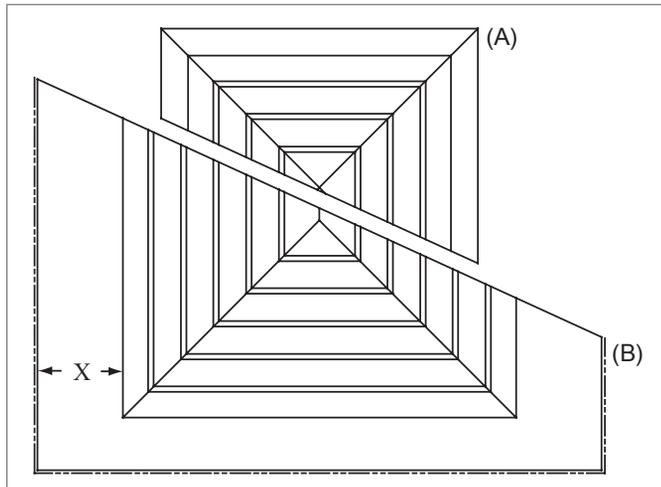
SHV face view (above) and back view (right) of air mixing vanes.

Introduction: SHV, 5SHV

The SHV/5SHV series square or rectangular diffusers 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, thereby increasing the induction rate of room air and shortening throw. Because these diffusers have 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 SHV/5SHV ideal for mounting centrally in many spaces with high load requirements while providing high mixing rates in the space.

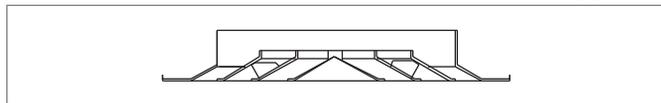
SHV, 5SHV Dimensional Information

SHV, 5SHV, FACE VIEW

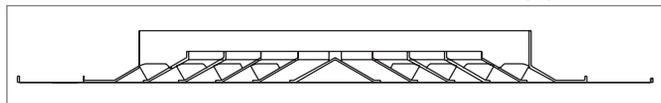


NOTE: Dimension 'X' will vary with neck sizes for Frames 23, 24, 27, and 98.

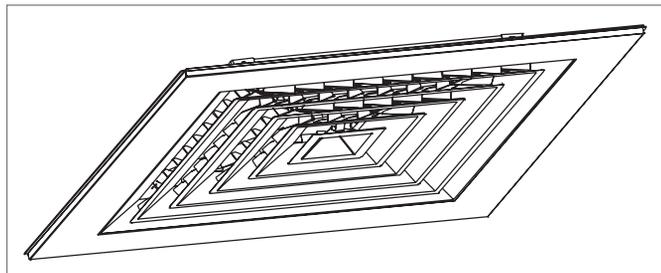
SHV, 5SHV, CROSS SECTION, SURFACE MOUNT (A)



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



SHV, 5SHV, ANGLED FACE VIEW



MODELS

- SHV - Steel Louvered Diffuser
- 5SHV - 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.
- Square or rectangular duct connections available.
- Maintains horizontal discharge air pattern from maximum to minimum CFM.
- Various discharge air patterns available.
- Excellent choice for VAV applications with high mixing rate requirements.
- Mixing vanes.

PANEL SIZES

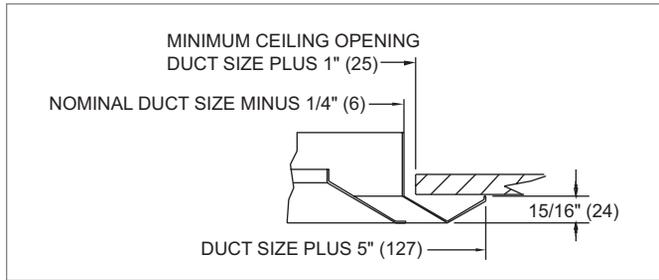
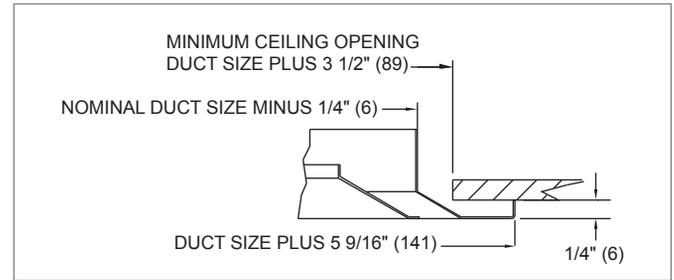
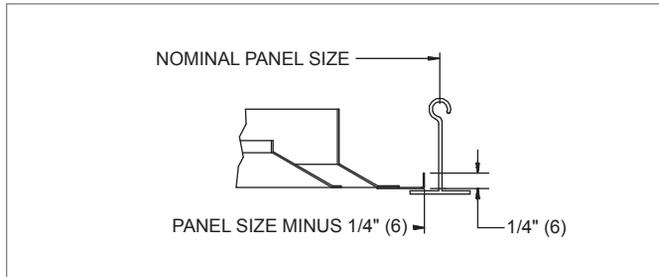
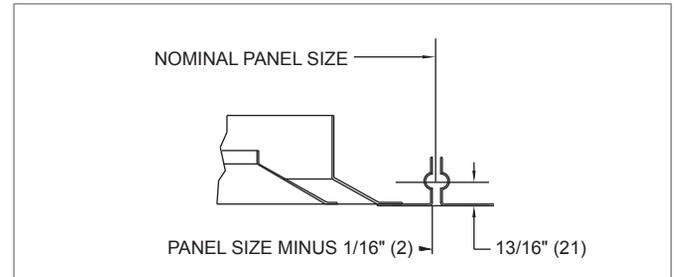
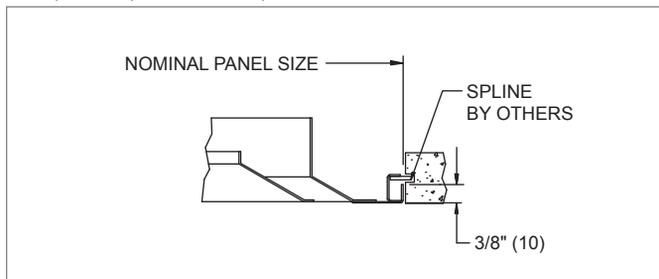
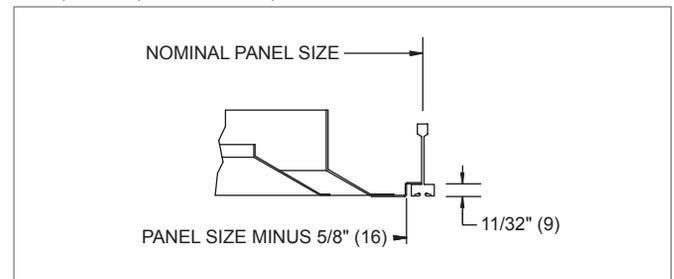
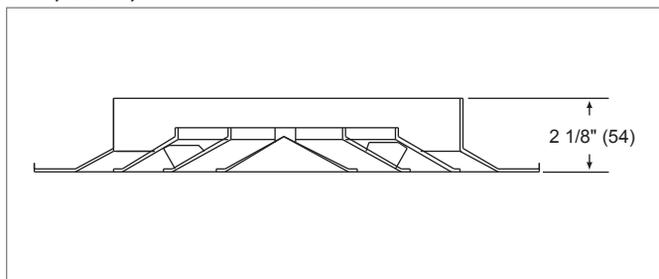
- 12"x12"
- 24"x24"
- 24"x48"

ACCESSORIES

- Optional straightening grids.
- Optional duct mounted damper.
- Optional MRI construction (5SHV).

FINISHES

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

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

SHV, 5SHV, FRAME 22, SURFACE MOUNT, FLAT

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

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

SHV, 5SHV, FRAME 27, SPLINE

SHV, 5SHV, FRAME 98, NARROW-T

SHV, 5SHV, OVERALL HEIGHT

SHV, 5SHV, AVAILABLE NECK SIZES

Frame Style	Panel Size	Minimum Inlet Dim1 x Dim2	Maximum Inlet Dim1 x Dim2
21	-	6"x6" (152x152)	48"x48" * (1219x1219)
22		36"x36" ** (914x914)	
23	12"x12" (305x305)	6"x6" (152x152)	6"x6" (152x152)
24			
27			
23	24"x24" (610x610)	6"x6" (152x152)	18"x18" (457x457)
24			
27			
23	24"x48" (610x1219)	12"x12" (305x305)	18"x42" (457x1067)

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

* Available in 4-way discharge air pattern only.

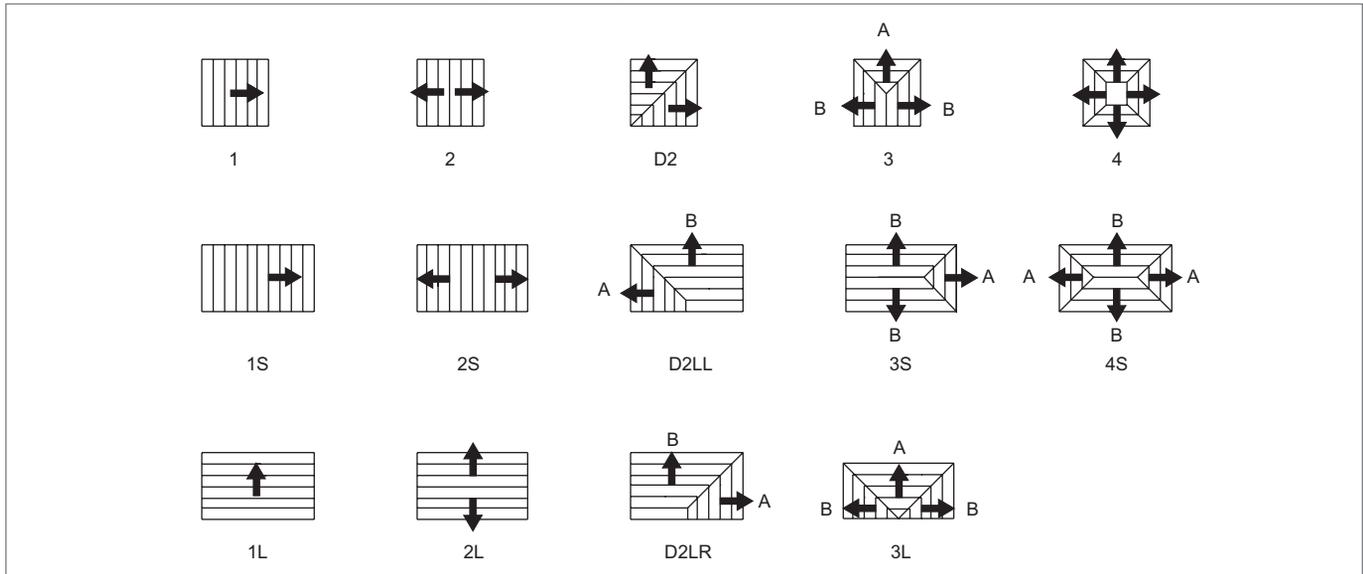
** Available to model SHV only.

*** Available to model 5SHV only.

SHV, 5SHV | Flush Face, Mixing Vanes

SHV, 5SHV Discharge Air Patterns

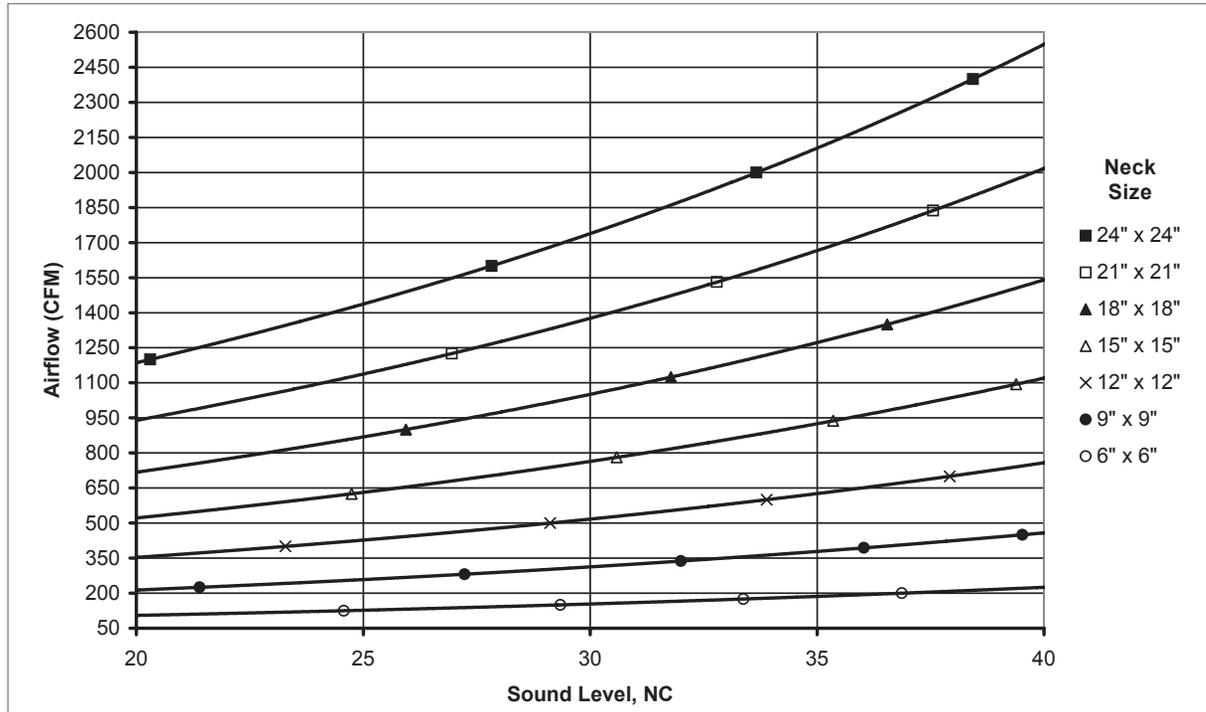
SHV, 5SHV, DISCHARGE AIR PATTERNS (FACE VIEW)



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

SHV, 5SHV Reference Chart

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



LOUVERED FACE DIFFUSERS

SHV - 5SHV