

MODELS

- SHRV - Steel, louvered ceiling diffuser with round inlet, core deflectors, and mixing vanes
- 5SHRV - Aluminum, louvered ceiling diffuser with round inlet, core deflectors, and mixing vanes

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
- 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

INLET SIZES

- Round: 6" - 16" (2" increments)
- Square: 6"x6" - 18"x18" (3" increments)

FRAME STYLES

- 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

PANEL SIZES

- 12"x12"
- 24"x24"

COMPATIBLE OPTIONS AND ACCESSORIES

- PR10 - Steel, radial opposed blade damper
- PRN100 - Steel, radial fan damper
- RP12 - Steel, butterfly bladed damper
- PRD10 - Steel, radial opposed blade damper (duct mount)
- PRD100 - Steel, radial fan damper (duct mount)
- PR12 - Steel, butterfly bladed damper (duct mount)
- RSG15 - Steel, round straightening grid (duct mount)
- PRSG15 - Steel, round straightening grid
- OBDDM - Steel, square or rectangular damper (duct mount)
- EX8 - Steel duct extractor with 1" blade spacing (duct mount)
- EX88 - Steel duct extractor with 2" blade spacing (duct mount)
- HCF23 - Steel, hard ceiling frame (F23 only)
- 5HCF23 - Aluminum, hard ceiling frame (F23 only)



MIXING VANES ON BACK OF CORE

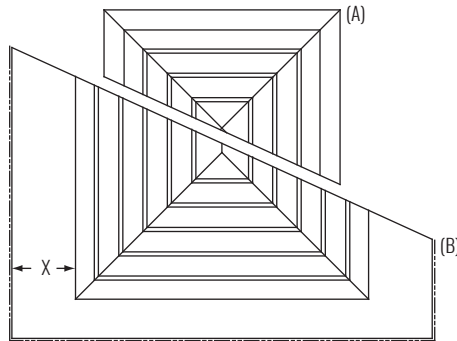


SHRV / 5SHRV



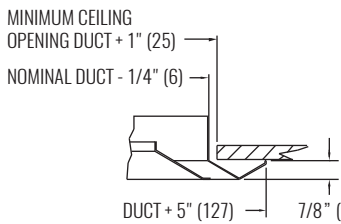
Louvered Face Diffuser, Flush Face, Core Deflectors, Mixing Vanes, Round Inlet

DIMENSIONAL DATA

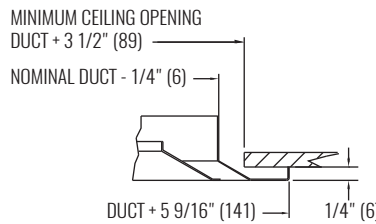


FRAME STYLE DIFFERENCES
A = SURFACE MOUNT, B = LAY-IN T-BAR

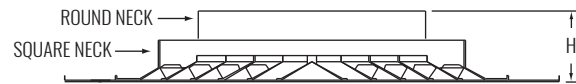
DIMENSIONS - AVAILABLE INLET SIZES			
PANEL SIZE	NOMINAL SQUARE	ROUND INLET	HEIGHT (H)
12"x12"	6"	6"	3 1/8" (79)
24"x24"	6", 9", 12", 15", 18"	6"	3 1/8" (79)
	9", 12", 15", 18"	8"	3 3/8" (86)
	12", 15", 18"	10"	3 3/8" (86)
	12", 15", 18"	12"	3 3/8" (86)
	15", 18"	14"	3 3/8" (86)
	18"	16"	3 3/8" (86)



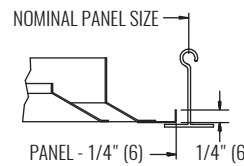
FRAME 21, SURFACE MOUNT, BEVELED



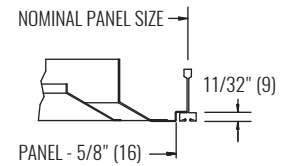
FRAME 22, SURFACE MOUNT, FLAT



CROSS SECTION, FRAME 23



FRAME 23, LAY-IN T-BAR



FRAME 98, NARROW-T

NOTES: Dimensions in parentheses are millimeters (mm). Illustrations shown are for a 24"x24" panel. Core removal is the same as the SH series of diffusers. Dimension 'X' will vary with inlet sizes for Frames 23, 24, 27, and 98.

PERFORMANCE AND DESIGN DATA

SIZE		PERFORMANCE - HORIZONTAL THROW				DESIGN		
NOMINAL SQUARE INLET	NOMINAL ROUND INLET	NC (< 25)		NC (25 - 40)		CFM @ NC-30	SPACING @ 0.6 CFM/sf (ft)	MINIMUM CFM/sf
		CFM	THROW (ft)	CFM	THROW (ft)			
6"x6"	6"	78 - 138	4 - 8	147 - 235	8 - 13	175	18	0.40
9"x9"	8"	140 - 235	6 - 10	253 - 419	10 - 17	290	22	0.45
12"x12"	10"	218 - 354	7 - 12	382 - 610	13 - 20	430	25	0.50
12"x12"	12"	314 - 490	9 - 14	530 - 863	15 - 24	600	30	0.52
15"x15"	14"	427 - 668	10 - 16	721 - 1154	17 - 27	850	36	0.55
18"x18"	6"	78 - 138	4 - 8	147 - 235	8 - 13	180	18	0.40
18"x18"	8"	140 - 235	6 - 10	253 - 419	10 - 17	280	22	0.45
18"x18"	10"	218 - 354	7 - 12	382 - 610	13 - 20	440	26	0.50
18"x18"	12"	314 - 491	9 - 14	530 - 864	15 - 24	600	30	0.52
18"x18"	14"	427 - 668	10 - 16	721 - 1154	17 - 27	820	36	0.55
18"x18"	16"	558 - 837	11 - 17	907 - 1450	19 - 29	1000	38	0.60

NOTES: Information shown is abbreviated. See website for complete information. Dimensions in parentheses are millimeters (mm). Throw value ranges are given for isothermal conditions, unless otherwise noted, and a terminal velocity of 50 FPM (0.25 m/s). NC ranges are based on octave band 2 - 7 sound power levels minus a room absorption of 10dB, re 10⁻¹² Watts. Data was obtained from tests conducted in accordance with ANSI/ASHRAE Standard 70, ISO Standard 5219, and ISO Standard 3741. Design spacing is recommended distance between diffusers in an open plan office based on ADPI > 80%, 9ft ceiling, and 55°F discharge at 30 NC and 0.6 CFM/sf. Minimum CFM/sf is based on recommended spacing at 80% ADPI. Design recommendations not applicable to vertical throw. "N/A" in design table denotes situations which do not result in ADPI > 80% and are therefore not recommended.