

MODELS

SHFR - Steel, fire rated, louvered ceiling diffuser

FEATURES

- Core is removable from face of diffuser
- · Square or rectangular duct connections
- Maintains a horizontal discharge air pattern from maximum to minimum CFM
- Lever operator on optional OBDFA damper allows easy volume adjustment from face of diffuser
- Various discharge air patterns available
- Excellent choice for VAV applications with high loads
- SHFR comes standard as a UL 263 classified assembly that incorporates a three hour rated fire damper and a 1/2" thick ceramic fiber blanket

INLET SIZES

• Square: 6"x6" - 18"x18" (3" increments)

FRAME STYLES

• F23 - Lay-in T-bar

PANEL SIZES

24"x24"

COMPATIBLE OPTIONS AND ACCESSORIES 1

- 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)

NOTES:

1 Check allowance of options and accessories with local fire codes.



WEB SEARCH: SHFR

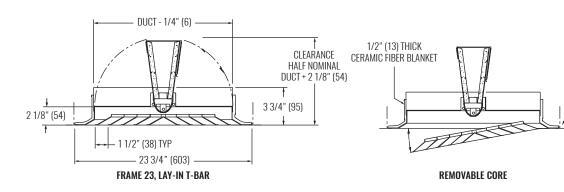




DIMENSIONAL DATA



T-BAR (BY OTHERS)



NOTES: Dimensions in parentheses are millimeters (mm).

PERFORMANCE AND DESIGN DATA

SIZE		PERFORMANCE - HORIZONTAL THROW				DESIGN		
PANEL	NOMINAL INLET	NC (< 25)		NC (25 - 40)		CFM @	SPACING @	MINIMUM
		CFM	THROW (ft)	CFM	THROW (ft)	NC=30	0.6 CFM/sf (ft)	CFM/sf
24"x24"	6"x6"	50 - 180	7 - 12	200 - 325	13 - 17	225	19	0.30
	9"x9"	113 - 365	10 - 18	385 - 675	18 - 24	450	27	0.30
	12"x12"	200 - 600	13 - 23	640 - 1100	23 - 31	750	35	0.30
	15"x15"	313 - 905	16 - 28	938 - 1563	28 - 37	1125	43	0.33
	18"x18"	450 - 1245	20 - 33	1350 - 2250	34 - 44	1600	52	0.35

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.