## SHPC / 5SHPC

Louvered Face Diffuser, Flush Face, Pattern Controllers

#### MODELS

- SHPC Steel, louvered ceiling diffuser with square or rectangular inlet and pattern controllers
- 5SHPC Aluminum, louvered ceiling diffuser with square or rectangular inlet and pattern controllers

#### FEATURES

- Square duct connections
- · Adjustable pattern controllers for vertical throw
- · Core is removable from face of diffuser
- Maintains a horizontal discharge air pattern from maximum • to minimum CFM
- Excellent choice for VAV applications with high loads
- · Excellent choice for high ceiling applications

#### **INLET SIZES**

Square: 6"x6" - 21"x21" (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"
- 48"x24"

#### COMPATIBLE OPTIONS AND ACCESSORIES

- · OBDFA Steel, square or rectangular face operated damper for SH Series
- 5OBDFA Aluminum, square or rectangular face operated damper for SH Series
- SRNA Steel, square to round adapter for SH Series
- SRNA2 Steel, square to round adapter for SH Series
- SSG Steel, square or rectangular 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)

WEB SEARCH: SHPC or 5SHPC



SHPC / 5SHPC



ZOOMED VIEW OF PATTERN CONTROLLERS

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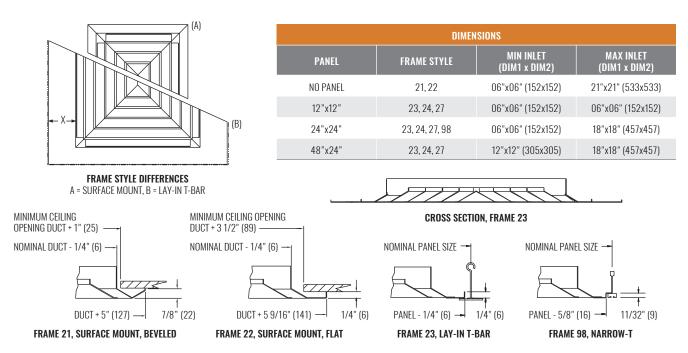


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### **DIMENSIONAL DATA**



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

ERFORMANCE	AND	DESIGN	DATA

PERFORMANCE AND DESIGN DATA									
SIZE	PERFORMANCE				DESIGN				
NOMINAL INLET	NC (< 25)		NC (25 - 40)		CFM @	SPACING @ 0.6 CFM/sf	MINIMUM		
	CFM	THROW (ft)	CFM	THROW (ft)	NC=30	(ft)	CFM/sf		
HORIZONTAL THROW									
6"x6"	100 - 138	9 - 12	150 - 250	12 - 15	200	18	0.42		
9"x9"	225 - 325	14 - 17	350 - 580	17 - 22	420	25	0.41		
12"x12"	400 - 540	19 - 22	575 - 1000	22 - 29	680	30	0.40		
15"x15"	469 - 781	20 - 26	850 - 1400	27 - 35	1000	38	0.39		
18"x18"	675 - 1100	24 - 31	1125 - 2025	31 - 42	1350	44	0.38		
21"x21"	919 - 1430	28 - 35	1531 - 2580	36 - 47	1780	50	0.35		
VERTICAL THROW									
6"x6"	100 - 125	9 - 12	150 - 250	12 - 15	N/A	N/A	N/A		
9"x9"	225 - 281	14 - 16	304 - 495	16 - 21	N/A	N/A	N/A		
12"x12"	400 - 467	19 - 20	500 - 800	21 - 27	N/A	N/A	N/A		
15"x15"	469 - 677	20 - 25	729 - 1250	25 - 33	N/A	N/A	N/A		
18"x18"	675 - 938	24 - 29	1013 - 1575	30 - 37	N/A	N/A	N/A		
21"x21"	919 - 1225	29 - 33	1327 - 2144	34 - 44	N/A	N/A	N/A		

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<sup>-12</sup> 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.