

SHPCR / 5SHPCR

Louvered Face Diffuser, Flush Face, Pattern Controllers, Round Inlet

MODELS

- SHPCR Steel, louvered ceiling diffuser with round inlet and pattern controllers
- 5SHPCR Aluminum, louvered ceiling diffuser with round inlet and pattern controllers

FEATURES

- Round 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

- 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)





ZOOMED VIEW OF PATTERN CONTROLLERS

WEB SEARCH: SHPCR or 5SHPCR

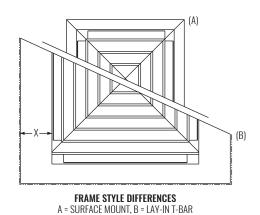


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DIMENSIONAL DATA



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

Н SQUARE NECK MINIMUM CEILING OPENING MINIMUM CEILING SQUARE SIZE + 3 1/2" (89) -**CROSS SECTION, FRAME 23** OPENING DUCT + 1" (25) -NOMINAL NOMINAL SQUARE DUCT - 1/4" (6) SIZE - 1/4" (6) — NOMINAL PANEL SIZE-NOMINAL PANEL SIZE -PANEL - 1/4" (6) PANEL - 5/8" (16) 11/32" (9) DUCT + 5" (127) 7/8" (22) SQUARE SIZE + 5 9/16" (141) 1/4" (6) 1/4" (6) FRAME 21, SURFACE MOUNT, BEVELED FRAME 22, SURFACE MOUNT, FLAT FRAME 23, LAY-IN T-BAR FRAME 98, NARROW-T

ROUND NECK

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.

PERFORMANCE AND DESIGN DATA

SI	ZE	PERFORMANCE			DESIGN						
NOMINAL NOMINAL ROUND SQUARE INLET 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"	6"x6"	78 - 170	6 - 12	183 - 295	13 - 22	210	16	0.35			
8"	9"x9"	140 - 291	8 - 16	314 - 488	17 - 26	370	20	0.36			
12"	12"x12"	314 - 696	11 - 26	706 - 1099	26 - 40	750	26	0.38			
8"	18"x18"	140 - 291	8 - 16	314 - 523	17 - 28	320	20	0.35			
12"	18"x18"	314 - 608	11 - 22	628 - 1099	23 - 40	770	28	0.40			
16"	18"x18"	558 - 1046	15 - 28	1116 - 1814	30 - 49	1300	34	0.40			
VERTICAL THROW											
6"	6"x6"	78 - 147	7 - 14	157 - 255	15 - 24	N/A	N/A	N/A			
8"	9"x9"	140 - 253	10 - 18	279 - 453	20 - 32	N/A	N/A	N/A			
12"	12"x12"	314 - 530	15 - 25	569 - 942	26 - 44	N/A	N/A	N/A			
8"	18"x18"	140 - 253	10 - 18	270 - 453	19 - 32	N/A	N/A	N/A			
12"	18"x18"	314 - 530	15 - 25	569 - 942	26 - 44	N/A	N/A	N/A			
16"	18"x18"	558 - 907	20 - 32	977 - 1535	34 - 54	N/A	N/A	N/A			

NOTES: Information shown is abbreviated. See website 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.