

MODELS

- 1400 - Steel, louvered ceiling diffuser
- 51400 - Aluminum, louvered ceiling diffuser ¹
- M1400 - Steel, hard metric, louvered ceiling diffuser (lay-in T-bar only)
- M51400 - Aluminum, hard metric, louvered ceiling diffuser ¹ (lay-in T-bar only)

FEATURES

- 4 cones for optimum airflow control
- Cones feature a 1-piece stamped construction without mitered joints
- Round inlet for easy connection to round duct
- Anti-smudge design prevents smeared ceilings
- Two earthquake tabs are standard
- Great choice for variable air volume spaces

INLET SIZES

- Round: 6" - 14" (2" increments), 15"

FRAME STYLES

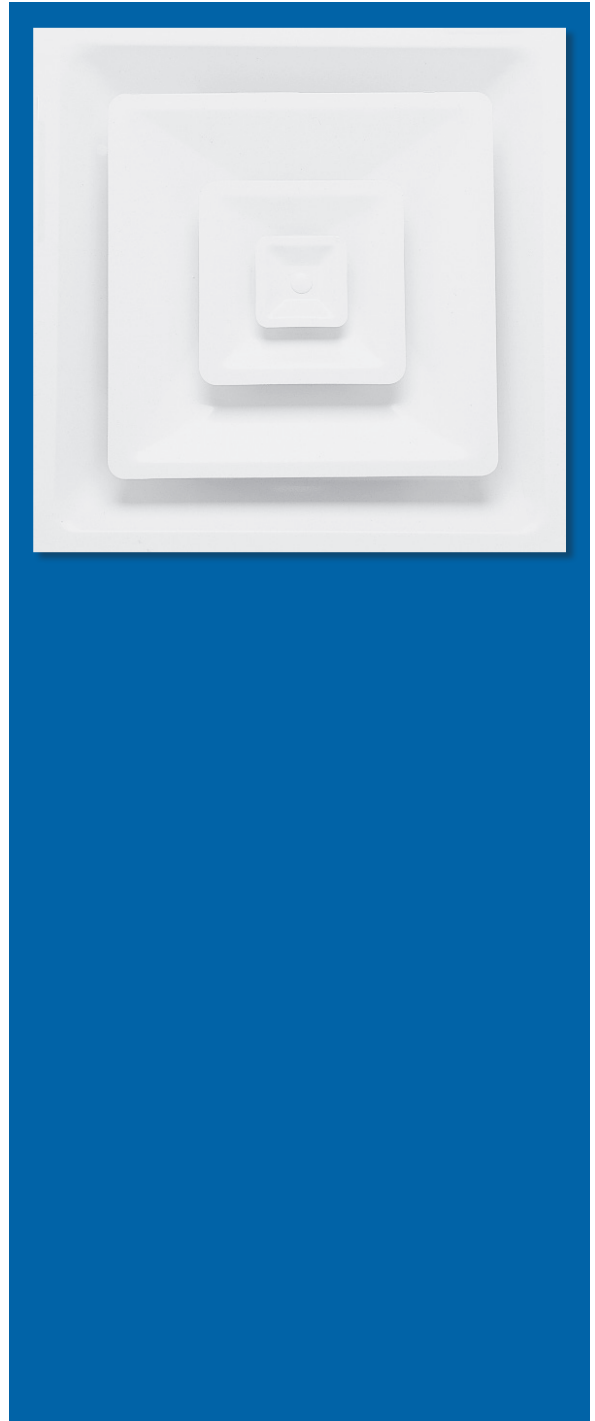
- F12 - 12" module in 24" F23 panel ²
- F22 - Surface mount ³
- F23 - Lay-in T-bar
- F27 - Spline
- F98 - Narrow-T

PANEL SIZES

- 12"x12", 24"x24", 48"x24" ⁴
- 300x300mm, 600x600mm, 1200x600mm ^{4 5}

COMPATIBLE OPTIONS AND ACCESSORIES

- Adjustable throw pattern
- IB - Insulated blanket (24"x24")
- R6 - Molded insulation (24"x24"), non-metric
- 1400SB - Steel, sectorizing baffle
- 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)



NOTES:

- ¹ Safe for MRI use; F22 MRI safe mounting hardware by others.
- ² F12 and 12"x12" panel available with 6" and 8" inlet dimensions only.
- ³ F22 includes separate aluminum plaster frame shipped loose for field installation.
- ⁴ 48"x24" (1200x600mm) panel available in F23 only.
- ⁵ Only available with M1400 and M51400 models.

WEB SEARCH: 1400 or 51400

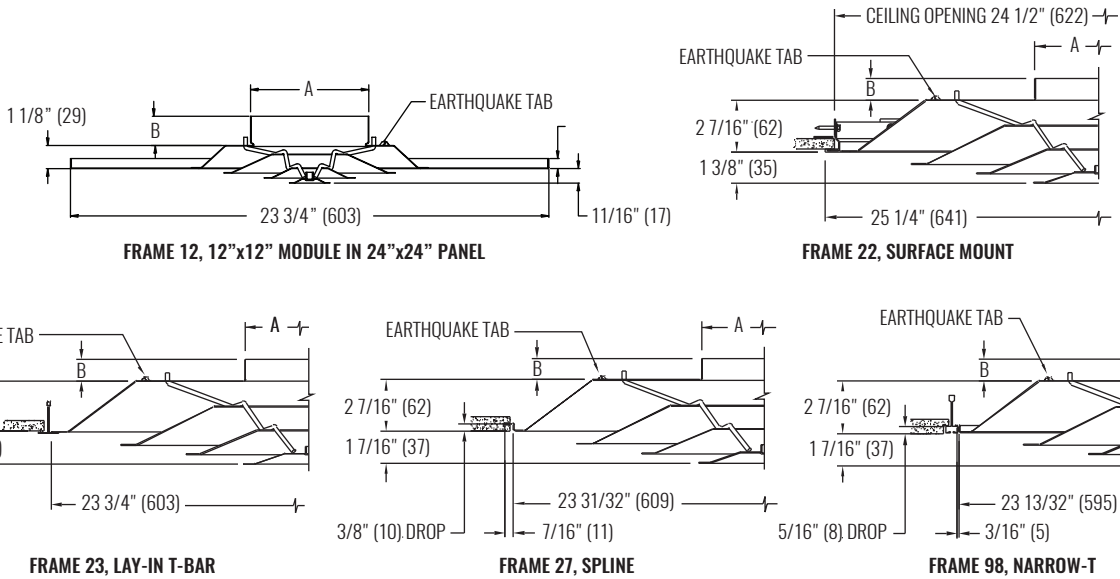


1400 / 51400 SERIES

Louvered Face Diffuser, 4 Cones



DIMENSIONAL DATA



NOTES: Dimensions in parentheses are millimeters (mm). Illustrations shown are for a 24"x24" panel. See table below for dimensional references.

PERFORMANCE, DESIGN, AND DIMENSIONAL DATA

SIZE		PERFORMANCE - HORIZONTAL THROW				DESIGN			DIMENSIONS		
PANEL	NOMINAL INLET	NC (< 25)		NC (25 - 40)		CFM @ NC=30	SPACING @ 0.6 CFM/sf (ft)	MINIMUM CFM/sf	ACTUAL INLET SIZE	1400 & M1400	51400 & M51400
		CFM	THROW (ft)	CFM	THROW (ft)						
12"x12"	6"	39 - 150	4 - 11	157 - 220	12 - 14	160	16	0.25	5 7/8" (149)	1 1/4" (32)	1 1/2" (38)
	8"	70 - 250	6 - 15	279 - 370	16 - 18	260	20	0.20	7 7/8" (200)	1 1/4" (32)	1 1/2" (38)
24"x24"	6"	79 - 230	7 - 12	245 - 393	13 - 16	275	20	0.20	5 7/8" (149)	1 1/4" (32)	1 1/2" (38)
	8"	70 - 320	5 - 15	349 - 525	15 - 19	380	25	0.22	7 7/8" (200)	1 1/4" (32)	1 1/2" (38)
	10"	109 - 410	6 - 17	436 - 675	17 - 21	490	28	0.24	9 7/8" (251)	1 1/2" (38)	1 1/2" (38)
	12"	157 - 490	7 - 18	525 - 800	19 - 23	600	30	0.28	11 7/8" (302)	1 1/2" (38)	1 1/2" (38)
	14"	214 - 600	9 - 20	641 - 990	21 - 26	700	32	0.30	13 7/8" (352)	1 1/2" (38)	1 1/2" (38)
	15"	245 - 650	9 - 21	680 - 1060	21 - 27	800	34	0.30	14 7/8" (378)	1 1/2" (38)	1 1/2" (38)

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.