

MODEL

- 1240 - Steel, modular core ceiling diffuser, square inlet
- 51240 - Aluminum, modular core ceiling diffuser, square inlet

FEATURES

- Hand-removable modular cores
- Variety of discharge air patterns
- Air diffused through fixed vanes

INLET SIZES¹

- Square: 6"x6" - 24"x24" (2" increments)

FRAME STYLES

- F21 - Surface mount, beveled
- F22 - Surface mount, flat
- F23 - Lay-in T-bar
- F29 - Camlock
- F30 - Drop face
- F98 - Narrow-T

PANEL SIZES

- 24"x24"

COMPATIBLE OPTIONS AND ACCESSORIES

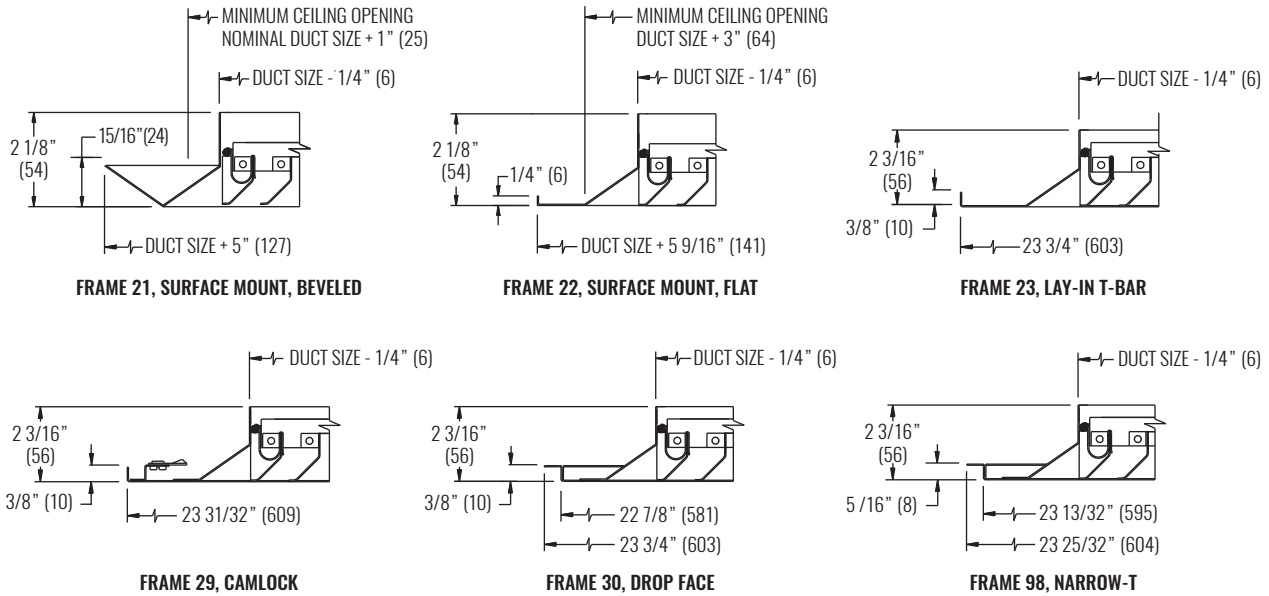
- OBD1240 - Steel, square or rectangular damper
- 5OBD1240 - Aluminum, square or rectangular damper
- OBDDM - Steel, square or rectangular damper (duct mount)
- EX8 - Steel duct extractor with 1" blade spacing (duct mount)
- EX88 - Steel duct extractor with 2" blade spacing (duct mount)
- HCF23 - Steel, hard ceiling frame (F23 only)
- 5HCF23 - Aluminum, hard ceiling frame (F23 only)
- SSG - Steel, square or rectangular straightening grid
- SRAC325 - Steel, square to round adapter

NOTES: Damper not included in configuration code.

¹ Inlet sizes 22"x22" and 24"x24" are only available for F21 and F22.

**WEB SEARCH:** 1240 or 51240

DIMENSIONAL DATA



NOTES: Dimensions in parentheses are millimeters (mm).
 A 24"x24" panel with F23 is not available with 22"x22" or 24"x24" inlet sizes.
 A 24"x24" panel with F29, F30, or F98 is not available with 20"x20", 22"x22", or 24"x24" inlet sizes.

PERFORMANCE AND DESIGN DATA

SIZE		PERFORMANCE - HORIZONTAL THROW				DESIGN		
PANEL	NOMINAL INLET	NC (< 25)		NC (25 - 40)		CFM @ NC=30	SPACING @ 0.6 CFM/sf (ft)	MINIMUM CFM/sf
		CFM	THROW (ft)	CFM	THROW (ft)			
24"x24"	6"x6"	75 - 225	8 - 14	250 - 400	14 - 18	300	22	0.30
	8"x8"	133 - 340	10 - 17	356 - 590	17 - 22	420	26	0.30
	10"x10"	208 - 470	13 - 20	486 - 764	20 - 25	560	30	0.32
	12"x12"	300 - 600	16 - 22	650 - 1000	23 - 29	750	35	0.34
	14"x14"	408 - 750	18 - 25	800 - 1225	26 - 32	900	39	0.35
	16"x16"	533 - 889	21 - 27	970 - 1600	28 - 36	1100	43	0.37
	18"x18"	675 - 1050	23 - 29	1125 - 1800	30 - 38	1280	46	0.38
	20"x20"	556 - 1210	21 - 31	1290 - 2100	32 - 41	1400	48	0.39
	22"x22"	336 - 1344	12 - 33	1500 - 2353	35 - 44	1700	53	0.40
24"x24"	400 - 1550	18 - 36	1600 - 2680	36 - 47	1900	56	0.41	

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.