TECHNICAL DATA

DesignMax DM8C-SUB
in-ceiling subwoofer

PROFESSIONAL

Product Overview

Delivering rich low-end performance, the 180-watt DesignMax DM8C-SUB subwoofer brings instantly impressive bass to any commercial sound installation. The in-ceiling DM8C-SUB has an 8-inch woofer, 38 Hz – 155 Hz frequency range, and is installed easily via QuickHold mounting arms. DesginMax subwoofers complement and enhance any DesignMax installation.



Key Features

Combine DesignMax models to complete any design, big or small — 12 loudspeakers to mix and match, from 2-inch, low-profile models to 8-inch, high-SPL compression-driver loudspeakers and outdoor-rated options.

Deliver rich bass performance with custom Bose drivers; for optimal performance use select Bose DSPs and amplifiers to enable Bose loudspeaker EQ and SmartBass processing, which expands performance and response at any listening level.

Blend with any room design with elegant form factors, minimum-bezel grilles available in black or white, and removable logos.

Reduce installation time with the patented QuickHold mounting system, which also reduces strain, hassle, and the chance of product damage.

Install easily with industry-standard accessories — all models include Euroblock connectors; in-ceiling models include plenum-rated backcans, tile bridges, and front-access audio wiring that makes installation and troubleshooting easier.

Technical Specifications

SINGLE LOUDSPEAKER PERFORMANCE		
Frequency Response (–3 dB) [1]	45 – 117 Hz	
Frequency Range (–10 dB) [1]	38 – 155 Hz	
Nominal Coverage Angle (1 – 4 kHz)	Omnidirectional below 200 Hz	
Nominal Coverage Angle (1 – 10 kHz)	Omnidirectional below 200 Hz	
	AES component test [4]	**Bose extended-lifecycle test [5]**
Power Handling, long-term continuous	180 W	150 W
Power Handling, peak	720 W	600 W
Sensitivity (SPL/ 1W @ 1 m) [2]	89 dB	89 dB
Calculated Maximum SPL @ 1 m [3]	112 dB	111 dB
Calculated Maximum SPL @ 1 m, peak	118 dB	117 dB
Recommended High-Pass Protection	40 Hz with recommended 18 dB / octave filter	
Recommended Crossover	80 - 200 Hz (via active crossover in DSP)	
Transformer taps	70V: 20, 40, 80, 150 W, bypass 100V: 40, 80, 150 W, bypass	
TRANSDUCERS		
Low Frequency	1 x 8-inch woofer (203 mm)	
Nominal Impedance	8 ohms (transformer bypass)	

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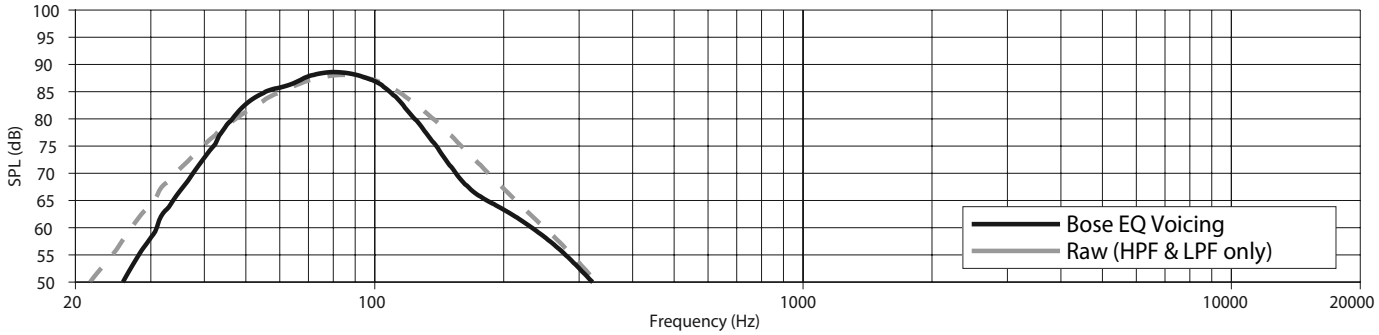
PHYSICAL	
Enclosure Material	Engineered-plastics front baffle with integrated steel formed back can
Grille	Magnetically attached perforated steel, powder-coated finish, paintable, with safety-tether
Logo	Rotatable, removable
Color	Black: Ral 9005, White: Bose Arctic White, Paintable
Environmental	Indoor only
Safety Agency	UL-1480A, S5591/ UL Listed, in compliance with UL2043 for plenum-space installation, NFPA70 & NFPA90-A, CE compliant
Operating Temperature Range	0 °C to 50 °C (32 °F to 122 °F)
Connectors	Euroblock 6-pin connector with loop-through, front-baffle mounted. Accepts 18 AWG (0.8 mm^2) to 14 AWG (2.5 mm^2) size wire.
Wire / Conduit Entry	Single top wire entry point, allows for 9.5 mm (3/8 in) conduit
Suspension / Mounting	Three (3) QuickHold, spring-loaded mounting arms plus three (3) safety cable locations
Maximum Ceiling Thickness	76 mm (3.0 in)
Product Dimensions (Grille Diameter × Depth)	409 × 255 mm (16.1 × 10.0 in)
Backcan Dimensions (Diameter × Depth)	340 × 240 mm (13.4 × 9.5 in)
Ceiling Cutout	349 mm (13.8 in)
Net Weight, Loudspeaker with grille (single)	9.9 kg (21.9 lb)
Net Weight, Tile Bridge	1.0 kg (2.2 lb)
Shipping Weight	12.9 kg (28.5 lb)
Included Accessories	Adjustable Tile-Bridge, Template
Optional Accessories	Rough-in 6-pack for new construction
PRODUCT CODES	
829380-0110	DESIGNMAX DM8C-SUB SINGLE BLK
829380-0210	DESIGNMAX DM8C-SUB SINGLE WHT

Footnotes
(1) Frequency response and range measured on-axis in half-space environment with Bose EQ voicing
(2) Sensitivity measured on-axis in half-space environment with Bose EQ voicing
(3) Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression
(4) AES standard 2-hour duration with IEC system noise
(5) Bose extended-lifecycle test using pink noise filtered to meet IEC268-5, 6-dB crest factor, 500-hour duration
(6) Frequency response shown using 40 Hz HPF 18 dB/octave and 99 Hz LPF 24 dB/octave

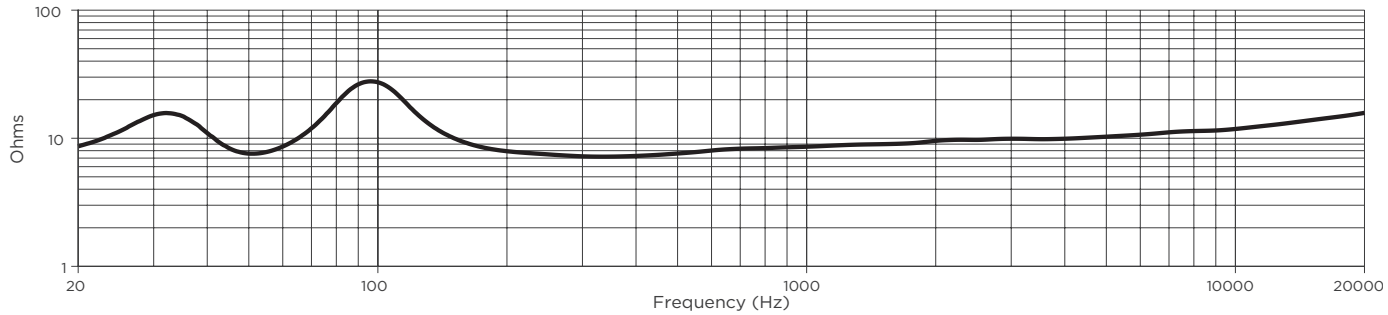
For additional specifications and application information, please visit PRO.BOSE.COM.
Specifications subject to change without notice. 09/2020

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On-Axis Frequency Response [6]



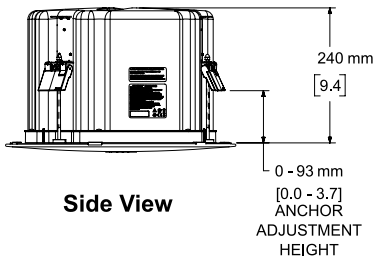
Impedance



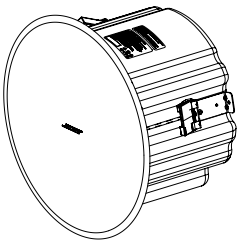
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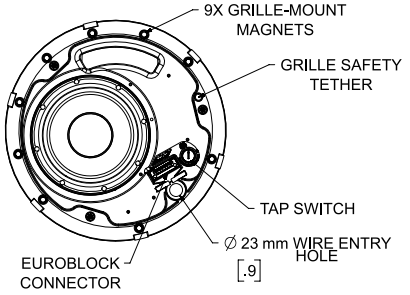
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Dimensions

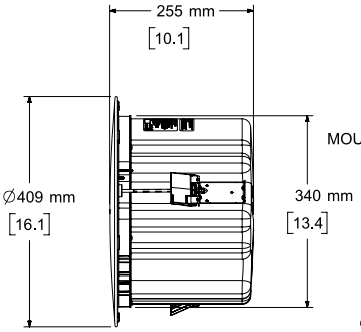


Side View

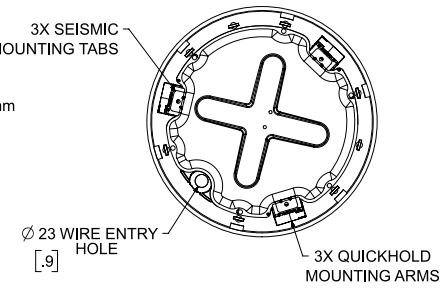




Front View
GRILLE REMOVED FOR CLARITY

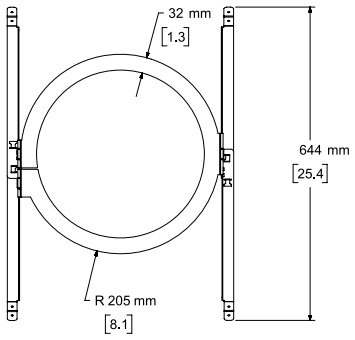


Right View
DIMENSIONS APPLY TO BOTH SIDES

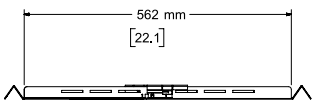


Rear View

NOTES:
1. DIMENSIONS ARE IN MILLIMETERS OVER INCHES
2. WEIGHT APPROX 9.91kg [21.9lbs]



Top View



Right View
DIMENSIONS APPLY TO BOTH SIDES

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