EdgeMax EM180-LP proprietary directional loudspeaker

Product Overview

Bose Professional's EdgeMax series combines highfidelity sound with unique directionality to break free of the limitations of the in-ceiling loudspeaker category. Think of EdgeMax as your "secret weapon" for directing powerful, full-range audio into rooms demanding a different approach. It sounds like a surface-mount loudspeaker, looks like an in-ceiling loudspeaker, and directs sound asymmetrically into spaces where traditional loudspeakers can't go. The EdgeMax series delivers the coverage patterns, high SPL, and frequency response of larger surface-mount loudspeakers but with a clean visual aesthetic.

Patented PhaseGuide® technology directs sound asymmetrically into the room, creating coverage found in no other loudspeaker. Choose purpose-built horizontal coverage—90 degrees for corner placement or a wider 180 degrees—ideal for both near-field and wide coverage. The result: amazing performance, directionality, and voice intelligibility that puts the EdgeMax family in a class by itself.

EdgeMax loudspeakers can be installed at the room's perimeter while still projecting sound inward for roomfilling coverage. This means fewer units required compared to typical loudspeakers. And when installed near a wall, boundary-loading delivers impressive bass impact.

The original EdgeMax models feature a deeper 9-inch (23-centimeter) backcan and 75-degree vertical coverage angle to deliver bold full-range sound and a higher SPL. The EdgeMax LP models feature a shallow 4-inch (10-centimeter) backcan and wider 80-degree vertical coverage angle for spaces with above-ceiling limitations and tighter clearances. Integrators can "mix and match" these models, particularly in challenging installations with varying dimensions and obstructions.



Applications

Conference rooms, halls, atriums & cafeterias Hospitality spaces with low ceiling clearance Restaurants Retail Retrofits with unknown ceiling clearance

Key Features

Patented PhaseGuide technology evenly distributes sound throughout the space to ensure all listeners enjoy the same experience—regardless of their location

High-frequency compression driver and high-excursion woofer for exceptional audio quality and power In-ceiling installation for minimum visual impact, with fewer units required to deliver uniform sound Low-profile, lightweight backcan measuring only 4 inches (10 centimeters) in depth, allowing for easier installation and use in more ceiling constructions

In-ceiling mounting near room edges and corners (80° vertical coverage and 180° horizontal coverage)

Wall-boundary loading for greater bass response and performance

2-way passive crossover with bypassable 70/100V transformer

Consistent voicing across the EdgeMax family

QuickHold spring-loaded mounting system for easy installs

Magnetically attached grille for quick access to wiring and tap settings

UL 1480A and UL 2043 safety standard compliance

Specifications are subject to change. For additional specifications and application information, please visit BoseProfessional.com. 03/2025

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Technical Specifications

EdgeMax EM180-LP

SINGLE-LOUDSPEAKER PERFORMA	NCE						
Frequency Response (–3 dB) ¹	50 – 18,000 Hz						
Frequency Range (–10 dB) ¹	45 – 19,000 Hz						
Coverage Pattern	180° horizontal × 80° vertical (asymmetrical, 0° – 80° referenced to wall)						
AUDIO PERFORMANCE	AES Transducer Test 4	Bose Professional Extended-Lifecycle Tes					
Power Handling, Long-term Continuous	40 W	32 W					
Power Handling, Peak	160 W	128 W					
Sensitivity (SPL/1W @1m) 2	91 dB	91 dB					
Calculated Maximum SPL @ 1 m, Continuous ³	107 dB	106 dB					
Calculated Maximum SPL @1m, Peak	113 dB	112 dB					
Crossover	1 kHz (passive 2-way crossover with in	tegrated 70/100V transformer)					
Loudspeaker EQ	Presets available for speech optimization and music						
Recommended High-pass Protection	55 Hz with minimum 24-dB/octave filter						
Overload Protection	Resistor-network power reduction with automatic reset						
Transformer Taps	70V: 4 W, 8 W, 16 W, 32 W, bypass 100V: 8 W, 16 W, 32 W, bypass						
TRANSDUCERS							
Low Frequency	1 × Bose Professional LF5 high-excursion 5.25-in (133 mm) woofer, 1.5-in (38 mm) voice coil						
High Frequency	1 × compression driver, 1.3-inch (33 mm) voice coil						
Nominal Impedance	8 Ω (transformer bypass)						
PHYSICAL							
Enclosure Material	Engineered-plastics front baffle with i	ntegrated steel formed enclosure					
Grille	Magnetically attached micro-perforated steel, powder-coated finish, white (similar to RAL 9003), paintable, includes safety tether						
Environmental	Indoors only						
Safety	UL 1480A, in compliance with UL 2043 for plenum-space installation						
Operating Temperature	0 °C to 50 °C (32 °F to 122 °F)						
Connectors	6-pin Euroblock connector with loop-through, front-baffle mounted						
Suspension / Mounting	(4) QuickHold spring-loaded mounting arms, (4) safety cable tabs						
Maximum Ceiling Thickness	39 mm (1.5 in)						
Ceiling Cutout & Clearance	345 mm × 345 mm (13.6 in × 13.6 in), 100 mm (3.9 in) mounting depth						
Product Dimensions (length × width × depth)	339 mm × 339 mm × 100 mm (13.4 in × 13.4 in × 3.9 in) enclosure 390 mm × 390 mm × 13 mm (15.4 in × 15.4 in × 0.5 in) grille flange, as mounted						
Net Weight, Single Loudspeaker	7.6 kg (16.7 lb) with grille						
Net Weight, Tile Bridge	1.4 kg (3.1 lb)						
Shipping Weight	11.1 kg (24.5 lb)						
Package Contents	(1) EdgeMax EM180-LP, (1) adjustable t (1) installation guide	ile bridge, (1) ceiling hole template, (1) paint shield,					
Optional Accessories	Rough-in pan, ceiling tile, black grille						
PRODUCT CODES							
EdgeMax EM180-LP	891454-0200 EDGEMAX EM180-LP IN	CEILING LDSPKR WHT					

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EdgeMax Rough-in Pan

PHYSICAL							
Net Weight	1.0 kg (2.2 lb)						
Package Contents	(2) EdgeMax rough-in pans, (1) installation guide						
PRODUCT CODES							
EdgeMax Rough-in Pan (1 pair)	h-in Pan (1 pair) 790054-0010 EDGEMAX EM90/180 ROUGH-IN PAN PAIR						

EdgeMax EMCT Ceiling Tile

The EdgeMax Tile accessory is a ceiling tile replacement for use with the EdgeMax loudspeakers, eliminating the need to cut existing ceiling tiles and creating a flush appearance by recessing the loudspeaker grille into the tile.

	AMERICAS (24 in × 24 in)	EUROPE & ASIA PACIFIC (600 mm × 600 mm)					
PHYSICAL							
Material	Powder-coated steel; white: similar to RAL 9003, paintable						
Product Dimensions (length × width × depth)	595 mm× 595 mm × 13 mm (23.4 in × 23.4 in × 0.5 in)	605 mm × 605 mm × 13 mm (23.8 in × 23.8 in × 0.5 in)					
Net Weight	2.1 kg (4.6 lb)	2.0 kg (4.4 lb)					
Package Contents	(1) EdgeMax EMCT ceiling tile, (1) installation guide						
PRODUCT CODES							
EdgeMax EMCT Ceiling Tile	843297-0210 EDGEMAX CEILING TILE 24X24 WHT	843298-0210 EDGEMAX CEILING TILE 600X600 WHT					

EdgeMax Black Grille

The EdgeMax black accessory grille allows EdgeMax loudspeakers to be used in room designs where black is the best aesthetic match for room décor.

PHYSICAL							
Material & Finish	Micro-perforated steel, powder-coated finish, black, paintable						
Product Dimensions (length × width × depth)	390 mm × 390 mm ×13 mm (13.8 in × 13.8 in × 0.5 in)						
Net Weight	0.6 kg (1.3 lb)						
Package Contents	(1) EdgeMax black grille, (1) installation guide						
PRODUCT CODES							
EdgeMax Black Loudspeaker Grille	788330-0110 EDGEMAX EM90/180 BLACK GRILLE SNGL						

Footnotes:

AES standard 2-hour duration with IEC system noise.

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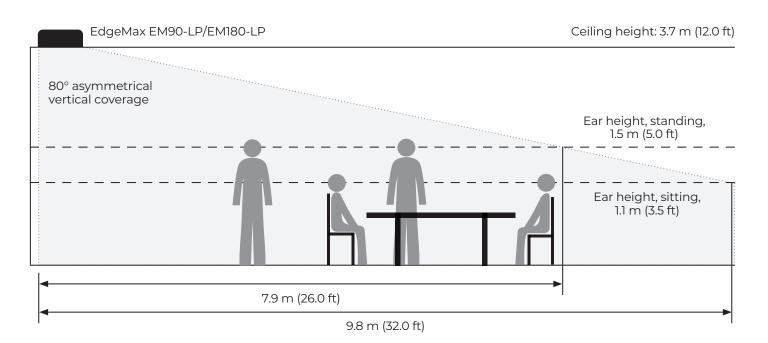
^{1.} Frequency response and range measured on-axis in one-quarter-space (wall-loaded) environments with recommended active EQ.

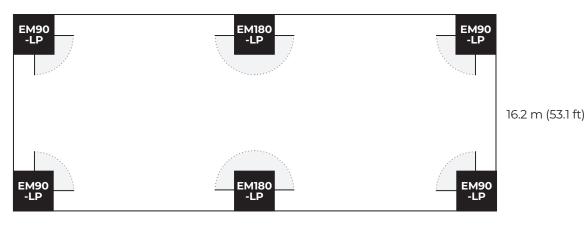
Sensitivity measured on-axis in one-quarter-space (wall-loaded) environments with recommended active EQ.
Maximum SPL calculated from sensitivity and power handling specifications, exclusive of power compression.

^{5.} Bose Professional extended-lifecycle test using pink noise filtered to meet IEC268-5, 6-dB crest factor, 500-hour duration.

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32.4 m (106.3 ft)

USABLE THROW DISTANCE, EM90-LP & EM180-LP													
Loudspeaker mounting height		m	2.4	2.7	3.0	3.4	3.7	4.0	4.3	4.5	4.9	5.5	6.1
		ft	8	9	10	11	12	13	14	15	16	18	20
Listener ear height	Standing ⁶	m	3.5	4.6	5.8	6.9	8.1	9.2	10.3	11.2	12.6	14.9	17.2
		ft	11	15	19	23	26	30	34	37	41	49	56
	Sitting ⁷	m	5	6	7	8	10	11	12	13	14	16	19
		ft	17	20	24	28	32	35	39	42	46	54	61

USABLE THROW DISTANCE, EM90-LP & EM180-LP

Standing position assumes 1.5 m (5.0 ft) ear height.
Sitting position assumes 1.1 m (3.5 ft) ear height.

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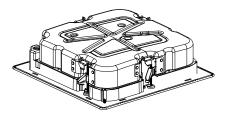
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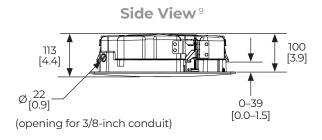
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Dimensions⁸

EdgeMax EM180-LP

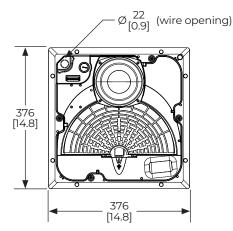




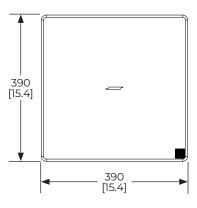
Top View

Bottom View

(without grille)

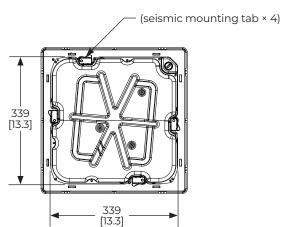






Dimensions are shown in millimeters over inches.
Dimensions apply to both left and right sides.

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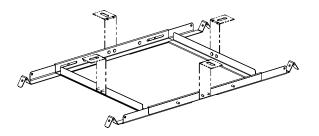


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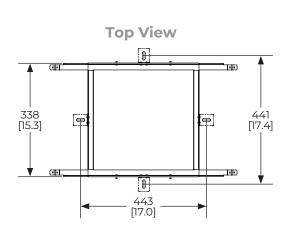
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EdgeMax Tile Bridge (Included)



Front View

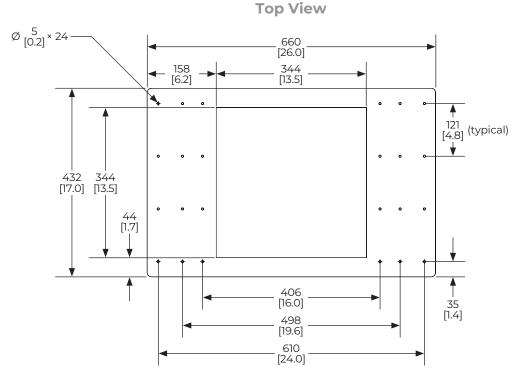




Side View⁹

_____559–660 [22.0–26.0] (adjustment range)

EdgeMax Rough-in Pan



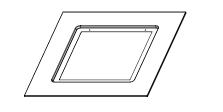
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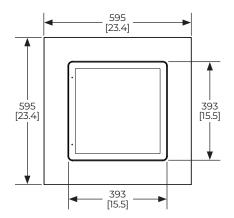
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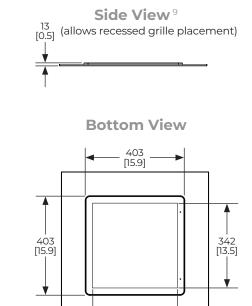
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EdgeMax EMCT Ceiling Tile (Americas, 24 × 24 in)



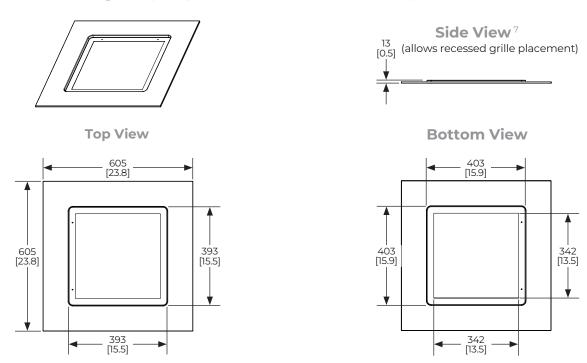






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EdgeMax EMCT Ceiling Tile (Europe & Asia Pacific, 600 × 600 mm)



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