

CBT Series

Line Array Column Loudspeakers



The JBL CBT Series line array columns with Constant Beamwidth Technology break new ground in performance, versatility, and affordability. Designed for venues that would typically use larger point-and-shoot speakers, the CBT models incorporate technical advancements that allow them to vastly outperform competitive systems, with a level of user-friendliness that virtually eliminates the challenges of delivering great sound. With a slim compact design in fiberglass reinforced ABS enclosures, the CBT Series fits well into virtually any decor.

Constant Beamwidth Technology™ locks in and maintains a specific coverage pattern over a very wide bandwidth. The CBT models deliver smooth, consistent coverage that is similar to — and in some respects, better than — complex and far more expensive line arrays. The CBT Series' constant directivity coverage delivers consistent frequency response at every distance as well as off-axis. With the CBT Series, every seat in the house experiences the same quality of sound regardless of position.

CBT models are outdoor capable, with an IEC529 rating of IP-54. CBT Series column line array loudspeakers are ideal for any application requiring a speaker with discrete appearance, excellent sound and superb pattern control.

CBT 50LA-1

The **CBT 50LA-1** is the most compact of the models. The 150 Watt power handling and high sensitivity allows this speaker to hold its own versus larger competitive columns for output level. A frequency response down to 80 Hz works well for either speech or music. The voicing can be set to match the application through the Music(flat)/Speech switch located on the side of the cabinet.

Typical applications include: audio support for video monitors, retail stores, concourses, general fill applications, conference rooms, and architectural spaces where a traditional point-and-shoot loudspeaker may be too visually obtrusive.

CBT 100LA-1

The **CBT 100LA-1** contains sixteen 50 mm (2 in) full-range drivers in a slim, compact cabinet. The tallest of the models (other than the CBT 70J+70J combination), CBT 100LA provides excellent pattern control. The vertical coverage is easily adjustable with a side cabinet switch, making this single loudspeaker model an exceptional choice for a wide variety of difficult environments, both indoors and outdoors. 325 Watts of power handling and high sensitivity produces exceptionally high output capability from a column that is only 9.9 cm (3.8 in) wide. Voicing is switchable between Music (flat) and Speech settings.

Typical applications include: lecture halls, difficult acoustic spaces, transit centers, conference rooms, cathedrals, multi-purpose spaces, and a variety of architectural spaces.

CBT 70J and CBT 70J-1

The **CBT 70J-1** is a two-way speaker, with frequency response down to 60 Hz, 500 Watts power handling, very high sensitivity and high continuous SPL capability. Combining Constant Beamwidth Technology with a physical J-shaped curving, this model provides asymmetrical vertical coverage which sends more sound toward the far area of the room than toward the near area, resulting in more even coverage of the room from front to back. Because it provides some down-fill sound, it is fairly forgiving of mounting height. The excellent pattern control helps to reduce back-wall reflections. Vertical coverage is switchable, as is the voicing. CBT 70J is a unique and exceptionally good sounding loudspeaker.

Typical applications include: high level A/V applications, small to medium sized performance spaced (depending on the amount of bass required), full fidelity lecture halls, large-scale surround sound applications, and outdoor systems such as baseball fields, racetracks and theme parks.

CBT 70JE-1

The **CBT 70JE-1** contains four low frequency drivers and a crossover network purposely designed for use with the CBT 70J. When connected to a CBT 70J line array column speaker, the CBT 70JE Extension provides extended bass response, extended pattern control, and increased sound output levels.



CBT 70JE-1

CBT 70J-1 + 70JE-1

The **CBT 70J-1 + 70JE-1** array system is twice the height of a CBT 70J, which extends the pattern control down to below 400 Hz, to include the voice range and much of the music range. This unobtrusive column array system provides 1000 Watts of continuous power handling (peaks of 4000 Watts), high sensitivity and very high maximum output capability, with a frequency response that extends down to 45 Hz.

Typical applications include: medium performance spaces that require more bass and/or more pattern control than a 70J by itself, highly reflective small to medium houses of worship requiring more pattern control than a 70J, full-fidelity lecture halls with difficult acoustic environments or where full spectrum sound is desired, transit centers with highly reverberant acoustic environments, and multi-purpose spaces that may require exceptional speech clarity and as well as full bandwidth music.

Accessory

MTC-CBT-SMB1 – Stand Mount Bracket fits all models except CBT 70J+70JE array system, for use with JBL SS2-BK speaker stand, for portable applications.

MTC-CBT-FM1 – Low-profile, close-to-wall mounting bracket for use with CBT 50LA-1 and CBT 100LA-1

MTC-CBT-FM2 – Low-profile, close-to-wall mounting bracket for use with CBT 70J-1 and CBT 70J-1/70JE-1 array.

key features

CBT Series

- ➊ PATENT PENDING CONSTANT BEAMWIDTH TECHNOLOGY™ PROVIDES CONSTANT BEAMWIDTH
- ➋ VERTICAL COVERAGE SWITCHABLE BETWEEN NARROW AND BROAD TO FIT WIDE VARIETY OF APPLICATIONS
- ➌ FULL FIDELITY BANDWIDTH
- ➍ SELECTABLE VOICING PROVIDES FLAT RESPONSE IN MUSIC MODE OR MID-RANGE PRESENCE PEAK IN SPEECH MODE



All models include grilles, which are removed in photos to illustrate driver composition.

specifications

	CBT 50LA-1	CBT 100LA-1	CBT 70J-1	CBT 70J-1 + 70JE-1 Array System
SYSTEM TYPE	Compact Full-Range Speaker System	Pattern Control Full-Range Speaker System	Full-Range J-Shaped Speaker System	LF & Pattern Extension for CBT70J-1
FREQUENCY RANGE ¹	80 Hz – 20 kHz	80 Hz – 20 kHz	60 Hz – 20 kHz	45 Hz – 20 kHz
COVERAGE PATTERN	Vertical: 20° (1.5 kHz - 16 kHz, ±10°) Horizontal: 150° (ave, 1 kHz – 4 kHz, ±20°)	V Narrow Mode: 15° (2 kHz - 16 kHz) (±10°) V Broad Mode: 40° (1 kHz - 16 kHz) (±10°) Horizontal: 150° (avg, 1 kHz – 4 kHz, ±20°)	V Narrow Mode: 25° (2 kHz - 16 kHz) (±10°) V Broad Mode: 45° (750 Hz - 16 kHz) (±10°) Horizontal: 150° (500 Hz – 8 kHz, ±20°)	V Narrow Mode: 25° (2 kHz - 16 kHz) (±10°) V Broad Mode: 45° (350 Hz - 16 kHz) (±10°) Horizontal: 150° (500 Hz – 8 kHz, ±20°)
SENSITIVITY: SPEECH (2 kHz - 14 kHz) MUSIC MODE (300 Hz - 18 kHz)	93 dB 89 dB	Narrow: 96 dB / Broad: 93 dB Narrow: 93 dB / Broad: 90 dB	Narrow: 98 dB / Broad: 96 dB (1 kHz - 8 kHz) Narrow: 93 dB / Broad: 92 dB	Narrow: 98 dB / Broad: 97 dB (1 kHz - 8 kHz) Narrow: 94 dB / Broad: 93 dB
COMPONENTS	Eight 50 mm (2 in) Full-Range	Sixteen 50 mm (2 in) Full-Range	Four 130 mm (5 in) LF drivers Sixteen 25 mm (1 in) HF drivers	Eight 130 mm (5 in) LF drivers Sixteen 25 mm (1 in) HF drivers
IMPEDANCE	8 ohms	8 ohms	8 ohms	4 ohms
POWER CAPACITY: 8 OHM SETTING ²	150W (600W peak), 2 hrs 100 W (400W peak), 100 hrs	325 W (1300W peak), 2 hrs 200 W (800W peak), 100 hrs	500 W (2000W peak), 2 hrs 350 W (1400W peak), 100 hrs	1000 W (4000 W peak), 2 hrs 700 W (2800 W peak), 100 hrs
MAXIMUM SPL ¹ : SPEECH MODE	115 dB cont ave (121 peak)	Speech Narrow: 121 dB cont ave (127 peak) Speech Broad: 118 dB cont ave (124 peak) Music Narrow: 118 dB cont ave (124 peak) Music Broad: 115 dB cont ave (121 peak)	Speech Narrow: 125 dB cont ave (131 peak) Speech Broad: 123 dB cont ave (129 peak) Music Narrow: 120 dB cont ave (126 peak) Music Broad: 119 dB cont ave (125 peak)	Speech Narrow: 125 dB cont ave (131 peak) Speech Broad: 124 dB cont ave (130 peak) Music Narrow: 121 dB cont ave (127 peak) Music Broad: 120 dB cont ave (126 peak)
MUSIC MODE	111 dB cont ave (117 peak)			
TRANSFORMER TAPS: 100V 70V	60 W, 30 W, 15 W 60 W, 30 W, 15 W, 7.5 W	100 W, 50 W, 30 W 100 W, 50 W, 30 W, 15 W		
MOUNTING	Wall bracket included	Wall bracket included	Wall bracket included	Coupler plate to join CBT 70J-1 and 70JE-1
DIMENSIONS (H x W x D)	528 x 99 x 153 mm 20.8 x 3.9 x 6.0 in	1000 x 99 x 153 mm 39.4 in x 3.9 in x 6.0 in	694 x 170 x 237 mm 27.4 x 6.7 x 9.3 in	1388 x 170 x 237 mm 54.8 x 6.7 x 9.3 in
NET WEIGHT (each)	4.1 kg (9.0 lb)	7.2 kg (15.8 lb)	9.5 kg (21 lb)	20.4 kg (45 lb)

¹ Full space ² IEC standard, full bandwidth pink noise with 6 dB crest factor.

³ Calculated based on power rating and measured sensitivity, exclusive of power compression.

Control® 60 Series

key features

- ➊ DESIGNED FOR APPLICATIONS WITH OPEN ARCHITECTURE AND HIGH CEILINGS
- ➋ HANGING HARDWARE WITH GALVANIZED STEEL CABLE AND EASY TO ADJUST CLAMP

Pendant Loudspeakers

- ➌ PROPRIETARY RBI RADIATION BOUNDARY INTEGRATOR™ TECHNOLOGY FOR SEAMLESS INTEGRATION OF COAXIAL DRIVERS AND MORE CONSISTENT COVERAGE

JBL Control Contractor 60 Series Pendant loudspeakers bring renowned JBL sound and outstanding coverage to rooms and venues with open architecture or high-ceilings, while providing superior voice and musical clarity for rooms with difficult acoustics.

The diverse line-up, coupled with stylish design, is suitable for a wide variety of applications and decors—convention and exhibit spaces, atriums, restaurants, retail stores and more. Easy-to-install hanging hardware is included, featuring redundant suspension cables and UL listed adjustable-height hangers.

JBL's proprietary conical RBI Radiation Boundary Integrator is adapted from the groundbreaking VERTEC® Series of line array loudspeakers. This unique JBL patent-pending innovation combines a large diameter high-frequency waveguide with low-frequency projection apertures that work in tandem to provide a seamless integration of coverage between the two coaxially-mounted drivers. The result is extremely even pattern control and coverage, where all listeners hear a consistent flat, frequency response. This often allows the use of fewer speakers.



CONTROL 65P/T

The **Control 65P/T** incorporates JBL's exclusive RBI Radiation Boundary Integration technology to provide very consistent, wide coverage throughout the listening space.

CONTROL 67P/T

The **Control 67P/T** incorporates a large enclosure and high-power 6.5" (165 mm) transducer for extended bass and high-fidelity. The extra-large RBI Radiation Boundary Integrator™ provides outstanding pattern control, which can allow fewer speakers to cover a venue.

CONTROL 67HC/T

The **Control 67HC/T** has well-controlled narrow coverage, ideal for improved voice intelligibility and musical clarity in high-ceiling venues or in rooms with difficult acoustics—convention centers, transit centers, exhibit venues and hotel atriums.

CONTROL 62P

The **Control 62P**, with its 2.5" driver, is great for speech and mid-high music applications (external high-pass required) in visually sensitive applications. For full-range, wide bandwidth performance, up to 4 pieces can be driven from a Control 50S/T or 40CS/T subwoofer.

specifications

	CONTROL 65P/T	CONTROL 67P/T	CONTROL 67HC/T	CONTROL 62P
SYSTEM TYPE	Compact Full-Range Pendant Loudspeaker with RBI	Full-Range Pendant Loudspeaker with RBI	Narrow-Coverage, High Ceiling Pendant Loudspeaker with RBI	Ultra-Compact, Mid-High Satellite Pendant Speaker
FREQUENCY RESPONSE (-10 dB) ¹	55 Hz – 20 kHz	58 Hz – 18 kHz	75 Hz – 17 kHz	150 Hz – 20 kHz
FREQUENCY RANGE (±3 dB)	78 Hz – 18 kHz	78 Hz – 16 kHz	110 Hz – 16 kHz	200 Hz – 17 kHz
POWER CAPACITY ² : PROGRAM	150 W	150 W	150 W	50 W
PINK	75 W	75 W	75 W	15 W
NOMINAL SENSITIVITY ³	86 dB	90 dB	93 dB	87 dB (4.0 V, 1 W); 84 dB (2.83 V)
NOMINAL COVERAGE ANGLE ³	120°	120°	75°	140°
RATED IMPEDANCE	8 ohms	8 ohms	8 ohms	16 ohms
TRANSFORMER TAPS	70V: 60 W, 30 W, 15 W & 7.5 W 100V: 60 W, 30 W, 15 W	70V: 60 W, 30 W, 15 W & 7.5 W 100V: 60 W, 30 W, 15 W	70V: 60 W, 30 W, 15 W & 7.5 W 100V: 60 W, 30 W, 15 W	(no transformer taps)
TRANSDUCERS	LF: 130 mm (5 1/4 in) polypropylene-coated paper with pure butyl rubber surround HF: 20 mm (3/4 in) textile soft-dome with neodymium magnet assembly	LF: 165 mm (6 1/2 in) polypropylene-coated paper with pure butyl rubber surround HF: 25 mm (1.0 in) textile soft-dome, neodymium magnet assembly	LF: 165 mm (6 1/2 in) polypropylene-coated paper with pure butyl rubber surround HF: 25 mm (1 in) textile soft-dome, neodymium magnet assembly	60 mm (2 1/2 in), polypropylene-coated paper with pure butyl rubber surround
ENCLOSURE	High impact polystyrene	High impact polystyrene	High impact polystyrene	High impact polystyrene
DIMENSIONS (DIAMETER x DEPTH)	234 x 259 mm	312 x 330 mm	333 x 344 mm	128 x 121 mm
NET WEIGHT (each)	9.3 x 10.2 in 3.7 kg (8 lb)	12.3 x 13 in 5.2 kg (11.5 lb)	13.1 x 13.6 in 5.9 kg (13 lb)	5.1 x 4.8 in .7 kg (1.5 lb)

¹ Full-space (suspended)

² Continuous Pink Noise rating is IEC-shaped pink noise with a 6 dB peak-to-average crest factor for 100 hours continuously. Continuous Program power is a conservative expression

of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise rating.

³ Full-space (suspend in free air), average 1.5 kHz to 10 kHz.

Control® 50 Series

Surface-Mount Subwoofer-Satellite System

key features

- 1 SELECTABLE 70V/100V OR LOW IMPEDANCE
- 2 WALL-MOUNT BRACKETS INCLUDED
- 3 MIX AND MATCH WITH CONTROL CONTRACTOR 40 SERIES
- 4 USE EITHER TWO OR FOUR SATELLITE SPEAKERS PER SYSTEM

The C50PACK includes 4) Control 52 satellite speakers and 1) Control 50 subwoofer as shown. The Control 50 Series is also available individually.

The Control 50 Series subwoofer-satellite loudspeaker system provides high fidelity sound in any location where full-range high fidelity foreground/background music is required from a surface-mount system.

The Control 50S/T subwoofer can be utilized with either two of four Control 52 satellite speakers. The Control 50 system is mono. Both the Control 50S/T and Control 52 can be intermixed in systems along with the Control 40 Series in-ceiling models – Control 40CS/T subwoofer and Control 42 satellite speaker – to match the form factor requirements of a wide variety of applications.



CONTROL 52 SATELLITE SPEAKER

The Control 52 satellite loudspeaker produces superb high fidelity sound via a low distortion 60 mm (2½ in) driver. The included wall bracket allows each speaker to be angled up to 45° off-axis.

CONTROL 50S/T SUBWOOFER

The Control 50S/T subwoofer contains a high-power, long-excursion, 200 mm (8 inch) driver which provides extended low frequency response. The Control 50S/T installs quickly with its included two-piece easy-mount wall-bracket.

The built-in crossover network provides proper signal routing and output connectors for four Control 52 satellite loudspeakers. A Loop Out connector provides a full-range input signal to other loudspeakers or to other subwoofer/satellite systems.

specifications

	Control 52	Control 50S/T	Control 50PACK
SYSTEM TYPE	Wall-Mountable Satellite Speaker	150 W Subwoofer	Control 50S/T and 4 pcs Control 52
FREQUENCY RANGE (-10 dB) ¹	140 Hz – 20 kHz	32 Hz – 200 Hz	32 Hz – 20 kHz
POWER CAPACITY: PROGRAM ²	30 W (100 hours)	200 W (100 hours)	200 W (100 hours)
PINK	15 W (100 hours)	100 W (100 hours)	100 W (100 hours)
NOMINAL COVERAGE ³	150° x 150° omnidirectional	95 dB (near corner), 89dB (center of wall)	87 dB
SENSITIVITY: 1W, 1m	85 dB	8 ohms	4 ohms
NOMINAL IMPEDANCE	16 ohms	80 W, 40 W, 20 W, 80 W, 40 W, 20 W, 10 W 8 ohm bypass/thru	80 W, 40 W, 20 W, 80 W, 40 W, 20 W, 10 W 8 ohm bypass/thru
TRANSFORMER TAPS: 100V 70V		200 mm (8 in) with polypropylene cone, butyl rubber surround, 38 mm (1.5 in) 4-layer copper-clad coil, vented aluminum former	
COMPONENTS:	60 mm (2.5 in) with polypropylene cone, butyl rubber surround, 19 mm (0.75 in) copper-clad coil, copper sleeved magnet	6 Screw-down removable locking connectors	6 Screw-down removable locking connectors
TERMINATION	Screw-down removable locking connector	356 x 391 x 203 mm	
DIMENSIONS (H x W x D)	115 x 84 x 96 mm	14.0 x 15.4 x 8.0 in	
NET WEIGHT (each)	.7 kg (1.5 lb)	9.0 kg (20 lb)	11.8 k (26 lb)

¹ Half-space (mounted on wall).

² Continuous Pink noise rating is IEC-shaped pink noise with a 6 dB crest factor for 100 hours continuously. Continuous Program Power is a conservative expression of the system's ability to handle normal speech and music program material, and is defined as 3 dB above the Continuous Pink Noise rating.

³ Half-space, average 1 kHz – 4 kHz

Control® Contractor

Surface-Mount Speakers



The Control Contractor Surface speakers are compact systems with rugged, molded high impact polystyrene shells. Designed for wide-ranging indoor and outdoor (except SB-2) applications, the Control Contractor Series offers versatility, ease-of-installation and paintability. JBL's Invisiball® mounting technology revolutionizes ease-of-installation with built-in hardware easily secured with a standard hex wrench from a front channel (except Control CRV). Mounting bracket is included.

CONTROL 23/CONTROL 23T

The most compact of the JBL Control Contractor Series speakers, the **Control 23**, has a 3½" woofer and horn-loaded titanium-coated tweeter ideal for mid/high operation in limited space environments. The optional Control 23T has a pre-installed transformer for line distribution systems. Augmenting the bass with a JBL subwoofer results in an extremely full-fidelity subwoofer-satellite system.

CONTROL 25/CONTROL 25T

The **Control 25** incorporates a 5¼" low frequency loudspeaker with a horn-loaded 1" titanium-coated tweeter. Its full-range frequency response makes it an excellent choice for moderately large venues, providing superior dynamic performance. The optional Control 25T includes a multitap transformer for line distribution systems.

CONTROL 25AV

The **Control 25AV** is an especially wide bandwidth, smooth response speaker. It features a top-quality 60 W multitap transformer for 70V/100V line distribution systems. The transformer may be bypassed allowing the Control 25AV to be used as an 8 ohm impedance speaker. Stainless steel grille and MTC-PC2 panel cover included for additional weather resistance.

CONTROL 25AV-LS

The **Control 25AV-LS** is UL1480 UUMW listed for use in fire alarm and/or emergency communication systems.



CONTROL 25AV-LS

CONTROL 28/CONTROL 28T-60

The **Control 28** offers high power, performance, bandwidth and sensitivity in a compact, full-range speaker. Incorporating an 8" low-frequency woofer and 1" titanium-coated tweeter, the Control 28 provides vivid sound reproduction for large-space applications. The optional Control 28T-60 contains a multitap transformer for 70V/100V line distribution systems.

CONTROL 29AV-1

The **Control 29AV-1** utilizes high power components and a complex network to achieve smooth high fidelity performance, extended bandwidth and well-controlled defined coverage from a compact loudspeaker. A rotatable 110° x 85° high-frequency horn allows use of the speaker in either vertical or horizontal orientation. Smooth frequency response and even coverage ensures excellent sound character throughout the listening area. Contains 10 inserts for suspending. Optional MTC-29UB U-bracket available.

CONTROL 30

The **Control 30** is a three-way high output speaker designed for multiple uses. Weather resistance has been maximized, making the Control 30 suitable for outdoor applications. It features a top-quality 150 W multitap transformer for 70V/100V line distribution systems with a bypass for use as an 8 ohm speaker. Contains 10 inserts for suspending. Optional MTC-30UB U-bracket available.

key features

- 1 INVISIBALL® MOUNTING TECHNOLOGY
- 2 WEATHEREDGE™ FOR MOISTURE PROTECTION
- 3 PAINTABLE TEXTURED ENCLOSURES
- 4 SELECTION OF VERSATILE MOUNTING HARDWARE



The unique curved shape of the CRV provides innovative installation solutions. When placed at the junction of the ceiling and wall or two walls, the speaker couples well with both boundary surfaces, forming a dual ground plane configuration.



JBL's exclusive, patented InvisiBall Mounting System (most models) allows for quick, easy, theft-resistant installation with the built-in mount secured by a few turns of a standard hex wrench.



JBL's Control Contractor systems provide incredible design flexibility. All speakers are constructed with a similar sonic signature allowing mixing and matching of any of the various models. For décor considerations, all models (except SB-2) are available in black or white and are paintable.

CONTROL CRV

The **Control CRV** brings high design and versatility to both indoor and outdoor commercial applications. The Control CRV incorporates dual 4" woofers with Polyplas™ cones for durability and a ¾" titanium-laminate tweeter.

CONTROL SB-2

The **SB-2** functions as the subwoofer section of left/right music systems, preserving the stereo separation. The dual voice coil 10" bass transducer has been optimized to complement four Control 23 as satellite speakers. (Not outdoor capable.)

CONTROL SB210

The **Control SB210** subwoofer contains two high power 10" woofers suitable for a variety of applications both indoors and out. Its compact size, durable enclosure, insert points, and stacking options make it one of the most versatile subwoofers in the installation market. Optional input modules are available to provide passive subwoofer/satellite crossover (MTC-210-SAT), 70 V/100V subwoofer-band transformer (MTC-210T) or both (MTC-210T-SAT for use with low impedance satellite speakers.)

ACCESSORIES

MTC-PC2: The MTC-PC2 Panel Cover provides sealed entrance protection for input terminals and strain relief for incoming speaker wire.

MTC-xxSSG and MTC-xxWMG: SSG stainless steel retrofit grilles for Control 23, 25, and 28. WMG WeatherMax™ grilles add a foam and tight-weave backing to break up driving rain.

MOUNTING BRACKETS

MTC-xxUB* U-BRACKET



MTC-xxH* HORIZONTAL ARRAY BRACKETS



3) MTC-xxH* AS CLUSTER MODULE BRACKET (SHOWN PARTIAL)

MTC-xxUB*: U-brackets for installing Control 29AV, 30 and SB210. Available in black or white.

MTC-xxH* Horizontal Array Brackets: Allows horizontal arraying of two Control 23, 25 or 28 speakers. MTC-H brackets can be interconnected to form a suspended ring for mounting 6 or 3 speakers in a 360° cluster module.



MTC-xxV* VERTICAL ARRAY BRACKETS



MTC-xxCM* CEILING BRACKETS



SB-2 BRACKETS

MTC-xxV* Vertical Array Brackets:

Allows vertical end-to-end mounting of up to three Control 23, 25, or 28 speakers.

MTC-xxCM* Ceiling Brackets:

The curved arm allows installation of Control 23, 25, 28, 29AV or 30 speakers down from a ceiling.

MTC-30MK-WH: Marine grille kit for Control 30 (white only).

SB-2 Installation Brackets:

The MTC-SB2W wall/corner bracket allows mounting of the subwoofer onto a wall surface or into a corner. The MTC-SB2C ceiling bracket enables suspension of the SB-2 from above, projecting downward into the listening area.

PMB-BK and PMB-WH: Control CRV pole-mount bracket for 4-speaker 360° hanging pendant cluster.

Various adaptors for installing via threaded pipe or rod available from third party. Contact JBL for information.

*These models are available in different sizes. Specify speaker model when ordering.



CONTROL SB-2



CONTROL SB210



specifications

	CONTROL 23/23T	CONTROL 25/25T	CONTROL 25AV	CONTROL 25AV-LS	CONTROL 28/28T-60	CONTROL CRV
FREQUENCY RANGE (-10 dB) ¹	85 Hz - 22 kHz (23) 100 Hz - 21 kHz (23T)	80 Hz - 16 kHz (25) 80 Hz - 15 kHz (25T)	70 Hz - 23 kHz	90 Hz - 23 kHz	60 Hz - 16 kHz (28) 55 Hz - 15 kHz (28T-60)	80 Hz - 20 kHz
POWER CAPACITY: PROGRAM ² PINK ³	50 W (23) 25 W (23)	150 W (25) 75 W (25)	200 W 100 W	200 W 100 W	175 W (28) 87 W (28)	150 W 60 W
NOMINAL COVERAGE	90° x 90°	90° x 90°	100° x 100°	110° x 85°	90° x 90°	105° x 80°
SENSITIVITY: 1 W, 1 m	86 dB SPL (23)	88 dB SPL (25)	87 dB SPL	87 dB SPL	92 dB SPL (28)	89 dB SPL
NOMINAL IMPEDANCE	8 ohms (23)	8 ohms (25)	8 ohms	8 ohms	8 ohms (28)	4 ohms
COMPONENTS: LOW FREQ.	3 1/2 in (88 mm)	5 1/4 in (135 mm)	5 1/4 in (130 mm)	5 1/4 in (130 mm)	8 in (200 mm)	2 x 4 in (100 mm)
HIGH FREQ.	1/2 in (13 mm)	3/4 in (19 mm)	3/4 in (20 mm)	3/4 in (20 mm)	1 in (25 mm)	3/4 in (19 mm)
TRANSFORMER TAPS: 100V 70.7V	10 W (23T) 5 W (23)	30, 15, 7.5 W (25T) 30, 15, 7.5, 3.7 W (25T)	60, 30, 15 W 60, 30, 15, 7.5 W	60, 30, 15 W 60, 30, 15, 7.5 W	60, 30, 15 W (28T-60) 60, 30, 15, 7.5 W (28T-60)	30 W, 15 W, 7.5 W 30 W, 15 W, 7.5 W, 3.8 W
ENCLOSURE	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	ABS
FINISH	Black or white (-WH)	Black or white (-WH)	Black or white (-WH)	Black or white (-WH)	Black or white (-WH)	Black or white (-WH)
DIMENSIONS (H x W x D)	193 x 140 x 111 mm 7.6 x 5.5 x 4.4 in	236 x 188 x 149 mm 9.3 x 7.4 x 5.8 in	236 x 186 x 159 mm 9.3 x 7.4 x 6.3 in	236 x 186 x 159 mm 9.3 x 7.4 x 6.3 in	380 x 280 x 220 mm 15.0 x 11.0 x 8.6 in	127 x 364 x 262 mm 5 x 14.4 x 10.3 in
NET WEIGHT (each)	1.8 kg (4 lb) (23) 2.2 kg (5 lb) (23T)	2.3 kg (5 lb) (25) 3.6 kg (8 lb) (25T)	4.0 kg (9 lb)	3.8 kg (9 lb)	5.5 kg (12 lb) (28) 6.3 kg (14 lb) (28T-60)	3.2 kg (7 lb)

¹ Half-space (on wall).

² Continuous Program Power, which is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise rating (IEC-shaped pink noise with a 6 dB crest factor, for 100 hours continuously).

³ Continuous Pink Noise for 100 hours.


	CONTROL 29AV-1	CONTROL 30	CONTROL SB-2	CONTROL SB210
FREQUENCY RANGE (-10 dB) ¹	37 Hz - 18 kHz	38 Hz - 17 kHz	38 Hz - 160 Hz	42 Hz - 200 Hz
POWER CAPACITY: PROGRAM ² PINK ³	300 W 150 W	500 W 250 W	340 W (both inputs) 170 W (both inputs)	800 W 400 W
NOMINAL COVERAGE	110° x 85° (rotatable)	120° x 110°	N/A	N/A
SENSITIVITY: 1 W, 1 m	90 dB SPL	93 dB SPL	94 dB SPL (on wall) 100 dB SPL (near corner)	96 dB SPL (on wall) 102 dB SPL (near corner)
NOMINAL IMPEDANCE	8 ohms	4 ohms	8 ohms per input	8 ohms
COMPONENTS: LOW FREQ.	8 in (200 mm)	10 in (250 mm)	10 in (250 mm) long-throw with dual voice coils	2 x 10 in (250 mm)
MID FREQ.	1 in (25 mm) comp. driver	5 in (125 mm)		
HIGH FREQ.	1 in (25 mm) comp. driver	1 in (25 mm) comp. driver		
TRANSFORMER TAPS: 100V 70.7V	110, 55, 28 W 110, 55, 28, 14 W	150, 75, 38 W 150, 75, 38, 19 W		
ENCLOSURE	HIPS (High Impact Polystyrene)	HIPS (High Impact Polystyrene)	Particle Board	HIPS (High Impact Polystyrene)
FINISH	Black or white (-WH)	Black or white (-WH)	Black	Black or white (-WH)
DIMENSIONS (H x W x D)	520 x 306 x 277 mm 20.5 x 12.0 x 10.9 in	593 x 372 x 345 mm 23.3 x 14.6 x 13.5 in	394 x 585 x 343 mm 15.5 x 23.0 x 13.5 in	335 x 590 x 570 mm 14 x 23.3 x 22.5 in
NET WEIGHT (each)	12.2 kg (27 lb)	18.9 kg (42 lb)	19.1 kg (42 lb)	17.1 kg (38 lb)

Control® Contractor

In-Wall Speakers

key features

- MINIMAL VISUAL IMPACT
- HIGH POWER HANDLING CAPABILITY
- EASY TO INSTALL IN STANDARD STUD-WALL CONSTRUCTION
- 70V/100V VERSIONS AVAILABLE



JBL Control 126W/WT and 128W/WT are premium in-wall speakers designed for applications where top performance from a loudspeaker with minimal visual impact is required. The Control 100 Series speakers are voiced similarly to other JBL Control Contractor models, allowing mixing with surface-mount and in-ceiling speakers within a single listening space. The premium sound quality makes these loudspeakers ideal for critical listening environments, yet they are high power and rugged enough to handle venues requiring high-SPL, heavy duty-cycle music.

CONTROL 126 W/WT and CONTROL 128W/WT

The **Control 126 W** and **Control 128 W** feature high performance woofers with a polymer coated aluminum cone, pure butyl rubber surround for long life and high reliability, and extended polepiece magnet design for long excursion and high reliability. The pure titanium dome high frequency driver is loaded with a built-in EOS™ (Elliptical Oblate Spheroidal) waveguide for low distortion and a smooth frequency response. A low-diffraction swivel mounting system enables the user to direct high frequencies where required without the diffraction distortion inherent in other aimable tweeter designs. A high-slope crossover network maintains natural midrange sound and produces more even coverage throughout the listening area.

The speakers fit into the wall space of ordinary stud-wall construction. An optional rough-in frame is available for installing the speakers into standard stud walls in new construction projects. As is the case with all Control Contractor speakers, the baffles and grilles are paintable to match any décor.

The optional Control 126WT and Control 128WT include 70V/100V transformers for use on distributed loudspeaker lines.

specifications

	CONTROL 126W/WT	CONTROL 128W/WT
FREQUENCY RANGE (-10 dB) ¹	38 Hz - 20 kHz	30 Hz - 20 kHz
POWER CAPACITY: PROGRAM ²	100 W	120 W
PINK ²	50 W	60 W
SENSITIVITY: 1 W, 1 m	88 dB SPL	90 dB SPL
NOMINAL IMPEDANCE	8 ohms	8 ohms
TRANSFORMER TAPS: 100V	30, 15, 7.5 W (126WT)	50, 25, 12 W (128WT)
70.7 V	30, 15, 7.5, 3.7 W (126WT)	50, 25, 12, 6 W (128WT)
COMPONENTS: LOW FREQ.	6 1/2 in (165 mm)	8 in (200 mm)
HIGH FREQ.	1 in (25 mm)	1 (25 mm)
TERMINATION	Screw-down Euroblock type	Screw-down Euroblock type
OPTIMUM AIR CAVITY	20 - 40 liters (0.7 to 1.4 cu. ft.)	40 - 80 liters (1.4 to 2.8 cu. ft.)
BEHIND SPEAKER		
ROUGH-IN FRAME	MTC-126RIF	MTC-128RIF
DIMENSIONS	280 x 215 x 105 mm	334 x 257 x 110 mm
(H x W x D)	11 x 8.5 x 4.1 in	13.1 x 10.1 x 4.3 in
NET WEIGHT (each)	126W: 2.1 kg (4.5 lb)	128W: 2.6 kg (5.5 lb)
	126WT: 2.7 kg (5.9 lb)	128WT: 3.3 kg (7.2 lb)

¹ Half-space (mounted in-wall or in ceiling)

² Continuous Program Power, which is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise rating (IEC-shaped pink noise with a 6 dB crest factor, for 100 hours continuously).

³ Rated in Continuous Pink Noise for 100 hours.

Control® 300 Series

Large Format Ceiling Speakers

key features

- VERY HIGH OUTPUT LEVELS WITH HIGH FIDELITY PERFORMANCE
- EASY TO DESIGN AND INSTALL
- PRECISION COVERAGE
- PREMIUM ACCESSORIES



Control 300 Series represents the state of the art in large-format ceiling loudspeaker systems. True point-source coax designs, multiple power levels and transformer choices, plus an in-ceiling subwoofer, make it easy to fulfill any system performance requirements. Premium components include Kevlar-reinforced cones, low-saturation transformers and legendary JBL compression drivers. Advanced high-slope crossover networks, combined with low system distortion and smooth frequency response provides full, natural music along with exceptional speech intelligibility.

In these Control 300 coax models, the throat and cone combine to form a Constant Coverage waveguide which provides extraordinary broadband control, ensuring even coverage and consistent sound throughout the listening space. And Control 328 goes a step further with a 12" diameter waveguide, providing the pattern control of a 12" horn from an 8" driver.

The EZ-Rail™ feature (on 12" models) provides a "helping hand" to hold one side of the loudspeaker in place while fastening it to a pre-installed back box. A multi-pin locking connector allows for easy pre-wiring and quick clip-in during installation.

ACCESSORIES: Premium accessories include best-in-class back boxes made of heavy 16 gauge metal and lined with 1/2" MDF, as well as contemporary grilles and an optional higher power transformer. Accessories include:

	MTC-300BB8	MTC-300BB12	MTC-RG6/8	MTC-SG6/8	MTC-300SG12	MTC-TB6/8	MTC-300T150
DESCRIPTION	Premium 1 cu ft (28 cu l) Cylindrical Backbox	Premium 3 cu ft (28 cu l) Rectangular Backbox	Round Grille for 6 in (152mm) and 8 in (200 mm) systems	Sq. Grille for 6 in (152mm) and 8 in (200 mm) systems	Square Grille for 12 in (300 mm) systems	Tile bridge for 6 in (152 mm) and 8 in (200 mm) systems	150 W Accessory Transformer
FITS:	Control 328C/CT and 227C/CT	Control 321C/CT, 322C/CT and 312CS	Control 227C/CT and 328C/CT	Control 227C/CT and 328C/CT	Control 321C/CT, 322C/CT and 312CS	Control 227C/CT and 328C/CT	Mounting studs included on MTC-300BB12
DIMENSIONS:	15 dia x 10.6 in deep (380 x 270 mm)	23.1 x 18.2 x 12.6 in (587 x 461 x 324 mm)	13.6 in dia x 0.64 in deep (345 x 16.3 mm)	13.4 x 13.4 x 0.4 in deep (340 x 340 x 10 mm)	16.3 x 16.3 x 0.4 in deep (415 x 415 x 10 mm)	25.4 x 16.25 in (646 x 413 mm)	3.4 x 3.4 x 3.1 in (86 x 86 x 78 mm)

specifications

	Control 328C/CT	Control 321C/CT	Control 322 C/CT	Control 312CS
SYSTEM TYPE	8" Coaxial Ceiling Loudspeaker with HF Compression Driver	12" Coaxial Ceiling Loudspeaker with HF Compression Driver	High-output 12" Coaxial Ceiling Loudspeaker	12" In-Ceiling Subwoofer Loudspeaker
FREQUENCY RANGE (-10 dB)¹	45 Hz – 18 kHz	34 Hz – 18 kHz	32 Hz – 20 kHz	30 Hz – 4.5 kHz
POWER CAPACITY: PROGRAM²	500 W	500 W	800 W	800 W
PINK³	250 W	250 W	400 W	400 W
NOMINAL COVERAGE	120° conical	90° conical	90° conical	
SENSITIVITY: 1W, 1m	93 dB	94 dB	95 dB	93 dB
NOMINAL IMPEDANCE	8 ohms	8 ohms	8 ohms	8 ohms
TRANSFORMER TAPS: 100V	60, 30 15 W	60, 30, 15, 7.5 W	100, 50, 25 W	n/a
70V	60, 30, 15, 7.5 W	Optional 150W with MTC-300T150	100, 50, 25, 12.5 W	n/a
COMPONENTS: LF	8 in (200 mm)	12 in (300 mm)	12 in (300 mm)	12 in (300 mm)
HF	1" diaphragm compression driver	1" diaphragm compression driver	1.5" diaphragm compression driver	
TERMINATION	Screw-down removable locking connector	Screw-down removable locking connector	Screw-down removable locking connector	Screw-down removable locking connector
DIMENSIONS (W)	12 in (305 mm) diameter round baffle	14.4 x 14.4 in (366 x 366 mm) square baffle	14.4 x 14.4 in (366 x 366) square baffle	14.4 x 14.4 in (366 x 366 mm) square baffle
(D)	6.3 in (160 mm) for C328C	8.8 in (223 mm) for C321C	8.8 in (223 mm) for C322C	6.3 in (160 mm)
	8.6 in (218 mm) for C328CT	9.5 in (240 mm) for C321CT	9.5 in (240 mm) for C322CT	
NET WEIGHT (each)	4.5 kg (10 lb) for C328C	7.3 kg (16 lb) for C321C	9.1 kg (20 lb) for C322C	
	5.4 kg (12 lb) for C328CT	8.2 kg (18 lb) for C321CT	10.0 kg (22 lb) for C322CT	

¹ IEC filtered random noise (50 Hz - 5 kHz) with a crest factor (peak to average ratio) of 6 dB

² Continuous Program Power, which is a conservative expression of the system's ability to handle normal speech and music program material and is defined as 3 dB above the Continuous Pink Noise rating (IEC-shaped pink noise with a 6 dB crest factor).

³ Continuous Pink Noise for 2 hours.

Control® 200 Series

Medium Format Ceiling Speakers

key features

- 6.5" KEVLAR-REINFORCED LF
- 1" EXIT COMPRESSION DRIVER HF
- INTEGRATED & INDEPENDENT BACKCAN VERSIONS
- HIGH OUTPUT, PREMIUM SOUND QUALITY

CONTROL 227C

CONTROL 226C/T

CONTROL 227CT

CONTROL 227C & 227CT
Assembly with Backcan
and Grille.



Control 226C/T, 227C and 227CT are premium in-ceiling speakers designed to meet the increasing market demand for premium quality sound in ceiling-mount applications. The Control 200 Series loudspeakers incorporate breakthrough performance features such as best-in-class pattern control to provides a consistent sound throughout the listening area. Especially wide coverage allows fewer speakers to cover the space, reducing both the material and labor cost for the installation.

The high-power kevlar-reinforced 6.5 in (165 mm) low-frequency driver along with the titanium-diaphragm compression driver and the advanced-technology steep-slope crossover network provide superb, wide-bandwidth sound quality.

CONTROL 226C/T

Control 226C/T is a compact, easy-to-install speaker with integrated backcan for blind-mounting into ceilings. It features a top-quality 60 W multi-tap transformer for 70V/100V line distribution systems. The transformer may be bypassed, allowing the Control 226C/T to be used as a low-impedance 8 ohm speaker.

C-ring, tile rails and grille are included. This model is designed to be able to utilize the optional MTC-19NC new construction ring and MTC-19MR plaster-ring for new construction projects requiring pre-installation rings.

CONTROL 227C

Control 227C is a high-output, low-impedance 8 ohm speaker assembly for installation with the separate MTC-200BB8 backcan and MTC-RG6/8 grille (both sold separately). Optional accessories include MTC-19NC new construction ring, MTC-19MR plaster-ring, and MTC-TB6/8 tile bridge.

CONTROL 227CT

Control 227CT is a 70V/100V version of Control 227C, featuring a top-quality 60 W multi-tap transformer for 70V/100V line distribution systems.

PREMIUM ACCESSORIES

MTC-200BB8: Backcan for Control 227C and 227CT. 13.3 inches (337 mm) max diameter x 8.1 inches (206 mm) deep.

MTC-RG6/8: Round grille for Control 227C and 227CT. Also fits Control 328C & 328CT. 13.6 inches (345 mm) in diameter

MTC-SG6/8: Square grille for Control 227C and 227CT. Also fits Control 328C & 328CT. 13.4 inches (340 mm) x 13.4 inches (340 mm).

MTC-TB6/8: Tile bridge for Control 227C and 227CT. Also fits Control 328C & 328CT.

MTC-19NC & MTC-19MR: New-construction and mud rings fit Control 226 for new construction applications requiring pre-installation rings.

CONTROL 226C/T

FREQUENCY RANGE (-10 dB) ¹	47 Hz – 19 kHz
POWER CAPACITY: PROGRAM	300 W
PINK (2 hr) ²	150 W
(100 hr) ²	100 W
SENSITIVITY: 1 W, 1 m	90 dB
NOMINAL IMPEDANCE	8 ohms
NOMINAL COVERAGE ³	120°
COMPONENTS: LOW FREQ.	6.5 in (165 mm)
HIGH FREQ.	1 in (25 mm) diaphragm compression driver
TRANSFORMER TAPS: 100V	60W, 30W, 15W
70.7V	60W, 30W, 15W, 7.5W
DIMENSIONS (DIA. X DEPTH)	13 x 9.7 in (330 x 246 mm)
NET WEIGHT (each)	9.1 kg (20 lb)

CONTROL 227C & 227CT

43 Hz – 19 kHz
300 W
150 W
100 W
90 dB
8 ohms (227C)
120°
6.5 in (165 mm)
1 in (25 mm) diaphragm compression driver
60W, 30W, 15W (227CT)
60W, 30W, 15W, 7.5W (227CT)
12.0 x 5.8 in (305 x 147 mm)
4.1 kg (9 lb) 227C
5.2 kg (11.5 lb) 227CT



CONTROL 226C/T

Control 200 models are available both in an independent backcan design (Control 227C & 227CT) and in an integrated backcan version (Control 226C/T).

¹ Half-space (in ceiling)

² IEC standard, full bandwidth pink noise with a crest factor (peak to average ratio) of 6 dB.

³ Average 1 kHz to 16 kHz.

Control® 40 Series Extended Performance Small Format Ceiling Speakers

key features

- DESIGNED FOR HIGH-DEMAND PROFESSIONAL APPLICATIONS
- THREE COAXIAL MODELS PLUS AN ULTRA-COMPACT SATELLITE SPEAKER AND IN-CEILING SUBWOOFER
- INTEGRATED BACKCANS FOR EASE-OF-USE IN THE FIELD
- SWITCHABLE FOR USE AS AN 8 OHMS SPEAKER OR AS PART OF A 70V/100V DISTRIBUTED SYSTEM (EXCEPT 42C)

CONTROL 42C

CONTROL 47C/T

CONTROL 47LP

CONTROL 47HC

CONTROL 40CS/T



The Control 40 Series Ceiling Speakers are designed to work perfectly in environments that require a premium, in-ceiling speaker with an extremely wide bandwidth and consistent coverage. Consisting of three 6.5" coaxial models, a 2.5" ultra-compact satellite speaker and in-ceiling subwoofer, the Control 40 Series can be configured in many different ways to accommodate a full range of applications in the field. JBL focused on ease-of-installation by including an integrated backcan, grille and tile rails (except Control 42C), locking 2-pin connectors and two knockouts. The Control 40 Series ceiling speakers are designed for use in air handling spaces.

CONTROL 47C/T

The **Control 47C/T** and **Control 47LP** are designed for applications that require extremely wide bandwidth and very consistent coverage. JBL's RBI™ (Radiation Boundary Integrator®) allows for a seamless integration between the coaxially mounted tweeter and LF driver, resulting in consistent sound quality with little variation in the listening area.

CONTROL 47LP (Low Profile Backcan)

The **Control 47LP** is identical to the Control 47 but equipped with a shallow backcan for use in areas with restricted mounting depths.

CONTROL 47HC

The **Control 47HC** is designed for applications that require a narrow focused beamwidth pattern and very consistent coverage. The large backcan in combination with the LF driver design, provides extended bass response.

CONTROL 42C

The **Control 42C** is an ultra-compact in-ceiling satellite loudspeaker designed for use with the Control 40CS/T subwoofer. It offers an unobtrusive design which is ideal for a wide range of installations.

CONTROL 40CS/T

The **Control 40CS/T** is a direct radiating, high impact 8" subwoofer designed for powerful bass response in an in-ceiling loudspeaker. It features a built-in passive crossover network and 4 high-passed satellite outputs enabling it to be used as part of a subwoofer/satellite system.

specifications

	CONTROL 47C/T	CONTROL 47LP	CONTROL 47HC	CONTROL 42C	CONTROL 40CS/T
SYSTEM TYPE	Two-Way 6.5" Coaxial Ceiling Loudspeaker w/ Extended Bass	Two-Way 6.5" Coaxial Ceiling Low Profile Loudspeaker	Two-Way 6.5" Coaxial Ceiling Loudspeaker for High Ceilings	2.5" Ultra-Compact In-Ceiling Satellite Loudspeaker	8" In-Ceiling Subwoofer with Crossover
FREQUENCY RANGE (-10dB) ¹	55 Hz - 20 kHz	68 Hz - 20 kHz	55 Hz - 17 kHz	140 Hz - 20 kHz	32 Hz - 300 Hz
POWER CAPACITY ² : PROGRAM PINK	150 W 75 W	150 W 75 W	150 W 75 W	30 W 15 W	200 W 100 W
NOMINAL DISPERSION ³	120° conical	120° conical	75° conical	160° conical	Omnidirectional
NOMINAL SENSITIVITY 1 W, 1 m	91 dB	91 dB	93 dB	82 dB	95 dB (ceiling, near corner) 89 dB (center of ceiling)
RATED IMPEDANCE	8 ohms	8 ohms	8 ohms	16 ohms	8 ohms
TRANSFORMER TAPS	60 W, 30 W, 15 W, (& 7.5 W @ 70 V)	60 W, 30 W, 15 W, (& 7.5 W @ 70 V)	60 W, 30 W, 15 W, (& 7.5 W @ 70 V)	N/A	80, 40, 20 (& 10 W @ 70 V)
COMPONENTS: LOW FREQ.	6 1/2 in (165 mm)	6 1/2 in (165 mm)	6 1/2 in (165 mm)		8 in (200 mm)
HIGH FREQ.	1 in (25 mm)	1 in (25 mm)	1 in (25 mm)	2 1/2 in (60 mm)	
ENCLOSURE	Formed steel backcan	Formed steel backcan	Formed steel backcan	Formed steel backcan	Formed steel backcan
DIMENSIONS (DIAMETER x DEPTH)	305 x 259 mm 12 x 10.2 in	305 x 142 mm 12 x 5.6 in	332 x 351 mm 13.1 x 13.8 in	127 x 94 mm 5.0 x 4.2 in	332 x 338 mm 13.1 x 13.3 in
NET WEIGHT (each)	5 kg (11 lb)	4.3 kg (9.5 lb)	6.4 kg (14 lb)	.7 kg (1.6 lb)	8.1 kg (17.9 lb)

Control® Contractor Premium Small Format Ceiling Speakers

key features

- ALL-IN-ONE CONVENIENCE FOR FAST INSTALLATION AND EASY STOCKING
- PREMIUM PERFORMANCE
- AGENCY APPROVED FOR USE IN AIR HANDLING SPACES
- SONICGUARD™ OVERLOAD PROTECTION

JBL Control Contractor Ceiling Speakers deliver high power handling, overload protection and exceptional sound level capability and are packaged as complete assemblies, including integral backcan, front grille and tile bridge support hardware. Innovative design features such as titanium-coated tweeters and JBL's unique diffraction-horn loading provide broad, even coverage throughout the listening area.

Installation of JBL Control Contractor Ceiling Speakers is quick and easy and can be accomplished without requiring access above the ceiling. Bracketry for suspended ceilings is included. The speaker is held securely in place via mounting ears which rotate into position and lock into place. Inputs are attached to a removable locking connector (included) which can be prewired before installing for ultra-fast snap-on installation. All models (except 26-DT) contain formed steel backcans and are suitable for use in air handling spaces per UL1480 and UL2043. Specific models (noted below) feature top quality transformers pre-installed inside the speaker assembly for use on 70V/100V distributed lines. Tap selection is conveniently located on the front of the speaker (except Micro).

CONTROL 24C/CT MICRO AND CONTROL 24CT MICROPLUS

The Control 24C/CT Micro and Control 24CT MicroPlus are compact, easy-to-install in-ceiling speakers, providing full, high quality sound for background music and music-plus-paging systems and include multi-tap transformers.



24C/CT MICRO
24CT MICROPLUS

CONTROL 26-DT

The Control 26-DT is an 8" driver assembly designed for sound systems requiring a higher fidelity sound and easy installation into standard backcans. A high quality, low insertion-loss transformer is supplied for use on 70V/100V distributed lines.



26-DT

ACCESSORIES

New Construction Bracket: MTC-xxNC*
Plaster Ring Bracket: MTC-xxMR*

Trim Rings: Allow for installation into existing ceiling speaker cutouts that are larger than the speaker's normal cutout size. MTC-xxTR*.

* These models are available in different sizes. Specify speaker model when ordering.

CONTROL 24C/CT

The Control 24C contains a coaxially mounted 4" woofer and 3/4" titanium-coated tweeter, providing high-fidelity sound over a wide coverage area. The Control 24CT is available in black (C24CT-BK).

CONTROL 26C/CT and CONTROL 26CT-LS

The Control 26C contains a coaxially mounted 6 1/2" woofer and 3/4" titanium-coated tweeter, able to deliver maximum sound level over a defined area. The Control 26CT-LS is UL1480/UUMW certified for use in fire alarm and voice evacuation systems.

CONTROL 19CS/CST

The unique Nested-Chamber design and Linear Dynamic™ port of the JBL Control 19CS subwoofer allows powerful low-frequency reinforcement from a compact in-ceiling enclosure. The Control 19CS is an ideal addition to any system, resulting in full-fidelity, high level sound. The optional Control 19CST has a special subwoofer-band transformer for use on 70V or 100V line distribution systems.



24C/CT

26C/CT
26CT-LS

19CS/CST



specifications

	24C/CT MICRO 24CT MICROPLUS	24C/CT & 24 CT-BK	26C/CT & 26CT-LS	26-DT	19CS/CST
FREQUENCY RANGE (-10dB) ¹	85 Hz - 25 kHz	80 Hz - 20 kHz	75 Hz - 20 kHz (26C/CT) 80 Hz - 20 kHz (26CT-LS)	70 Hz - 20 kHz	42 Hz - 200 Hz
POWER CAPACITY: PROGRAM ² PINK ³	30 W 15 W	80 W 40 W	150 W 75 W		200 W 100 W
NOMINAL DISPERSION	150° conical	130° conical	110° conical	90°	Omnidirectional
NOMINAL SENSITIVITY 1 W, 1 m	86 dB	86 dB	89 dB	89 dB (60 W tap)	95 dB (ceiling, near corner) 89 dB (center of ceiling)
NOMINAL IMPEDANCE	8 ohms (24C Micro)	16 ohms (24C)	16 ohms (26C)		8 ohms (19CS)
TRANSFORMER TAPS: 100V	8, 4, 2, 1 W (24CT Micro) 25, 12 W (24CT MicroPlus)	30, 15, 7.5 W (24CT)	60, 30, 15 W (26CT)	60, 30, 15 W	60, 30, 15 W (19CST)
70.7 V	8, 4, 2, 1, .5 W (24CT Micro) 25, 12, 6 W (24CT MicroPlus)	30, 15, 7.5, 3.7 W (24CT)	60, 30, 15, 7.5 W (26CT)	60, 30, 15, 7.5 W	60, 30, 15, 7.5 W (19CST)
COMPONENTS: LOW FREQ.	4 1/2 in (115 mm)	4 in (100 mm)	6 1/2 in (165 mm)	6 1/2 in (165 mm) *	8 in (200 mm)
HIGH FREQ.	1/2 in (12 mm)	3/4 in (19 mm)	3/4 in (19 mm)	3/4 in (19 mm)	
ENCLOSURE	Formed steel backcan	Formed steel backcan	Formed steel backcan		Formed steel backcan
DIMENSIONS (H x DIA.)	106 x 195 mm 4.2 x 7.7 in	200 x 195 mm 7.9 x 7.7 in	210 x 252 mm 8.3 x 9.9 in	120 x 200 mm 4.72 x 7.87 in	345 x 345 mm 13.6 x 13.6 in
NET WEIGHT (each)	24C Micro: 1.6 kg (3.6 lb) 24CT Micro: 2.0 kg (4.4 lb) 24CT MicroPlus: 2.5 kg (5.5 lb)	24C: 2.7 kg (6 lb) 24CT: 3.5 kg (8 lb)	26C: 3.4 kg (7.5 lb) 26CT: 4.2 kg (10 lb)	1.9 kg (4.2 lb) * 8" compatible mounting	19CS: 5.5 kg (12 lb) 19CST: 6.3 kg (14 lb)

¹ Half-space (mounted in-wall or in ceiling)

² Continuous Program Power, which is a conservative expression of the system's ability to handle normal speech and music program material

and is defined as 3 dB above the Continuous Pink Noise rating (IEC-shaped pink noise with a 6 dB crest factor, for 100 hours continuously).
³ Rated in Continuous Pink Noise for 100 hours.

8100 Series

Sculpted Grille Dual-Cone Ceiling Speakers

key features

- HIGH SENSITIVITY FOR MAXIMUM POWER EFFICIENCY
- 6W TRANSFORMER FOR USE ON 70V / 100V DISTRIBUTED LINES

- 8124 & 8128—OPEN-BACK DESIGN FOR APPLICATIONS NOT REQUIRING AN IN-CEILING BACKCAN
- 8128—PRE-INSTALL BACKCAN DESIGN



The 8124 and 8128 Ceiling Speakers are designed for fast and easy installation with built-in dog-ears for easy installations, light weight and open-back design for applications not requiring an in-ceiling backcan.



The 8124 (4-inch (100 mm) full-range loudspeaker) and the 8-inch (200 mm) full-range loudspeakers feature high sensitivity drivers that deliver maximum sound levels using minimal amplifier power. (8128/8130 shown)



70V/100V taps for ease-of-use in the field. For additional installation help, accessories such as the MTC-RAIL tile rail sets and C-Rings are available separately.

High sensitivity at a cost-effective price point, the 8100 Series is an easy to install loudspeaker solution for a wide variety of commercial sound applications. With its contemporary grill design, the 8100 Series loudspeakers are ideal for a variety of settings ranging from restaurant and retail settings to professional offices and reception areas. All models feature 70V/100V taps.

8124

The **8124** is a 4-inch (100 mm) full-range loudspeaker, featuring a high sensitivity driver that provides 130° conical coverage in a lightweight (2.5 lb) package.

8128

The **8128** is an 8-inch (200 mm) full-range loudspeaker, featuring a high sensitivity driver that provides 90° conical coverage in a lightweight (3.0 lb) package.

8138

The **8138** is an 8-inch (200 mm) full-range loudspeaker designed for use with a pre-install in-ceiling backcan, resulting in high sensitivity performance at a cost effective price point.



The 8100 Series is equipped with a contemporary grille, allowing the speakers to blend with a variety of interiors.

ACCESSORIES

Because of the very light weight of 8124 and 8128, tile rails may not be required for some in-ceiling applications. They are not packaged with these models, however MTC-RAIL tile rail sets and MTC-8124C and MTC-8128C C-Rings are available separately. The 8138 is designed for use with MTC-81BB8 backcan and MTC-81TB8 tile bridge.

specifications

	8124	8128	8138
SYSTEM TYPE	100 mm (4 in) Full-Range	200 mm (8 in) Full-Range	200 mm (8 in) Full-Range
FREQUENCY RANGE (-10dB)	60 Hz – 18 kHz	50 Hz – 16 kHz	95 Hz – 18 kHz
DRIVER POWER CAPACITY	20 W	25 W	25 W
NOMINAL DISPERSION	130° conical	90° conical	90° conical
NOMINAL SENSITIVITY 1 W, 1 m	93 dB (1 kHz - 8 kHz)	97 dB (1 kHz - 8 kHz)	97 dB (1 kHz - 8 kHz)
NOMINAL IMPEDANCE	8 ohms	8 ohms	8 ohms
TRANSFORMER TAPS: 100V 70.7 V	6 W, 3 W, 1.5 W 6 W, 3 W, 1.5 W, 0.75 W	6 W, 3 W, 1.5 W 6 W, 3 W, 1.5 W, 0.75 W	6 W, 3 W, 1.5 W 6 W, 3 W, 1.5 W, 0.75 W
DIMENSIONS (DIA. x DEPTH)	206 mm (8.1 in) diameter round baffle x 89 mm (3.5 in) depth from back of baffle	287 mm (11.3 in) diameter round baffle x 104 mm (4.1 in) depth from back of baffle	327 mm (12.9 in) diameter round baffle x 84 mm (3.3 in) depth from back of baffle
BACKCAN	Open-back, no backcan	Open-back, no backcan	MTC-81BB8 backcan with MTC-81TB8 tile bridge
CUTOUT DIMENSION	175 mm diameter (6.9 in)	256 mm diameter (10.1 in)	300 mm diameter (11.75 in) with tile bridge & backbox
NET WEIGHT (each)	1.2 kg (2.5 lb)	1.4 kg (3.0 lb)	1.4 kg (3.0 lb)



The **8138** fits the MTC-81BB8 backcan and MTC-81TB8 tile bridge, or can be used with most in-ceiling backcan/tile bridge systems designed with four mounting points on a 286 mm (11 1/4 in) diameter mounting circle.

Commercial Series

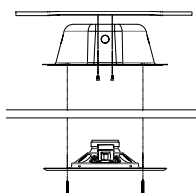
CSS Ceiling and Surface-Mount Speakers

key features

➤ AFFORDABLY PRICED

➤ SURFACE-MOUNT SPEAKER HANDLES 100V, 70V AND LOW-IMPEDANCE

➤ CEILING SPEAKERS COME PRE-ASSEMBLED WITH GRILLE, SPEAKER AND TRANSFORMER AND HANDLE 100V, 70V AND 25V DISTRIBUTED SYSTEMS



JBL introduces the new Commercial Series affordable loudspeakers that provide excellent performance for paging and background music applications including retail stores, restaurants, schools and other public facilities. High sensitivity provides maximum sound level even at low tap settings, and wide dispersion ensures excellent coverage. Triple voltage transformers (100V, 70V and 25V) are compatible with any distributed speaker system, and the Commercial Series meets UL1480 and UL2043 requirements for use in plenum ceiling spaces.

CSS8004, CSS8008 and CSS8018

The drivers all feature a full 25 mm (1 in) diameter voice coil with a Kapton™ coil-former and high-temperature wire for superior power dissipation and long-term reliability. The driver, grille and transformer come pre-assembled for ease of installation. Accessories include matching Commercial Series pre-install back cans and tile rails.

CSS8004, CSS8008 and CSS8018 ACCESSORIES

MTC-BB4x6: Pre-install backcan for CSS8004. Pack of 6 pcs; **MTC-BB8x6:** Pre-install backcan for CSS8008 and CSS8018. Pack of 6 pcs; **MTC-TR4/8x12:** Tile rails for CSS-BR4 and CSS-BR8 backcans. Pack of 12 pcs. for 6 speakers.

CSS-1S/T

CSS-1S/T is a versatile, compact two-way loudspeaker designed for use on 100V or 70V distributed speaker lines, or in 8 ohm direct mode. The 135 mm (5.25 inch) low frequency loudspeaker and 19 mm (.75 inch) polycarbonate dome tweeter reproduce full-range sound quality for foreground or background music and are voiced for maximum speech clarity and intelligibility. Wall-mount bracket included.



specifications

	CSS8004	CSS8008	CSS8018	CSS-1S/T
DRIVER SIZE (DUAL CONE)	100 mm (4 in)	200 mm (8 in)	200 mm (8 in)	135 mm (5.25 in) plus 19 mm (.75 in)
DRIVER SENSITIVITY (MID-RANGE)	90 dB	96 dB	97 dB	86 dB
FREQUENCY RANGE (-10 dB)	85 Hz – 18 kHz	55 Hz – 16 kHz	50 Hz – 17 kHz	n/a
DRIVER /GRILLE ASSEMBLY	130 Hz – 18 kHz	100 Hz – 16 kHz	90 Hz – 17 kHz	120° x 120°
COVERAGE	175°	120°	110°	60W
DRIVER POWER HANDLING ¹	15 W	15 W	20 W	10 W, 5 W and 8 ohms
TRANSFORMER TAPS: 100V	5 W, 2.5 W, 1.3 W	5 W, 2.5 W, 1.3 W, 0.7 W	10 W, 5 W, 2.5 W	10 W, 5 W, 2.5 W and 8 ohms
70.7 V	5 W, 2.5 W, 1.3 W, 0.7 W	5 W, 2.5 W, 1.3 W, 0.7 W	10 W, 5 W, 2.5 W, 1.3 W	n/a
25 V	5 W, 2.5 W, 1.3 W, 0.7 W	5 W, 2.5 W, 1.3 W, 0.7 W	10 W, 5 W, 2.5 W, 1.3 W	
MATCHING CSS BACKCAN	CSS-BB4	CSS-BB8 (0.15 cu ft)	CSS-BB8 (0.15 cu ft)	
CUTOUT DIAMETER: OPEN BACK	125 mm (5.0 in)	216 mm (8.5 in)	216 mm (8.5 in)	DIMENSIONS
CUTOUT DIAMETER: IN CSS-BB BACKCAN	170 mm (6.7 in)	295 mm (11.7 in)	295 mm (11.7 in)	229 x 159 x 143 mm
DEPTH (BEHIND GRILLE)	94 mm (3.7 in)	71 mm (2.8 in)	73 mm (2.9 in)	(9.0 x 6.3 x 5.6 in)
GRILLE DIAMETER	198 mm (7.8 in)	327 mm (12.9 in)	327 mm (12.9 in)	
NET WEIGHT (each)	0.90 kg (1.0 lb)	1.27 kg (2.8 lb)	1.58 kg (5 lb)	2.0 kg (4.5 lb)

¹ Continuous Pink Noise Rating (IEC-shaped pink noise with a 6 dB crest factor, for 100 hrs continuously).