Control® 328C/CT
8" Coaxial Ceiling Loudspeaker with HF Compression Driver

Professional Series

Key Features:

- Consistent 120° broadband pattern control covers an extremely large area.
- Shaped mounting baffle provides the pattern control of a 300 mm (12 in) horn from a 200 mm (8 in) driver.
- Components
  - 200 mm (8 in) woofer with Kevlar-reinforced cone and 50 mm (2 in) voice-coil.
  - 25 mm (1" exit) compression driver.
- Extraordinary clarity for speech and vocals with extended frequency response for music.
- 250 Watt power handling with very high sensitivity provides high SPL capability.
- Advanced high-slope crossover network for constant coverage and smooth, natural midrange.
- Clean, contemporary grille and optional backbox available.

Applications:

Control 328C and Control 328CT have been engineered from the ground up to deliver exceptional next-generation performance in a coaxial point source design ceiling loudspeaker. The combination of the low frequency cone and the shaped mounting baffle performs as a true 12 inch (300 mm) diameter waveguide for the high frequencies. A unique metal throat transitions seamlessly to the horn to eliminate high frequency beaming which is common among this category of speaker. The result is a coaxial speaker with wide, extremely consistent 120° coverage on a broadband basis.

The Control 328C and Control 328CT are easy to install. The removable multi-pin locking connector, with secure screw-down terminals, allows for pre-wiring the input wires for easy clip-on convenience during installation.

The clean, contemporary look of the optional MTC-RG6/8 round grille is designed to suit high-end venues, offering a simple, elegant appearance that fits into a wide variety of décors.

The optional MTC-300BB8 one cubic foot backcan is made of extra-thick 16 gauge steel and the top is lined with 1/2" medium density fiberboard.

The transformer version Control 328CT comes with a pre-attached top quality, low saturation 68 Watt multi-tap transformer for 70V/100V distributed speaker lines.

To ensure long life and reliability, Control 328C/CT passes JBL’s 100-hour torture test, the toughest standard in the industry.

Specifications:

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<th>System</th>
<th>Frequency Range (-10 dB)</th>
<th>Frequency Response (±3 dB)</th>
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<td>45 Hz – 18 kHz</td>
<td>60 Hz – 16 kHz</td>
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- Coverage Pattern: 120° conical, broadband
- Directivity Factor (Q): 7.0 (Avg 1k – 16kHz)
- Directivity Index (DI): 8.5dB (Avg 1k – 16kHz)
- Long-Term System Power Rating, IEC: 250 W (1000 W peak), 2 hrs
- 150 W (600 W peak), 10 hrs
- Sensitivity (2.83V@ 1m): 95 dB measured half-space
- 96 dB computed for competitive comparison
- Maximum SPL: 118 dB cont av (124 dB peak)
- Crossover Network: 1.9 kHz, 3rd order (18 dB/oct) high-pass plus conjugate to HF, 2nd order low-pass to LF
- Nominal Impedance (328C): 8 ohms
- Transformer Taps (328CT): 70V: 68W, 34W, 17W, 8.5W
- 100V: 68W, 34W, 17W
- Transducers:
  - Low Frequency Driver: Kevlar reinforced cone, 50 mm (2 in) voice coil.
  - High Frequency Driver: JBL 2412H-1 compression driver, 25 mm (1 in) voice coil.

- Physical:
  - Input Connector (328C): Removable locking connector with screw-down terminals. Max wire 12 AWG (2.5 mm2)
  - Tap Connection (328CT): A) Common
    - D) + in, 2) + loop out, 3) – loop out, 4) – in
  - Transformer UL registered per UL2043, NFPA90 & NFPA 70 when installed with UL listed backcan such as JBL MTC-300BB8. S7232/UL Listed, Signaling Speaker. Transformer UL registered per UL1876. In accordance with IEC60849-2:00849.

- Baffle: Metal, round, 305 mm (12.0 in) diameter, driver pre-mounded to baffle, ported.
- Baffle Attachment to MTC-300BB8 Backbox: Attach via 4 x #10 x .75 in (19 mm) sheet metal screws.
- Dimensions (H x W x D): 305 mm (12.0 in) diameter round baffle x depth from back of baffle of 160 mm (6.3in) on 328C, & 210 mm (8.6 in) on 328CT.
- Net Weight: 5.4 kg (12 lbs) 328C, 5.4 kg (12 lbs)
- Shipping Weight: 5.8 kg (12.7 lbs) 328C, 6.7 kg (14.7 lbs)
- Included Accessories: Ported baffle pre-attached, plus transformer on 328CT.

- Optional Accessories:
  - MTC-RG6/8 Grille, round contoured, white.
  - MTC-36G8/8 Grille, square, contoured, white.
  - MTC-300BB8 Backbox, 25 liters (1 cubic feet).

1 In half space (in ceiling)
2 Average 1 kHz to 10 kHz
3 IEC standard, full bandwidth pink noise with 6 dB crest factor.
4 Measured in full space with 6 dB added for half-space calculation. Method used by some European manufacturers, for comparison purposes.
5 Measured based on power rating and measured half-space sensitivity, exclusive of power compression.
Control® 328C/CT 8" Coaxial Ceiling Loudspeaker

Beamwidth:

Directivity Index:

Frequency Response:
Half-space (2π, mounted in ceiling) in 1 cu ft backbox

Conical Off-Axis Frequency Response:
All measurements obtained with no signal processing.
Graphics are from unaltered measurement data

Dimensions:
Transformer on CT Model Only

MTC-300RG8 Grill (optional):
Dimensions in inches (mm)