Professional Series

Key Features:

- Consistent 90° broadband pattern control.
- Components
 - Kevlar-reinforced 300 mm (12 in) woofer with 75 mm (3 inch) voice-coil
 - · Medium-format compression driver.
- Extraordinary clarity for speech and vocals with extended frequency response
- ▶ Power handling of 400 Watts with high sensitivity provides high SPL capability.
- Advanced high-slope crossover network for constant coverage and smooth, natural
- Clean, contemporary grille and optional backbox available.

Applications:

Control 322C and Control 322CT deliver exceptional next-generation performance in a coaxial point source design ceiling loudspeaker. The low frequency cone performs as a true 12 inch (300 mm) diameter waveguide for the high frequencies. A unique metal throat transitions seemlessly to the horn to eliminate high frequency beaming which is common among this category of speaker. The result is a coaxial speaker with extremely consistent 90° coverage on a broadband basis.

Component features include a Kevlarreinforced low frequency cone for reliability, well-damped surround for smooth frequency response, high temperature 75 mm (3 in) voicecoil and a reduced distortion design through saturated-gap magnet geometry. The high efficiency medium-format high compression driver features a radial slot phase plug for a smooth, extended high frequency response, along with a neodymium magnet for low installation weight.

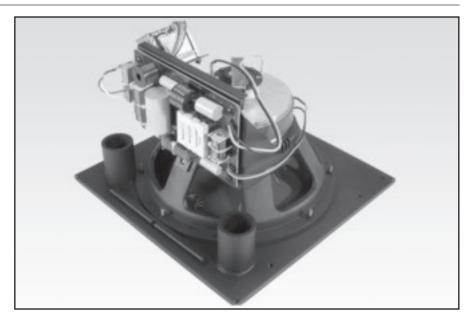
The Control 322C and Control 322CT are easy to install. The innovative EZRail™ feature built into the metal baffle temporarily holds one side of the speaker baffle in place until the installer can affix the baffle to the backcan with screws. The removable multi-pin locking connector, with secure screw-down terminals, allows for pre-wiring the input wires for easy clip-on convenience during installation.

The clean, contemporary look of the optional MTC-300SG12 square grille is designed to suit high-end venues, offering a simple, elegant appearance that fits into a wide variety of décors.

The optional, best-in-class, MTC-300BB12 three cubic foot backcan is made of extrathick 16 gauge steel and lined with 12 mm (1/2 in) medium density fiberboard to provide the performance of a top quality wood loudspeaker cabinet in a metal backbox form factor.

The transformer version Control 322CT comes with a pre-attached top quality, low saturation 100 Watt multi-tap transformer for use on 70V or 100V distributed speaker lines.

To ensure long life and reliability, Control 322C/CT passes JBL's 100-hour torture power test. Nobody in the industry has more deminading reliability standards.



Specifications:

System:	Frequency Range (-10 dB)1:	32 Hz – 20 kHz
	Frequency Response (±3 dB)1:	48 Hz – 19 kHz
	Coverage Pattern ² :	90° conical, broadband (Avg 1k - 16kHz)
	Directivity Factor (Q):	9 (1k - 16kHz)
Directivity Index (DI): Long-Term System Power Rating, IEC ³ :		9.5dB (1k - 16kHz)
		400 W (1600 W peak), 2 hrs
		250 W (1000 W peak), 100 hrs
	Sensitivity (2.83V@ 1m):	95 dB4 measured half-space
		100 dB5 computed for competitive comparison
	Maximum SPL ⁶ :	121 dB cont ave (124 dB peak)
	Crossover Network:	1.4 kHz, 3rd order (18 dB/oct) high-pass plus conjugate to HF, 2nd order low-pass to LF.
	Nominal Impedance (321C):	8 ohms
	Transformer Taps (321CT):	70V: 100W, 50W, 25W, & 12.5W 100V: 100W, 50W & 25W
	Transformer Insertion Loss (CT):	1.0 dB typ.
Transducers:	Low Frequency Driver:	Kevlar reinforced cone, 75 mm (3 in) voice coil.
	High Frequency Driver:	JBL 2407H neodymium-magnet medium-format compression driver with 37 mm (1.5 in) diaphragm.
Physical:	Input Connector (321C):	Removable locking connector with screw-down terminals. Max wire 12 AWG ($2.5~\text{mm}^2$) 322C: 1) + in, 2) + loop out, 3) – loop out, 4) – in
	Tap Connection (321CT):	322CT: A) Common B) 12.5W@70V, 25W@100V C) 25W@70V, 50W@100V D) 50W@70V, 100W@100V E) 100W@70V, n/c@100V
	Safety Agency Rating:	In accordance with IEC60849 / EN60849. Transformer in CT model UL Listed per UL1876.
	Baffle:	Metal, 366 x 366 mm (14.4 x 14.4 in), driver pre-mounted to baffle, ported, EZRail™ for easier installation to backbox.
	Baffle Attachment to MTC-300BB12 Backbox:	Attach via either 4 corner holes M4 x 14 mm machine screws, or 6 side/end holes #10 x 0.5 in (12 mm) sheet metal screws.
	Grille Attachment to Baffle:	4 pcs 4 mm machine screws in corners.
Dimensions (H x W x D):		366×366 mm (14.4 x 14.4 in) square baffle x depth from back of baffle of 223 mm (8.8 in) on 322C & 240 mm (9.5 in) on 322CT.
	Net Weight:	322C: 20.0 lbs (9.1 kg) 322CT: 22.0 lbs (10.0 kg)
	Shipping Weight:	322C: 23.4 lbs (10.6 kg) 322CT: 25.8 lbs (11.7 kg)
	Included Accessories:	Ported baffle pre-attached, transformer on 322CT.
	Optional Accessories:	MTC-300SG12 Grille, square contoured, white. MTC-300BB12 Backbox, 80 liters (3 cubic feet)

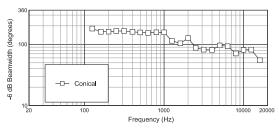
In half space (in ceiling)

² Average 1 kHz to 10 kHz
³ IEC standard, full bandwidth pink noise with 6 dB crest factor.
⁴ Measured in half space (in ceiling), ave 100 Hz – 10 kHz.
⁵ Measured in full space with 6 dB added for half-space calculation. Method used by some European manufacturers, for

⁶ Calculated based on power rating and measured half-space sensitivity, exclusive of power compression. JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.

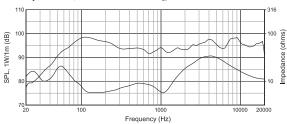
Control® 322C/CT High-output 12" Coaxial Ceiling Loudspeaker

Beamwidth:

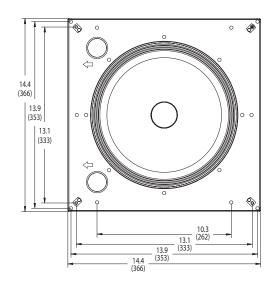


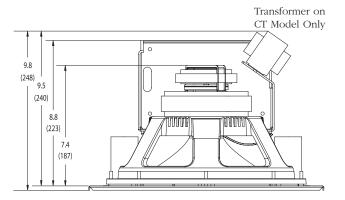
Frequency Response:

Half-space $(2\pi, mounted in ceiling)$ in 3 cu ft backbox

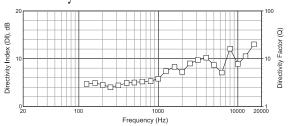


Dimensions:

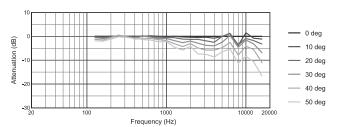




Directivity Index:

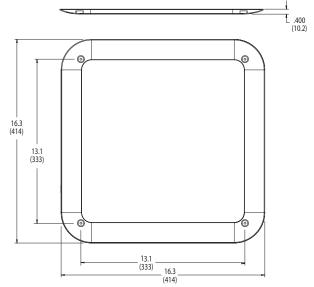


Conical Off-Axis Frequency Response:



All measurements obtained with no signal processing. Graphics are from unaltered measurement data

MTC-300SG12 Grill (optional):



Dimensions in inches (mm)



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