Control 14C/T
Two-Way 4" Coaxial Ceiling Loudspeaker

Professional Series

Key Features:

- Components:
  - 100 mm (4.0 in) high output driver with polypolypropylene cone and butyl rubber surround
  - 19 mm (0.75 in) soft-dome liquid-cooled tweeter
- Blind-mount backcan for quick and easy install
- Dual conduit/cable clamps
- Combined 70V/100V and low impedance direct operation
- 30 Watts at 8Ω nominal setting
- 25W multi-tap at 70V/100V
- 74 Hz – 20 kHz bandwidth with wide 120° coverage
- White or black (-BK)

Applications:

Control 14C/T is a full-range ceiling speaker consisting of a 100 mm (4 inch) high tech cone driver and a 19 mm soft-dome liquid cooled tweeter mounted in a vented, paintable baffle made of UV resistant UL94-V0 and UL94-5HB material, with a pre-attached blind-mount backcan for quick and easy installation. The speaker is designed to provide excellent sound quality for a wide variety of medium volume applications such as music cafes, business music systems, retail stores, music/paging systems, airports, reception/waiting rooms, lounges, courtrooms, convention centers, hotels, educational facilities, and more.

The 120° coverage delivers consistent sound quality for listeners located both off and on axis. The high technology 100 mm (4.0 in) low-frequency driver is designed with a lightweight, high temperature anodized aluminum voice coil former and high temperature grade voice coil for stable performance and reliability under long-term high power working conditions. The butyl rubber surround provides long-term durability and excellent sonic damping while the polypolypropylene cone is water and humidity resistant. The FEA-optimized motor construction and cone geometry, along with linear suspension spider design, allows for a smooth frequency response and more consistent off-axis performance. The 19 mm (3/4 in) high frequency driver features a highly damped treated silk dome for clear and warm sound, a lightweight Kapton™ voice coil for better high frequency response and excellent reliability, low viscosity liquid cooling for power handling and reliability, and a wide dispersion waveguide design to produce wide coverage and smooth frequency response.

The removable locking connector has screw terminals for secure wire termination and “loop through” terminals. A dual strain relief assembly provides clamping for use with cable or flex conduit.

For a wide variety of projects, the Control 14C/T is switchable for use as either an 8 ohm low-impedance speaker or as part of a 70V or 100V distributed loudspeaker system with a 25 Watt multi-tap transformer. The speaker comes complete with two tile rail supports, one C-ring support backing plate, cutout template, paint shield and grille. A safety seismic attachment ring is provided on the top surface. Available in white or black (-BK).

Preliminary Specifications:

System:
- Frequency Range (-10 dB) 74 Hz – 20 kHz
- Frequency Response (+3 dB) 100 Hz – 20 kHz
- Power Capacity (at low-Z) 60 WattsContinuous Program Power
- Nominal Coverage Angle 120° conical coverage
- Directivity Factor (Q) 7.6
- Directivity Index (DI) 8.1 dB
- Nominal Impedance 8 ohms (in direct/bypass #2 setting)
- Transformer Taps 25 W, 12.5 W, 6.3 W @ 70V or 100V
- Nominal SPL 100 dB @ 1 m (3.3 ft) average, 108 dB peak
- Crossover Network 12 dB/oct (2nd order) low-pass to LF driver, 12 dB/oct (2nd order) high-pass to HF driver

Transducers:
- LF Driver 100 mm (4 inch) with polypolypropylene cone, butyl rubber surround, anodized aluminum voice coil former, high temperature voice coil
- HF Driver 19 mm (3/4 in) highly-damped treated-silk dome, Kapton™ voice coil, liquid cooling, wide dispersion waveguide

Enclosure:
- Input Connector: Removable locking 4-pin connector with screw-down terminals. Max wire size 12 AWG (2.5 mm²)
- Connector Wiring: Pin 1 = + In; Pin 2 = - In; Pin 3 = + Loop Thru; Pin 4 = - Loop Thru
- Strain Reliefs: Strain relief for two cables or two flex conduits via coupled clamping mechanism

Materials: ABS baffle with Ul94-V0 and Ul94-5VB flame class fire rating. Zinc-plated steel backcan

Safety Agency: TUV/UL, cULus, UPC, UL1480, NFPA90 & NFPA70, S7232/UL Listed, Suitable for use in air handling spaces, Signaling Speaker; Transformer UL registered per UL1487, ROHS, C-tick N108, CE compliant; Baffle meets UL1360 and UL94-SIB flame retardancy rating. In accordance with IEC60849/EN60849 systems

Dimensions: 190 mm diameter x 181 mm depth from back of baffle (7.5 in diameter x 7.1 in depth)

Ceiling Cutout Size: Circular cutout with 170 mm (6.7 in) diameter (cardboard cutout template included)

Ceiling Thickness Range: Up to 55 mm (2.2 in) ceiling thicknesses

Safety Seam Attachment: One point, top surface

Net Weight: 2.2 kg (4.8 lbs, one speaker)

Shipping Weight: 8.2 kg (17.9 lbs, pair in master carton)

Included Accessories: C-ring support backing plate; 2 tile support rails (for 2 ft or 600 mm tile spans; optional MTC-48TR extension available for larger 4 ft or 1200 mm tile spans); cutout template, paint shield, removable locking multi-pin connector, grille

Optional Accessories: MTC-24NC new construction bracket; MTC-24MR mud-ring construction bracket

Applications:
- Central 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.
- Half-space (flush mounted in ceiling) and Half-space (in ceiling) average 1 kHz to 16 kHz.

JBL continually engages in research related to product improvement. Changes introduced into existing products without notice are an expression of that philosophy.
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Frequency Response, Impedance:
Frequency Response in Half-Space (2π, mounted in ceiling)
Impedance at 8Ω (low-impedance) setting

Dimensions in mm (inches)

Dimensions in mm (inches)