

Model No.

BC-810-72

Beam-mount Loudspeaker

INCLUDES:

- 8-inch 15W dual cone driver
- 25V/70V dual voltage transformer
- 0.147 cu.ft. volume enclosure with clamps
- White grille



Clamps mount the speaker to a beam or girder

SPEAKER MODEL BC-810-72 offers unique installation in open ceiling environments. It features an 8-inch 15W dual cone driver, 25V/70V dual voltage transformer, round steel grille and enclosure with dual clamps to mount to a beam or girder.

FEATURES

PERFORMANCE: This model offers clear, reliable performance for paging and background music.

DRIVER (810): The 8-inch 15W dual cone driver with 10 oz. magnet provides a step up in full range performance from the commercial industry standard, delivering solid performance and value for paging and/or background music applications that require clear communications. The speaker delivers smooth extended frequency response and a clean, natural sound.

- **Driver magnet:** 10 oz. ceramic, 3/4-inch hard fiber whizzer cone, 1-inch voice coil, 20-gauge steel frame with zinc-plated finish.
- **Driver weight:** 2.0 lbs.
- **Driver depth:** 2.84 in.

TRANSFORMER: Factory-wired dual voltage 25V/70V transformer with primary taps at 0.25, 0.5, 1, 2 and 5W.

ENCLOSURE (8XD4): Certified US steel with white powder coat finish.

- **Volume:** 0.147 cu.ft.
- **Overall Dimensions:** 11.875 dia. x 5.58-in. (w/clamps)
- **Can Dimensions:** Tapered 10 to 8.375-in. dia. x 4-in. deep
- **Knockouts:** Top and side
- Polyurethane foam disc

GRILLE (WB-8): Certified US steel with white powder coat finish.

- **Dimensions:** 12.875-inch diameter
- Screw-mount
- White screws

INSTALLATION:

- **Connections:** Externally accessible speaker leads exit the enclosure through a metal strain-relief clamp for fast installation. Simply splice the connecting wires, push them completely inside the enclosure, and tighten the clamp.
- Dual clamps on the back of the enclosure mount to a beam or girder in open ceiling environments.



A&E SPECIFICATIONS

The loudspeaker shall be Lowell model BC-810-72, which shall include an 8-inch 15W dual cone driver, 25V/70V dual voltage transformer, steel screw-mount grille and tapered steel enclosure with externally accessible leads that exit through a metal strain-relief clamp. The driver shall have a frequency response of 54Hz-11.6kHz (± 6 dB), 50Hz-20kHz (± 6.6 dB) and average sensitivity of 97.9dB. The factory wired transformer shall be dual voltage with primary taps at 0.25, 0.5, 1, 2, and 5W. The grille and enclosure shall be certified US steel with white powder coat finish. The grille shall have a 12.875-inch diameter. The enclosure shall be tapered 10-inch diameter with 4-inch depth and 0.147 cu.ft. volume. It shall feature two metal clamps to mount to an open beam or girder. The assembly shall be made in the USA with global components.

DRIVER SPECIFICATIONS

Driver No.	Size	Power Rating	Type	Ceramic Magnet	Frequency Response	Dispersion @ 2000Hz(-6dB)	Voice Coil Impedance	Voice Coil Diameter	Sensitivity 1W/1M	Max SPL*	Driver Depth	Driver Weight
810	8 in.	15W	dual cone	10 oz.	54Hz-11.6kHz (± 6 dB) 50Hz-20kHz (± 6.6 dB)	95 degrees conical	8 ohms	1 in.	97.9dB avg.	109.7dB	2.84 in.	2.0 lbs.

*Calculated value 1M @ driver power rating. See spec sheet for driver model 810 for additional information.

TEST METHODOLOGIES: Lowell speaker systems are thoroughly tested to provide specifiers and contractors with accurate data. Test equipment includes the Gold-Line TEF-20 analyzer.

- **POWER HANDLING:** specification is based on E.I.A. Standard RS-426B.
- **FREQUENCY RESPONSE:** describes the usable response range defined by a ± 6 dB window, which is useful in predictive engineering calculations.
- **SENSITIVITY:** is a computer calculation of the log average sound pressure level (SPL) over the entire engineering bandwidth as given in the Frequency Response (± 6 dB).
- **MAXIMUM SPL:** is calculated based on the Power Handling and the measured log average Sensitivity where Maximum SPL = (Sensitivity @ 1W1M) + 10 log (Power Handling).
- **DISPERSION ANGLE:** is defined as the angle of coverage that is no more than 6dB down from the on-axis value averaged over the 2kHz octave band. Since speech intelligibility is dependent upon the 2kHz octave, this specification is useful in designing voice reinforcement and music systems that provide even coverage and intelligibility. The polar plots illustrate how the system performs when hung in free space (360°) or half-space (180°) in the case of a recessed speaker.

TECHNICAL DRAWINGS

Dimensions are inches and [mm] unless stated otherwise.

