

Model No.

RPAK-810-72

Recessed In-Ceiling Loudspeaker Kit
(Set of 2)

INCLUDES 2 EACH:

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



SPEAKER KIT MODEL RPAK-810-72 is a great choice for general purpose paging and distributed music applications where economy and installation cost are prime considerations. Each kit includes a set of two speakers that feature 8-inch dual cone drivers, dual voltage transformers, steel enclosures, steel grilles, and galvanized steel tile-bridges.

FEATURES

PERFORMANCE: This model is made for general purpose 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 U.S. steel with white powder epoxy finish.

- Volume: 0.147 cu.ft.
- Dimensions: 10-in. diameter x 4-in. deep (tapered)
- Knockouts: Top and side
- Polyurethane foam disc
- Punched lip to install to tile bridge

GRILLE (WB-8): Certified U.S. steel with white powder epoxy finish grille is factory-mounted to the driver with welded studs. It installs to the enclosure and tile bridge with four white screws (provided).

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

TILE BRIDGE (LBS8-R1): The T-bridge transfers the speaker assembly weight to the ceiling support structure in suspended tile ceilings.

- Galvanized steel with four wire-tie holes for seismic anchoring
- Dimensions: 23.75-in. x 15.5-in. (10.75-in. diameter opening)

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.

A&E SPECIFICATIONS

The recessed loudspeakers shall be Lowell Model RPAK-810-72 which shall include a set of two speakers that feature 8-inch dual cone drivers, dual voltage transformers, steel grilles, steel enclosures, and galvanized steel tile-bridges to transfer speaker assembly weight to the ceiling support structure in suspended tile ceilings. The drivers shall have 15W power rating and employ a 10 oz. ceramic magnet and molded high fiber cone. Driver frequency response shall be 54Hz-11.6kHz (± 6 dB) and 50Hz-20kHz (± 6 dB) with average sensitivity of 97.9dB measured 1W/1M. Dual voltage transformers shall be 25V/70V with primary taps at 0.25, 0.5, 1, 2, and 5W. Grilles with 12.875-inch diameter shall be steel with white powder epoxy finish. Enclosures with 10-inch diameter x 4-inch depth and 1/2-3/4 inch knockouts shall be steel with white powder epoxy finish. Tile-bridges shall be 23.75-inch long galvanized steel with holes for seismic anchoring. The speaker assemblies shall be made in the U.S.A. with global components.

DRIVER SPECIFICATIONS

Driver No.	Size	Power Rating	Type	Ceramic Magnet	Frequency Response	Dispersion @ 2000Hz (± 6 dB)	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 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.