

Model No.

# R1810-72

## Speaker Assembly

INCLUDES:

- 8-inch 15W dual cone driver
- 25V/70V dual voltage transformer
- White grille



Rear view



THE R1810-72 SPEAKER ASSEMBLY is an excellent choice for general paging and distributed music where the installed cost of the loudspeaker is of prime consideration, and is designed to provide consistent performance with clear intelligibility and wide dispersion. Ships ready for installation.

## FEATURES

**PERFORMANCE:** This model is made for general paging and distributed 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.

**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

## A&E SPECIFICATIONS

The speaker assembly shall be Lowell model R1810-72, which shall include an 8" dual cone driver, wired dual voltage transformer and steel screw-mount grille. The driver shall have a 15 watt RMS power rating and employ a 10 oz. ceramic magnet and molded high fiber cone. Frequency response shall be 54Hz-11.6kHz ( $\pm 6$ dB); 50Hz-20kHz ( $\pm 6.6$ dB) with sensitivity of 97.9 dB avg. measured 1W/1M. The wired transformer shall be dual voltage (25V/70V) and have primary taps at 0.25, 0.5, 1, 2, and 5W. The steel grille with white powder epoxy finish shall be mounted to the driver.

## R1810 SERIES SUMMARY

| Assembly Model No. | Driver           | Transformer | Transformer Taps    | Steel Grille with White Finish | Volume Control   |
|--------------------|------------------|-------------|---------------------|--------------------------------|------------------|
| R1810-425          | 8" 15W Dual Cone | 25V         | 0.5, 1, 2, 4W       | Round, screw-mount             | ----             |
| R1810-72           | 8" 15W Dual Cone | 25V/70V     | 0.25, 0.5, 1, 2, 5W | Round, screw-mount             | ----             |
| R1810-72K          | 8" 15W Dual Cone | 25V/70V     | 0.25, 0.5, 1, 2, 5W | Round, screw-mount             | Knob             |
| R1810-72S          | 8" 15W Dual Cone | 25V/70V     | 0.25, 0.5, 1, 2, 5W | Round, screw-mount             | Screwdriver-adj. |

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## DRIVER SPECIFICATIONS (MEASURED HALF SPACE)

| Driver | Size | Power Rating | Type      | Ceramic Magnet | Frequency Response                         | Dispersion 2000Hz         | Voice Coil Impedance | Voice Coil Diameter | Sensitivity 1W / 1M | Depth (wo xfrm) | Max SPL  |
|--------|------|--------------|-----------|----------------|--|---------------------------|----------------------|---------------------|---------------------|-----------------|----------|
| 810    | 8"   | 15W RMS      | Dual Cone | 10 oz.         | 54Hz-11.6kHz (±6dB)<br>50Hz-20kHz (±6.6dB) | 95 degrees conical (-6dB) | 8 Ohms               | 1"                  | 97.9dB Avg.         | 2.84"           | 109.7dB* |

\*Calculated Value 1M@ Driver Power Rating. Additional technical information is available on the spec sheet for driver #810.

Note on Spacing: To determine speaker spacing, see the technical paper "Distributed System Speaker Spacing for the Integrator." A free download is available at [Lowellmfg.com](http://Lowellmfg.com), where an online spacing calculator is also available.

## COMPATIBLE COMPONENTS (ORDER SEPARATELY)

| Backbox Model No.      | Diameter | Depth  | Material | Features                      | T-bridge Model No. | Mounting Ring Model No. | Support Rails Model No. |
|------------------------|----------|--------|----------|-------------------------------|--------------------|-------------------------|-------------------------|
| 8XD4                   | 10"      | 4"     | steel    | flat flange for tile          | LBS8 or LBS8-RI    | ---                     | SS24, SS30 or SS48      |
| 8PSBX*                 | 10"      | 4"     | plastic  | flat flange for tile          | LBS8 or LBS8-RI    | ---                     | SS24, SS30 or SS48      |
| BME84                  | 10.06"   | 4.06"  | steel    | retrofit tension bracket      | ---                | (included)              | ---                     |
| CP84                   | 12"      | 4.06"  | steel    | extended lip for sheetrock    | LBS8-CP            | ---                     | SS24, SS30 or SS48      |
| CP87                   | 12"      | 6.69"  | steel    | extended lip for sheetrock    | LBS8-CP            | ---                     | SS24, SS30 or SS48      |
| CP810                  | 12"      | 10.06" | steel    | extended lip for sheetrock    | LBS8-CP            | ---                     | SS24, SS30 or SS48      |
| DX108                  | 15"      | 10.50" | steel    | extended lip for sheetrock    | LBS8-CP            | ---                     | SS24, SS30 or SS48      |
| XCP84                  | 10.06"   | 4.06"  | steel    | flat flange for tile          | LBS8 or LBS8-R1    | ---                     | SS24, SS30 or SS48      |
| XCP87                  | 10.06"   | 4.06"  | steel    | flat flange for tile & straps | LBS8 or LBS8-R1    | ---                     | SS24, SS30 or SS48      |
| XCP810                 | 10.06"   | 10.06" | steel    | flat flange for tile          | LBS8 or LBS8-R1    | ---                     | SS24, SS30 or SS48      |
| None (infinite baffle) |          |        |          |                               | LBS8 or LBS8-R1    | RMP8 or PR8-1624        | ---                     |

\* Imported

- Notes:
- If a backbox is not used (i.e. infinite baffle applications) a mounting ring may be needed. Speaker assemblies using grille WB-8 will accept mounting ring PR8-1624 (which has ears) or RMP8.
  - Mounting bolts are included with grilles and speaker assemblies (not T-bridges). The installer will need to supply four (4) 8-32 bolts to mount an enclosure to a T-bridge.