

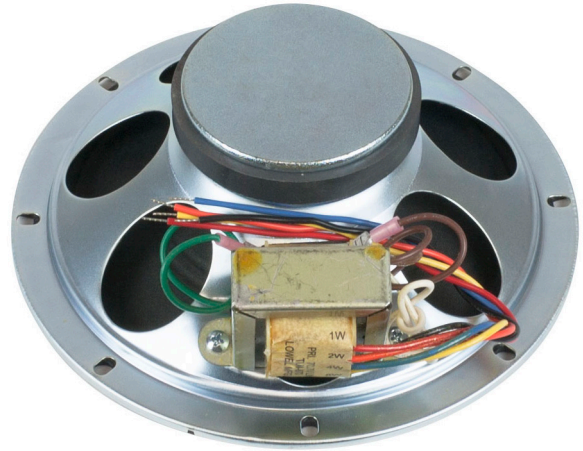
Model No.

810-T870

Dual Cone Driver with Transformer

INCLUDES:

- 8-inch 15W dual cone driver
- 70V 8W transformer



THE 810 DRIVER with mounted 70V transformer provides solid performance for basic paging and background music.

FEATURES:

DESCRIPTION: The driver features a highly efficient magnetic structure energized by 10 oz. ceramic magnet features a 3/4-inch hard fiber whizzer cone mechanically coupled to 1-inch voice coil for extended high frequency response with fine clarity. The molded fibre cone enhances mid- and low-range frequency performance. Stamped 20-gauge steel with zinc-plated finish to prevent corrosion.

POWER RATING: 15W RMS

TRANSFORMER: 70V transformer has primary taps at 1, 2, 4, and 8W

FREQUENCY RESPONSE: 50Hz–11.6kHz (± 6 dB), 50Hz–20kHz (± 6.4 dB).

DISPERSION ANGLE: 95 degrees conical @2kHz octave (-6dB).

SENSITIVITY: Average SPL = 97.9dB (@1W/1M).
Maximum SPL = 106.9 (calculated based on 8W maximum transformer power tap and measured sensitivity).

MOUNTING DEPTH: 3.0 inches

NET WEIGHT: 2.9 lbs.

COUNTRY OF ORIGIN: Assembled in the U.S.A. with global components

A&E SPECIFICATIONS:

The 8-inch dual cone driver with mounted transformer shall be Lowell Model 810-T870. The driver shall be of the permanent magnet type having a seamless molded fiber cone with a hard fiber whizzer cone mechanically coupled to a voice coil for extended high frequency response. Power rating shall be 15 watts RMS. The voice coil shall have a 1-inch diameter and shall operate in a magnetic field derived from a strontium ferrite (ceramic) magnet having a nominal weight of 10 oz. Voice coil impedance shall be 8ohms. The driver shall have a round, structurally reinforced stamped 20-gauge steel frame with 8.062-inch overall diameter and eight obround holes equally spaced at 45 degrees on a 7.625-inch diameter mounting bolt circle. Overall depth shall not exceed 3.0-inches for the assembly. External metal parts shall be zinc-plated to resist rust and corrosion. The mounted transformer shall be 70V with selectable taps at 1, 2, 4, and 8W. The assembly shall be capable of producing a uniform audible frequency response over the range of 50Hz-11.6kHz (± 6 dB), 50Hz-20kHz (± 6.4 dB) with dispersion angle of 95 degrees conical @2000Hz (-6dB). Average sensitivity shall measure 97.9dB SPL (at 1W/1M).

810 SERIES OVERVIEW

Model No.	Driver	Transformer	Transformer Primary Taps	Mounting Depth**	Outside Diameter	Net Weight	Sensitivity***	System Specs Frequency Response	Dispersion Angle****
810	8" 15W dual cone*	---	---	2.84"	8.06"	2.0 lbs.	97.9 dB	54Hz–11.6kHz (±6dB) 50Hz–20kHz (±6.6dB)	95°
810-T72	8" 15W dual cone	25V/70V	.25, .5, 1, 2, 5W	2.84"	8.06"	2.4 lbs.	97.9 dB	51Hz–11.6kHz (±6dB) 50Hz–20kHz (±6.4dB)	95°
810-T470	8" 15W dual cone	70V	.5, 1, 2, 4W	2.84"	8.06"	2.6 lbs.	97.3 dB	51Hz–11.4kHz (±6dB) 50Hz–20kHz (±6.7dB)	95°
810-T870	8" 15W dual cone	70V	1, 2, 4, 8W	3.0"	8.06"	2.9 lbs.	97.9 dB	50Hz–11.6kHz (±6dB) 50Hz–20kHz (±6.4dB)	95°

THIS SPEC

* 8ohm

** Mounting Depth: Minimum depth required for assembly to be rear-mounted to grille in an enclosure.

*** Sensitivity: Average SPL (measured 2.83V @ 1M)

**** Dispersion Angle: Conical @ 2kHz octave (–6dB)

Note on Speaker Spacing: Conical dispersion measurements are provided for comparison with other speakers. To determine correct speaker spacing, see the technical paper "Distributed System Speaker Spacing for the Integrator" (www.Lowellmfg.com) which explains the difference between conical and linear dispersion and the measurements to use for best results. For quick calculations, a calculator for speaker spacing is also available online under Resources – Interactive Tools.