



UL Listed only when used with Lowell Backbox (Enclosure) No. DX104 (order separately)

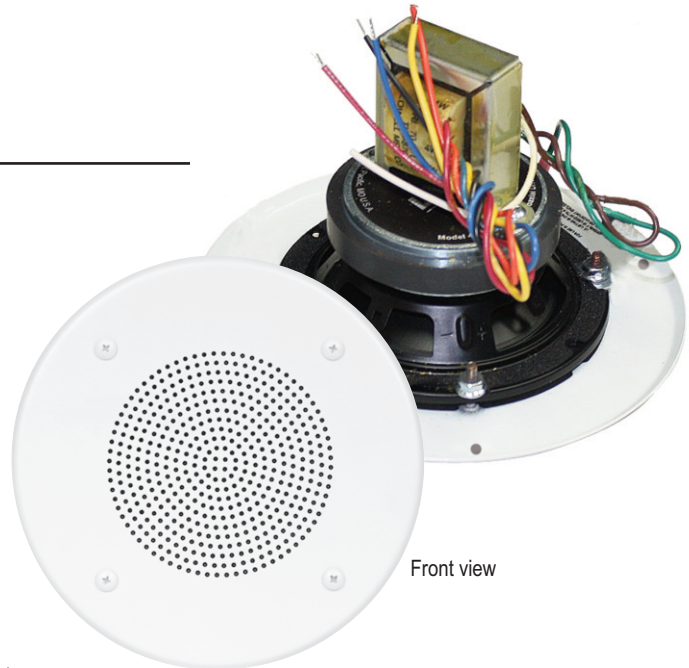
Model No.

WB4-4A30-T870

Speaker Assembly

- Includes 4" driver, transformer, grille
- UL Listed for General Signaling when used with approved backbox (Lowell No. DX104, order separately)

Premium 4" 30W coaxial driver engineered as a step up in sound quality and performance over standard commercial coaxial drivers, provides very high quality paging and background music reproduction for hotel lobbies, retail stores, transportation terminals, and similar venues.



Front view

Construction & Features

- 4" 30W coaxial driver (No. 4A30) 135 degree dispersion for large coverage areas. Driver's capacity to deliver a wide angle of sound distribution at 2kHz with uniform response and clear audibility ensures complete coverage with minimum units. Ten oz. magnet coupled with 1" copper voice coil driving a polypropylene cone with half-roll rubber surround for long cone travel and good edge damping. Post-mounted, liquid-cooled tweeter is a 1" dia. balanced drive dome with first order high-pass filter. Frequency response is 70Hz-20kHz (± 6 dB) and 50Hz-20kHz (± 8.8 dB) with a crossover at 5kHz.
- Frame is stamped 20-ga. steel with black enamel paint finish and zinc plated backplate.
- Transformer (No. TLM-870) has primary taps at 8, 4, 2, 1 watt and frequency response of 50Hz-15kHz (± 1 dB).
- One-piece punched steel grille (WB-4) with white powder epoxy finish has 7.25" dia. and is made to mount to a backbox with four white Phillips-head screws (included).
- Speaker assembly is UL1480 listed for general signaling and UL2043 rated for use in plenum space when used in conjunction with the approved backbox (Lowell Model No. DX104, order separately).

Approved Backbox (required for UL Listing, order separately)

Lowell No. DX104: Enclosure is required to maintain UL Listing on the above referenced assembly. It measures 10" dia. x 6.75"D and has an additional 3/8"D formed flange to attach to the assembly's screw-mount grille. The backbox is welded 22-ga. steel, acoustically coated to eliminate metallic resonance, and lined with 1.5" thick batting (1.5 lbs. density rating) to neutralize undesirable resonance in high frequency range. It also features four combination 1/2-3/4" knockouts and two flexible mounting straps (at 180° interval).



Compatible Components (order separately)

SS Series channel rails can be used to rough-in the approved enclosure (backbox) before a drywall ceiling is installed. Tile-bridge Model No. LBS4-DX can be used with the enclosure to distribute speaker weight in suspended ceiling installations.

- Channel Rails.....SS24, SS30, SS48
- Tile-Bridge.....LBS4-DX

Model No. Summary

Model No.	Description	Driver	Transformer Taps	Grille
WB4-4A30-T870	Speaker assembly	4" 30W coaxial	8, 4, 2, 1W	round, screw-mount

NOTE: To maintain UL Listing, assembly must be used with Lowell backbox Model No. DX104 (order separately)

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Driver + Transformer Specifications

Driver + Xfmr. No's.	Frequency Response	Dispersion 2000Hz octave (-6dB)	Sensitivity	Assembly Depth*	Assembly Weight	Max SPL
4A30 + TLM-870	70Hz-20kHz (+6dB) 50Hz-20kHz (+8.8dB)	135 degrees conical	88.0dB Avg. SPL	4.5"	2.9 lbs.	97.0dB **

* Minimum depth required for assembly to be rear-mounted to enclosure. Additional technical information available on specification sheet for Driver No. 4A30.

** Calculated value 1M @ maximum transformer tap (8W)

A&E Specifications

The speaker assembly shall be Lowell Model No. WB4-4A30-T870, which shall include a 4" driver, 70V transformer and grille. The driver shall be of the coaxial type with high and low frequency transducers. Low frequency section shall have a 4" dia. polypropylene cone; high frequency section shall have a tweeter with a 1" dia. balanced-drive dome. Built-in electrical crossover network shall be employed to accomplish proper frequency division between the two drivers. Crossover frequency shall be at 5kHz with first order high-pass filter. It shall be capable of producing a uniform audible frequency response over the range of 70Hz-20kHz (+6dB) and 50Hz-20kHz (+8.8dB) with dispersion angle of 150 degrees @2000Hz (-6dB). Average sensitivity shall measure 88.0dB (SPL at 1W/1M). Rated power handling shall be 30W (EIA 426B). The 1" dia. low frequency voice coil shall operate in a magnetic field derived from a ferrite (ceramic) magnet with nominal weight of 10oz.; the 0.53" dia. high frequency voice coil shall operate in a magnetic field derived from a Neodymium magnet with 0.06oz. nominal weight. Voice coil impedance shall be 8 ohms. Frame shall be structurally reinforced stamped 20-ga. steel with 5" overall dia., 4 round and 4 obround holes equally spaced on 4.67" dia. mounting bolt circle. External metal parts shall be finished in black enamel paint or zinc plating to resist rust/corrosion. Transformer shall have primary taps at 8, 4, 2, 1W and frequency response of 50Hz-15kHz (+1dB). It shall be factory-mounted to top of driver, which shall be mounted to a punched steel screw-mount grille with 7.25" dia. and white powder epoxy finish. The assembly shall be used with Lowell backbox No. DX104 (ordered separately) to maintain UL Listing (UL1480 general signaling, UL2043 plenum space).

Technical Drawings

