

Model No.

C1830-870

Speaker Assembly

- Includes 8" driver, transformer, grille
- For quality paging & background music

Eight inch speaker assembly is an outstanding choice for quality paging, public address and background music applications that demand clear intelligibility with accurate music reproduction. Its capacity to deliver a wide angle of sound distribution over a large area with uniform response and voice clarity ensures complete coverage with fewer units.

Construction & Features

- 20W coaxial driver (No. CT830A) includes separate high and low frequency transducers with electrical crossover network to accomplish proper frequency selection between the two transducers.
- Factory-wired 70V transformer (No. TLM-870) with taps at 1, 2, 4, 8W
- Precision formed steel, screw-mount grille has an 12.875" diameter. White powder epoxy finish.
- Includes white screws to attach to an enclosure or tile-bridge (ordered separately).

A&E Specifications

The speaker assembly shall be Lowell Model C1830-870, which shall include an 8" 20W coaxial driver with wired transformer and mounted grille. The driver shall have a 20W RMS power rating and employ a 12 oz. ceramic magnet. Frequency response shall be 57Hz-14kHz (± 6 dB) and 44Hz-20kHz (± 7.6 dB). Sensitivity shall be 97.0dB Avg. measured 1W/1M. The 70V transformer shall be factory-wired with primary taps at 1, 2, 4, 8W. The grille shall be factory-mounted to the driver and made of steel with a white powder epoxy finish.



Driver + Transformer Specifications

Driver + Xfmr. No's	Driver Size	Driver Power Rating	Driver Type	Ceramic Magnet	Frequency Response	Dispersion	Voice Coil Impedance	Sensitivity 1W / 1M	Depth (w/o xfmr)	Weight (w/o xfmr)	Max SPL
CT830A + TLM-870	8"	20W	Coaxial	12 oz. LF 2.1 oz. HF	53Hz-14.3kHz (±6dB) 44Hz-20kHz (±7.1dB)	80 degrees conical @2000Hz -6dB	8 Ohms	97.1dB Avg.	3.3"	3.6 lbs.	106.1dB *

* Calculated value 1M @ maximum transformer tap (8W)
Additional technical information is available on the specification sheet for Driver No. CT830A.

Optional Compatible Components (order separately)

Model No.	Description	Size	Features
CP84	Enclosure	11.938"dia. x 4.063"D	Extended lip for sheetrock
CP87	Enclosure	11.938"dia. x 6.687"D	Extended lip for sheetrock, batting
CP810	Enclosure	11.938"dia. x 10.063"D	Extended lip for sheetrock, batting
DX108	Enclosure	15"dia x 10.125"D	1 cu.ft., extended lip, batting
RF841	Enclosure	10.063"dia. x 4.063"D	Retrofit w/bracket, torsion
RF871	Enclosure	10.063"dia. x 6.688"D	Retrofit w/bracket, torsion
XCP84	Enclosure	10.063"dia. x 4.063"D	Flat flange for tile ceiling
XCP87	Enclosure	10.063"dia. x 6.687"D	Flat flange for tile ceiling, batting
XCP810	Enclosure	10.063"dia. x 10.063"D	Flat flange for tile ceiling, batting
8PSBX	Enclosure	10"dia. x 4"D	Plastic
8XD4	Enclosure	10"dia. x 4"D	Steel, tapered
LBS8-CP	Tile-bridge	23.75"L	Round opening (enclosure required)
LBS8	Tile-bridge	23.75"L	Square opening with screw-mount
LBS8-R1	Tile-bridge	23.75"L	Round opening with screw-mount
SS24	Channel rails (pr)	23.75"L	Galvanized steel
SS30	Channel rails (pr)	30"L	Galvanized steel
SS48	Channel rails (pr)	47.75"L	Galvanized steel
PR8-1624	Mounting ring w/ears	23.88"L, 13.25" dia. hole	Steel
RMP8	Mounting ring	13.81" dia.	Plastic

System Configurations

Speaker Assembly No.	Enclosure	Mounting Aids (if needed for suspended ceilings)
C1830-870	CP84, CP87, CP810, DX108	LBS8-CP (T-bridge) SS24, SS30, SS48 (rails)
	XCP84, XCP87, XCP810, 8XD4, 8PSBX	LBS8, LBS8-R1 (T-bridge)
	RF841, RF871 (blind mount)	n/a
	None (infinite baffle)	LBS8, LBS8-R1 (T-bridge) PR8-1624, RMP8 (mounting rings)