

Quality Features

- Factory assemblies are easy to order & easy to install.
- Assemblies include a coaxial 8" speaker with a wired 70V (8W) transformer and choice of three grilles.
- Attractive grilles are offered in steel or aluminum.
- Ships wired and ready for efficient installation.
- Companion backboxes and mounting accessories are itemized below with details on page 2 for easy selection.

Description

Lowell's C Series 20W speaker assemblies are preferred by acoustical consultants and systems contractors for reliable performance with pre-packaged ordering and installation convenience. The C Series 20W assemblies are comprised of a factory assembled 8" coaxial driver (Model CT830) with a wired 70V transformer with 8W taps and three choices of mounted grille.

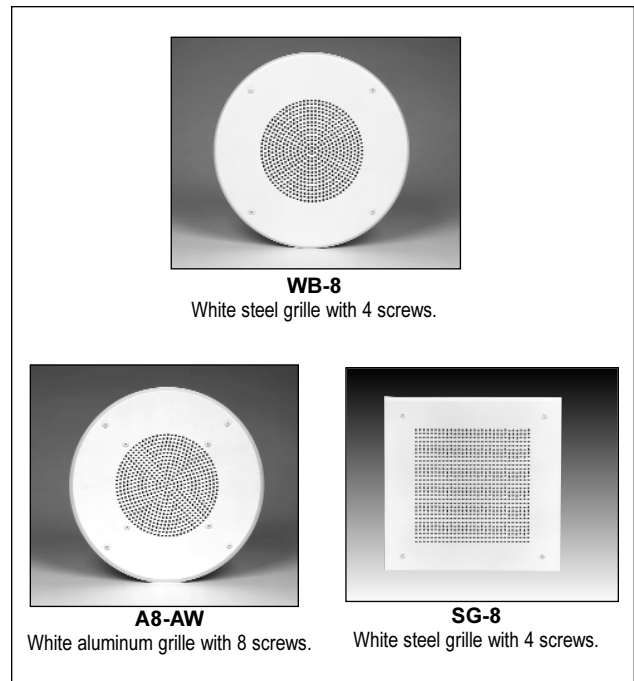
Speaker / transformer assemblies are manufactured to assure consistent performance with clear intelligibility and wide dispersion. Driver Model CT830 is a 20W coaxial assembly that includes separate and independent high and low frequency transducers with a built-in electrical crossover network to accomplish proper frequency selection between the two transducers. Frequency response is 50Hz-17.5kHz±6dB. Additionally, the loudspeaker's 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. Dispersion is 85° @ 2000Hz -6dB. To facilitate a variety of distributed applications each assembly includes a wired 70V transformer with 1, 2, 4 and 8W taps.

Architectural grilles are precision-formed in a choice of steel or aluminum with an attractive white finish to assure a clean presentation of the speaker assembly in a variety of decors and environmental applications. Grilles include white mounting screws for attractive installation.

Companion backboxes and accessories for Lowell C Series speakers are itemized on pages 1 and 2 to facilitate installation in a variety of applications. Selection includes recessed protective and acoustic backboxes with companion tile bridge or channel rail options (if required for suspended installation) and a surface mount backbox (see chart below). Companion accessories are ordered separately.



20 Watt Coaxial Speaker Assembly with 8W 70V Transformer
(arrives factory mounted to one of three grilles below)



Grille Selection for C Series Assemblies

Driver Specifications

Driver Model	Size	Power Rating	Type	Ceramic Magnet	Frequency Response	Dispersion	Voice Coil Impedance	Sensitivity 1W / 1M	Depth (w/o xfmr)	Weight (w/o xfmr)
CT830	8"	20W	Coaxial	10 oz. LF 2.1 oz. HF	50Hz - 17.5kHz ±6dB 50Hz - 19kHz Nominal	85° @ 2000Hz -6dB	8 Ohms	96dB Avg. 100dB Peak	3.0"	2.4 lbs.

Easy-Order Factory Assemblies

Model	Driver Model	Xfmr Model	Xfmr Taps	Grille Model	Backbox* (Order separately, Choose one, plus T-bridge or rails if required - see p.2)	+	T-Bridge or Rails (Order separately if required for suspended ceilings - see p.2)
C1830-870	CT830	TLM870 (70V)	8, 4, 2, 1W	WB-8	CP8 Series, DX58, DX108	.....	LBS8-CP or SS24 Rails
C3830-870	CT830	TLM870 (70V)	8, 4, 2, 1W	A8-AW	XCP8 Series, 8XD4, 8SPSBX	.....	LBS8 or LBS8-R1
					RF Series (blind mount)	.....	None required
					No Backbox Desired	.....	LBS8 or LBS8-R1
C7830-870	CT830	TLM870 (70V)	8, 4, 2, 1W	SG-8	P68 Series	.....	SS24 Rails
					CB84-SG (surface mount)	.....	None required

* For applications that do not require backbox protection, a mounting ring may be an alternate accessory. Assemblies with grille model WB-8 or A8-AW will accept mounting ring Model PR8, PR8-1624 or RMP8; grille Model SG-8 will not accept a mounting ring. Refer to the Lowell catalog for mounting ring specifications.



C Series (20W)

8" Coaxial Speaker Assemblies with Transformer and Grille

A & E Specifications

The 8 inch speaker assembly shall be Lowell C Series 20W Model _____. It shall include an 8" coaxial driver with wired transformer and mounted grille.

The speaker shall have a 20 watt RMS power rating and employ a 10 oz. ceramic magnet. Frequency response shall be 50Hz - 17.5kHz ±6dB. Sensitivity shall be 96dB Avg. (100dB Peak) measured 1W/1M.

The transformer shall be a factory wired 70V unit and shall have primary taps available at 1, 2, 4, 8 watts. The grille shall be factory mounted to the speaker and shall be manufactured of _____ (steel, aluminum) and finished in white.

Optional mounting accessories include Lowell backbox Model _____ or mounting ring Model _____. For suspended ceiling installations, Lowell tile bridge Model _____ or channel rail (pr.) Model _____ shall be used to transfer the speaker assembly weight to the ceiling's support structure.

Each Lowell product is manufactured to the same exacting standards using precision forming and finishing technology. This ensures that each item will be precisely the same and will provide trouble-free installation and professional appearance.

Companion Accessories for C Series (order separately)



Lowell offers a wide selection of backboxes for efficient installation of C Series speaker assemblies into a variety of ceiling types. Please refer to the chart on page 1 to identify the backbox and/or tile bridge combination choices for each speaker assembly (determined by the assembly grille). T-bridges and channel rails are also offered to distribute the speaker assembly weight in suspended ceiling installations.

Accessory Backbox* Details for C Series Assemblies

Model	Size	Features	Options (suffix model)
CP84	11.938" Dia. x 4.063"D	Extended lip for sheetrock	---
CP87	11.938" Dia. x 6.687"D	Extended lip for sheetrock + batting	---
CP810	11.938" Dia. x 10.063"D	Extended lip for sheetrock + batting	---
DX58	11.938" Dia. x 11.938"D	0.5 cu.ft., extended lip + batting	---
DX108	15" Dia x 10.125"D	1 cu.ft., extended lip + batting	---
RF841	10.063" Dia. x 4.063"D	Retrofit w tension brkt. + torsion	---
RF871	10.063" Dia. x 6.688"D	Retrofit w tension brkt. + torsion	---
XCP84	10.063" Dia. x 4.063"D	Flat flange for tile ceiling	-S (straps)
XCP87	10.063" Dia. x 6.687"D	Flat flange for tile ceiling + batting	-S (straps)
XCP810	10.063" Dia. x 10.063"D	Flat flange for tile ceiling + batting	-S (straps)
8PSBX	10" Dia. x 4"D	Plastic, stacks for warehousing	---
8XD4	10" Dia. x 4"D	Steel, stacks for warehousing	-P (plenum), -S (straps)
P68X	10" Sq. x 4"D	Standard	---
P68X-6	10" Sq. x 6"D	Extra depth	---
P68X-10	10" Sq. x 10"D	Extra depth	---
CB84-SG	11.5" Sq. x 4"D	Surface, White	---

Accessory T-Bridge and Channel Rail Details for C Series Assemblies

LBS8-CP	23.75"L Round opening for CP Series and DX108 backboxes only
LBS8	23.75"L Square opening with screw or Twist n' Lock grille mounting
LBS8-R1	23.75"L Round opening with screw or Twist n' Lock grille mounting
SS-24	23.75"L Channel rails (pair)

* For applications that do not require backbox protection, a mounting ring may be an alternate accessory. Assemblies with grille model WB-8 or A8-AW will accept mounting ring Model PR8, PR8-1624 or RMP8; grille Model SG-8 will not accept a mounting ring. Refer to the Lowell catalog for mounting ring specifications.

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12"10"
Speakers &
Accessories

8"
Speakers &
Accessories

6"
Speakers &
Accessories

4"
Speakers &
Accessories

Horn
Speakers &
Accessories

Masking
Speakers &
Generators

Control
Accessories
& Electronics

Systems