

AD-C820/C821 AcousticDesign[™] High-output Ceiling Mount Loudspeakers

Features

- 8" low-frequency woofer
- 1.4" diaphragm compression driver
- 200 watt continuous power rating
- 70V/100V multi-tap transformer included (system can operate in distributed or low-impedance mode)
- AD-C820 transducer/baffle assembly for separated backcan installation
- AD-C821 designed as a fully integrated blind-mount system

The AD-C820 and AD-C821 are acoustically identical and designed for music playback, public address and distributed audio in applications that require high output from a ceiling mounted loudspeaker. The AcousticDesign[™] Series of installation loudspeakers has been designed for trouble free operation and versatility. Both models use custom designed transducers and crossover networks, in combination with an acoustically optimized enclosure (AD-C800BB), or as a fully integrated, sealed system (AD-C821). These loudspeakers continue the AD Series philosophy of bringing natural and accurate sound quality combined with versatility and reliability to high-ceiling applications.

The AD-C820 assembly includes the coentrant transducers, a 70V/100V transformer and a crossover mounted on an ABS baffle. When ordered as a system (AD-C820R SYSTEM; AD-C820S SYSTEM) the backbox (AD-C800BB) and a round or square grille are included.

The AD-821 is a fully integrated, factory sealed system using a "dog-ear" style mounting scheme. When ordered as a system (AD-C821R SYSTEM; AD-C821S SYSTEM) a set of tile rails and a c-ring are included as is a round or square grille.

The 8" woofer is equipped with a treated paper cone on a steel frame. In the optimized enclosure the usable low frequency of the system extends to 52 Hz. The 1.4" compression driver fires through the center of the woofer and is acoustically mated to the woofer for a smooth transition at crossover. The system achieves 90 degree axisymmetric coverage.

High-current, low tolerance network components provide smooth full-range, passive performance. The included 70V/100V, custom designed transformer is optimized for low line loss as well as accurate and transparent acoustic performance.

AD-C820/C821 loudspeakers The measure 91dB sensitivity (1W/1m) and at full continuous power are capable of producing 114 dB SPL (1W/1m) output.

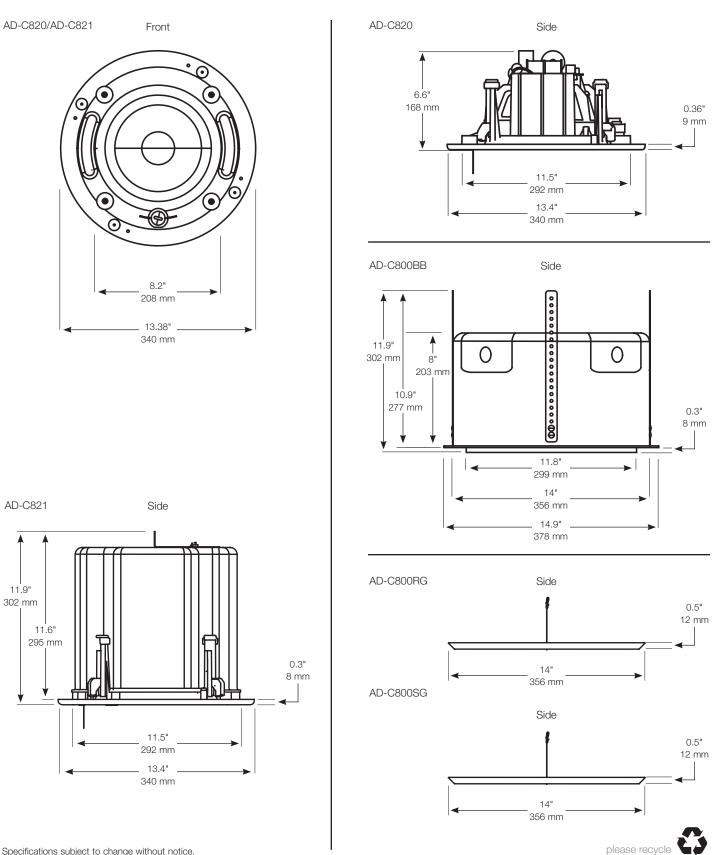


1) All frequency ranges specified refer to measured half-space response (2 p 2) Calculated maximum peak SPL at 1 m, half-space, speaker operating at rated ms power pink noise input, 50 Hz – 20 kHz. 3) Maximum input power tested in accordance with IEC recommendations; 50 Hz – 20 kHz band limiting, 6 dB signal crest factor.

Specifications	AD-C820	AD-C821
Configuration	Passive	
Transducers		
Low-frequency High-frequency	8" (203 mm) ferrite woofer 1.4" (36 mm) neodymium compressior	a drivor
Frequency Range ¹	1.4 (30 mm) neodymium compression	
Frequency Response (-6	61 Hz – 18 kHz	
dB)	52 Hz – 18 kHz	
Useable Frequency Range		
(-10 dB)		
Maximum Output ²		
Calculated Peak Output Calculated Continuous	120 dB SPL 114 dB SPL	
Output	THE UD OF L	
Nominal Coverage	90° horizontal and vertical	
Nominal Impedance	16Ω	
Power Rating		
RMS Power Handling ³	200 W	
Recommended Max Amp	400 W	
Power		
Sensitivity	91 dB SPL, 1W/1m	
Bass Loading	Ported	
Transformers		
Туре	Custom low distortion laminated core, wide bandwidth design	
Taps	100 V: 16Ω bypass, 100 W, 50 W, 25 W 70 V: 16Ω bypass, 100 W, 50 W, 25 W, 12.5 W	
Agency Rating	CE, UL 1480 (commercial/professiona	I use) UL 2043 (air handling spaces
Enclosure Volume	AD-C800BB: 18 L (0.64 ft ³)	18 L (0.64 ft ³)
Enclosure		
Connectors	Back box (AD-C800BB): ceramic	Two 2-pin Euro-style connectors
	block connector inputs and	
	"through" connectors (rated for 400 W max). Loudspeaker Baffle (AD-	
	C820): 10-pin MATE-N-LOK™ con-	
	nector and faston connectors.	
Mounting Hardware	Pre-installed, suspended, back box,	Captive, integral Mounting
	four vertical mounting straps.	Clamps. Insert enclosure into
	Loudspeaker Baffle: captive, integral	mounting hole, and tighten.
	Mounting Clamps.	Suspended ceiling Split-ring and Suspended Ceiling Tile Rails -
		sold separately.
Weight - Net	AD-C820: 8 lb (3.6 kg)	16 lb (7.3 kg)
	AD-C800BB: 9.5 lb (4.3 kg)	
	System Weight: 17.5 lb (7.9 kg)	
Dimensions	Diameter: 14.9" (379 mm)	Diameter: 13.4" (340 mm)
	Enclosure only Depth: 8.3" (211 mm) Enclosure with mounting straps	Depth: 11.9" (302 mm)
	Depth: 11.2" (284 mm)	
System Packages	AD-C820R SYSTEM: includes	AD-C821R SYSTEM: includes
	AD-C820 speaker baffle,	AD-C821 loudspeaker system,
	AD-C800BB backbox, AD-C800RG	AD-C800RG round grille, and set
	round grille	of tile rails and c-ring
	AD-C820S SYSTEM: includes	AD-C821S SYSTEM: includes
	AD-C820 speaker baffle, AD-C800BB backbox, AD-C800SG	AD-C821 loudspeaker system, AD-C800SG square grille, and se



AD-C820/C821



Specifications subject to change without notice.

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