

8CX Coaxial Passive Point Source



APPLICATIONS

Front Fill
Cinema / Theater
FX Speakers
Convention Centers
Educational Facilities
Night Clubs

FEATURES

Coaxial, Horn-loaded Two-Way Passive

LF Device: 8 in. (203.2mm)

HF Device:

Exit: 1 in. (25.4mm) Voice Coil Diam: 1.75 in.(44.5mm)

Coverage Options: 70° H x 70° V | 100° H x 100° V

Integral Rigging Points & Pole Mount

Durable Polyurea Coating
NL4 SpeakON Connectors
& 2-Pos. Terminal Strip

GENERAL DESCRIPTION

Clair Brothers 8CX loudspeaker has been designed as a hi-fidelity, small-format point source speaker. The frequency response is full range, 88Hz–20,000Hz, allowing for use for speech and music reproduction. The 8CX features the latest in neodymium coaxial transducer technology with a pair of options in horizontal dispersion angles. A 100° conic horn is available and best suited for near field coverage applications and a 70° conic constant directivity horn is also available for applications requiring tighter coverage and increased projection. The dispersion specification is noted in the following unique product ID's: 8CX-P-100, 8CX-P-70.

The 8CX features a SpeakON In/thru connectors as well as a single two-position terminal strip. An internal passive crossover network provides third-order filtering allowing for exceptionally clear output with remarkable coherence through the crossover region. The 8CX is well-suited for front fill applications with full PA systems just as it is equally well equipped to stand alone as a main speaker in a smaller environment.

Mechanical & Accessories:

Llke its series companions, the 5CX and 5CB, the 8CX offers a seemingly unlimited number of ways to rig and/or mount utilizing a family of mounting accessories. The 8CX has (12) integral mounting points (M10 x 1.5 thread) and an integrated standard pole mount. The

accessories include yoke mounting brackets for both vertical and horizontal mounting positions as well as tilt adaptors to enable pan and tilt in either configuration. The brackets also have a companion pole mount socket to allow unrestrained pan and tilt when used as a pole mount speaker. Additional accessories include: threaded stud plates, pipe clamp mounts, chain rigging points, VESA tilt mount and array mode top-bar plates.

The 8CX is well-suited for down-firing applications, such as large convention centers or high ceiling commercial spaces. In particular, the pair of mounting points available on each panel of the cabinet are spaced at the same spacing as slots on standard Unistrut hardware, allowing for exceptional compatibility in commercial integration projects. Please contact Clair Brothers for more information regarding coverage area planning and simulation.

OPTIONS & ACCESSORIES

Vertical and Horizontal Yoke Mounting Brackets w/ Tilt Adaptors

Threaded Stud Plates (M10, 3/8-16, 1/2-13) Pipe Clamp Mount Chain Rigging Points VESA Tilt Mount Array Mode Top-Bar Plates

Call or e-mail Clair Brothers for more information on available options. (717-665-4000) e-mail: sales@clairbrothers.com

8CX Coaxial Passive Point Source

AUDIO SPECIFICATIONS

Loudspeaker Type Passive Coaxial Point Source

Frequency Response 100Hz-18kHz (+/- 2dB) | 88Hz-20kHz (-10dB)

Recommended Power Amplifier 250–500W @ 8 Ohms

Sensitivity (1 Watt @ 1 Meter) LF 97 dB SPL

HF 106 dB SPL Passive 99 dB SPL

Maximum Output 128 dB SPL

Drivers LF (1) 8 in. (203.2mm)

HF (1) Exit 1 in. (25.4mm); VC diam. 1.75 in. (44.5mm)

Nominal Impedance 8 Ohms

Power Handling 250W Program / 500W Peak

Dispersion Options: 100° H x 100° V (Conic) | 8CX-P-100

70° H x 70° V (Conic) | 8CX-P-70

Input Connection (2) NL4 SpeakON Connectors & (1) 2-Position Terminal Strip

MECHANICAL SPECIFICATIONS

Rigging

Enclosure Shell 15mm Baltic Birch

Finish Black Polyurea Coating Integral Rigging (12) M10 x 1.5 Thread

Points

Pole Mount Integral 0° Pole Mount Socket

Grille Powder Coated Steel, Foam Backed

Dimensions Height 13.50 in. (342.9mm)

Width 8.93 in. (226.8mm)

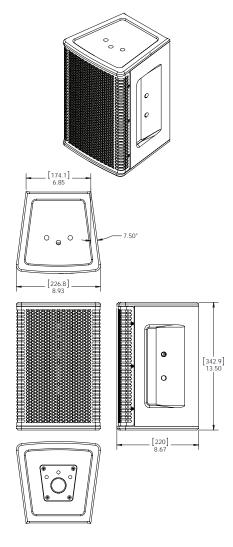
Depth 8.67 in. (220.2mm)

Weight 18 lbs. (8.2kg)
Shipping Weight 21 lbs. (9.5kg)

Note: All wattage figures are calculated using the rated nominal impedance.

Clair Brothers products are designed to perform optimally by utilizing factory recommended proprietary DSP settings





8CX Terminal Strip	Config.
Terminal Color	Use
Black	(-)
Red	(+)

8CX NL4 Pin Co	nfiguration	
Pin	Use	
1-/1+	-/+	
2-/2+	-/+	

ARCHITECT AND ENGINEER SPECIFICATIONS

The loudspeaker system shall be a two-way passive, coaxial point source loudspeaker cabinet featuring a total of (2) drivers. The front of the enclosure shall be fitted with a perforated, powder coated steel grille backed with foam. The system shall have an amplitude response of 100Hz to 18,000 Hz (+/-2 dB). The loudspeaker system shall be loaded with one woofer; this low frequency driver shall be 8" nominal diameter with 2" voice coil diameter capable of handling 250W of power as per AES Standard. The high frequency section shall consist of a 1.75" voice coil diameter compression driver mounted coaxially on a 100°H x 100°V (or 70°H x 70°V) horn. The high frequency horn shall provide complete pattern control over the bandwidth. The high frequency horn shall be a constant directivity conic profile. The driver is capable of handling 50 watts (1 kHz to 10 kHz) of pink noise with a 6 dB crest factor for two hours (as per AES-1984 and ANSI S4.26-1984 standards). The enclosure shall be trapezoidal in geometry, constructed with 15mm, 11-ply Baltic birch and covered with a durable black polyurea coating. The dimensions shall be 13.50" high, 8.93" wide, and 8.67" deep. The 8CX enclosure shall incorporate twelve (12) integral rigging points, each with M10 x 1.5 thread for mounting bracket attachment. The passive system weight shall be 18 lbs (8.2kg). The loudspeaker system shall be the Clair Brothers 8CX-P-100 or 8CX-P-70 loudspeaker.

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