



# RC80 Full Range Loudspeaker



## APPLICATIONS

Sporting Arenas  
Dance Clubs  
Entertainment Venues  
Public Address System  
Delay Fill

## FEATURES

Two-Way Passive  
LF Devices: (2) 8in. (203.2mm)  
HF Device: 1in. (25.4mm)  
Rotatable 90°H x 60°V HF  
Epoxy Mastic Finish  
(1) EP-4 Connector  
& (1) 4-Position Terminal Strip

## GENERAL DESCRIPTION

The Clair Brothers RC80 is a two-way full range high output loudspeaker designed for a variety of permanent installations. The compact, ported cabinet delivers exceptional intelligibility for speech and music program material.

The RC80 is ideal for near field and area fill uses. Other uses include delays, columns, stage aprons and balconies. The low profile design and various rigging options make the RC80 ideal for installations where space limitations are a consideration. The RC80 is also at home as a small stand-alone PA system (optional pole mount).

The RC80 has exceptional performance in a low profile cabinet measuring a mere 12.5" x 30.1" x 10.8". The speaker is ideal for a variety of venues including theaters, houses of worship, cruise ships and auditoriums.

As with all Clair Brothers products, the RC80 is constructed of the finest Baltic birch plywood and finished with a rugged exterior epoxy to withstand the most demanding conditions.

## OPTIONS & ACCESSORIES

**RC80-WR** – Weather Resistant Model

**RC80-MB** – Yoke Mounting Bracket

Custom Colors

Pole Mount Option

# RC80 Full Range Loudspeaker



## AUDIO SPECIFICATIONS

Loudspeaker Type	Two-Way Passive	
Frequency Response (+/- 2dB)	56Hz–18kHz	
Recommended Power Amplifier	600W @ 4 Ohms	
Sensitivity (1 Watt @ 1 Meter)	95 dB SPL	
Maximum Output	Cont.	125 dB SPL
Drivers	LF	(2) 8 in. (203.2mm)
	HF	(1) 1 in. (25.4mm)
Nominal Impedance	4 Ohms	
Power Handling	Cont.	440W
	Peak	1000W
Dispersion	Nominal -6dB	90° H x 60° V (Rotatable)
Input Connection	Standard	(1) 4-Position Terminal Strip & (1) EP-4 Connector

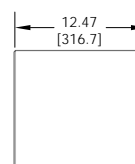
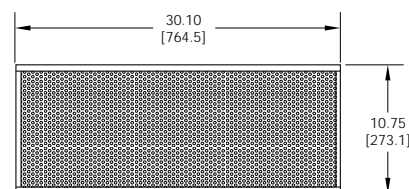
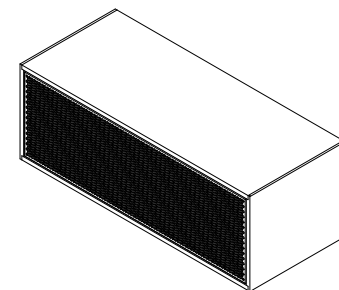
## MECHANICAL SPECIFICATIONS

Enclosure	Shell	18mm / 12mm Baltic Birch
	Finish	Black Epoxy Mastic
Grille	Perforated Steel, Foam Backed	
Dimensions	Height	10.75 in. (273.1mm)
	Width	30.10 in. (764.5mm)
	Depth	12.47 in. (316.7mm)
Weight	48 lbs. (21.8kg)	
Shipping Weight	(2 total)	115 lbs. (52.3kg), packed as pair
	(4 total)	211 lbs. (95.9kg), packed as quad
Rigging Option	[Optional <sup>1</sup> ]	[Integrated Pole Mount <sup>1</sup> ]

<sup>1</sup> Pole mount is not a standard feature; must specify pole mount on order.

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.



### RC80 Passive Pin Configuration

Terminal Color	Use	EP-4
Black	Low (-)	1
Black	High (-)	3
White	High (+)	4
Red	Low (+)	2

## ARCHITECT AND ENGINEER SPECIFICATIONS

The loudspeaker shall be a two-way passive system featuring a total of three drivers. The low/mid frequency section shall consist of two (2) 8" drivers capable of handling 440 watts of pink noise with a 6 dB crest factor for 8 hours (as per EIA RS-426-A standard). The high frequency section shall consist of a 1" exit, 1.7" voice coil compression driver mounted on a 90°H x 60°V rotatable horn. The driver is capable of handling 80 watts (1kHz to 10kHz) 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 constructed with 18mm, 13-ply and 12mm, 9-ply Baltic birch and covered with a durable epoxy mastic finish. The dimensions shall be 10.75" high, 30.10" wide, and 12.47" deep. The system weight shall be 48 lbs. The loudspeaker system shall be the Clair Brothers RC80 loudspeaker.

CLAIR BROTHERS • ONE CLAIR BOULEVARD • MANHEIM, PA 17545 • 717-665-4000 • WWW.CLAIRBROTHERS.COM

CBAS20140828

Due to constant research, development and improvements all specifications are subject to change without notice.

