



R4-III Loudspeaker



Applications

Live Sound Venues
Performing Arts Centers
Houses of Worship
Stadiums/Arenas
Dance Clubs
Cruise Ships
Sports Facilities

Features

Max Output 137 dB
LF Device: 1x18in. (457.2mm)
MF Device: 1x12in. (304.8mm)
HF Device: 1x2 in. (50.8mm)
Rotatable 90° x 40° HF
Black Epoxy Mastic Finish
EP-8 Connector

GENERAL DESCRIPTION

The R4 Series III is a full range, three-way loudspeaker system that remains one of Clair Brothers most popular cabinets. The R4-III incorporates an innovative Directional Baffle Midrange System (DBM™) that creates high intelligibility. The R4-III has been engineered for optimal individual performance or in horizontal or vertical arrays.

This touring cabinet is also ideal as an installed system for clubs, proscenium theaters, auditoriums, and amphitheaters. A single 18" transducer produces solid low end reproduction. High frequency is provided by a 2" compression driver attached to a 90° x 40° or 60° x 40° constant-directivity horn, which may be rotated for several coverage options. An independently loaded midrange transducer is augmented through the DBM™ system.

The DBM™ is not a conventional horn, but an extension of the conical shape of the twelve-inch midrange transducer. The R4-III is thus able

to achieve high intelligibility ("Q") without the harshness inherent in traditional horn-loaded systems.

With the introduction of this system, the R4-III delivers improved overall response, requiring no additional low frequency reinforcement. The result is smooth, transparent reproduction of speech and music program material.

Constructed of Baltic birch, the cabinet stands up to the requirements of any professional audio application. Notched extruded aluminum corners provide rigging and dolly caster support as well as added protection against corner abrasions.

OPTIONS

DOL-4 - (1) Pair Dolly Wheels
R4 Top-Bar and Nunchuck Assembly
60° H x 40° V Constant Directivity Horn
Custom Rigging
Custom Exterior Color Choices

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

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AUDIO SPECIFICATIONS

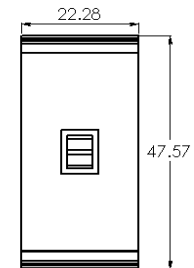
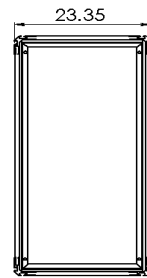
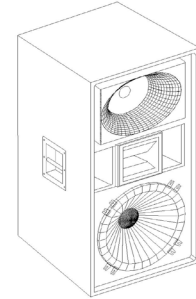
Loudspeaker Type:	Three-Way Active		
Frequency Response (+/-2dB):	40Hz–18kHz		
Recommended Power Amplifier:	1,200W to 1,800W @ 8 Ohms		
Sensitivity (1 W @ 1 M):	LF:	99 dB SPL	
	MF:	103 dB SPL	
	HF:	113 dB SPL	
Maximum Output:	131 dB SPL Cont. 137 dB SPL Peak		
Drivers:	LF:	18 in. (457.2mm)	
	MF:	12 in. (304.8mm)	
	HF:	2 in. (50.8mm)	
Nominal Impedance:	LF:	8 Ohms	
	MF:	8 Ohms	
	HF:	16 Ohms	
Power Handling:	LF:	800W Cont.	
	MF:	300W Cont.	
	HF:	150W Cont.	
Dispersion:	Nominal -6dB:	90° H x 40° V	(Rotatable)
	(Optional)	60° H x 40° V	(Rotatable)
Input Connection:	EP-8 Connector		

MECHANICAL SPECIFICATIONS

Enclosure:	Shell:	18mm, 13-Ply Baltic Birch
	Finish:	Black Epoxy Mastic
Grille:	Powder-Coated Steel, Foam Backed	
Dimensions:	Height:	47.57 in. (1208.3mm)
	Width:	23.35 in. (593.1mm)
	Depth:	22.28 in. (565.9mm)
Weight:	247 lbs. (112.0kg)	
Shipping Weight:	259 lbs. (117.5kg)	

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.



R4-III EP-8 Pin Configuration			
Pin	Use	Pin	Use
1	Low (-)	5	High (-)
2	Low (+)	6	High (+)
3	Mid (-)	7	Open (-)
4	Mid (+)	8	Open (+)

ARCHITECT AND ENGINEERS SPECIFICATIONS

The loudspeaker shall be a trapezoidal three-way active system featuring a total of three drivers. The bass section shall have one 18" driver capable of handling 800 watts of pink noise with a 6 dB crest factor for 8 hours (as per EIA RS-426-A standard). The mid range section shall be the CBAS Directional Baffle Midrange™ system with a 12" driver / DBM™ System capable of handling 300 watts of continuous pink noise with a 6 dB crest factor for 8 hours (as per EIA RS-426-A standard). The midrange driver shall be loaded independent of the low frequency components, occupying its own sealed cavity. The high frequency section shall have a single 2" compression driver and shall be attached to a 90° x 40° constant-directivity horn. The driver shall be capable of handling 150 watts (1 kHz -10 kHz) of pink noise with a 6 dB crest factor for 2 hours (as per AES-1984 and ANSI S4.26-1984 standards). The crossover frequencies shall be 250 Hz and 1.6 kHz. The enclosure shall be constructed of 18mm, 13-ply Baltic Birch and be covered with black epoxy mastic. The R4-III shall also feature notched extruded aluminum corners. Dimensions shall be 47.57" high, 23.35" width, and 22.28" deep. The system weight shall be 247 lbs. (112.0kg). The loudspeaker shall be the R4 Series III.

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

