



R4-IV Full Range Loudspeaker



APPLICATIONS

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

FEATURES

Max Output 137 dB SPL
LF Device: 18 in. (457.2mm)
MF Device: 12 in. (304.8mm)
HF Device: 2 in. (50.8mm)
Integrated Corner Cargo Track
Rigging
Rotatable 90°H x 40°V HF
Epoxy Mastic Finish
EP-8 Connector

GENERAL DESCRIPTION

The R4-IV is a full range, three-way loudspeaker system that remains one of Clair Brothers most popular cabinets. The R4-IV incorporates an innovative Directional Baffle Midrange System (DBM™) that creates high intelligibility. The R4-IV 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°H x 40°V (or 60°H x 40°V) 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-IV 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-IV 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 & ACCESSORIES

DOL-R4 – (1) Pair R4 Dolly/Transport Wheels

R4-TB / -NUNCHUCK – Hanging Fixtures
Top-Bar and Nunchuck Assemblies

60° H x 40° V Constant Directivity Horn

Custom Rigging

Custom Colors Available

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

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AUDIO SPECIFICATIONS

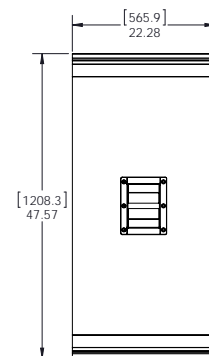
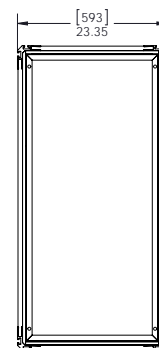
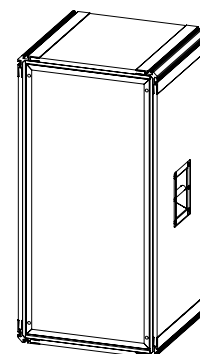
Loudspeaker Type	Three-Way Active	
Frequency Response (+/- 2dB)	Single Cabinet	40Hz–18kHz
Recommended Power Amplifier	1200–1800W @ 8 Ohms	
Sensitivity (1 Watt @ 1 Meter)	LF	99 dB SPL
	MF	103 dB SPL
	HF	113 dB SPL
Maximum Output	Cont.	131 dB SPL
	Peak	137 dB SPL
Drivers	LF	(1) 18 in. (457.2mm)
	MF	(1) 12 in. (304.8mm)
	HF	(1) 2 in. (50.8mm)
Nominal Impedance	LF	8 Ohms
	MF	8 Ohms
	HF	16 Ohms
Power Handling	LF	800W
	MF	300W
	HF	150W
Dispersion	Nominal -6dB	90° H x 40° V (Rotatable)
	Optional	60° H x 40° V (Rotatable)
Input Connection	(1) EP-8 Connector	

MECHANICAL SPECIFICATIONS

Enclosure	Shell Finish	18mm, 13-Ply Baltic Birch Black Epoxy Mastic
Grille	Powder-Coated Steel, Foam Backed	
Dimensions	Height	47.57 in. (1208.3mm)
	Width	23.35 in. (593.0mm)
	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-IV 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 ENGINEER SPECIFICATIONS

The loudspeaker shall be a 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 midrange section shall be Clair Brothers' 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°H x 40°V constant-directivity horn (with option of 60°H x 40°V 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-IV 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-IV.

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

