



# R3T-II Full Range Loudspeaker



## APPLICATIONS

Live Sound Reinforcement  
Theaters  
Houses of Worship  
Dance Clubs  
Cruise Ships  
Entertainment Venues

## FEATURES

Three-Way Active  
Trap Design with Integrated  
Mounting Points  
LF Device: 18 in. (457.2mm)  
MF Device: 12 in. (304.8mm)  
HF Device: 2 in. (50.8mm)  
Rotatable 90°H x 40°V HF  
Epoxy Mastic Finish  
EP-8 & 6-Pos. Terminal Strip  
Connectors

## GENERAL DESCRIPTION

Engineered for a variety of tasks, the R3T-II is the first full range, three-way trapezoidal loudspeaker with the innovative Directional Baffle Midrange system (DBM™).

This cabinet is designed to provide high intelligibility while maintaining a dynamic full-range sound.

Designed for individual performance or as part of a multiple cabinet system, the R3T-II is ideal for permanent installations or as a low profile system for a variety of live entertainment venues.

The reduced horizontal profile, with a slight front-to-back taper allows cabinets to be splayed. A single 18" transducer produces solid low-end reproduction to 40Hz.

High frequency is provided by a 2" compression driver coupled with a 90° H x 40° V or 60° H x 40° V constant-directivity horn, which may be rotated to provide coverage options.

An independently loaded 12" midrange transducer is augmented through the DBM™ system.

As with all Clair Brothers products, the R3T-II is constructed of the finest Baltic birch and finished with a rugged exterior epoxy to withstand the most demanding conditions.

The speaker grille is constructed of a durable mesh for exceptional protection against wear.

## OPTIONS & ACCESSORIES

60° H x 40° V Constant Directivity Horn  
Custom Rigging  
Custom Colors Available

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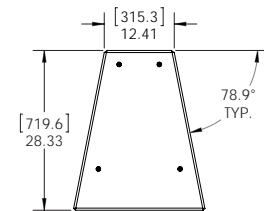
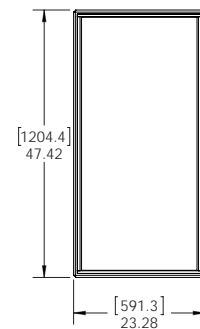
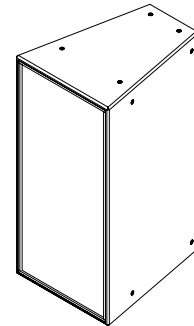
## AUDIO SPECIFICATIONS

Loudspeaker Type		Three-Way Active
Frequency Response (+/- 2dB)	Single Cabinet	40Hz–20kHz
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	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
	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 & (1) 6-Position Terminal

## MECHANICAL SPECIFICATIONS

Enclosure	Shell	18mm Baltic Birch
	Finish	Black Epoxy Mastic
Grille		Fabric Mesh
Dimensions	Height	47.42 in. (1204.4mm)
	Front Width	23.28 in. (591.3mm)
	Rear Width	12.41 in. (315.3mm)
	Depth	28.33 in. (719.6mm)
Weight		221 lbs. (100.2kg)
Shipping Weight		255 lbs. (115.6kg)

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.



### R3T-II Configuration

PIN	USE	Terminal Strip	
		Left to Right	USE
1	Low (-)	Bottom - 1	Low (-)
2	Low (+)	2	Low (+)
3	Mid (-)	3	Mid (-)
4	Mid (+)	4	Mid (+)
5	High (-)	5	High (-)
6	High (+)	Top - 6	High (+)
7	Open (-)		
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 6dB crest factor for 8 hours (as per EIA RS-426-A standard). The midrange section shall be the CBAS Directional Baffle Midrange section (DBM)<sup>™</sup> with a 12" driver 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 R3T-II shall also feature notched extruded aluminum corners. The Directional Baffle Midrange System<sup>™</sup> is not a conventional horn, but an extension of the conical shape of the 12" midrange transducer. The R3T is thus able to achieve high intelligibility ("Q") without the harshness inherent in traditional horn-loaded systems, delivering improved overall response, and requiring no additional low-end support. The result is smooth, transparent reproduction of speech and music program material. Dimensions shall be 47.42" high, 23.28" front width tapering 11.1° to a 12.41" rear width, and 28.33" deep. The system weight shall be 221 lbs. (100.2kg). The loudspeaker shall be the Clair Brothers R3T-II.

Clair Brothers Asia | 143 Cecil Street, GB building Singapore 069542

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