



R2x2T Full Range Loudspeaker



APPLICATIONS

Performing Arts Centers
Theaters / Auditoriums
Cruise Ships
Houses of Worship
Theme Parks
Sports Facilities

FEATURES

Three-Way Active

Trap Design with Integrated
Mounting Points & Horizontal
Infrastructure Rigging

LF Device: 12 in. (304.8mm)

MF Device: 12 in. (304.8mm)

HF Device: 2 in. (50.8mm)

Rotatable 90°H x 60°V HF

EP-8 Connector
& 6-Position Terminal Strip

GENERAL DESCRIPTION

The Clair Brothers R2x2T is an arrayable, three-way, tri-amped speaker system designed for applications requiring super high performance and intelligibility with extended low frequency response in a compact package.

The R2x2T builds on the quality and flexibility of the R2T while adding a dedicated 12" woofer, just for the low end program material. This extends the low frequency response of the system and improves efficiency, making this box a very potent addition to any designer's arsenal of tools. The R2x2T uses the same rotatable horn options as the R2T, allowing it to be rigged in either a vertical or horizontal configuration. Extensive rigging options and custom colors are available to fit any architectural challenge.

When you need a system that packs a punch and fits in a very tight space, the R2x2T is the right choice.

As with all Clair Brothers products, the R2x2T is constructed of the finest Baltic birch plywood and finished with a rugged exterior epoxy to withstand the most demanding conditions.

The speaker grille is constructed of durable 14 gauge perforated steel with a powder coated finish and a reticulated foam back.

OPTIONS & ACCESSORIES

90° H x 40° V Rotatable Horn

R2x2T-MB – Yoke Mounting Bracket (horizontal)

Custom Rigging

Custom Colors Available

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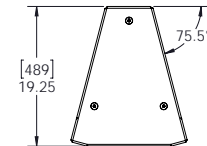
AUDIO SPECIFICATIONS

Loudspeaker Type	Three-Way Active	
Frequency Response (+/- 2dB)	46Hz–18kHz	
Recommended Power Amplifier	1200–1500W Peak @ 8 Ohms	
Sensitivity (1 Watt @ 1 Meter)	LF	100 dB SPL
	MF	110 dB SPL
	HF	112 dB SPL
Maximum Output	Cont.	130 dB SPL
	Peak	132 dB SPL
Drivers	LF	(1) 12 in. (304.8mm)
	MF	(1) 12 in. (304.8mm)
	HF	(1) 2 in. (50.8mm)
Nominal Impedance	LF	8 Ohms
	MF	4 Ohms
	HF	16 Ohms
Power Handling	LF	500W
	MF	300W
	HF	150W
Dispersion	Nominal -6dB	90° H x 60° V (Rotatable)
	Optional	90° H x 40° V (Rotatable)
Input Connections	Standard	(1) EP-8 Connector & (1) 6-Position Terminal Strip

MECHANICAL SPECIFICATIONS

Enclosure	Shell	18mm Baltic Birch
	Finish	Black Epoxy Mastic
Grille	Perforated Steel, Foam Backed	
Dimensions	Height	43.88 in. (1114.5mm)
	Front Width	16.00 in. (406.4mm)
	Rear Width	6.44 in. (163.6mm)
	Depth	19.25 in. (489.0mm)
Weight	134 lbs. (60.8kg)	
Shipping Weight	TBD	

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.



R2x2T Configuration

EP-8		Terminal Strip	
PIN	USE	Left to Right	USE
1	Low (-)	Bottom - 1	Low (-)
2	Low (+)		2
3	Mid (-)	4	Mid (-)
4	Mid (+)		4
5	High (-)	5	High (-)
6	High (+)		5
7	Open (-)	Top - 6	High (+)
8	Open (+)		

ARCHITECT AND ENGINEER SPECIFICATIONS

The loudspeaker shall be a three-way active system featuring a total of three (3) drivers. The low frequency section shall contain a single 12" driver capable of handling 500 watts of pink noise with a 6 dB crest factor for 8 hours (as per EIA RS-426-A standard). The mid frequency section shall contain a 12" driver capable of handling 300W of pink noise with a 6 dB crest factor for 8 hours (as per EIA RS-426-A standard). The high frequency section shall contain a 2" compression driver and shall be coupled to a rotatable 90° H x 60° V constant-directivity horn [90° H x 40° V option, if specified]. The driver shall be capable of handling 150 watts (1 kHz-10 kHz) of pink noise with a 6dB crest factor for 2 hours (as per AES-1984 and ANSI S4.26-1984 standards). The enclosure shall be constructed of 18mm, 13-ply Baltic birch and be covered with a black epoxy mastic and shall provide horizontal infrastructure rigging. The cabinet shall also have integrated mounting points. Dimensions shall be 43.88" high, 16.00" front width tapering 14.5° to a 6.44" rear width, and 19.25" deep. The system weight shall be 134 lbs. (60.8kg). The loudspeaker system shall be the Clair Brothers R2x2T.

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