



# R2T Full Range Loudspeaker



## APPLICATIONS

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

## FEATURES

Two-Way Active  
LF Device: 12in. (304.8mm)  
HF Device: 2in. (50.8mm)  
Trap Design with Integrated  
Mounting Points  
Rotatable 90° x 40° HF  
Multiple Mounting Options  
EP-4 Connector

## GENERAL DESCRIPTION

The Clair Brothers R2T is an arrayable two-way bi-amped speaker system designed for a variety of applications requiring high performance and intelligibility from a small speaker package.

The R2T is built both for easy portability or fixed installations. Applications include: theaters, houses of worship, auditoriums, industrial PA, speech and music reinforcement.

The R2T's 12" cone transducer offers extremely efficient low-end coupling when arrayed, providing solid lows to 50 Hz. The high-end section features a 2" compression driver coupled with a 90° H x 40° V (or 60° H x 40° V) rotatable horn, offering superb dispersion for both nearfield and medium throw applications.

The trapezoidal design allows cabinets to be arrayed in clusters which minimizes loudspeaker pattern overlap and phase cancellation for coherent sound distribution.

As with all Clair Brothers products, the R2T 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

**R2T-WR** – Weather Resistant Model

**R2T-P** – Passive Model

60° H x 40° V Rotatable Horn

**R2T-AK2** – Array Kit for (2xWide) R2T

**R2T-AK3** – Array Kit for (3xWide) R2T

Custom Rigging

Custom Colors Available

Terminal Strip Connector

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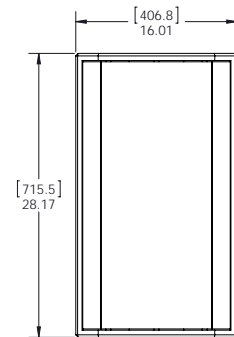
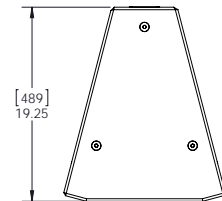
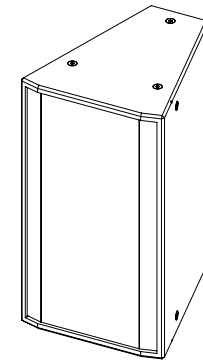
## AUDIO SPECIFICATIONS

Loudspeaker Type	Two-Way Active	
Frequency Response (+/- 2dB)	50Hz–18kHz	
Recommended Power Amplifier	LF	1200W Peak @ 8 Ohms
	HF	150W Peak @ 16 Ohms
Sensitivity (1 Watt @ 1 Meter)	97 dB SPL	
Maximum Output	Cont.	121 dB SPL
	Peak	126 dB SPL
Drivers	LF	12 in. (304.8mm)
	HF	2 in. (50.8mm)
Nominal Impedance	LF	8 Ohms
	HF	16 Ohms
Power Handling	LF	300W
	HF	150W
Dispersion	Nominal -6dB	90° H x 40° V (Rotatable)
	Optional	60° H x 40° V (Rotatable)
Input Connections	Standard	(1) EP-4 Connector
	Optional	(1) 4-Position Terminal Strip

## MECHANICAL SPECIFICATIONS

Enclosure	Shell	18mm Baltic Birch
	Finish	Black Epoxy Mastic
Grille	Perforated Steel, Foam Backed	
Dimensions	Height	28.17 in. (715.5mm)
	Front Width	16.01 in. (406.8mm)
	Rear Width	6.31 in. (160.3mm)
	Depth	19.25 in. (489.0mm)
Weight	Active	98 lbs. (44.4kg)
	Passive	105 lbs. (47.6kg)
Shipping Weight	Active	106 lbs. (48.1kg)
	Passive	113 lbs. (51.2kg)

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.



### R2T Active EP-4 Pin Configuration

PIN	USE
1	Low (-)
2	Low (+)
3	High (-)
4	High (+)

### R2T Passive EP-4 Pin Configuration

PIN	USE
1 & 3	(-)
2 & 4	(+)

## ARCHITECT AND ENGINEER SPECIFICATIONS

The loudspeaker shall be a two-way active system featuring a total of two drivers. The low frequency section shall contain a single 12" driver capable of handling 300 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 contain a single 2" compression driver and shall be coupled to a rotatable 90° H x 40° V (or optionally, 60° H x 40° V) 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 enclosure shall be constructed of 18mm, 13-ply Baltic birch and be covered with a black epoxy mastic. Rigging shall be accomplished via infrastructure through the cabinet. Dimensions shall be 28.17" high, 16.01" front width tapering to a 6.31" rear width, and 19.25" deep. The system weight shall be 98 lbs. (44.4kg). The loudspeaker system shall be the Clair Brothers R2T.

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