



CAT215 Curved Line Array



APPLICATIONS

Performing Arts Centers
Cruise Ships
House of Worship
Theaters / Auditoriums

FEATURES

Curved Array Technology
Max Output 137 dB SPL**
LF/MF Devices: (2) 15 in. (381mm)
HF Devices: (2)
Exit: 1.4 in. (35.6mm)
Voice Coil Diam: 3.0 in. (76.2mm)
100° H x 25° V Coverage
Three-Way Active
Black or Custom Finishes
Terminal Strip Connector

** [Single cabinet, Peak]

GENERAL DESCRIPTION

The CAT™ 215 system is an innovative design that has all of the advantages of a traditional line array which includes minimal lobing and cancellation but uses fewer speaker modules.

Each waveguide module (single cabinet) provides 100° of horizontal coverage and 25° of vertical coverage. When vertically flown, the three CAT™ waveguide modules (3 cabinets) create a seamless 75° vertical by 100° horizontal coverage pattern.

The CAT™ system uses three cabinets to achieve a larger coverage area compared to traditional line arrays. Traditional line arrays require more than three cabinets to achieve the same coverage equal to the CAT™ system. Additionally, many line arrays lack adequate horizontal and vertical coverage, thus requiring additional "fill" cabinets to achieve the desired coverage.

The patented CAT™ rigging system fuses each speaker cabinet together to create a seamless cosmetically appealing vertical array.

Clair Brothers combines amplification, and proprietary DSP processing in a portable rack system. Custom cabling is available and can be pre-wired for specific installation requirements.

As with all Clair Brothers products, the cabinet is constructed of the finest Baltic birch and finished with a rugged exterior epoxy.

OPTIONS & ACCESSORIES

Full Cluster Transport Dolly / Installation Cradle
for (3x) CAT™ Array

CS218 Subwoofer Package

Custom Rigging

Custom Grille and Exterior Color Choices

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)	39Hz–20kHz	
Recommended Power Amplifier	1200–2400W @ 8 Ohms	
Sensitivity (1 Watt @ 1 Meter)	LF/MF	98.5 dB SPL
	HF	100 dB SPL ¹
Maximum Output	Cont.	134 dB SPL*
	Peak	137 dB SPL**
Drivers	LF/MF	(2) 15 in. (381.0mm)
	HF	(2) Exit 1.4 in. (35.6mm); Voice coil diameter 3.0 in. (76.2mm)
Nominal Impedance	LF/MF	8 Ohms
	HF	8 Ohms
Power Handling	LF/MF	1200W Cont.
	HF	320W Cont.
Dispersion	Single Cabinet	100° H x 25° V
	Three Cabinet Array	100° H x 75° V
Input Connection	(1) 6-Position Terminal Strip	

MECHANICAL SPECIFICATIONS

Enclosure	Shell	18mm, 13-Ply Baltic Birch
	Finish	Black Epoxy Mastic
Grille	Fabric and Perforated Steel	
Dimensions	Front Height	16.91 in. (429.6mm)
	Rear Height	6.00 in. (152.4mm)
	Width	50.93 in. (1293.5mm)
	Depth	25.64 in. (651.4mm)
Weight	161 lbs. (73.0kg)	
Shipping Weight	182 lbs. (82.6kg)	

Audio specifications are for a three (3) cabinet array, unless noted otherwise.

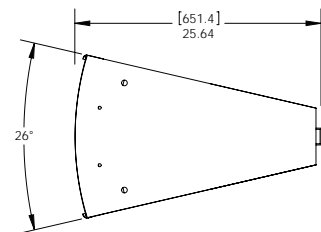
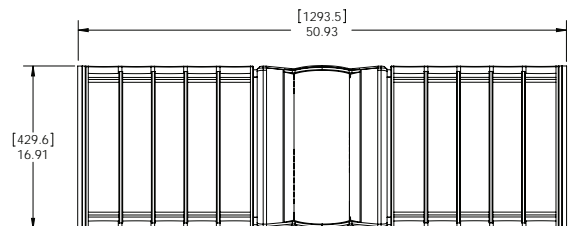
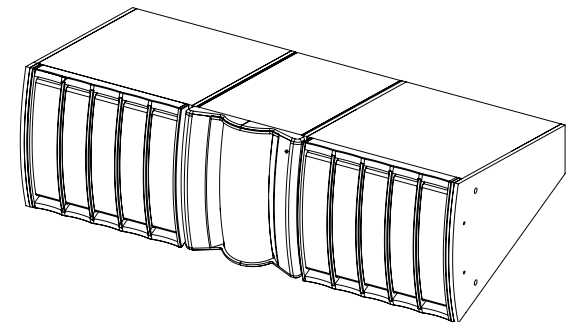
¹ Sensitivity over full bandwidth with proprietary CAT DSP.

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.

* Maximum output Cont. for single cabinet.

** Maximum output Peak for single cabinet.



CAT214 Terminal Strip Configuration

LEFT TO RIGHT	USE
Black	Low 2 (–)
Red	Low 2 (+)
Black	High (–)
White	High (+)
Black	Low 1 (–)
Red	Low 1 (+)

ARCHITECT AND ENGINEERS SPECIFICATIONS

The loudspeaker shall be a three-way active system featuring a total of four drivers. The low frequency section shall contain one 15" driver, capable of handling 600 watts of pink noise with a 6dB crest factor for 8 hours (as per EIA RS-426-A standard). The mid frequency section shall contain one 15" driver capable of handling 600 watts of pink noise with a 6dB crest factor for 8 hours (as per EIA RS-426-A standard). The high frequency section shall contain (2) 1.4" exit / 3" voice coil diameter compression drivers and shall be attached to a 100°H x 25°V constant-directivity horn. The drivers shall be capable of handling 160 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 crossover functions shall be performed using proprietary processing including Dolby/Lake Processors. The enclosure shall be constructed of 18mm, 13-ply Baltic birch and be covered with black epoxy mastic. The cabinet dimensions shall be 16.91" high (front), 6.0" high (rear), 50.93" wide and 25.64" deep. The cabinet weight shall be 161 lbs. (73.0kg). The loudspeaker system shall be the Clair Brothers CAT™ 215 System.

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

