

RCFACUSTICA

COMPACT SERIES

C3110



The C3110 is a full range extremely versatile wide-dispersion, low-profile, two-way loudspeaker system offering substantial power and efficiency for a variety of professional applications that include permanent installations, main reinforcement in small spaces, plus portable systems and supplementary fill for larger systems. Its compact size makes it ideal for low visibility side wall or under balcony mounting. - The high-frequency section is a constant directivity CMD horn deigned mathematically for Constant Matching Design in relation to the woofer system, loaded to a 1" RCF Precision Neodymium compression driver with a 1.50" diaphragm assembly for smooth, wide dispersion. The low-frequency transducer is a 10" RCF Precision woofer with a 2" voice coil.

The system includes a high-level crossover network that features markedly lower (than conventional) induction values in series with the woofer. We call this innovation LICC (Low Impedance Compensated Crossover). The benefit is delay reduction, reduced phase shift and superior transient response. Dynamic high-frequency driver protection is accomplished with a new RCF exclusive - Active $\dot{\text{Mosfet}}$ Compression Driver Protection System, (AMCDP) chosen to complement the power curve of the

The C3110 is part of RCF's Acustica Compact Series, which includes two way constant directivity enclosures and high efficiency subwoofers in easily installed enclosures.

Applications

- Permanent Installations
- Main Reinforcement in small spaces
- High-Level AV Playback
- Zone Delay and Fill Systems
- **Under Balcony Applications**

Features

- · Very high efficiency design
- One 10" high-output RCF Precision LF transducer
- One RCF Precision Neodymium 1" Compression Driver
- 90° x 70° CMD (Constant Matching Design) constant directivity horn
- Rotatable Horn System for horizontal cabinet mounting applications
- Hexagonal enclosure for array and close wall/ceiling configurations
- HF driver AMCDP (Active Mosfet Compression Driver Protection)
- LICC (Low Impedance Compensated Crossover) network
- 15 mm birch plywood construction
- 4 Suspension points (M10)
- 35mm standard internal pole mount
- Three year limited warranty

SYSTEM

59Hz-20kHz
70Hz-20kHz
90°
70°
9.4
96db. 1W @ 1m
127dB. @ 1m
8 Ω
300W
1200W
600W
dynamic
1.8 kHz

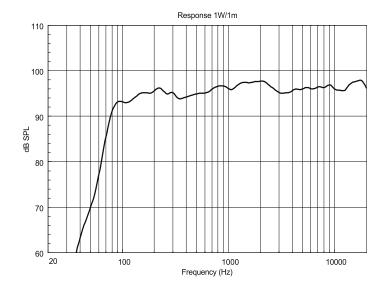
TRANSDUCERS

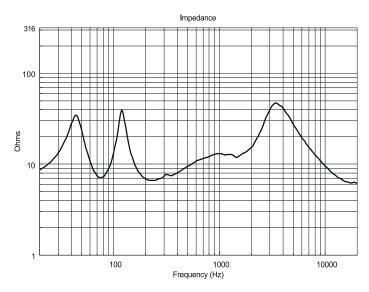
Low Frequency:	10" (254 mm) woofet with 2" (50 mm) coil
Nominal Impedance:	8 Ω
Input power Rating:	250W AES; 400W Peak
Sensitivity ¹ :	96 dB. 1W @ 1m
High Frequency:	1"(25mm) throat. 1.5" (35.5mm)
	coil diaphragm assembly
Nominal Impedance:	8 Ω
Input power Rating:	25W AES; 50W Peak
Sensitivity ¹ :	109 dB. 1W @ 1m

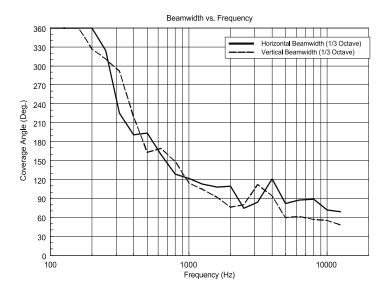
PHYSICAL

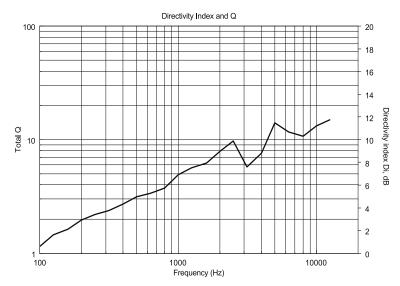
Enclosure:	Trapezoidal. 30° side angles	
	9 mm birch plywood construction	
Rigging inserts:	3 x M10, 2 x M6 inserts + pole mount	
Color:	Black. scratch resistant paint	
Grille:	Custom perforated steel grille with	
	open-cell poly fiber backing	
Input Connectors:	Speakon® NL4	
Dimensions (H x W x D):	19.68"x11.81"x11.30" 500x300x287 mm	
Weight:	28.66 lb - 13Kg	

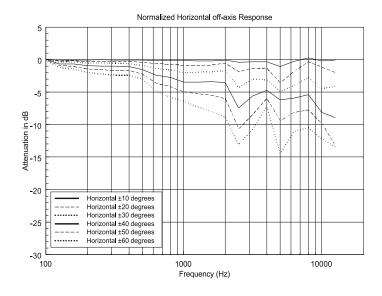
- Measured on axis in the far field with 1 watt (2.83V RMS, 8Ω) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300Hz to 3kHz. RMS using 20Hz to 20kHz, PN Spectrum, Peak for 2 hours with +6 dB crest factor. Recommended Amplifier is a power capability value thats hould be taken as a guide.

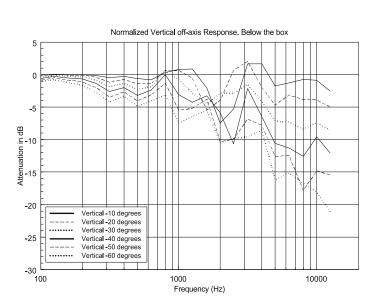




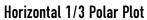


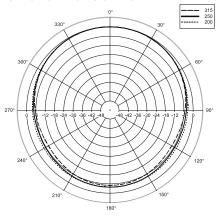


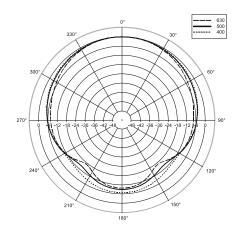


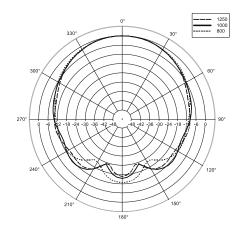


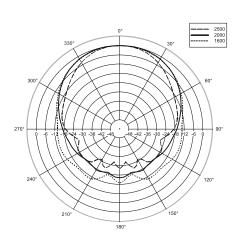


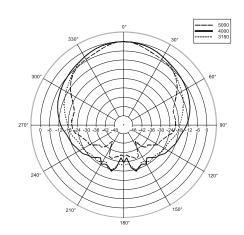


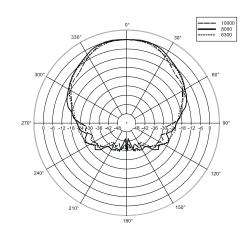




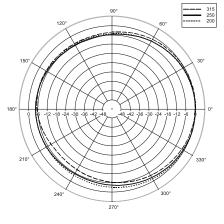


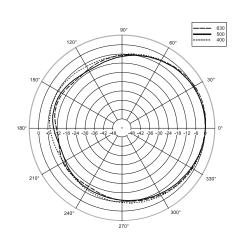


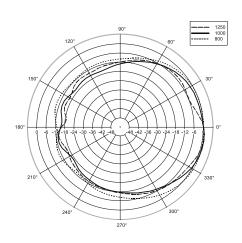


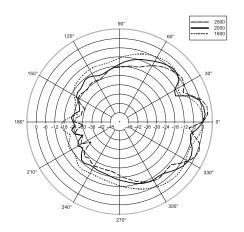


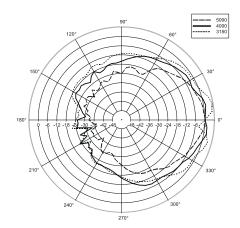
Vertical 1/3 Polar Plot

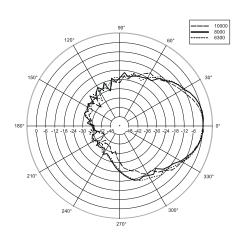












CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS") The following are "Part 2 Products" CSI-type specifications. It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" are part of an overall audio system or project specification. PART 2 PRODUCTS

2.01 Approved Manufacturer/Product

A. RCF, Via Raffaello 13, 42010 Mancasale, Reggio Emilia, Italy.

B. Model number: C3110

2.02 Design

Configuration Compact 2 way speaker LF Sub-section 10" mid-bass, 2" voice coil

HF Sub-section 1" neodymium, 1,5" aluminium voice coil

2.03 Acoustical Proprieties

Nominal dispersion angle: Horizontal: 90° - Vertical: 70°

Axial frequency range: 59Hz-20kHz
Axial sensitivity: 94db, 1W @ 1m

Power handling: Applicable power 300W RMS

Musical power 600W Peak power 1200W

Nominal impedence: 8Ω

2.04 Physical Properties

Enclosure: Trapezoidal, 30° side angles 15 mm birch plywood construction

Rigging inserts: 3 x M10 inserts (1 top, 2 side), 2 X M6 inserts (rear) + pole mount or with optional accessory AC C10 H-BR 1 M10

inserts (bottom)

Color: Black, scratch resistant paint

Grille: Custom perforated steel grille with open-cell poly fiber backing

Input Connectors: 2 X Speakon® NL4

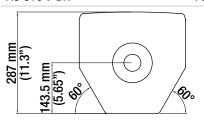
Dimensions (H x W x D): 19.68"x11.81"x11.30" 500x300x287 mm

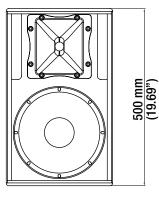
Weight: 28.66 lb - 13Kg

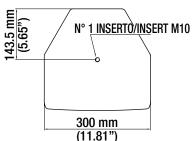
2.05 Accessories

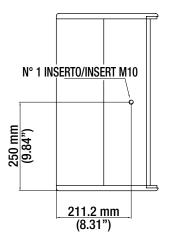
AC C10 H-BR
Pair of bracket for mounting C3110 speakers on the wall. Adjustable inclination horizontal. Colour black

AC C10 V-BR
Pair of bracket for mounting C3110 speakers on the wall. Adjustable inclination vertical. Colour black









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