

# **RCFACUSTICA**

## COMPACT SERIES

# C3108



The C3108 is a full range extremely versatile wide-dispersion, low-profi le, two-way loudspeaker system offering substantial power and efficiency for a variety of professional applications that i clude permanent installations, main reinforcement in small spaces, plus portable systems and su plementary 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-freque cy transducer is an 8" 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 Mosfet Compression Driver Protection System, (AMCDP) chosen to complement the power curve of the

The C3108 is part of RCF's Acustica Compact Series, which includes two way constant directivity enclosures and high effi ciency 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 8" high-output RCF Precision LF transducer
- One RCF Precision Neodymium 1" Compression Driver
- 90° x 70° CMD (Constant Matching Design) constant directivity horn
- Linear/HF boost switch
- Rotatable Horn System for horizontal cabinet mounting applications
- Hexagonal enclosure for array and close wall/ceiling confi gurations
- HF driver AMCDP (Active Mosfet Compression Driver Protection)
- LICC (Low Impedance Compensated Crossover) network
- 15 mm birch plywood construction
- 4 Suspension points (M10)
- OmnimountTM 75 Plate fi xing positions on rear of cabinet
- 35mm standard internal pole mount

### SYSTEM

| 60Hz-20kHz    |
|---------------|
| 100Hz-18kHz   |
| 90°           |
| 70°           |
| 9.4           |
| 94db. 1W @ 1m |
| 120dB. @ 1m   |
| 8 Ω           |
| 300W          |
| 1200W         |
| 600W          |
| dynamic       |
| 2.1 kHz       |
|               |

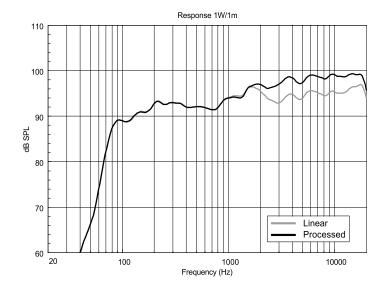
### **TRANSDUCERS**

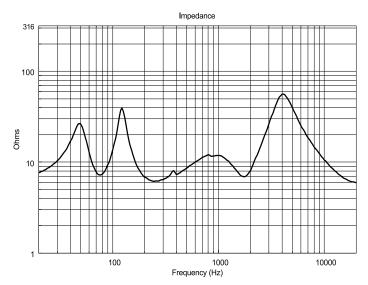
| Low Frequency:             | 8" (203 mm) woofet with 2" (50 mm) coil |
|----------------------------|---|
| Nominal Impedance:         | 8 Ω                                     |
| Input power Rating:        | 200W AES; 400W Peak                     |
| Sensitivity <sup>1</sup> : | 94 dB. 1W @ 1m                          |
| High Frequency:            | 1"(25mm) throat. 1.5" (35.5mm)          |
|                            | coil diaphragm assembly                 |
| Nominal Impedance:         | 8 Ω                                     |
| Input power Rating:        | 25W AES ; 50W Peak                      |
| Sensitivity <sup>1</sup> : | 109 dB. 1W @ 1m                         |

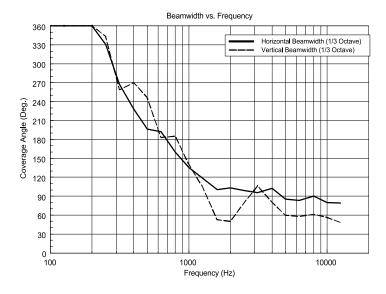
## **PHYSICAL**

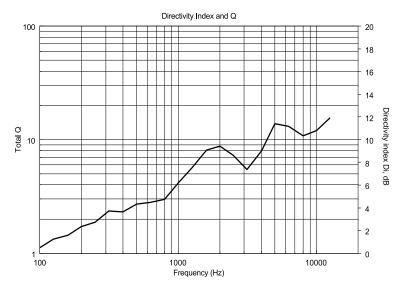
| Enclosure:              | Trapezoidal. 30° side angles        |
|-------------------------|-------------------------------------|
|                         | 9 mm birch plywood construction     |
| Rigging inserts:        | 3 x M10, 4 X M5 2 x M6 inserts      |
|                         | + pole mount                        |
| 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): | 16.81"x9.52"x8.98" 427x242x228 mm   |
| Weight:                 | 22 lb - 10Kg                        |
|                         |                                     |

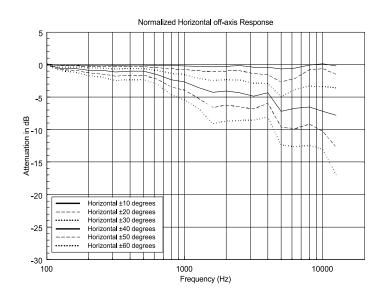
- Measured on axis in the far field with 1 watt (2.83V RMs,  $8\Omega$ ) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300Hz to 3kHz. RMS using 20Hz to 20kHz, PN Spectrum, Peak for 2 hours with +6 dB crest factor. Recommended Amplifier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

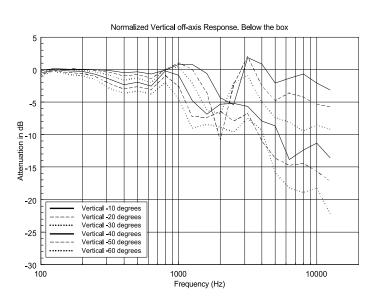






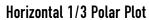


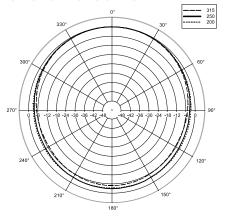


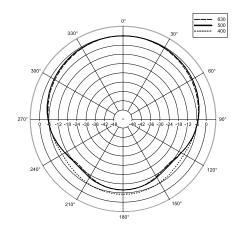


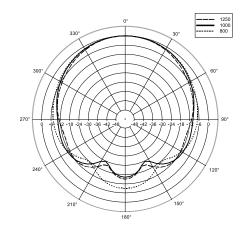
# the rules of sound

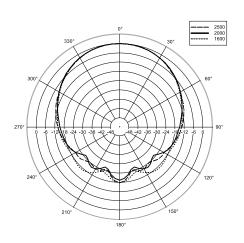


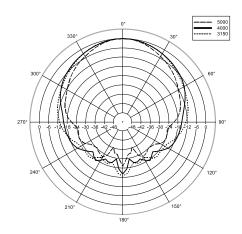


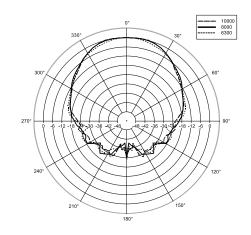




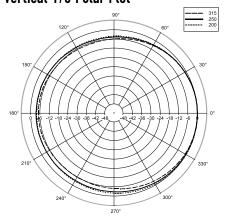


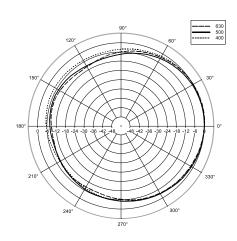


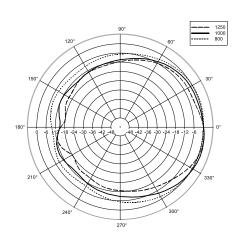


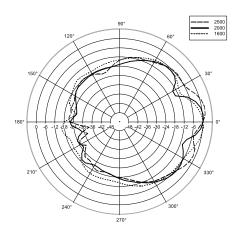


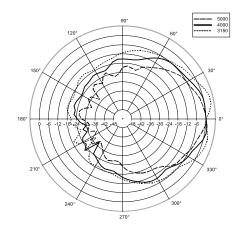
# Vertical 1/3 Polar Plot

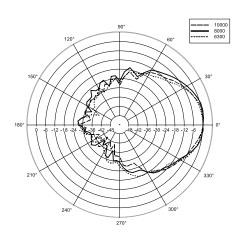












CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS "A&E SPECIFICATIONS") The following are "Part 2 Products" CSI-type specifications. It is assumed that "Part 1 General – Administrative and Procedures" and "Part 3 Execution – Installation and Maintenance" are part of 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 8" 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: 60Hz-20kHz Axial sensitivity: 94db, 1W @ 1m

Power handling: Applicable power 300W RMS

Musical power 600W Peak power 1200W

Nominal impedence:  $8 \Omega$ 

### 2.04 Physical Properties

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

Rigging inserts: 3 x M10 inserts (1 top, 2 side), 4 X M5 insert (rear for bracket omni mount), 2 X M6 inserts (rear)

+ pole mount or with optional accessory AC C08 H-BR 1 M10 inserts (bottom)

Color: Black, scratch resistant paint

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

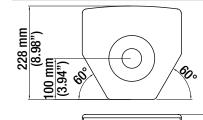
Input Connectors: 2 X Speakon® NL4

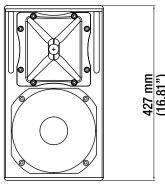
Dimensions (H x W x D): 16.81"x9.52"x8.98" 427x242x228 mm

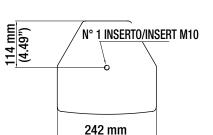
Weight: 22 lb - 10Kg

### 2.05 Accessories

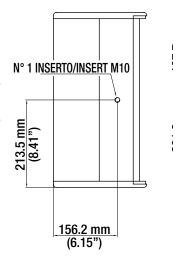
AC C10 H-BR
Pair of bracket for mounting C3108 speakers on the wall. Adjustable inclination horizontal. Colour black
AC C10 V-BR
Pair of bracket for mounting C3108 speakers on the wall. Adjustable inclination vertical. Colour black







(9.53")



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