

RCFACUSTICA

COMPACT SERIES

C3108



The C3108 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 designed 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 an 8" RCF Precision woofer with a 2" voice coil.

The system includes a high-level crossover network that features markedly lower (than conventional) inductance 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 driver.

The C3108 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 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 configurations
- HF driver AMCDP (Active Mosfet Compression Driver Protection)
- LICC (Low Impedance Compensated Crossover) network
- 15 mm birch plywood construction
- 4 Suspension points (M10)
- Omnimount™ 75 Plate fixing positions on rear of cabinet
- 35mm standard internal pole mount

SYSTEM

Freq. Range (-10 dB):	60Hz-20kHz
Freq. Range (-3 dB):	100Hz-18kHz
Horiz. coverage angle (-6 dB):	90°
Vertical coverage angle (-6 dB):	70°
Directivity factor, Q:	9.4
System sensitivity ¹ :	94dB, 1W @ 1m
Rated maximum SPL:	120dB, @ 1m
System Nominal Impedance:	8 Ω
System Input Power Rating RMS ² :	300W
System Input Power Rating PEAK ² :	1200W
Recommended Amplifier ³ :	600W
HF Protection:	dynamic
Crossover:	2,1 kHz

TRANSDUCERS

Low Frequency:	8" (203 mm) woofer with 2" (50 mm) coil
Nominal Impedance:	8 Ω
Input power Rating:	200W AES ; 400W Peak
Sensitivity ¹ :	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 ¹ :	109 dB, 1W @ 1m

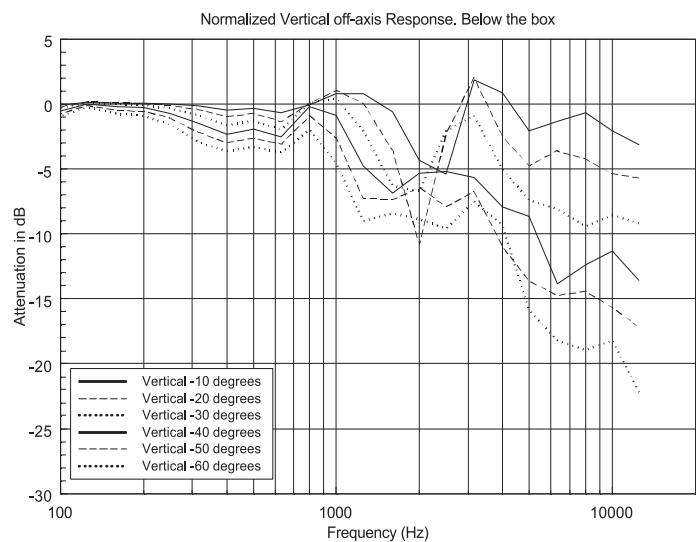
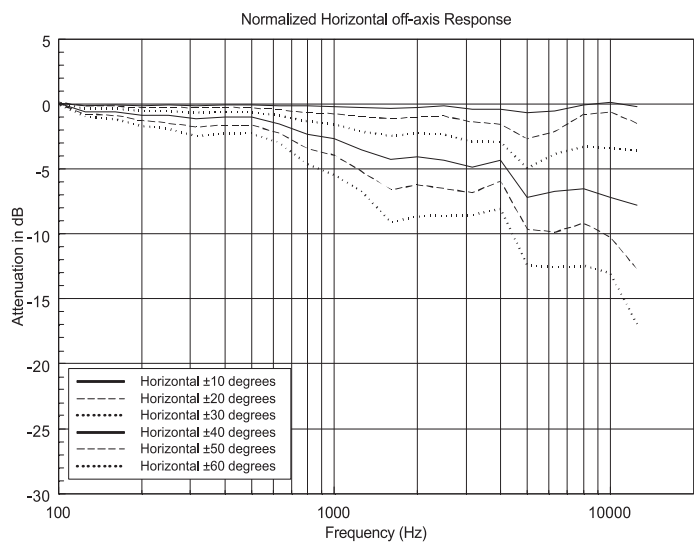
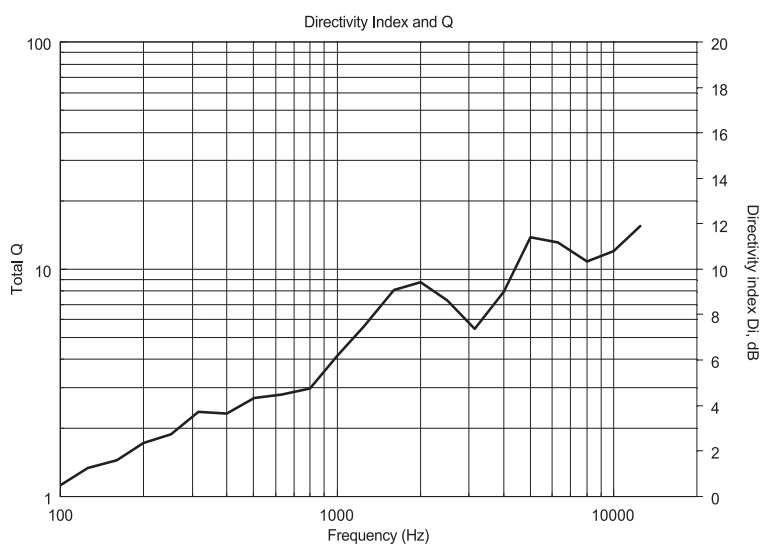
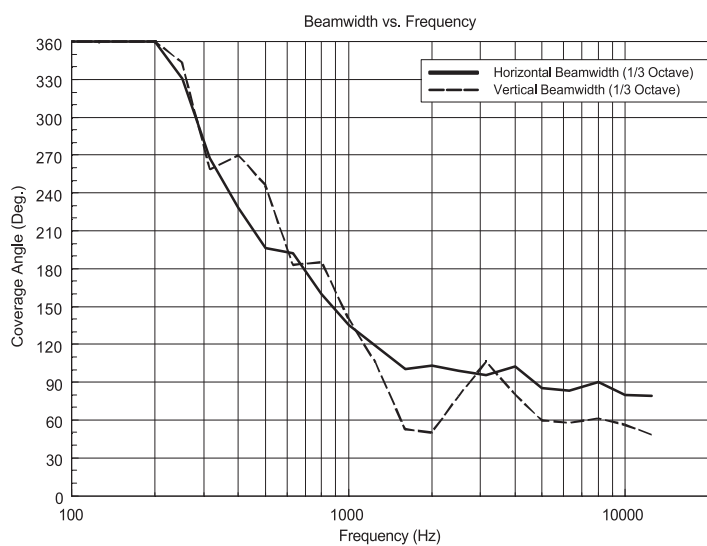
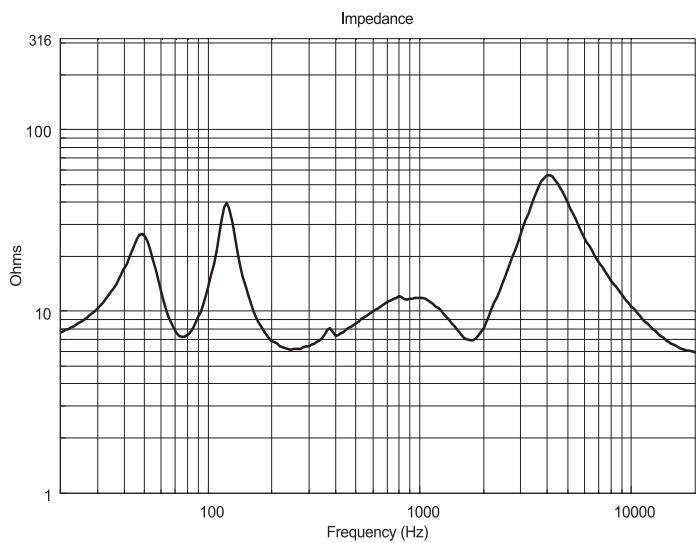
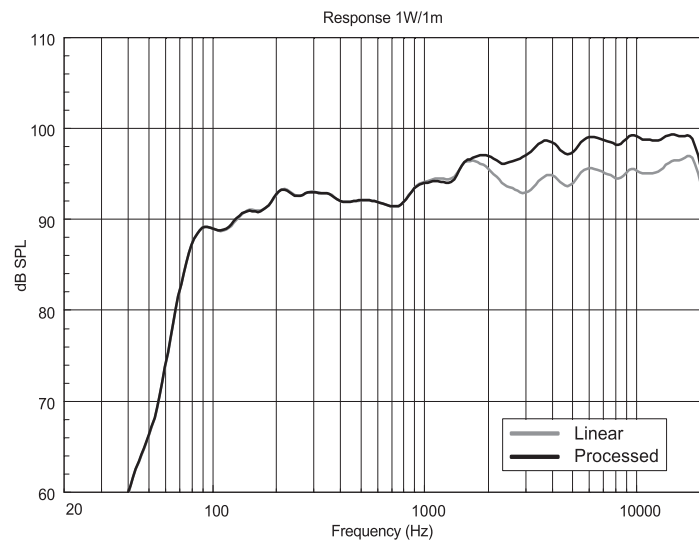
PHYSICAL

Enclosure:	Trapezoidal, 15° side angles 15 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

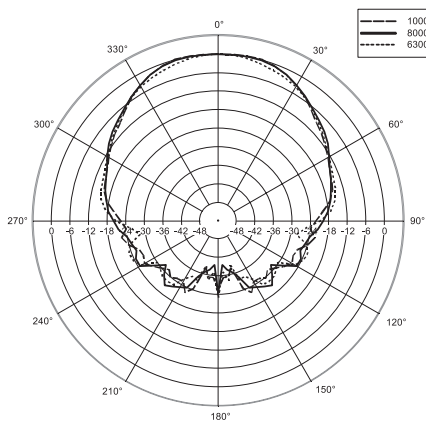
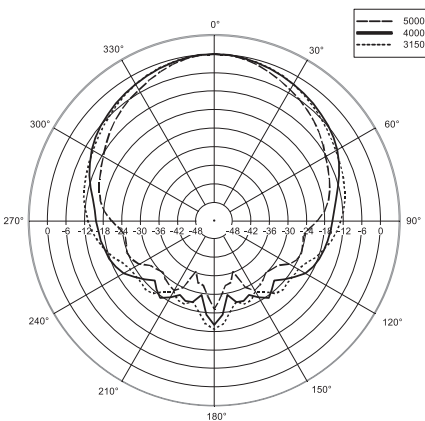
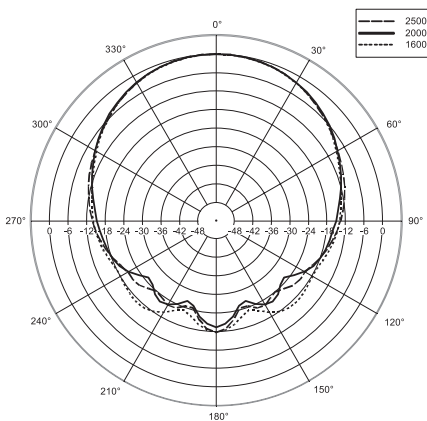
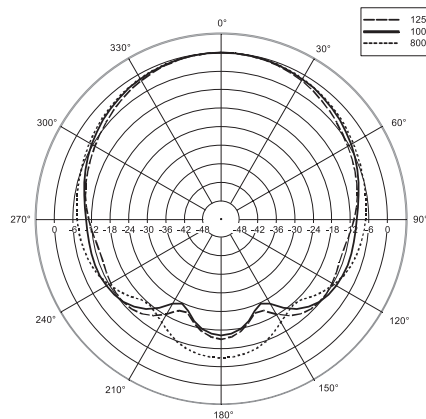
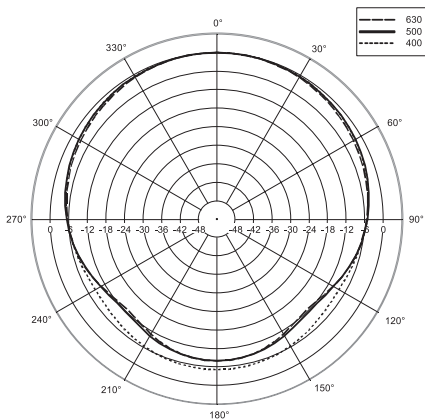
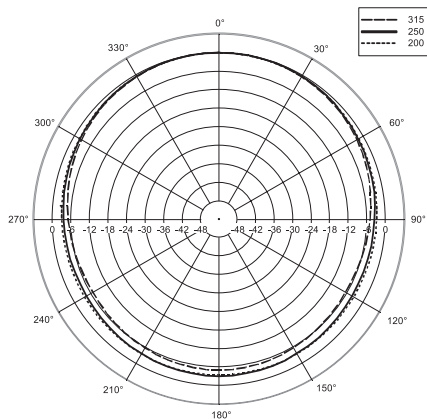
¹ Measured on axis in the far field with 1 watt (2.83V RMS, 8Ω) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300Hz to 3kHz.

² RMS using 20Hz to 20kHz, PN Spectrum, Peak for 2 hours with +6 dB crest factor.

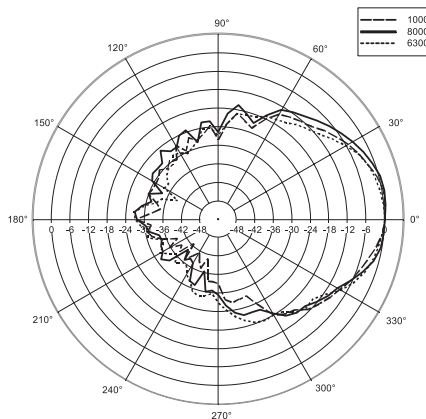
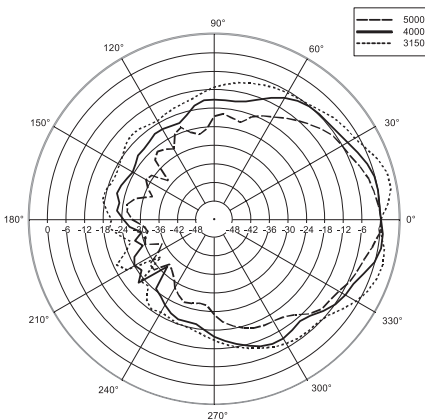
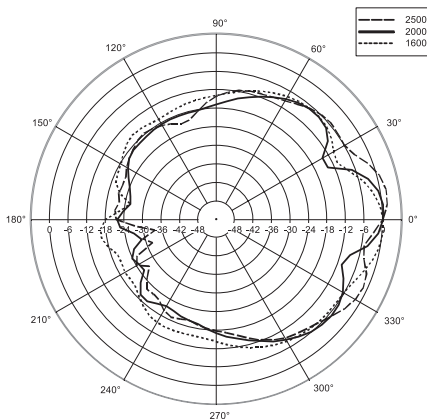
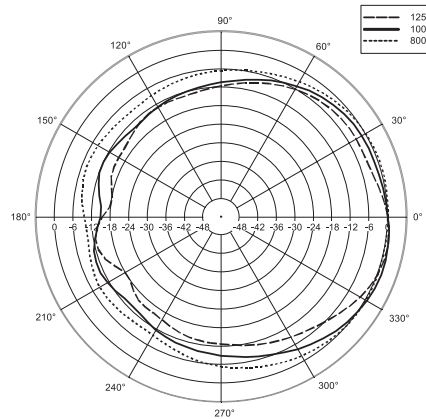
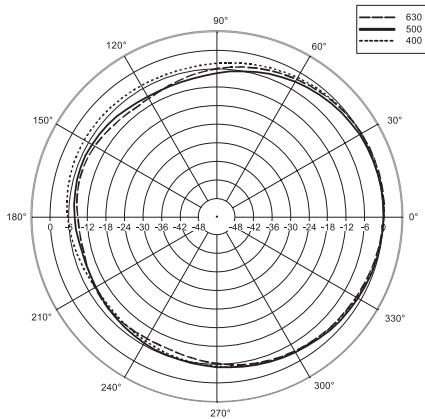
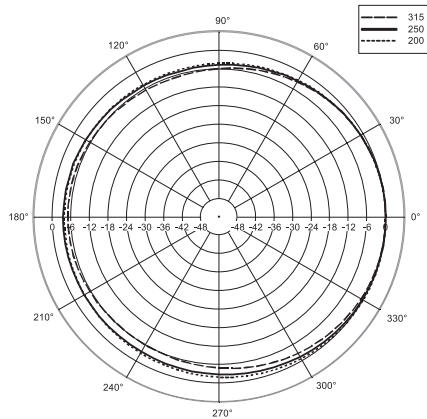
³ Recommended Amplifier is a power capability value that should be taken as a guide.



Horizontal 1/3 Polar Plot



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: C3108

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

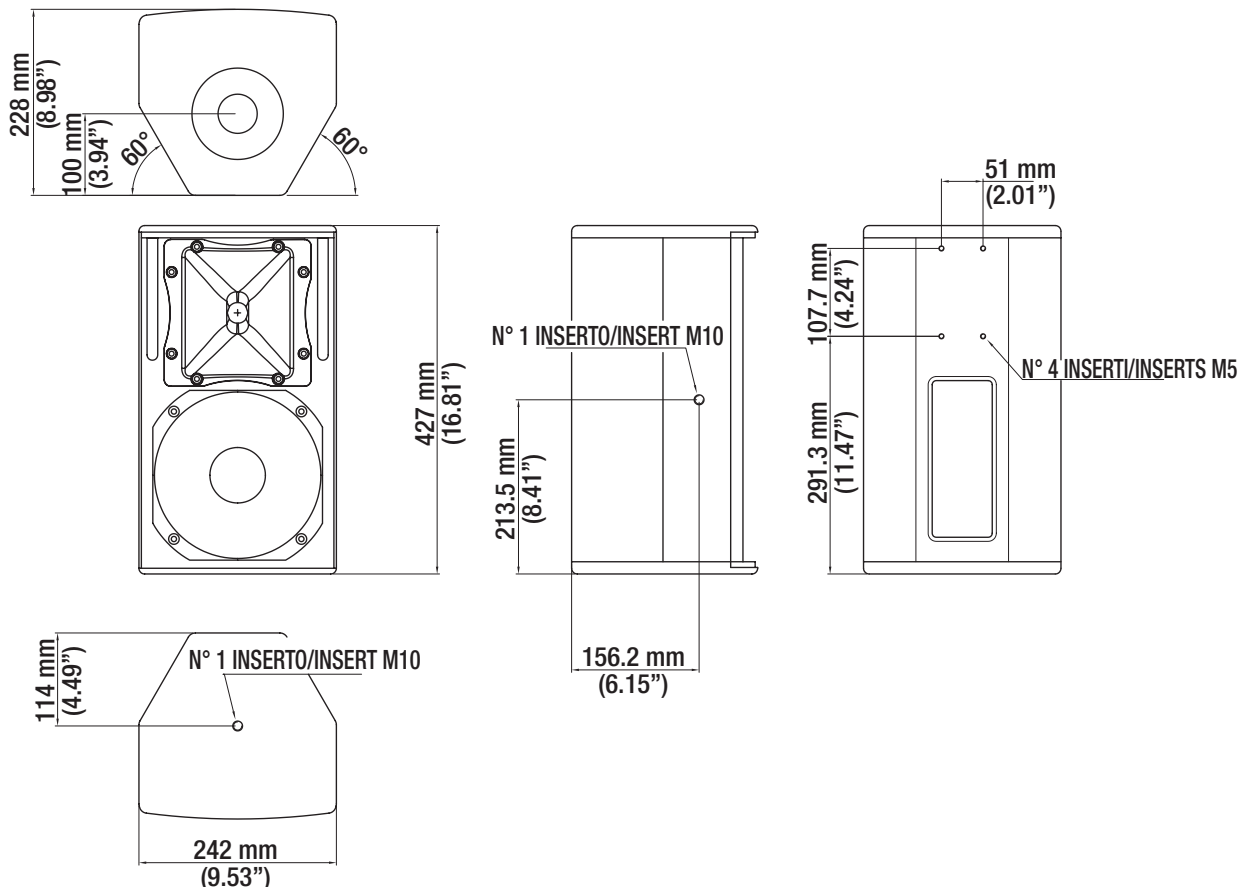
Nominal dispersion angle:	Horizontal: 90° - Vertical: 70°
Axial frequency range:	60Hz-20kHz
Axial sensitivity:	94db, 1W @ 1m
Power handling:	Applicable power 300W RMS Musical power 600W Peak power 1200W
Nominal impedance:	8 Ω

2.04 Physical Properties

Enclosure:	Trapezoidal, 15° side angles 15 mm birch plywood construction
Rigging inserts:	3 x M10 inserts (1 top, 2 side), 4 X M5 inserts (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 C08 H-BR	Pair of bracket for mounting C3108 speakers on the wall. Adjustable inclination horizontal. Colour black
AC C08 V-BR	Pair of bracket for mounting C3108 speakers on the wall. Adjustable inclination vertical. Colour black



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