

RCFACUSTICA

H SERIES

H1315



The RCFACUSTICA H1315 is three-way full range loudspeaker system that incorporate a 15" LF transducer, a 10" cone MF transducer and a 1.4" exit titanium compression driver. The system is very compact and provides very high output and accurate voice and sound reproduction.

The system is equipped with the latest generation of RCF precision transducers, all of them with powerful neodymium motors. The LF driver, equipped with a 4" voice coil and a state of the art neodymium motor, is mounted in a vented enclosure with optimised front loading. The MF cone driver is a unique RCF sealed basket design and is loaded into a exponential, baltic birch 60° x 40° midrange horn. The 3" coil MF driver is acoustically equalized thanks to a unique RCF complex phase plug design. The HF titanium compression driver is loaded on a constant directivity horn with a coverage of 60° x 40°. The compression driver horn is rotatable. The internal passive filter provides crossover and equalization between the midrange and the compression driver. The Crossover network offers Compression Driver Protection thanks to a unique design Active MOSFET Circuit. The system is driven in bi-amped mode, is able of producing a Max SPL of 136 dB and handles 900 Watts AES (LF) + 400 Watt AES (MF/HF). The loudspeaker enclosure shape is multi-trapezoidal and offers a double coupling angle each side. The cabinet is constructed of multi-ply baltic birch plywood and finished in a very resistant, textured, polyurethane black paint. The cabinet includes 2 recessed handles for transportation and positioning and a total of six double M10 fixing point for flown applications and extensive internal metal bracing. The front steel grille is epoxy powder coated.

Applications

- Permanent Installations
- Sound Reinforcement in medium to large spaces
- AV Presentations
- Flown Clusters
- Club Systems
- Main PA in small to mid-size systems

Features

- Compact Arrayable 3-way System
- Fully Horn-loaded LF/MF/HF (60° x 40° directivity)
- Fully equipped with Neodymium Transducers
- 15" LF, 4" voice coil / 10" MF, 3" voice coil / 1.4" HF, 2.5" voice coil
- Bi-amp system (passive crossover MF/HF included)
- Active MOSFET Compression Driver Protection
- Rotatable HF Horn
- Recessed handles
- Dedicated to permanent installation
- Digital signal processor required to achieve optimised performance
- Recommended processor RCF DX4008

SYSTEM

Freq. Range (-10 dB):	50Hz-20kHz
Freq. Range (-3 dB):	56Hz-20kHz
Horiz. coverage angle (-6 dB):	60°
Vertical coverage angle (-6 dB):	40°
Directivity factor; Q:	12
System sensitivity ¹ :	100dB LF, 108 dB MF/HF
Rated maximum SPL:	LF 136 dB - MF/HF 140 dB
System Nominal Impedance:	8 Ω
System Input Power Rating RMS ² :	LF 800W • MF HF 400W
System Input Power Rating PEAK ² :	LF 2400W • MF HF 1600W
Recommended Amplifier ³ :	LF 1600W • MF HF 800W
HF Protection:	Active Mosfet Compression Driver Protection
Crossover:	Passive MF/HF 1,8 kHz, active 450Hz

TRANSDUCERS

Low Frequency:	15" (300 mm) woofet with 4" (100 mm) coil
Nominal Impedance:	8 Ω
Input power Rating:	900 W
Sensitivity ¹ :	100 dB
Mid Frequency:	10" (200 mm) throat, 3" (75 mm) coil
Nominal Impedance:	8 Ω
Input power Rating:	300 W
Sensitivity ¹ :	109 dB
High Frequency:	1.4" (36 mm) neodymium, 2.5" (64 mm) coil
Nominal Impedance:	8 Ω
Input power Rating:	110 W
Sensitivity ¹ :	110 dB

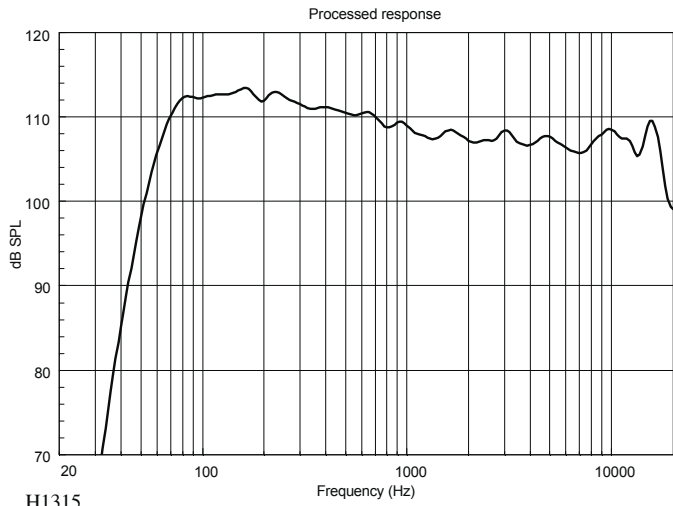
PHYSICAL

Enclosure:	Trapezoidal, 15° - 30° side angles 19 mm birch plywood construction
Rigging inserts:	6 X double M10 Mounting Points, 2X Recessed Handles
Color:	Black, scratch resistant paint
Grille:	Custom perforated steel grille with open-cell poly fiber backing
Input Connectors:	2 X Neutrik Speakon NL4
Dimensions (H x W x D):	35.03"x20.47"x24.88" 890x520x632 mm
Weight:	99.20 lb - 45Kg

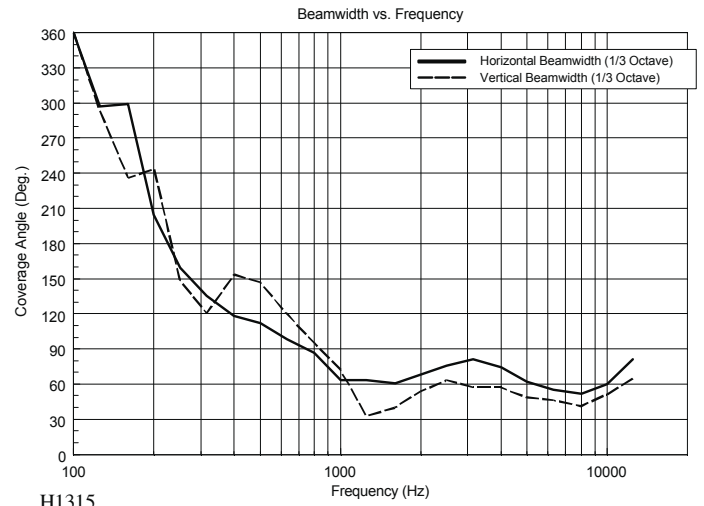
¹ Measured on axis in the far field with 1 watt (2.83V RMS, 8Ω) input and referenced to 1 meter distance using the inverse square law. Listed sound pressure represents an average from 300Hz to 3kHz.

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

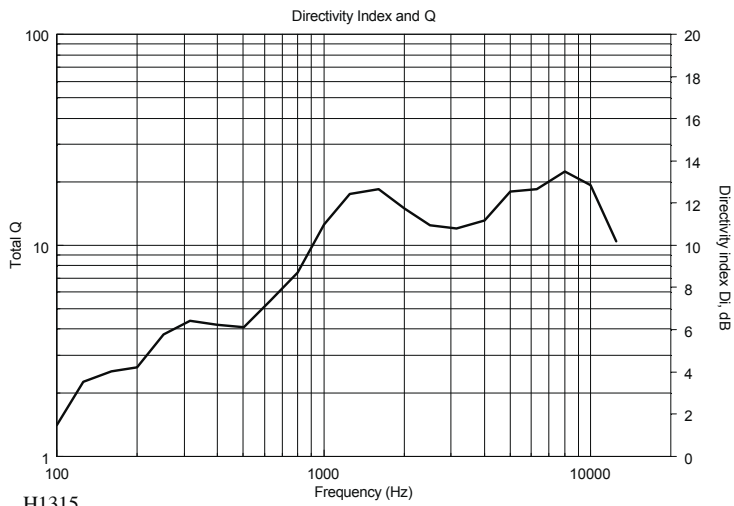
³ Recommended Amplifier is a power capability value that should be taken as a guide.



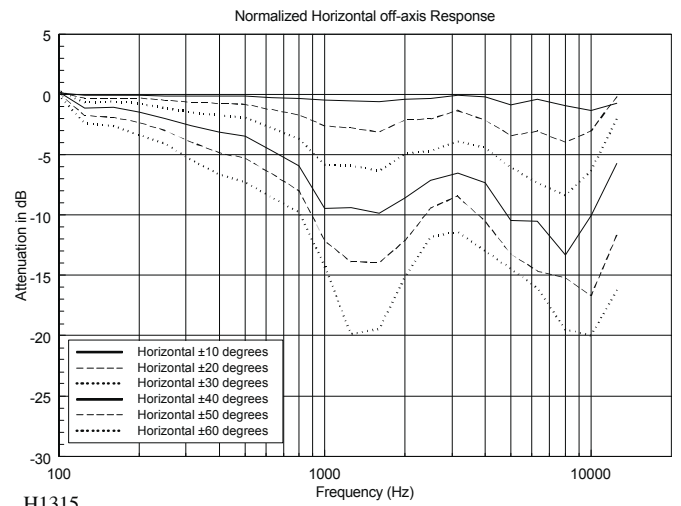
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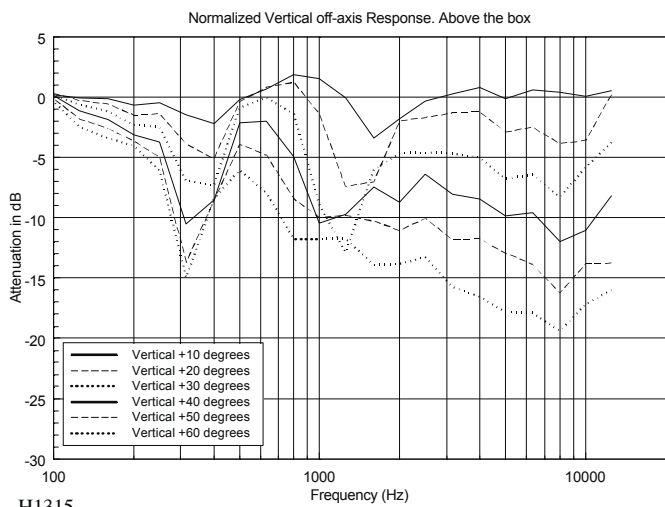
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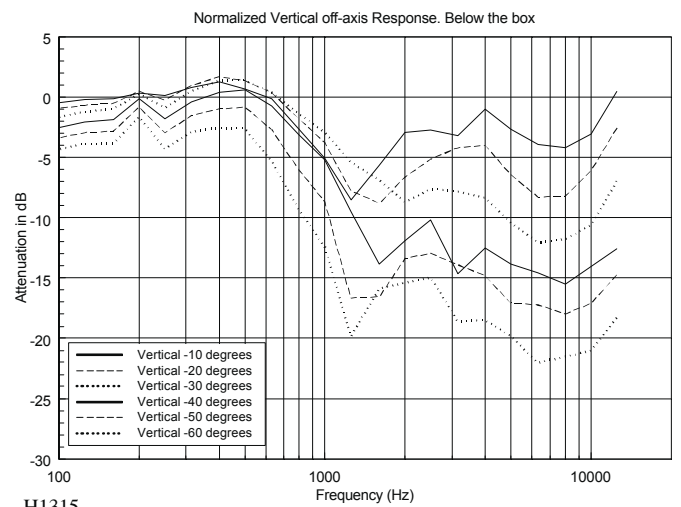
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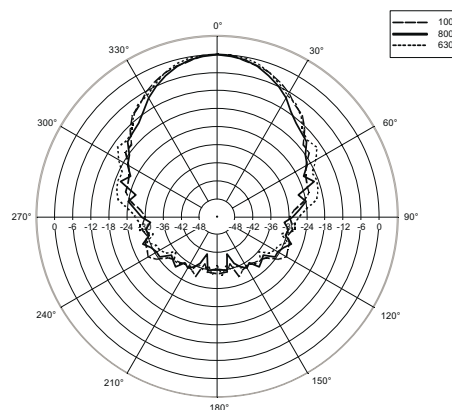
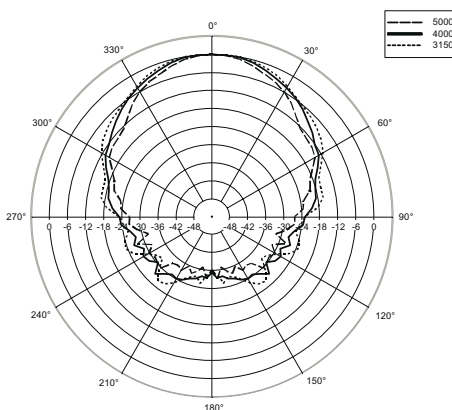
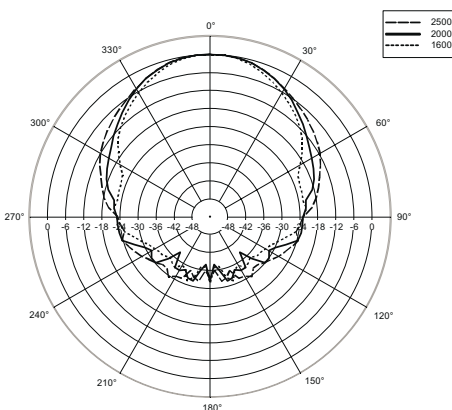
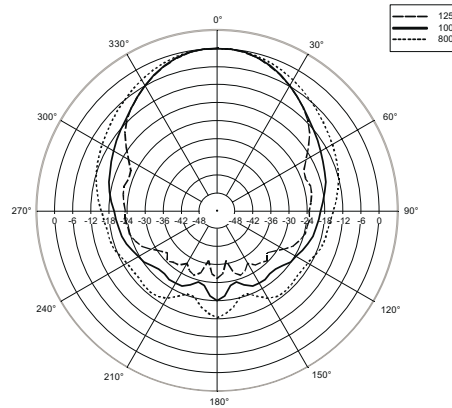
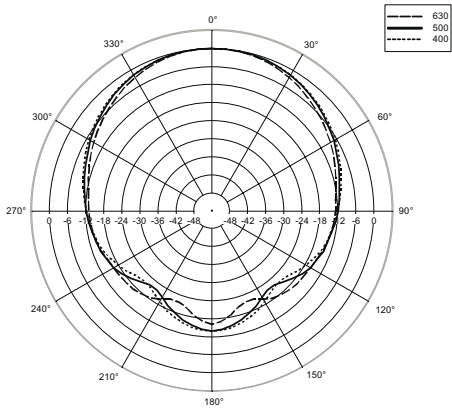
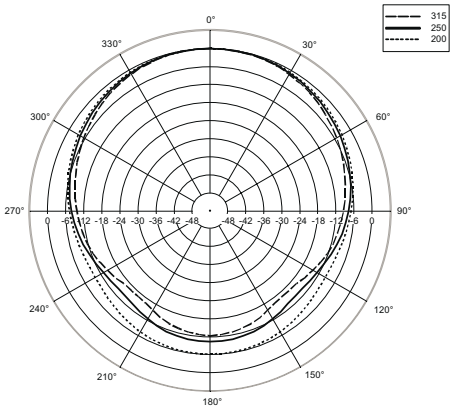


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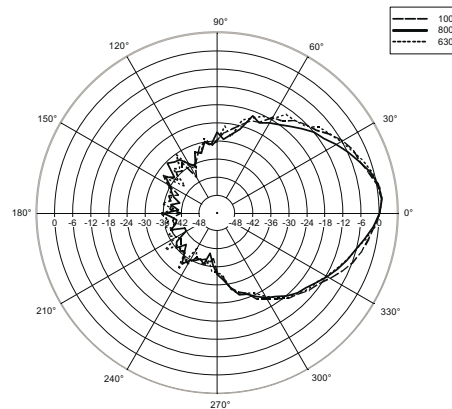
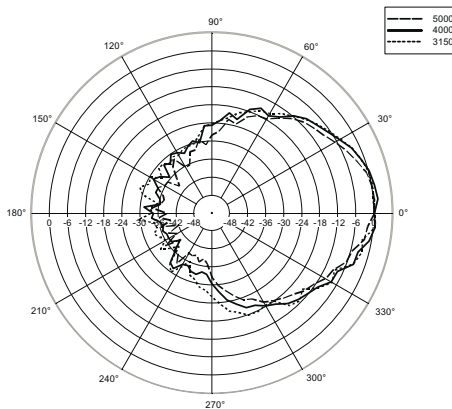
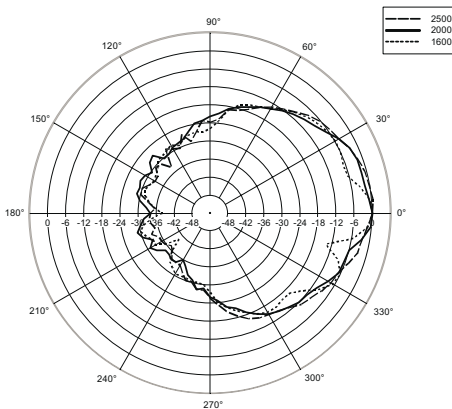
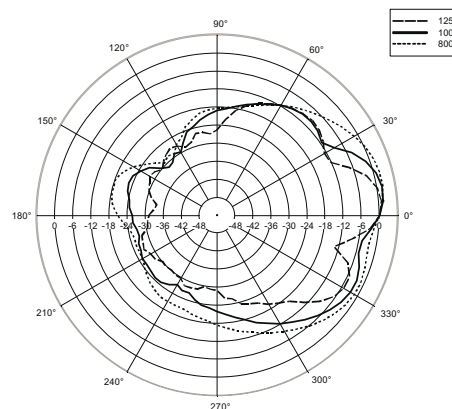
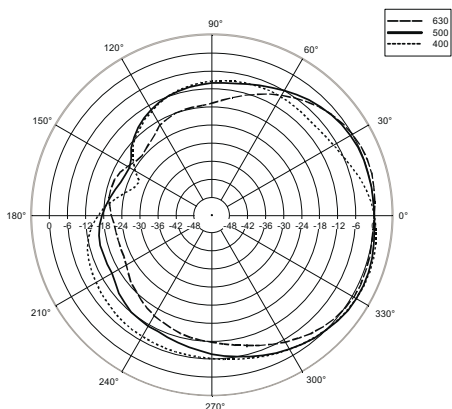
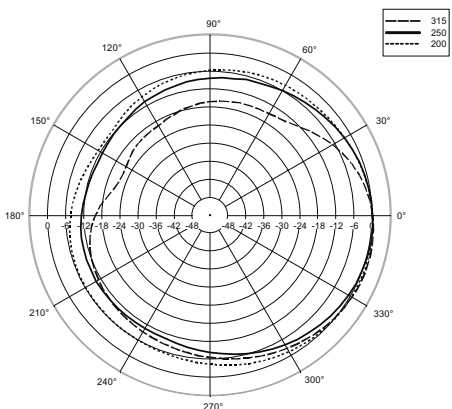


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Horizontal 1/3 Polar Plot



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: H1315

2.02 Design

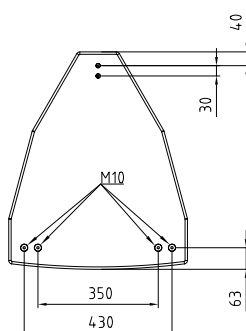
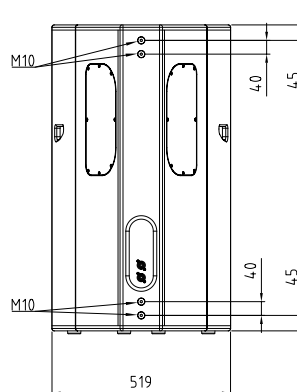
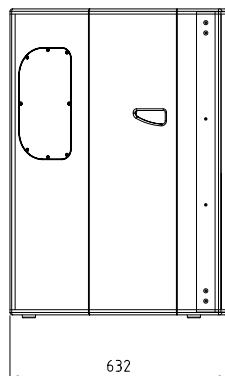
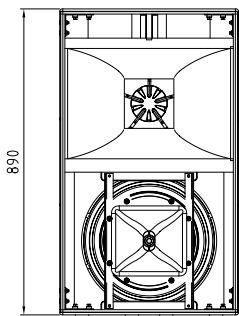
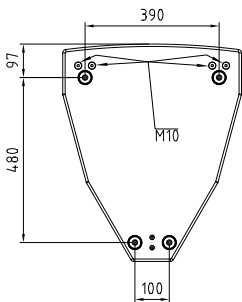
Configuration	bi-amp 3 way speaker
LF Sub-section	15" mid-bass, 4" voice coil
MF Sub-section	10" neodymium, 3" sealed basket
HF Sub-section	1.4" neodymium, 2.5" titanium dome

2.03 Acoustical Properties

Nominal dispersion angle:	Horizontal: 60° - Vertical: 60°
Axial frequency range:	50Hz-20kHz
Axial sensitivity:	100 dB
Power handling:	LF 800 W - MF/HF 400 W
Nominal impedance:	8 Ω

2.04 Physical Properties

Enclosure:	Trapezoidal 15° - 30° side angles, 19 mm birch plywood construction
Rigging inserts:	6 X double M10 Mounting Points, 2x Recessed Handles
Color:	Black, scratch resistant paint
Grille:	Custom perforated steel grille with open-cell poly fiber backing
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