

ARTSERIES



ACTIVE SPEAKER

ART 315A MKIII

RCF ART 315-A is an active, wide dispersion 2 way sound reinforcement speaker. It integrates a digital high power 400 Watt amplifier, a multiway DSP section and premium RCF low distortion, high power transducers. The result is compact, high power accurate systems, unique in there class for clarity and low distortion.

The total amplifier power is 400 watt RMS: a 300 watt digital amplifier design is used to power the low frequencies, the compression driver is powered from 100 watt of digital clear power.

The Dsp takes care of low noise crossover, equalisations, soft-limiters, rms limiters, large signals compression and protection functions.

The input section presents a XLR input connector that is switchable from microphone to line levels. A master volume control and a useful XLR loop through link guarantee the best versatility.

The new 10" woofer is the result of the latest refinement in year of RCF experience in compact 2 way speakers. Features a 2" voice coil, very high efficiency and controlled bass reproduction.

The compression driver uses a new 1.5" Mylar dome design and optimised geometry radial phase plug. This innovative design is powered from a high flux ferrite magnet offering a very open and natural midrange sound with extreme precision in high frequency reproduction.

All the system is housed in a strong, very lightweight, polypropylene composite enclosure. The woofer is protected from a strong, powder coated, metal grille. The cabinet features 2 M10 threaded fly points, a 35 mm stand adaptor plus an ergonomic top handle for easy transportation.

Applications

ART 315-A is the perfect speaker for live sound situations where you need extra punch in bass reproduction and extremely accurate high frequency response. Thanks to the versatility in both monitoring and playback installation situations representing the ideal multipurpose solution.

Features

- 400 watt Monolithic bi-amplification, 300 watt low frequency and 50 watt high frequency power
- 129 dB max SPL
- Wide dispersion, 90 x 60 low distortion, constant directivity horn
- 15" high power woofer, 2.5" voice coil
- 1" , mylar dome, high frequency driver
- Electronic equalization, phase alignment, limiter and protection
- Jack XLR input, XLR signal output
- 2 side handles and 1 comfortable top handle for easy transportation and positioning
- Four M10 fly points and built in pole mount adaptor

ACOUSTICAL SPECIFICATIONS

| | |
|---------------------|-------------|
| Frequency response: | 45 - 20 KHz |
| Max SPL: | 129 dB |
| Coverage angle: | 90° x 60° |
| Compression driver: | 1" |
| Woofer: | 15" |

INPUT SECTION

| | |
|---------------------------|-----------------|
| Input signal (Impedance): | bal/unbal |
| Input connector: | jack/xlr |
| Output signal connector: | xlr |
| Input sensitivity: | -2 dBu / +4 dBu |

PROCESSOR SECTION

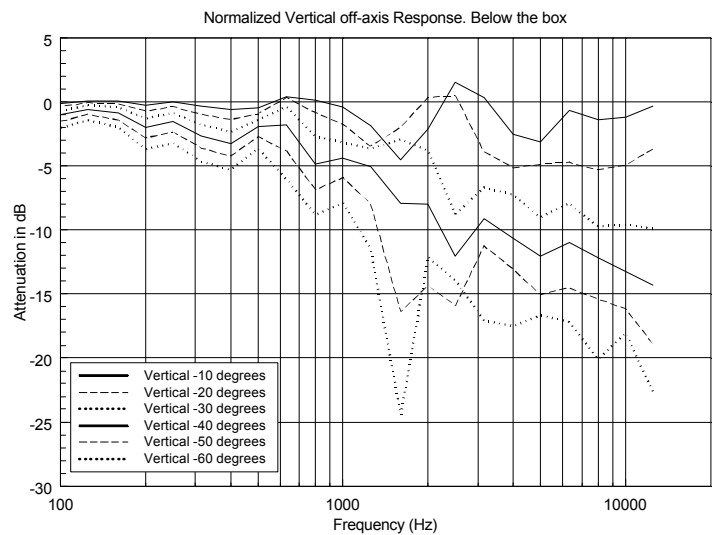
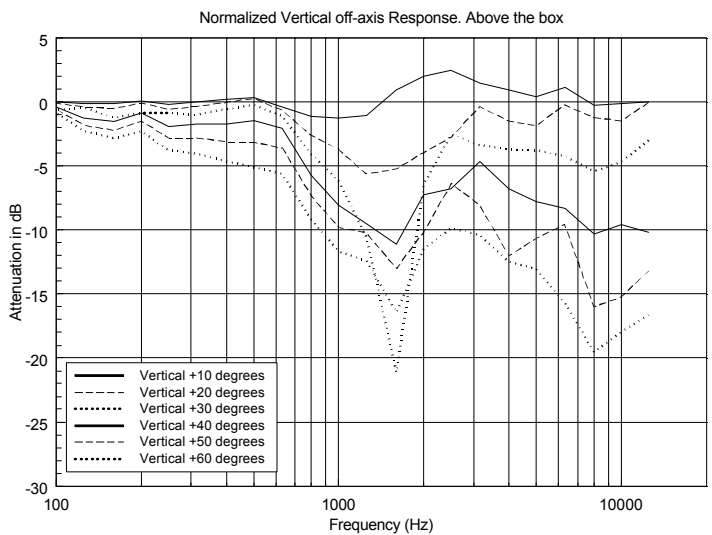
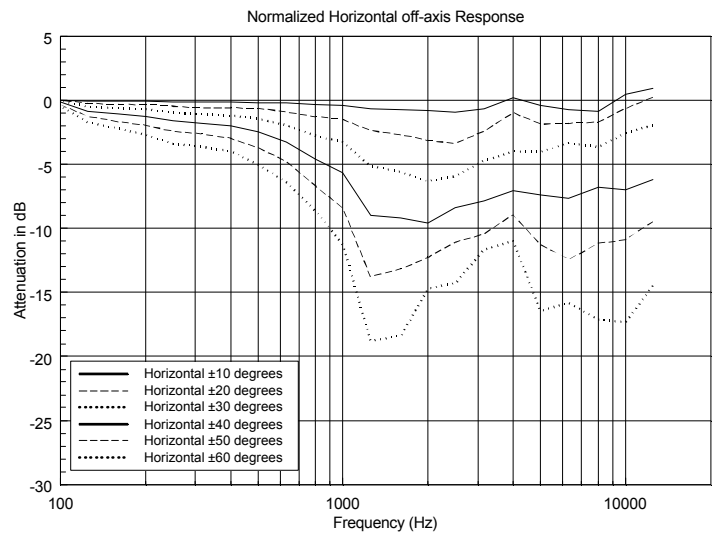
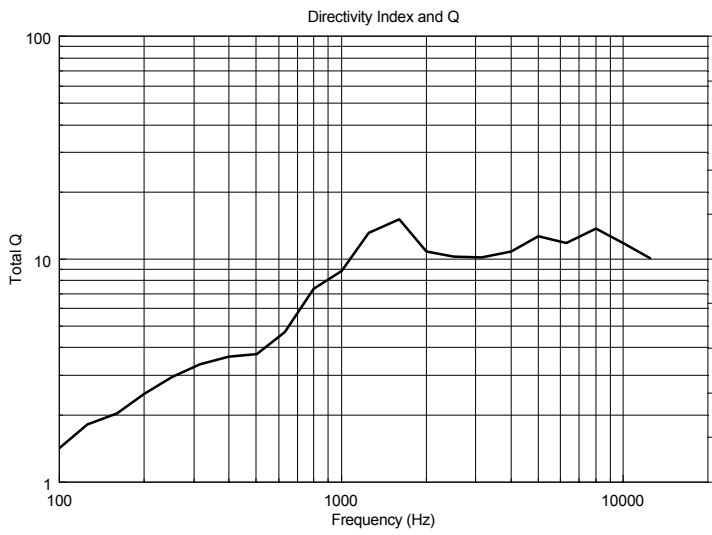
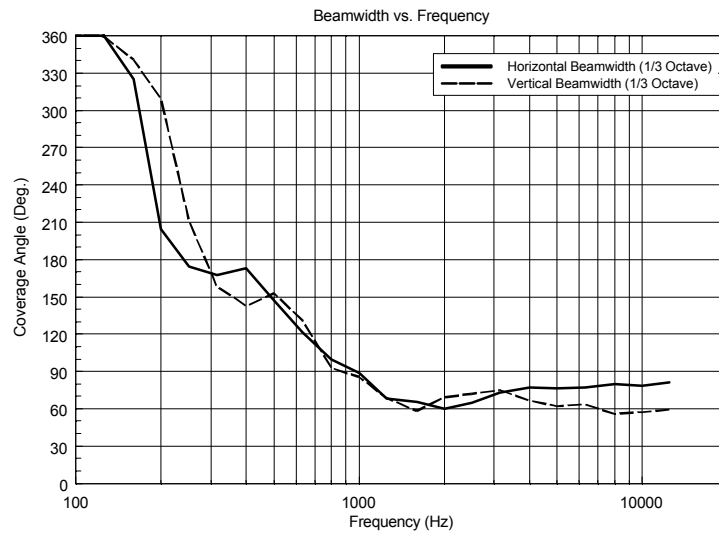
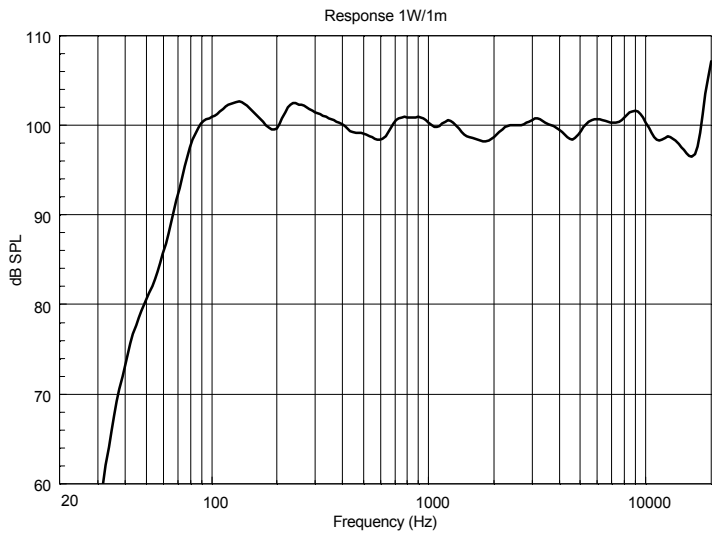
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|------------------------|----------------------------|
| Crossover frequencies: | 1650 Hz |
| Protections: | Thermal, RMS |
| Limiter: | Fast limiter |
| Controls: | Volume, EQ Shape, Mic/Line |

AMPLIFIER

| | |
|-------------------|------------|
| Nominal power: | 400 Watt |
| High frequencies: | 100 Watt |
| Low frequencies: | 300 Watt |
| Cooling: | Convection |

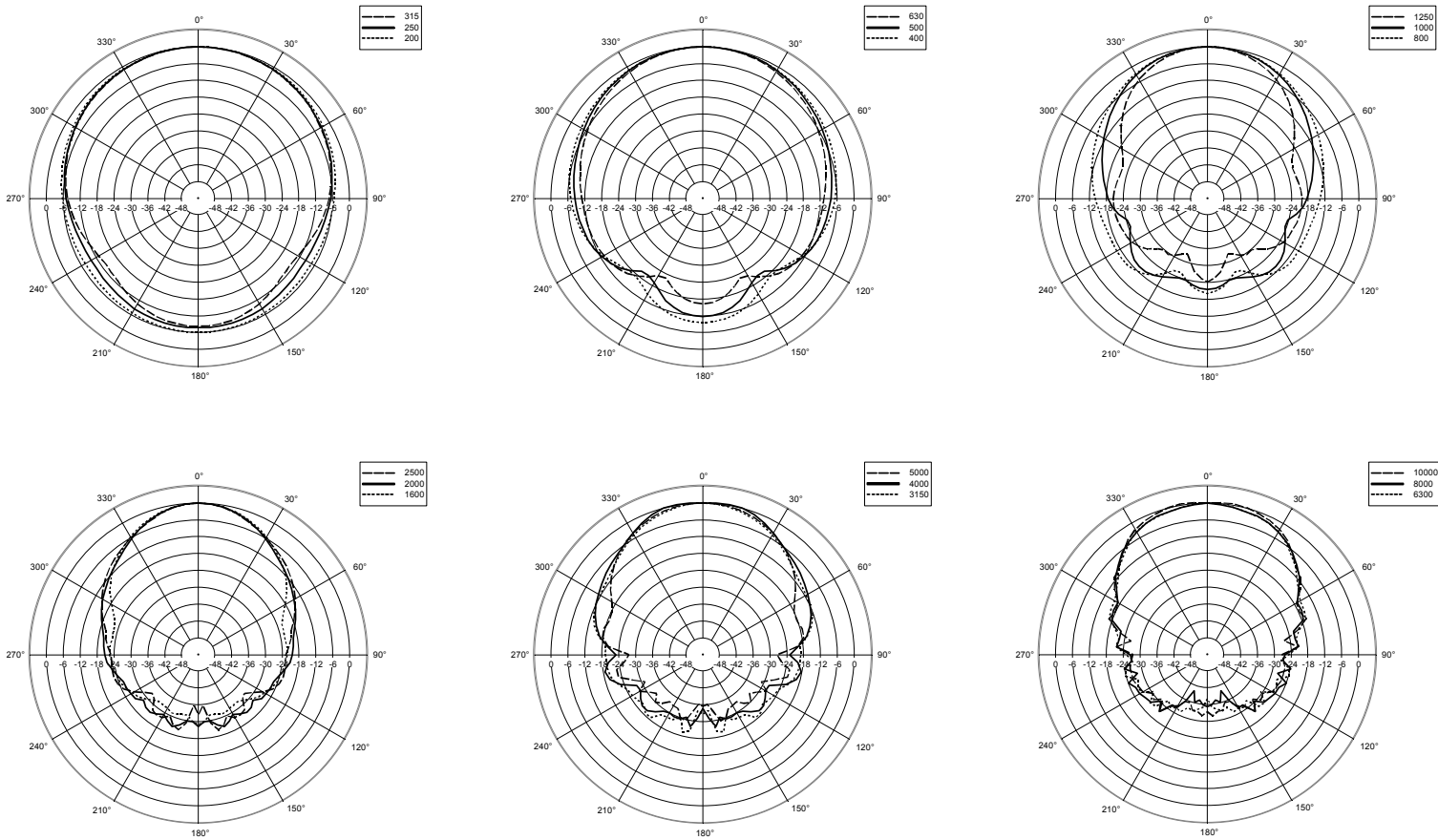
PHYSICAL

| | |
|---------------------|---|
| Cabinet: | Composite PP |
| Dimensions (HxWxD): | 26.77" x 15.94" x 13.58" (680x405x345 mm) |
| Weight: | 41.8 lbs. (19 kg) |
| Hardware: | 4 M10 flying points |
| Handles: | 2 side, 1 top |
| Pole Mount / Cap: | yes |
| Colour: | Black |

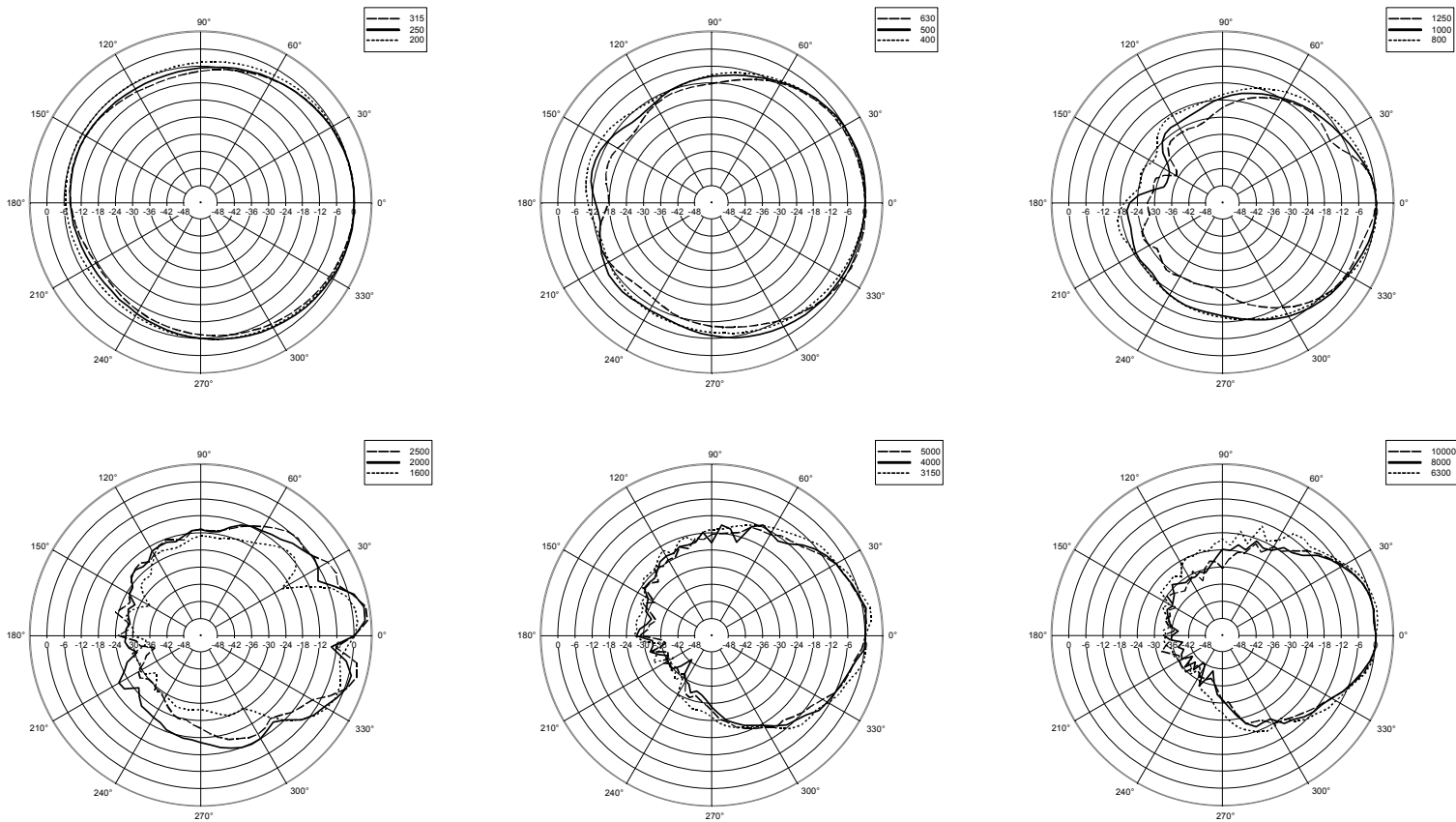




Horizontal 1/3 Polar Plot



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: ART 315A

2.02 Design

| | |
|----------------|---|
| Configuration | Compact 2 way speaker |
| LF Sub-section | 15" high power woofer, 2.5" edge wound aluminium coil |
| HF Sub-section | 1" |

2.03 Acoustical Proprieties

| | |
|---------------------------|---------------------------------|
| Nominal dispersion angle: | Horizontal: 90° - Vertical: 60° |
| Axial frequency range: | 45Hz-20kHz |

2.04 Physical Properties

| | |
|-------------------------|--|
| Cabinet: | Composite PP |
| Rigging inserts: | 4 M10 fly points and built in pole mount adaptor |
| Color: | Black |
| Grille: | Custom perforated steel grille with open-cell poly fiber backing |
| Input Connectors: | jack/xlr |
| Dimensions (H x W x D): | 26.77" x 15.94" x 13.58" (680x405x345 mm) |
| Weight: | 41.8 lbs. (19 kg) |

2.05 Accessories

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|----------|--|
| AC S260 | Steel speaker floor stand with folding base end telescopic rod, tube Ø 35 mm |
| AC S140 | Alluminium speaker floor stand with folding base end telescopic rod, tube Ø 35 mm |
| ART V-BR | Bracket for mounting one ART speaker on the wall - vertical. Adjustable inclination. Colour black. |
| ART H-BR | Bracket for mounting one ART speaker on the wall - horizontal. Adjustable inclination. Colour black. |

