

ART SERIES

ACTIVE SPEAKER
ART 312A

RCF ART 312-A is an active, wide dispersion 2 way sound reinforcement speaker. It integrates a high power 350 Watt amplifier, a complete electronic processor section and RCF low distortion, high power transducers. The result is a compact, high power accurate system, unique in its class for clarity and low distortion. The new 12" inch woofer is the result of the latest refinement in years of RCF experience in compact 2 way speakers, resulting in a fast and accurate reproduction of the midbass frequency range and controlled deep bass. The compression driver uses a new 1.5" titanium dome in front of a low compression, optimised geometry and radial phase plug. This innovative design is powered from a high flux neodymium magnet and offers a very open and natural midrange sound and extreme precision in high frequencies reproduction. A generous 2 step class H design is used to power the low frequencies and the compression driver amplifier is a warm and clear class AB design. The input section presents an XLR and Jack input connector that is switchable from microphone to line levels. A master volume control plus a useful XLR loop-through link guarantees the best versatility. The processor section includes active crossover, system equalization, transducer phase alignment and limiter and protection functions. The system is visually controlled from 4 status LEDs. All components are housed in a strong, lightweight, polypropylene composite enclosure. The woofer and compression driver throat are protected from a strong, powder coated, metal grille. The cabinet shape is perfect for monitoring applications. The cabinet features four M10 threaded fly points, a 35 mm internal pole mount facility, two side handles and a ergonomic top handle design.

Applications

ART 312-A is the optimum choice for live sound situations where an exceptional full range, outstanding bass reproduction and accurate high frequency delivery is required. The ART 312-A is also suitable for monitoring applications.

Features

- 350 watt Monolithic bi-amplification, 300 watt low frequency and 50 watt high frequency power
- 127 dB max SPL
- Wide dispersion, 90 x 60 low distortion, constant directivity horn
- 12" high power woofer, 64mm edge wound aluminium coil
- 1" neodymium, titanium dome, high frequency driver
- Electronic equalization, phase alignment, limiter and protection
- Mic/Line XLR and Jack input, XLR signal output
- 2 side handles and 1 comfort designed top handle for easy transportation and positioning
- Four M10 fly points and built in pole mount adaptor
- Optional Infrared remote control for volume, mute and Eq adjustment

ACOUSTICAL SPECIFICATIONS

Frequency response:	50 - 20 KHz
Max SPL:	127 dB
Coverage angle:	90° x 60°
Compression driver:	neo 1"
Woofer:	12"

INPUT SECTION

Input signal (Impedance):	bal/unbal
Input connector:	jack/xlr
Output signal connector:	xlr
Input sensitivity:	0 dBu
Mic. input sensitivity:	-40 dBu

PROCESSOR SECTION

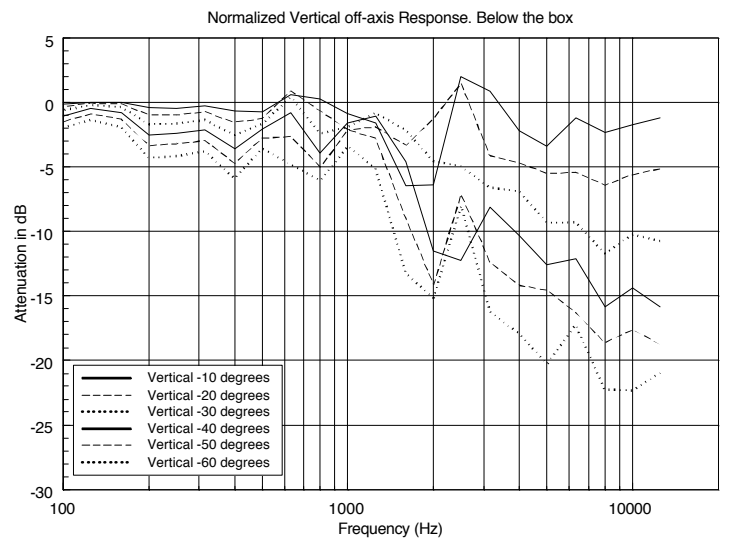
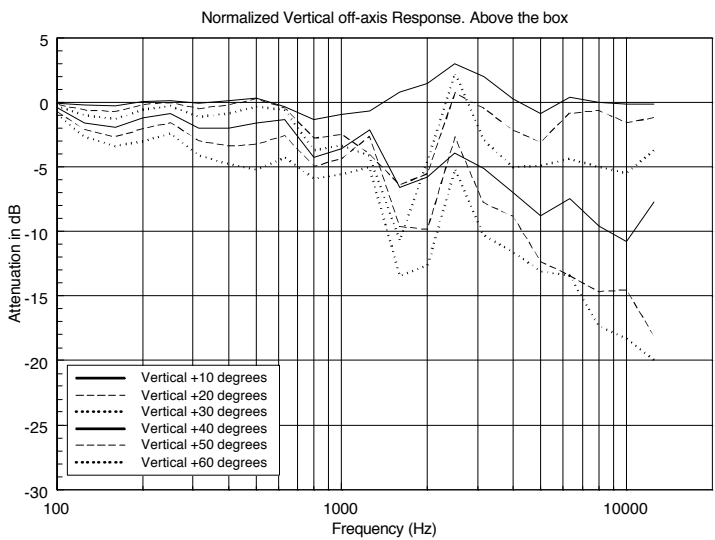
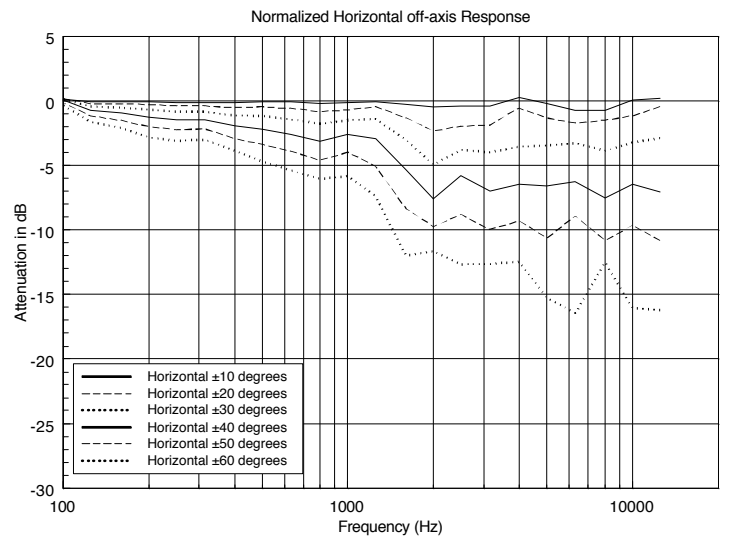
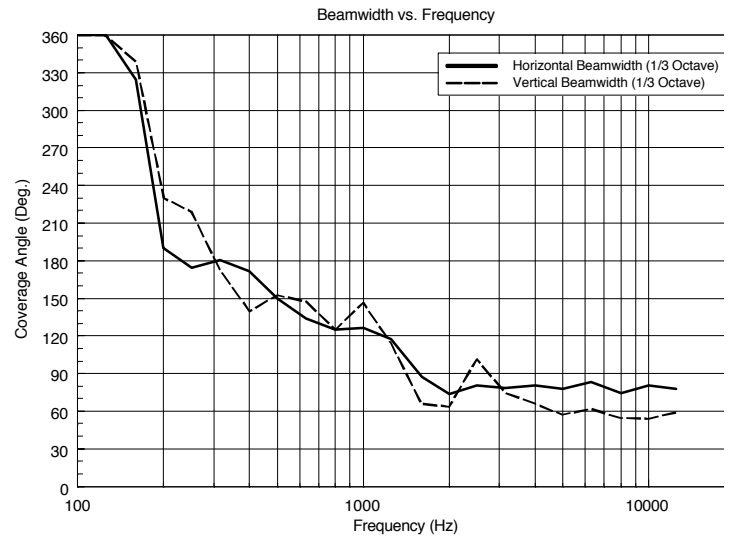
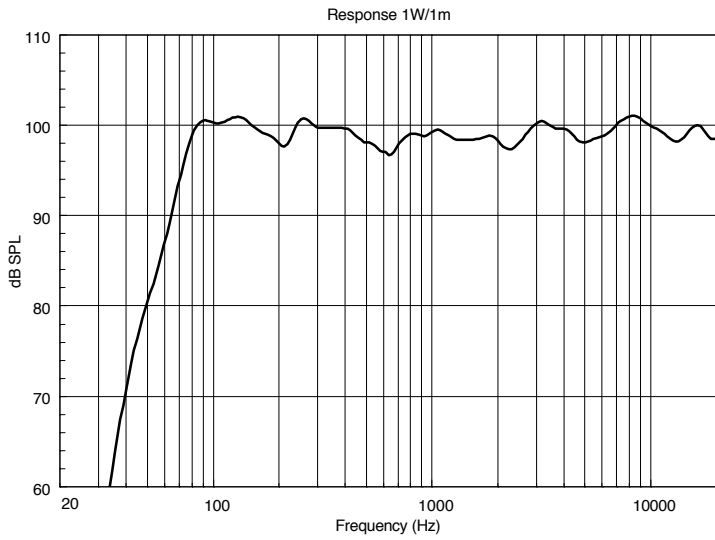
Crossover frequencies:	1800 Hz
Protections:	DC / short cir.
Limiter:	fast limiter
Master volume:	yes
Music / Voice eq:	yes
Remote control option:	yes

AMPLIFIER

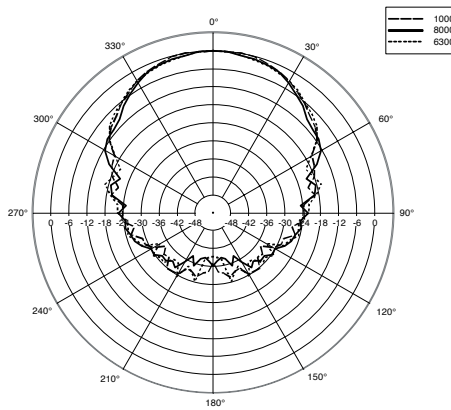
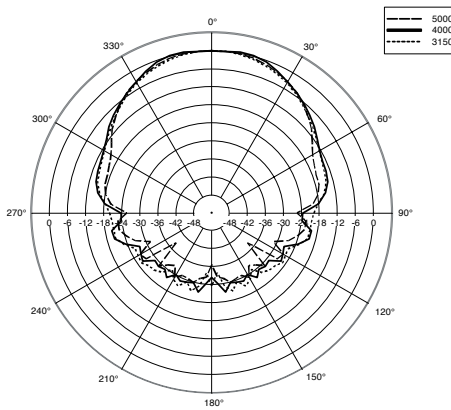
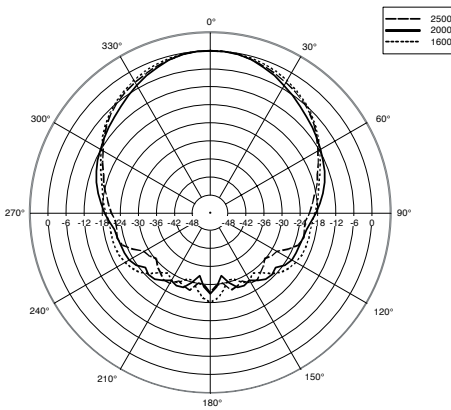
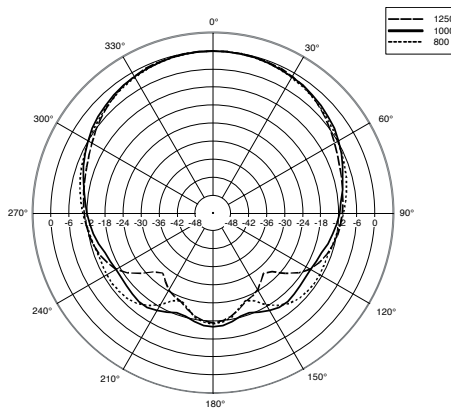
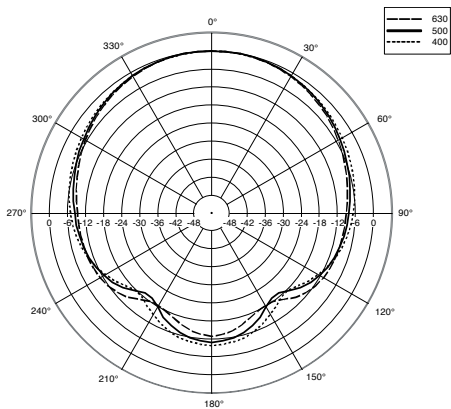
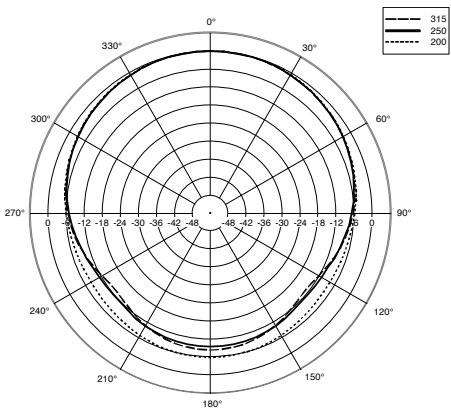
Nominal power:	350 Watt
High frequencies:	ab / 50 Watt
Low frequencies:	H / 300 Watt
Cooling:	Convection

PHYSICAL

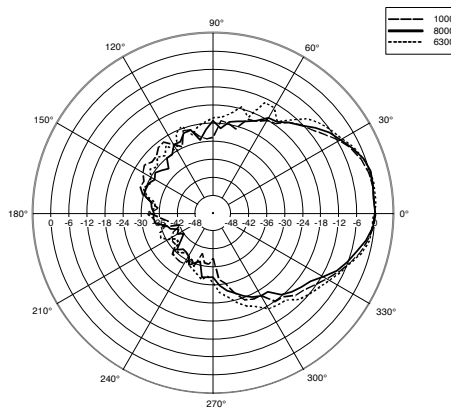
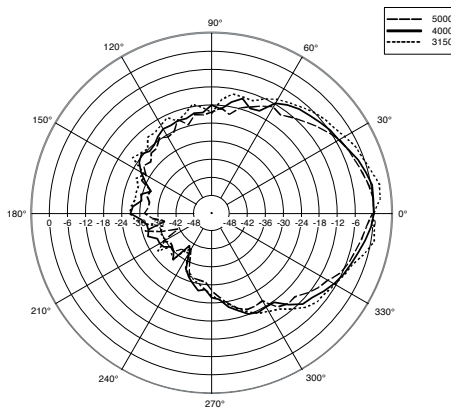
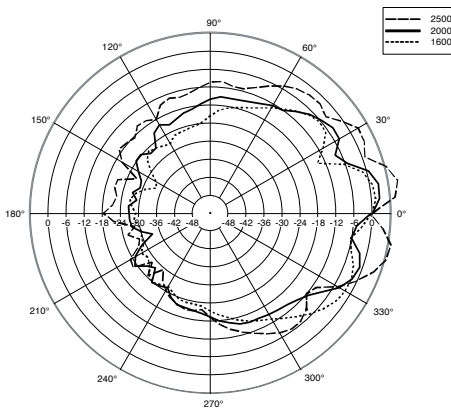
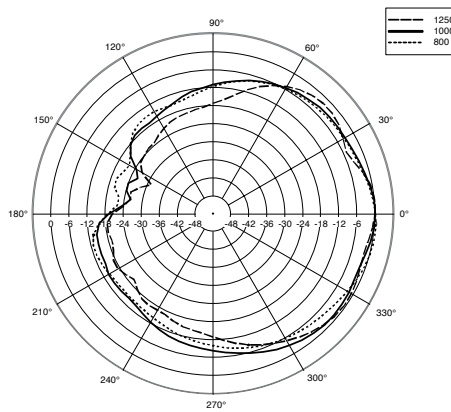
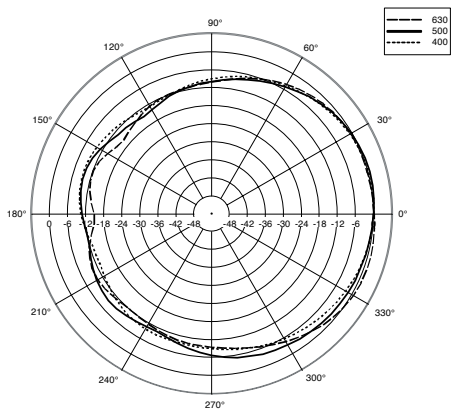
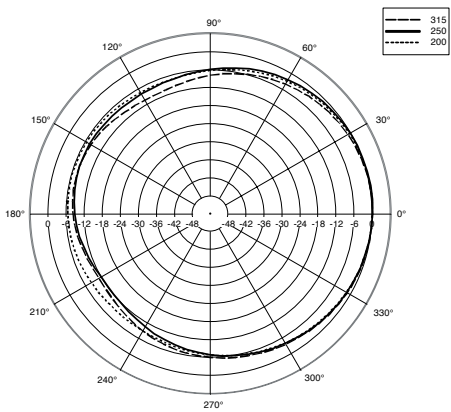
Cabinet:	Composite PP
Dimensions (HxWxD):	26.77" x 15.94" x 13.58" (680x405x345 mm)
Weight:	41.89 lbs. (19 kg)
Hardware:	4 M10 flying points
Handles:	2 side, 1 top
Pole Mount / Cap:	yes
Colour:	Anthracyte gray



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 312A

2.02 Design

Configuration	Compact 2 way speaker
LF Sub-section	12" woofer, 64 mm edge wound aluminium coil
HF Sub-section	1" neodymium

2.03 Acoustical Proprieties

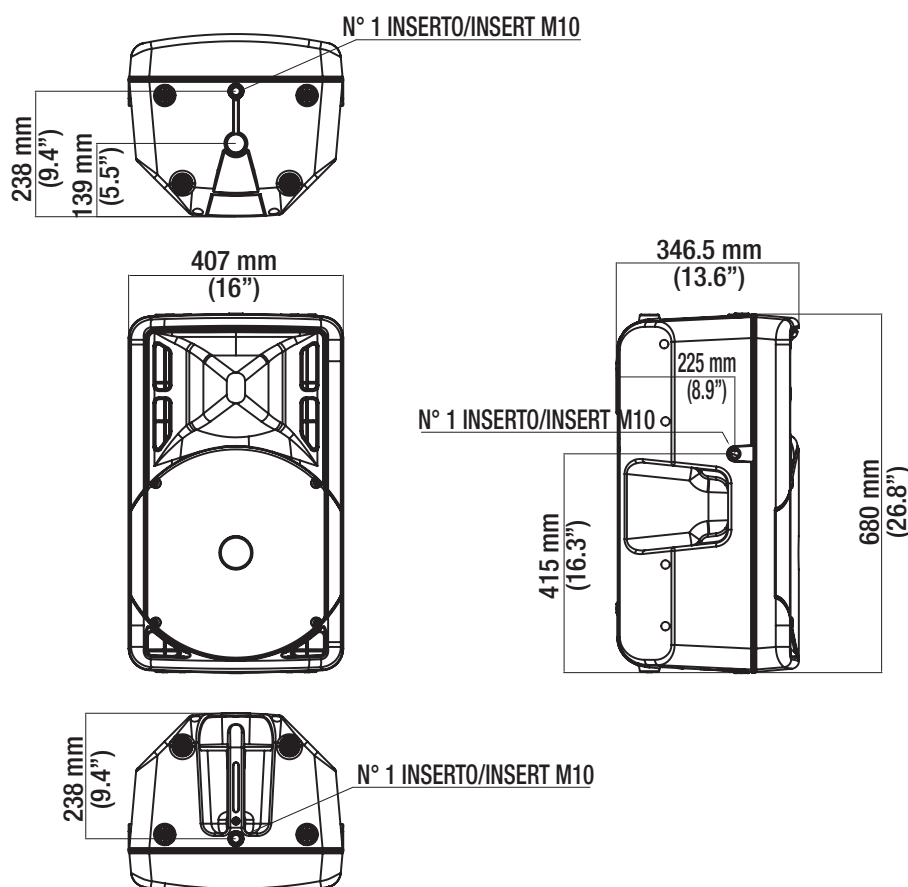
Nominal dispersion angle:	Horizontal: 90° - Vertical: 60°
Axial frequency range:	50Hz-20kHz

2.04 Physical Properties

Cabinet:	Composite PP
Rigging inserts:	4 M10 fly points and built in pole mount adaptor
Color:	Anthracite gray
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:	41.89 lbs. (19 kg)

2.05 Accessories

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.



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