

ARTSERIES →

ACTIVE SPEAKER
ART 322Ai

RCF ART 322-Ai is an active, wide dispersion 2 way sound reinforcement speaker. It integrates a high power 400 Watt amplifier, with a complete electronic processor section and RCF Precision Series low distortion, high power transducers. The result is a compact, high power accurate system, incredible for linearity and vocal intelligibility. This new high power 12" inch woofer is the result of the latest refinement in years of RCF experience in compact 2 way speaker manufacturing, resulting in a fast and accurate reproduction of the midbass frequency range and tight deep bass. Features a 3" inside/outside voice coil to minimize power compression and extend the life of this product. The compression driver uses a 0.05 mm pure titanium dome featuring a complex geometry suspension and Direct Drive coil. This innovative design is powered from a massive high flux neodymium magnet and an edge wound 64 mm aluminium voice coil. This unique driver offers a transparent midrange sound and extreme fidelity in high frequencies reproduction. A generous 2 step class H TAED amplifier design is used to power the low frequencies and the compression driver amplifier is a warm and clear class AB design. The input section offers an XLR and Jack input connector that is switchable from microphone to line levels. A master volume knob and a useful XLR loop-through link guarantee the best versatility. The processor section includes active crossover, system equalization, transducer phase alignment, limiter and protection functions. The system is visually monitored from 4 status LEDs. All components are housed in a strong, lightweight, polypropylene composite enclosure. 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 pole mount adaptor, two side handles and an ergonomic top handle.

Applications

With the perfect blend of the fast, high efficiency transducers, ART 322-Ai offers an extremely linear response and precise, deep low frequency control. The ideal cabinet for main front of house PA and monitoring, ART 322-A is the perfect solution where the power of a 2" compression driver is required for longer throw applications in larger venues.

Features

- 420 watt Monolithic bi-amplification, 350 watt low frequency and 70 watt high frequency power
- 128 dB SPL peak
- Wide dispersion, 90°x60° low distortion, constant directivity horn
- 12" high power woofer, 75mm inside/outside aluminium coil
- 2" neodymium, titanium dome, high frequency driver
- Electronic equalization, phase alignment, limiter and protection
- Mic/Line combo XLR/Jack input, XLR signal output
- 2 side handles and 1 ergonomic 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:	45 - 20 KHz
Max SPL:	128 dB
Coverage angle:	90° x 60°
Compression driver:	neo 2"
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

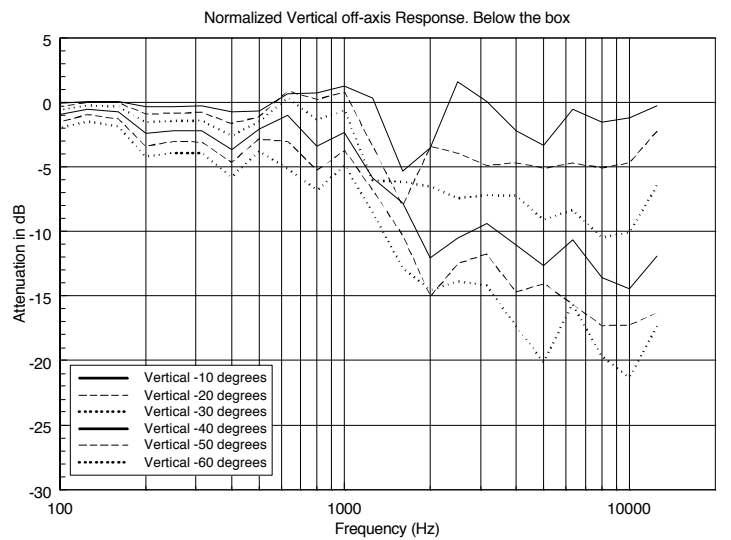
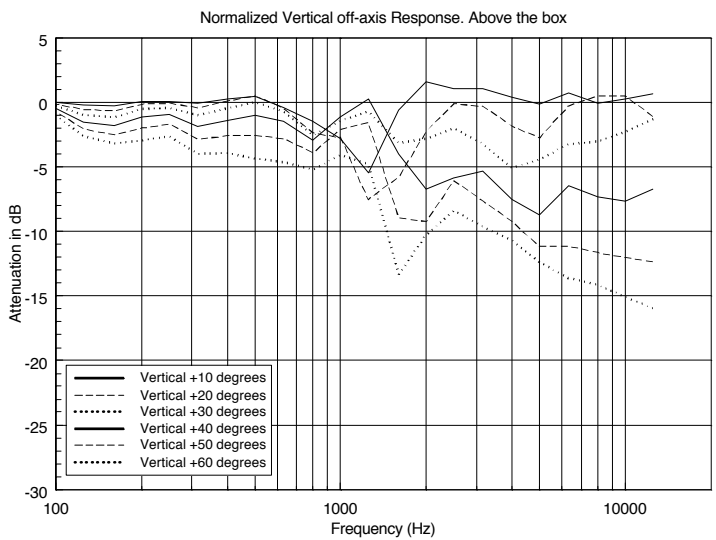
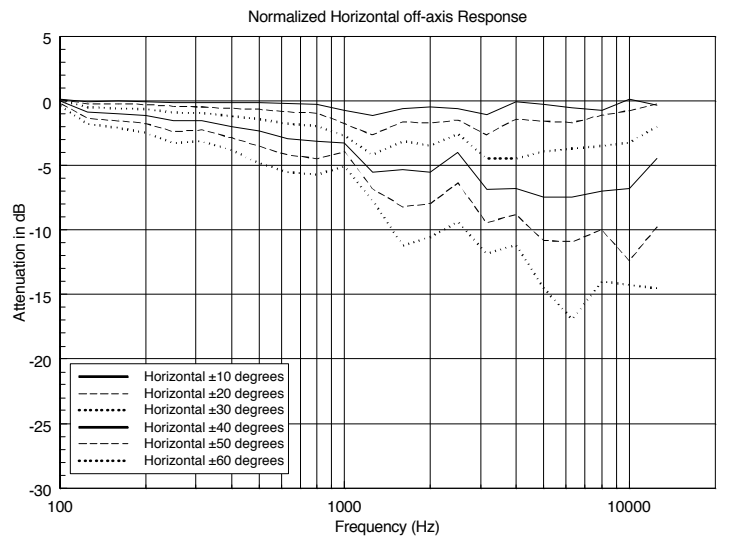
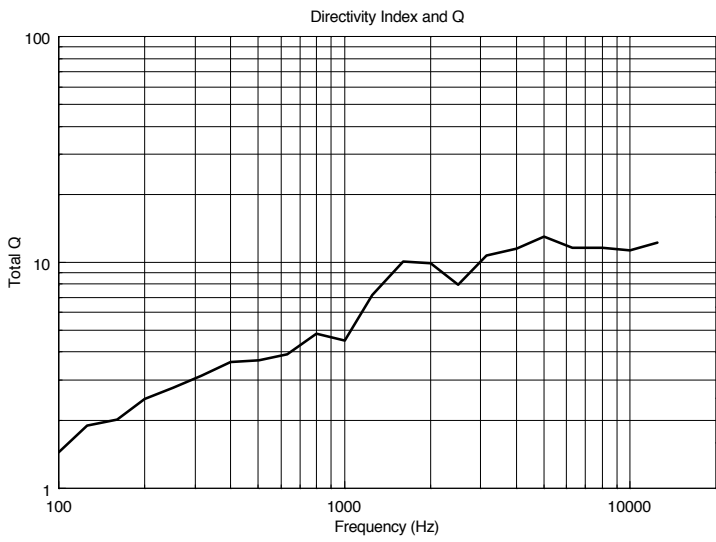
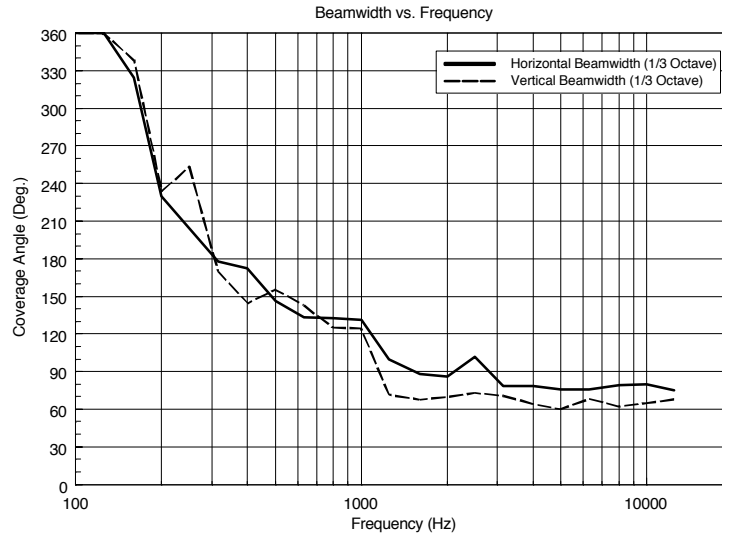
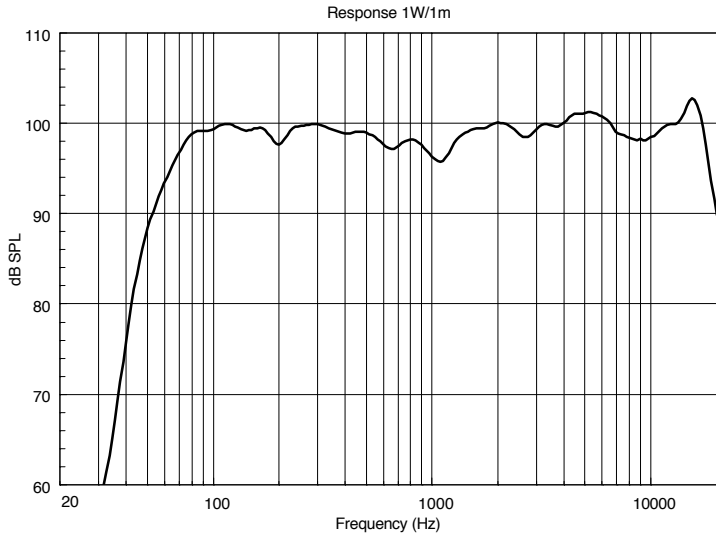
Crossover frequencies:	1200 Hz
Protections:	DC / short cir.
Limiter:	fast limiter
Master volume:	yes
Music / Voice eq:	yes
Remote control option:	yes

AMPLIFIER

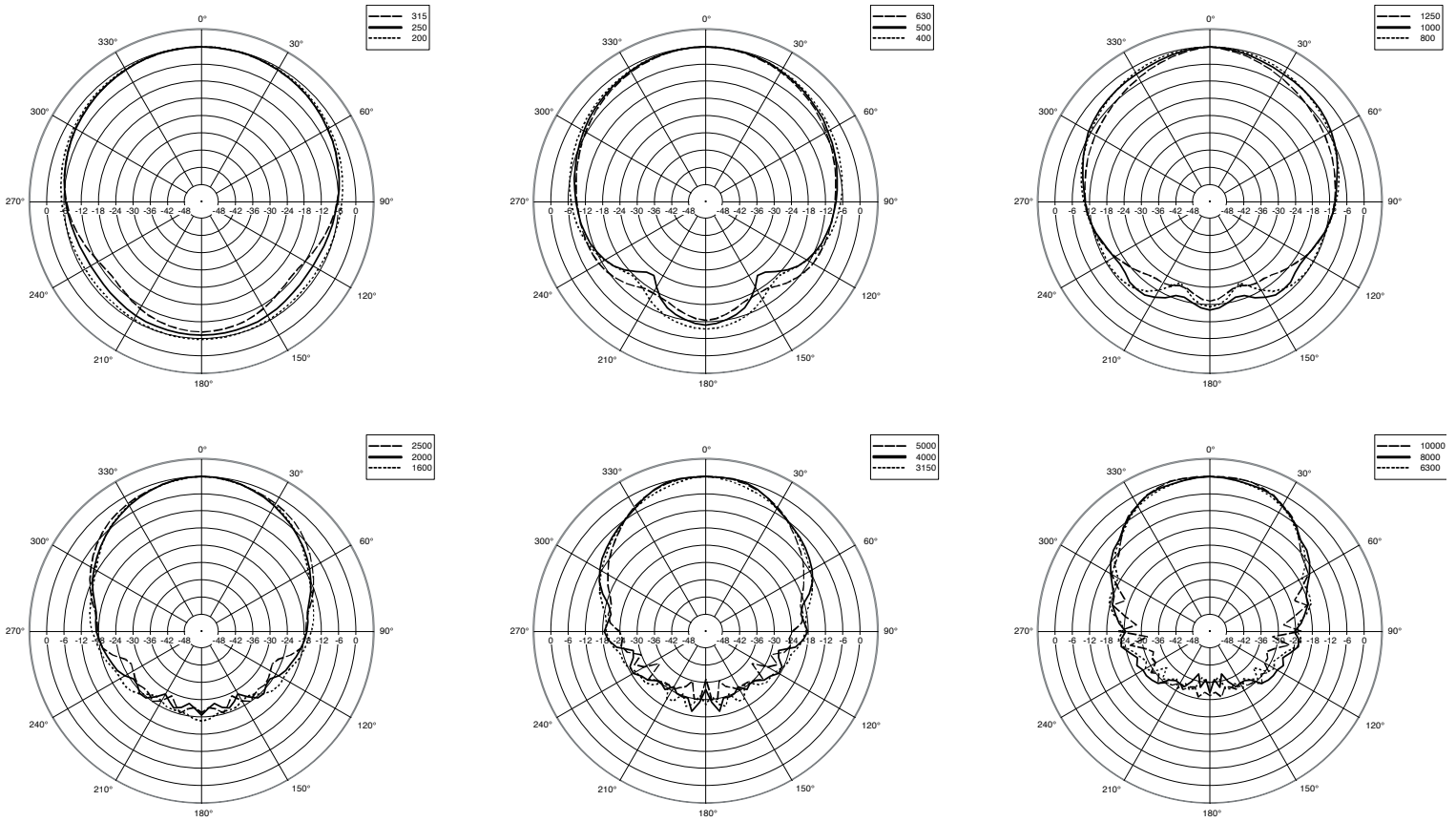
Nominal power:	400 Watt
High frequencies:	ab / 50 Watt
Low frequencies:	H / 350 Watt
Cooling:	Convection

PHYSICAL

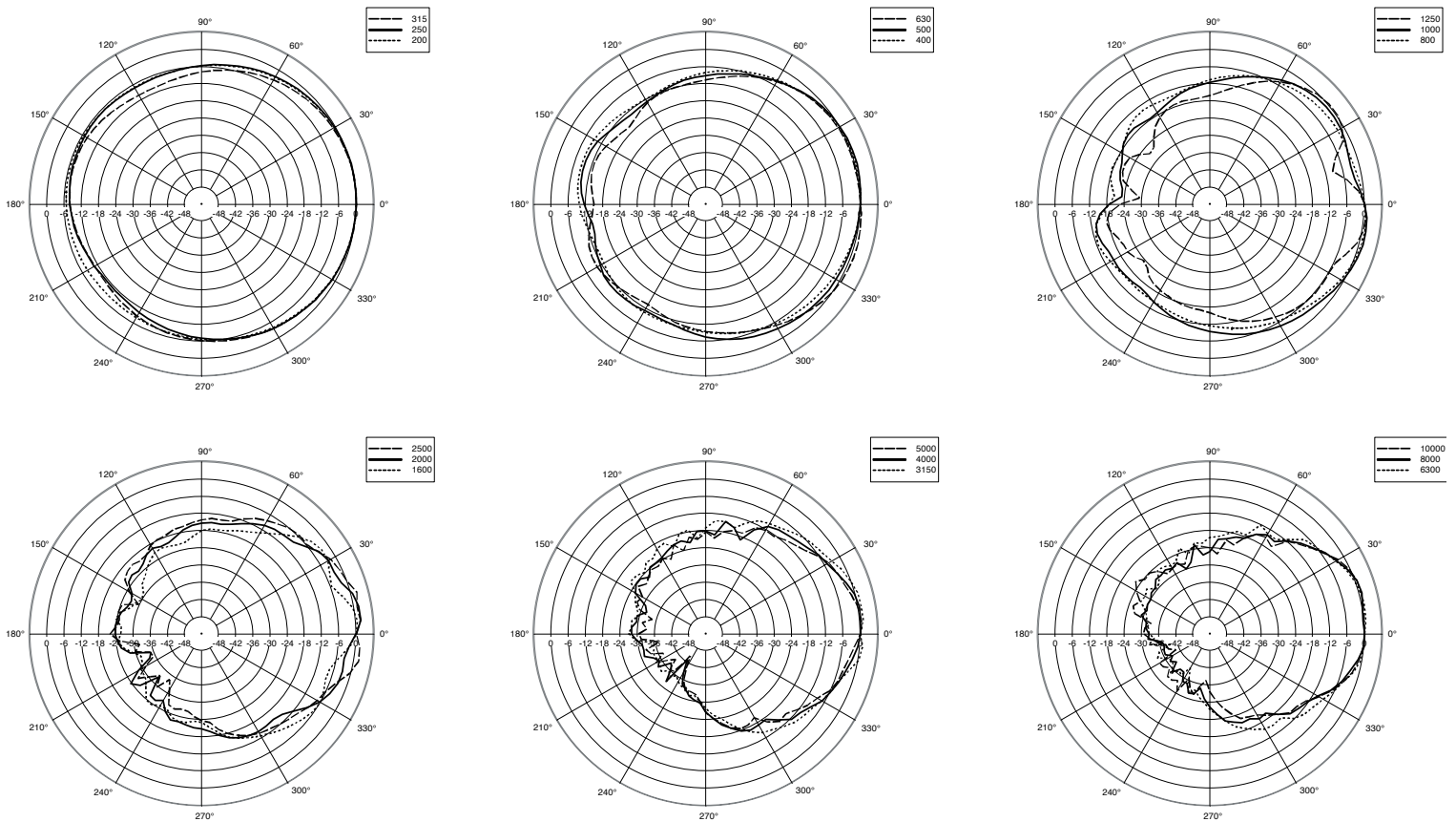
Cabinet:	Composite PP
Dimensions (HxWxD):	26.77" x 15.94" x 13.58" (680x405x345 mm)
Weight:	50.70 lbs. (23 kg)
Hardware:	4 M10 flying points
Handles:	2 side, 1 top
Pole Mount / Cap:	yes
Colour:	Anthracyte gray



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 322Ai

2.02 Design

Configuration	Compact 2 way speaker
LF Sub-section	12" high power woofer, 75mm inside/outside aluminium coil
HF Sub-section	2" neodymium

2.03 Acoustical Proprieties

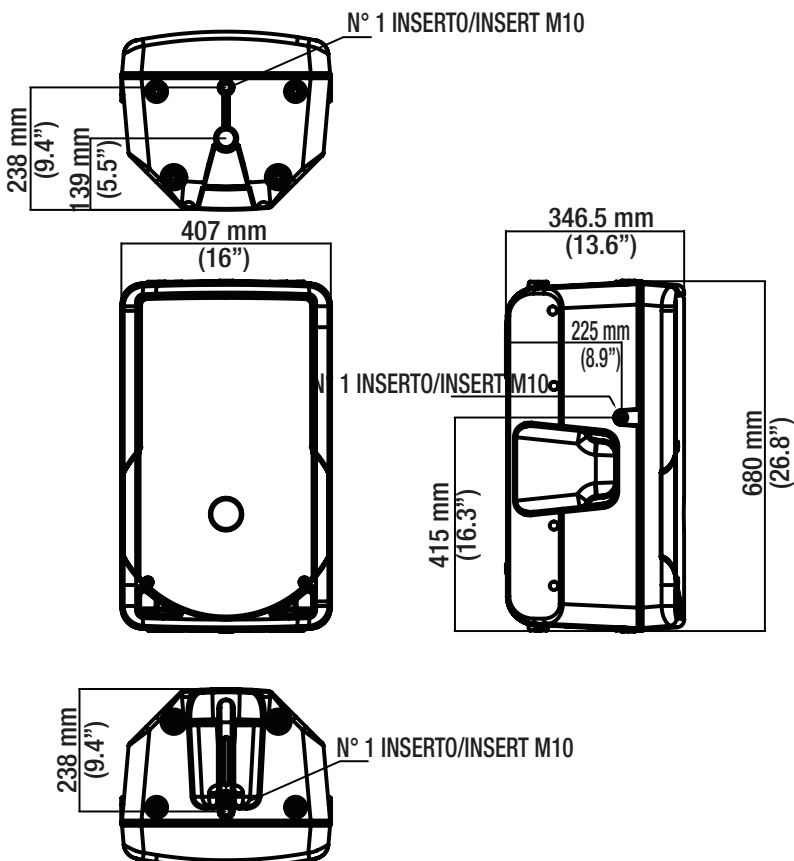
Nominal dispersion angle:	Horizontal: 90° - Vertical: 60°
Axial frequency range:	45Hz-20kHz

2.04 Physical Properties

Cabinet:	Composite PP
Rigging inserts:	4 M10 fly points and built in pole mount adaptor
Color:	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:	50.70 lbs. (23 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.



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