ARTSERIES

ACTIVE SPEAKER

ART 315A



RCF ART 315-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 his class for clarity and low distortion. The new 15" inch woofer is the result of the latest refinement in years of RCF experience in compact 2 way speakers, resulting in an accurate reproduction of the midbass frequency range and a tight punchy bass.
The compression driver uses a new 1.5" mylar dome in front of a low compression, optimised geometry, radial phase plug. This innovative design is powered from a high flux neodymium magnet offering a very open and natural midrange sound with extreme precision in high frequency 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 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 processor section includes active crossover, 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 features four M10 threaded fly points, a 35 mm stand adaptor plus two side handles and an ergonomic top handle.

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

- 350 watt Monolithic bi-amplification, 300 watt low frequency and 50 watt high frequency power
- 128 dB max SPL
- Wide dispersion, 90 x 60 low distortion, constant directivity horn
- 15" high power woofer, 64mm edge wound aluminium coil
- 1" neodymium, mylar dome, high frequency driver
- Electronic equalization, phase alignment, limiter and protection
- Mic/Line 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:	50 - 20 Khz
Max SPL:	128 dB
Coverage angle:	90° x 60°
Compression driver:	neo 1"
Woofer:	15"

INPUT SECTION

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

PROCESSOR SECTION

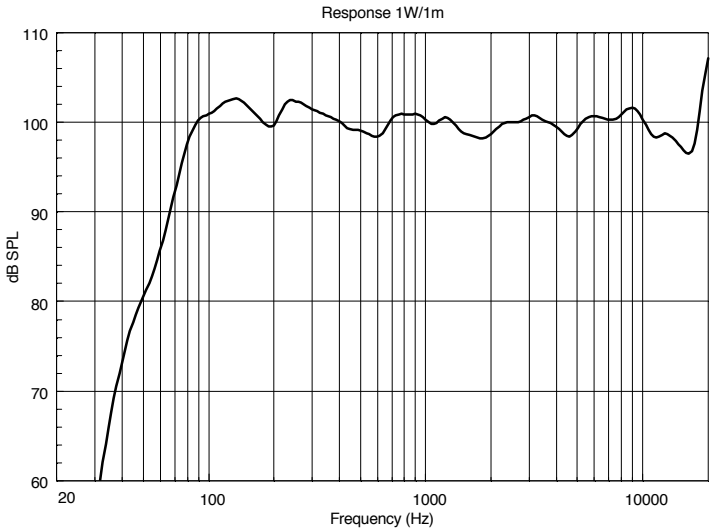
Crossover frequencies:	1800 Hz
Protections:	DC / short cir.
Limiter:	fast limiter
Master volume:	yes
Music / Voice eq:	yes
Remote control option:	yes

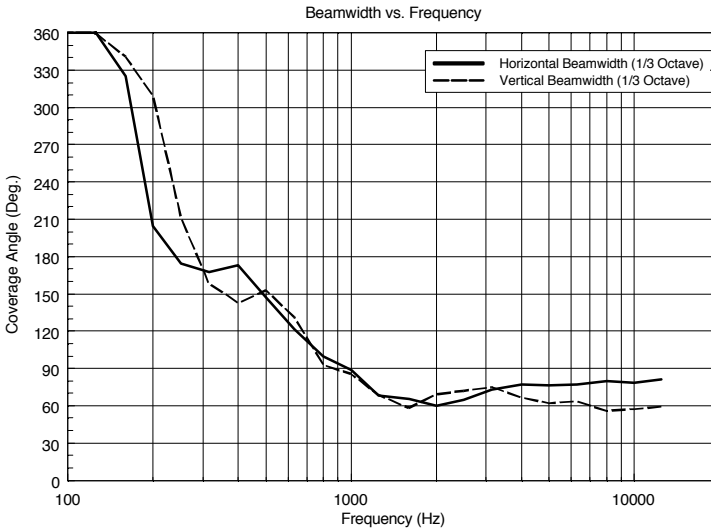
AMPLIFIER

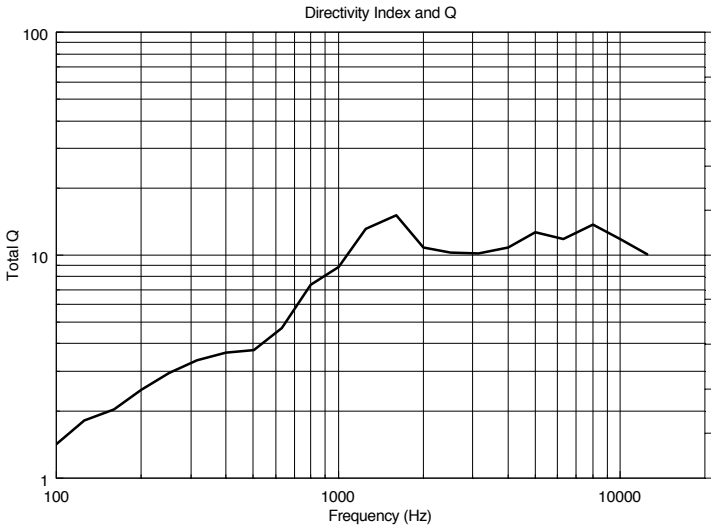
Nominal power:	350 Watt
High frequencies:	ab / 50 Watt
Low frequencies:	H / 300 Watt
Cooling:	Convection

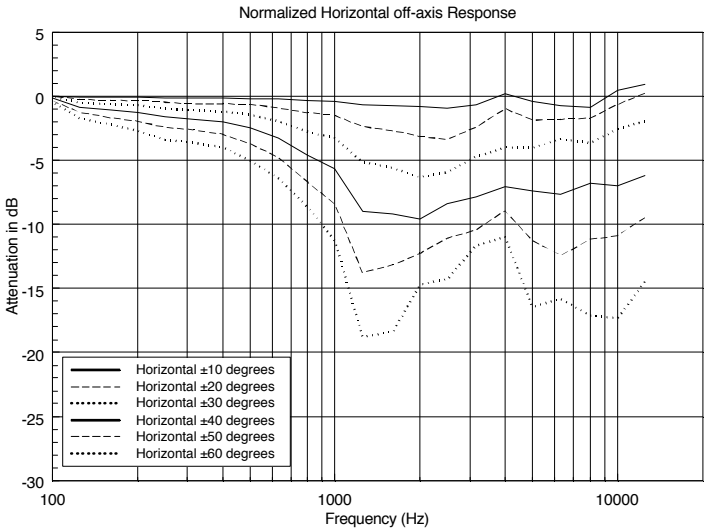
PHYSICAL

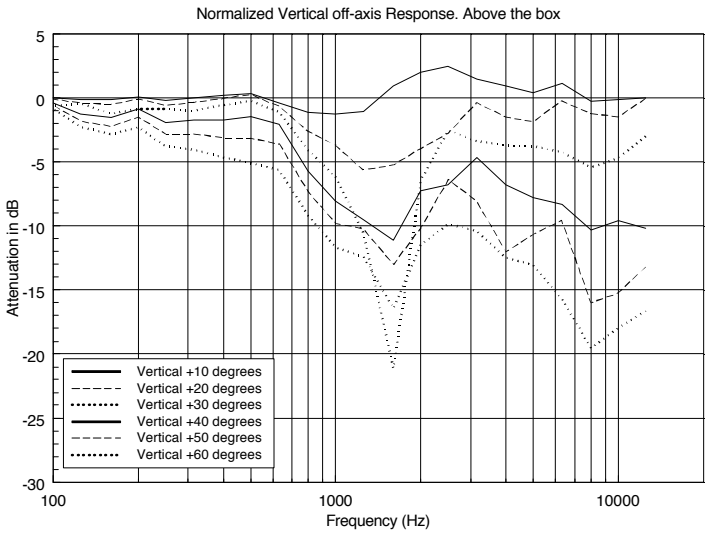
Cabinet:	Composite PP
Dimensions (HxWxD):	26.77" x 15.94" x 13.58" (680x405x345 mm)
Weight:	44.09 lbs. (20 kg)
Hardware:	4 M10 flying points
Handles:	2 side, 1 top
Pole Mount / Cap:	yes
Colour:	Antrhracyte gray

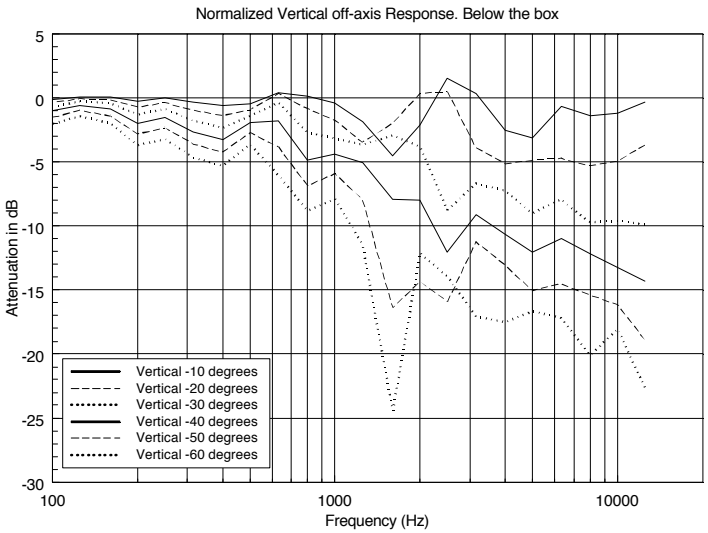

Response 1W/1m
dB SPL
Frequency (Hz)
110
100
90
80
70
60
20
100
1000
10000


Beamwidth vs. Frequency
Coverage Angle (Deg.)
Frequency (Hz)
Horizontal Beamwidth (1/3 Octave)
Vertical Beamwidth (1/3 Octave)
360
330
300
270
240
210
180
150
120
90
60
30
0
100
1000
10000

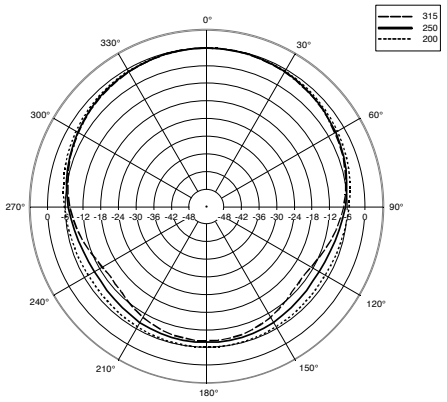

Directivity Index and Q
Total Q
Frequency (Hz)
100
10
1
100
1000
10000

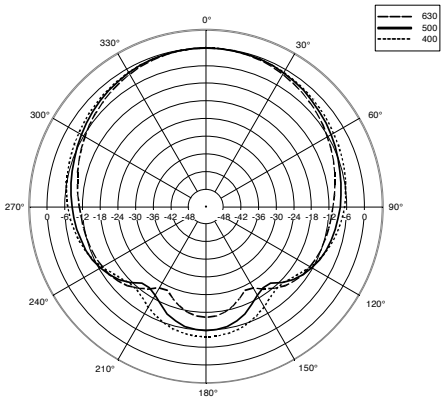

Normalized Horizontal off-axis Response
Attenuation in dB
Frequency (Hz)
Horizontal ±10 degrees
Horizontal ±20 degrees
Horizontal ±30 degrees
Horizontal ±40 degrees
Horizontal ±50 degrees
Horizontal ±60 degrees
5
0
-5
-10
-15
-20
-25
-30
100
1000
10000

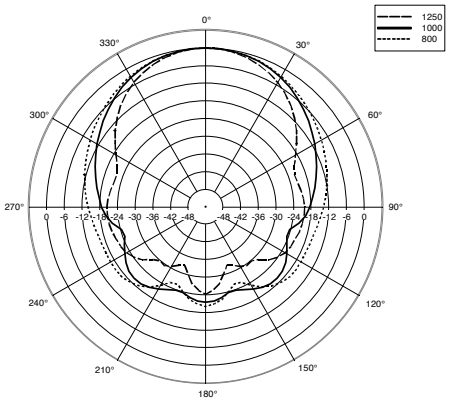

Normalized Vertical off-axis Response. Above the box
Attenuation in dB
Frequency (Hz)
Vertical +10 degrees
Vertical +20 degrees
Vertical +30 degrees
Vertical +40 degrees
Vertical +50 degrees
Vertical +60 degrees
5
0
-5
-10
-15
-20
-25
-30
100
1000
10000

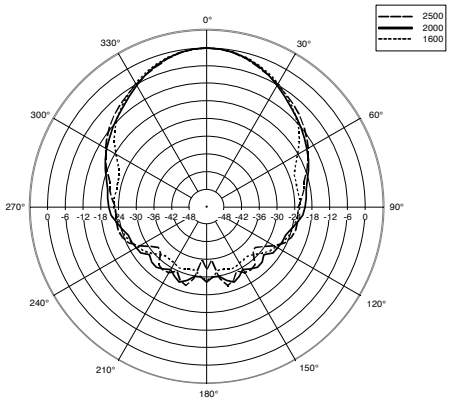

Normalized Vertical off-axis Response. Below the box
Attenuation in dB
Frequency (Hz)
Vertical -10 degrees
Vertical -20 degrees
Vertical -30 degrees
Vertical -40 degrees
Vertical -50 degrees
Vertical -60 degrees
5
0
-5
-10
-15
-20
-25
-30
100
1000
10000

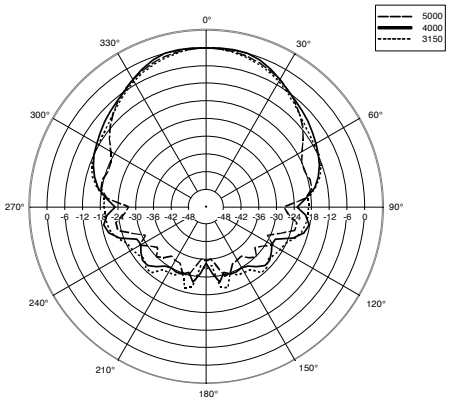
Horizontal 1/3 Polar Plot

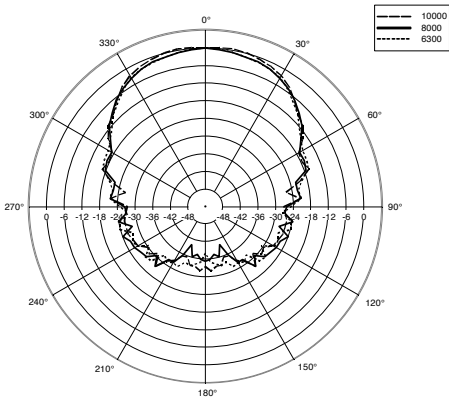




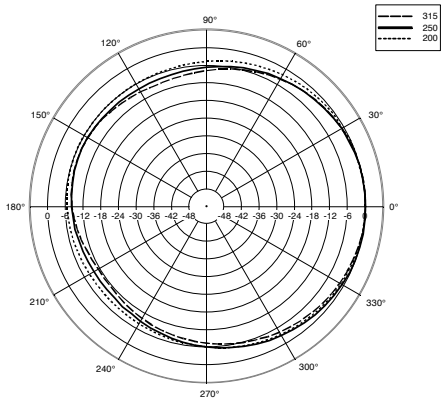


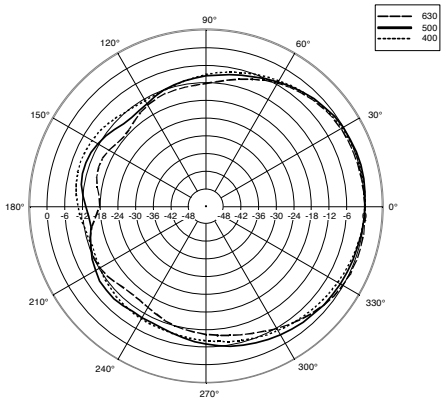


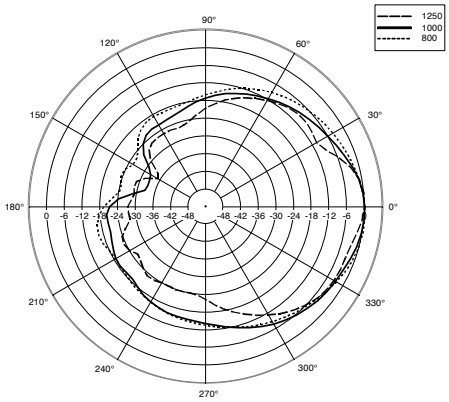


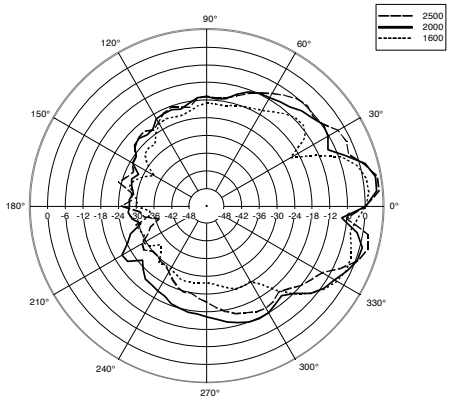


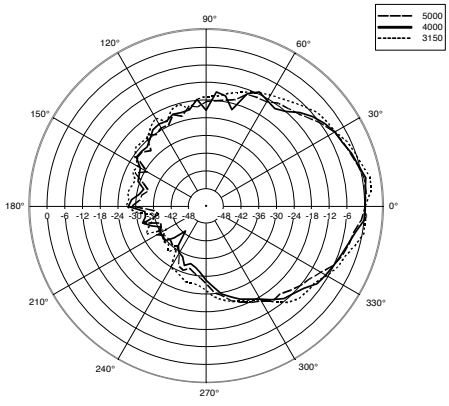
Vertical 1/3 Polar Plot

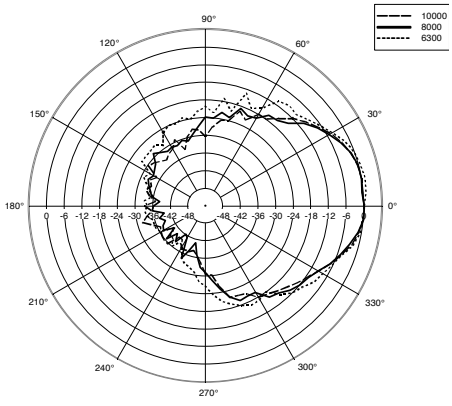












CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS “A&E SPECIFICATIONS”)
The following are “Part 2 Products” CSI-type specifications. It is assumed that “Part 1 General – Administrative and Procedures” and “Part 3 Execution – Installation and Maintenance” are part of 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, 64mm edge wound aluminium coil
HF Sub-section	1” neodymium

2.03 Acoustical Proprieties

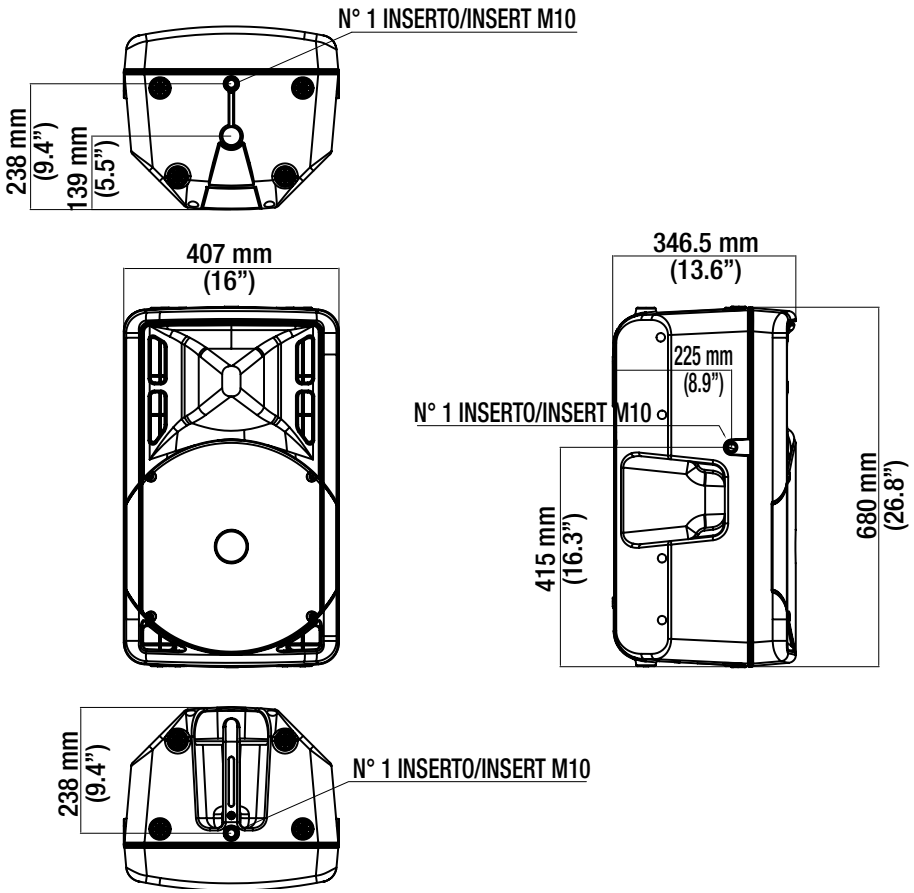
Nominal dispersion angle:	Horizontal: 90° - Vertical: 60°
Axial frequency range:	50Hz-20kHz

2.04 Physical Properties

Cabinet:	Composite PP
Rigging inserts:	4 M10 fly points and built in pole mount adaptor
Color:	Anthracyte gray
Grille:	Custom perforated steel grille with open-cell poly fiber backing
Input Connectors:	xlr
Dimensions (H x W x D):	26.77” x 15.94” x 13.58” (680x405x345 mm)
Weight:	44.09 lbs. (20 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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