ARTSERIES

PASSIVE SPEAKER

ART 310



ART 310 is the reference speaker in the 10" size. High quality neodymium transducers, very compact size cabinet. From live sound, playback and monitoring to corporate events and presentations, ART 310 is the ideal speaker in all the situations where the output of a PA and the size of a studio monitor is required. Superb deep bass punch, very linear and precise frequency response.
RCF ART 310 is an wide dispersion 2 way sound reinforcement speaker. The new 10" neodymium woofer is the result of the latest refinement in year of RCF experience in compact 2 way speakers. Features a 2,5 " 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 neodymium 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 components are 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

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Features

- 200 watt power handling
- 124 dB max SPL
- Wide dispersion, 90°x70° low distortion, constant directivity horn
- 10" high power woofer, 64mm in/out aluminium coil
- 1" neodymium, high frequency driver
- Electronic equalization, phase alignment, limiter and protection
- Mic/Line XLR input, XLR signal output
- 1 comfortable top handle for easy transportation and positioning
- Two M10 fly points and built in pole mount adaptor

ACOUSTICAL SPECIFICATIONS

Frequency response:	50 - 20 Khz
Max SPL:	124 dB
Sensitivity 1w/1m:	98
Coverage angle:	90° x 70°
Compression driver:	neo 1"
Woofer:	10"
Power handling:	200W

INPUT SECTION

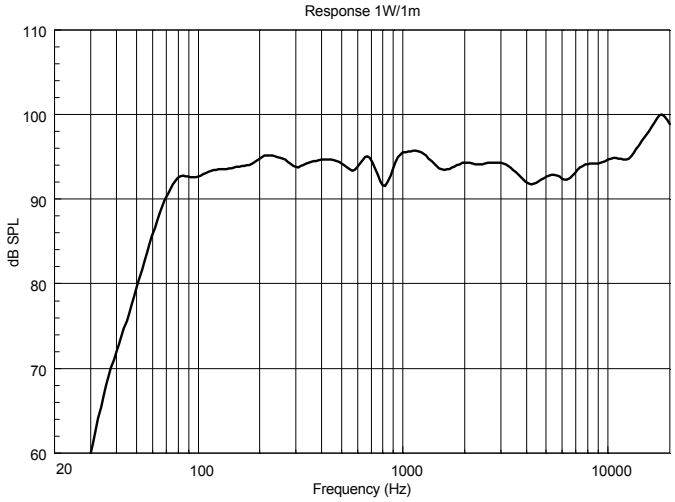
Input signal (Impedance):	8 ohm
Input connector:	speakon
Output signal connector:	speakon

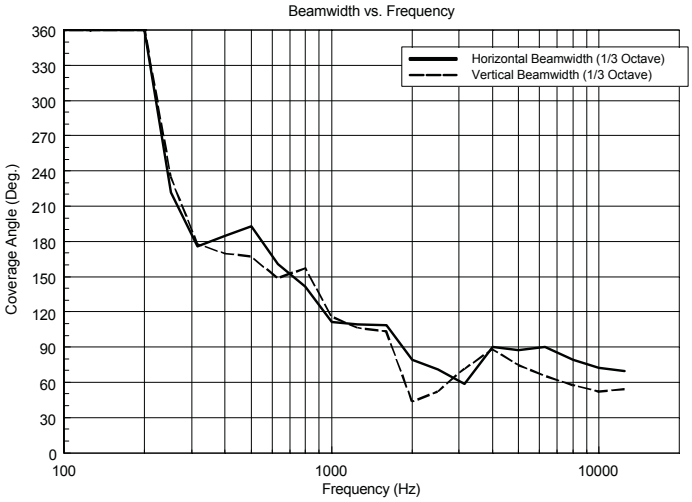
PROCESSOR SECTION

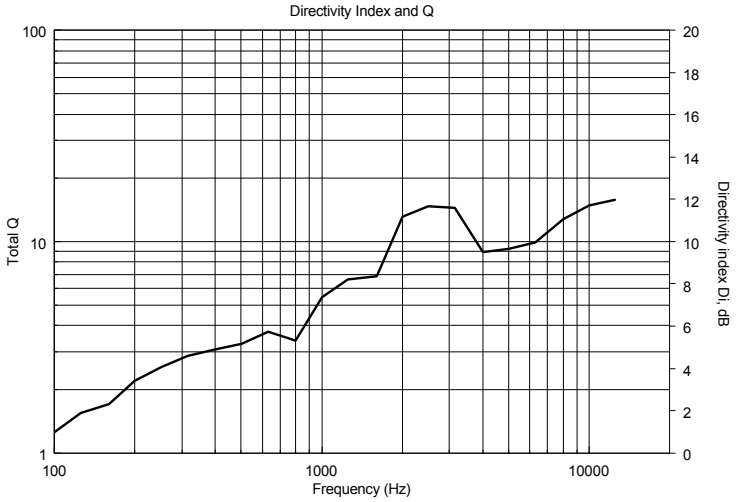
Crossover frequencies:	1800 Hz
Protections:	DC / short cir.

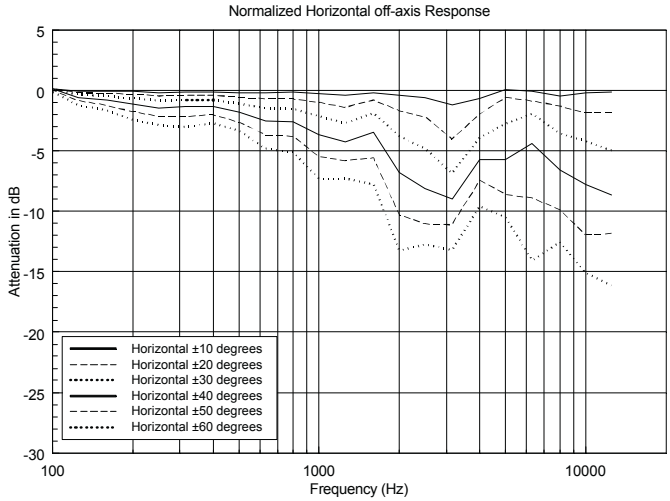
PHYSICAL

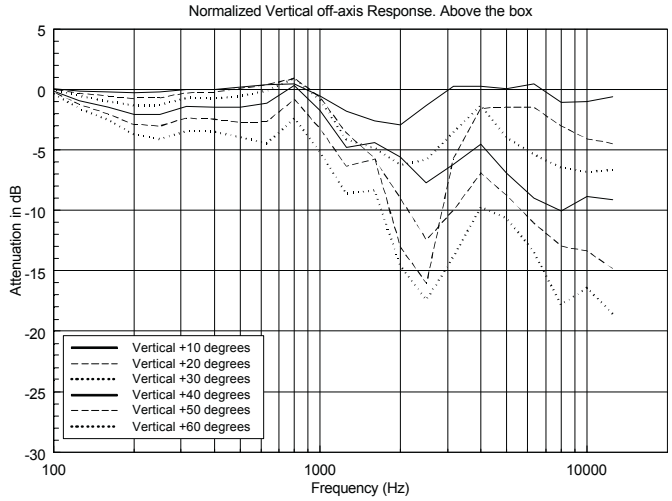
Cabinet:	Composite PP
Dimensions (HxWxD):	21.14" x 13.27" x 12.4" (537x337x315 mm)
Weight:	22.05 lbs. (10 kg)
Hardware:	4 M10 flying points
Handles:	2 side, 1 top
Pole Mount / Cap:	yes
Colour:	Antrhracyte gray

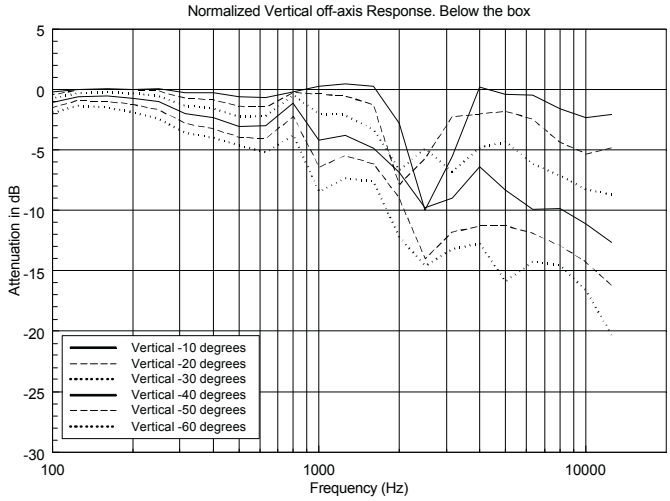

Response 1W/1m
dB SPL
Frequency (Hz)
110
100
90
80
70
60
20
100
1000
10000


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

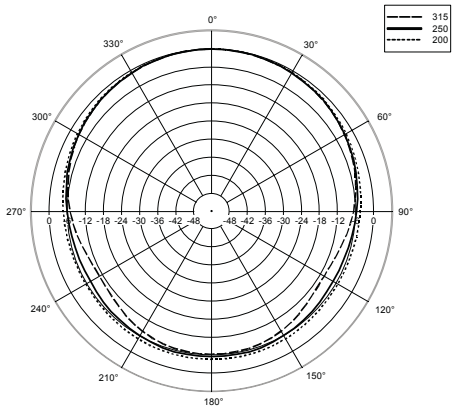

Directivity Index and Q
Total Q
Directivity Index DI, dB
Frequency (Hz)
100
10
1
20
18
16
14
12
10
8
6
4
2
0
100
1000
10000

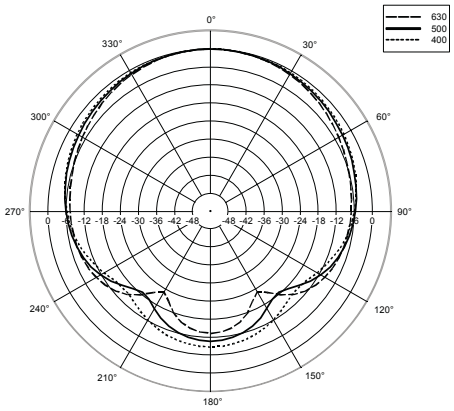

Normalized Horizontal off-axis Response
Attenuation in dB
Frequency (Hz)
Horizontal ±10 degrees
Horizontal ±20 degrees
Horizontal ±30 degrees
Horizontal ±40 degrees
Horizontal ±50 degrees
Horizontal ±60 degrees
5
0
-5
-10
-15
-20
-25
-30
100
1000
10000

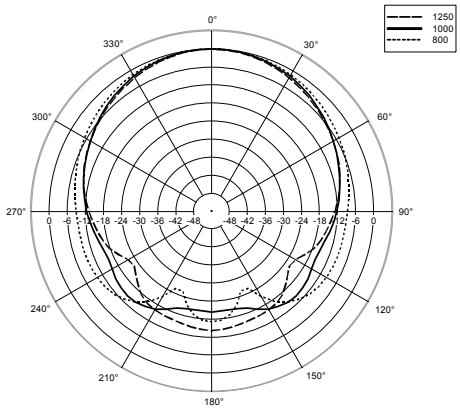

Normalized Vertical off-axis Response. Above the box
Attenuation in dB
Frequency (Hz)
Vertical +10 degrees
Vertical +20 degrees
Vertical +30 degrees
Vertical +40 degrees
Vertical +50 degrees
Vertical +60 degrees
5
0
-5
-10
-15
-20
-25
-30
100
1000
10000

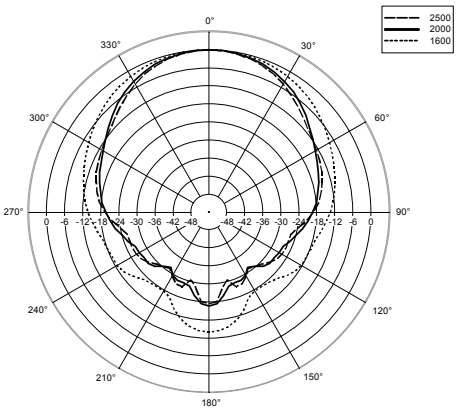

Normalized Vertical off-axis Response. Below the box
Attenuation in dB
Frequency (Hz)
Vertical -10 degrees
Vertical -20 degrees
Vertical -30 degrees
Vertical -40 degrees
Vertical -50 degrees
Vertical -60 degrees
5
0
-5
-10
-15
-20
-25
-30
100
1000
10000

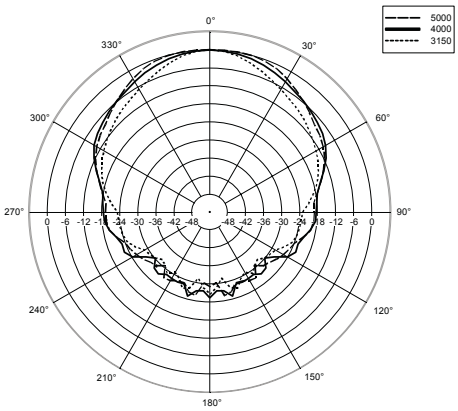
Horizontal 1/3 Polar Plot

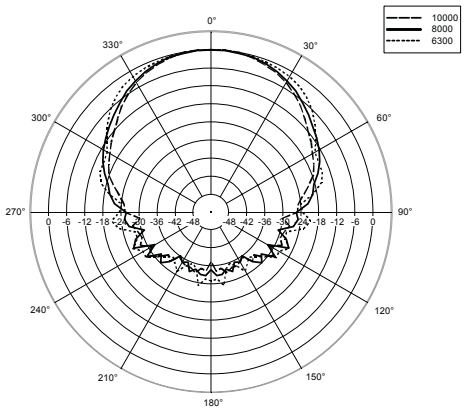




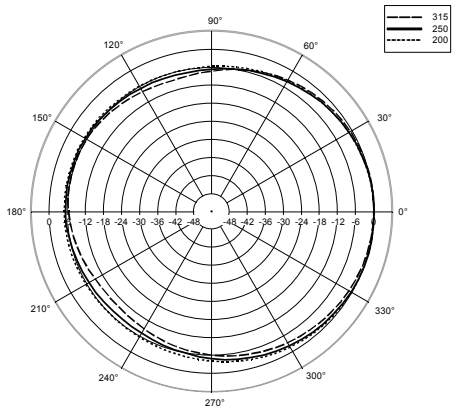


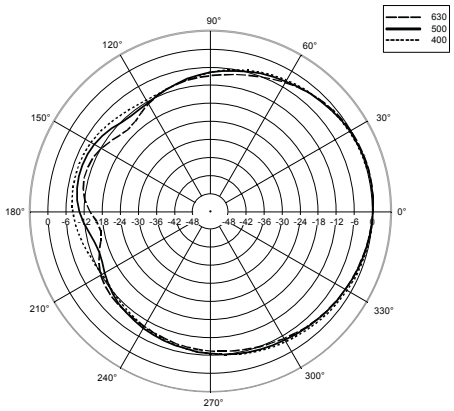


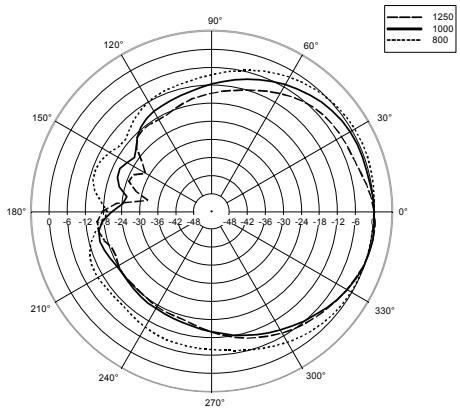


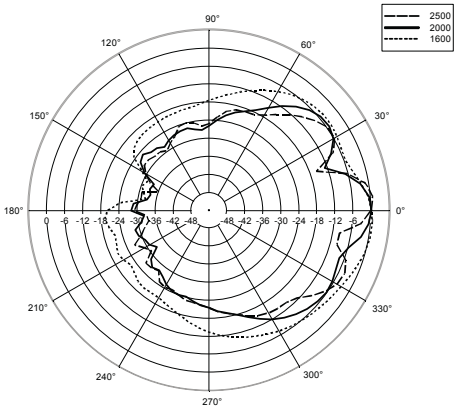


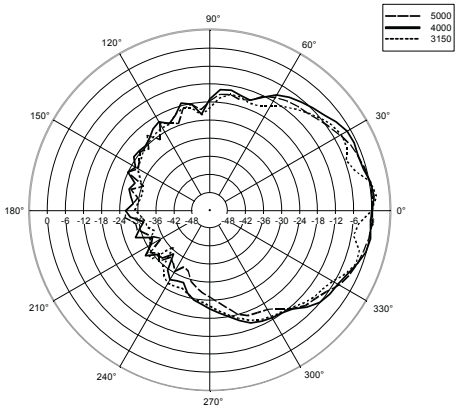
Vertical 1/3 Polar Plot

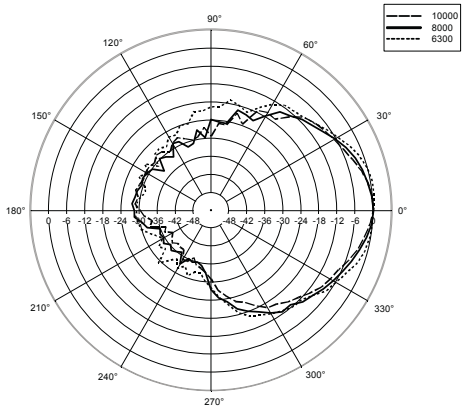












CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS “A&E SPECIFICATIONS”)
The following are “Part 2 Products” CSI-type specifications. It is assumed that “Part 1 General – Administrative and Procedures” and “Part 3 Execution – Installation and Maintenance” are part of 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 310

2.02 Design

Configuration	Compact 2 way speaker
LF Sub-section	10” woofer, 64 mm in/out aluminium coil
HF Sub-section	1” neodymium

2.03 Acoustical Proprieties

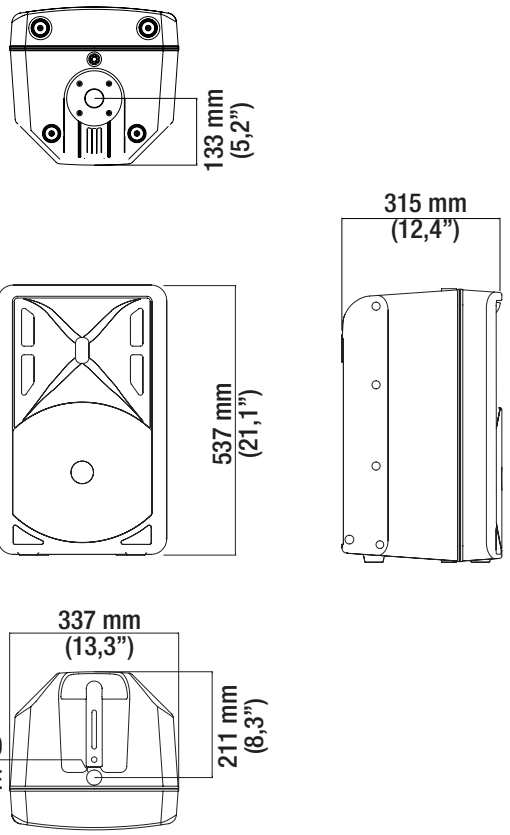
Nominal dispersion angle:	Horizontal: 90° - Vertical: 70°
Axial frequency range:	50Hz-20kHz

2.04 Physical Properties

Cabinet:	Composite PP
Rigging inserts:	2 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:	Speakon
Dimensions (H x W x D):	21.14” x 13.27” x 12.4” (537x337x315 mm)
Weight:	22.05 lbs. (10 kg)

2.05 Accessories

AC S140	Alluminium speaker floor stand with folding base end telescopic rod, tube Ø 35 mm



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