ARTSERIES

ACTIVE SPEAKER

ART 325A

RCF ART 325-A is an active, wide dispersion 2 way sound reinforcement speaker. It integrates a high power 400 Watt amplifier, a complete electronic processor section and RCF Precision Series low distortion, high power transducer. The result is a compact, high power accurate system, unique in its class for linearity and low distortion. This new high power 15" inch woofer is the result of the latest refinement in years of RCF experience in compact 2 way speaker manufacturing, providing a fast and accurate reproduction of the midbass frequency range and tight punchy 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 an extreme fidelity in high frequency reproduction. A generous 2 step class H TAED 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 control 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 features four M10 threaded fly points, a 35 mm pole mount adaptor, two side handles and an ergonomic top handle.

Applications

ART 325-A is the reference speaker in the new ART series. Ideal in live sound and installed situations, it is remarkable for deep bass punch, clean midrange output and accurate high frequencies. Offering the ultimate intelligibility in vocal and Recorded Music, from live sound to playback, from monitoring to fixed installation applications.

Features

- 400 watt Monolithic bi-amplification, 350 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, 75mm inside/outside aluminium coil
- 2" neodymium, titanium dome RCF Precision Series high frequency driver
- Electronic equalization, phase alignment, limiter and protection
- Mic/Line XLR and 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:	129 dB
Coverage angle:	90° x 60°
Compression driver:	neo 2"
Woofer:	15"

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

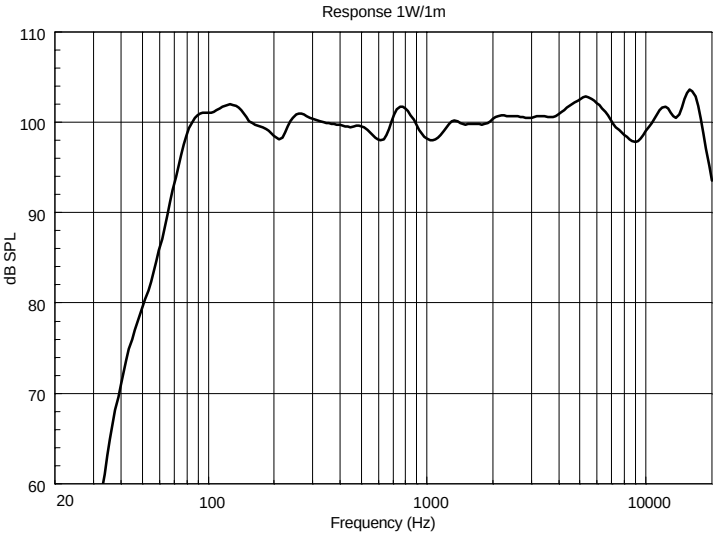
Crossover frequencies:	1200 Hz
Protections:	DC / short cir.
Limiter:	fast limiter
Master volume:	yes
Music / Voice eq:	yes
Remote control option:	yes

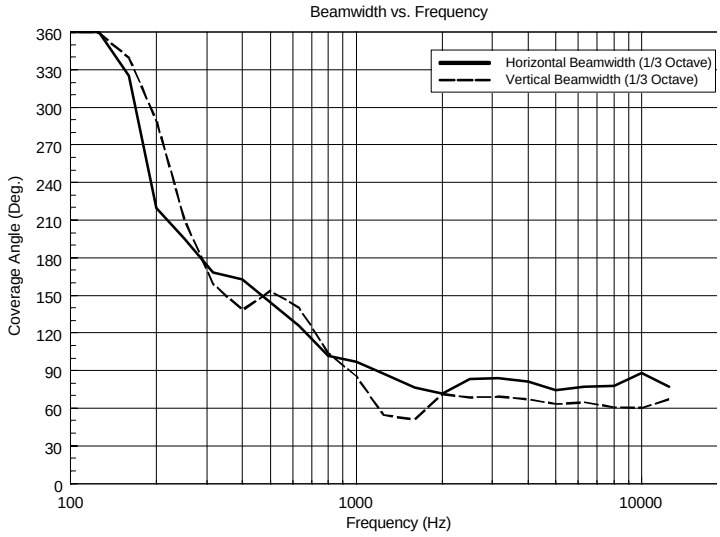
AMPLIFIER

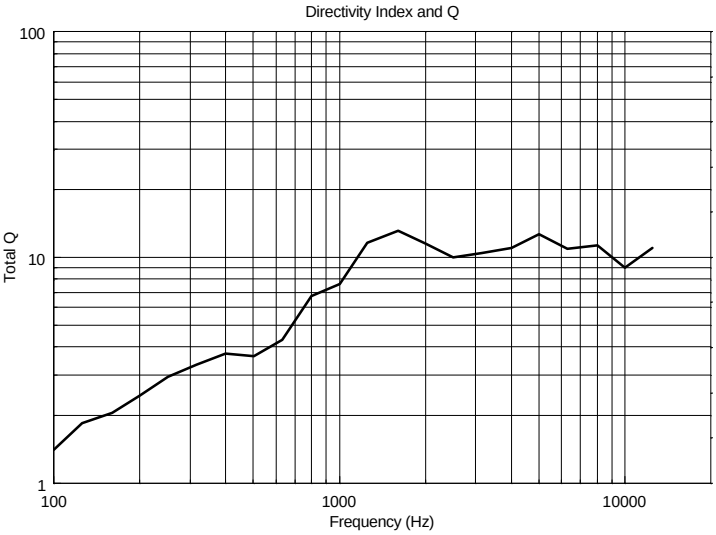
Nominal power:	400 Watt
High frequencies:	ab / 50 Watt
Low frequencies:	H / 350 Watt
Cooling:	Convection

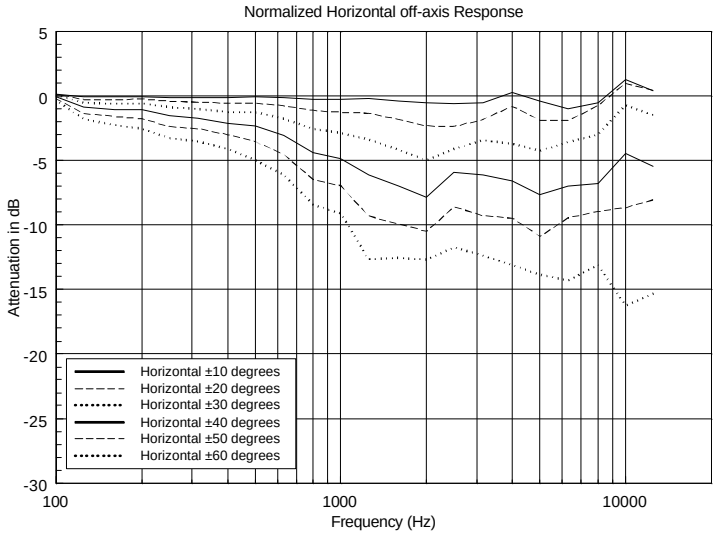
PHYSICAL

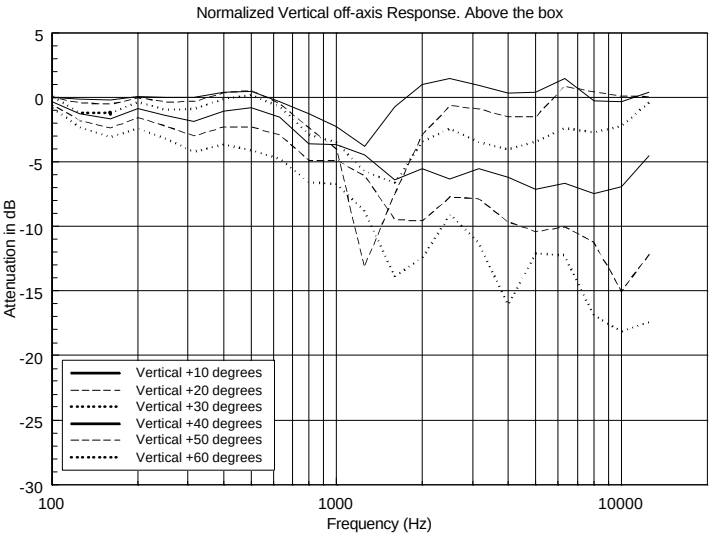
Cabinet:	Composite PP
Dimensions (HxWxD):	26.77" x 15.94" x 13.58" (680x405x345 mm)
Weight:	52.91 lbs. (24 kg)
Hardware:	4 M10 flying points
Handles:	2 side, 1 top
Pole Mount / Cap:	yes
Colour:	Antrhracyte gray

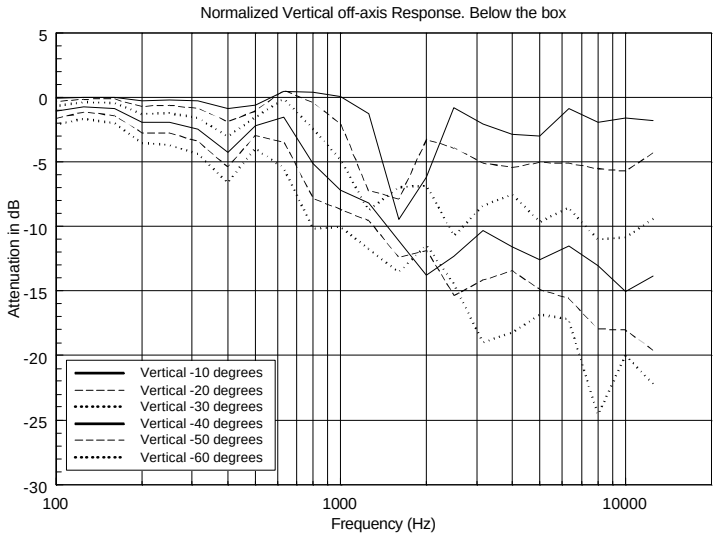

Response 1W/1m
dB SPL
110
100
90
80
70
60
20
100
1000
10000
Frequency (Hz)


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

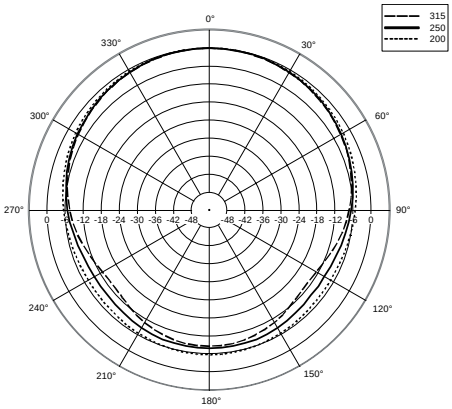

Directivity Index and Q
Total Q
100
10
1
100
1000
10000
Frequency (Hz)

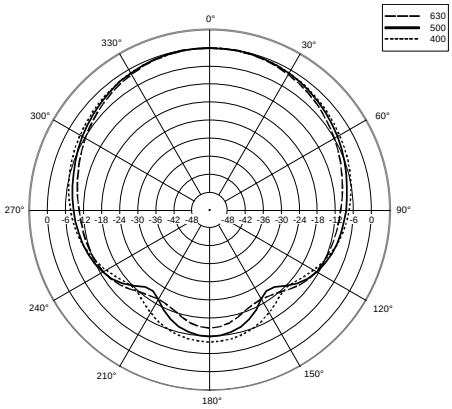

Normalized Horizontal off-axis Response
Attenuation in dB
5
0
-5
-10
-15
-20
-25
-30
Horizontal ±10 degrees
Horizontal ±20 degrees
Horizontal ±30 degrees
Horizontal ±40 degrees
Horizontal ±50 degrees
Horizontal ±60 degrees
100
1000
10000
Frequency (Hz)

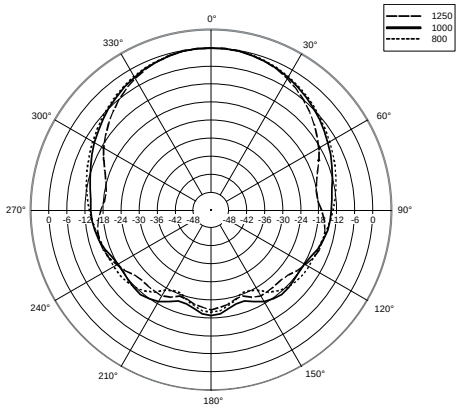

Normalized Vertical off-axis Response. Above the box
Attenuation in dB
5
0
-5
-10
-15
-20
-25
-30
Vertical +10 degrees
Vertical +20 degrees
Vertical +30 degrees
Vertical +40 degrees
Vertical +50 degrees
Vertical +60 degrees
100
1000
10000
Frequency (Hz)

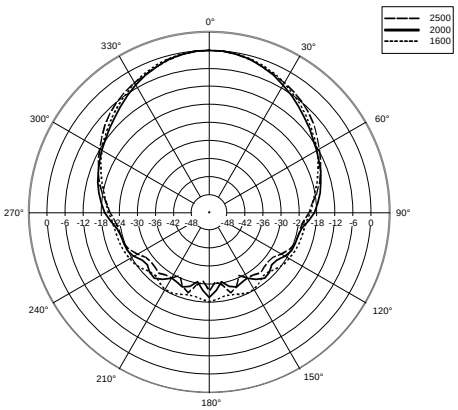

Normalized Vertical off-axis Response. Below the box
Attenuation in dB
5
0
-5
-10
-15
-20
-25
-30
Vertical -10 degrees
Vertical -20 degrees
Vertical -30 degrees
Vertical -40 degrees
Vertical -50 degrees
Vertical -60 degrees
100
1000
10000
Frequency (Hz)

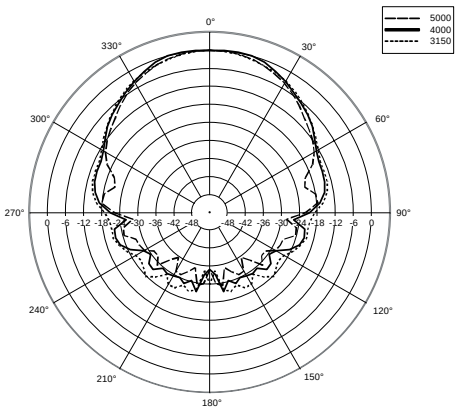
Horizontal 1/3 Polar Plot

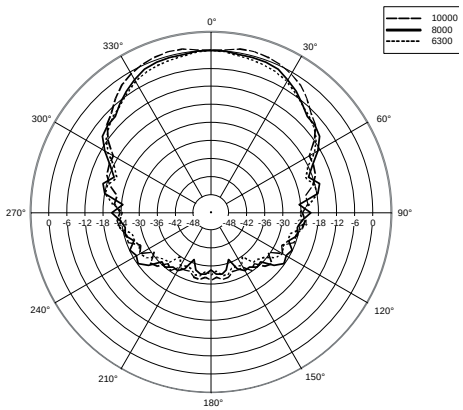




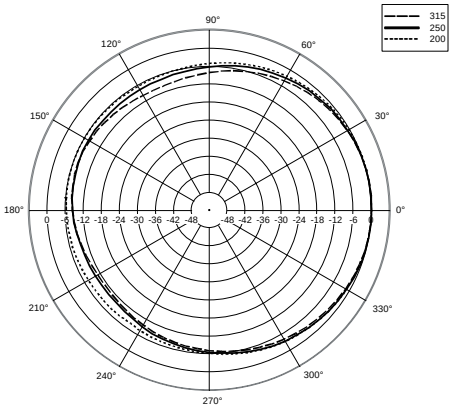


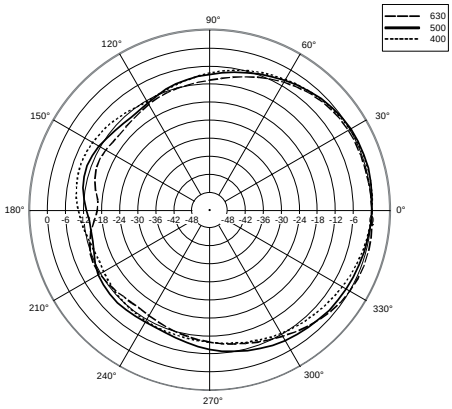


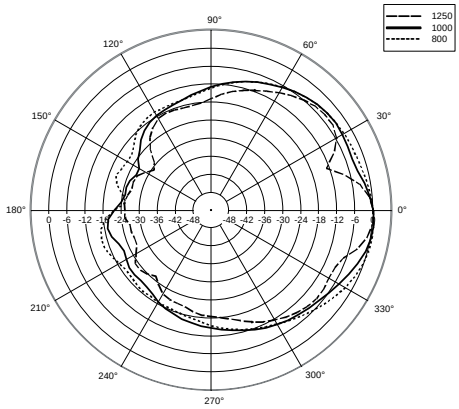


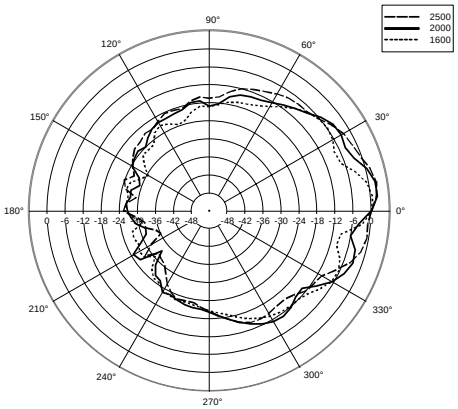


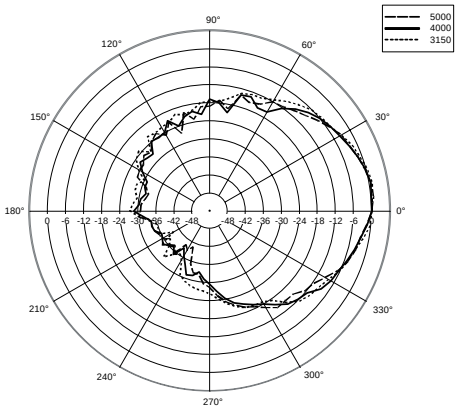
Vertical 1/3 Polar Plot

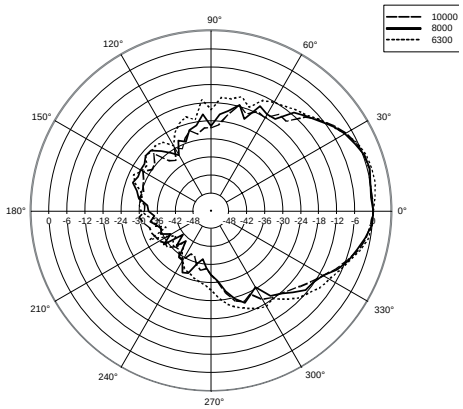












CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS “A&E SPECIFICATIONS”)
The following are “Part 2 Products” CSI-type specifications. It is assumed that “Part 1 General – Administrative and Procedures” and “Part 3 Execution – Installation and Maintenance” are part of 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 325A

2.02 Design

Configuration	Compact 2 way speaker
LF Sub-section	15” high power woofer, 75mm inside/outside aluminium coil
HF Sub-section	2” neodymium

2.03 Acoustical Proprieties

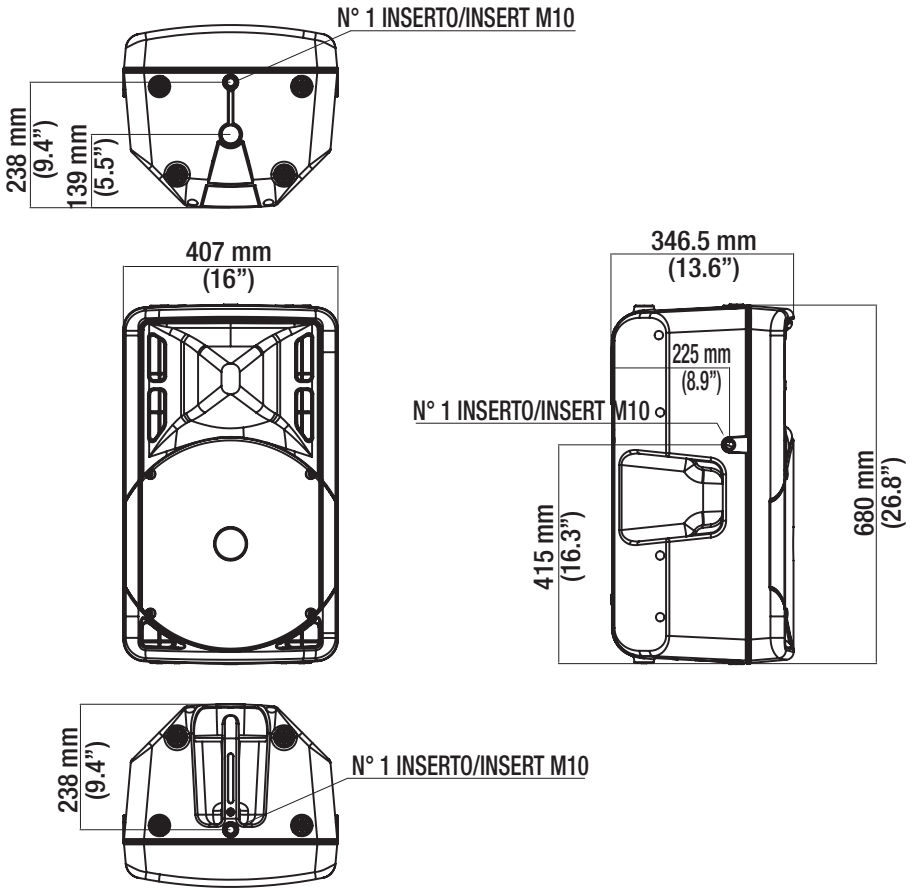
Nominal dispersion angle:	Horizontal: 90° - Vertical: 60°
Axial frequency range:	45Hz-20kHz

2.04 Physical Properties

Cabinet:	Composite PP
Rigging inserts:	4 M10 fly points and built in pole mount adaptor
Color:	Anthracyte 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:	52.91 lbs. (24 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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