4PROSERIES

ACTIVE SPEAKER

4PRO 3001-A

RCF 4PRO 3001-A is an active, wide dispersion 2 way sound reinforcement speaker. It integrates a high power 350 Watt amplifier, with complete electronic processor section and RCF low distortion, high power transducers. The result is a robust, high efficiency accurate system, producing unparalled clarity and transparency for 15" and 1" 2 way speakers. The new 15" inch woofer is the result of the latest refinement in years of RCF experience in compact 2 way speaker applications, resulting in an accurate reproduction of the midbass frequency range and a tight extended bass. The compression driver uses a new 1.5" titanium dome in front of a low compression, optimised geometry, radial phase plug. This innovative design is powered from a high flux neodymium magnet and offers a very open and natural midrange sound and an 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 and Jack 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 Baltic birch plywood enclosure where high density polystyrene end caps guarantee the maximum strength. Woofer and horn are protected from a full front, strong, powder coated, metal grille. The cabinet features three M10 threaded fly points, a 35 mm stand adaptor, two side handles for easy portability.

Applications

- Sound Reinforcement Systems
- Band and Vocal PA
- DJ PA Systems
- Small Venue Main PA

Features

- 400 watt Monolithic bi-amplification, 350 watt low frequency and 50 watt high frequency power
- 130 dB max SPL
- Wide dispersion, 80 x 60 low distortion, constant directivity horn
- 15" 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
- Baltic birch cabinet with 2 side handles for easy transportation and positioning
- Three M10 fly points and stand socket
- Optional remote control

ACOUSTICAL SPECIFICATIONS

Frequency response:	45 - 20 Khz
Max SPL:	130 dB
Coverage angle:	80° x 60°
Compression driver:	neo 1"
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

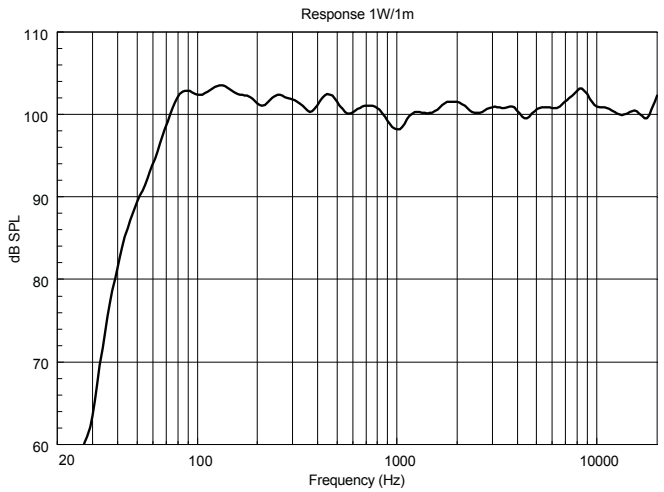
Crossover frequencies:	1800 Hz
Protections:	DC / short cir.
Limiter:	fast limiter
Master volume:	yes
Music / Voice eq:	yes
Remote control option:	yes

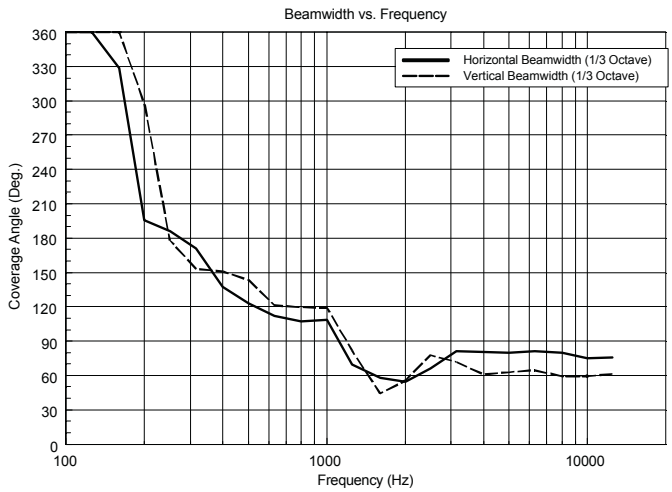
AMPLIFIER

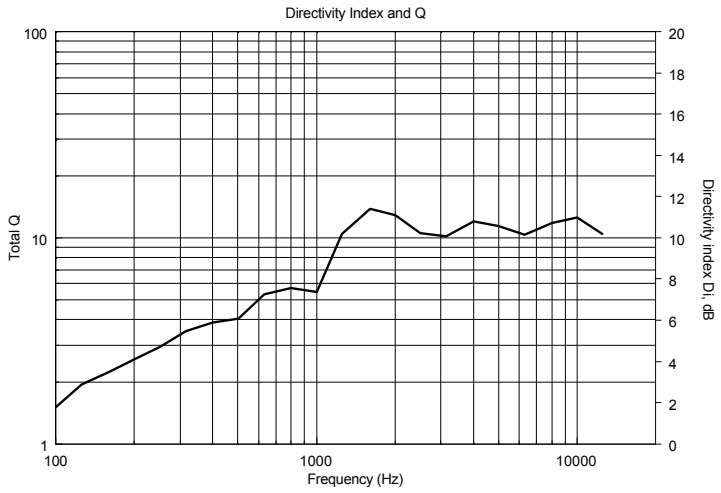
Nominal power:	400 Watt
High frequencies:	ab / 50 Watt
Low frequencies:	H / 350 Watt
Cooling:	Forced

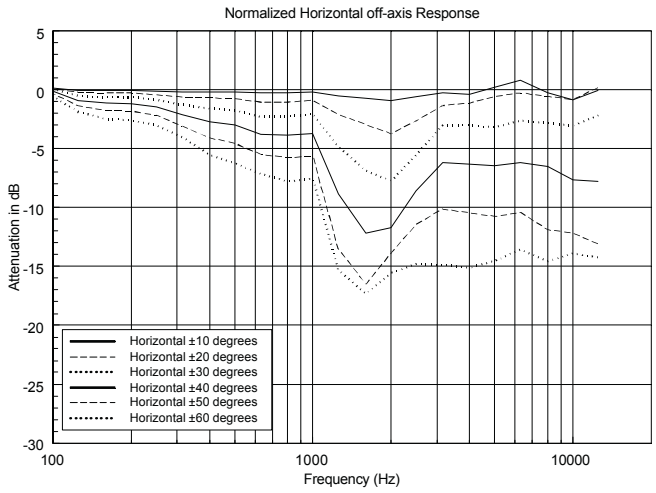
PHYSICAL

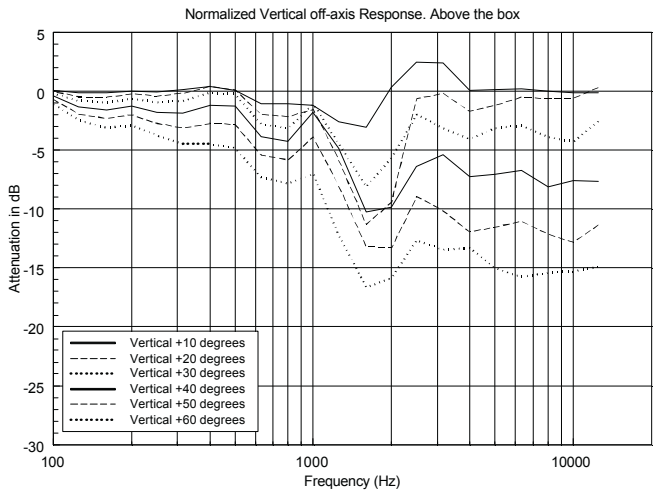
Cabinet:	Baltic Birch
Dimensions (HxWxD):	31.69" x 17.91" x 18.50" (805x455x470 mm)
Weight:	72.75 lbs. (33 kg)
Hardware:	3 M10 flying points
Handles:	2 side
Pole Mount / Cap:	yes
Colour:	Black

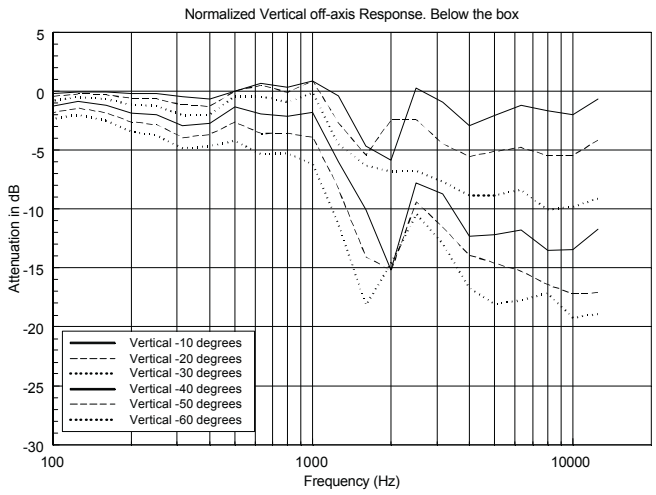

Response 1W/1m
dB SPL
Frequency (Hz)


Beamwidth vs. Frequency
Horizontal Beamwidth (1/3 Octave)
Vertical Beamwidth (1/3 Octave)
Coverage Angle (Deg.)
Frequency (Hz)

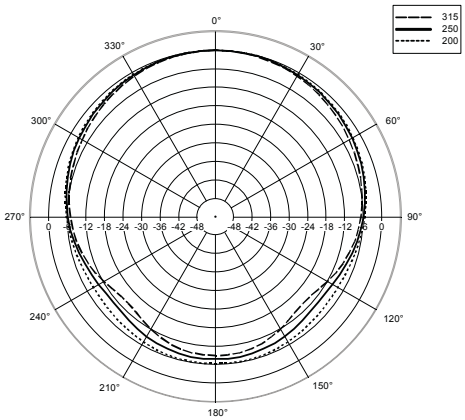

Directivity Index and Q
Total Q
Directivity index Di, dB
Frequency (Hz)

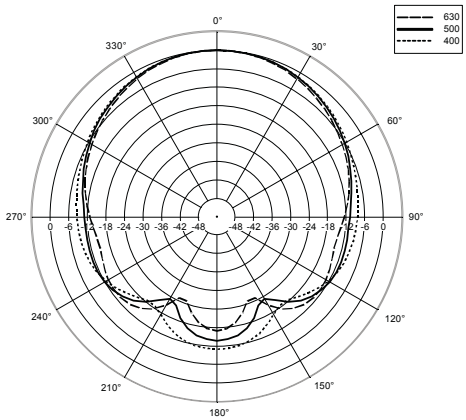

Normalized Horizontal off-axis Response
Horizontal ±10 degrees
Horizontal ±20 degrees
Horizontal ±30 degrees
Horizontal ±40 degrees
Horizontal ±50 degrees
Horizontal ±60 degrees
Attenuation in dB
Frequency (Hz)

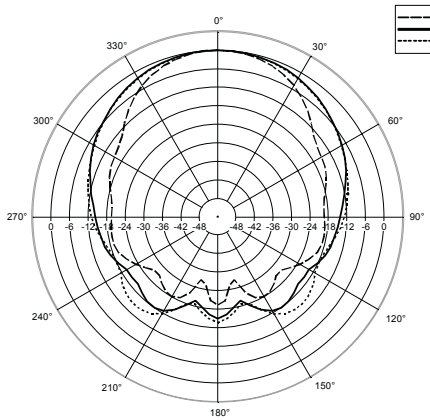

Normalized Vertical off-axis Response. Above the box
Vertical +10 degrees
Vertical +20 degrees
Vertical +30 degrees
Vertical +40 degrees
Vertical +50 degrees
Vertical +60 degrees
Attenuation in dB
Frequency (Hz)

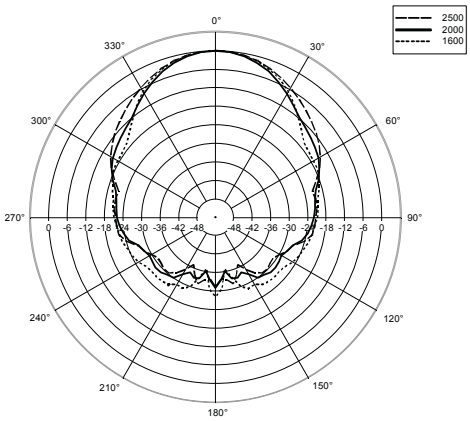

Normalized Vertical off-axis Response. Below the box
Vertical -10 degrees
Vertical -20 degrees
Vertical -30 degrees
Vertical -40 degrees
Vertical -50 degrees
Vertical -60 degrees
Attenuation in dB
Frequency (Hz)

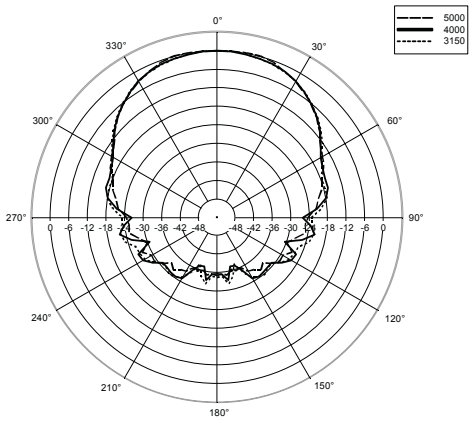
Horizontal 1/3 Polar Plot

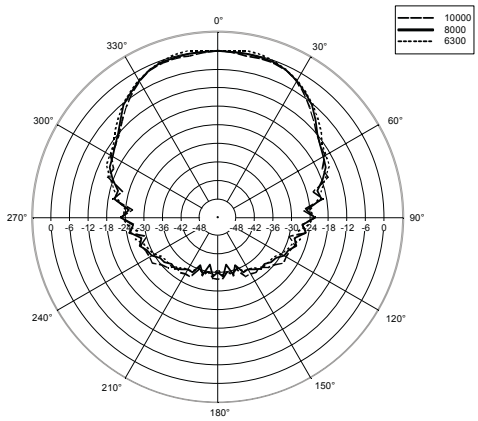




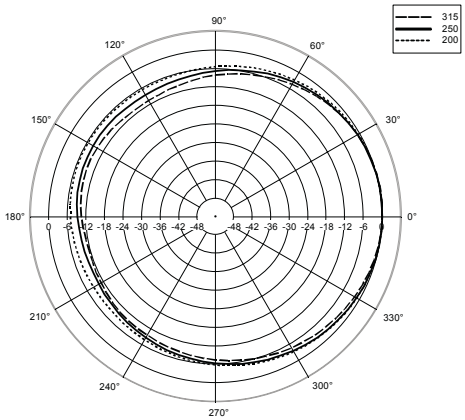


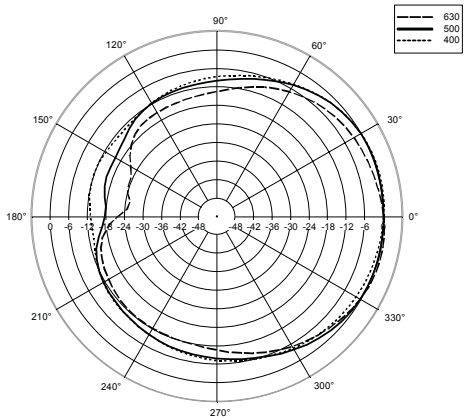


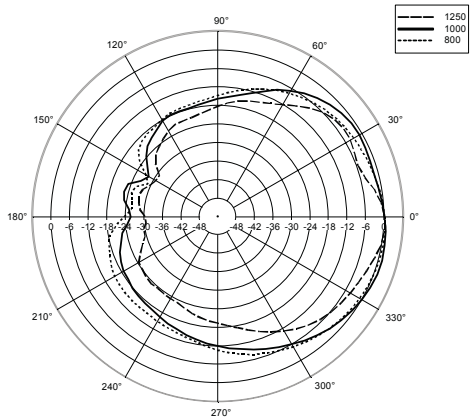


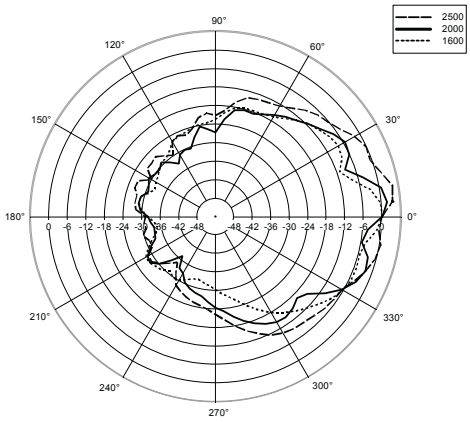


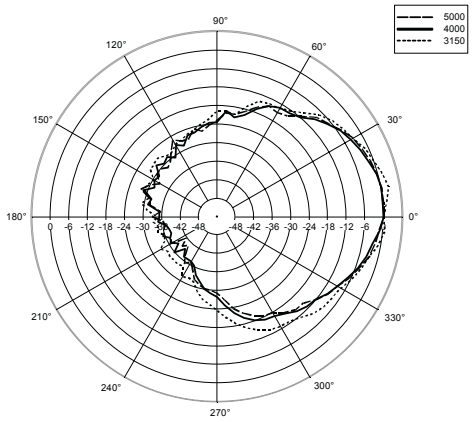
Vertical 1/3 Polar Plot

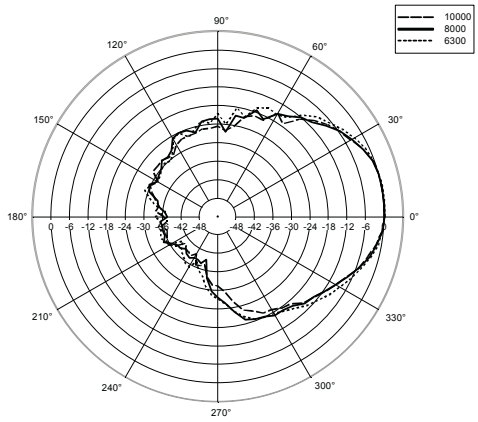












CSI PRODUCT SPECIFICATIONS FOR DESIGNERS, SPECIFIERS, AND CONSULTANTS (ALSO KNOWN AS “A&E SPECIFICATIONS”)
The following are “Part 2 Products” CSI-type specifications. It is assumed that “Part 1 General – Administrative and Procedures” and “Part 3 Execution – Installation and Maintenance” are part of 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: 4PRO 3001-A

2.02 Design

Configuration	2 way speaker
LF Sub-section	15” woofer, 64 mm edge wound aluminium coil
HF Sub-section	1” neodymium

2.03 Acoustical Proprieties

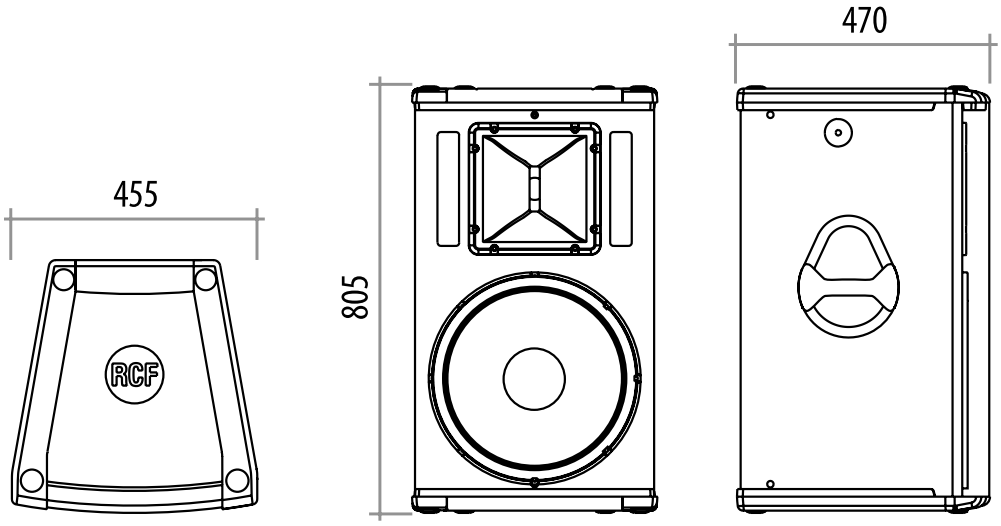
Nominal dispersion angle:	Horizontal: 80° - Vertical: 60°
Axial frequency range:	45Hz-20kHz

2.04 Physical Properties

Cabinet:	Baltic birch
Rigging inserts:	3 M10 fly points and built in pole mount adaptor
Color:	Black
Grille:	Custom perforated steel grille with open-cell poly fiber backing
Input Connectors:	jack/xlr
Dimensions (H x W x D):	31.69” x 17.91” x 18.50” (805x455x470 mm)
Weight:	72.75 lbs. (33 kg)

2.05 Accessories

ART RC1	Optional infrared remote control for volume, mute and Eq adjustment
AC KP-6001	Kit pair of wood panels for trolley 4PRO 3001/4001/6001
AC WK-FX	Kit No 4 Fixed Castor 80mm/3” Dia Black Wheel with Roller Bearings. Carrying Weight per Wheel 60 Kg/130 lbs.
AC WK-SW	Kit No 4 Swivel Castor, 80mm/3” Dia Black Wheel with Roller Bearings. Carrying Weight per wheel 60 kg/130 lbs.



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