

OWNER MANUAL

C MAX 4110 **C MAX 4112**

FULL RANGE HIGH POWER
NEARFIELD MONITORS



**IMPORTANT NOTES**

Before connecting and using this product, please read this instruction manual carefully and keep it on hand for future reference. This manual is to be considered an integral part of this product and must accompany it when it changes ownership as a reference for correct installation and use as well as for the safety precautions. RCF S.p.A. will not assume any responsibility for the incorrect installation and / or use of this product.

WARNING: To prevent the risk of fire or electric shock, never expose this loudspeaker to rain or humidity and also dust.

SAFETY AND OPERATING PRECAUTIONS

1. All the precautions, in particular the safety ones, must be read with special attention, as they provide important information.

2. Loudspeaker lines (amplifier outputs) can have a sufficiently high voltage to involve a risk of electrocution: never install or connect this loudspeaker when amplifiers are switched on.

3. Make sure all connections have been made correctly and the loudspeaker input impedance is suitable for the amplifier output.

4. Protect loudspeaker lines from damage; make sure they are positioned in a way that they cannot be stepped on or crushed by objects.

5. Make sure that no objects or liquids can get into this product, as this may cause a short circuit.

6. Never attempt to carry out any operations, modifications or repairs that are not expressly described in this manual.

Contact your authorized service centre or qualified personnel should any of the following occur:

- **The loudspeaker does not function (or works in an anomalous way).**
- **The cable has been damaged.**
- **Objects or liquids are inside the loudspeaker.**
- **The loudspeaker has been damaged due to heavy impacts or fire.**

7. Should the loudspeaker emit any strange odours or smoke, remove it from the line after having immediately switched the amplifier off.

8. Do not connect this product to any equipment or accessories not foreseen.

For suspended installation, only use the dedicated anchoring points and do not try to hang this loudspeaker by using elements that are unsuitable or not specific for this purpose.

Also check the suitability of the support surface to which the product is anchored (wall, ceiling, structure, etc.), and the components used for attachment (screw anchors, screws, brackets not supplied by RCF etc.), which must guarantee the security of the system / installation over time, also considering, for example, the mechanical vibrations normally generated by transducers.

9. RCF S.p.A. strongly recommends this product is only installed by professional qualified installers (or specialised firms) who can ensure a correct installation and certify it according to the regulations in force.

The entire audio system must comply with the current standards and regulations regarding electrical systems.

IMPORTANT**WARNING**

10. Mechanical and electrical factors need to be considered when installing a professional audio system (in addition to those which are strictly acoustic, such as sound pressure, angles of coverage, frequency response, etc.).

11. Hearing loss

Exposure to high sound levels can cause permanent hearing loss. The acoustic pressure level that leads to hearing loss is different from person to person and depends on the duration of exposure.

To prevent potentially dangerous exposure to high levels of acoustic pressure, anyone who is exposed to these levels should use adequate protection devices.

When a transducer capable of producing high sound levels is being used, it is necessary to wear ear plugs or protective earphones.

See the technical specifications in the instruction manual for the maximum sound pressure the loudspeaker is capable of producing.

12. To ensure a correct sound reproduction, loudspeaker phase is to be respected (loudspeakers are connected respecting the amplifier polarity). This is important when loudspeakers are installed adjacent one another, for instance, in the same room.

13. To prevent inductive effects from causing hum, noise and a bad system working, loudspeaker lines should not be laid together with other electric cables (mains), microphone or line level signal cables connected to amplifier inputs.

14. The loudspeaker cable shall have wires (twisted, if possible, to reduce inductive effects due to surrounding electro-magnetic fields) with a suitable section and a sufficient electrical insulation. Refer to local regulations since there may be additional requirements about cable characteristics.

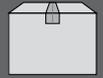
15. Do NOT connect the loudspeaker low impedance (8Ω) input to 100 V constant voltage lines.

16. Install this loudspeaker far from any heat source.

17. Do not overload the loudspeaker with too much power.

18. Do not use solvents, alcohol, benzene or other volatile substances for cleaning the external parts of this product. Use a dry cloth.

DESCRIPTION



C MAX 4112 - FULL RANGE HIGH POWER NEARFIELD MONITOR

The C MAX 4112 is a passive two-way speaker featuring a 12" woofer and a 1" compression driver. It has been specifically voiced as a club system for entertainment. The full-range bass reflex RCF C Max Series is conceived for installation in entertainment and small venues where near field quality and sound pressure is required. That includes karaoke rooms, conference halls, AV installations, public areas and clubs. The high power 12" woofer is designed to provide an excellent frequency response linearity with very low distortion. A strong magnetic structure guarantee dynamic and precision. Rear bass reflex allows a broader extension of low frequencies when the speakers are close to a wall. Small isolating rubber elements placed between the cabinet's edges and the grille avoid unwanted vibration.

C MAX 4110 - FULL RANGE HIGH POWER NEARFIELD MONITOR

C MAX 4110 is a passive two-way speaker featuring a 10" woofer and a 1" compression driver. It has been specifically voiced as a club system for entertainment. The full-range bass reflex RCF C Max Series is conceived for installation in entertainment and small venues where near field quality and sound pressure are required. That includes karaoke rooms, conference halls, AV installations, public areas and clubs. The high power 10" woofer is designed to provide an excellent frequency response linearity with very low distortion. A strong magnetic structure guarantee dynamic and precision. Rear bass reflex allows a broader extension of low frequencies when the speakers are close to a wall. Small isolating rubber elements placed between the cabinet's edges and the grille avoid unwanted vibration.

C MAX FLYING POINTS

Thirteen M10 flying points – 9 on the corners and 4 on the sides.

C MAX FRONT GRILLE

A strong powder-coated metal grille protects the front, and a transparent to sound foam backing on the inside of the grille ensures protection from dust and humidity.

C MAX HI FREQUENCY TRANSDUCERS

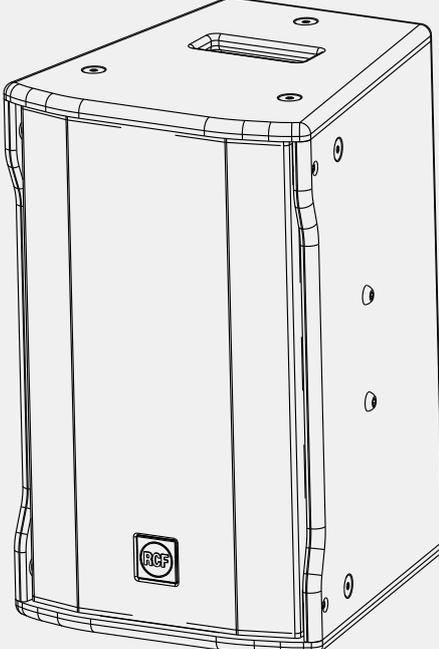
The RCF ND340 is an extremely compact 1" compression driver with 1.75" voice coil for professional applications. Flexible and easy to crossover, it offers high efficiency combined with a very high frequency extension.



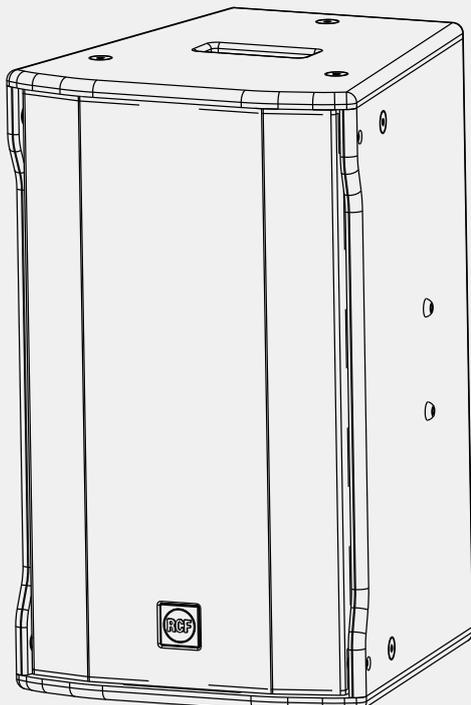
MOUNTING POINTS

For both C MAX, mounting points are 16 total:

- 3 on top
- 3 on bottom
- 8 on sides (4 for each side)
- 2 on back side



C MAX 4110



C MAX 4112

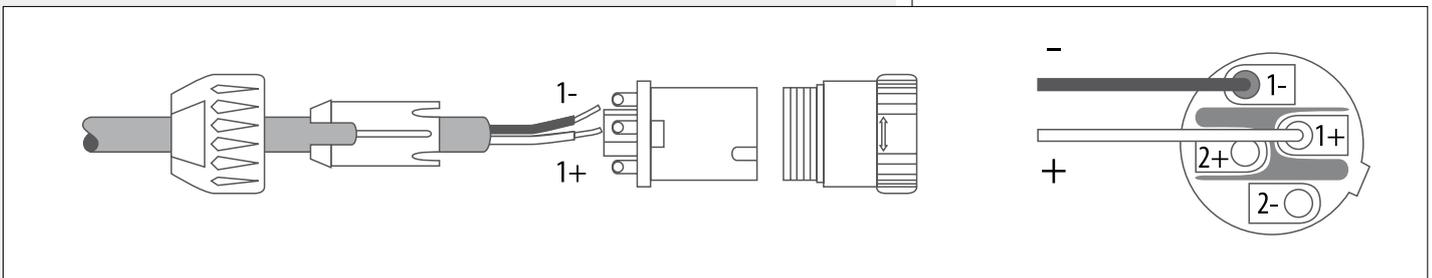
WARNING: loudspeaker connections should be only made by qualified and experienced personnel having the technical know-how or sufficient specific instructions (to ensure that connections are made correctly) in order to prevent any electrical danger. To prevent any risk of electric shock, do not connect loudspeakers when the amplifier is switched on.

Before turning the system on, check all connections and make sure there are no accidental short circuits.

The entire sound system shall be designed and installed in compliance with the current local laws and regulations regarding electrical systems.

'Compact' series loudspeakers are designed for indoor use only. If installed outdoor, loudspeakers shall be protected against water.

The impedance value of each loudspeaker is 8 Ω.



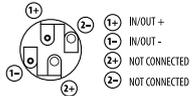
Connect the positive wire (amplifier '+' output) to the pin 1+ of the SPEAKON connector. Connect the negative wire (amplifier '-' output) to the pin 1- of the SPEAKON connector. The pins 2+ and 2- are not used.

Two sockets (input and output, linked in parallel) for 'Neutrik Speakon NL4' (4-pole) plugs are available on every rear panel.



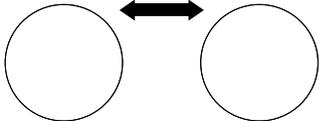
COMPACT SERIES

C-MAX



1+ IN/OUT +
1- IN/OUT -
2+ NOT CONNECTED
2- NOT CONNECTED

INPUT / THROUGH
± 1 IN: 8Ω



MAX POWER 350 WATT

CAUTION: SUSPENDING THIS SYSTEM SHOULD BE DONE BY QUALIFIED RIGGERS FOLLOWING APPROPRIATE SAFETY STANDARDS

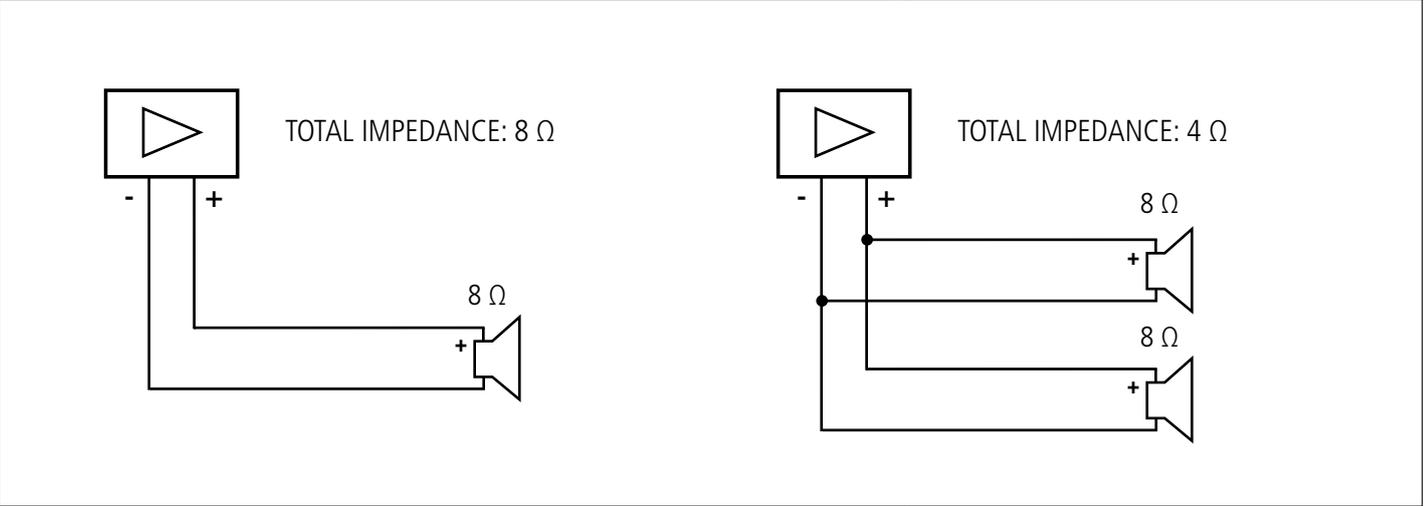
SERIAL NUMBER

RCF S.p.A. Via Raffaello Sanzio, 13
42124 Reggio Emilia - Italy

MADE IN ITALY 

NOTES ABOUT LOW IMPEDANCE CONNECTIONS

- The total loudspeaker impedance must not be lower than the amplifier output impedance. Note: a loudspeaker total impedance equal to the amplifier output one permits to get the maximum deliverable power (but an higher loudspeaker impedance entails less power).
- The total loudspeaker power shall be adequate for the maximum deliverable power of the amplifier.
- The loudspeaker line shall be short (for long distances, it may be necessary to use cables with large cross-section wires).

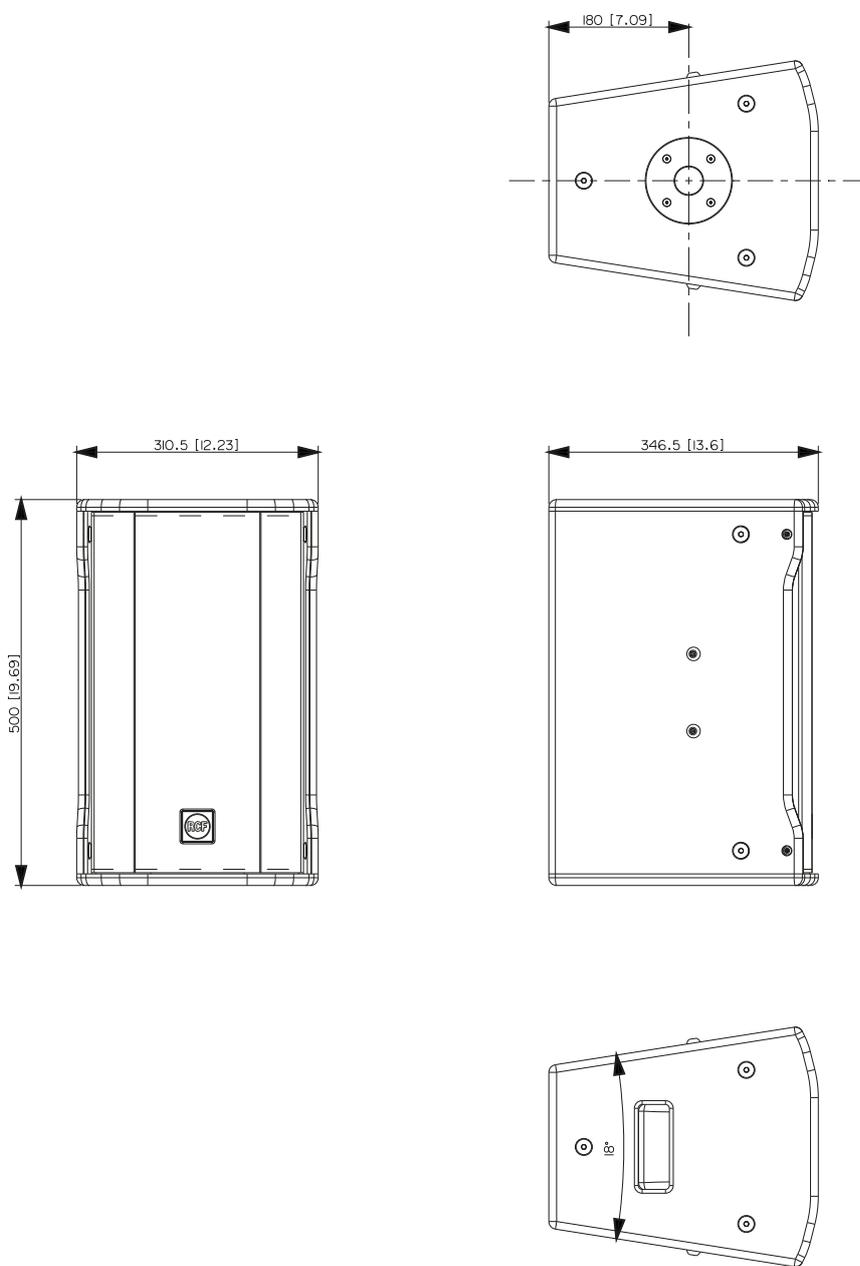


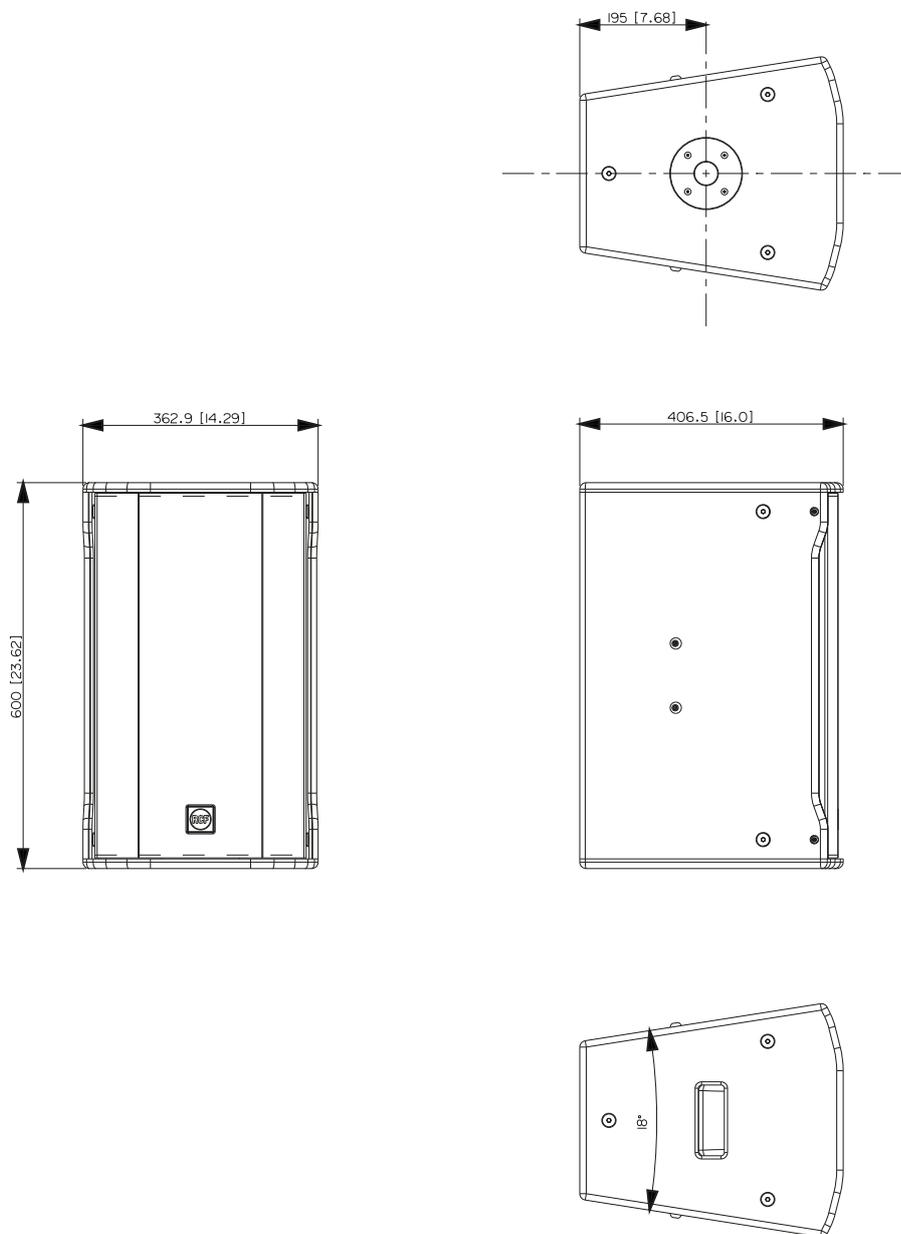
- Always use cables having wires with an adequate cross-section, considering the cable length and the total loudspeaker power.
- Loudspeaker lines must be kept separated from the mains cables, microphone cables or others, in order to avoid inductive phenomena may cause hum or noises.
- Use loudspeaker cables with twisted wires to reduce hum caused by inductive effects due to coupling with electromagnetic fields.
- Do NOT connect the low impedance input directly to 70 / 100 V constant voltage lines.



	C MAX 4110	C MAX 4112
Frequency Response	65 - 20000 Hz	60 - 20000 Hz
Spl 1W/1M dB	97	98
Horizontal Coverage	90°	90°
Vertical Coverage	70°	70°
Directivity Factor Q	11	11
Max Spl	128 dB	130 dB
Nominal Impedance	8 ohm	8 ohm
Power Handling	350 W	400 W
Peak Power Handling	1400 W	1600 W
Reccomended Amplifier	700 W	800 W
Crossover Frequency	1800 Hz	1800 Hz
Compression Driver	1.0" neo, 1.75 v.c. 60 W 106 dB	1.0" neo, 1.75 v.c. 60 w 106 dB
Woofers	10", 2.5" v.c. 350 W 97 dB	12", 3" v.c. 400 W 98 dB
Input Connectors	speakon	speakon
Output Connectors	speakon	speakon
Protections	bulb lamp	bulb lamp
Cabinet Material	birch plywood	birch plywood
Hardware		
Handles	1 top	1 top
Colour	black	black
Height	500 / 19,7 mm/inch	600 / 23,6 mm/inch
Width	310,5 / 12,23 mm/inch	363 / 14,3 mm/inch
Depth	346,5 / 13,64 mm/inch	406,5 / 16,0 mm/inch
Net Weight	15,5 kg	24,5 kg

C MAX 4110 DIMENSIONS





www.rcf.it



RCF SpA: Via Raffaello, 13 - 42124 Reggio Emilia - Italy
tel. +39 0522 274411 - fax +39 0522 274484 - e-mail: rcfservice@rcf.it

10307585 Rev A