

# OWNER MANUAL MANUALE D'USO

**S 5012**

- MEDIA series subwoofers

**S 5020**

- Subwoofer della serie MEDIA

**S 5022**





### 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 and 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 NOTES



- 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).
- 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.
- 15.** Do NOT connect the loudspeaker low impedance 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.

RCF S.p.A. thanks you for purchasing this product, which has been designed to guarantee reliability and high performance.

## DESCRIPTION

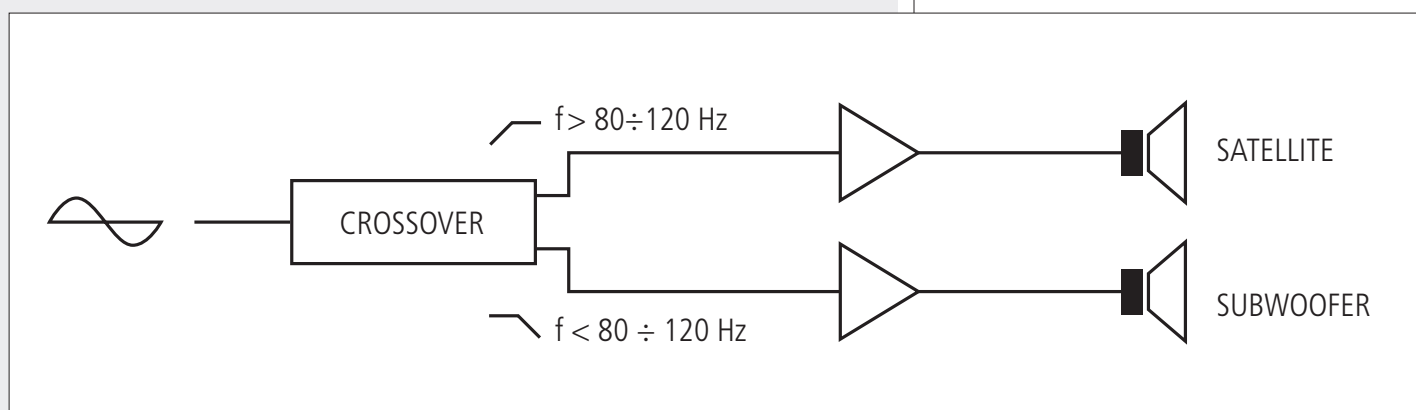


The new 'Media' series includes a wide range of high quality passive loudspeakers for fixed installations (2-way satellites and subwoofers) and is the ideal solution for small to medium halls.

Subwoofers are dedicated for very low frequencies only, so these are to be used with 'satellite' loudspeakers.

Separate amplification and an external crossover are needed. The suggested crossover frequency range (cutoff between subwoofer and satellite) is 80 Hz to 120 Hz.

### EXAMPLES OF A BI-AMPLIFIED SYSTEM



This manual concerns 3 subwoofer modes:

- **S 5012** with a 12" woofer (2.5" voice coil)
- **S 5020** with two 10" woofers (2.5" voice coil)
- **S 5022** with two 12" woofers (2.5" voice coil).

The front grilles are made of steel with a robust double mesh polyester clothing.  
The front RCF logo is easily rotatable.

On its top, there is a M 20 threaded insert for a pole mount (for a satellite loudspeaker).  
All models have a 4-pin EUROBLOCK connector (audio input and parallel link output).



MEDIA subwoofers shall be placed on the floor (on a place surface).

Satellite loudspeakers are to be installed securely by qualified personnel, respecting all safety standards. Make sure the support structure (walls / ceilings) has the necessary mechanical characteristics for the loudspeaker weight, without the risk of a fall that could damage things or cause an injury. Use attachments elements suitable for walls / ceilings (e.g. wall plugs for bricks, for concrete, etc.).



# CONNECTIONS



**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.

'Media' series loudspeakers are designed for indoor use only.

If installed outdoor, loudspeakers shall be protected against water.

The impedance of each subwoofer is (according to the model):

8 Ω (S 5012), 4 Ω (S 5020, S 5022).

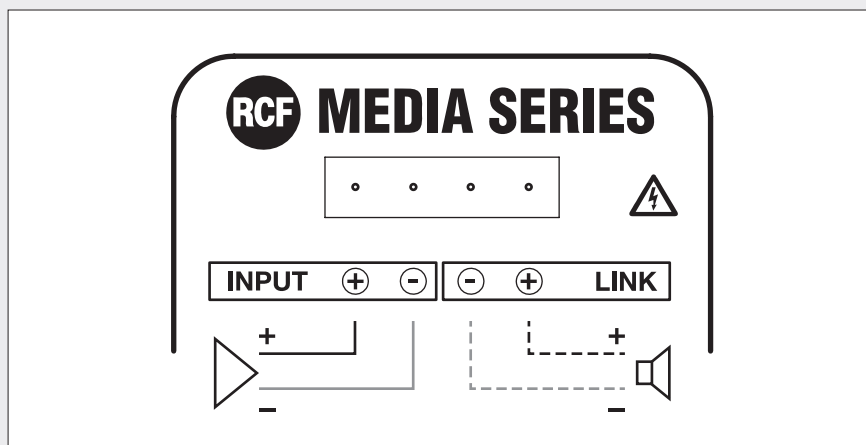
The total impedance of multiple identical subwoofers linked in parallel on the same line is given by the impedance value of a single subwoofer divided by their quantity (impedance / quantity).

For example:

- The total impedance of two S 5012 linked in parallel is 4 Ω (8 Ω / 2)
- The total impedance of two S 5020 or S 5022 linked in parallel is 2 Ω (4 Ω / 2).

Connect the positive wire (amplifier '+' output) to the pin 'INPUT +' of the 4-pin EUROBLOCK connector. Connect the negative wire (amplifier '-' output) to the pin 'INPUT -' of the 4-pin EUROBLOCK connector.

The 'LINK +' and 'LINK -' pins are useful to link another subwoofer in parallel.



## NOTES ABOUT LOW IMPEDANCE CONNECTIONS



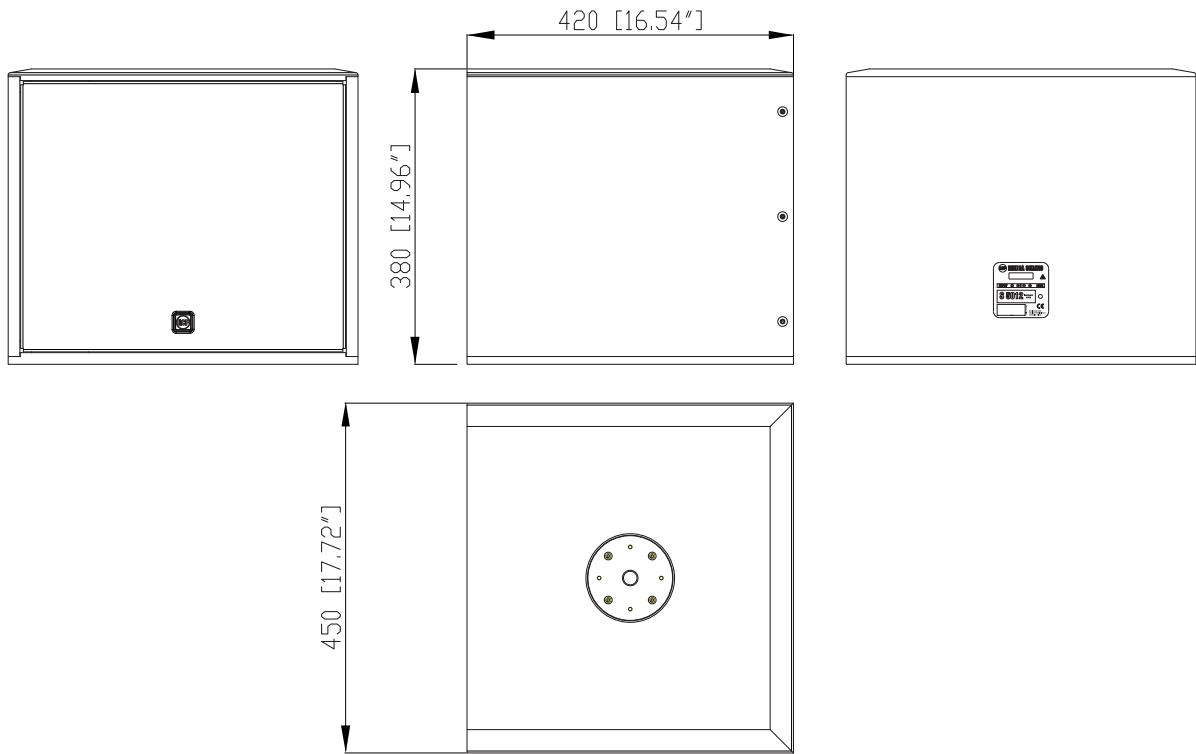
- The total loudspeaker impedance must not be lower than the amplifier output impedance. Note: a loudspeaker total impedance equal to the amplifier output one permits to get the maximum deliverable power (but an higher loudspeaker impedance entails less power).
- The total loudspeaker power shall be 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.

## SPECIFICATIONS

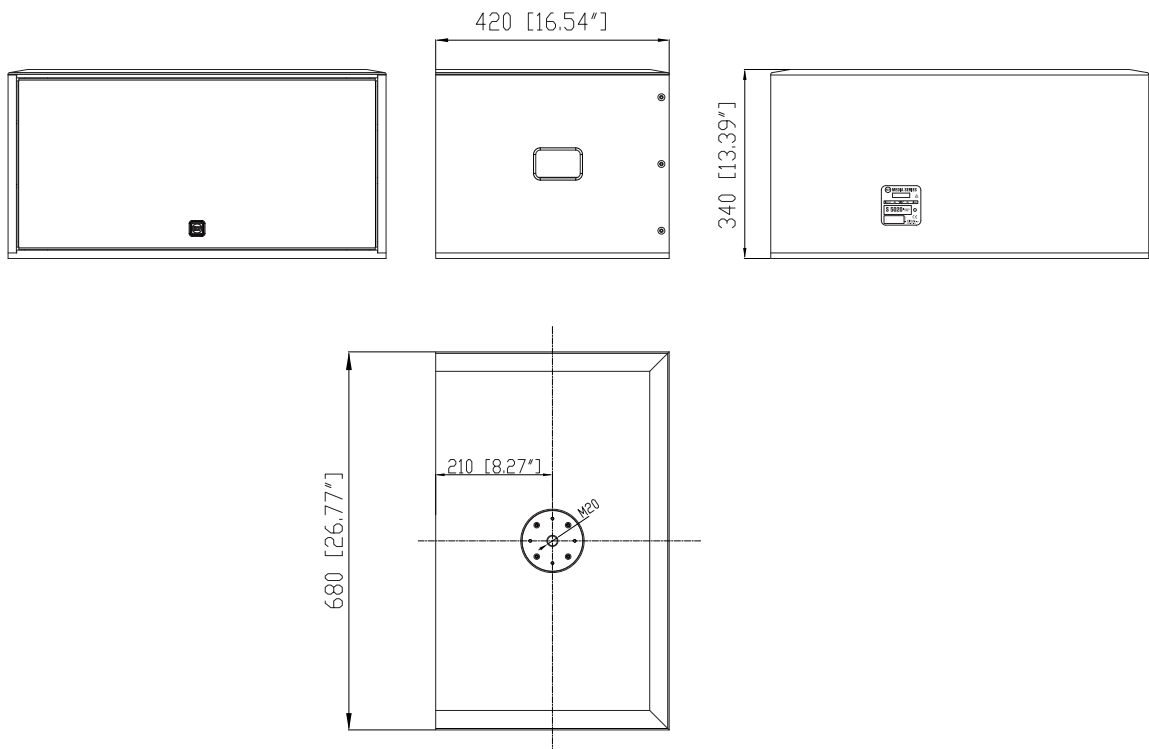


MODEL	S 5012	S 5020	S 5022
<b>SYSTEM</b>			
FREQUENCY RANGE	50 ÷ 200 Hz	50 ÷ 200 Hz	50 ÷ 200 Hz
IMPEDANCE	8 Ω	4 Ω	4 Ω
POWER (RMS)	300 W	500 W	600 W
POWER (peak)	1200 W	2000 W	2400 W
RECOMMENDED AMPLIFIER	600 W	1000 W	1200 W
SENSITIVITY (1 W, 1m)	96 dB	98 dB	99 dB
MAX. SOUND PRESSURE LEVEL (peak power, 1 m)	127 dB	131 dB	133 dB
<b>TRANSDUCERS</b>			
WOOFER	12" (2.5" voice coil)	2 x 10" (2.5" voice coil)	2 x 12" (2.5" voice coil)
SINGLE WOOFER IMPEDANCE	8 Ω	8 Ω	8 Ω
WOOFER POWER	300 W (AES) 600 W (program)	250 W (AES) 500 W (program)	300 W (AES) 600 W (program)
WOOFER SENSITIVITY (1 W, 1 m)	96 dB	95 dB	96 dB
<b>PHYSICAL CHARACTERISTICS</b>			
CABINET	Rectangular, made of MDF (15 mm)		
THREADED INSERT	M 20 (for pole mount)		
COLOUR	Black		
GRILLE	Steel painted fabric covered with perforated bilayer polyurethane		
INPUT CONNECTOR	4-pin EUROBLOCK		
DIMENSIONS (w, h, d)	450, 380, 420 mm	680, 340, 420 mm	868, 380, 420 mm
NET WEIGHT	18.2 kg (40.1 lbs)	28.2 kg (62.2 lbs)	33.2 kg (73.2 lbs)

S 5012

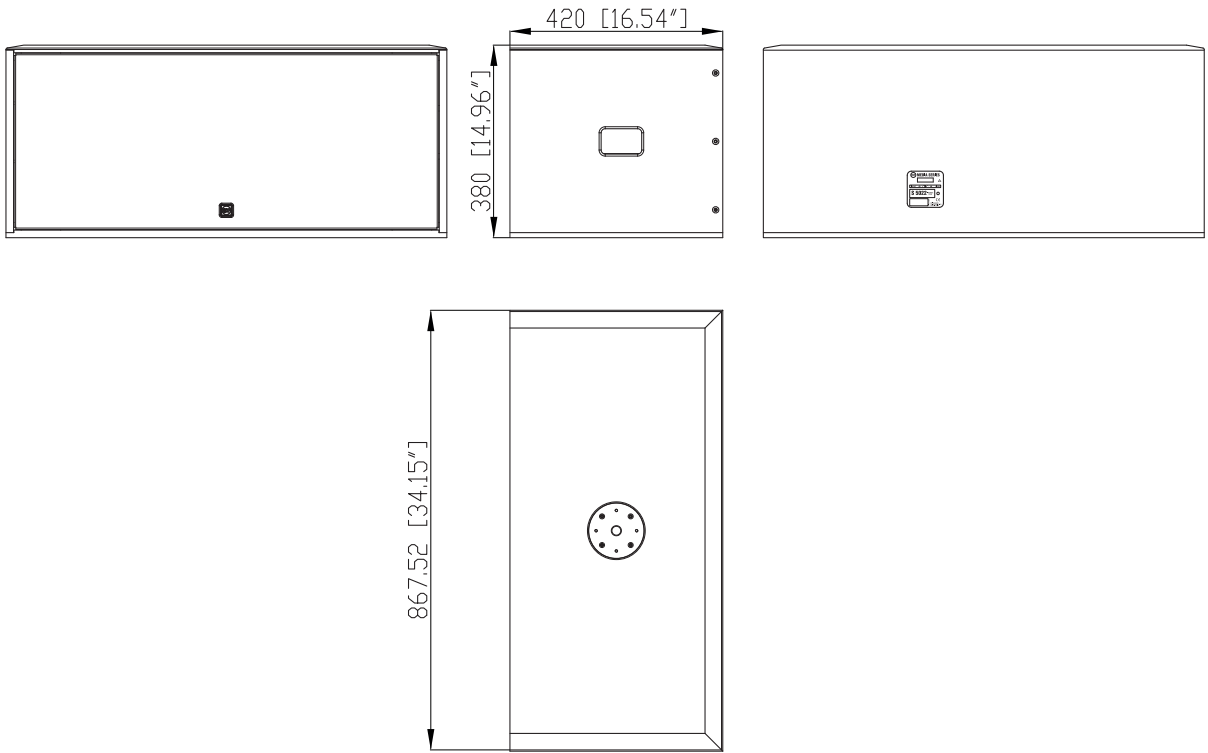


S 5020



DIMENSIONS mm

S 5022





Except possible errors and omissions.  
RCF S.p.A. reserves the right to make modifications without prior notice.

Salvo eventuali errori ed omissioni.  
RCF S.p.A. si riserva il diritto di apportare modifiche senza preavviso.

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