



## RCF COMPACT M SERIES Two Way Speakers Owner's Manual

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Owner's Manual**








**COMPACT M SERIES**  
**TWO WAY SPEAKERS**

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## **SAFETY PRECAUTIONS AND GENERAL INFORMATION**

The symbols used in this document give notice of important operating instructions and warnings which must be strictly followed.

	CAUTION	Important operating instructions: explains hazards that could damage a product, including data loss
	WARNING	Important advice concerning the use of dangerous voltages and the potential risk of electric shock, personal injury or death.
	IMPORTANT NOTES	Helpful and relevant information about the topic
	SUPPORTS, TROLLEYS AND CARTS	Information about the use of supports, trolleys, and carts. Reminds us to move with extreme caution and never tilt.
	WASTE DISPOSAL	This symbol indicates that this product should not be disposed of with your household waste, according to the WEEE directive (2012/19/EU) and your national law.



### IMPORTANT NOTES

This manual contains important information about the correct and safe use of the device. Before connecting and using this product, please read this instruction manual carefully and keep it on hand for future reference. The 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 will not assume any responsibility for the incorrect installation and/or use of this product.

## SAFETY PRECAUTIONS

- All the precautions, in particular the safety ones, must be read with special attention, as they provide important information.
- The power supply from mains and The mains voltage is sufficiently high to involve a risk of electrocution; install and connect this product before plugging it in.
  - Before powering up, make sure that all the connections have been made correctly and the voltage of your mains corresponds to the voltage shown on the rating plate on the unit, if not, please contact your RCF dealer.
  - The metallic parts of the unit are earthed through the power cable. An apparatus with CLASS I construction shall be connected to a mains socket outlet with a protective earthing connection. Protect the power cable from damage; make sure it is positioned in a way that it cannot be stepped on or crushed by objects.
  - To prevent the risk of electric shock, never open this product: there are no parts inside that the user needs to access.

Be careful: in the case of a product supplied by the manufacturer only with POWER CON connectors and without a power cord, jointly to POWER CON connectors type NAC3FCA (power-in) and NAC3FCB (power-out), the following power cords compliant to the national standard shall be used:

  - EU: cord type H05VV-F 3G 3×25 mm<sup>2</sup>- Standard IEC 60227-1
  - JP: cord type VCTF 3×2 mm<sup>2</sup>; 15Amp/120V~ – Standard JIS C3306
  - US: cord type SJT/SJTO 3×14 AWG; 15Amp/125V~ – Standard ANSI/UL 62
- Make sure that no objects or liquids can get into this product, as this may cause a short circuit. This apparatus shall not be exposed to dripping or splashing. No objects filled with liquid, such as vases, shall be placed on this apparatus. No naked sources (such as lighted candles) should be placed on this apparatus.
- Never attempt to carry out any operations, modifications, or repairs that are not expressly described in this manual. Contact your authorized service center or qualified personnel should any of the following occur:

- The product does not function (or functions in an anomalous way).
  - The power cable has been damaged.
  - Objects or liquids have got in the unit.
  - The product has been subject to a heavy impact.
5. If this product is not used for a long period, disconnect the power cable.
  6. If this product begins emitting any strange odors or smoke, switch it off immediately and disconnect the power cable.
  7. 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 product 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. To prevent the risk of falling equipment, do not stack multiple units of this product unless this possibility is specified in the user manual.
  8. RCF S.p.A. strongly recommends this product is only installed by professional qualified installers (or specialized firms) who can ensure 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.
  9. Supports, trolleys, and carts.



The equipment should be only used on supports, trolleys, and carts, where necessary, that are recommended by the manufacturer. The

equipment / support / trolley/cart assembly must be moved with extreme caution. Sudden stops, excessive pushing force, and uneven floors may cause the assembly to overturn. Never tilt the assembly.

10. There are numerous mechanical and electrical factors 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, therefore, necessary to wear earplugs or protective earphones. See the manual technical specifications to know the maximum sound pressure level.

## OPERATING PRECAUTIONS

- Place this product far from any heat sources and always ensure adequate air circulation around it.
- Do not overload this product for a long time.
- Never force the control elements (keys, knobs, etc)
- Do not use solvents, alcohol, benzene or other volatile substances for cleaning the external parts of this product.



### IMPORTANT NOTES

To prevent the occurrence of noise on line signal cables, use screened cables only and avoid putting them close to:

- Equipment that produces high-intensity electromagnetic fields

- Power cables
- Loudspeaker lines



**WARNING! CAUTION!** To prevent the risk of fire or electric shock, never expose this product to rain or humidity.



**WARNING!** To prevent electric shock hazards, do not connect to the mains power supply while the grille is removed



**WARNING!** to reduce the risk of electric shock, do not disassemble this product unless you are qualified. Refer servicing to qualified service personnel.

## CORRECT DISPOSAL OF THIS PRODUCT



This product should be handed over to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, or your household waste disposal service.

## CARE AND MAINTENANCE

To ensure a long-life service, this product should be used following this advice:

- If the product is intended to be set up outdoors, be sure it is under cover and protected from rain and moisture.
- If the product needs to be used in a cold environment, slowly warm up the voice coils by sending a low-level signal for about 15 minutes before sending high-power signals.
- Always use a dry cloth to clean the exterior surfaces of the speaker and always do it when the power is turned off.



**CAUTION:** to avoid damaging the exterior finishes do not use cleaning solvents or abrasives.



**WARNING! CAUTION!** For powered speakers, do cleaning only when the power is turned off.

RCF S.p.A. reserves the right to make changes without prior notice to rectify any errors and/or omissions. Always refer to the latest version of the manual on [www.rcf.it](http://www.rcf.it).

## DESCRIPTION

### COMPACT M SERIES

The Compact Media series includes a wide range of high-quality 2-way passive loudspeakers for fixed installations and is the ideal solution for small to medium size projects

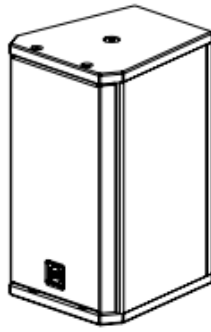
This series covers 6 models. Models from M 06 to M 12 are equipped with a high power handling 'Low Impedance Compensated Crossover', having electronic protection for the driver. The front grilles are made of steel and the front RCF logo is easily rotatable. Several rigging points are available on each model, in order to match with any application needs.

All models have a 4-pin EUROBLOCK connector (audio input and parallel link output).



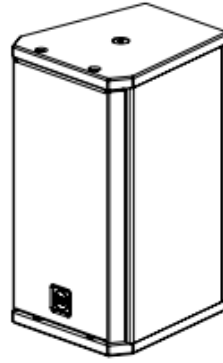
### M 04

4" Woofer  
1" Neo Dome Tweeter  
Directivity H 120° x V 120°



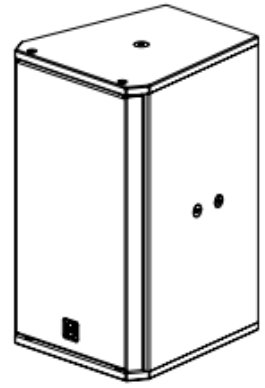
### M 05

5" Woofer  
1" Neo Dome Tweeter  
Directivity H 120° x V 80°



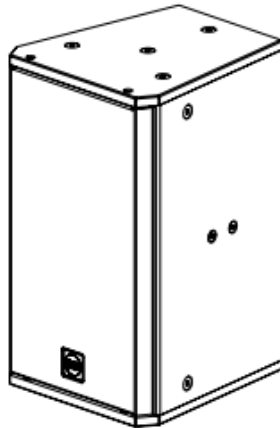
### M 06

6" Woofer  
1" Neo Dome Tweeter  
Directivity H 120° x V 80°



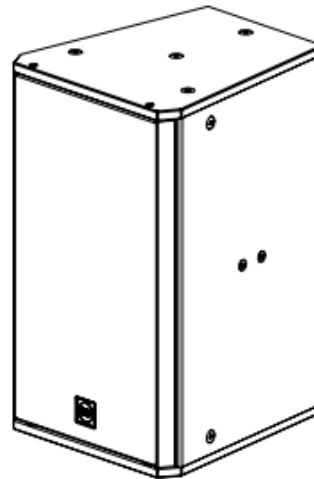
### M 08

8" Woofer  
1.4" Compression Driver  
Directivity H 90° x V 70°



### M 10

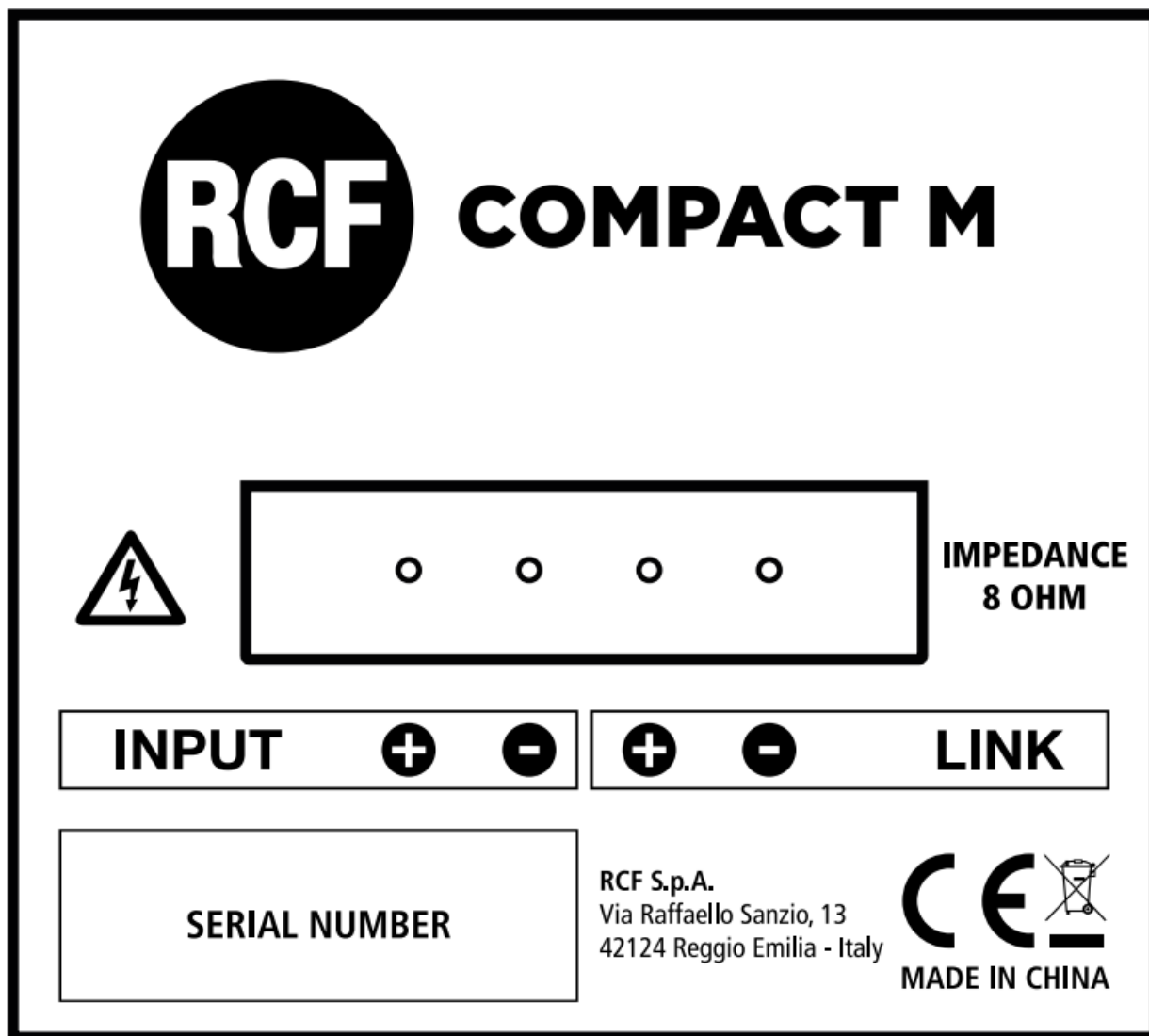
10" Woofer  
1.4" Compression Driver  
Directivity H 90° x V 70°





### M 12

12" Woofer  
1.4" Compression Driver  
Directivity H 90° x V 70°

## CONNECTIONS





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 loudspeaker in parallel.  
The impedance value of each loudspeaker is 8  $\Omega$ .

  **WARNING! CAUTION!** Loudspeaker connections should be only made by qualified and experienced personnel having the technical know-how or enough 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.

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

  **WARNING! CAUTION!** Loudspeakers are to be installed by qualified personnel, respecting all safety standards.

Loudspeakers are to be installed securely.

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 attachment elements suitable for walls/ceilings (e.g. wall plugs for bricks, for concrete, etc.).

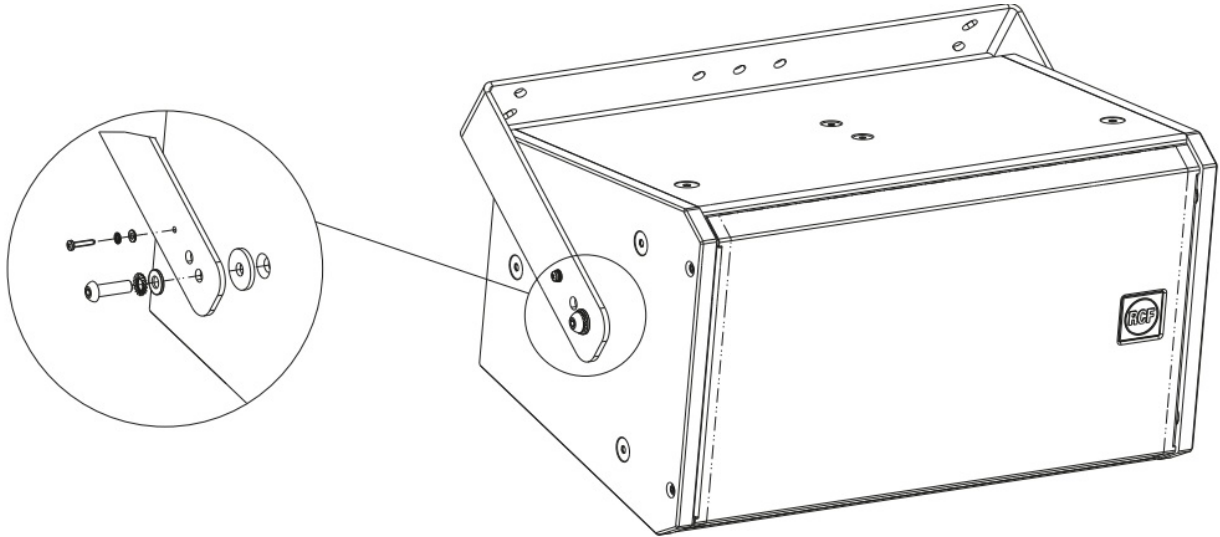
## HORIZONTAL MOUNTING WITH U BRACKET



Necessary optional accessory:

- HORIZONTAL BRACKET H-BR 2X COMPACT M 08 (for COMPACT M 08 model);
- HORIZONTAL BRACKET H-BR 2X COMPACT M 10 (for COMPACT M 10 model);
- HORIZONTAL BRACKET H-BR 2X COMPACT M 12 (for COMPACT M 12 model);

1. Fix the U bracket to the wall/ceiling through at least 4 lateral wall plugs (max. M8) plus a central one (max. M10).
2. Mount the U bracket to the loudspeaker by tightening the two M10x35 bolts into the holes of the loudspeaker top and bottom, as shown in the figure below.



Alternatively, it's possible to install the speaker in a less protruding way by using the other two inner holes on the U bracket.

Before tightening the two M10 bolts, adjust the loudspeaker's vertical tilt and then (when you found the right angle) fix it through two M4.2x22 self-threading screws (passing through the small hole of the U bracket) directly into the loudspeaker cabinet wood.

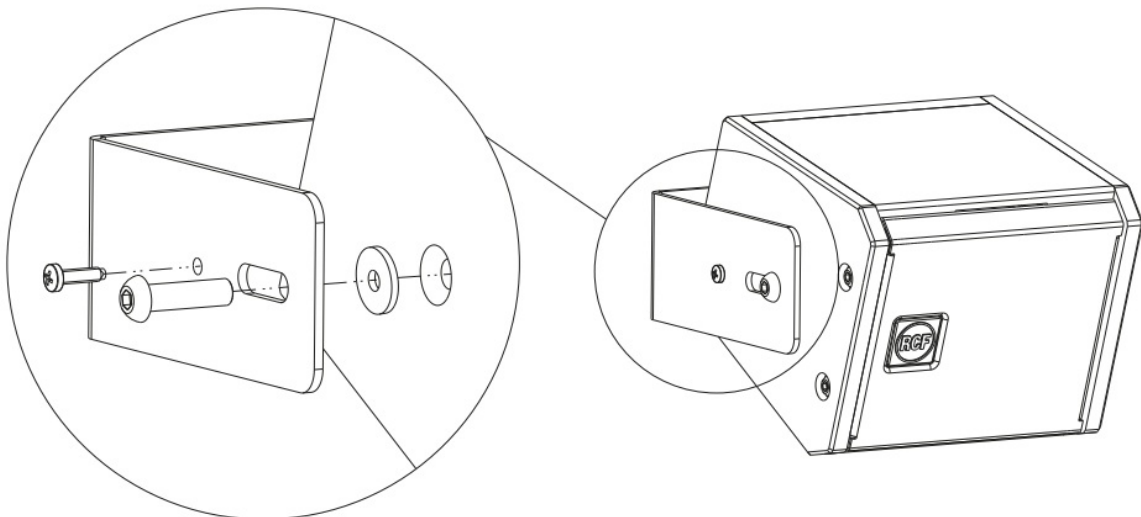


**NOTE:** instead of simple M10 bolts, it is possible to use the M10 bolt-included knobs.



**CAUTION:** do not tilt the loudspeaker upwards.

Model COMPACT M 04 comes with its own HORIZONTAL BRACKET which must be fixed in the same way as the other COMPACT M models (see picture below).



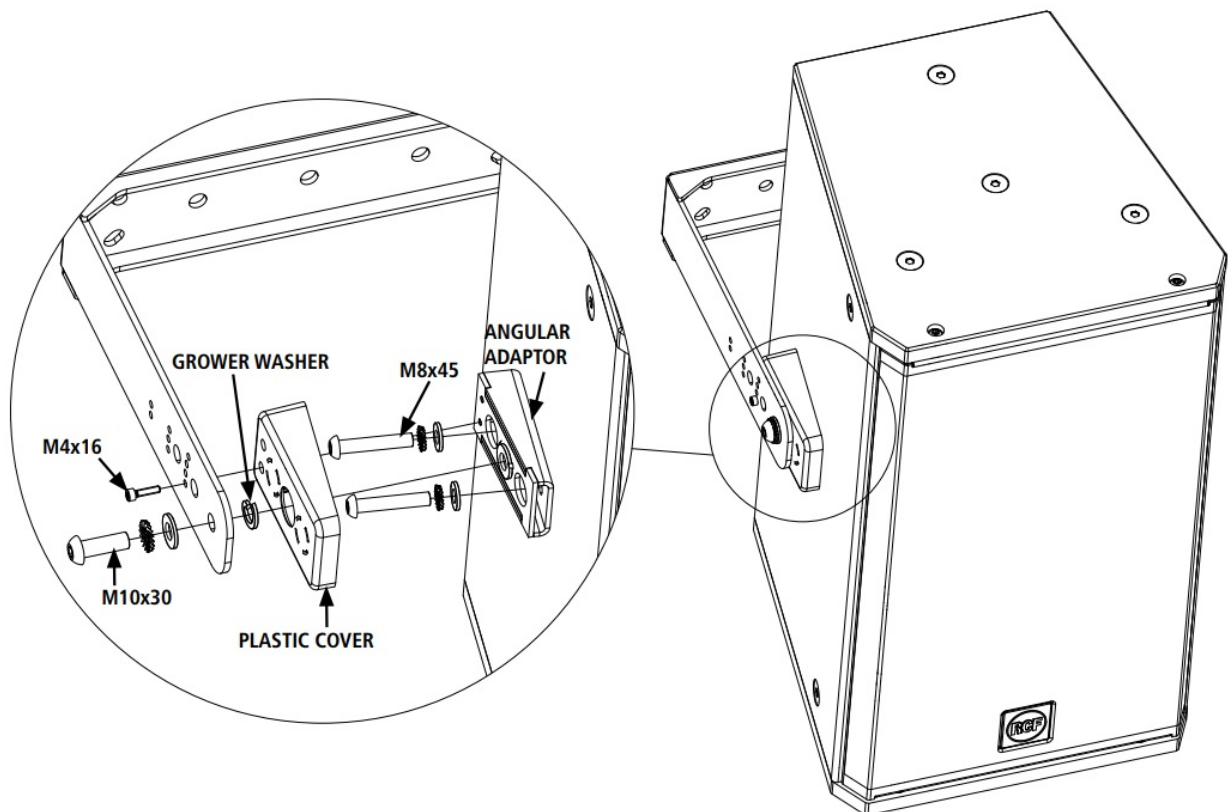
## VERTICAL MOUNTING WITH U BRACKET



Necessary optional accessory:

- VERTICAL BRACKET V-BR 2X COMPACT M 08 (for COMPACT M 08 model);
- VERTICAL BRACKET V-BR 2X COMPACT M 10 (for COMPACT M 10 model);
- VERTICAL BRACKET V-BR 2X COMPACT M 12 (for COMPACT M 12 model);

Fix the U bracket to the wall/ceiling through at least 4 lateral wall plugs (max. M8) plus a central one (max. M10).



1. After removing the screws on the speaker sides, fix the angular adaptor on the speaker with the M8x45 screws.
2. Place the plastic cover on the angular adaptor.
3. Fix the bracket to the speaker with the M10x30 screws placing a grower washer between the bracket and the plastic cover.

Set the speaker's vertical tilt and fix the inclination by screwing the two M6 screws on the adaptor.



**NOTE:** alternatively, a less protruding installation is possible thanks to the inner holes of the U bracket.

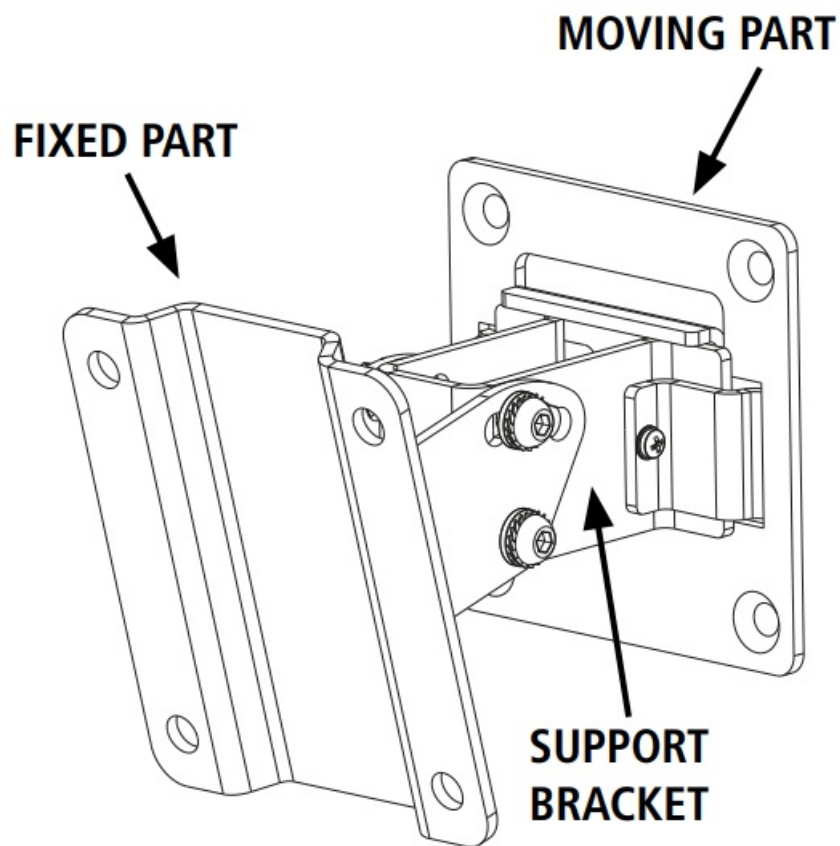


**CAUTION:** do not tilt the loudspeaker upwards.

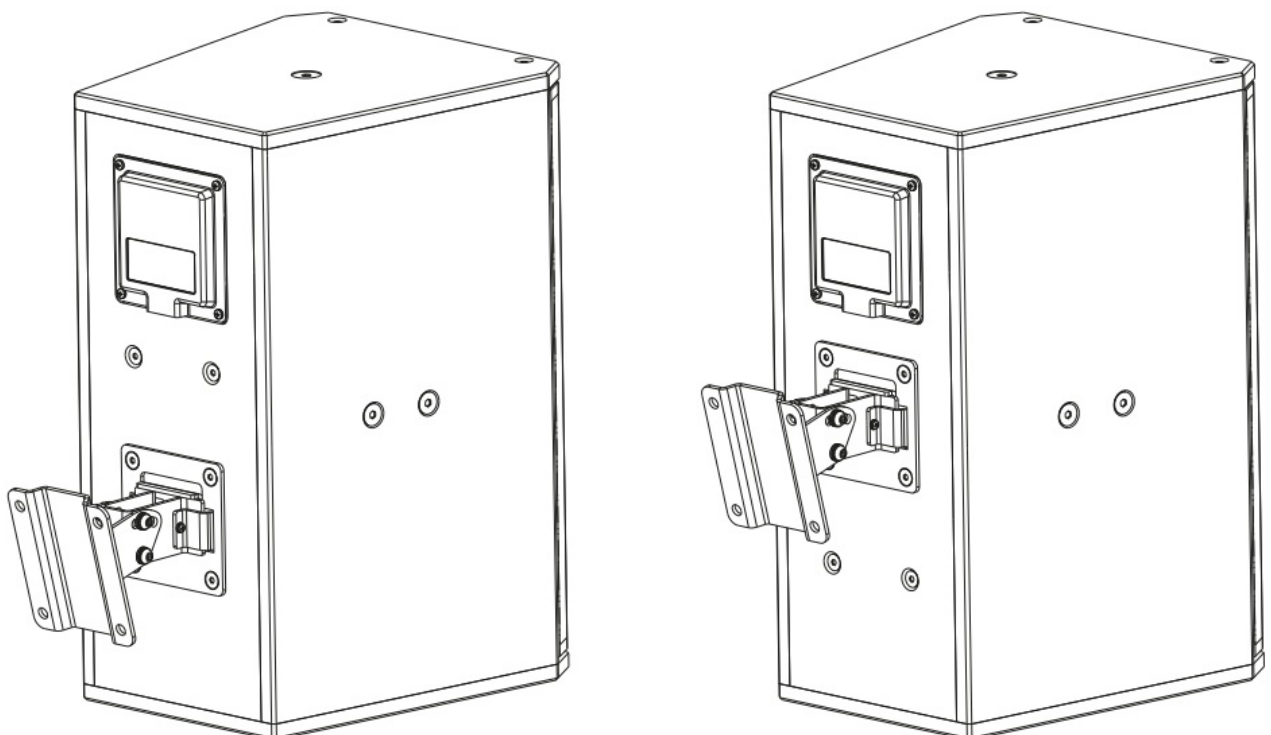
## MOUNTING WITH A SWIVEL BRACKET

**Necessary optional accessory:** WALL MOUNT BRACKET SWM-BR COMPACT M (for COMPACT M 05, M 06, and M 08 models)

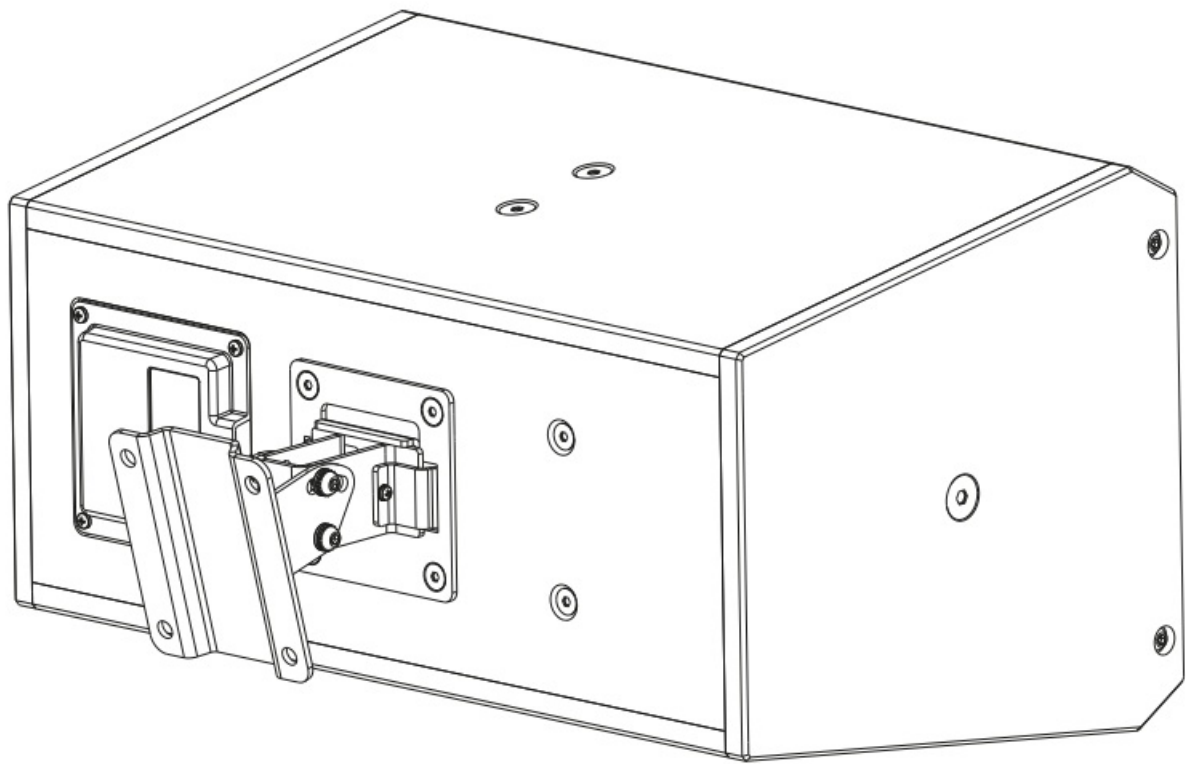
1. Install the fixed part of the accessory with 4 M8 wall plugs through the 4 holes (the central area of the fixed part can be useful to let pass the connecting cable from the wall outlet)
2. Fix the SUPPORT BRACKET to the FIXED PART with two M10 bolts included in dotazione and choose the right inclination angle (0°, 15°, 30°, 45°)



The **MOVING PART** of the accessory must be fixed directly on the back of the speaker with 4 M6 flat head screws (already placed on the , speaker). On the COMPACT M 08 model, the accessory can be fixed in two different positions (as shown in the picture below).

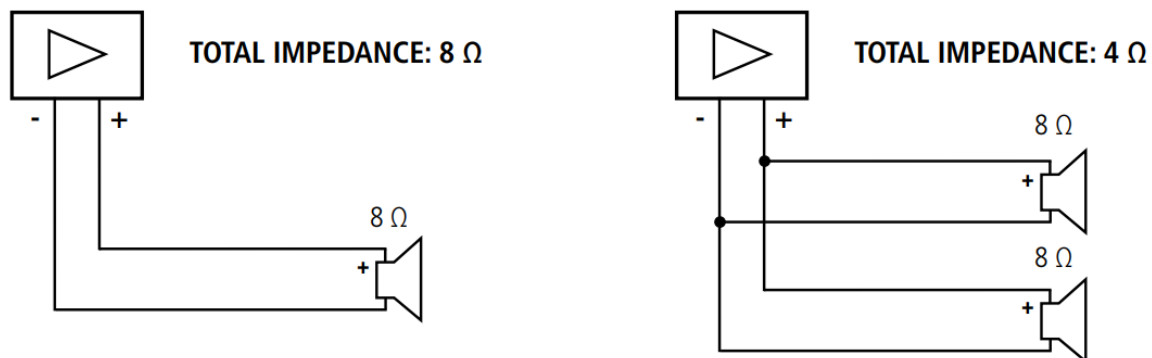


It is also possible the loudspeaker horizontal mounting (see the figure below).



3. Then, place the speakers on the support bracket and tighten the two lateral bolts.

#### NOTES ABOUT LOW-IMPEDANCE CONNECTIONS



**WARNING!**



**CAUTION!**

– 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 a 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.

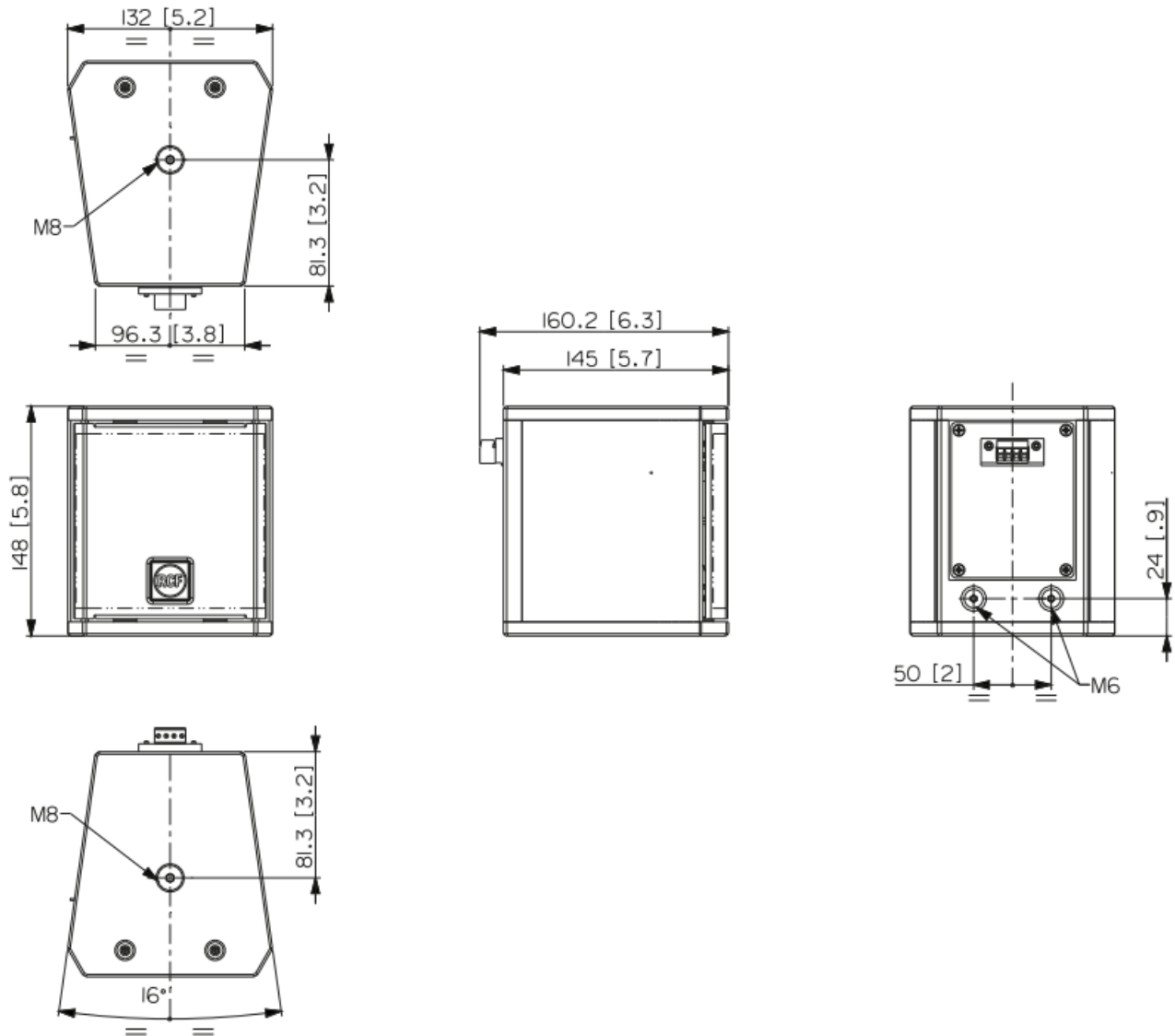
– Use loudspeaker cables with twisted wires to reduce hum caused by inductive effects due to coupling with

electromagnetic fields.

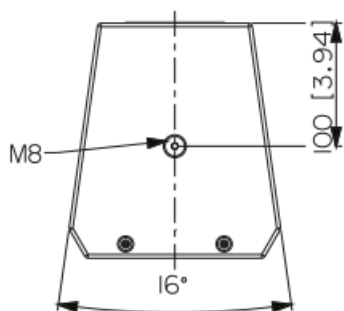
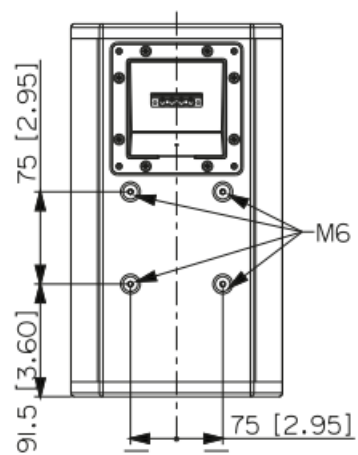
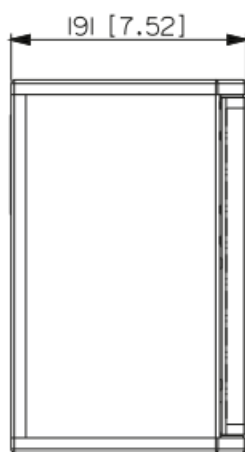
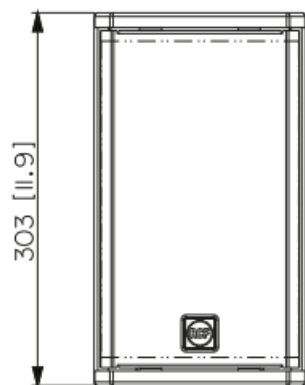
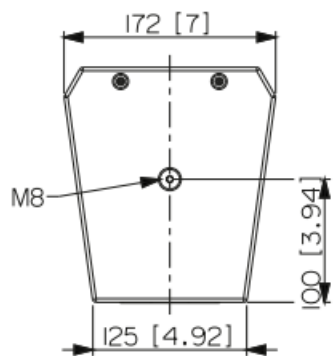
– Do NOT connect the low impedance input directly to 70 / 100 V constant voltage lines.

## DIMENSIONS

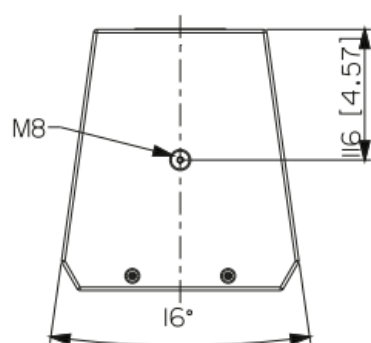
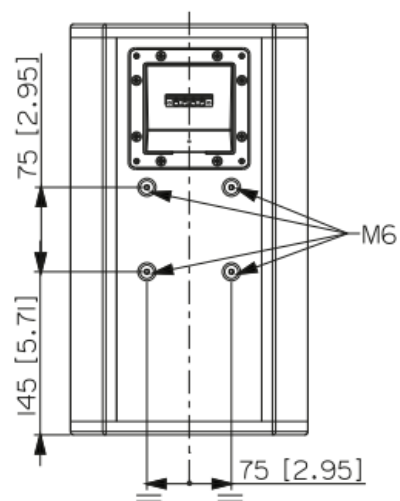
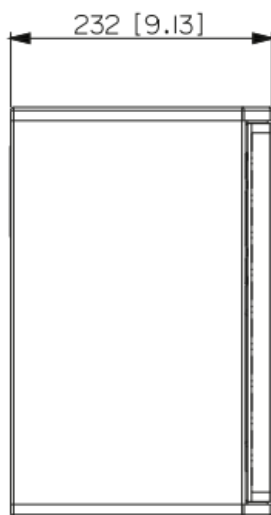
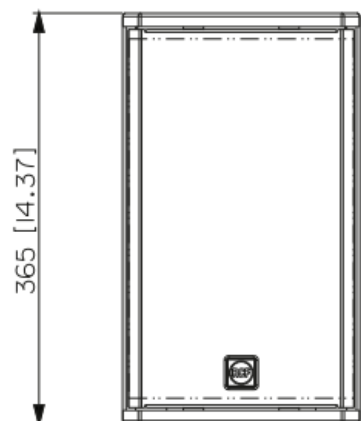
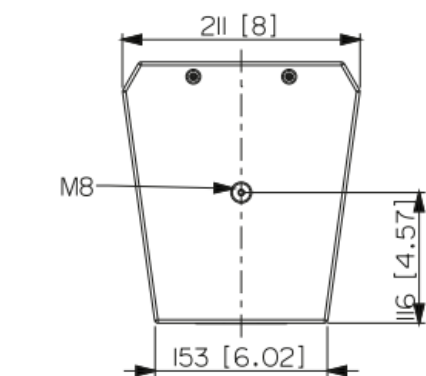
### COMPACT M 04



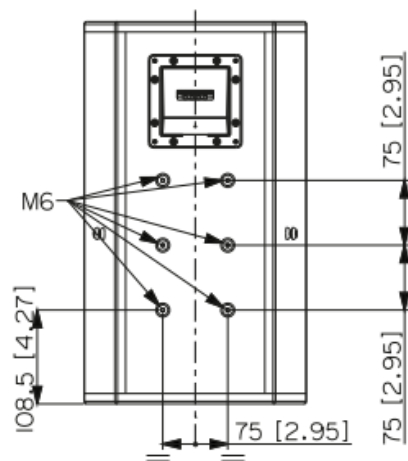
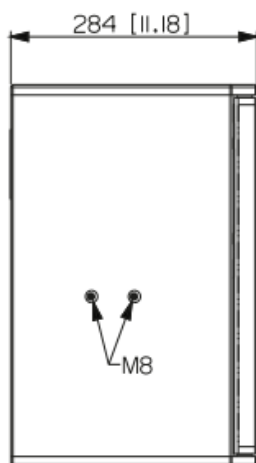
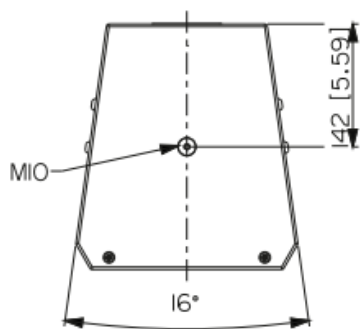
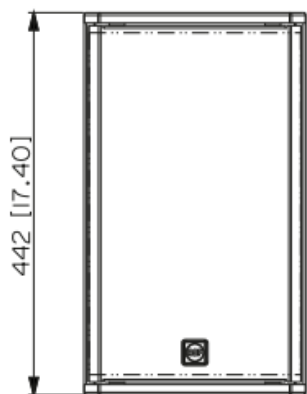
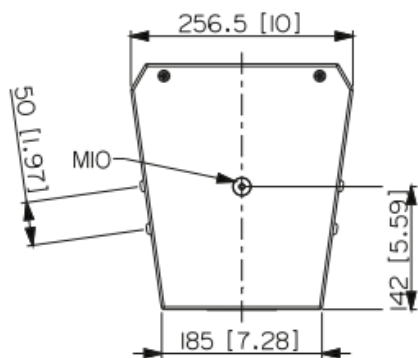
### COMPACT M 05



**COMPACT M 06**

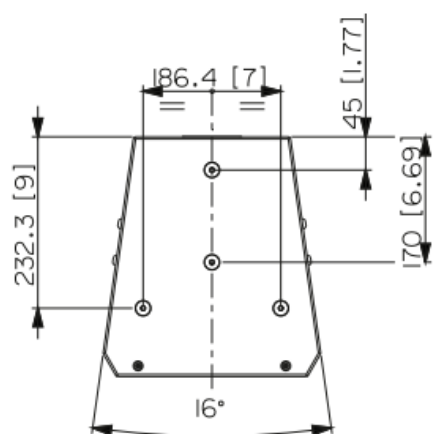
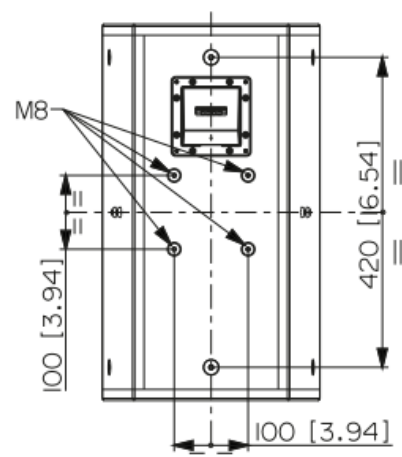
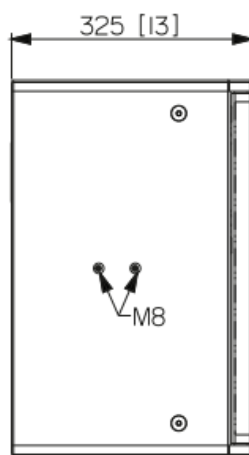
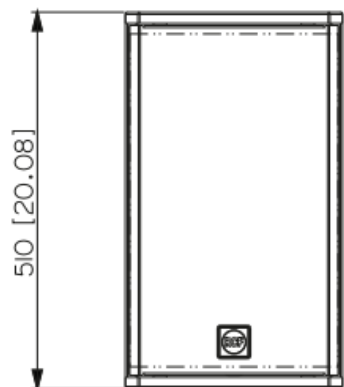
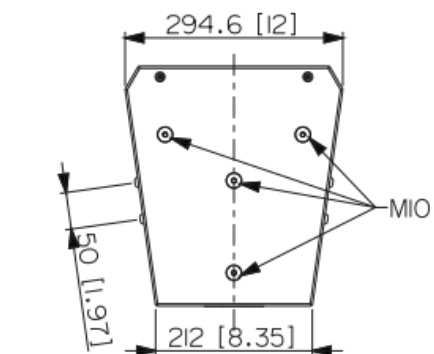


**COMPACT M 08**

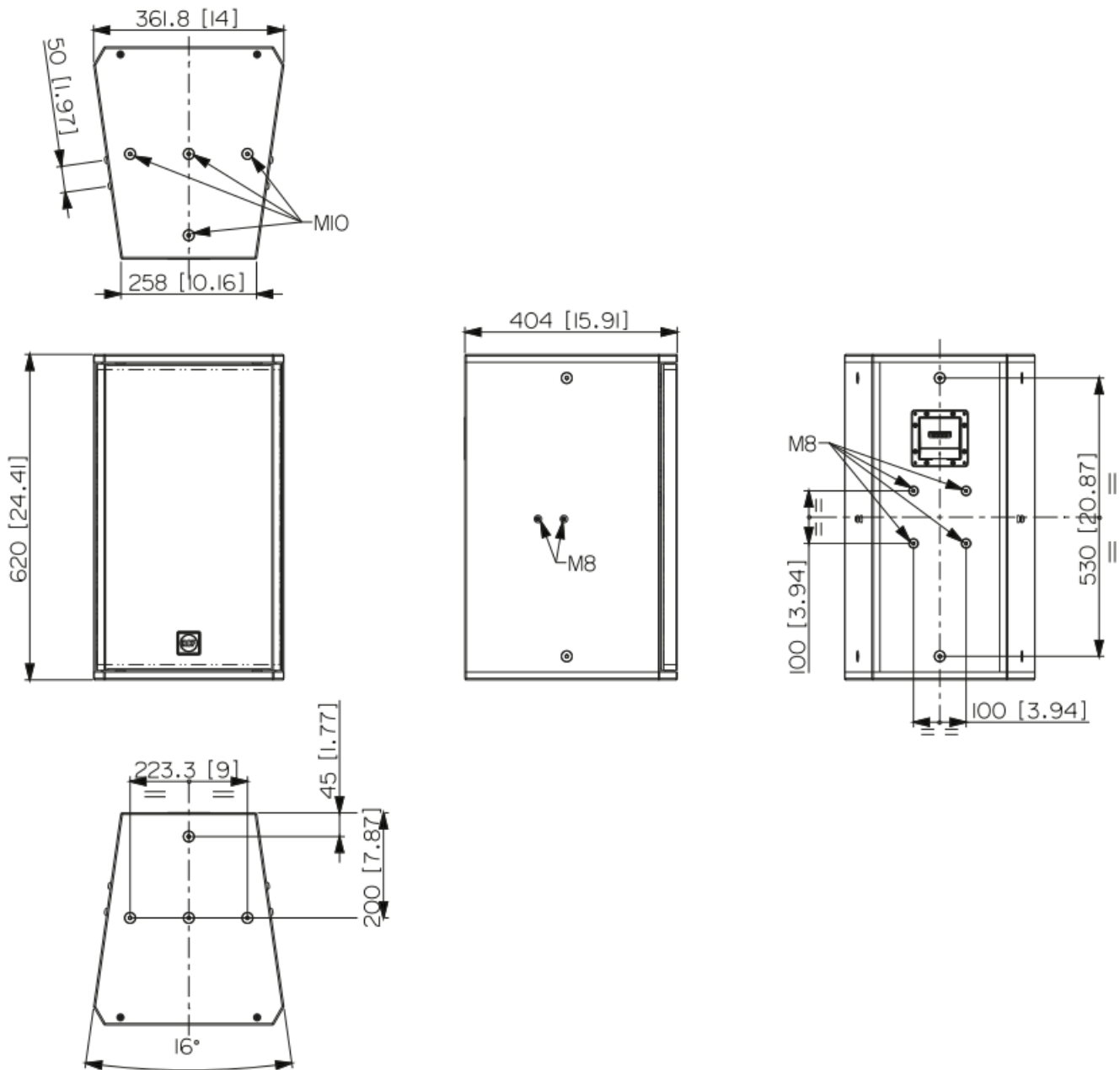


**COMPACT M 10**





**COMPACT M 12**



## SPECIFICATIONS

ACOUSTICAL SPECIFICATION	COMPACT M 04	COMPACT M 05	COMPACT M 06	COMPACT M 08	COMPACT M 10	COMPACT M 12
Frequency Response (-10dB)	90 Hz ÷ 20000 Hz	70 Hz ÷ 20000 Hz	60 Hz ÷ 20000 Hz	60 Hz ÷ 20000 Hz	60 Hz ÷ 20000 Hz	55 Hz ÷ 20000 Hz
Max SPL @ 1m (dB)	113 dB	115 dB	116 dB	124 dB	128 dB	129 dB
Coverage angle H x V	120° x 120°	120° x 80°	120° x 80°	90° x 70°	90 x 70°	90 x 70°
Directivity Index Q	6	7	7	9	9	9
Sensitivity (dB)	89 dB	89 dB	90 dB	95 dB	98 dB	98 dB

## POWER SECTION

Nominal Impedance (ohm)	16 ohm	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm
Power (RMS)	60 W RMS	80 W RMS	100 W RMS	200 W RMS	300 W RMS	300 W RMS
Power (PEAK)	240 W PEAK	320 W PEAK	400 W PEAK	800 W PEAK	1200 W PEAK	1200 W PEAK
Recommeneded Amplifier	120 W	160 W	200 W	400 W	600 W	600 W
Crossover Frequency	3500 Hz	2200 Hz	2200 Hz	1800 Hz	1800 Hz	1800 Hz
Protections	–	–	Dynamic active MOSFET	Dynamic active MOSFET	Dynamic active MOSFET	Dynamic active MOSFET

## TRANSDUCERS

HIGH FREQUENCY	1" neo, 1.0" v.c(dometweeter)	1" neo, 1.0" v.c(dometweeter)	1" neo, 1.0" v.c(dometweeter)	1" neo, 1.0" v.c(compression driver)	1" neo, 1.0" v.c(compression driver)	1" neo, 1.0" v.c(compression driver)
Nominal Impedance (ohm)	16 ohm	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm
Nominal power	10 W AES, 20 W PEAK	15 W AES, 30 W PEAK	15 W AES, 30 W PEAK	25 W AES, 50 W PEAK	25 W AES, 50 W PEAK	25 W AES, 50 W PEAK
Sensitivity (dB, 1 W @ 1m)	91 dB, 1W @ 1m	92 dB, 1W @ 1m	92 dB, 1W @ 1m	107 dB, 1W @ 1m	107 dB, 1W @ 1m	107 dB, 1W @ 1m
WOOFER	4.0", 1" v.c	5.0", 1.2" v.c	6.0", 1.5" v.c	8", 1.7" v.c	10", 2.5" v.c	12", 2.5" v.c
Nominal Impedance (ohm)	16 ohm	8 ohm	8 ohm	8 ohm	8 ohm	8 ohm
Nominal power	40 W AES, 80 W PEAK	80 W AES, 160 W PEAK	100 W AES, 200 W PEAK	200 W AES, 400 W PEAK	300 W AES, 600 W PEAK	300 W AES, 600 W PEAK
Sensitivity (dB, 1 W @ 1m)	88 dB, 1W @ 1m	89 dB, 1W @ 1m	90 dB, 1W @ 1m	94 dB, 1W @ 1m	98 dB, 1W @ 1m	98 dB, 1W @ 1m

## INPUT/OUTPUT SECTION

Input/Output connectors	Euroblock	Euroblock	Euroblock	Euroblock	Euroblock	Euroblock
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## PHYSICAL SPECIFICATION

Cabinet Material	Plywood	Plywood	Plywood	Plywood	Plywood	Plywood
Hardware	2 x M6, 2 x M8	4 x M6, 2 x M8	4 x M6, 2 x M8	6 x M6, 4 x M8, 2 x M10	8 x M8, 8 x M10	8 x M8, 8 x M10
Grille	Steel with clothing	Steel with clothing	Steel with clothing	Steel with clothing	Steel with clothing	Steel with clothing
Color	Black	Black / White	Black / White	Black / White	Black / White	Black / White

## DIMENSION

Height	148 mm / 5.83 inches	303 mm / 11.93 inches	365 mm / 14.37 inches	442 mm / 17.4 inches	510 mm / 20.08 inches	620 mm / 24.41 inches
Width	132 mm / 5.2 inches	172 mm / 6.77 inches	211 mm / 8.31 inches	257 mm / 10.12 inches	295 mm / 11.61 inches	362 mm / 14.25 inches
Depth	145 mm / 5.71 inches	191 mm / 7.52 inches	232 mm / 9.13 inches	284 mm / 11.18 inches	325 mm / 12.8 inches	404 mm / 15.91 inches
Weight	2.3 kg / 5.07 lbs	4.5 kg / 9.92 lbs	5.5 kg / 12.13 lbs	13.5 kg / 29.76 lbs	17 kg / 37.48 lbs	22 kg / 48.5 lbs



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## Documents / Resources

	<p><b><a href="#">RCF COMPACT M SERIES Two Way Speakers</a></b> [pdf] Owner's Manual  COMPACT M SERIES Two Way Speakers, COMPACT M SERIES, Two Way Speakers, Speakers</p>
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