



RCF NXL 44-A Two-Way Active Arrays Owner's Manual

[Home](#) » [RCF](#) » RCF NXL 44-A Two-Way Active Arrays Owner's Manual 

Contents

- [1 RCF NXL 44-A Two-Way Active Arrays](#)
- [2 SAFETY PRECAUTIONS AND GENERAL INFORMATION](#)
 - [2.1 CARE AND MAINTENANCE](#)
- [3 DESCRIPTION](#)
- [4 REAR PANEL FEATURES AND CONTROLS](#)
- [5 CONNECTIONS](#)
- [6 ACCESSORIES](#)
- [7 INSTALLATION](#)
- [8 TROUBLESHOOTING](#)
- [9 SPECIFICATION](#)
- [10 NXL 24-A DIMENSIONS](#)
- [11 NXL 44-A DIMENSIONS](#)
- [12 Documents / Resources](#)
- [13 Related Posts](#)



RCF NXL 44-A Two-Way Active Arrays



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 to move with extreme caution and never tilt.
	WASTE DISPOSAL	This symbol indicates that this product should not be disposed 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.p.A. will not assume any responsibility for the incorrect installation and / or use of this product.

SAFETY PRECAUTIONS

1. All the precautions, in particular the safety ones, must be read with special attention, as they provide important information.
2. Power supply from mains
 - **a.** The mains voltage is sufficiently high to involve a risk of electrocution; install and connect this product before plugging it in.
 - **b.** 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.
 - **c.** 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.

- **d.** Protect the power cable from damage; make sure it is positioned in a way that it cannot be stepped on or crushed by objects.
 - **e.** To prevent the risk of electric shock, never open this product: there are no parts inside that the user needs to access.
 - **f.** Be careful: in the case of a product supplied by manufacturer only with POWERCON connectors and without a power cord, jointly to POWERCON connectors type NAC3FCA (power-in) and NAC3FCB (power-out), the following power cords compliant to national standard shall be used:
 - **EU:** cord type H05VV-F 3G 3×2.5 mm² – Standard IEC 60227-1
 - **JP:** cord type VCTF 3×2 mm²; 15Amp/120V~ – Standard JIS C3306
 - **US:** cord type SJT/SJTO 3×14 AWG; 15Amp/125V~ – Standard ANSI/UL 62
3. 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.
 4. 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 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 odours 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 specialised 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 ear plugs 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 an 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 hazard, do not connect to mains power supply while 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 these advices:

- If the product is intended to be set up outdoors, be sure it is under cover and protected to 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.

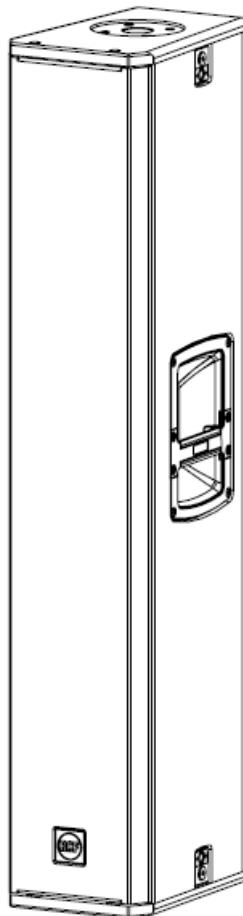
DESCRIPTION

NXL MK2 SERIES – THE NEXT GENERATION OF SOUND

The NXL MK2 series sets a new milestone in column arrays. RCF engineers have merged purpose-designed transducers with constant directivity, FiRPHASE processing, and newly added Bass Motion Control algorithms, all driven by a 2100W amplifier. Durably built in a rugged baltic birch plywood cabinet with ergonomic handles on each side, NXL speakers are unobtrusive, flexible, and deliver remarkable audio performance to any professional audio application.

NXL series consists of full-range column array speakers ideal for high-powered portable and installed professional applications where size is a critical factor. The sleek column design and the rigging flexibility make it a smart choice for a wide range of sound applications. It can be used alone, on a pole, or paired with a sub, vertically coupled for improved vertical coverage, and can also be flown or truss-mounted using the included rigging points and special accessories. From the cabinet to the final texture and the rugged protective grille, NXL Series offers maximum strength for intensive use on the road and can be used for fixed installation.

NXL 24-A



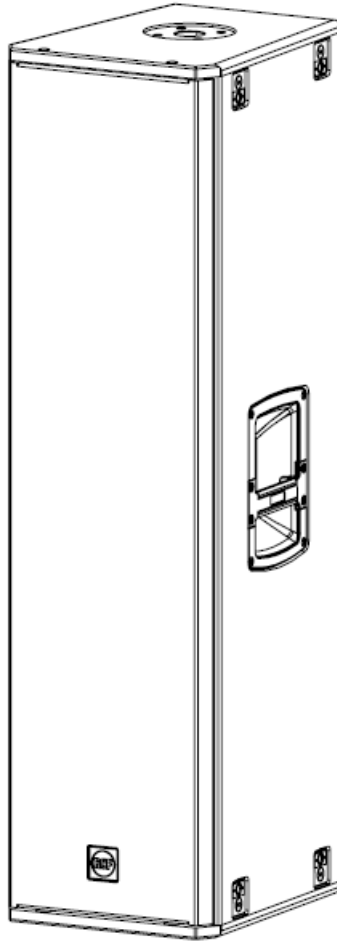
2100 Watt

4 x 6.0" neo woofers, 1.5" v.c

3.0" Compression Driver

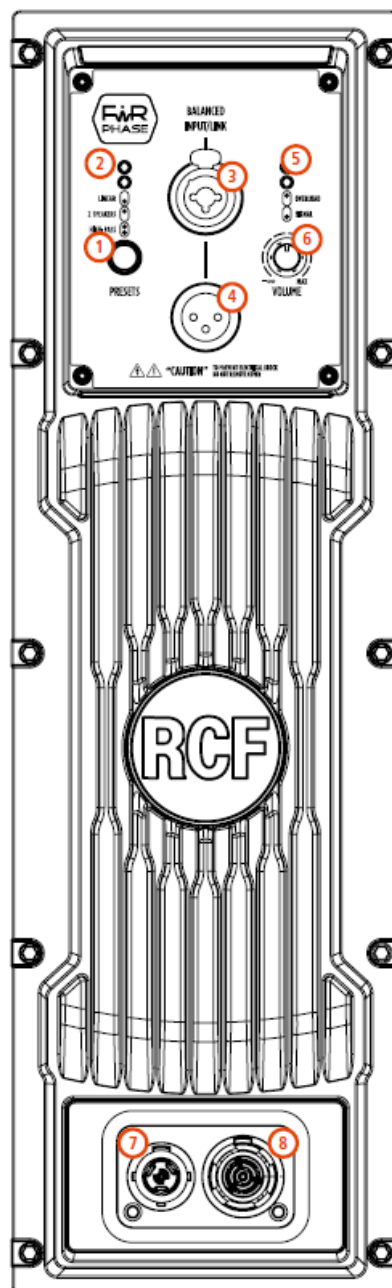
24.4 kg / 53.79 lbs

NXL 44-A



2100 Watt
3 x 10" neo woofers, 2.5" v.c
3.0" Compression Driver
33.4 kg / 73.63 lbs

REAR PANEL FEATURES AND CONTROLS



1. PRESET SELECTOR This selector allows to select 3 different presets. By pressing the selector, the PRESET LEDs will indicate which preset is selected.

-  LINEAR – this preset is recommended for all regular applications of the speaker.
-  2 SPEAKERS – this preset creates the correct equalization for the use of two NXL 24-A or NXL 44-A coupled on a subwoofer or in suspended configuration.
-  HIGH-PASS – this presets activates a 60Hz high-pass filter for the correct coupling of the NXL 24-A or NXL 44-A with subwoofers not provided with their own internal filter.

2. PRESET LEDs These LEDs indicate the selected preset.

3. FEMALE XLR/JACK COMBO INPUT This balanced input accepts a standard JACK or XLR male connector.

4. **MALE XLR SIGNAL OUTPUT** This XLR output connector provides a loop trough for speakers daisy chaining.

5. **OVERLOAD/SIGNAL LEDS** These LEDs indicate

-  The SIGNAL LED lights green if there is a signal present on the main COMBO input.
-  The OVERLOAD LED indicates an overload on the input signal. It is okay if the OVERLOAD LED blinks occasionally. If the LED blinks frequently or lights continuously, turn down the signal level avoiding distorted sound. Anyway, the amplifier has a built-in limiter circuit to prevent input clipping or overdriving the transducers.

6. **VOLUME CONTROL** Adjusts the master volume.

7. **POWERCON INPUT SOCKET** PowerCON TRUE1 TOP IP-Rated power connection.

8. **POWERCON OUTPUT SOCKET** Sends the AC power to another speaker. Power link: 100-120V~ max 1600W
| 200-240V~MAX 3300W

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.

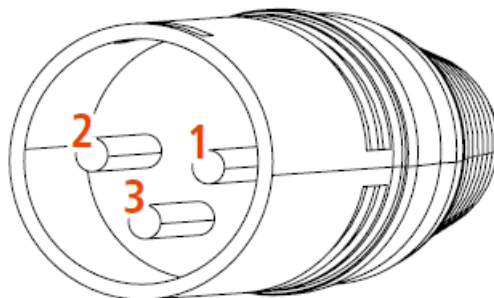
Before turning the system on, check all connections and make sure there are no accidental short circuits.

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

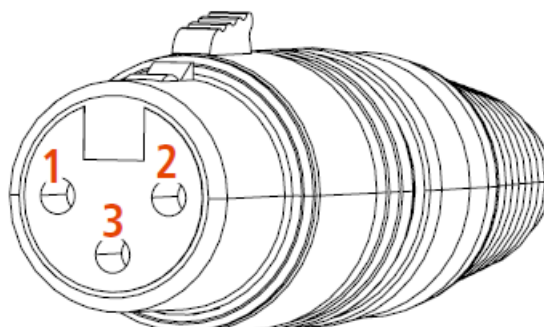
CONNECTIONS

The connectors must be wired according to the standards specified by the AES (Audio Engineering Society).

MALE XLR CONNECTOR Balanced wiring



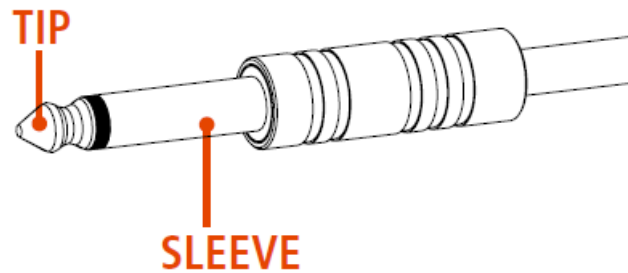
FEMALE XLR CONNECTOR Balanced wiring



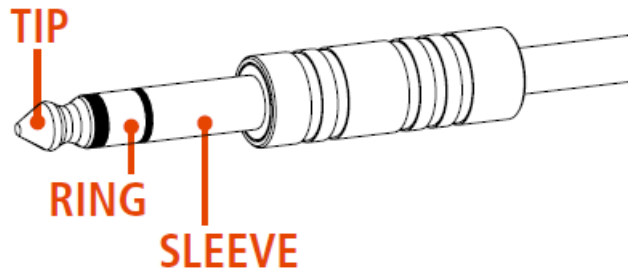
- PIN 1 = GROUND (SHIELD)

- PIN 2 = HOT (+)
- PIN 3 = COLD (-)

TRS CONNECTOR Unbalanced mono wiring



TRS CONNECTOR Balanced mono wiring



- SLEEVE = GROUND (SHIELD)
- TIP = HOT (+)
- RING = COLD (-)

BEFORE CONNECTING THE SPEAKER

On the rear panel you will find all the controls, signal and power inputs. At first verify the voltage label applied to the rear panel (115 Volt or 230 Volt). The label indicates the right voltage. If you read a wrong voltage on the label or if you can't find the label at all, please call your vendor or authorized RCF SERVICE CENTRE before connecting the speaker. This fast check will avoid any damage.

In case of need of changing the voltage please call your vendor or authorized RCF SERVICE CENTRE. This operation requires the replacement of the fuse value and is reserved to an RCF SERVICE CENTRE.

BEFORE TURNING ON THE SPEAKER

You can now connect the power supply cable and the signal cable. Before turning on the speaker make sure the volume control is at the minimum level (even on the mixer output). It is important that the mixer is already ON before turning on the speaker. This will avoid damages to the speaker and noisy "bumps" due to turning on parts on the audio chain. It is a good practice to always turn on the speakers at last and turning them off immediately after their use. You can now turn ON the speaker and adjust the volume control to a proper level.

PROTECTIONS

This speaker is equipped with a complete system of protection circuits. The circuit is acting very gently on audio signal, controlling level and maintaining distortion at acceptable level.

VOLTAGE SETUP (RESERVED TO THE RCF SERVICE CENTRE)

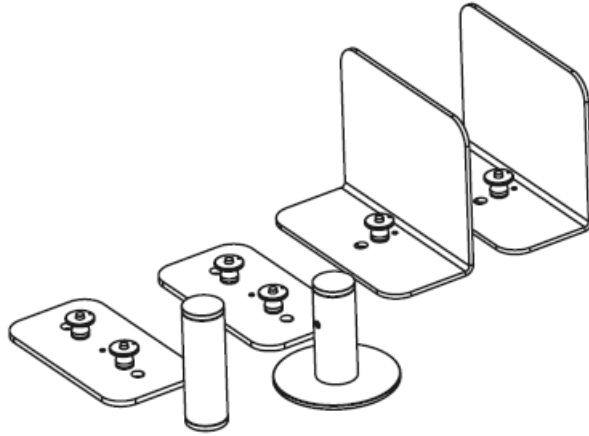
200-240 Volt, 50 Hz

100-120 Volt, 60 Hz

(FUSE VALUE T6.3 A L 250V)

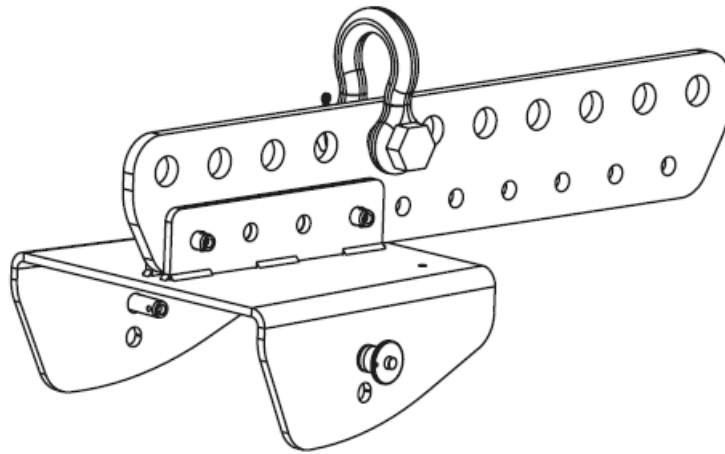
ACCESSORIES

NXL 24-A ACCESSORIES



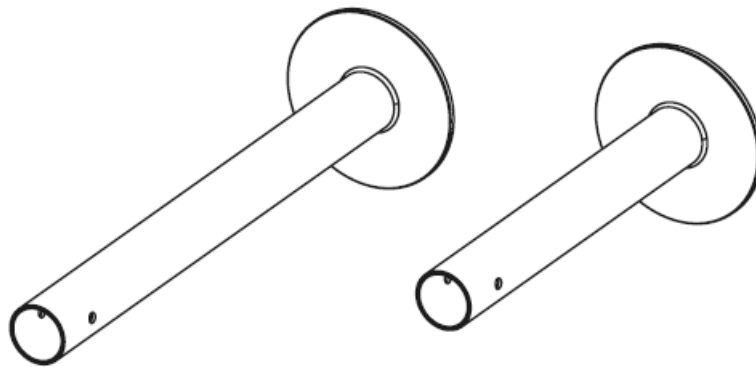
STACKING KIT 2X NXL 24-A

Pole mount accessory for stacking a couple of NXL 24-A on a subwoofer.



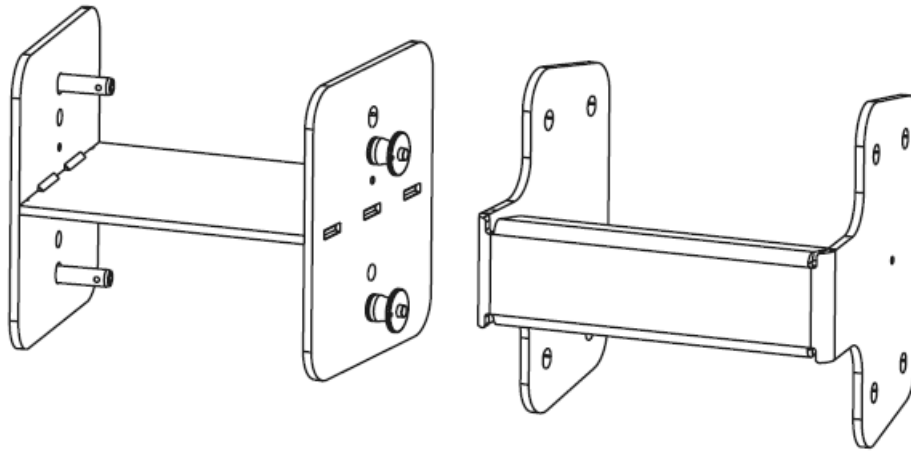
FLY BAR NX L24-A

Accessory needed for any suspended configuration of NXL 24-A



POLE MOUNT KIT NXL 24-A

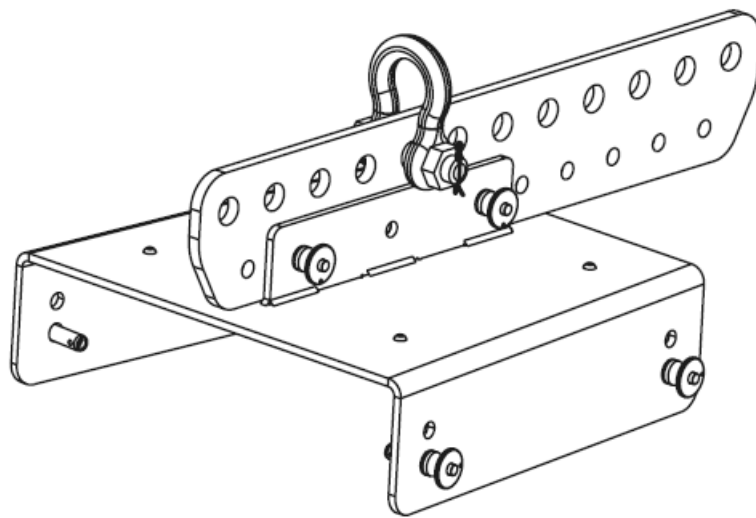
Pole mount accessory for stacking an NXL 24-A on a subwoofer.



FLY LINK KIT NXL 24-A

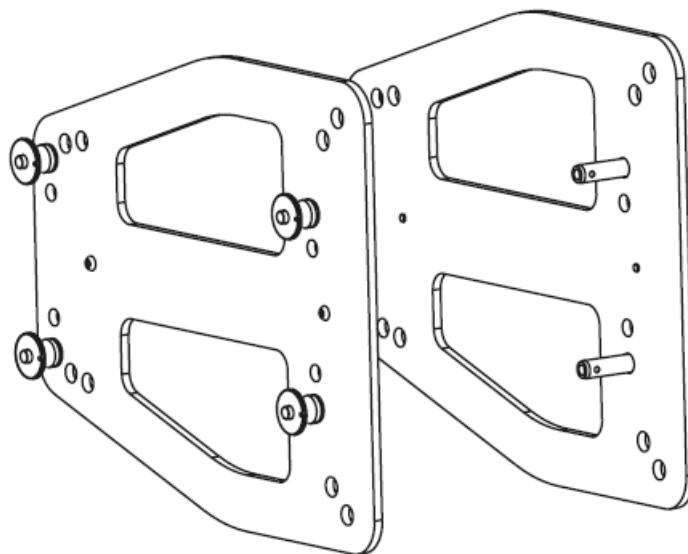
Accessory to link a second NXL 24-A to a flying NXL 24-A straight or angled (two angles are possible: 15° or 20°).

NXL 44-A ACCESSORIES



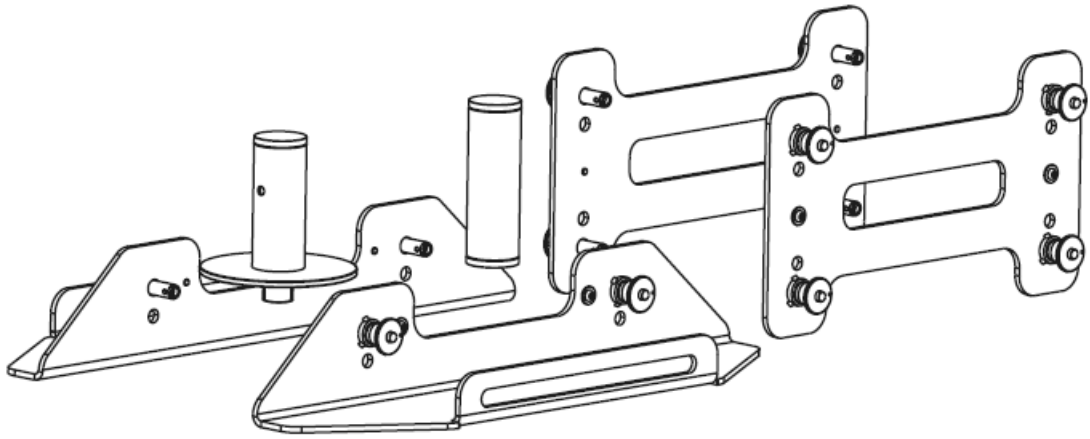
FLY BAR NX L44-A

Accessory needed for any suspended configuration of NXL 44-A



FLY LINK KIT NXL 44-A

Accessory to link a second NXL 44-A to a flying NXL 44-A straight or angled (three angles are possible: 0°, 15° or 20°).

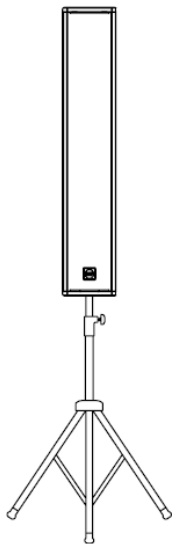


STACKING KIT 2X NXL 44-A

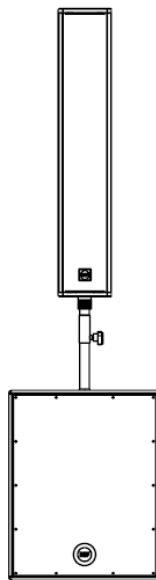
Pole mount accessory for stacking a couple of NXL 44-A on a subwoofer

INSTALLATION

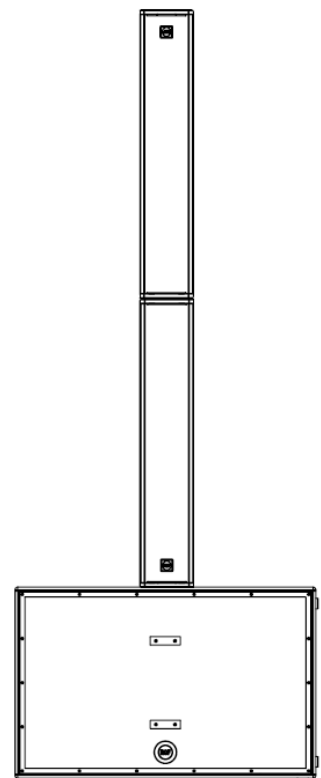
NXL 24-A FLOOR CONFIGURATIONS



**NXL 24-A MOUNTED
ON A STAND**

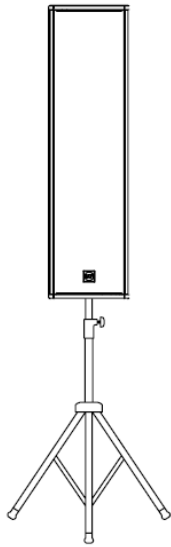


**NXL 24-A MOUNTED
ON A SUBWOOFER
(single configuration)**

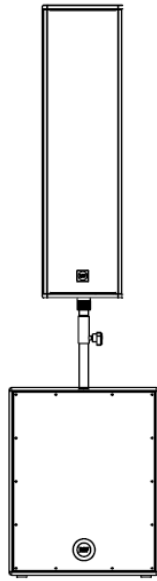


**NXL 24-A MOUNTED ON
A SUBWOOFER
(coupled configuration)**

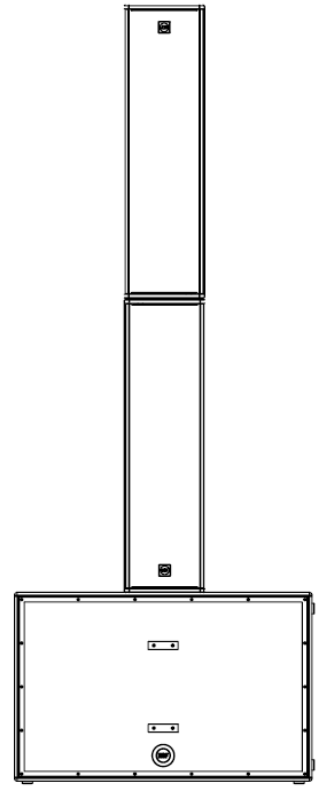
NXL 44-A FLOOR CONFIGURATIONS



**NXL 44-A MOUNTED
ON A STAND**

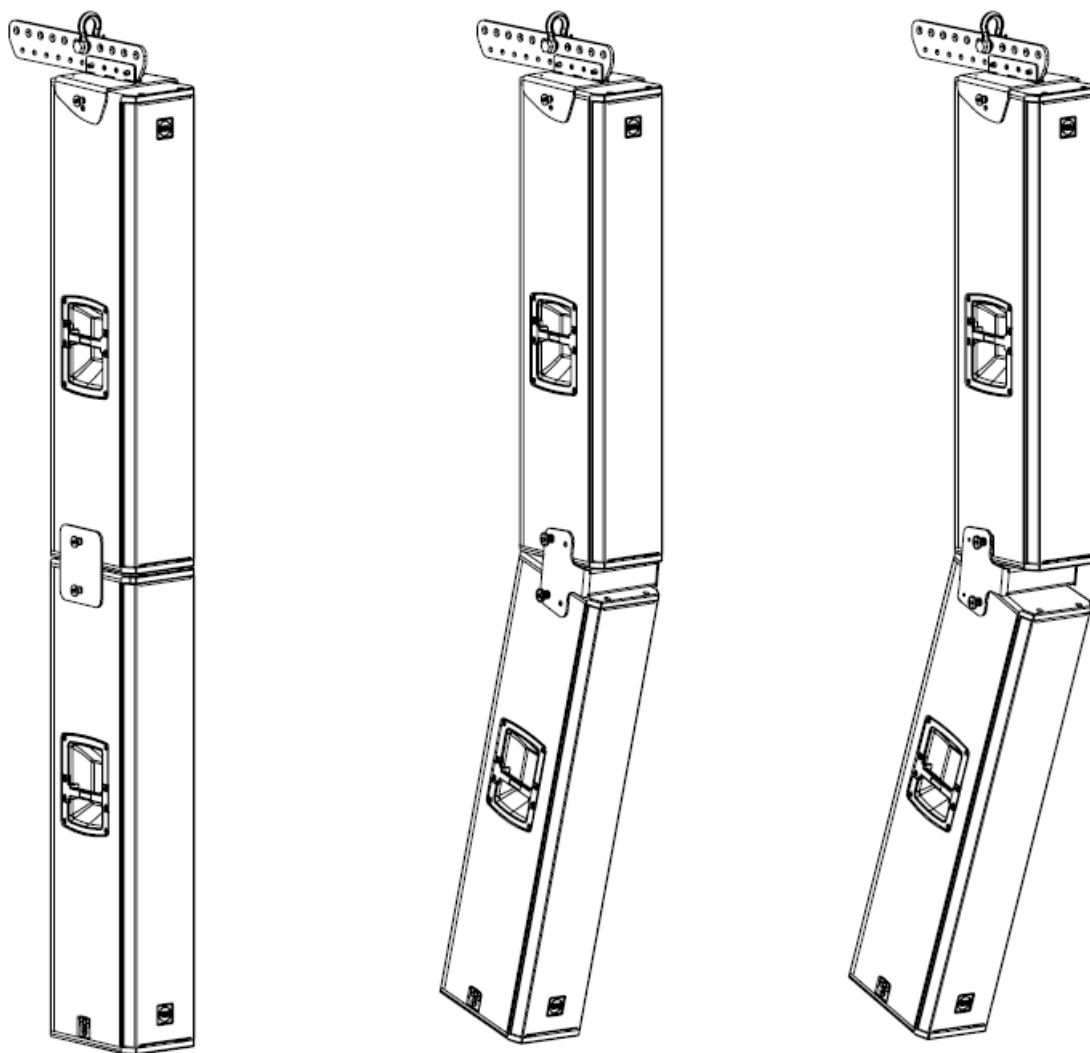


**NXL 44-A MOUNTED
ON A SUBWOOFER
(single configuration)**



**NXL 44-A MOUNTED ON
A SUBWOOFER
(coupled configuration)**

NXL 24-A SUSPENDED CONFIGURATIONS



0°

Placing the flat FLY LINK accessory allows the suspension of two speakers in straight configuration.

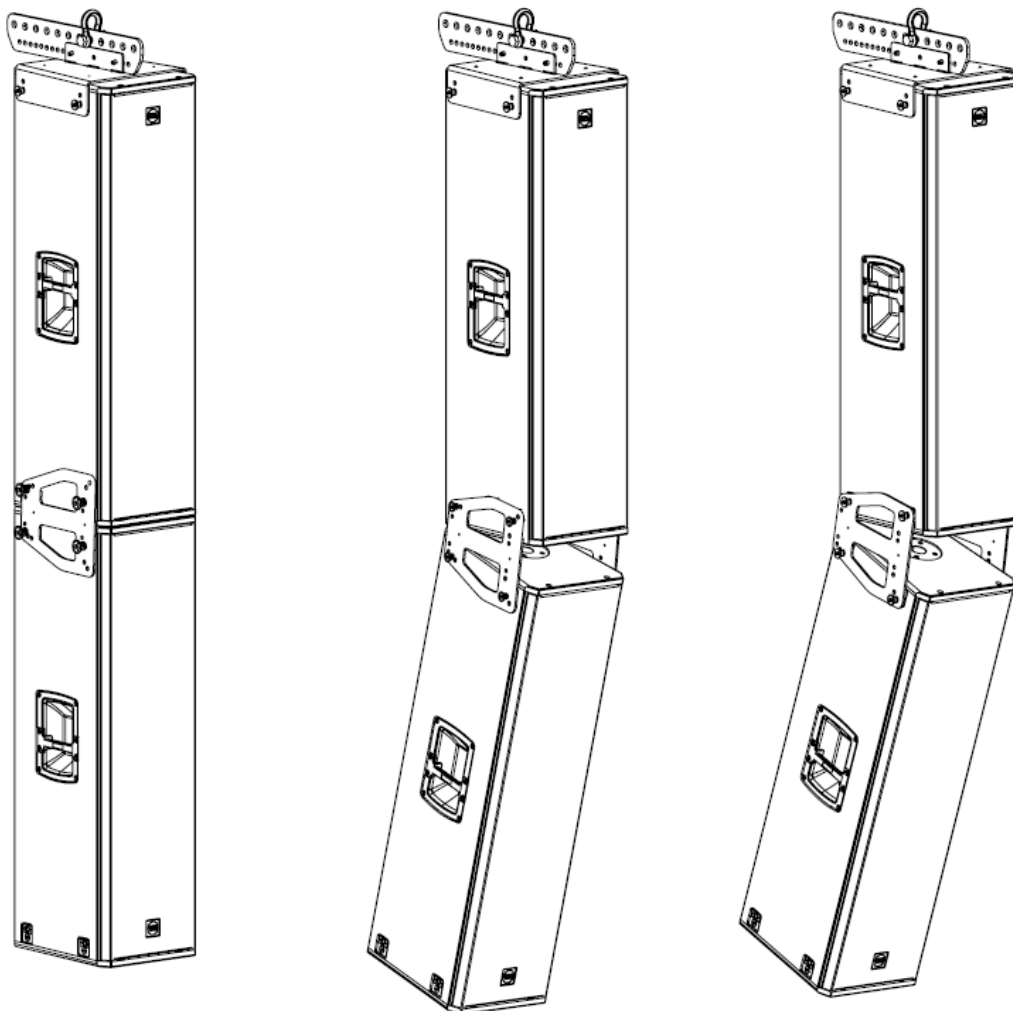
15°

Placing the angled FLY LINK accessory frontwards allows the suspension of two NXL 24-A with an angle of 15°.

20°

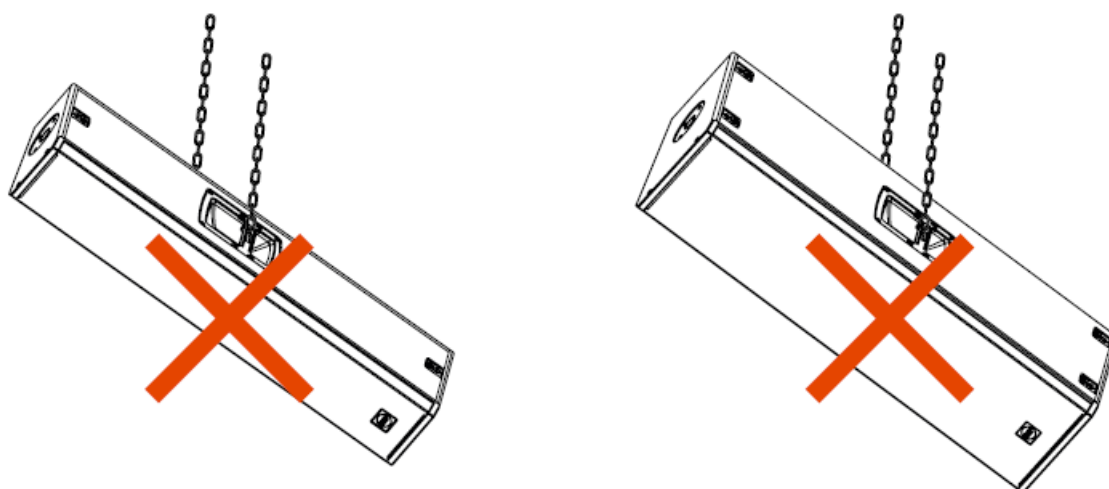
Placing the angled FLY LINK accessory backwards allows the suspension of two NXL 24-A with an angle of 20°.

NXL 44-A SUSPENDED CONFIGURATIONS

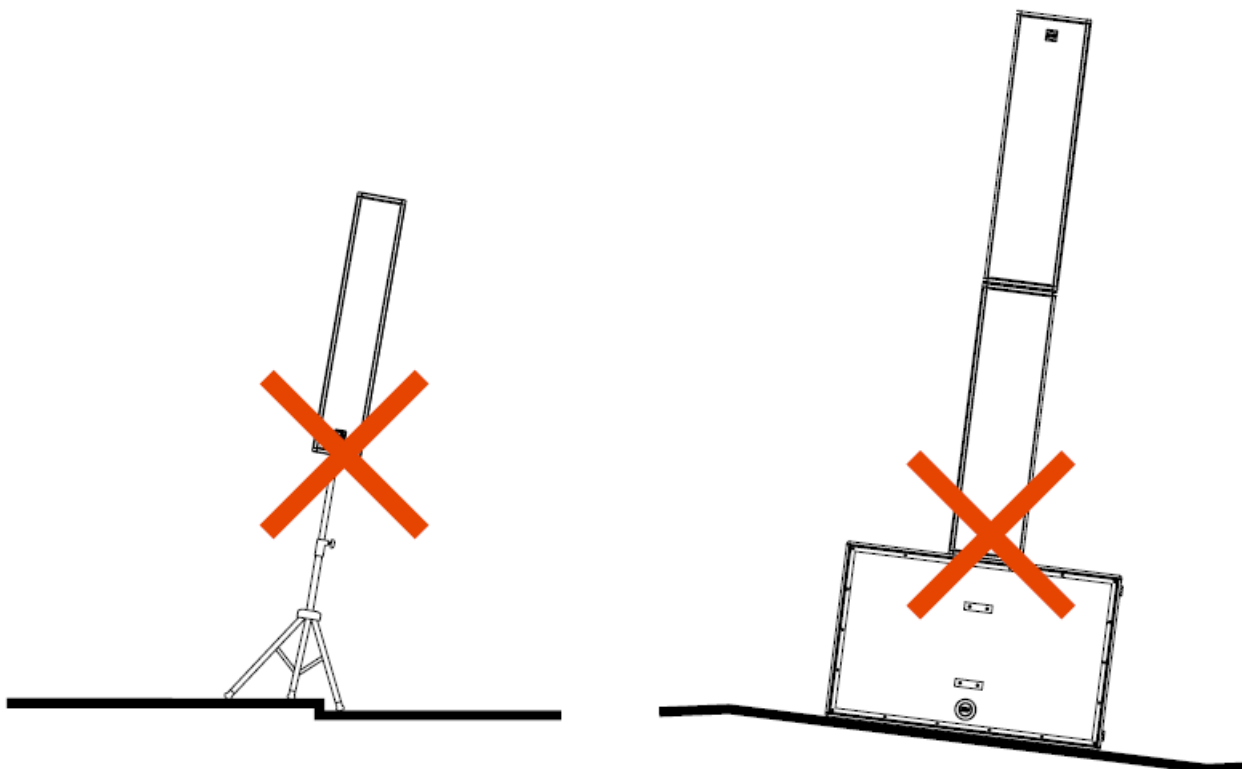


0°
15°
20°

With the FLY LINK KIT NXL 44-A accessory it is possible to link two NXL 44-A with three possible angles: 0°, 15° and 20°



WARNING! CAUTION! Never suspend this speaker by its handles. Handles are intended for transportation, not for rigging.



WARNING! CAUTION! To use this product with the subwoofer pole-mount, before installing the system, please verify the allowed configurations and the indications regarding the accessories, on the RCF website to avoid any danger and damages to people, animals and objects. In any case, please assure the subwoofer which is holding the speaker is located on an horizontal floor and without inclinations.

WARNING! CAUTION! The use of these speakers with Stand and Pole Mount accessories can be done by qualified and experienced personnel only, trained appropriately on professional systems installations. In any case it's the user's final responsibility to ensure the system safety conditions and avoid any danger or damage to people, animals and objects.

TROUBLESHOOTING

THE SPEAKER DOESN'T TURN ON

Make sure the speaker is switched on and connected to an active AC power

THE SPEAKER IS CONNECTED TO AN ACTIVE AC POWER BUT DOESN'T TURN ON

Make sure the power cable is intact and connected correctly.

THE SPEAKER IS ON BUT DOESN'T MAKE ANY SOUND

Check if the signal source is sending correctly and if the signal cables are not damaged.

THE SOUND IS DISTORTED AND THE OVERLOAD LED BLINKS FREQUENTLY

Turn down the output level of the mixer.

THE SOUND IS VERY LOW AND HISSING

The source gain or the output level of the mixer might be too low.

THE SOUND IS HISSING EVEN AT PROPER GAIN AND VOLUME

The source might send a low quality or noisy signal

HUMMING OR BUZZING NOISE

Check out the AC grounding and all the equipments connected to the mixer input including cables and connectors.

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

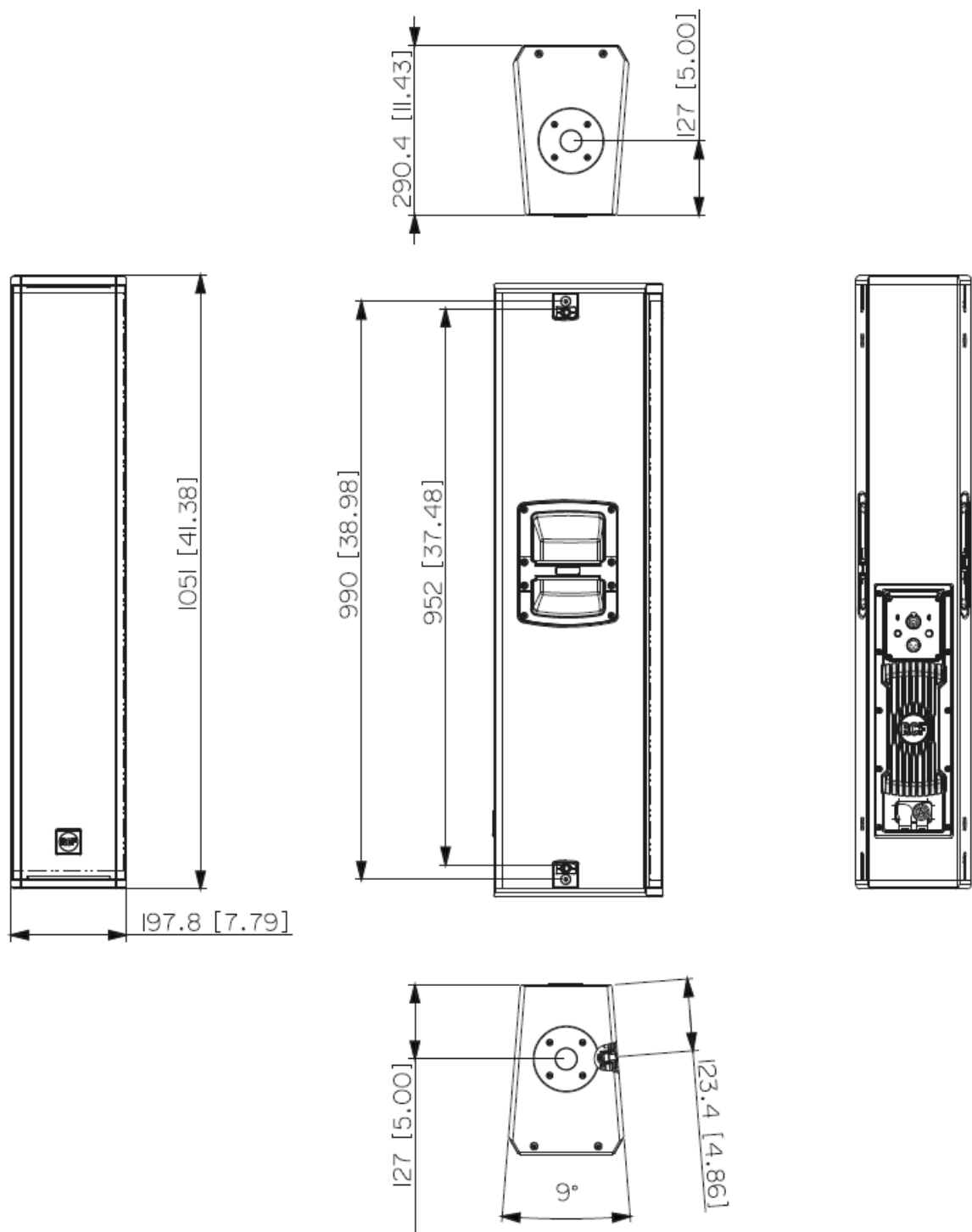
SPECIFICATION

	NXL 24-A MK2	NXL 44-A MK2
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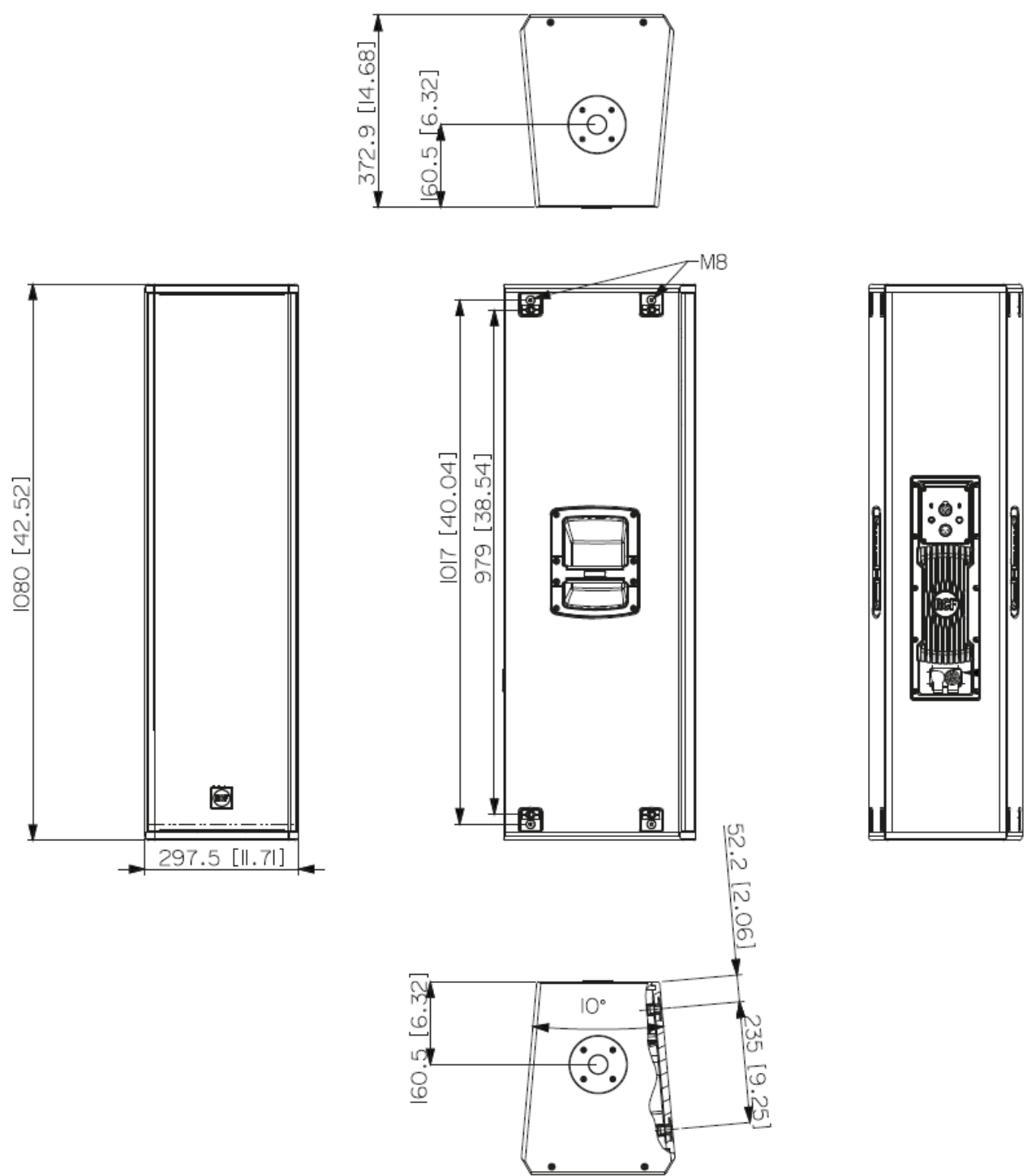
Acoustical specifications	Frequency Response:	60 Hz ÷ 20000 Hz	45 Hz ÷ 20000 Hz
	Max SPL @ 1m:	132 dB	135 dB
	Horizontal coverage angle:	100°	100°
	Vertical coverage angle:	30°	25°
Transducers	Compression Driver:	1 x 1.4" neo, 3.0" v.c	1 x 1.4" neo, 3.0" v.c
	Woofer:	4 x 6.0" neo, 1.5" v.c	3 x 10" neo, 2.5" v.c
Input/Output section	Input signal:	bal/unbal	bal/unbal
	Input connectors:	Combo XLR/Jack	Combo XLR/Jack
	Output connectors:	XLR	XLR
	Input sensitivity:	+4 dBu	-2 dBu/+4 dBu
Processor section	Crossover Frequencies:	800	800
	Protections:	Thermal, Excurs., RMS	Thermal, Excurs., RMS
	Limiter:	Soft Limiter	Soft Limiter
	Controls:	Linear, 2 Speakers, High-Pass, Volume	Linear, 2 Speakers, High-Pass, Volume
Power section	Total Power:	2100 W Peak	2100 W Peak
	High frequencies:	700 W Peak	700 W Peak
	Low frequencies:	1400 W Peak	1400 W Peak
	Cooling:	Convection	Convection
	Connections:	Powercon IN/OUT	Powercon IN/OUT
Standard compliance	CE marking:	Yes	Yes
Physical specifications	Cabinet/Case Material:	Baltic birch plywood	Baltic birch plywood
	Hardware:	4 x M8, 4 x quick lock	8 x M8, 8 x quick lock
	Handles:	2 side	2 side
	Pole mount/Cap:	Yes	Yes
	Grille:	Steel	Steel
	Color:	Black	Black
Size	Height:	1056 mm / 41.57 inches	1080 mm / 42.52 inches
	Width:	201 mm / 7.91 inches	297.5 mm / 11.71 inches
	Depth:	274 mm / 10.79 inches	373 mm / 14.69 inches
	Weight:	24.4 kg / 53.79 lbs	33.4 kg / 73.63 lbs

Shipping informations	Package Height:	320 mm / 12.6 inches	400 mm / 15.75 inches
	Package Width:	1080 mm / 42.52 inches	1115 mm / 43.9 inches
	Package Depth:	230 mm / 9.06 inches	327 mm / 12.87 inches
	Package Weight:	27.5 kg / 60.63 lbs	35.5 kg / 78.26 lbs

NXL 24-A DIMENSIONS



NXL 44-A DIMENSIONS



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Documents / Resources

COMMUNICATIONS PRODUCTS NXL 44-A NXL 44-A Two-Way Active Arrays	RCF NXL 44-A Two-Way Active Arrays [pdf] Owner's Manual NXL 44-A Two-Way Active Arrays, NXL 44-A, Two-Way Active Arrays
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