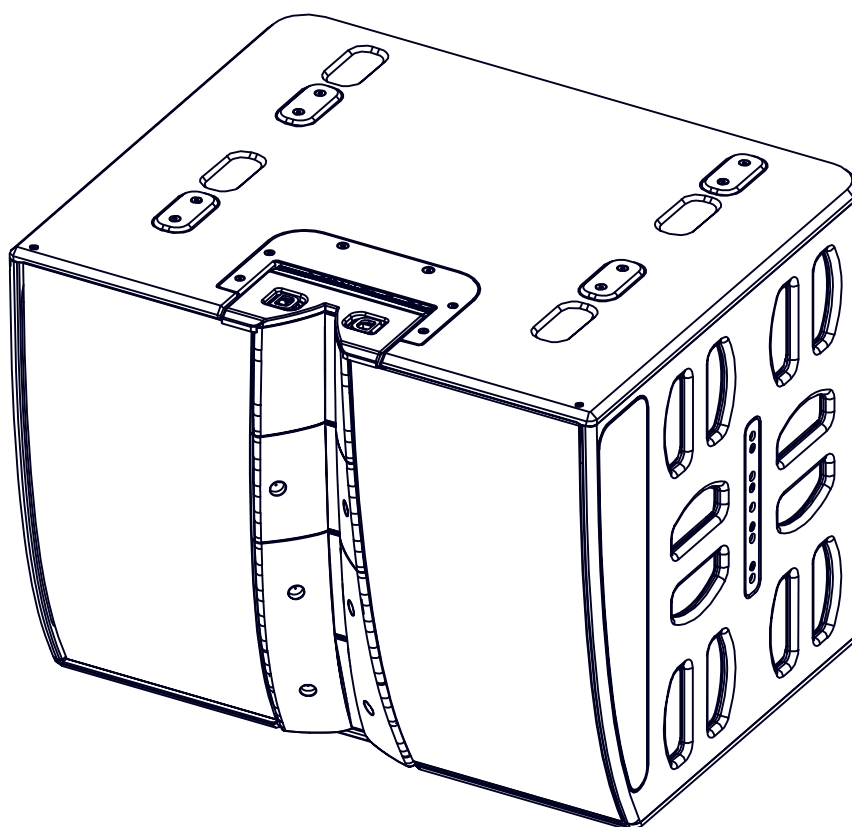


M210



User manual

TABLE OF CONTENTS

TABLE OF CONTENTS	2
WARNINGS	3
EQUIPMENT	4
DESCRIPTION	5
CONFIGURATION	6
PRESET	9
ACCESSORIES	14
ARRAY EQ	19
MAINTENANCE	20
TECHNICAL SPECIFICATIONS	24
USER NOTES	26

WARNINGS

PRECAUTIONS

Do not open the speaker, do not try to disassemble it neither to modify it in any way. The system doesn't include any user-repairable part.

If the system seems to be malfunctioning or damaged, stop using it at once and have it repaired by a NEXO qualified technician.

Do not expose the system directly to the sun or to the rain, do not immerse it into fluids, do not place objects filled with liquid on the system. If a liquid gets into the system, please have it inspected by a NEXO qualified technician.

When flying outdoor systems ensure that the system is not exposed to excessive wind or snow loads and is protected from rainfall.

In case of wind greater than 8 on Beaufort scale (72km/h – 45mph), a touring system has to be landed or an additional securing has to be implanted.

For fixed installations, wind loading has to be taken into account in accordance to the national standards

The connection should be performed by qualified technician, by ensuring that power is off.

Operating temperature with temperate climate: 0°C to +40°C (+32°F to +104°); -20°C à +60°C (-4°F to +140°F) for storage.

SAFETY INFORMATION

Read this manual before using the speaker.

Keep this manual available for further reference.

Observe all warnings and cautions.

Please check the NEXO Web site nexo-sa.com to get the most up-to-date version of this manual.

Ensure you are aware of the safety rules applying to rigging, stacking or installing on tripod or speaker stand. Failure to observe these rules may expose persons to potential wounds or even death.

Only use the system with accessories specified by NEXO.

Please always consult a NEXO-accredited technician if the installation needs architectural works and observe following precautions:

Mounting Precautions:

- Please select screws and mounting location supporting 4 times the system weight.
- Do not expose the system to excessive dust, vibrations, to extreme cold or hot temperatures, to reduce the risk of damaging components.
- Do not place the system in an unstable position: it could fall accidentally.
- If the system is used on a tripod, please ensure the tripod's specifications are adapted and that its height does not exceed 1.40m/55". Do not move the tripod with the system in position.

Connection and Powering Precautions:

- Unplug connected cables before moving the system.
- Power off the system before connecting the system.
- When switching on the installation, the amplifier must be powered last; when switching the installation off, shut off the amplifier first.
- If you work by cold temperatures, progressively raise the level to nominal value during the first minutes of use, to allow the system components to stabilize.

Please check regularly the system condition.

HIGH SOUND PRESSURE LEVELS

Exposure to very high sound pressure levels may cause permanent hearing losses. Degrees of hearing losses may be different from one person to another, but almost everybody will be affected if exposed to high sound pressure levels during a long period of time. The OSHA (Occupational Safety and Health Administration) American Agency specified the following maximal exposures:

Number of Hours	Sound Pressure Level (dBA), Slow Response
8	90
6	92
4	95
3	97
2	100
1 ½	102
1	105
½	110
¼ or less	115

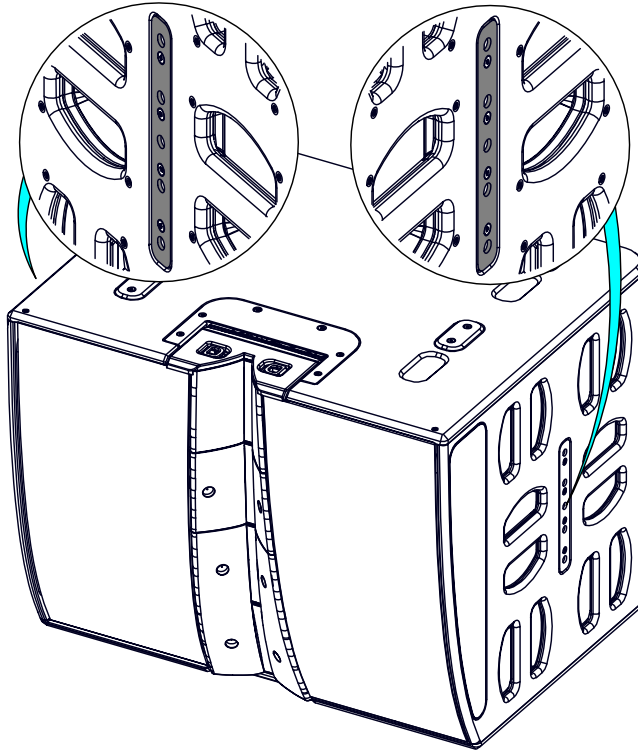
WASTE OF ELECTRIC OR ELECTRONIC EQUIPMENT



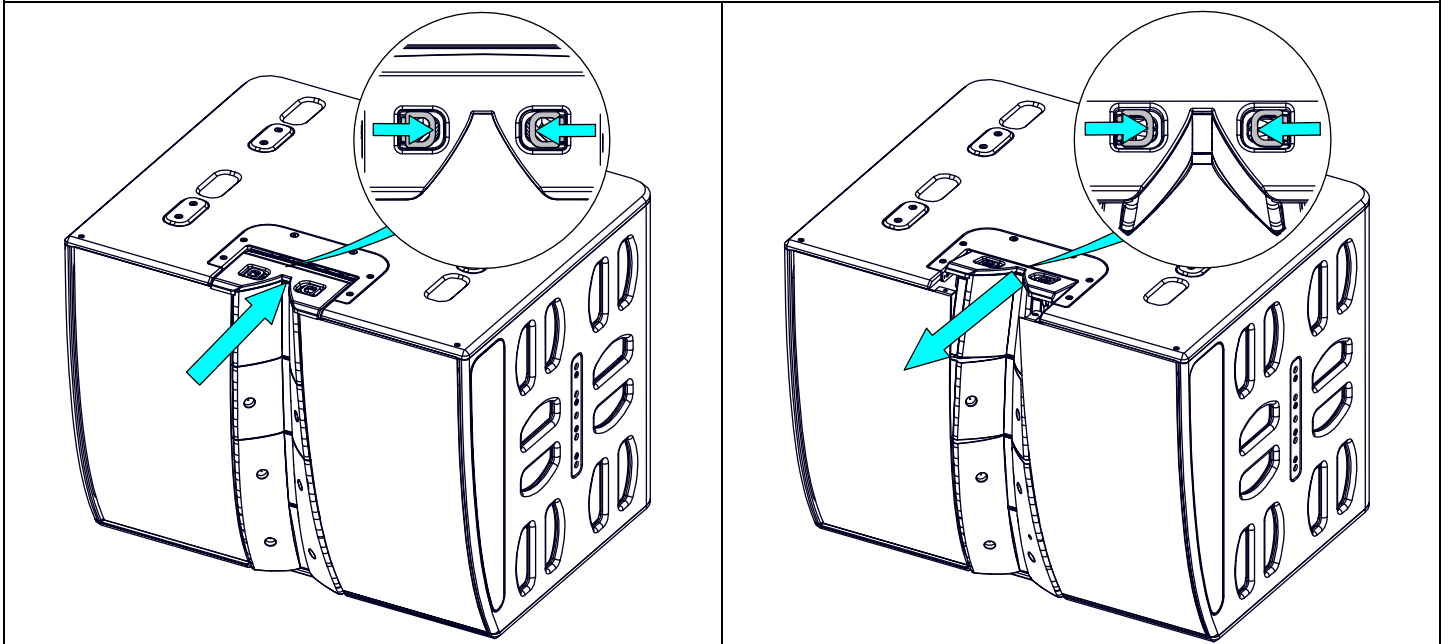
This symbol on the product or its packaging indicates that this product must not be treated as household waste. Instead, it is your responsibility to hand it over to a designated collection point for the recycling of waste electrical and electronic equipment. By ensuring your waste equipment is recycled, you will help prevent potential negative consequences for the environment and human health, which could appear if this product was not recycled. Recycling helps spare natural resources. For more information about the recycling of this product, please contact your local city office, your household waste disposal service or your reseller.

EQUIPMENT

2 locations for hanging.

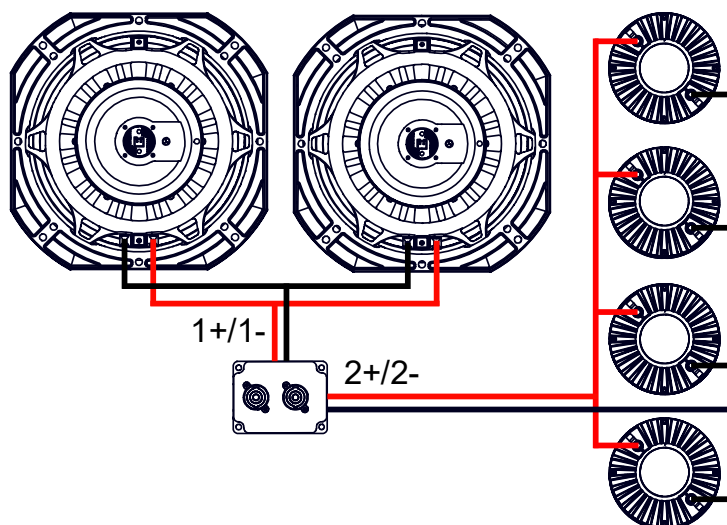
**Orientation HF**

Hold the 2 bolts while pushing the HF assembly backwards, release the bolts to lock.
Hold the 2 bolts while pulling the HF assembly forward, release the bolts to lock.



DESCRIPTION

- The M210 is a compact and powerful 2 ways system.
- The M210 is equipped with two Speakon NL4 connectors, with parallel-wired pins,
- M210 uses the 1+/1- and 2+/2- pins.



→ Amplification

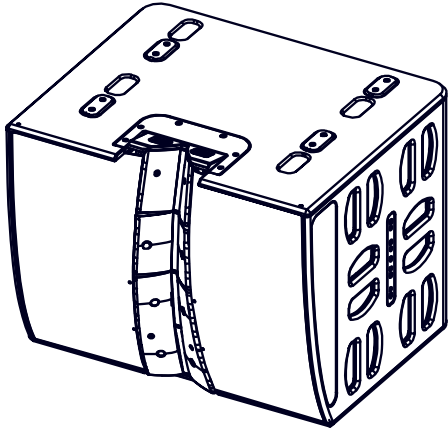
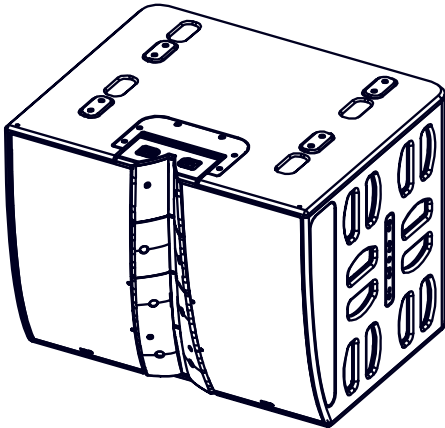
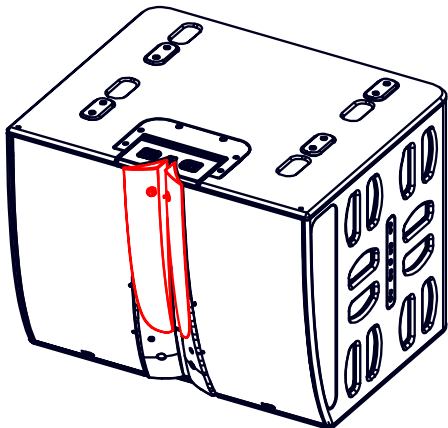
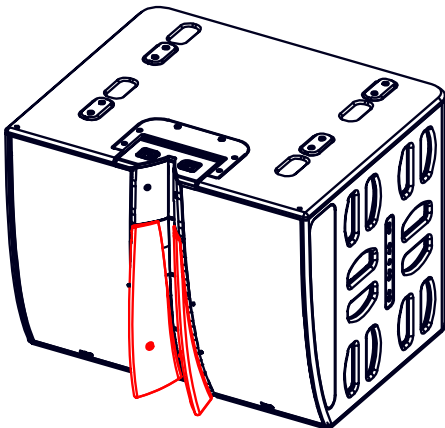
- The M210 must be used with a NEXO processor to handle EQ, phase alignment, crossover and excursion/thermal protection for the system loudspeaker.
- The following table shows the number of M210 subwoofers usable with each solution.

	SPEAKER TYPE	NXAMP4X1mk2	NXAMP4X2mk2	NXAMP4X4mk2
B218	Bass	1 per channel (bridged)	1 per channel (bridged)	Up to 2 per channel
L20	Sub	1 per channel (bridged)	1 per channel (bridged)	Up to 2 per channel
M210	2 ways active	Up to 2 per amplifier	1 on 2 channels	Up to 2 on 2 channels

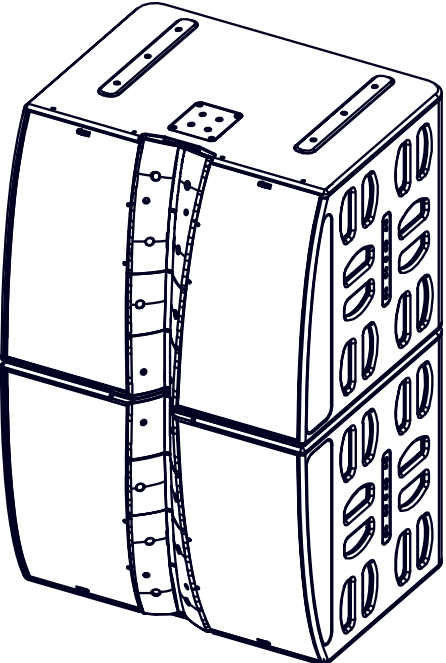
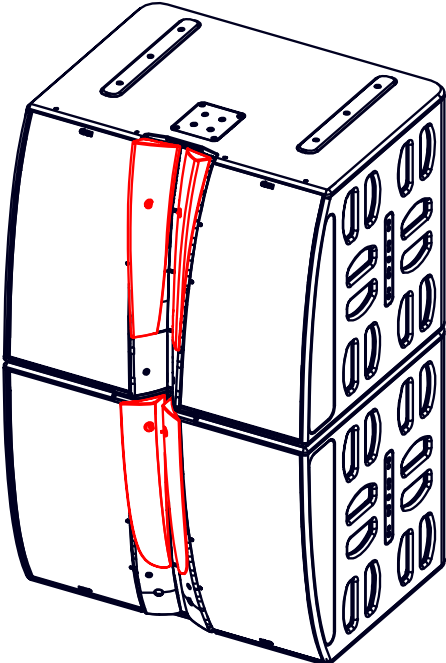
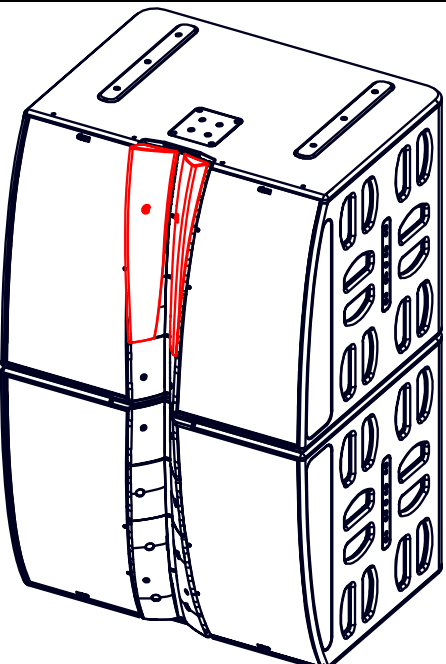
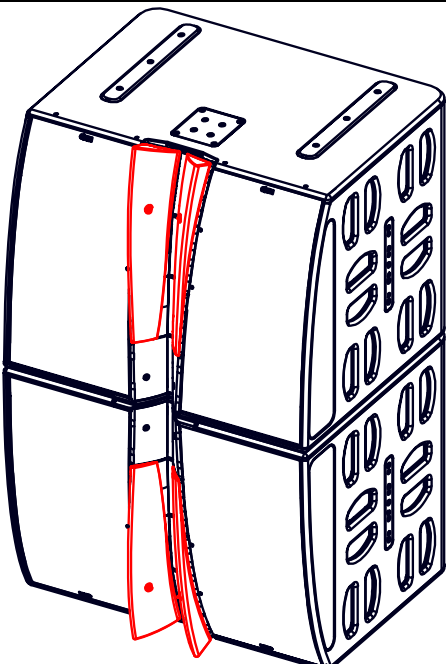
CONFIGURATION

➤ 1x M210

Wide position is the recommended default mode.

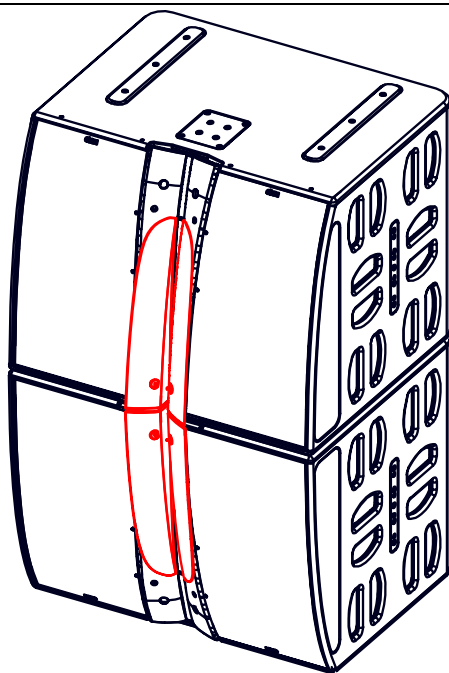
<p>Wide Position Without Flange Vertical Coverage: -20° to $+20^{\circ}$ Horizontal Coverage (from bottom to top): Progressive from 120° to 60° (PS Type)</p> 	<p>Narrow Position Without Flange Vertical Coverage: -20° to 0° Horizontal Coverage (from bottom to top): Progressive from 120° to 60° (PS Type)</p> 
<p>Narrow Position With ANT-FLG90 Vertical Coverage: -20° to 0° Horizontal Coverage (from bottom to top): Progressive from 120° to 90° (PS Type)</p> 	<p>Narrow Position With ANT-FLG60 Vertical Coverage: -20° to 0° Horizontal Coverage: 60°</p> 

➤ 2x M210

<p>Narrow Position Without Flange Vertical Coverage: -20° à $+20^{\circ}$ Horizontal Coverage (from bottom to top): $120^{\circ} - 60^{\circ} - 120^{\circ}$</p>	<p>Narrow Position ANT-FLG60 on the top M210 ANT-FLG90 on the bottom M210 Vertical Coverage: -20° à $+20^{\circ}$ Horizontal Coverage (from bottom to top): $120^{\circ} - 90^{\circ} - 60^{\circ}$</p>
	
<p>Narrow Position With ANT-FLG60 on the top M210 Vertical Coverage: -20° à $+20^{\circ}$ Horizontal Coverage (from bottom to top): Progressive from 120° to 60° (PS Type)</p>	<p>Narrow Position With ANT-FLG60 on both 2 M210 Vertical Coverage: -20° à $+20^{\circ}$ Horizontal Coverage: 60°</p>
	

Narrow Position

With ANT-FLG90 on both 2 M210

Vertical Coverage: -20° à $+20^{\circ}$ Horizontal Coverage (from bottom to top): $120^{\circ} - 90^{\circ} - 120^{\circ}$ 

PRESET

Please consult nexo-sa.com for NEXO TD Controllers firmware information.

The Alpha+ M210 must always be used with its companion bass module the B218
(ratio :1x B218 for 1x M210)

2x M210 Main modules can also be coupled upside down. In that case the 2x B218 should be immediately next to the 2x M210 modules or just below depending on stack height need.

The NEXO Alpha+ M210 two-way, mid and high-frequency main module can be arranged in several configurations, concerning vertical and horizontal directivity options.

Authorized amplifier channels

- M210 MF: NXAMPmk2 4x4 channels 1 & 3
- M210 HF: NXAMPmk2 4x4 channels 2 & 4

Wide Mode

- MF: preset name '**M210 MF Wide**'. Only one crossover mode 160 Hz-750 Hz available
- HF: preset name '**M210 HF Wide**'. Only one crossover mode 750 Hz-20 kHz available

Narrow Mode

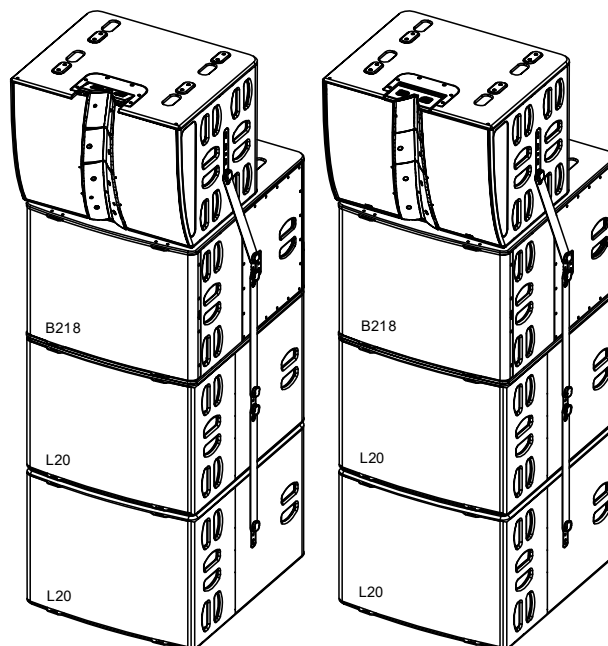
- MF: preset name '**M210 MF Narrow**'. Only one crossover mode 160 Hz-750 Hz available
- HF: preset name '**M210 HF Narrow**'. Only one crossover mode 750 Hz-20 kHz available

The NEXO Alpha+ system can be mainly deployed in '**Simple Stack**' or '**Double Stack**'.

When deployed in '**Double Stack**' configuration, the 'Array EQ Hi' control on the M210 module can be used to tailor the global mid-high frequency content, as to balance the low frequency build up of multiple adjacent NEXO L20s and B218s. It is suggested to set 'Array EG Hi' control to +6dB to maintain the same tonal balance as a '**Single Stack**' Alpha+ system.

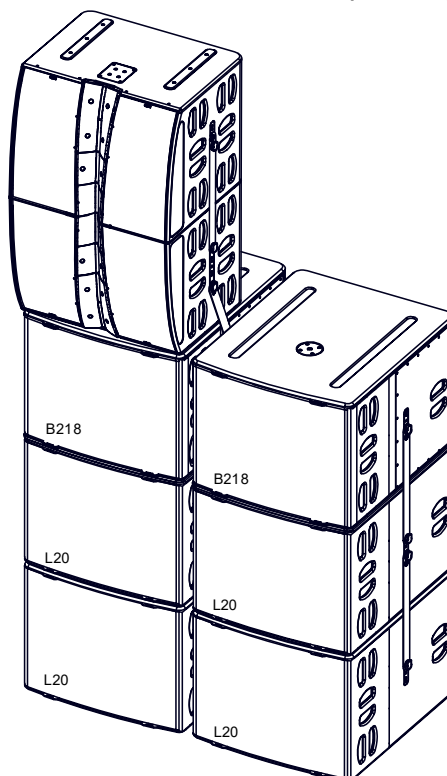
➤ STACK 1 Column:

1 or 2x L20 / 1x B218 / 1x M210 (Narrow – Wide)

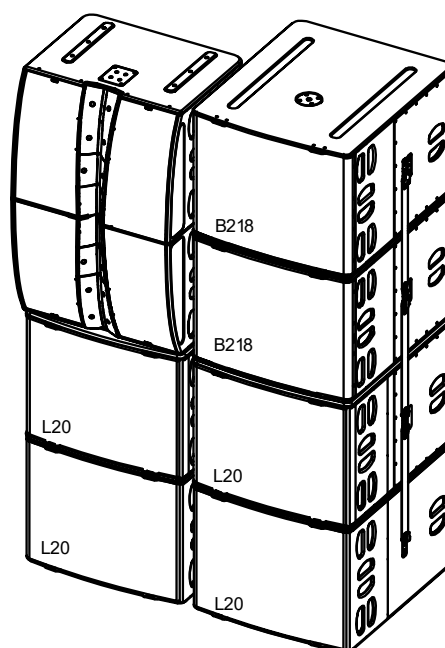
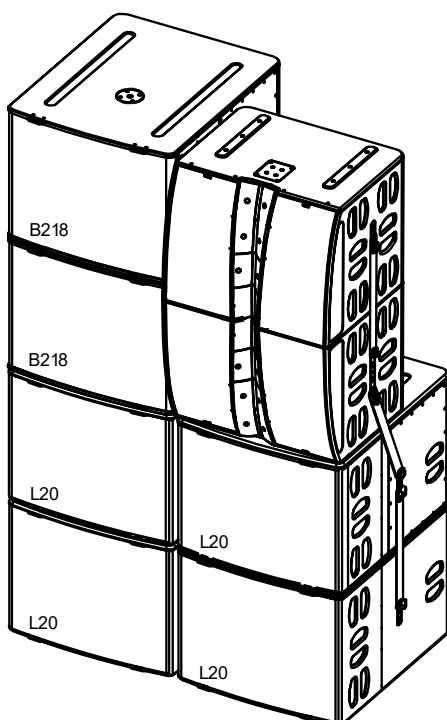


➤ **STACK 2 Columns**

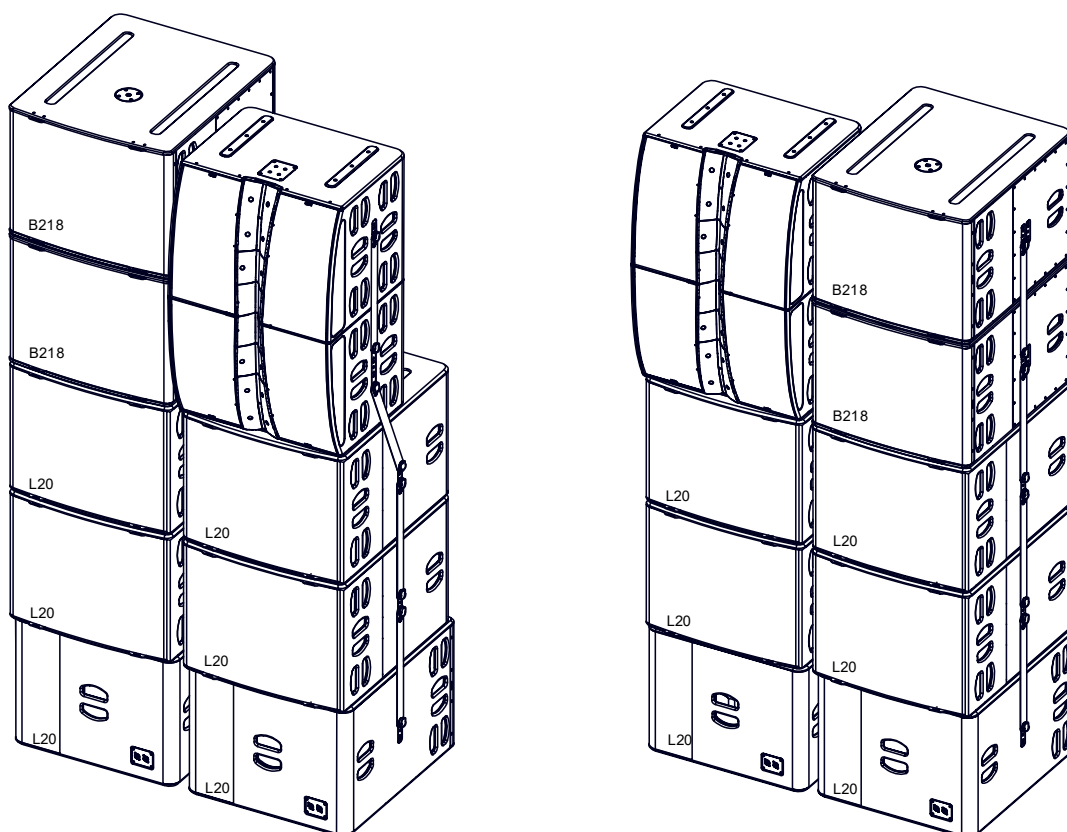
4x L20 / 2x B218 / 2x M210 (Narrow)



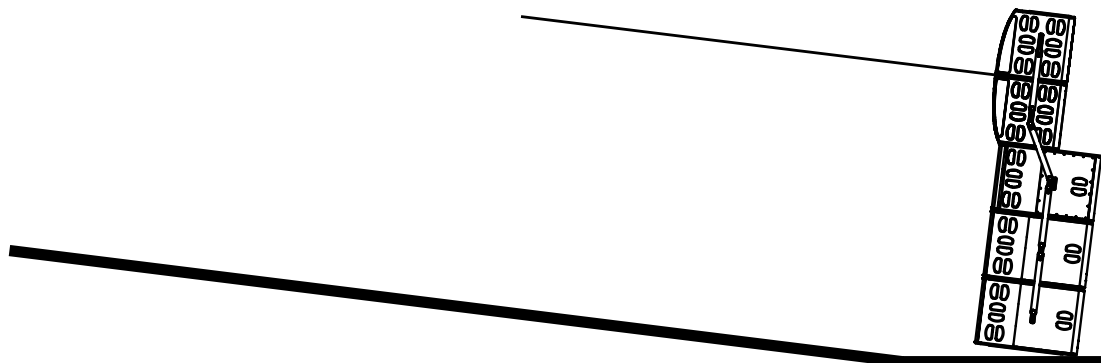
4x L20 / 2x B218 / 2x M210 (Narrow)



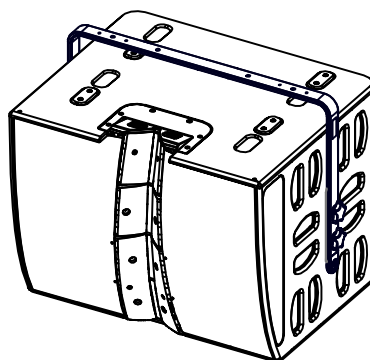
6x L20 / 2x B218 / 2x M210 (Narrow)



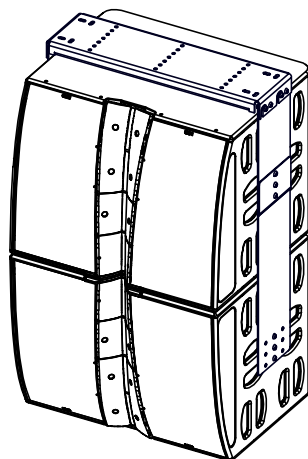
Tilt the unit so that the vertical HF dispersion axis is parallel to the audience floor.



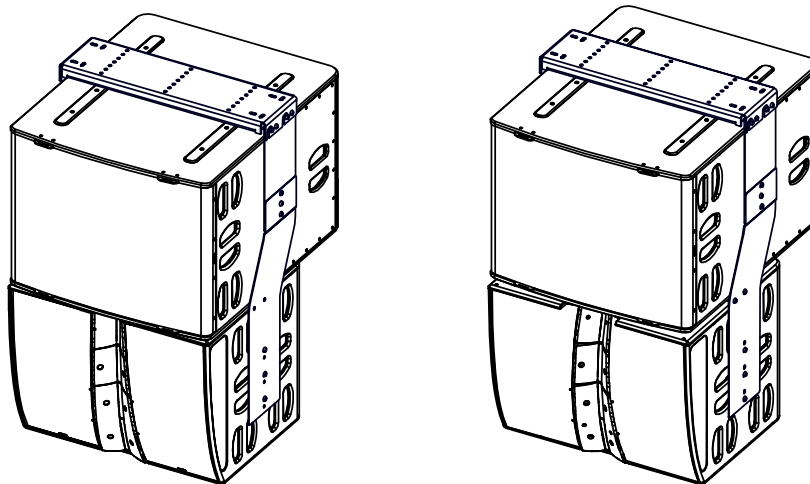
➤ **FLOWN 1: 1x M210 (Narrow – Wide)**



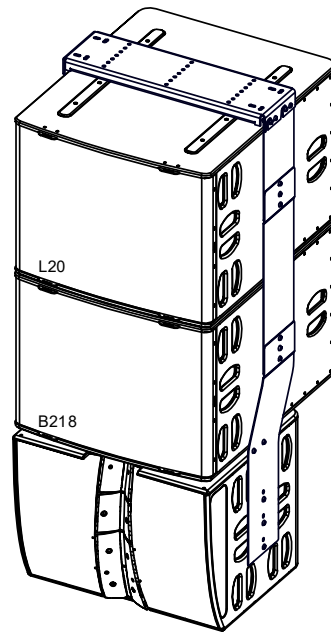
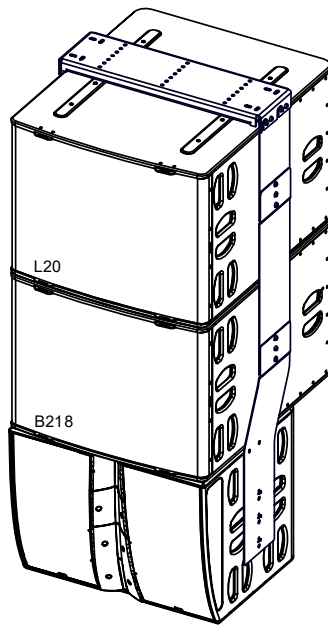
➤ **FLOWN 2: 2x M210 (Narrow)**



➤ **FLOWN 3: 1x B218 / 1x M210 (Narrow – Wide)**



➤ **FLOWN 4: 1x L20 + 1x B218 + 1x M210 (Narrow – Wide)**



ACCESSORIES

WARNINGS

All M210 accessories are specifically rated in agreement with structural computations.

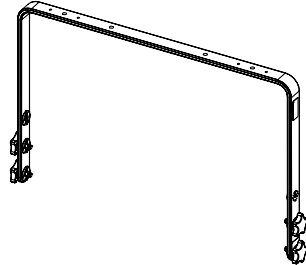
Never use other accessories – including push-pins – when assembling M210 cabinets than the ones provided by NEXO: NEXO will decline responsibility over the entire M210 accessory range if any component is purchased from different supplier.

All M210 accessories have been designed so that cabinet are arrayed vertically.

PROHIBITED: M210 below M210 or M210 below B218/L20 without dedicated accessory

VNU-HBRK01 (LNU-HBRK20)

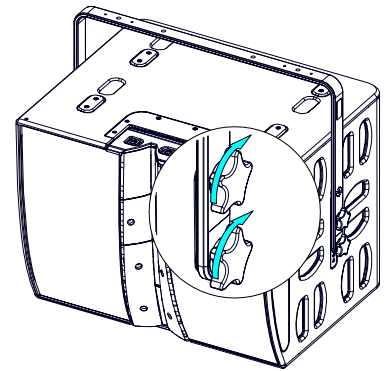
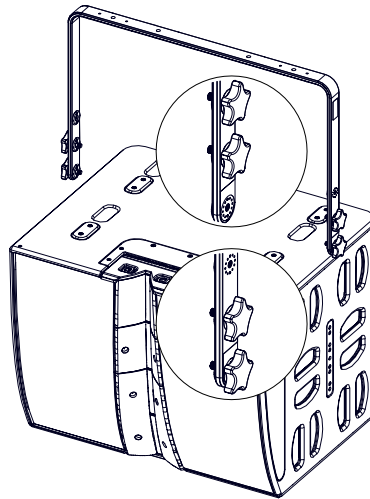
Horizontal Cradle, use with M210 CLADAPT.



Place VNU-HBRK01 on M210, use only fasteners provided.

Tight properly.

Refer to the Product Data Sheet.



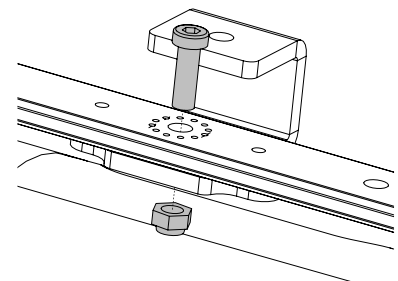
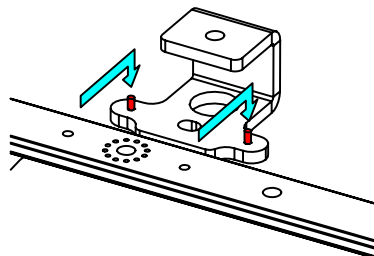
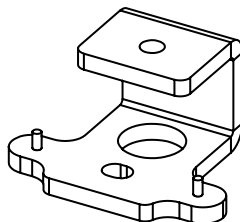
VNI-CLADAPT (PNI-CLADAPT)

Ceiling adapter, use with VNU-HBRK01.

Screw CLADAPT to the ceiling (fasteners not provided).

Place the assembly on CLADAPT, use the 2 guides. Tight with the fasteners provided with CLADAPT.

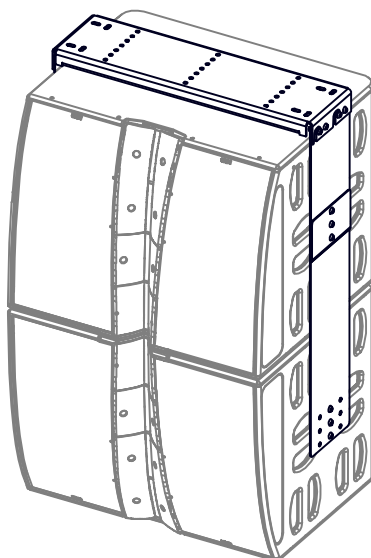
Refer to the Product Data Sheet.



ANI-LK01

Rigging System M210 sous M210

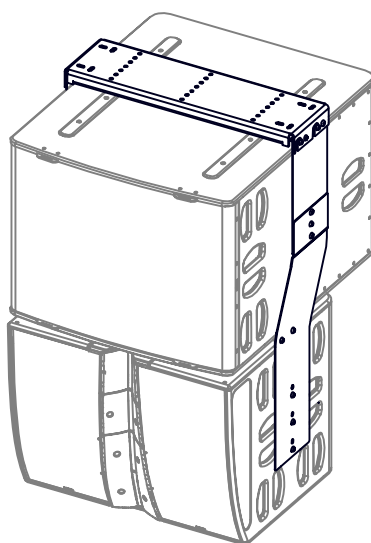
Refer to the Product Data Sheet.



ANI-LK02

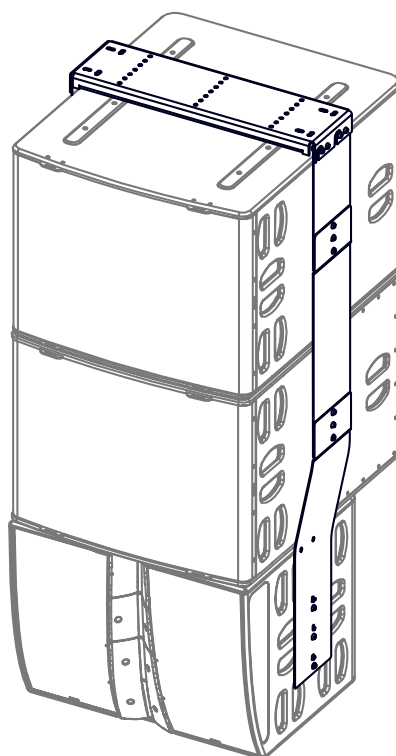
Rigging system M210 under 1x B218

Refer to the Product Data Sheet.



ANI-LK03

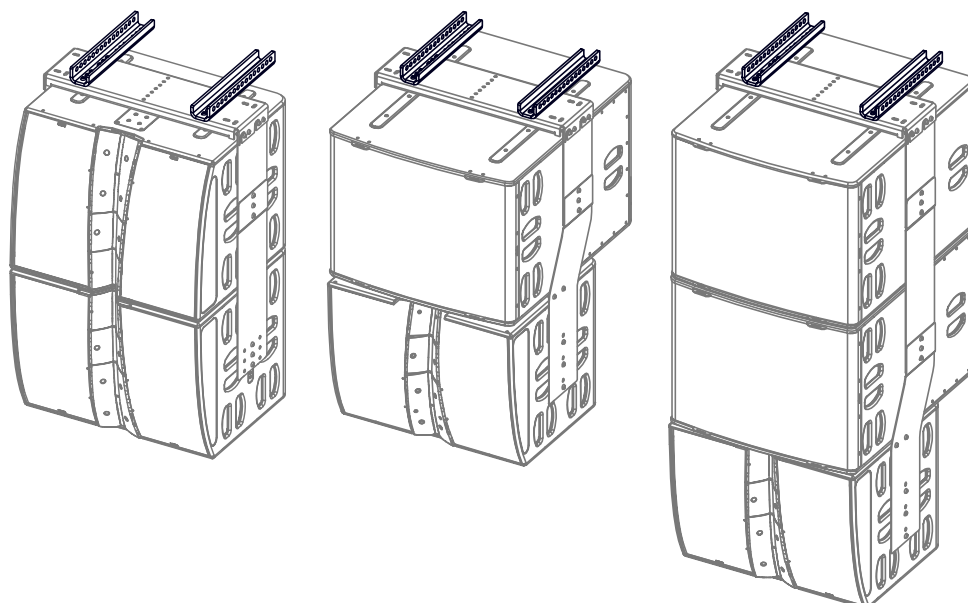
Rigging System M210 under B218 + L20



Refer to the Product Data Sheet.

ANI-EXB01

Kit barres d'extension pour ANI-LKxx

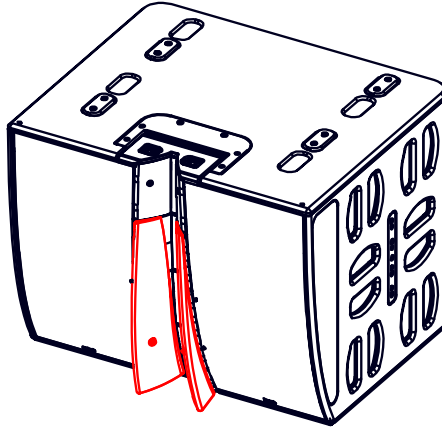


Refer to the Product Data Sheet.

ANT-FLG60

Flange 60° for M210

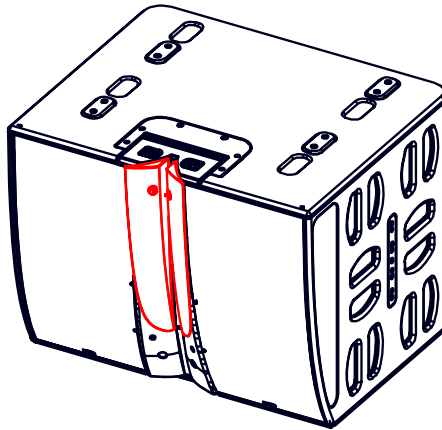
Refer to the Product Data Sheet



ANT-FLG90

Flange 90° for M210

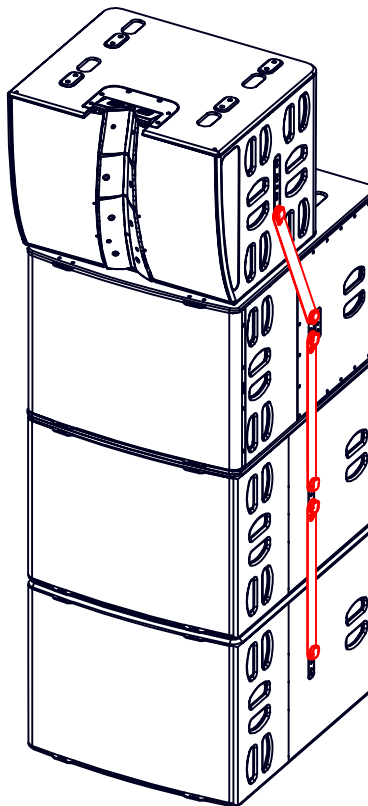
Refer to the Product Data Sheet



VNT-CPL04

Link B218/M210 – M210/M210

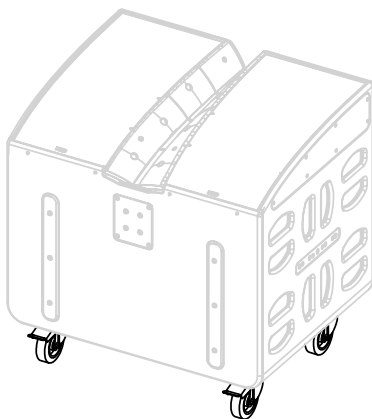
Refer to the Product Data Sheet



VNT-CAS01

Kit casters

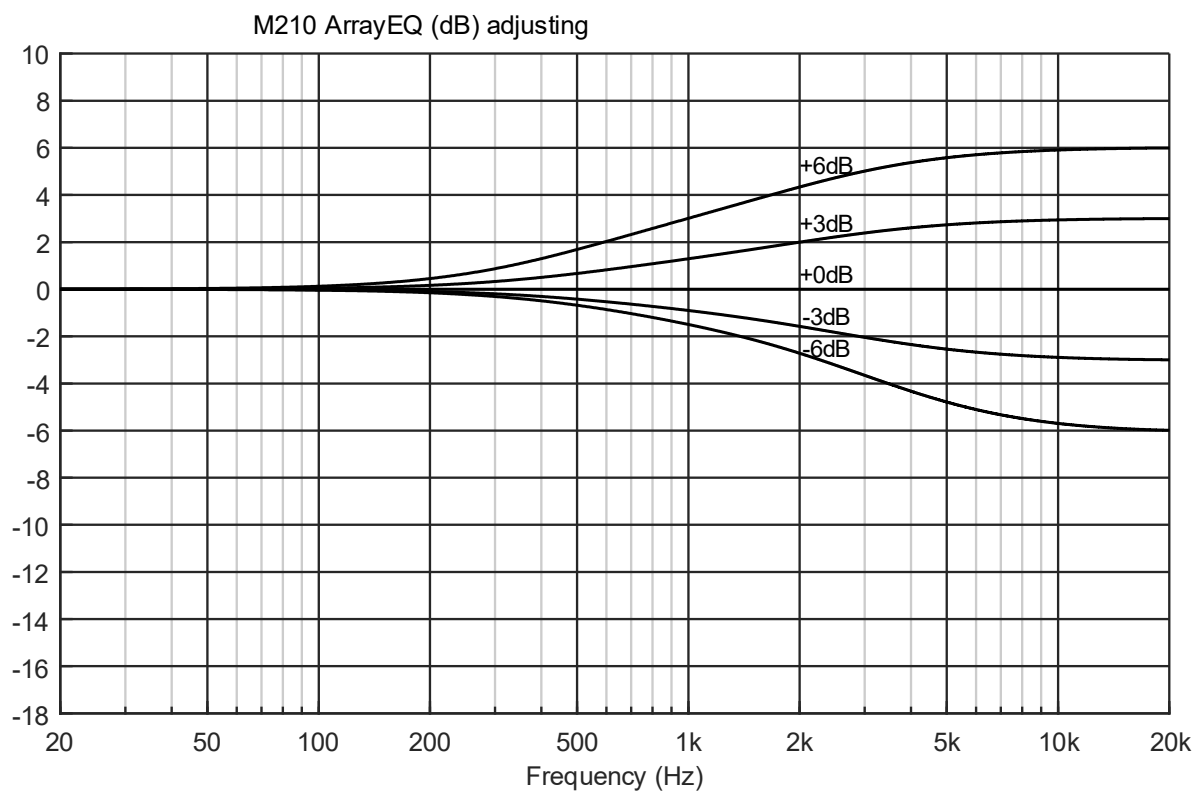
Refer to the Product Data Sheet



ANT-COVM210 : COVER FOR M210

ARRAY EQ

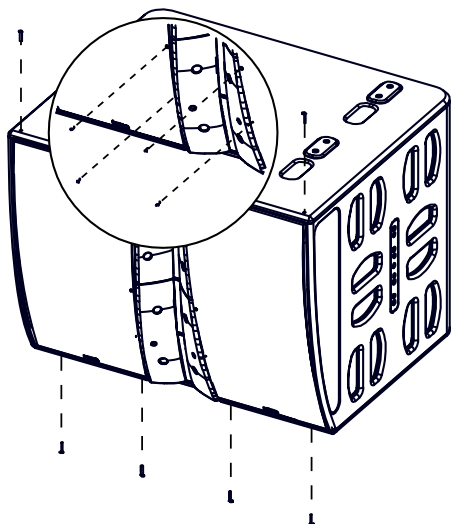
The ArrayEQ allows to adjust the system frequency response in its lower range
(see curves below, with different ArrayEq values):



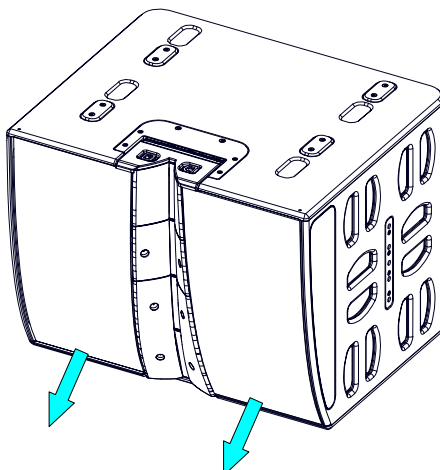
MAINTENANCE

Grille Changing: Remove 8 screws

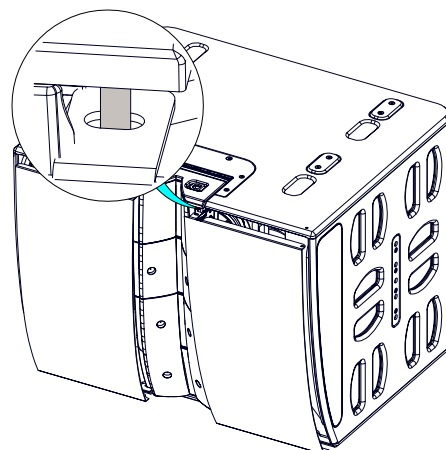
Remove 2 screws from bottom and one from top corner



Pull the bottom of the grille forward..



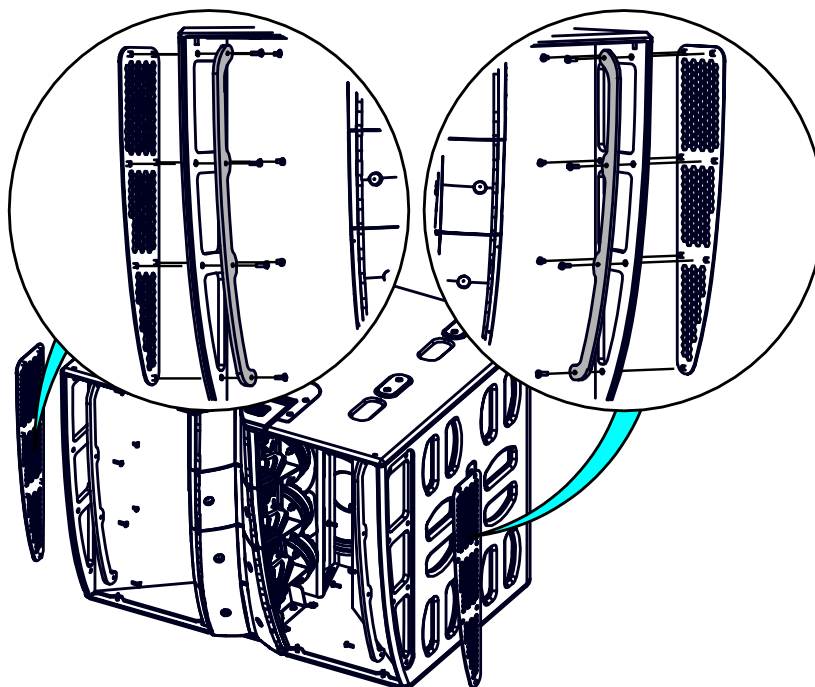
Release the grille from the lug at the top of the HF block.



Side Grille Changing

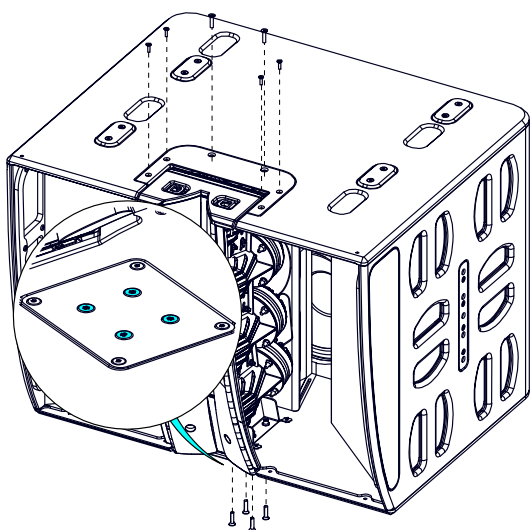
Remove the 7 screws on each side, remove the side grilles

When reassembling, **pay attention** to screw lengths: the 4 longest are for the inner side.

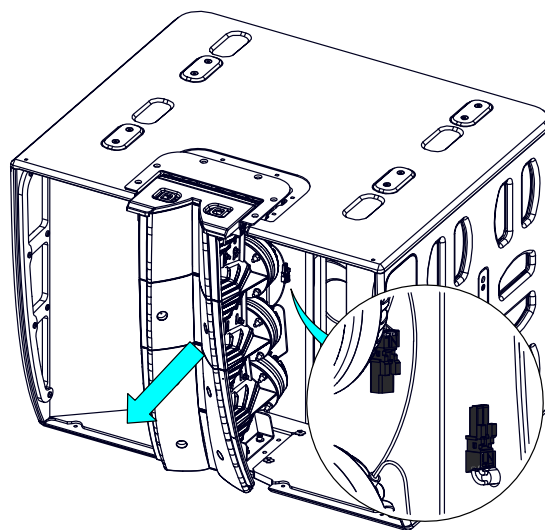


Removing HF Block

Remove 4 screws on the bottom.
Remove 6 screws on the top.

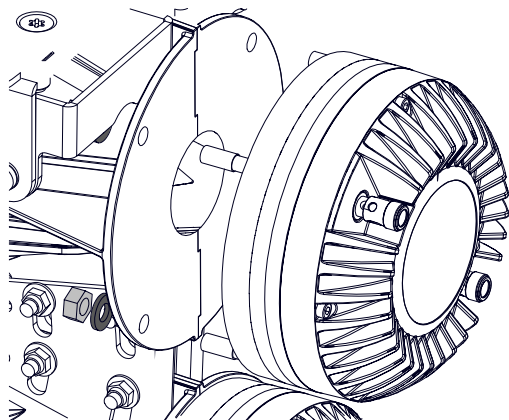


First release the bottom of the HF block, then the top.
Be careful not to trap your fingers in the HF guides.
Disconnect cable

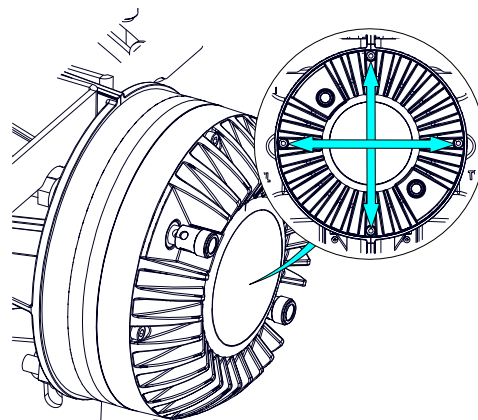


Removing HF

Remove 4 nuts + washers. Pull HF motor back.



Remove 4 screws to access diaphragm.

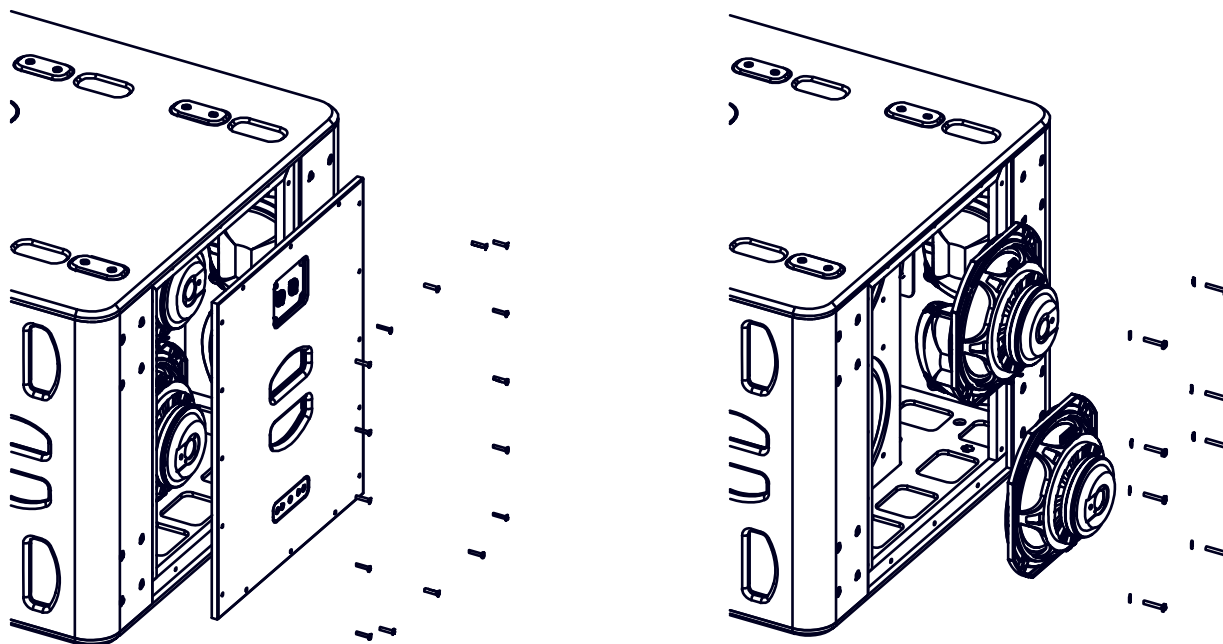


Removing 10" Drivers

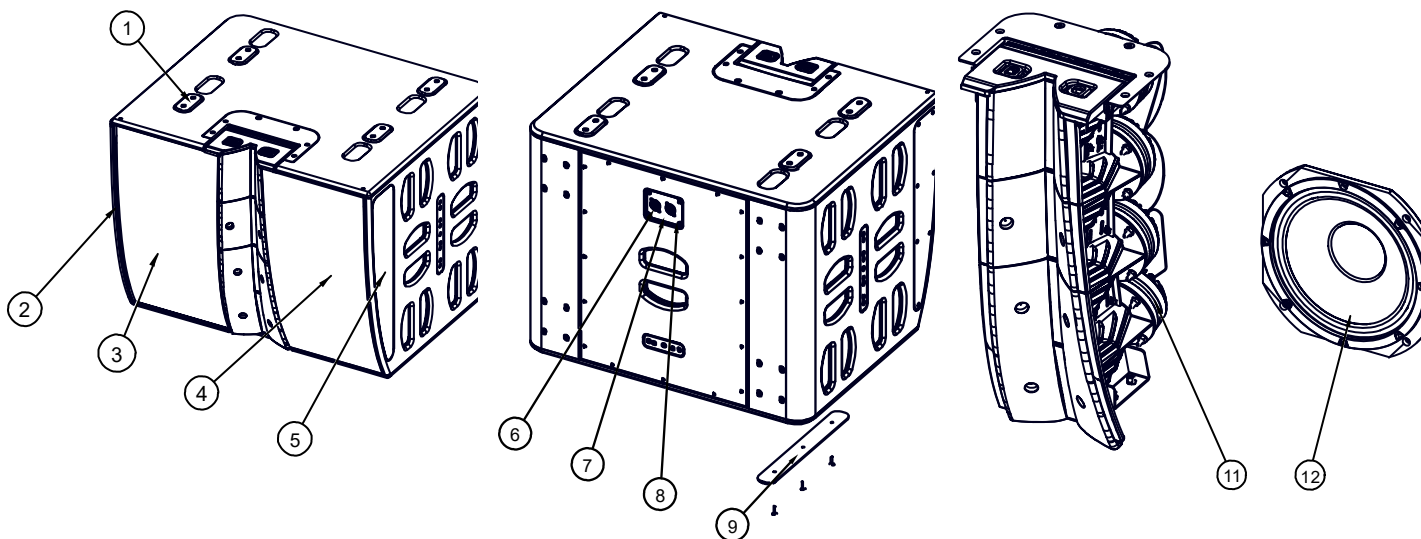
MAINTENANCE

Retirer les 16 vis. Disconnect wires from CNX and Drivers 10".
Retirer la trappe.

Retirer les vis pour sortir les haut-parleurs



Spare parts



MARK	QUANTITY	REFERENCE	DESIGNATION
1	4	05SKID02	Top rubber Skid Black (with fasteners)
	4	05SKID02-PW	Top rubber Skid White (with fasteners)
2	1	05M210UA-LS	Complete side left grille Black (with fasteners)
	1	05M210UA-LSPW	Complete side left grille White (with fasteners)
3	1	05M210UA-L	Complete left grille Black (with fasteners)
	1	05M210UA-PWL	Complete left grille White (with fasteners)
4	1	05M210UA-R	Complete right grille Black (with fasteners)
	1	05M210UA-PWR	Complete right grille White (with fasteners)
5	1	05M210UA-RS	Complete side right grille Black (with fasteners)
	1	05M210UA-RSPW	Complete side right grille White (with fasteners)
6	1	05LEXCNX-M210	Lexan CNX M210 Black
	1	05LEXCNX-M210PW	Lexan CNX M210 White
7	1	05CNX2SP44T	Connection plate Black without lexan (with fasteners)
	1	05CNX2SP44T-PW	Connection plate White without lexan (with fasteners)
8	2	05CNXNL4MDV-1	Speakon NL4 MDV1
9	2	05SKID03	Rubber Skid Black (with fasteners)
	2	05SKID03-PW	Rubber Skid White (with fasteners)
10	4	05HPADE78TN-16	Hf Driver 3" Output 1.4" Neodymium - 16 Ohm

MAINTENANCE

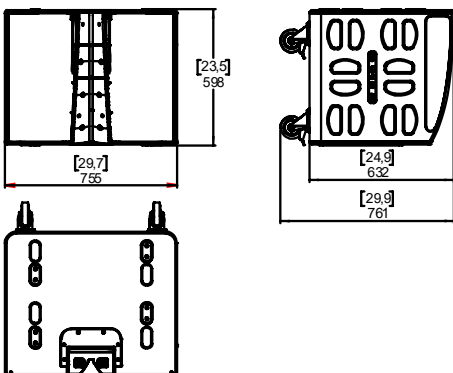
	1	05NH78TN-16R/K	Hpade780tn-16 Diaphragm
11	2	05HPB10-4	Hp 10" Bass Neodymium 4 Ohms
	1	05HPB10-4R/K	Recone Kit For Hp 10" Bass Neodymium 4 Ohms

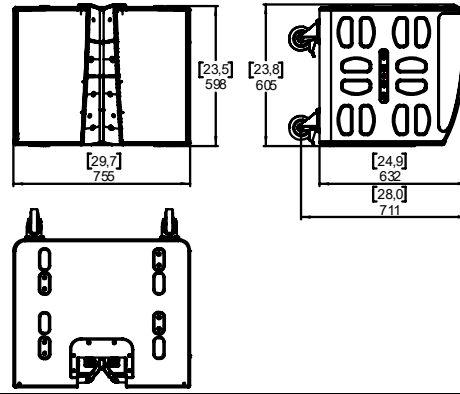
TECHNICAL SPECIFICATIONS

M210 WITH NEXO ELECTRONICS

Model	M210
Frequency range (± 6 dB)	160 Hz – 20 kHz
Peak SPL Level (1m)	148 dB Peak
Operating voltage	45 Vrms (150 Vpeak)
Crossover Frequency	500 Hz to 1500 Hz overlap, optimized with proprietary software NEXO Polar Combiner
Vertical Directivity	Adjustable: Wide ($-20^{\circ}/+20^{\circ}$) or Narrow ($-20^{\circ}/+0^{\circ}$)
Horizontal Directivity	120° (Bottom) to 60° (Top) continuously (PS Type)
Nominal Impedance	4 Ω + 4 Ω

SPECIFICATIONS

Model	M210
Components	MF: 2x High-efficiency pure medium neodymium 10" – 8 ohms HF: 4x neodymium 3" voice coil, 1.4" throat driver on BEA/FEA optimized Wavesource
Material	Baltic birch / Poplar plywood
Finish	Black or white structural paint
Front finish	Magnelis® Steel front grille
Fittings	Handles on both sides Threated inserts on both sides for connection of mounting accessories Threated insert on the back for connection of universal accessory
Connector	2x NL4, 4 poles connectors
Weight	53 kg / 117 lb
Dimensions [inch] - mm	<p>Narrow Position</p>  <p>Wide Position</p>



USER NOTES

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