

KIT DE MONTAJE OPENAIR PLUS PARA ESCOTILLAS 70X50

OPENAIR PLUS MOUNTING KIT FOR 70X50 HATCHES

KIT DE MONTAGE OPENAIR PLUS POUR ÉCOUTILLES 70X50

MONTAGESATZ OPENAIR PLUS FÜR LUKEN 70X50

KIT DI MONTAGGIO OPENAIR PLUS PER TETTUCCI 70X50

Referencia: 1004130756



OpenAir Plus

INSTRUCCIONES DE MONTAJE

ES

MOUNTING INSTRUCTIONS

EN

INSTRUCTIONS DE MONTAGE

FR

MONTAGEANWEISUNGEN

GE

ISTRUZIONI DI MONTAGGIO

IT

Firstly, may we congratulate you on your decision to purchase the 12 V **OPENAIR PLUS** air conditioning unit from our **Caravaning** range. You are now the owner of a high-performance air conditioning unit manufactured by **Dirna Bergstrom** for use in mobile homes and other recreational vehicles, with or without the engine running.

OPENAIR PLUS is a technologically advanced solution that optimises performance and reduces energy consumption in your vehicle's auxiliary battery. These are the features that make it unique on the recreational vehicle climate control market.



Read this document carefully before

installing the product. Keep this document for future reference. The original documentation was written in Spanish, all other languages are translations.

All product manuals are available in digital version (PDF) at

<https://bergstrominc.com/es/>

All sales and warranty transactions are subject to the latest version of our general terms and conditions of sale, as published on our website

<https://bergstrominc.com/es/>

The manual includes the latest technological advances in this range at the time of publication. However, continuous improvement means there may be minor differences.

Explanation of symbols



- **Warning:** A safety alert indicating a situation which, if not avoided, could result in death or serious injury.



- **Hazard:** Cutting hazard. Indicates a situation that could lead to cuts.



- **Hazard:** Electrocution hazard. Indicates a situation that could lead to electrocution.



- **Alert:** Safety alert informing about a situation which, if not avoided, could result in damage to the unit or other materials.



- **Information:** Additional information on installing or handling the product.



- **Fragile:** Indicates a situation in which care must be taken to avoid damage to the unit and other materials.



Explanation of liabilities

- **Dirna Bergstrom** accepts no liability for any damage caused in the following cases:

- Damage to the product due to mechanical influences and surges.
- Modifications to the equipment without the manufacturer's express consent.
- Use of the equipment for purposes not described in this document.
- Improper handling or installation of the air conditioning unit.

- When installing **OPENAIR PLUS** on the roof, bear in mind that vehicles with a skylight normally have a structure strong enough for the weight of the unit. However, whenever it is necessary to make a cut in the roof, or when the roof material used with the skylight is not strong enough (fibreglass, plastic, etc.), **the installer must decide, under his/her sole responsibility**, on the need to reinforce the roof in order to avoid any deformation, breakage, water ingress, etc., and must provide the necessary means to prevent this from happening.

OPENAIR PLUS is a versatile unit that can be installed every 180° in order to adapt to the available space on the vehicle's roof, meaning it does not interfere with the rest of the accessories.



Warnings during assembly

- This equipment may only be installed, repaired, and maintained by technical personnel with due training in vehicle air conditioning, potential hazards and applicable standards.
- Read the assembly instructions carefully before installing **OPENAIR PLUS**. Follow the instructions carefully during installation.
- Switch off the ignition key before starting to install the unit.
- Disconnect the vehicle's battery before starting to install **OPENAIR PLUS**.
- Install **OPENAIR PLUS** securely to prevent it from falling.
- Use appropriate tools for each operation.
- During installation, ensure the connection of the electrical components, checking that they are fitted correctly.

- If the cable passes through sharp-edged walls during installation, use ducts or guides to prevent any damage to it.



- **Important alert:** Make sure the polarities are not reversed when connecting the unit. If this happens, the control board will not come on and the unit will not work.



Proper use of the product

- **OPENAIR** is a high-performance roof-mounted air conditioning unit for use in motorhomes and other recreational vehicles. Installation in any other type of vehicle is not recommended.
- Using it in any way other than as envisaged will void the unit's warranty and exempt the manufacturer from any liability.
- See the product's user manual if you are not sure how to use **OPENAIR PLUS**.

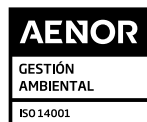
Dirna Bergstrom uses excellence assurance processes in accordance with international quality management standards ISO 9001, Automotive Quality IATF 16949, and Environmental Management ISO 14001 to ensure the highest quality of its products. Certified by IQNet Quality System.



ER-0022/1999



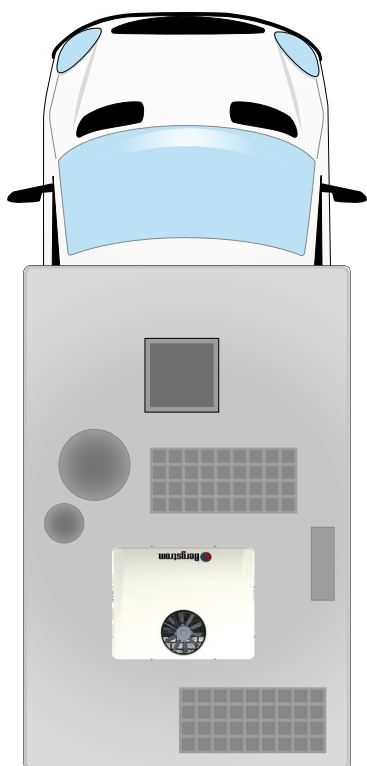
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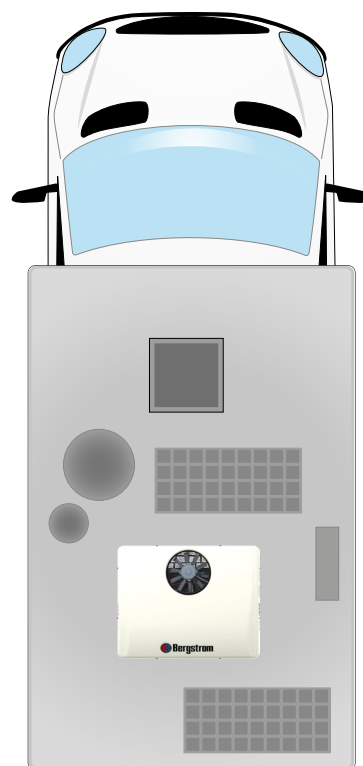
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ASSEMBLY OPTIONS



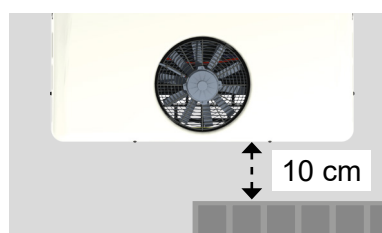
UNIT POSITION IN
DIRECTION OF TRAVEL



UNIT POSITION AGAINST
DIRECTION OF TRAVEL



Attention: To ensure proper ventilation of the equipment and avoid poor operation, a space of at least 10 cm must be kept clear along the back of the unit.





Caution: OPENAIR PLUS can only be installed in vehicles with a 70x50 hatch that are equipped with:

- Roof 30 to 60 mm thick

1

Remove the 70x50 hatch and the frame of the vehicle where the **OPENAIR PLUS** will be installed.



2

Place the EPDM 25x15 mounting seal from the adaptation kit around the hatch opening.



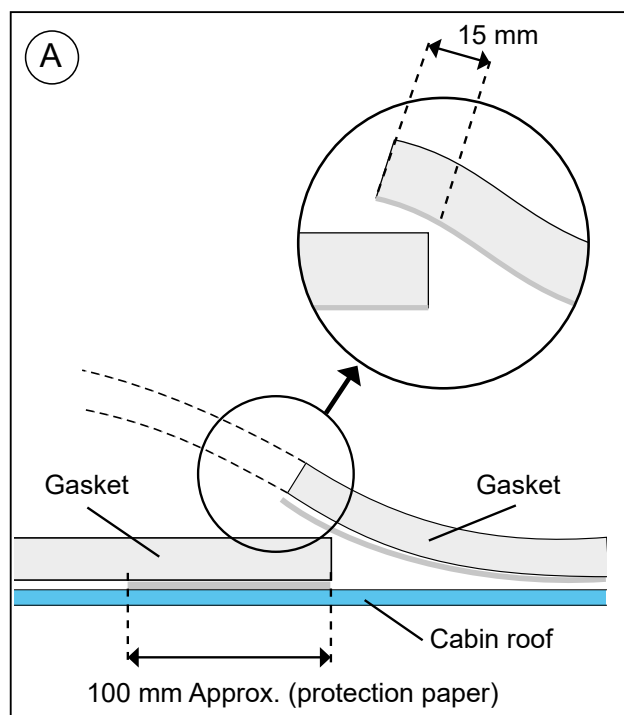
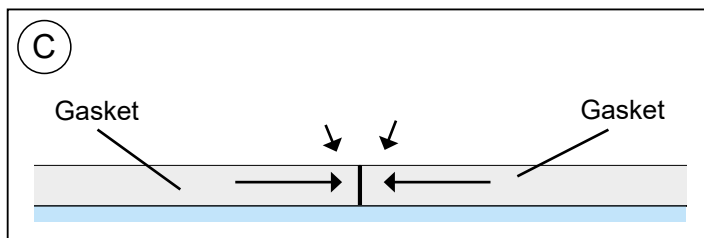
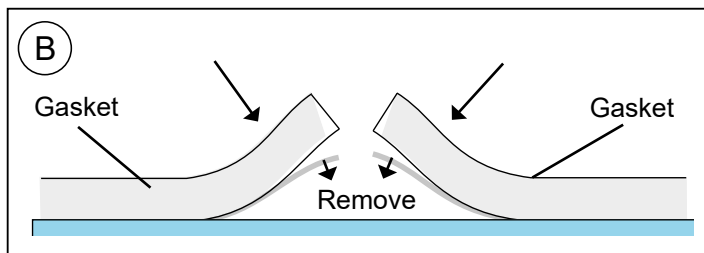


HOW TO CUT EPDM GASKET TO AVOID WATER FILTRATION INTO THE CABIN

A- Glue gasket, keeping 100 mm of protection paper at each side.

B- Remove the two pieces of paper.

C- Glue by pressing both ends.

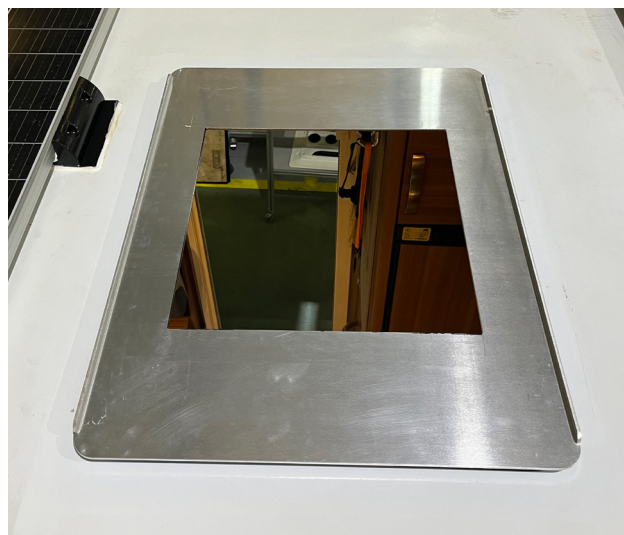
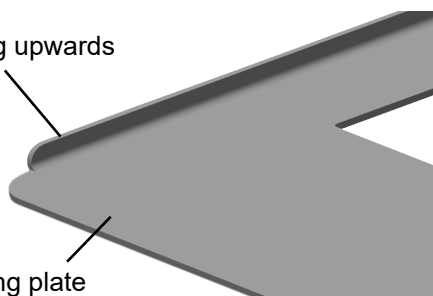


3

Fit the coupling plate on the EPDM seal, aligning it on the hatch frame in the position shown.

Tab facing upwards

Coupling plate



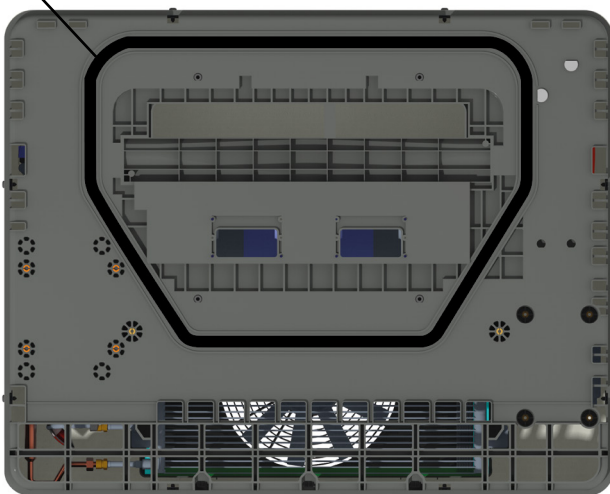
4

Lift the unit and attach the 25x25 EPDM seal on the base of the unit, following the marked area.

Caution: If the EPDM seal is installed in any other location, the equipment will not work properly and may cause the ingress of water.

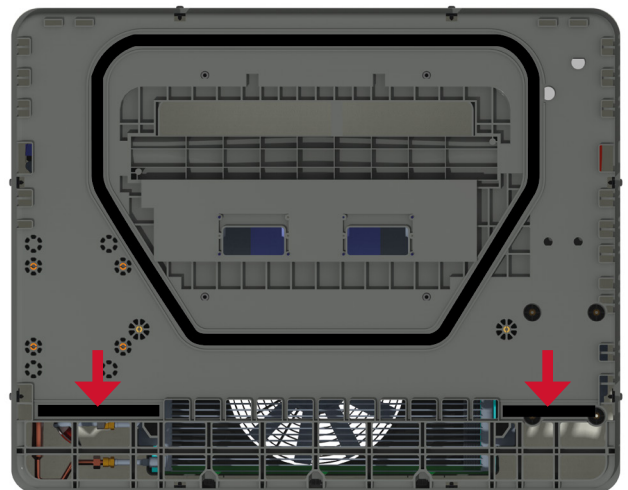
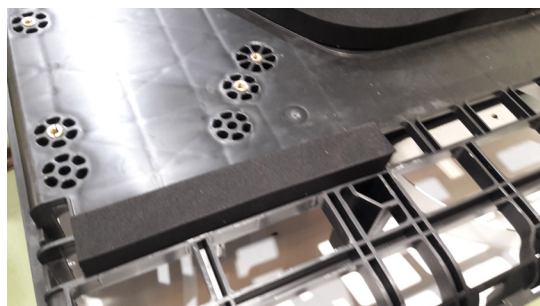


EPDM seal



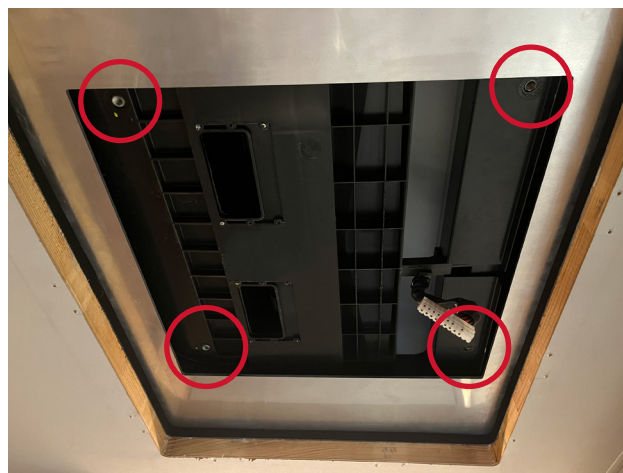
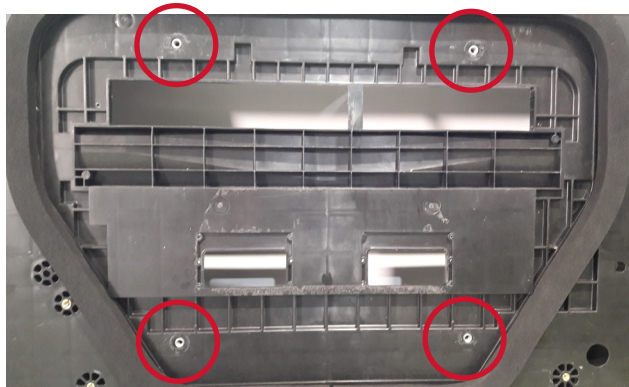
5

Fit the two (2) rear EPDM gasket blocks (100×30×20 mm), supplied in the unit's bag, to the base of the unit at the indicated positions.



6

Place the unit on the roof by aligning it from inside, ensuring that the (4) fastening brackets on the base of the unit are aligned in the space in the roof.



7

Screw into the maximum (4) M8x70 studs at the fixing points on the base of the unit.



8

Caution: Depending on the thickness of the vehicle's roof, the following number of separators should be installed before placing the fixing hexagons on the studs.

Thickness 30 mm: No separator.

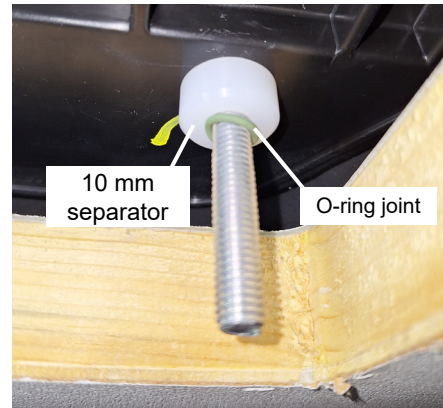
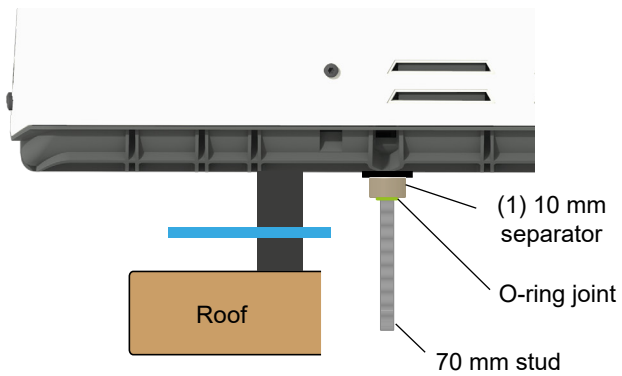
Thickness 40 mm: Fit (1) 10 mm separator

Thickness 50 mm: Fit (2) 10 mm separator

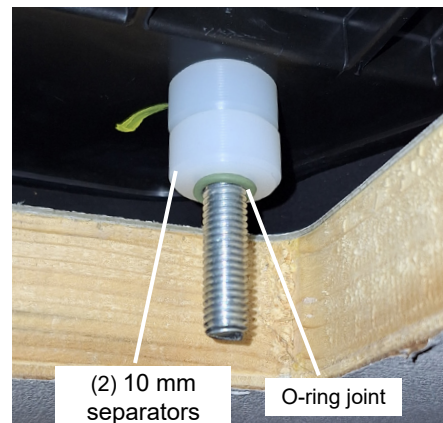
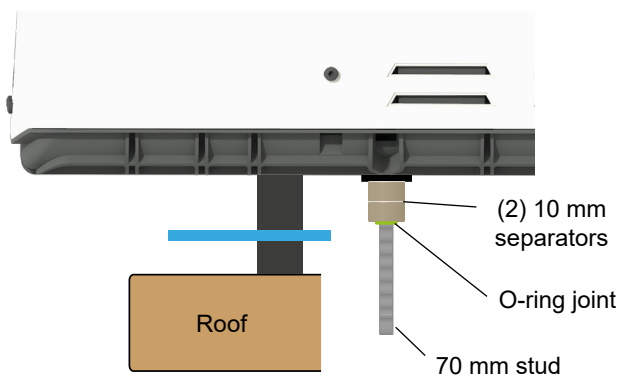
Thickness 60 mm: Fit (3) 10 mm separator

Place the O-ring as indicated to prevent the spacers from falling.

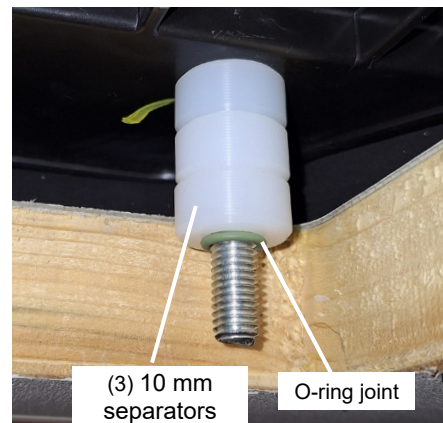
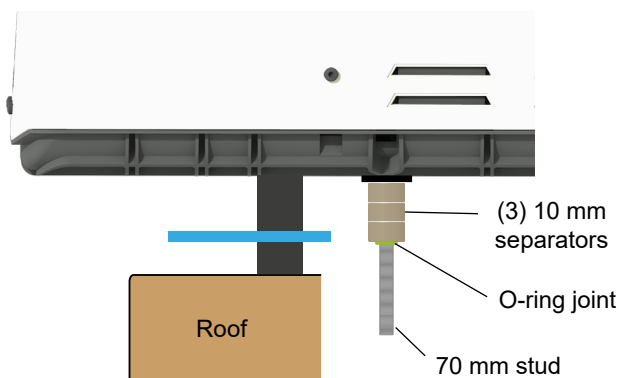
40 mm roof thickness



50 mm roof thickness

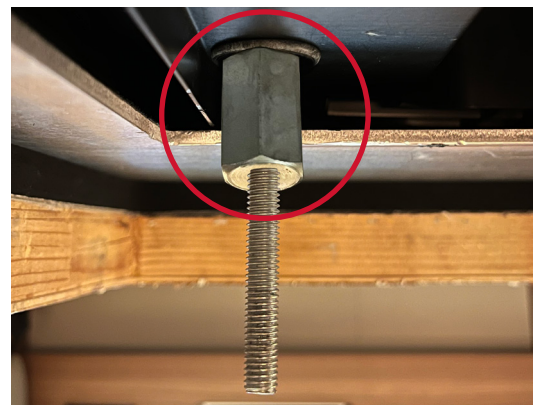


60 mm roof thickness

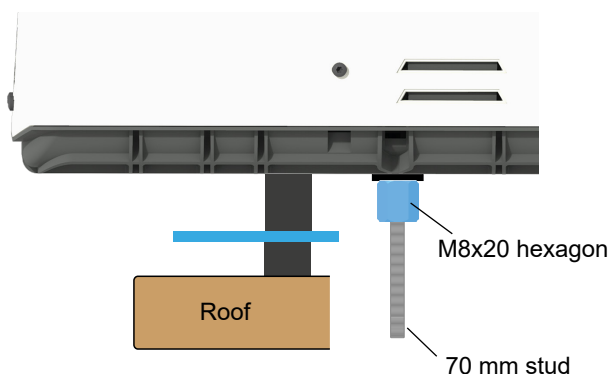


9

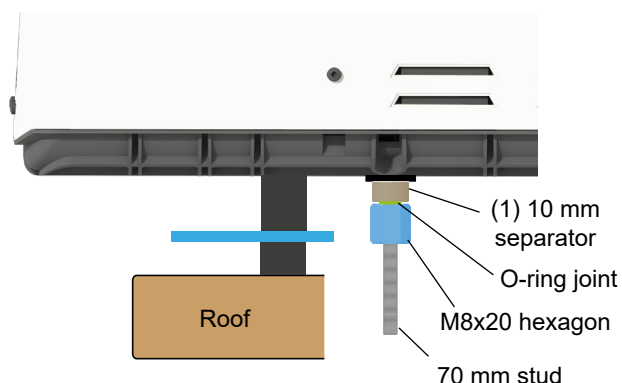
Mount and tighten (4) M8x20 hexagons.



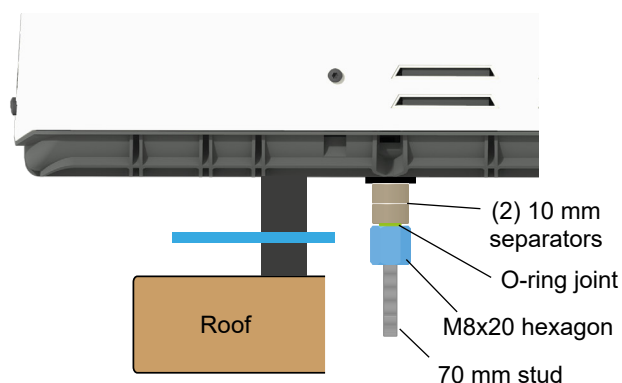
30 mm roof thickness



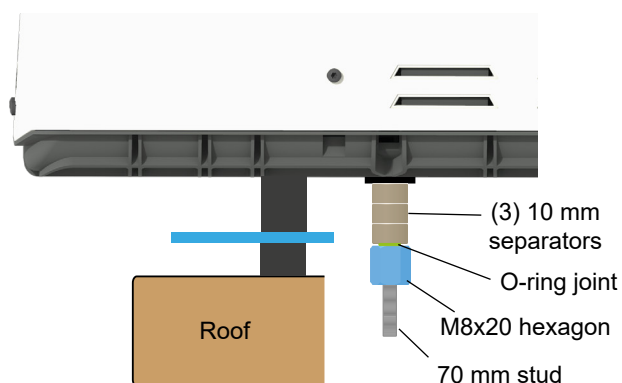
40 mm roof thickness



50 mm roof thickness



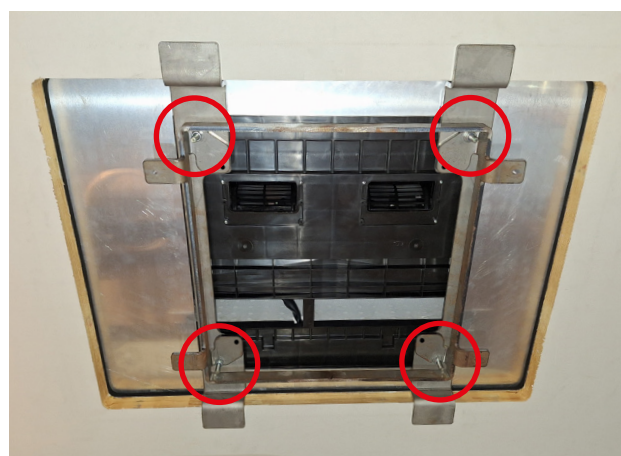
60 mm roof thickness



10

Mount the bracket included with the unit together with the two (2) brackets supplied in the kit onto the four (4) M8×70 studs, using four (4) 8 mm flat washers and four (4) M8 self-locking nuts.

Important: Do not tighten the self-locking nuts, only position the brackets.



11

Position the console by first inserting one side into the bracket, aligning it with the two fixing tabs on the interior console. Then slide it towards the opposite side to engage it with the two tabs on the other side of the bracket.



12

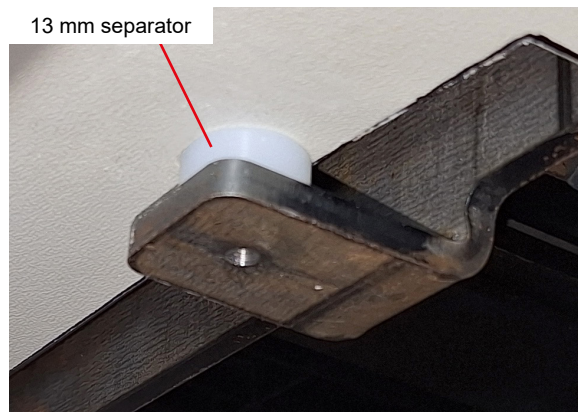
Place (4) 13 mm spacers between the tabs of the unit fixation support and the console. Tighten the self-locking nuts securing the brackets until the console is fully centred and flush with the roof.

Check that the EPDM external seal of the unit has been compressed between 3 and 6 mm

Important: To prevent possible water leaks inside the vehicle, the tightening of the EPDM seal with the unit base must be ensured.



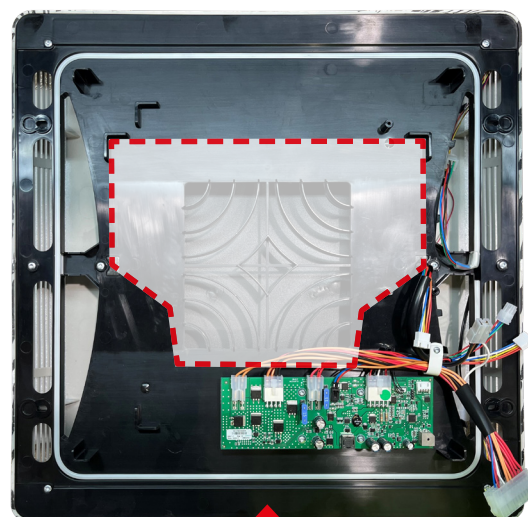
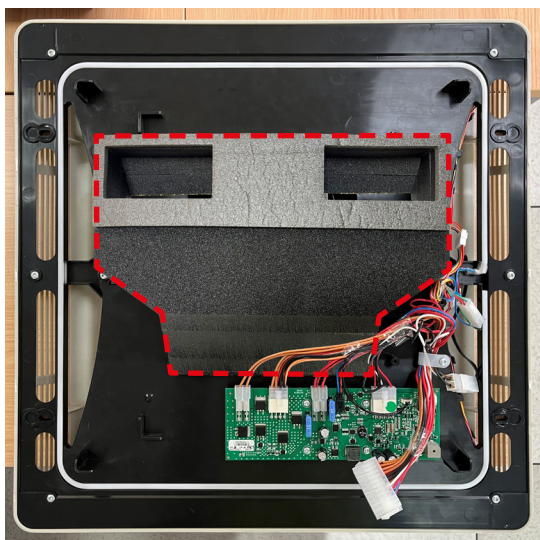
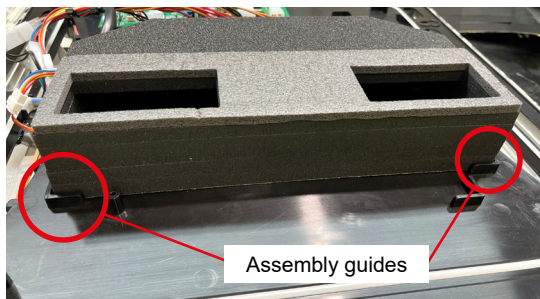
13 mm separator



13

Attach the duct system to the interior console of the unit in the indicated area.

Important: Ensure that the duct system is properly adjusted to the assembly guides.



14

Depending on the thickness of the vehicle's roof, add a supplementary seal to the duct system by centring it over the same, aligning the air outlet openings.

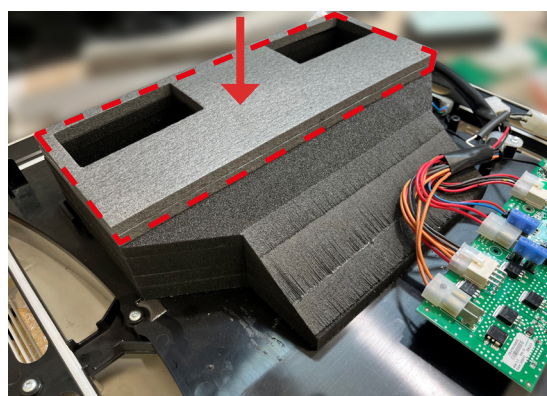
Thickness:

30 mm: Duct system + (3) supplementary seal.

40 mm: Duct system + (4) supplementary seal.

50 mm: Duct system + (5) supplementary seal.

60 mm: Duct system + (6) supplementary seal.



15

Continue the installation of the interior console by following the steps outlined in points 11, 12, 13 and 14 of the unit's specific instructions, document 1003855547, pages 34 and 35.

Caution: In point 13 of the equipment instructions, secure the interior console with the (4) M5 x 50 screws provided in the kit.

To complete the wiring of the power and signal cables from the battery-powered unit, follow the steps provided on pages 38 and 39 of the unit's specific instructions, document 1003855547.



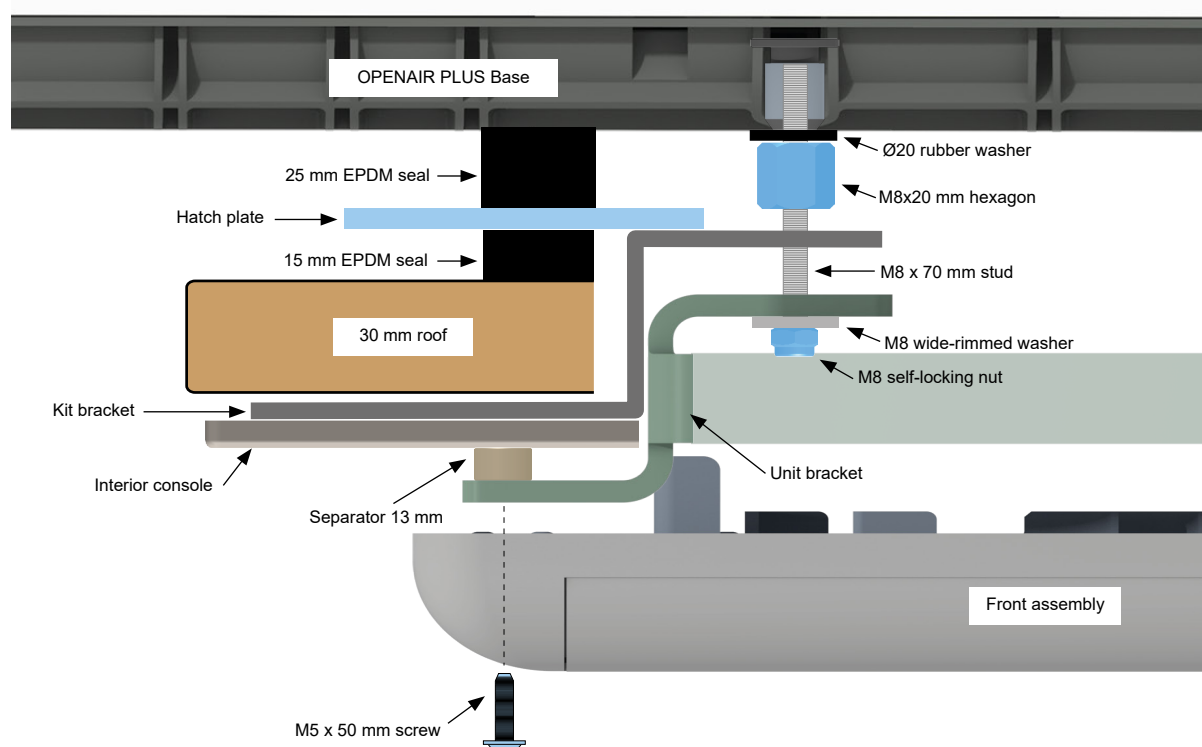
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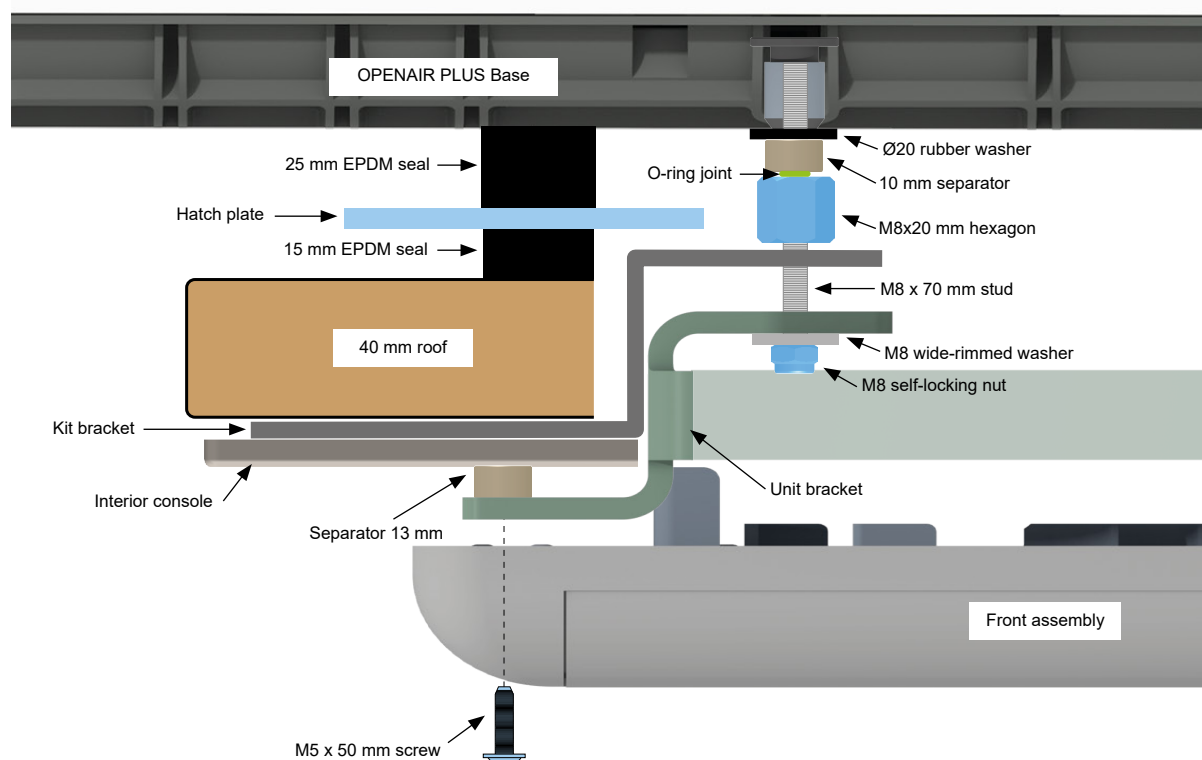
Caution: The images shown in the installation instructions for the **OPENAIR PLUS** equipment may not accurately represent your vehicle type, but this will in no way affect the installation process.

ASSEMBLY DIAGRAMS

30 mm roof thickness

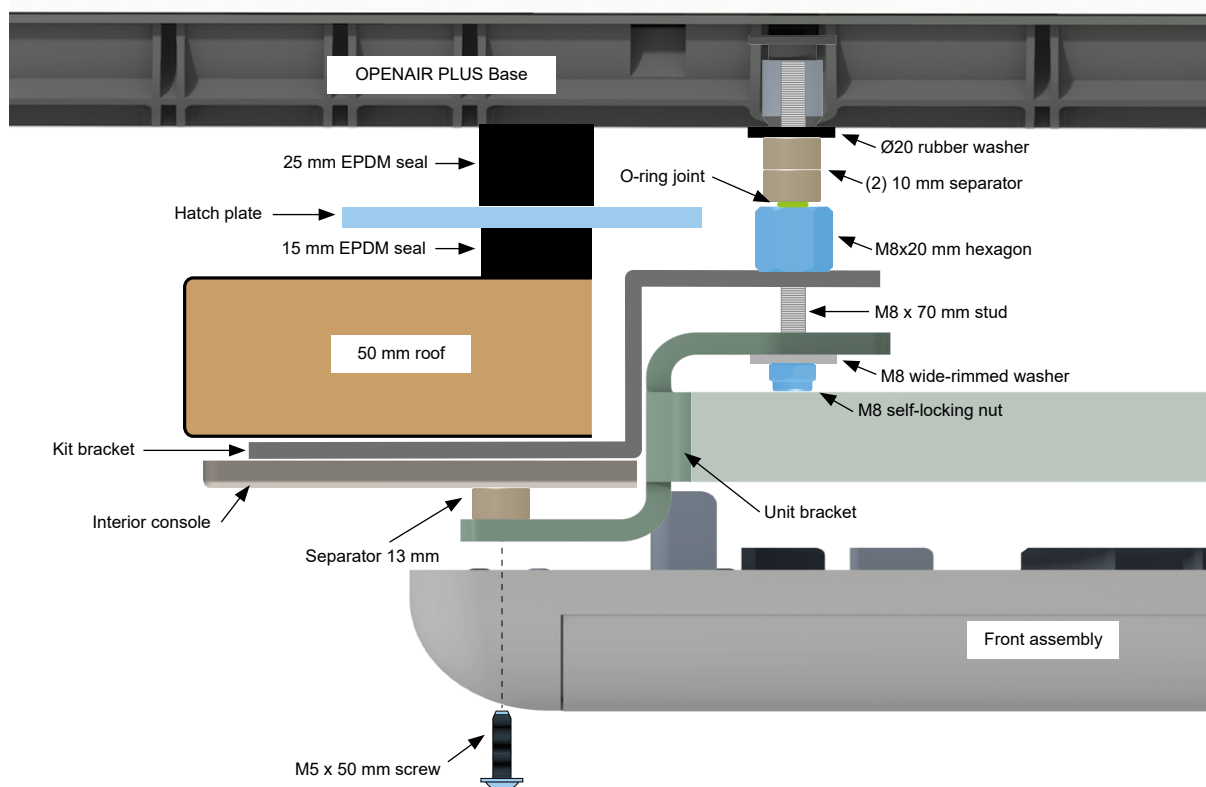


40 mm roof thickness

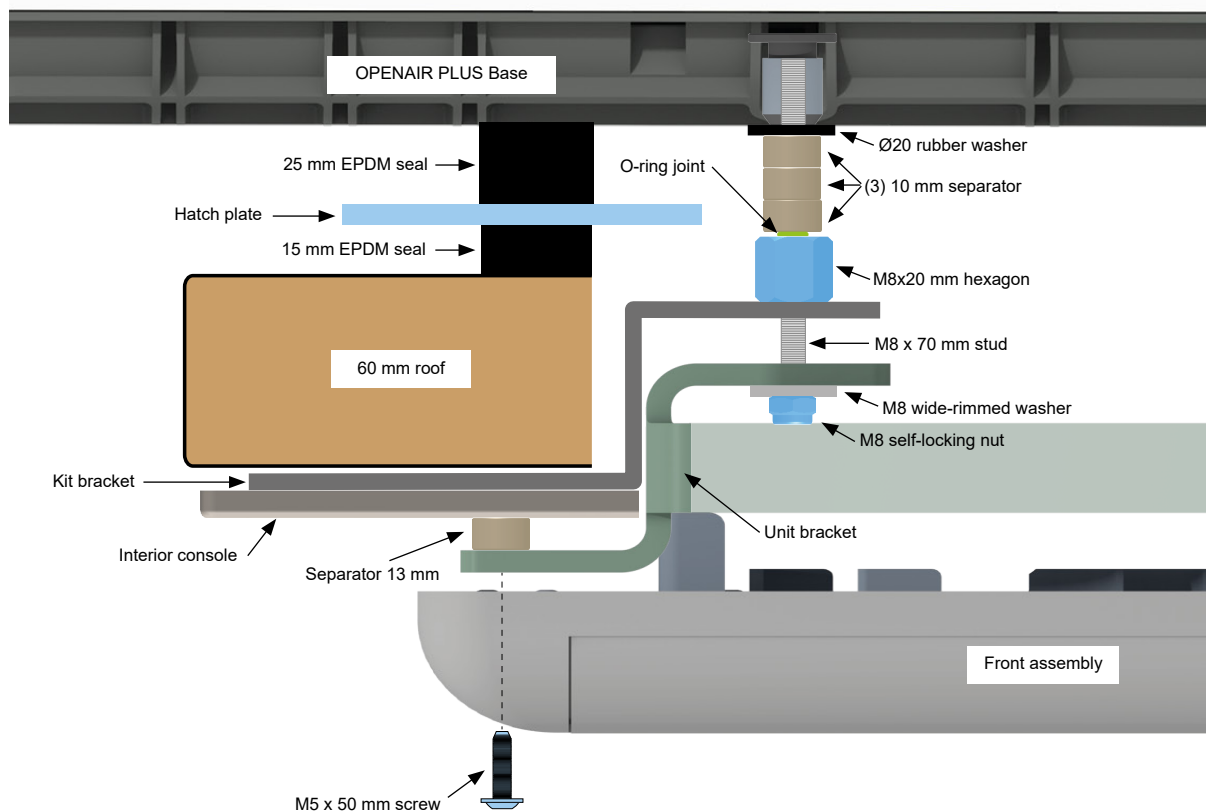


ASSEMBLY DIAGRAMS

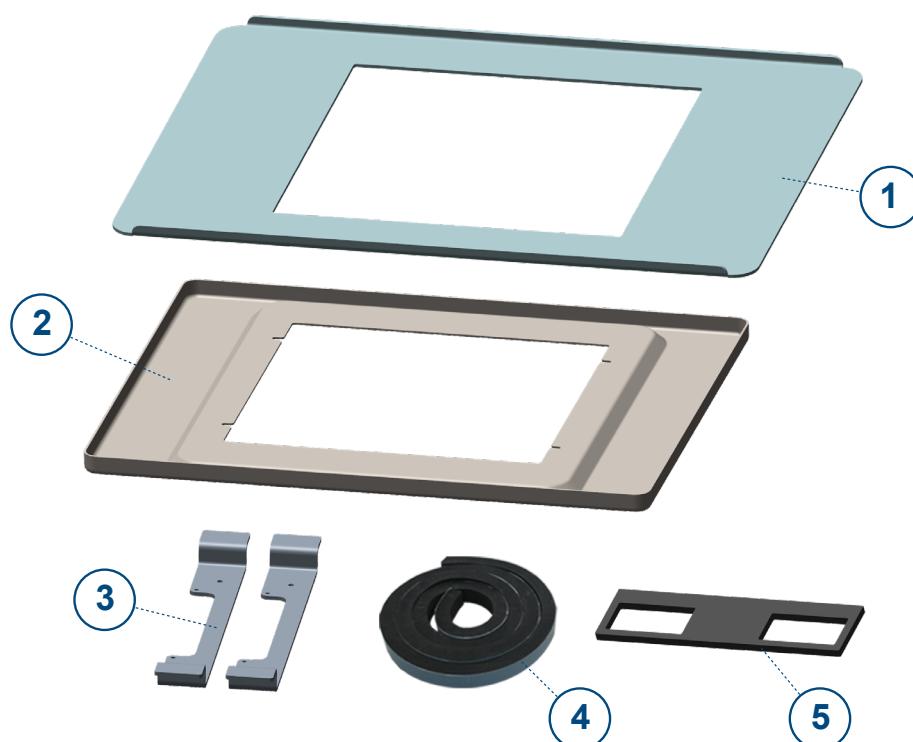
50 mm roof thickness



60 mm roof thickness



List of spare parts



Id.	Qty.	Code nº	Spare parts
1	1	1003390530	Coupling plate
2	1	1003780475	Interior console 786 x 600 mm
3	1	1003812227	Assembly bracket
4	1	1003910726	25x15 EPDM seal
5	1	1003855336	Duct system supplementary seal

NOTES

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.