



Installation manual

Low sound enclosure



EKLN140A1

Installation manual
Low sound enclosure

English

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1 About the documentation

1.1 About this document

Target audience

Authorised installers

Documentation set

This document is part of a documentation set. The complete set consists of:

Option installation manual:

- Installation instructions
- Format: Paper (in the box of the option)

Latest revisions of the supplied documentation may be available on the regional Daikin website or via your dealer.

The original documentation is written in English. All other languages are translations.

Technical engineering data

- A **subset** of the latest technical data is available on the regional Daikin website (publicly accessible).
- The **full set** of latest technical data is available on the Daikin Business Portal (authentication required).

2 About the box



NOTICE

Before installation, check the packaging and parts for damage. Make sure that the shipment is complete.

2.1 Parts







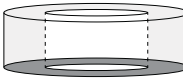
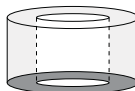


The box contains the following parts:





- Base frame profile, front (1×)
- Base frame profile, rear (1×)
- Base frame profile, left (1×)
- Base frame profile, right (1×)
- Support beam, front (1×)
- Support beam, rear (1×)
- Support partition, upper (1×)
- Support partition, lower (1×)
- Support frame sealing pad (1×)
- Vertical support, left (2×)
- Vertical support, right (2×)
- Lower slat (2×)
- Intermediate slat (8×)
- Upper slat (2×)
- Top panel (1×)
- Side panel, left (1×)
- Side panel, right (1×)
- Sealing strips

2.2 Accessories

The box contains the following accessories:

Accessories ^(a)	Illustration	Description
A		Torx screw M5×20
B		Washer M5 nylon DIN 125-1A
C		Sealing tape 20 mm
D		Nylon plug 8×40
E		Lag screw 6×50

Accessories ^(a)	Illustration	Description
F		Sheet metal washer M6x20
G		Round spacer cap
H		Spring washer M8
I		Nut M8
J		Sheet metal washer M8x30
K		Rounded finishing profile, small
L		U-shaped finishing profile
M		Guide pin Ø8x25 M5
N		Spacer bush 15x2.5
O		Spacer bush 12x7
P		D-rubber sponge, self-adhesive
Q		Rounded finishing profile, big (1 m)
R		Key

Accessories ^(a)	Illustration	Description
S		Base frame corner bracket
T		Base frame sealing pad
U		Base frame sealing pad
V		Vibration damper

^(a) This manual refers to each accessory with a specific letter from A to V.

3 About the unit and options

3.1 Possible combinations

See the data book of the outdoor unit to check if the low sound enclosure is compatible with the outdoor unit.

3.2 Possible options

Drain pan and heater tape

To evacuate drain water, use:

- Drain pan (EKLN140-DP)

To keep the drain holes free in cold climates, also use:

- Heater tape (EKLN140-DPHT)

4 Unit installation



WARNING

Installation shall be done by an installer, the choice of materials and installation shall comply with the applicable legislation. In Europe, EN378 is the applicable standard.



WARNING

Installation MUST be carried out by an authorised installer. 2 people are required to install the low sound enclosure.



WARNING

The parts may have sharp edges. Wear cut-resistant work gloves during installation.

4 Unit installation

4.1 Preparing the installation site



WARNING

Make sure installation, servicing, maintenance and repair comply with instructions from Daikin and with applicable legislation and are executed ONLY by authorised persons.

Requirements relating to the installation

Ensure a horizontal, level and stable base (a paved base or a wooden frame). There MUST be a minimum clearance of 1 meter on all sides of the frame.

See the installer reference guide of the outdoor unit for additional installation site requirements of the outdoor unit in cold climates.

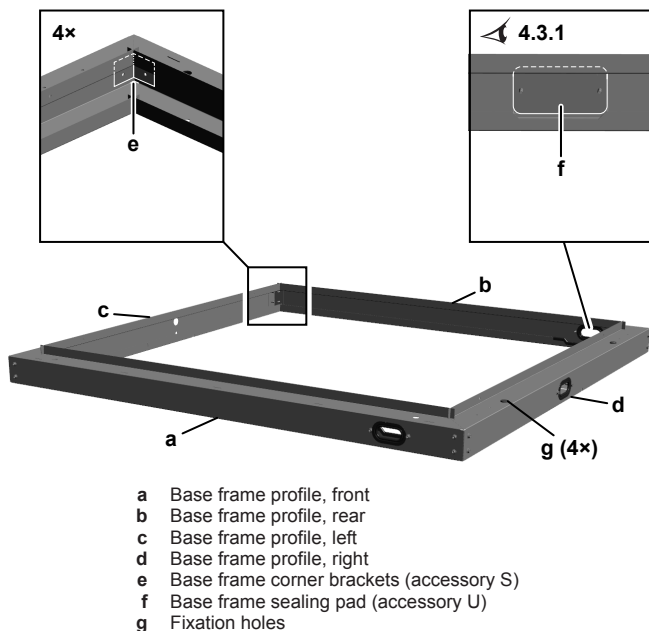
Tools

The low sound enclosure can be installed using following tools:

- Cut-resistant work gloves
- Wire cutters
- Utility knife
- Measuring tape
- Try square
- Neutral cleaning agent
- Screwdriver, Torx TX25
- (Pipe) wrench size 10
- Key size 13
- Drill with 8 mm masonry bit (if the foundation is made of concrete)

4.2 About fitting the enclosure

4.2.1 About installing the base frame



- a Base frame profile, front
- b Base frame profile, rear
- c Base frame profile, left
- d Base frame profile, right
- e Base frame corner brackets (accessory S)
- f Base frame sealing pad (accessory U)
- g Fixation holes

To install the base frame

The base frame comprises 4 straight pieces (a~d) and 4 corners (e). The 4 straight pieces have recesses at the ends to allow them to slot together.

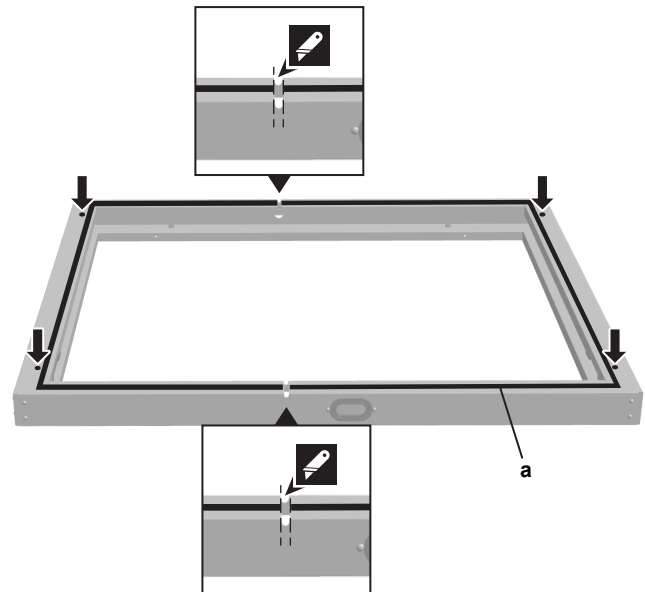
- 1 Tilt the corner brackets (accessory S) into the corners.
- 2 Fix the corners with M5 Torx screws (accessory A) and washers (accessory B).



INFORMATION

Tighten them hand-tight (tightening torque <5N·m).

- 3 Affix 1 strip of sealing tape (accessory C) to the bottom side of the base frame in the centre of the profile.



a Sealing tape (accessory C)

- 4 Interrupt the rubber at the drain holes (2×) and fixation holes (4×).
- 5 Align the base frame in a 90° angle – a large try square would be most appropriate for this.

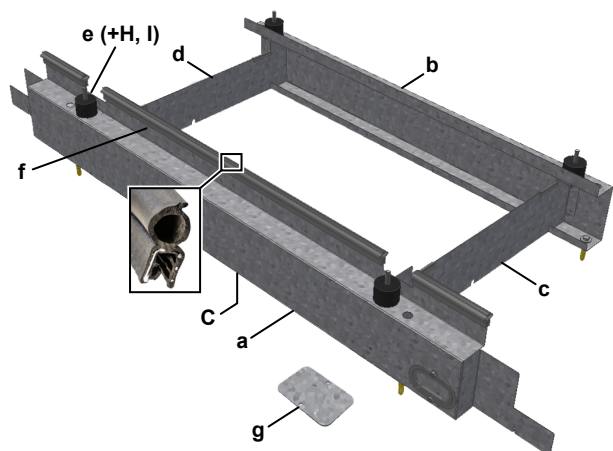


INFORMATION

The corners MUST be exactly 90°.

- 6 Fix the base frame to the floor with the lag screws (accessory E) and the sheet metal washers (accessory F).
- 7 (Optional) If working with a stony base, use the nylon plugs (accessory D).
- 8 Fit 4 round plastic spacer caps (accessory G) to the base frame and press them into the fixation holes at the top, over which the panels will be fitted later.

4.2.2 About installing the support frame



- a Support beam, front
- b Support beam, rear
- c Support partition, upper
- d Support partition, lower
- e Vibration dampers (accessory V)
- f Rounded rubber (accessory Q)
- g Base frame sealing pad (accessory T)

To install the support frame

- 1 Position the front support beam (a) and rear support beam (b) parallel to one another with the open sections facing one another.
- 2 Slide the upper support partition (c) and lower support partition (d) between the 2 support beams.
- 3 Check that all holes in the support bars and partitions are aligned with one another.
- 4 Connect the vibration dampers (accessory V) to the support beams and partitions using the M8 spring washers (accessory H) and M8 nuts (accessory I).
- 5 Connect the support beams and partitions to one another using the M5 Torx screws (accessory A) and washers (accessory B).



INFORMATION

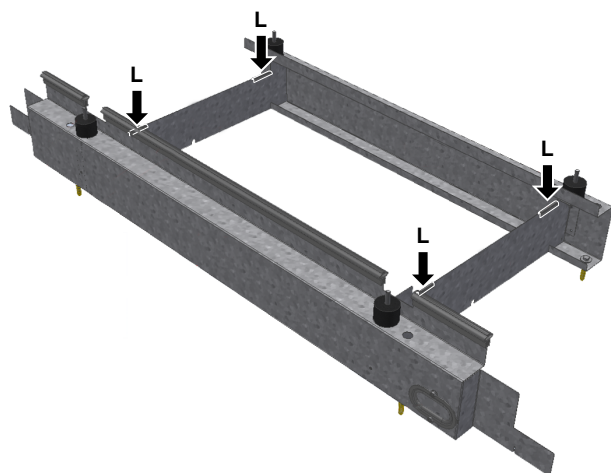
Tighten them hand-tight (tightening torque <5N·m).

- 6 Affix 1 strip of sealing tape (accessory C) to both support beams in the centre of the front support beam profile (a) and rear support beam profile (b).

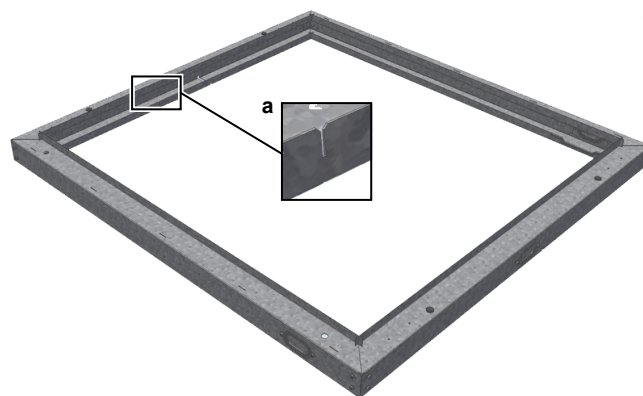


a Sealing tape (accessory C)

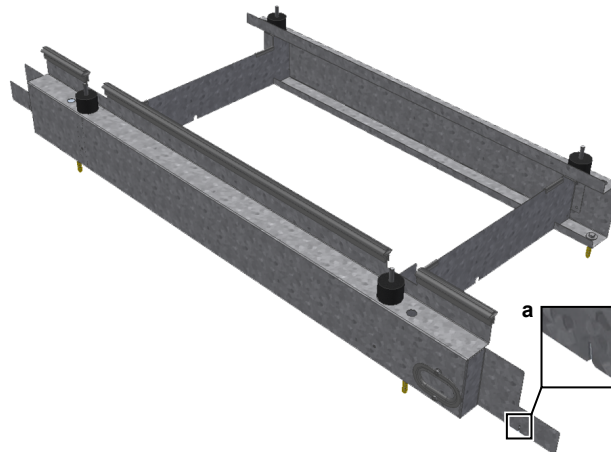
- 7 (Optional) If you use the support frame as the base of the drain pan: cut the U-shaped finishing rubber (accessory L) into 4 equal parts of 3 cm long and place them on the top ends of both intermediate support partitions on the upper part.



- 8 Fit the front of the foremost support beam with rounded rubber (accessory Q).
- 9 Cut the correct lengths and ensure that the rubber is interrupted at the notches.
- 10 Click the support frame into the base frame using the grooves.



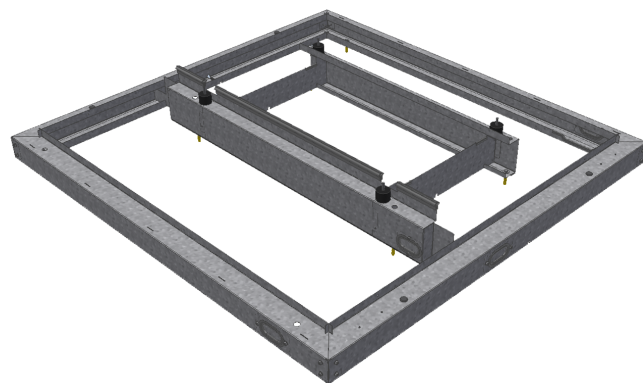
a Location of groove in base frame



a Location of groove in support frame

- 11 Fix the foremost support beam to the floor using the lag screws (accessory E), sheet metal washers (accessory F), and plugs (accessory D) if working with a stony base.

Result:



4.2.3 About installing the outdoor unit



INFORMATION

For details about installation of the outdoor unit, see the manual of the outdoor unit.



CAUTION

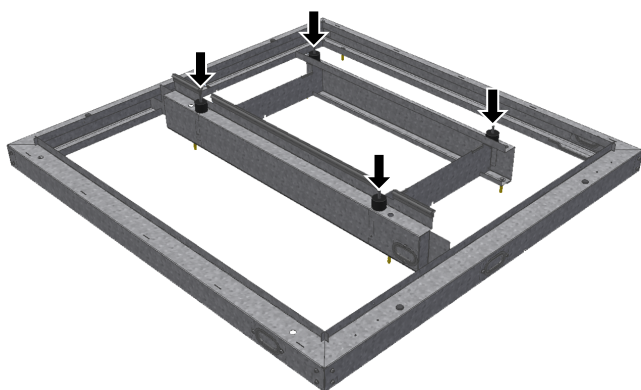
When installing the low sound enclosure on an existing outdoor unit, the wiring and refrigerant piping **MUST** go through 1 of the 3 premounted openings in the base frame of the low sound enclosure.

ALWAYS follow the instructions in the installation manual and service manual of the outdoor unit for the related procedures to uninstall and reinstall the outdoor unit.

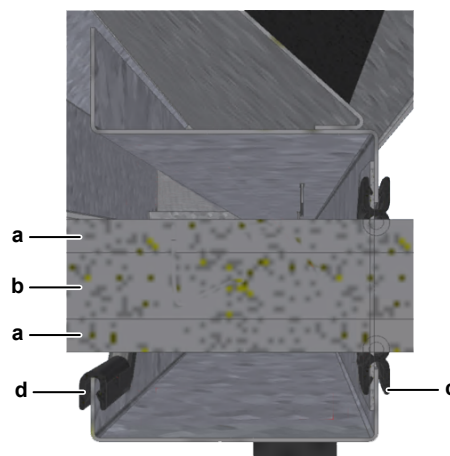
4 Unit installation

To install the outdoor unit

- 1 If necessary, fix the rearmost support beam using lag screws (accessory E) and washers (accessory F).



- 2 (Optional) If working with a stony base, use the plugs (accessory D).
- 3 Place the outdoor unit on the vibration dampers and connect them consecutively using the sheet metal washer (accessory J), spring washer (accessory H), and nut (accessory I).



- a Insulation
- b Refrigerant piping
- c Small rounded finishing profile (accessory K)
- d U-shaped finishing profile (accessory L)

4.3 Wiring

4.3.1 To prepare the wiring

- 1 Choose the desired opening in the base frame for the pipes and electrical wiring.
- 2 Seal the other openings using the provided base frame sealing pads (accessory T and U).



INFORMATION

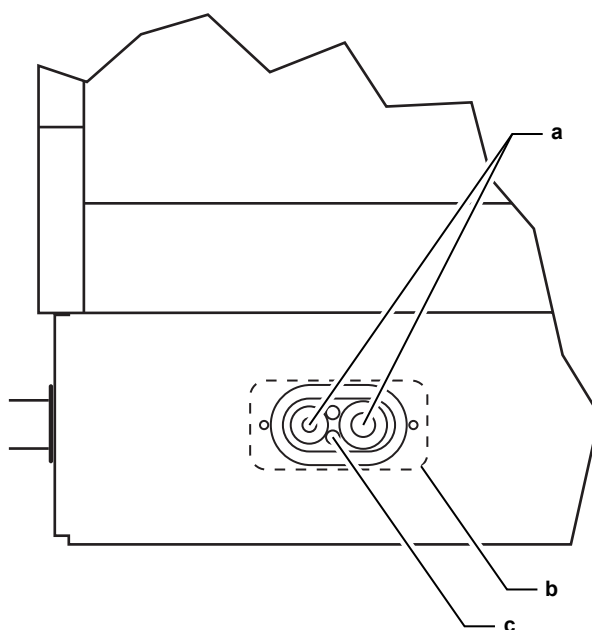
If the cables enter from the bottom, all openings can be sealed.

- 3 Fix with M5 Torx screws (accessory A) and washers (accessory B).



INFORMATION

Tighten them hand-tight (tightening torque <5N·m).



- a Refrigerant piping
- b Cover plate positioned from inside. Placed in 3 positions (see top view). Pipes are sealed with rubber.
- c Electrical cables

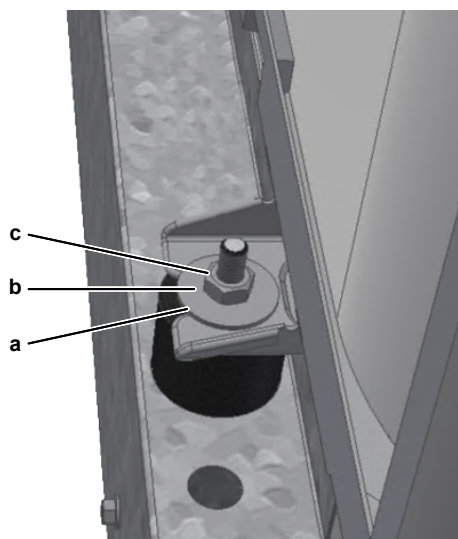
4.3.2 To position the wiring

- 1 Insert the small rounded finishing rubber (accessory K) into the opening through which the cables are passed to ensure the perfect seal between the opening and pipes and cables.
- 2 Cut the rounded finishing rubber (accessory K) to the correct size with a utility knife and place it on the inside of the opening.
- 3 Place a strip of U-shaped finishing rubber (accessory L) on the inside of the base frame to prevent damage to the pipes and cables.
- 4 Pull the pipes and electrical cables through.
- 5 Guide the pipes and electrical cables through the floor (base) entry point of the outdoor unit to prevent kinks in the pipes.

4.4 About fixing the outdoor unit

4.4.1 To fix the outdoor unit

- 1 Fix the outdoor unit with the M8 sheet metal washer (accessory J), M8 spring washer (accessory H), and M8 nut (accessory I).



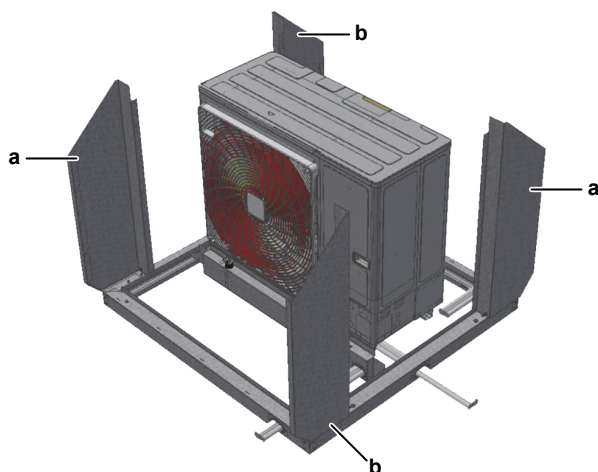
- a Sheet metal washer M8 (accessory J)
- b Spring washer M8 (accessory H)
- c Nut M8 (accessory I)

- 2 Connect the pipes and cables from the outdoor unit according to the installation manual for the outdoor unit.

4.5 About installing the slats frame

4.5.1 To install the slats frame

- 1 Position the vertical supports left (a) and right (b) on the base frame.



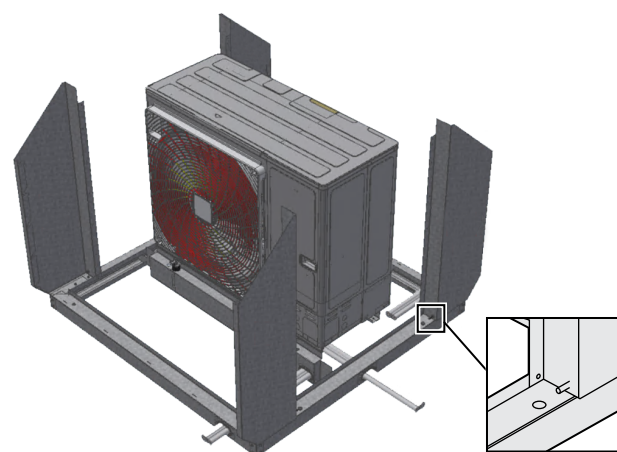
- 2 Fix with M5 Torx screws (accessory A) and washers (accessory B).



INFORMATION

Tighten them hand-tight (tightening torque <5N·m).

- 3 Fit the plastic guide pins (accessory M) to the bottom of the vertical support.



- 4 Fix with M5 Torx screws (accessory A) and washers (accessory B).

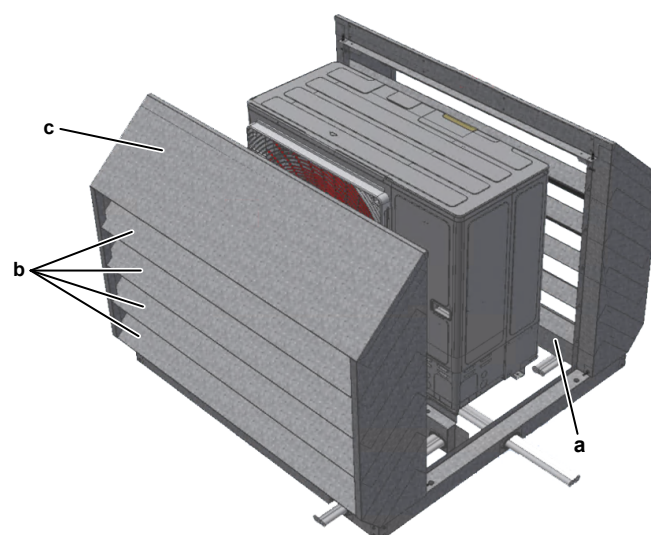


INFORMATION

Tighten them hand-tight (tightening torque <5N·m).

- 5 Slide the 15×2.5 plastic spacer bush (accessory N) over the lower guide pins.

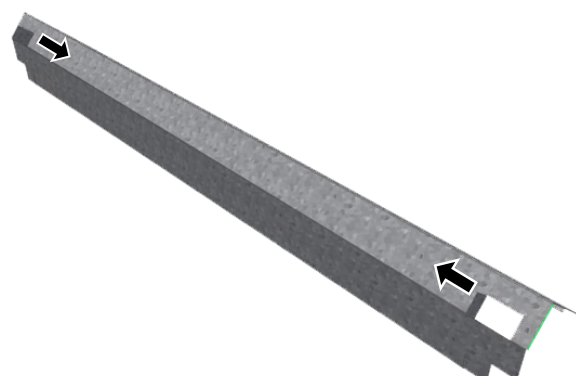
4.6 About installing the slats



- a Lower slats (2×)
- b Intermediate slats (8×)
- c Upper slats (2×)

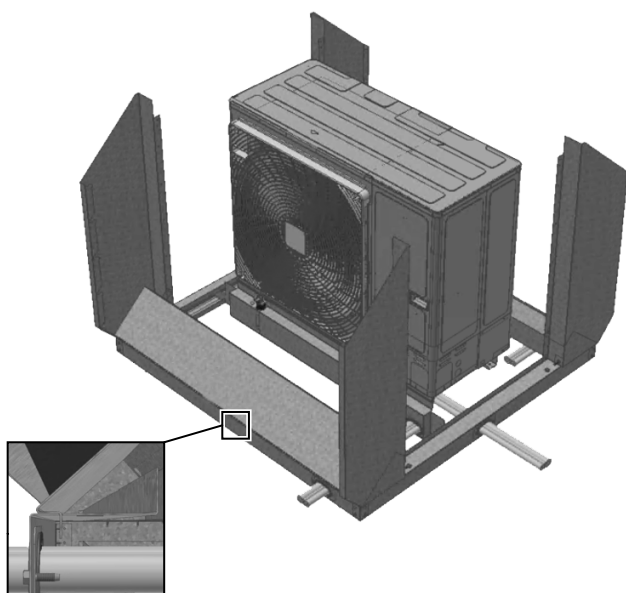
4.6.1 To install the lower slats

- 1 Tilt the mounting lips at the end of the slat so that they form a 90° angle with the slat.



4 Unit installation

- 2 Install the 2 lower slats.



4.6.2 To install the intermediate slats

- 1 Tilt the intermediate slats into the vertical supports.
- 2 Position 4 intermediate slats on each side.
- 3 Bend the mounting lips 90° in respect of the slats.



INFORMATION

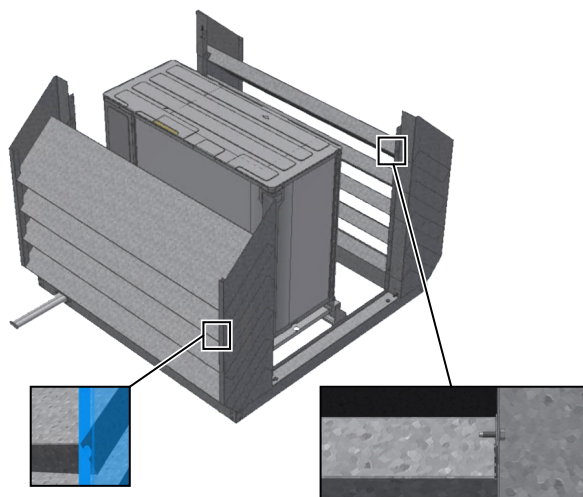
The lips **MUST** be connected to the vertical supports.

- 4 Hold the lip and vertical support firmly by hand to make sure that the holes align with one another.
- 5 Fix the lip with M5 Torx screws (accessory A) and washers (accessory B) inserted from outside.



INFORMATION

Tighten them hand-tight (tightening torque <5N·m).



4.6.3 To install the upper slats

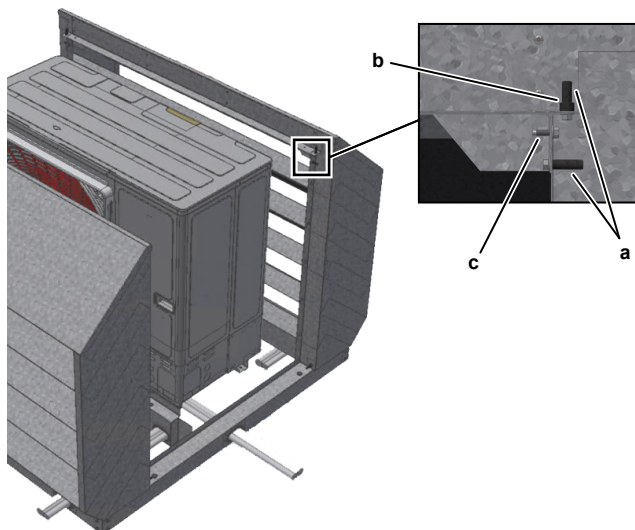
- 1 Tilt the upper slats into the vertical supports.
- 2 Place the slat at the top over the vertical supports.
- 3 Slide the slat into the notches below in the vertical supports.

- 4 Fix the 8 guide pins (accessory M) with the M5 Torx screws (accessory A). A washer is **NOT** needed in this case.
- 5 Fit a 12×7 spacer bush (accessory O) over the upper guide pins (4×).
- 6 Fit the 4 additional M5 Torx screws (accessory A) and washers (accessory B).



INFORMATION

Tighten them hand-tight (tightening torque <5N·m).



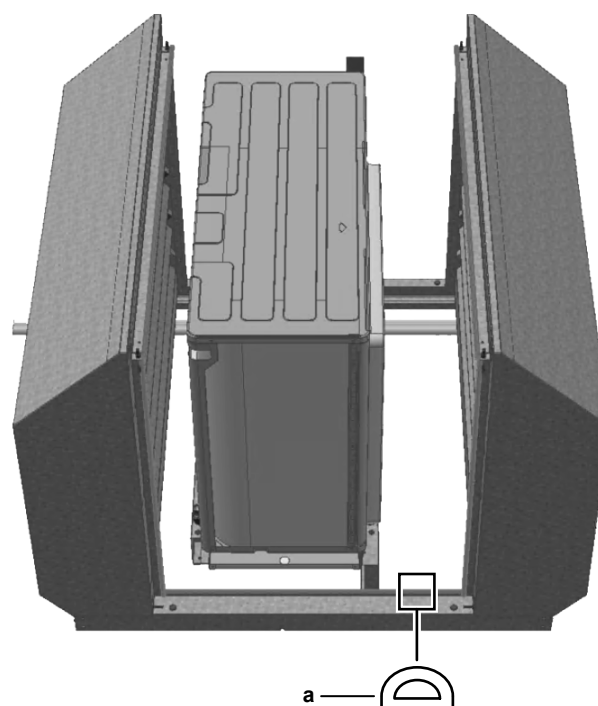
- a Guide pins (accessory M) with M5 Torx screw (accessory A)
- b Spacer bush (accessory O)
- c Additional M5 Torx screw (accessory A)

- 7 Fit the self-adhesive D-rubber (accessory P) to all edges of the vertical support, base frame, and upper slats.
- 8 Make sure the rubber is adhered flush with the outside of the sheet metal plate edges.



INFORMATION

Dry and degrease the sheet metal plate with a neutral cleaning agent to ensure that the D-rubber adheres properly. Cut the rubber to length with scissors.



a Self-adhesive D-rubber (accessory P)

4.7 About installing the panels and sealing strips

4.7.1 To install the top panel

- 1 Position the top panel precisely over the 4 guide pins (accessory M).
- 2 Fix the top panel with 4× M5 Torx screws (accessory A) ONLY.



INFORMATION

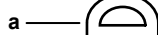
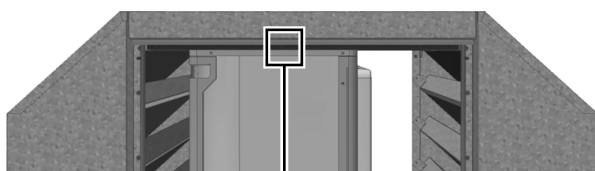
Tighten them hand-tight (tightening torque <5N·m).

- 3 Fit the self-adhesive D-rubber (accessory P) to both edges of the top panel.
- 4 Make sure the rubber is adhered flush with the outside of the sheet metal plate edges.



INFORMATION

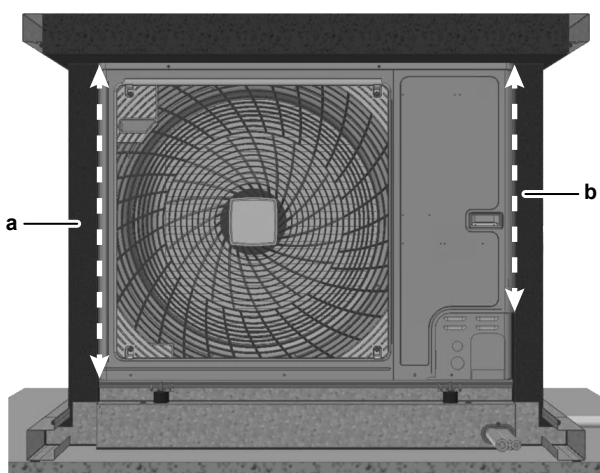
Dry and degrease the sheet metal plate with a neutral cleaning agent to ensure that the D-rubber adheres properly. Cut the rubber to length with scissors.



a Self-adhesive D-rubber (accessory P)

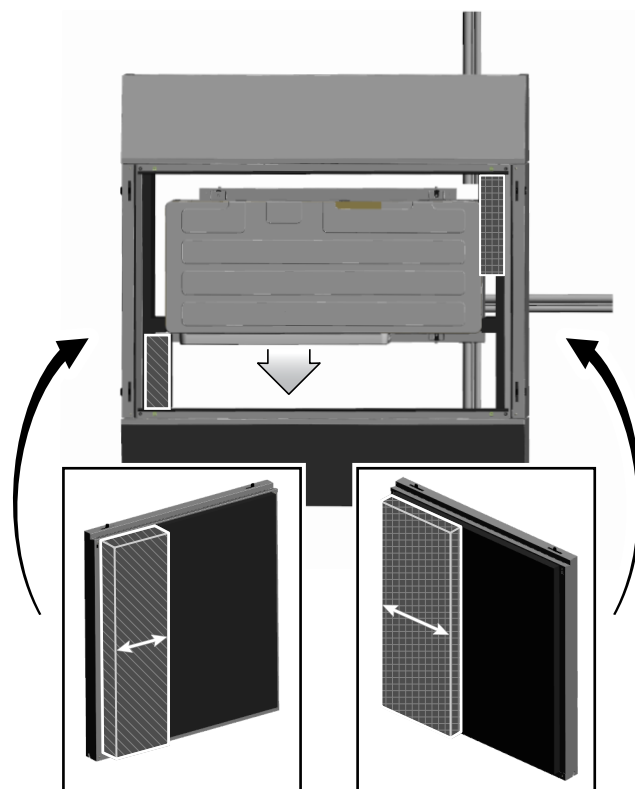
4.7.2 To install the side panels and sealing strips

- 1 Affix the self-adhesive sealing strips to both sides of the outdoor unit.



- a Sealing strip, left. Affix this over the full height of the outdoor unit (see dotted line).
- b Sealing strip, right. Affix this over the length of the service door ONLY (see dotted line).

- 2 Push the remainder of the sealing strip between the base frame profile.
- 3 Lift the left and right side panels into the recess and let them slide over the lower pins (accessory M).



- 4 Press the side panels tight and lock them with the key provided (accessory R).

Result: The low sound enclosure has been fitted.

5 Configuration

After installing the outdoor unit ALWAYS deactivate the high external static pressure function. This in order to avoid increased fan velocity and associated increase in outdoor unit sound emission.

Model	Setting	Set to value...
RZAG71	2-79	2
RZAG100		
RZAG125		
RZAG140		
RZA200		
RZA250	2-18	
RXYSA4		
RXYSA5		
RXYSA6		



INFORMATION

For more information on the field settings, see the installer reference guide or the service manual of the outdoor unit.

6 Maintenance

- The low sound enclosure is free of maintenance under normal conditions.
- Clean the outside with water and a neutral cleaning agent at least twice a year to keep the housing in optimal condition.
- To avoid the short circuit of the airflow, ALWAYS keep the slats openings free from debris and remove dirt such as leaves and snow.

6 Maintenance



INFORMATION

For information on maintaining the outdoor unit, see the service manual for the respective outdoor unit.



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