Mounting

AMX 4

AIRMASTER

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02	*2024-08-30*	*Sections 4.2 and 5 updated.*
02.1	*2025-12-18*	*Table 6 updated.*
02.2	*2026-01-21*	*New design on the back page*
0.3	*2026-03-09*	*Section 5 has been updated with additional notification regarding the unit's tilting. Figure 16 updated for clarity. The mounting procedure has been revised due to a minor change in production. General updates to text.* *Appendix A has been removed and is now part of the delivery as a separate document.*



NOTICE

Read the manual thoroughly before mounting the AMX 4 unit.

Keep it for later use. Manuals must be given to the unit's owner for safekeeping.

Fill out this form for future reference:

Installation information	
Type	*AMX 4*
Delivery date	
Serial number	
Mounting location	

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2 Introduction

This manual provides instructions for mounting the AMX 4 unit correctly and safely.

Mounting and installing an AMX 4 is divided into two parts:

1. Mounting the unit on the wall/ceiling (this manual).
2. Electrical installation. Please refer to the Installation manual.

Both manuals are part of the delivery. The manuals can also be downloaded from our website, see section 4.3.

2.1 Target group

This manual is addressed to qualified personnel.

2.2 Warning symbols

This manual may contain warning symbols. The colors and symbols adhere to the ISO 3864 and ISO 7010 standards. The visual depiction may vary depending on the type of media.

The symbols are described below:

	**DANGER** Indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.

	**WARNING** Flammable material.

	**WARNING** Indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

	**WARNING** Indicates a risk of hand crushing.

	**CAUTION** Indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

Continued on the next page

	**CAUTION**
	Wear safety footwear as personal protection equipment.

	**NOTICE**
	Failure to comply with the instructions can damage the device and/or its environment.

	Information, tips, and recommendations.

2.3 Liability

The manufacturer cannot be held liable for damages arising from use in violation of this manual's instructions.

The manufacturer reserves the right to make changes without notice. All stated values are nominal and may be affected by local conditions.

The warranty is voided if this manual is not followed.

3 Safety instructions

Breaching the instructions marked with a warning symbol carries a risk of personal injury or material damage.



WARNING

R290 (Propane) in the appliance - Highly Flammable Substance.

Extremely flammable gas. Forms explosive mixtures with air. Only slightly soluble in water.
Gas is heavier than air.



WARNING

- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The unit shall be stored in a room without continuously operating ignition sources.
  (for example: open flames, an operating gas appliance, or an operating electric heater).
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odor.
- The unit shall be installed, operated, and stored in a room with a floor area larger than 12,8 m^2.



WARNING

- The unit must not be installed in explosion-protected rooms.
- The unit must not be installed in rooms with flammable or corrosive gases in the air.
- The unit must not be installed in rooms with abrasive particles in the air.
- The unit must not be installed in wet rooms.



CAUTION

Wear safety shoes when mounting the unit.



NOTICE

When installing the air handling unit in a room with a fire or stove drawing air from the room, all applicable provisions must be observed.

3.1 Responsibility

	CAUTION
	• The installation technician is responsible for installing the unit following local rules and standards. • The installation technician is responsible for ensuring that the unit is properly secured in a horizontal position. • The installation technician is responsible for ensuring that any existing functions in the wall/ceiling (e.g. vapor barrier) are restored and fully functional once the unit has been installed.

3.1.1 Personnel requirements

Mounting the AMX 4 unit must be done by qualified personnel. Laypersons should not attempt to mount the unit.

4 Product identification

4.1 Product name and type

Product name	AMX 4
Unit item number	9500004001
Type	Decentral air handling unit. Stand-alone unit.

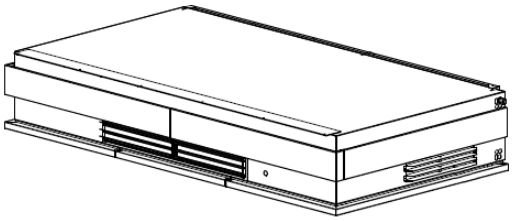


Figure 1: AMX 4 unit

Table 1: Product name and type

4.2 Specifications

Weight: complete unit excl. panels	232 kg
Weight: casing incl. middle steel plate	190 kg
Weight: panels	6 kg
Weight: steel plates (2 pcs.)	18 kg
Weight: service cover (3 pcs.)	24 kg
Dimensions (W x H x D)	2055 x 358 x 1100 mm
Duct connection	2 x Ø200 mm

Table 2: AMX 4 specifications

Please refer to the AMX 4 datasheet for further information. The datasheet is available on our website.

4.3 Manufacturer

Airmaster A/S
Industrivej 59
9600 Aars
Denmark

Phone: +45 98 62 48 22
E-mail: info@airmaster.dk
Website: www.airmaster.dk

5 Transportation and storage

The AMX 4 is packed on a pallet; each pallet can hold up to two units.

During transport, the pallet must be tied up so it will not move or shift. Make sure that it is not dropped or otherwise damaged during handling.

Gross weight (2 units and pallet)	Approx. 530 kg
Net weight (each unit)	232 kg
Pallet dimensions (l*w)	2150*1200 mm

Table 3: Weight and dimensions



WARNING

- The unit shall be stored in a room without continuously operating ignition sources.
  (for example: open flames, an operating gas appliance, or an operating electric heater).
- The unit shall be stored in a room with a floor area larger than 12,8 m^2.



NOTICE

The unit must be **transported and stored horizontally**.

See additional notice on the next page regarding tilting the unit, e.g., through a door.



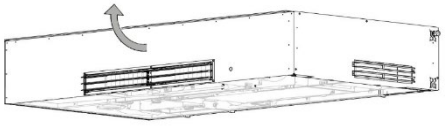
NOTICE

The unit must be stored in a dry area at a temperature between -10 and 30 °C.

NOTICE

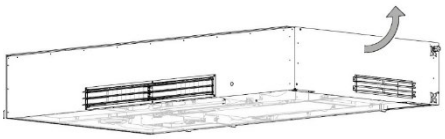
The unit can be tilted briefly, e.g., when passing through a door. Tilting the unit can be done in two ways:

- Front side upward



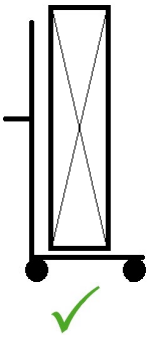
Ensure you support the back of the unit, e.g., with blocks of wood or similar, to avoid damaging the fittings on the back.

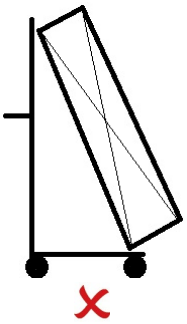
- Right side upward



Do not tilt the unit more than 90 degrees (from the horizontal level) as this may cause oil from the compressor to enter the pipes.
Be careful, do not use sudden movement when tilting the unit.

When tilting the unit, always place it on either the left side or the back, never on the edges.





NOTICE

Leave at least 3 hours after tilting the unit before turning it on.

This is to ensure that any oil that may have entered the pipes has settled back into the compressor.

6 Important information before you mount the unit

Read the instructions in this chapter carefully *before* you begin.



WARNING

- The supporting base, i.e., the wall and the ceiling, must support the unit's weight.
- The unit must be mounted using all attachment points. Do not skip or leave out any of them.
- Use screws intended for the supporting base material. Make sure the screws can support the unit's weight and fit the unit's attachment points.

If the unit falls down, there is a high risk of serious personal injury and damage to the unit.



WARNING

- The unit shall be installed in a room with a floor area larger than 12,8 m^2.



NOTICE

Duct holes in the wall must have an outward-downward faced gradient of 1-2% to prevent heavy rain from entering the unit.



NOTICE

The wall where the unit is mounted must have an even surface. If the surface is too uneven, the frame may be out of true. This may lead to leaks and increased noise during unit operation.



NOTICE

Use appropriate lifting equipment. The unit is heavy; do not try to lift or move it by hand.



We recommend that duct holes be drilled 10-15 mm larger than indicated on the drawings.

This will allow for subsequent insulation, prevent direct contact with the wall, and allow for a vapor barrier, etc., to be restored.

6.1 Minimum distance to building parts

It is important to position the unit correctly. Below is a sketch of the key distances to consider before installation.

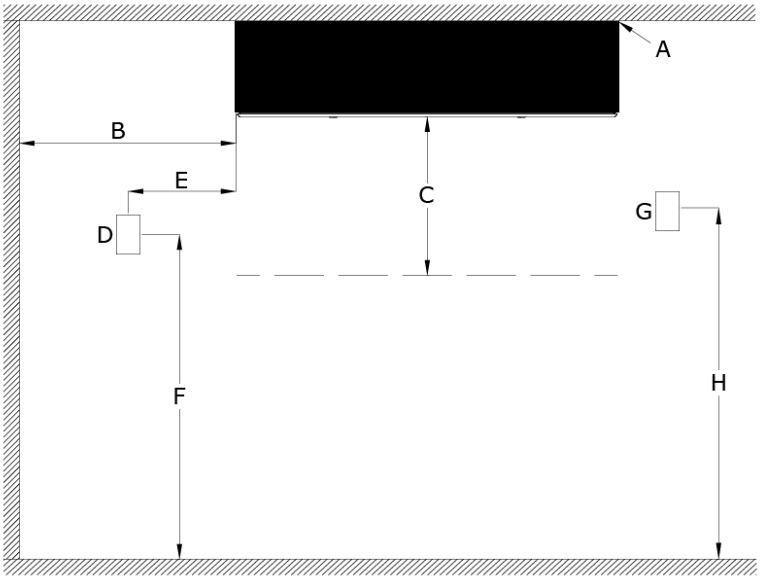


Figure 2: Minimum distance to building parts

A	Max. distance from ceiling = 6 mm
B	Min. distance from wall = 0.5 m
C	Min. free space for maintenance work = 0.95 m
D	External CO_2 sensor
E	Approx. 1 m
F	Approx. 2 m
G	External PIR/motion sensor
H	Approx. 2.25 m (1.8 m – 2.5 m)

Table 4: Minimum distances

Obstacles in the room affect airflow from the AMX 4 unit; hence, it is also necessary to consider the room layout when choosing the right position.

See examples of correct vs. incorrect installation in Figure 3.

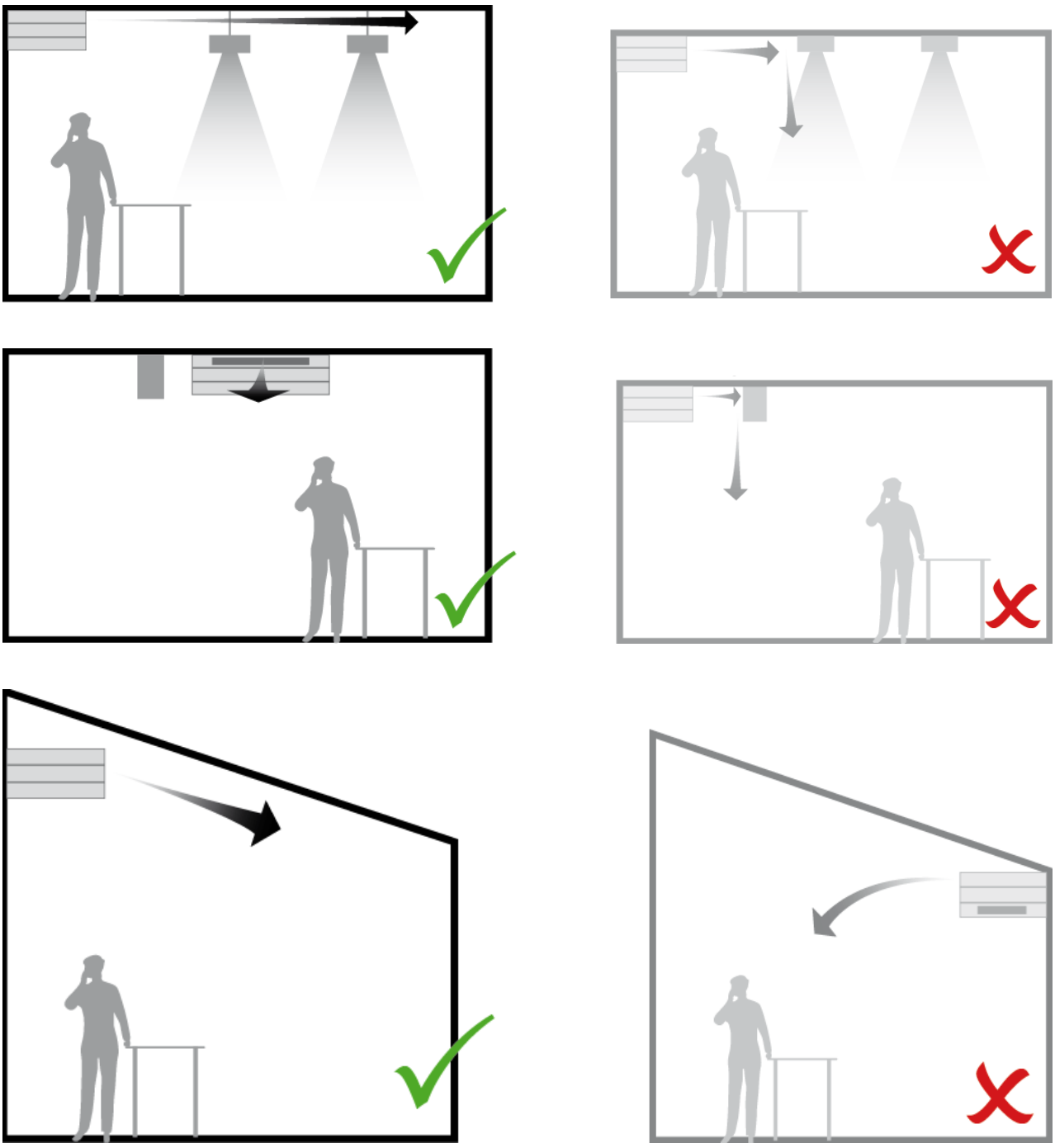


Figure 3: Correct installation vs. incorrect installation

6.2 Tools and accessories

Before you start mounting the AMX 4 unit, you need the following tools and accessories:

- Lifting equipment appropriate for the unit weight (min. 240 kg)
- A core drill (min. Ø200 mm, see the Information Box on page 13)
- Common hand tools
- Sealants and sealing tape
- Clean underlay to prevent scratches to the unit, e.g., strong cardboard, thick plastic, a blanket, or equivalent material.

Depending on the customer's order: duct pipes, grilles, as well as a vapor barrier may also be required.

It is not possible to do the installation correctly without this equipment.

6.3 Unpacking

The scope of delivery can be seen from the delivery note; however, a general list of parts is listed below:

- AMX 4 unit, fitted with wall/ceiling bracket
- Condensate drain hose and electrical cord
- Side covers and screws
- Steel plates
- Panels
- Service covers
- Bolts and service cover key
- Duct pipes, grilles, vapor barrier
- CO_2 sensor, PIR/motion sensor
- Documentation: Mounting manual, Installation manual, Operation & Maintenance manual, dimensional drawing.

When unpacking, use a protective underlay to prevent scratches on the service cover and the panels.

Make sure you have all the parts and check for any damage before starting the installation.

	**CAUTION**
	Do not start the installation if any parts are damaged or missing.

7 The mounting process

Below is an overview of the mounting process; each step is described in the subsections that follow.

The process describes the steps you need to take when mounting a fully visible unit. If the unit must be built into the ceiling, the sections on panel brackets and panels are omitted.

1. Disassemble the rear bracket
2. Mark drill holes for the brackets and ducts
3. Drill holes
4. Mount the bracket
5. Mount the unit
6. Mount duct pipes and grilles + sealing
7. Connect the drain
8. Remove the transportation safeguard
9. Mount the side covers
10. Mount the panel brackets
11. Mount the panels
12. Mount the steel plates
13. Mount the service covers

When the AMX 4 unit is shipped from the factory, the rear bracket is mounted on the unit; this needs to be disassembled.

Once this is done, you proceed to mark and drill holes for the brackets and ducts in the wall.

The next step is to mount the rear bracket, then lift and mount the unit onto the bracket. When the unit is mounted, proceed to mount the duct pipes and grilles, and the drain.

After this, the transportation safeguard must be removed from the compressor.

Mount the side covers and the panels, and finally, the steel plates and the service covers. This completes the mounting process.

7.1 Disassemble the rear bracket

1. Disassemble the rear bracket, see Figure 4 and Figure 5.

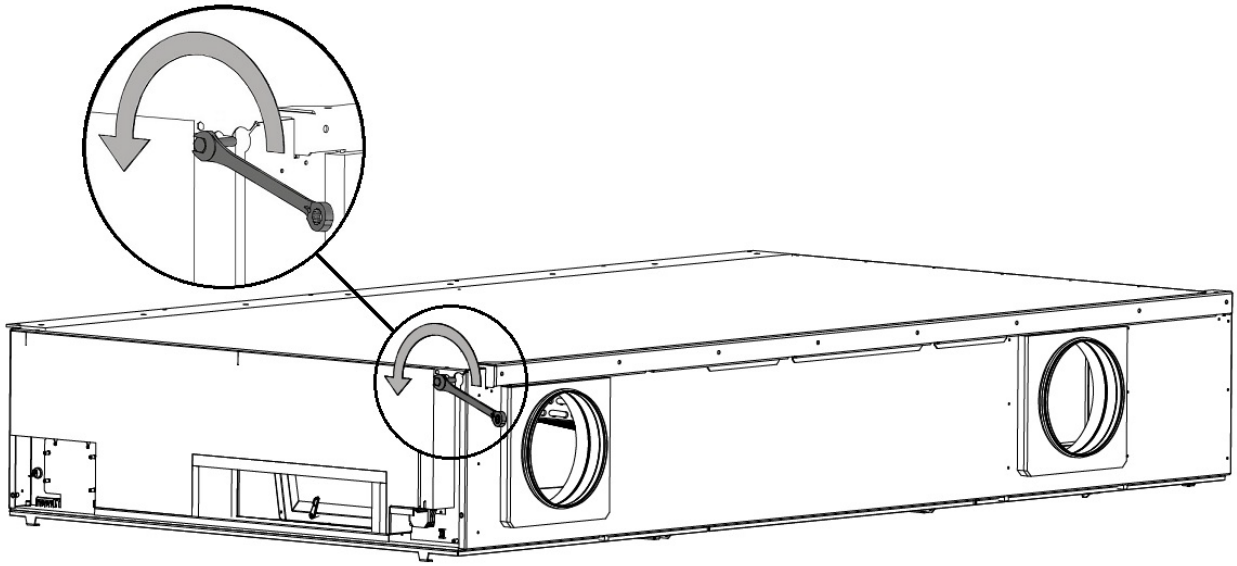


Figure 4: Disassemble the rear bracket, left-hand side seen from behind

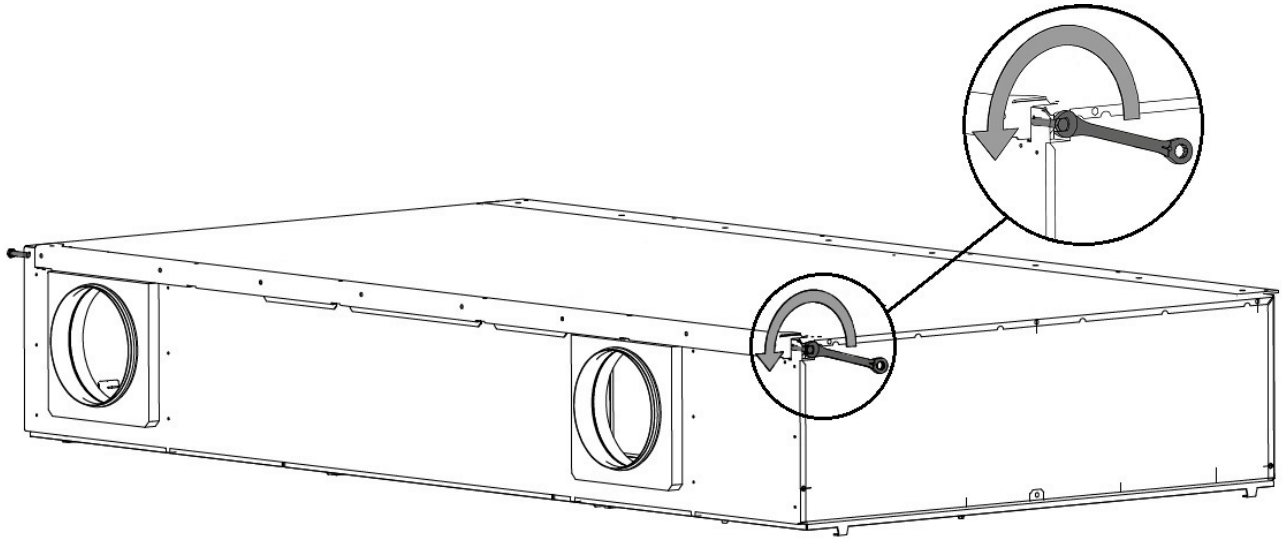


Figure 5: Disassemble the rear bracket, right-hand side seen from behind

Keep the bolts; you need them to mount the unit onto the bracket.

7.2 Mark drill holes

7.2.1 Rear and front brackets

1. Hold the rear bracket against the wall and ceiling. Make sure the bracket is level. See Figure 8.
2. Mark the holes for the rear bracket.
3. Mark the holes for the front bracket, see Figure 8, Figure 9 and Table 5.
   (The front bracket is part of the AMX 4 unit and cannot be disassembled).

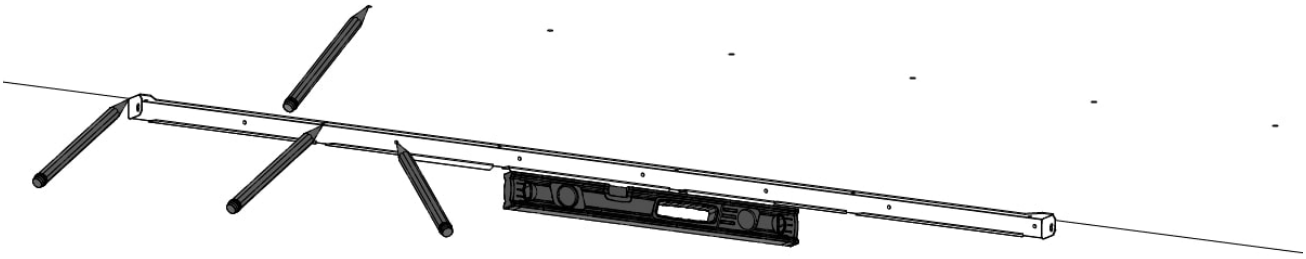


Figure 6: Mark drill holes for the rear and front brackets

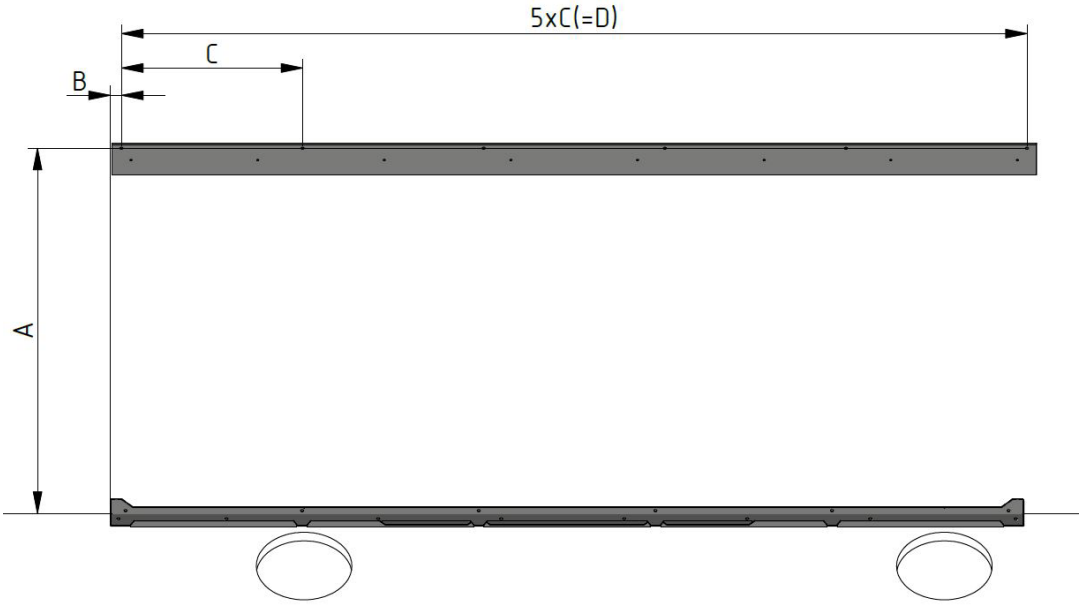


Figure 7: Distances from rear bracket to front bracket

A	B	C	D
1089 mm	32 mm	370 mm	1850 mm

Table 5: Bracket distances

7.2.2 Duct

1. Hold the rear bracket against the wall and ceiling as you did just before. Make sure the bracket is level and in the same place as before.
2. Mark the center of the duct holes, see Figure 10 and Table 6.

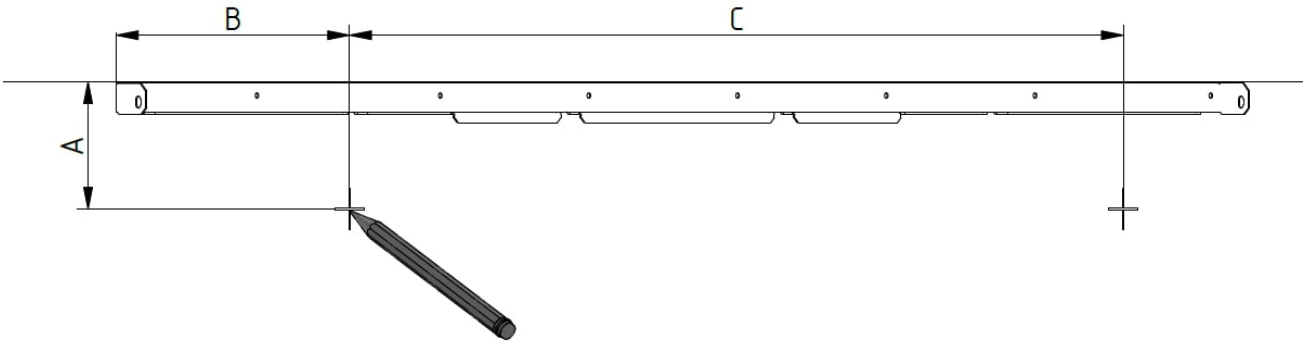
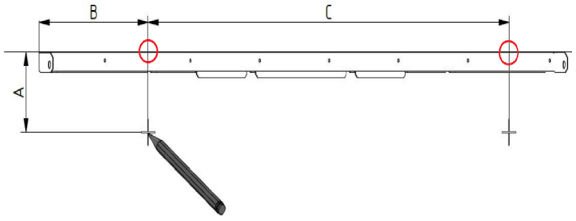


Figure 8: Mark drill holes for the ducts

A	B	C
155 mm	406 mm	1340 mm

Table 6: Duct distances

The rear bracket has two notches on top; these mark the centers of the duct holes. Use this as a reference point to control that your measurements are correct.



7.3 Drill holes

The next step is to drill the holes.

When drilling the duct holes make sure you have the correct gradient as well as size, see the Information Box on page 13.

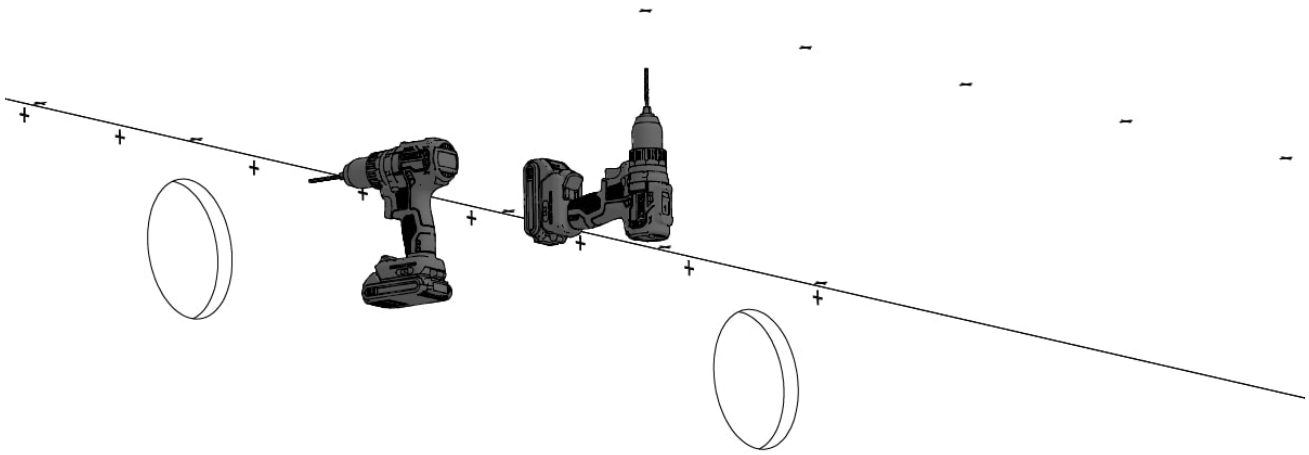


Figure 9: Drill holes

7.4 Mount the bracket

1. Mount the bracket using *all* the attachment points, either on the wall or on the ceiling.

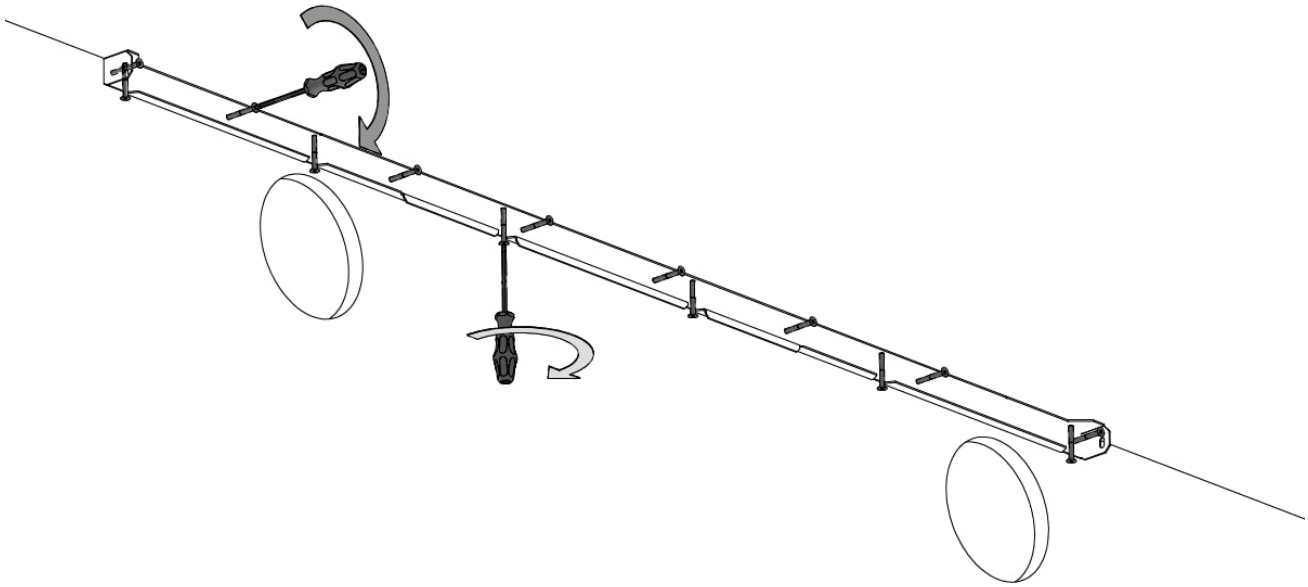


Figure 10: Mount the bracket

7.5 Mount the unit

Use appropriate lifting equipment to lift the AMX 4 unit, refer to section 6.2, Tools and accessories, on page 16.

1. Place a protective underlay between the lift and the unit to prevent scratches, see Figure 13 below.
2. Lift the unit up and onto the bracket. Make sure it is hinged onto the bracket correctly.
   Make sure that the electrical wire and the drain hose do not get squeezed between the wall/ceiling and the unit.
3. Make sure the unit is level.

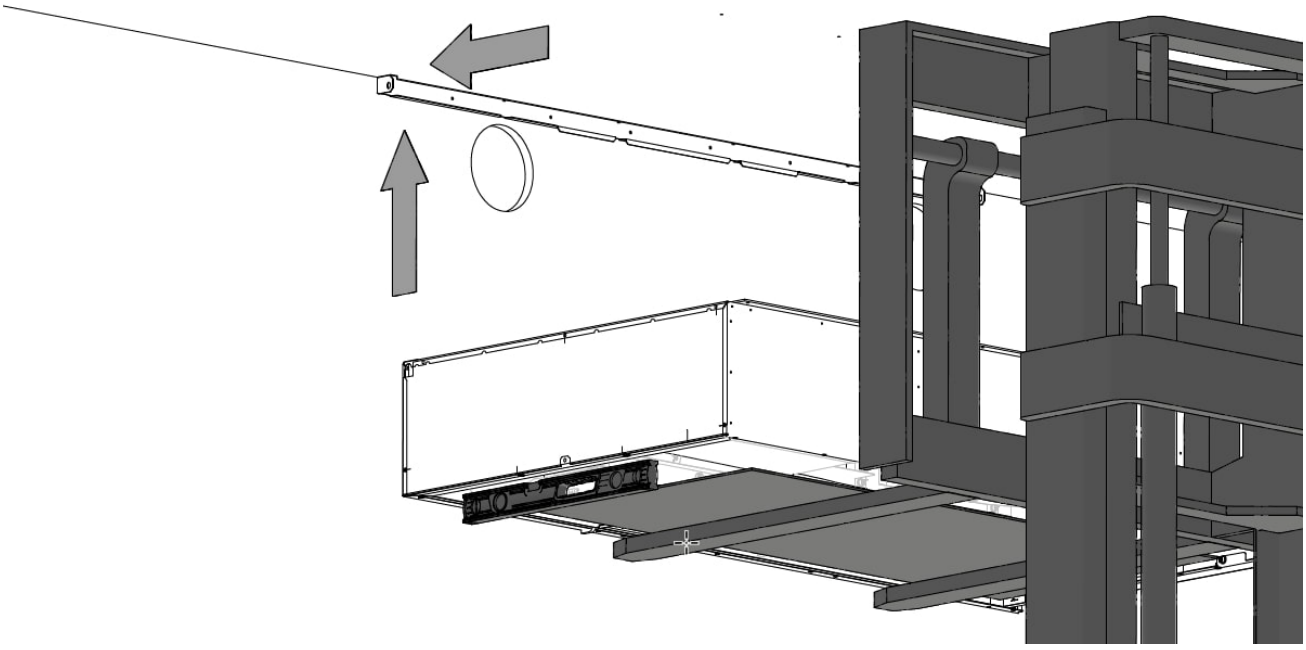


Figure 11: Lift the AMX 4 unit up and onto the bracket

	**WARNING**
	Do not place your hands between the wall and the unit.

4. Attach the unit to the bracket on both sides using the large bolts that you kept when you dismantled it, see Figure 14 and Figure 15.
   The bracket fully supports the unit when mounted correctly.
5. Check that the unit is level.

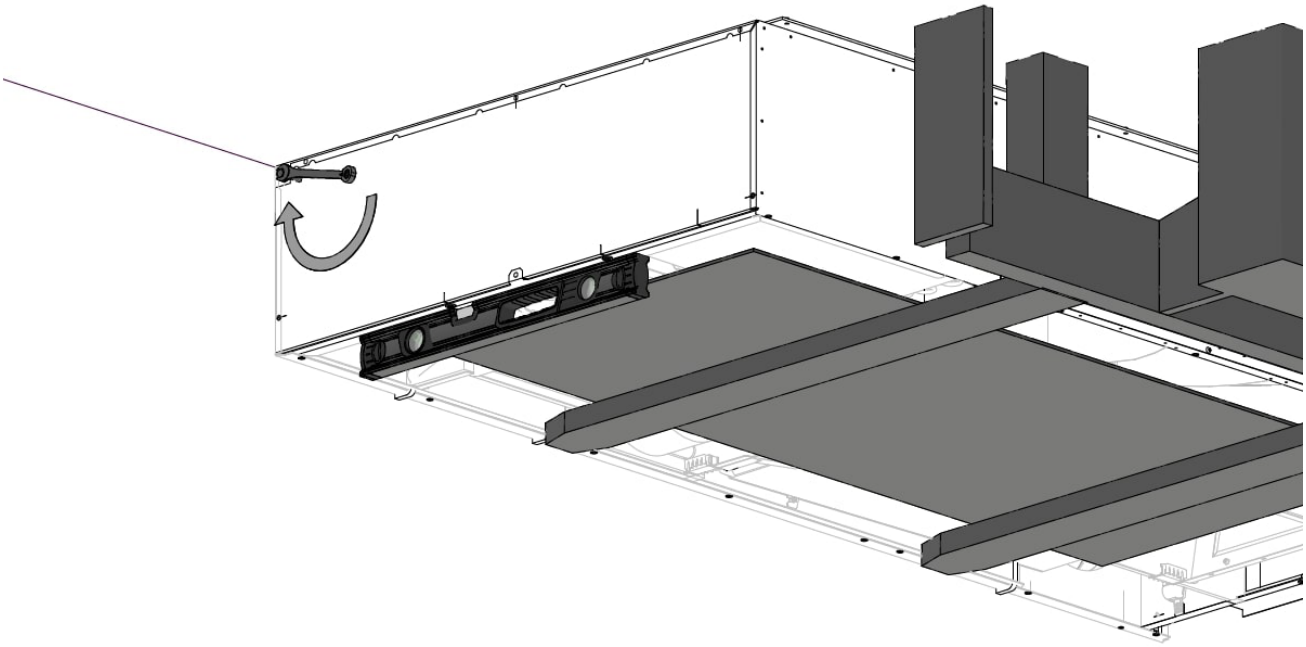


Figure 12: Attach the unit to the bracket, left-hand side

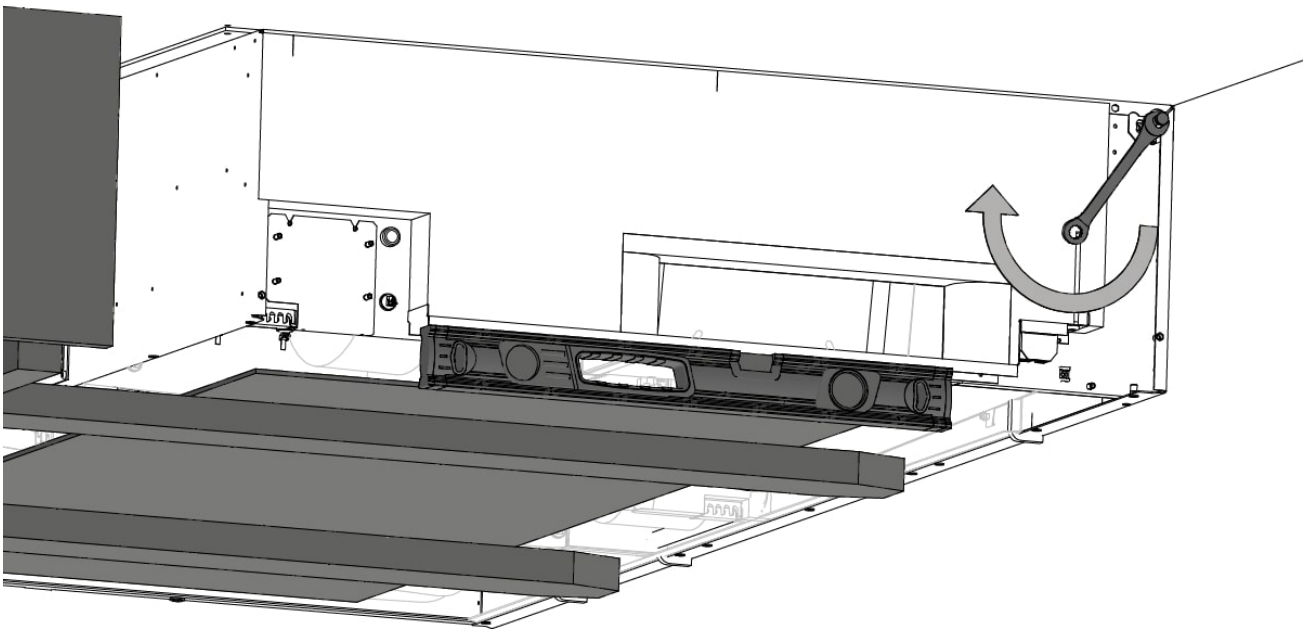


Figure 13: Attach the unit to the bracket, right-hand side

6. Mount the front bracket onto the ceiling, see Figure 16. Use *all* the attachment points.
7. Check that the unit is level.

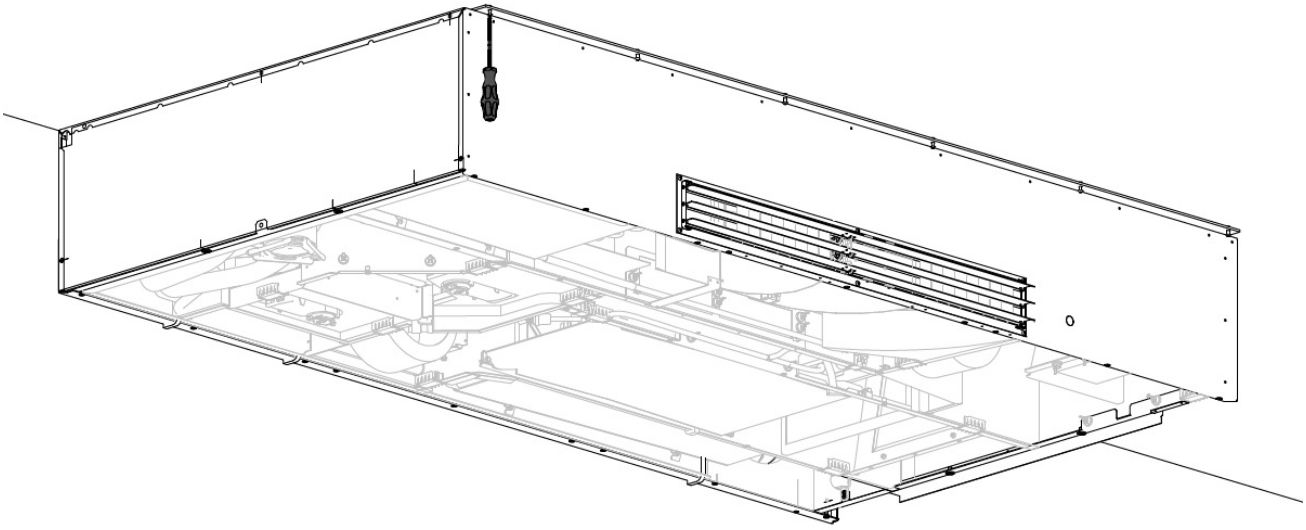


Figure 14: Mount the front bracket to the ceiling

7.6 Mount the duct pipes and grilles

Please note that this section and the following subsection provide a general description of fitting the ducting and subsequent sealing.

Materials and methods for fitting the ducting depend on the customer's order, the options chosen, and the actual site, hence we can only provide general guidance on this matter. However, the steps required are the same:

1. Mount the unit (already done)
2. Fitting the ducting
3. Mount the outside grille.

Figure 17 provides a general overview.

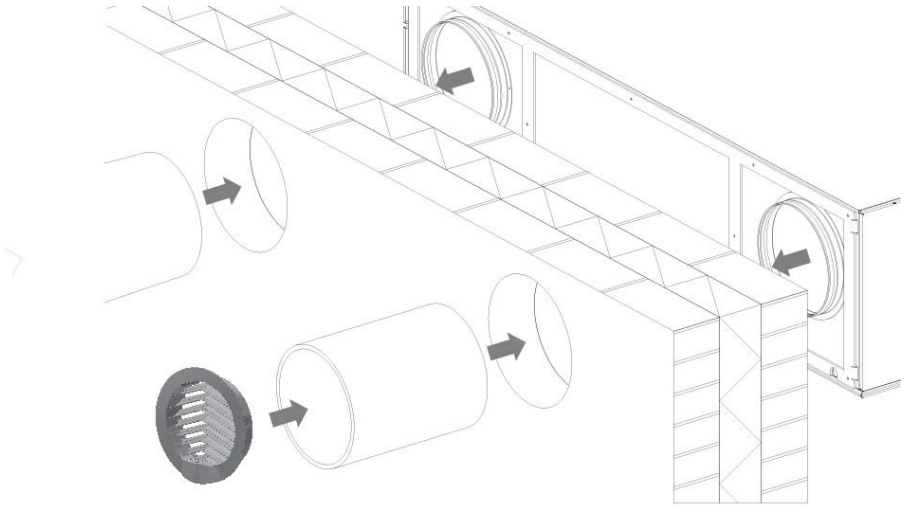


Figure 15: Duct pipes and grilles - general overview

	NOTICE
	• Ventilation ducts must be installed according to local standards and rules in effect. • Condensation and heat insulation must be performed according to local standards and rules in effect. • Fire requirements according to local standards and rules in effect must be observed.

Important information:

- The length of the ducting is calculated based on the thickness of the wall.
- Make sure the ducts do not get twisted or compressed against the exhaust air spigot/intake air spigot on the unit, as this will increase the noise level.
- Exhaust air ducts and intake air ducts must be insulated against condensation if they are within the building envelope.
- Exhaust air ducts and intake air ducts must be insulated against noise if they are visible.
- Sealant must be applied to the outside and inside, see 7.7.1 on the next page.
- An outside grille must be mounted. Please refer to our website for more information on the Boomerain® grille shown in Figure 17 above.

7.6.1 Sealing

Figure 18 below is a sectional drawing depicting a wall with a duct hole and duct fittings. A unit is installed on the inner wall, i.e., the brown box on the right-hand side marked with the number ‘1’.

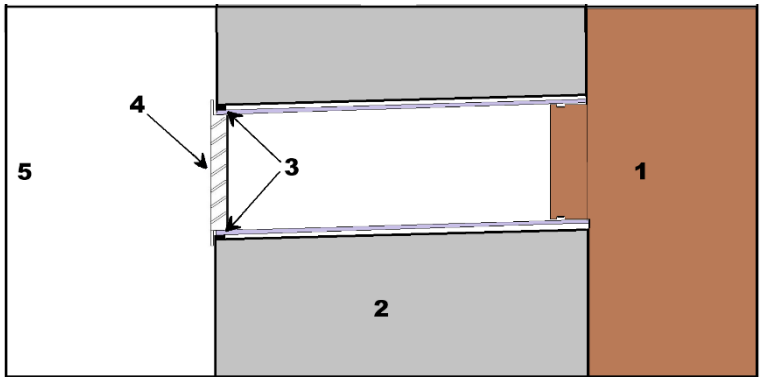


Figure 16: Sealing the gaps around ducts, sectional drawing

1	Unit installed in a room
2	Wall
3	Sealing points on the outside
4	Grill
5	Outside

Table 7: Sealing points

- Apply sealant to the ducts' outside edges, see ‘3’ in Figure 18 above.
- Apply sealant to the inside around the base and sides of the unit, i.e., between the unit and the wall, see Figure 19 below.

  Depending on the condition of the wall, use a sealant that retains long-term elasticity or expanding sealing tape to form a flexible seal.

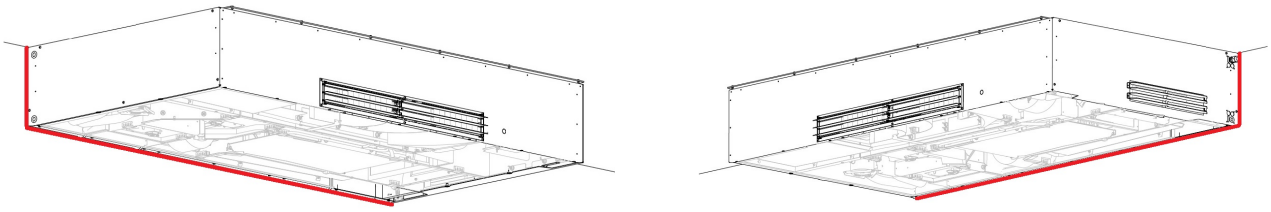


Figure 17: Sealing around the unit

7.7 Condensate drainage

Please note that this section provides general information about condensate drainage. We can only provide general guidance as drainage connections depend on the site.

The AMX 4 unit is supplied with a drain hose; the hose length varies depending on the customer's order.

Drainage can be done in various ways; one is to connect the drain hose to a wastewater pipe, and another is to lead the hose through the outer wall. Other options also exist.

If the drainage hose is connected to a waste-water pipe, we recommend installing a water trap to block unpleasant odors emanating from the waste-water system, see Figure 20 below.

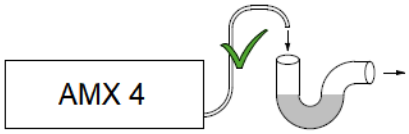


Figure 18: Water trap to avoid odors

The drainage hose can also be led through the outer wall; when doing so, the hose *must* be protected against ice formation.

If you wish to lead the drainage hose through the wall, drill a hole with a suitable diameter and an outwardly sloping gradient of 1-2%.

Remember to seal the joint between the hose and the outer wall.

7.7.1 Routing the condensate hose

The condensate hose is coiled up on the side of the AMX unit; it needs to be routed to one of the hose grommets at the back of the unit.

Carefully push the insulation foam aside and route the hose along the top of the side towards the back of the unit. If you wish to use the lower grommet route the hose downwards once you reach the back of the unit, see Figure 19 below.

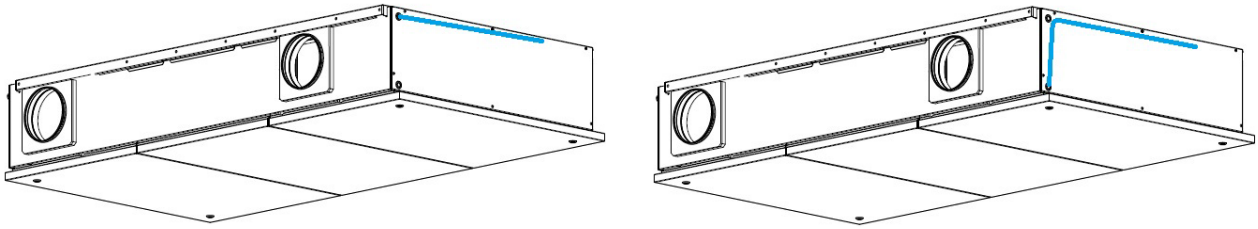


Figure 19: Condensate hose routing: upper and lower grommet

Make sure the hose does not twist, kink, or bend too much; you need a soft angle if you route it down to the lower grommet.

This also applies to the hose in general: make sure it does not twist, kink or bend too much on its route towards the drain.

Leave the hose at the back until you mount the side cover; when doing so, pull the hose through the grommet and finish the drainage connection.

7.8 Remove the transportation safeguard

The compressor is secured with a transportation lock; this needs to be loosened before the unit is closed up.

1. Locate the compressor, see Figure 21 below.
2. Locate the transportation lock, see Figure 22.
3. Loosen the bolt and pull it downward. It cannot be disassembled, but it must be loosened completely. The compressor will now be supported/hanging by the springs.

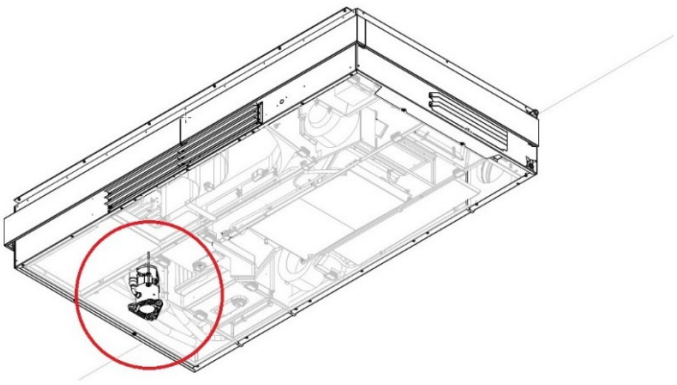


Figure 20: Compressor

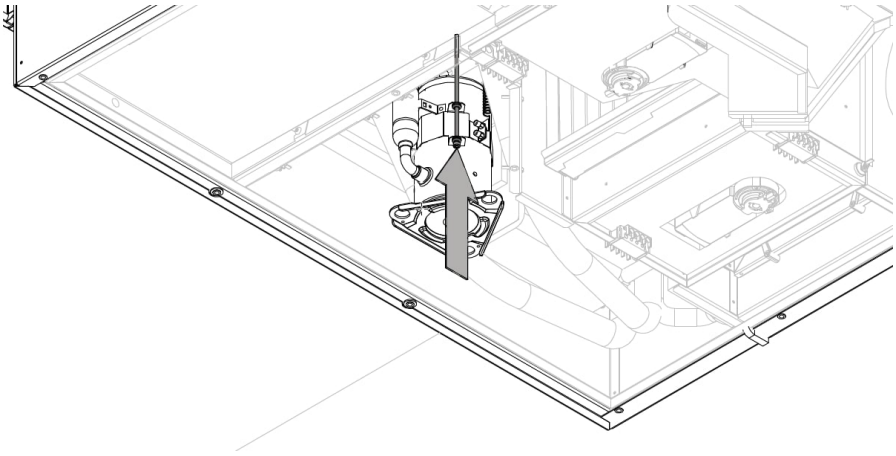


Figure 21: Transportation lock

	NOTICE
	• There is a risk of increased noise level if the transportation lock is not loosened completely. • The lifespan of the compressor is reduced if the transportation lock is not loosened completely.

7.9 Mount the side covers

Mount the side covers, see Figure 23 and Figure 24.
Remember to pull the condensate hose through the grommet before mounting the left-hand side cover.

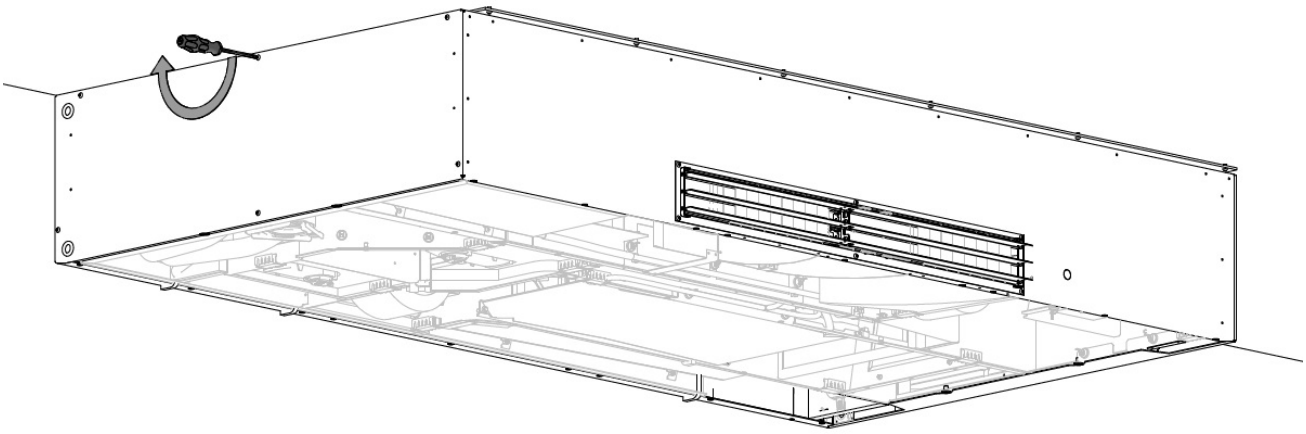


Figure 22: Mount the side cover, left-hand side

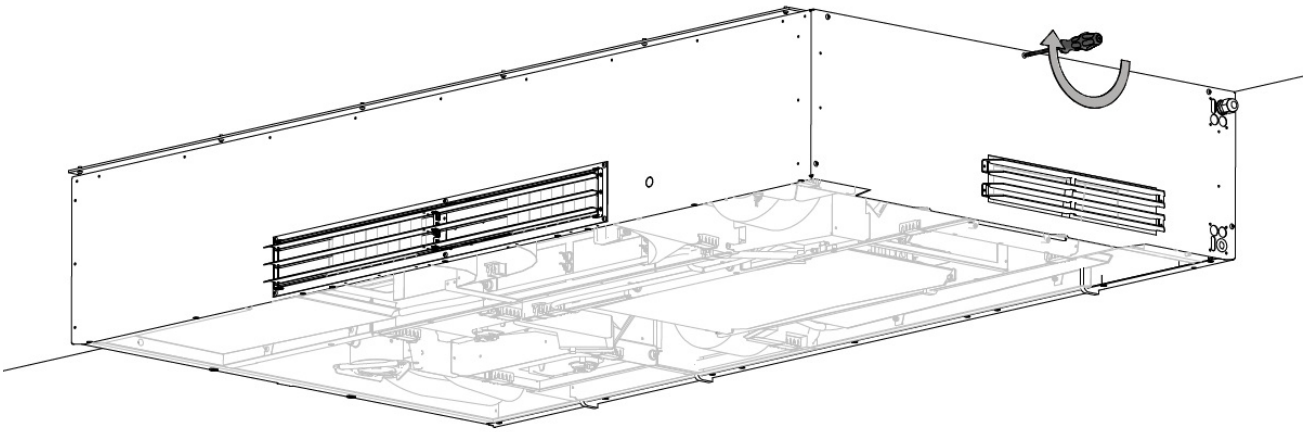


Figure 23: Mount the side cover, right-hand side

7.10 Mount panel brackets

Please note that panel brackets and panels may not be part of the delivery.

1. Mount the panel brackets. There are two on each side and one in the front of the unit, see Figure 25 and Figure 26 below.

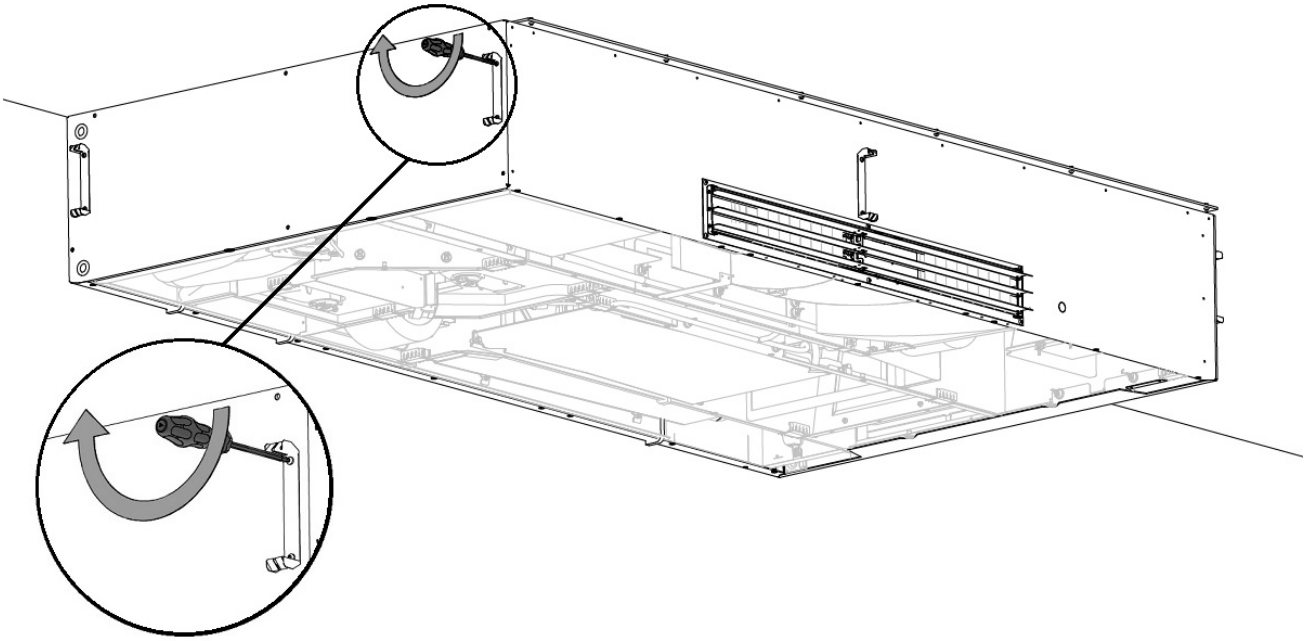


Figure 24: Mount the panel brackets, left-hand side

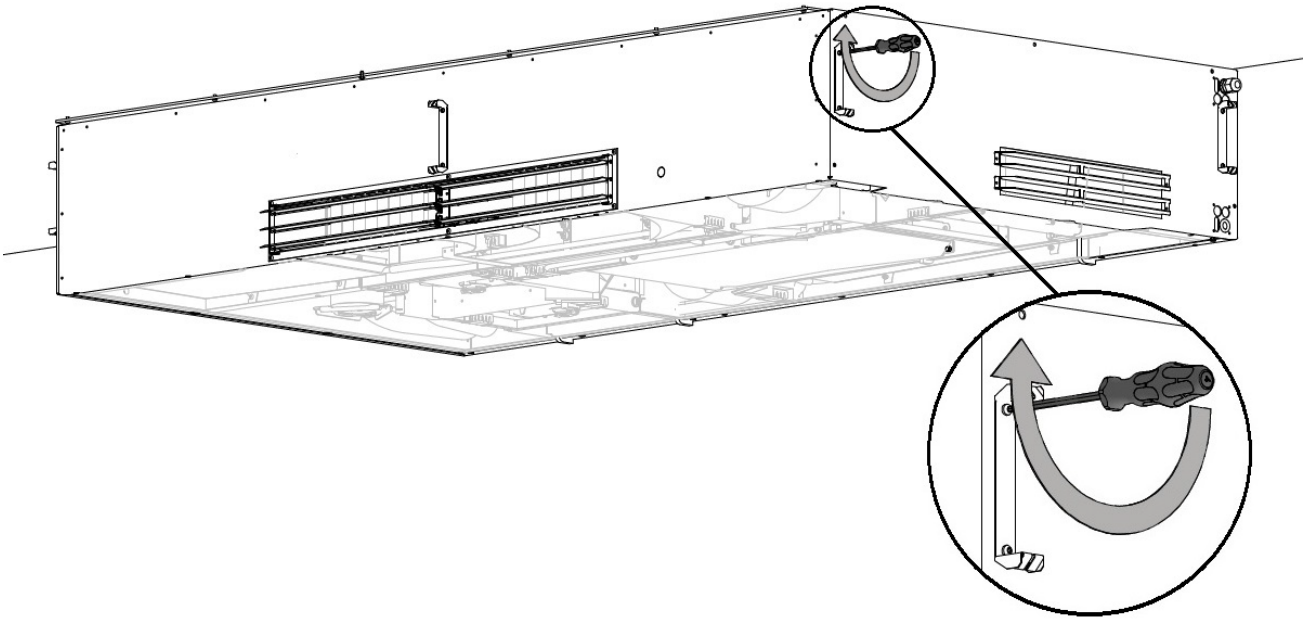


Figure 25: Mount the panel brackets, right-hand side

7.11 Mount panels

Please note that panel brackets and panels may not be part of the delivery.

1. Carefully take one panel at a time and click it onto the brackets. Take care not to scratch the panels. See Figure 27 and Figure 28 below.

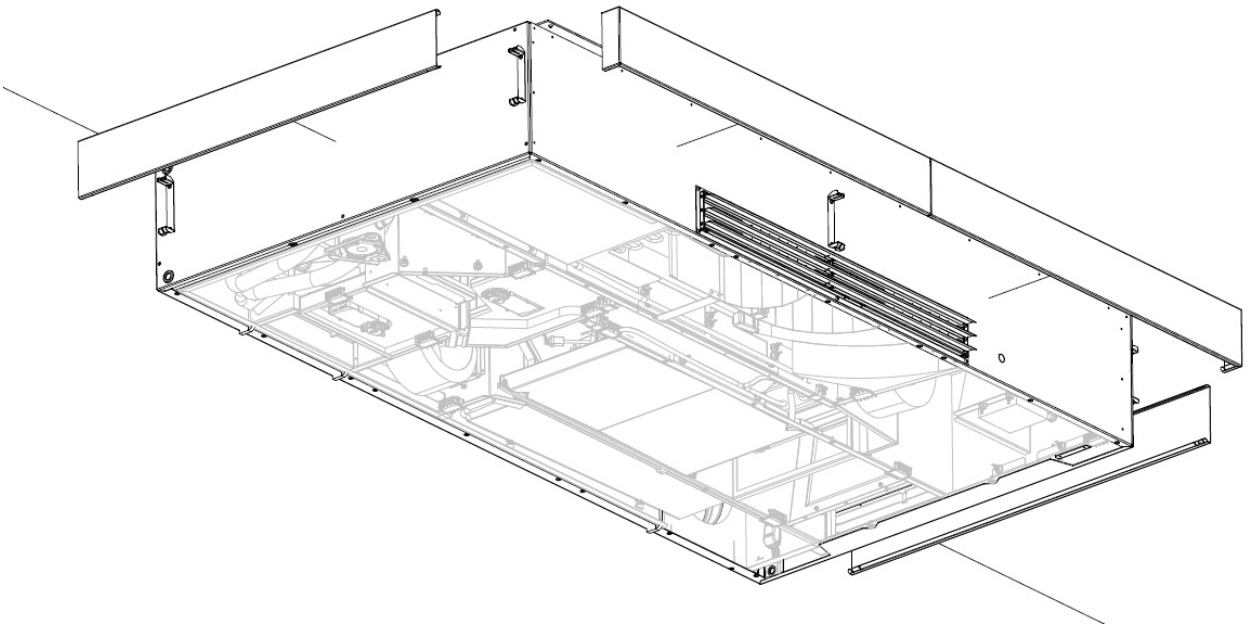


Figure 26: Click the panels onto the brackets

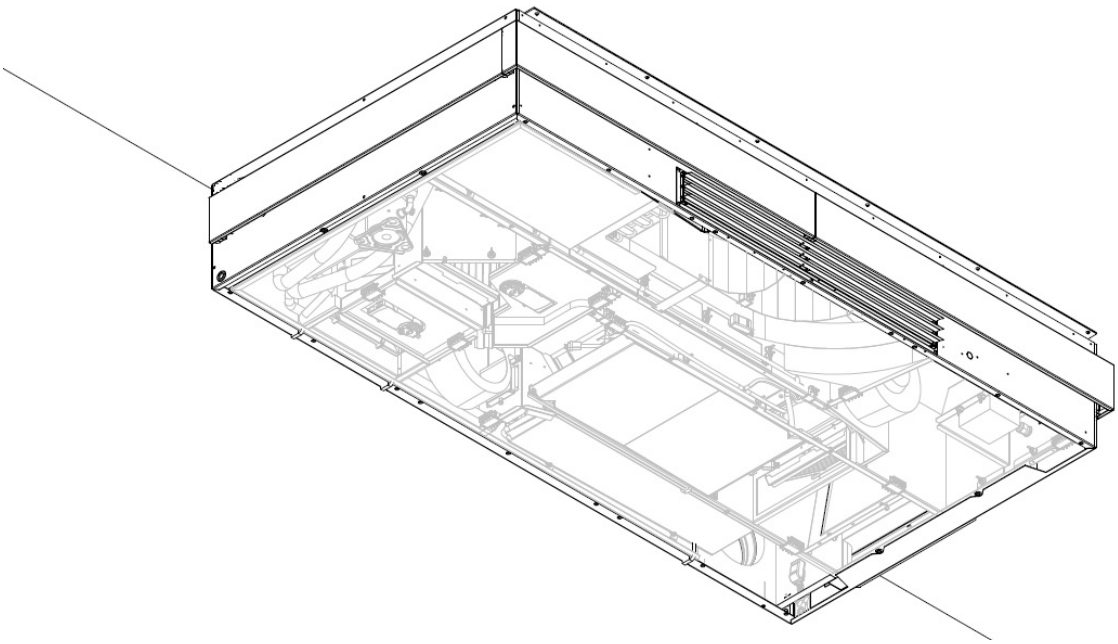


Figure 27: Panels fully mounted

7.12 Mount the steel plates

The next step is to mount the steel plates on the bottom of the unit. Three plates need to be mounted. You start with the middle one, then mount the plates on each side. Please note that the steel plate in the middle may be pre-mounted. In this case, proceed to step 5 on page 37.

1. Screw two of the long bolts into the middle frame, see Figure 29 and Figure 30 below. Note that you must leave at least 10 mm between the frame and the bolt head to ensure the keyhole on the steel plate functions correctly.

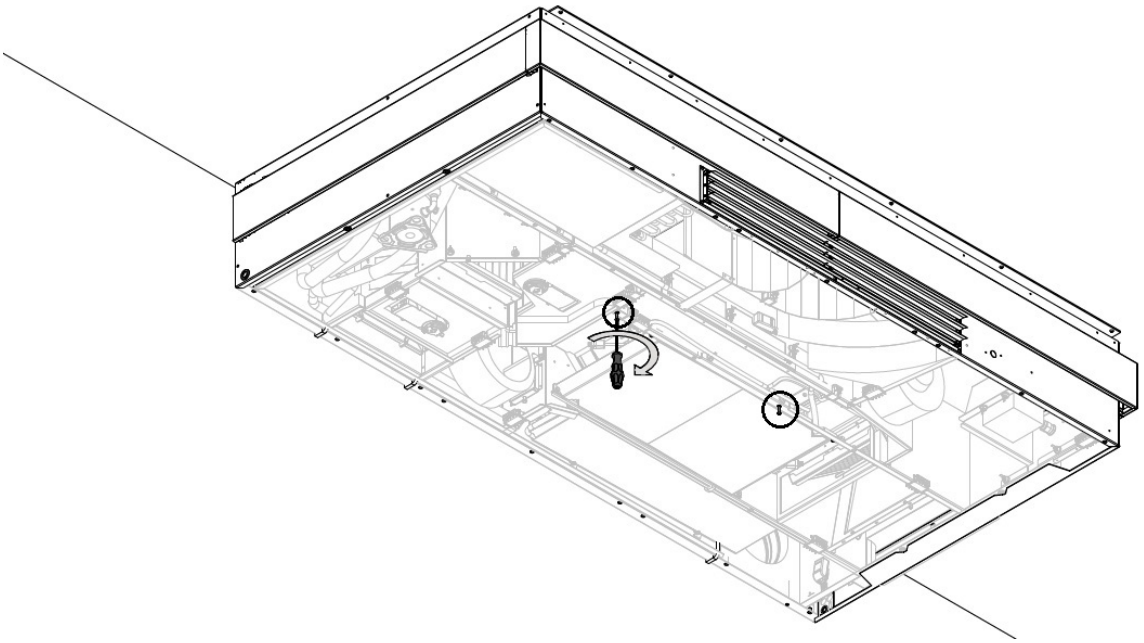


Figure 28: Screw two long bolts onto the middle frame

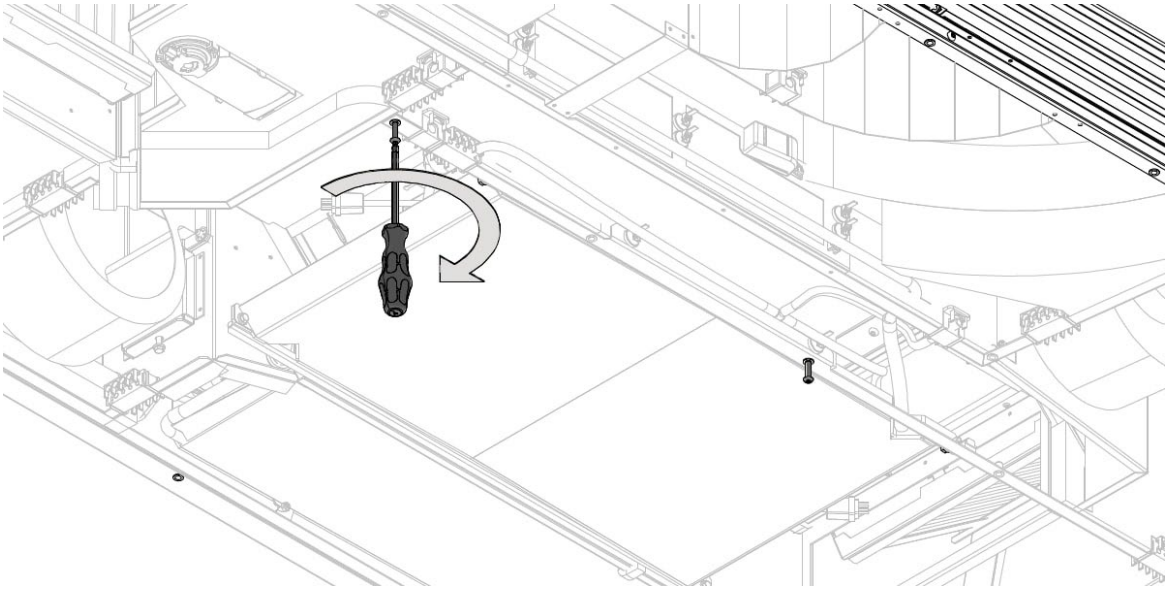


Figure 29: Detailed view of the middle frame with bolts mounted

2. Lift the middle steel plate up and onto the bolts. The bolt heads must go into the round part of the keyhole, then push the plate right-wise to lock the plate into the narrow part of the keyhole, see Figure 31, Figure 32, Figure 33, and Figure 34.

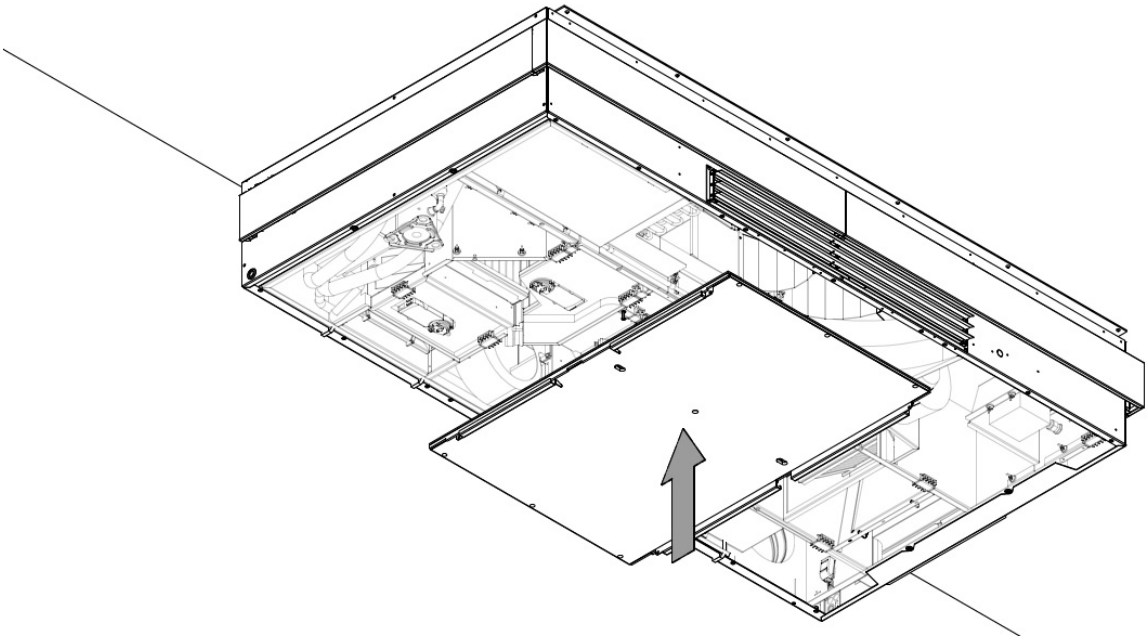


Figure 30: Lift the middle steel plate

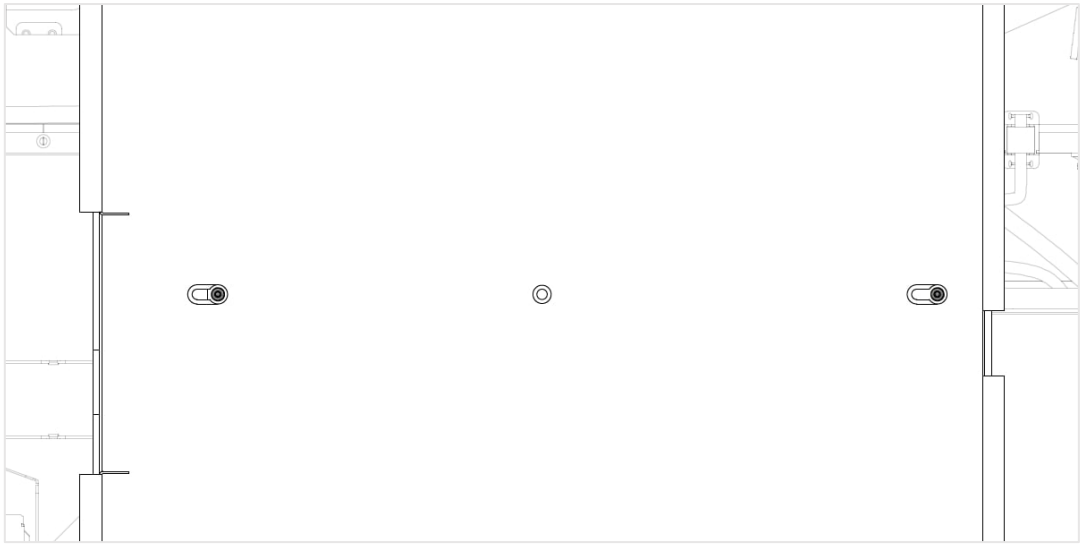


Figure 31: The bolt head must go through the round part of the keyhole

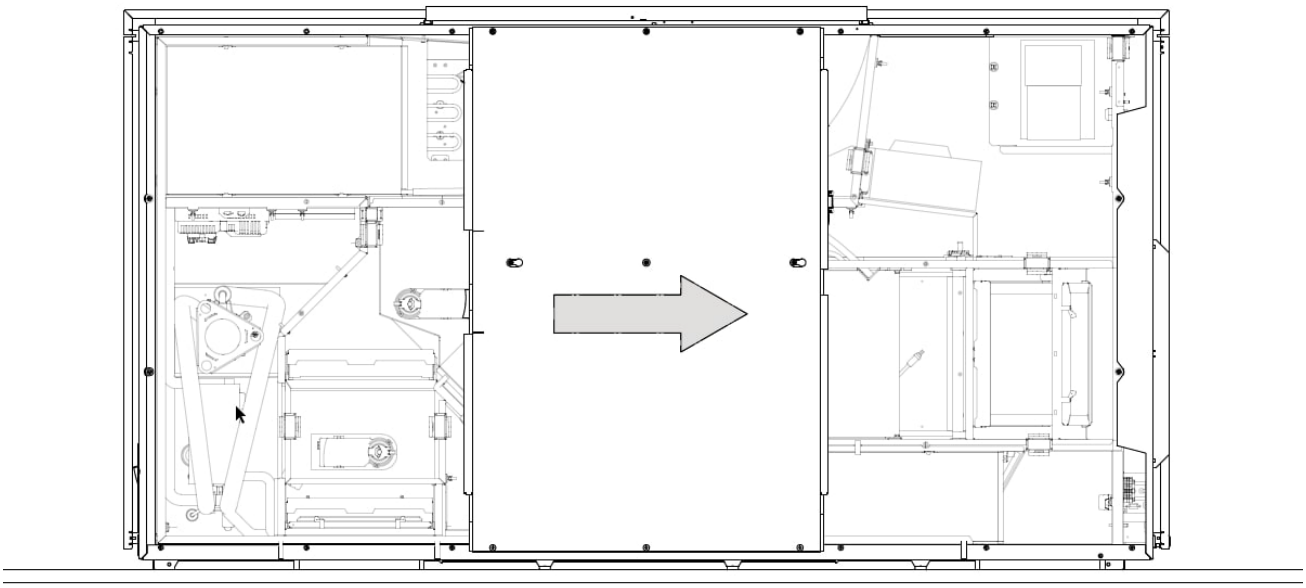


Figure 32: Push the steel plate right-wise

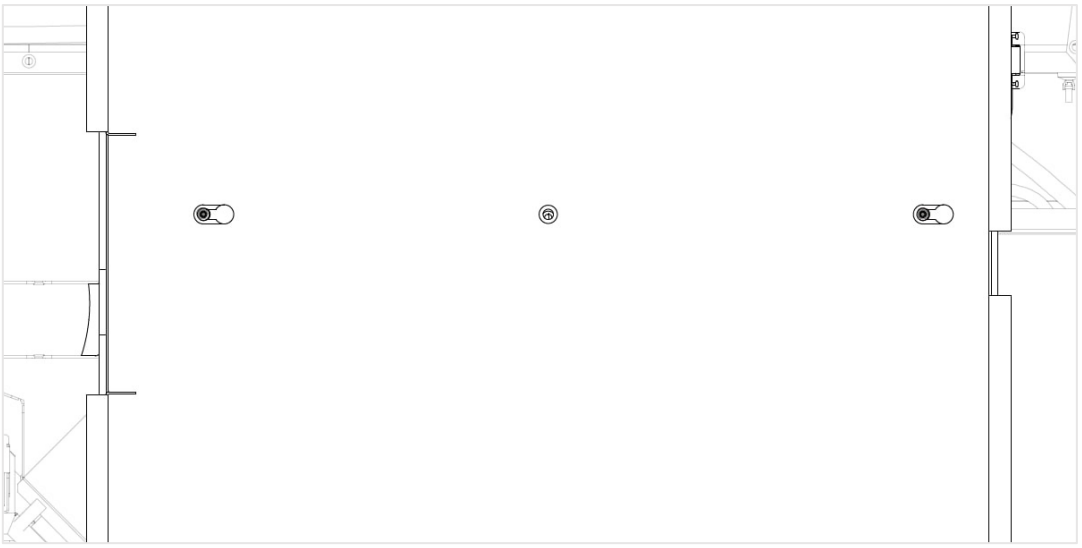


Figure 33: Steel plate locked into the narrow part of the keyhole

3. Screw the steel plate into the unit frame using seven short bolts, see Figure 35 below.

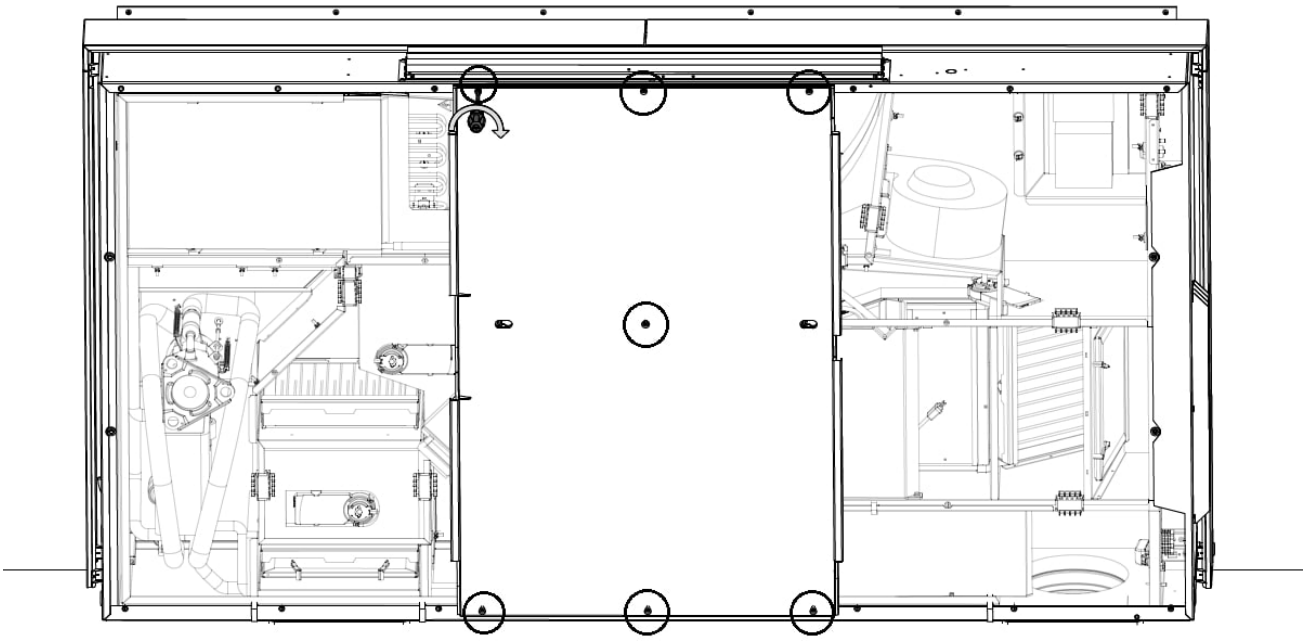


Figure 34: Attachment points for the middle steel plate

4. Tighten the bolts in the keyhole, see Figure 36.

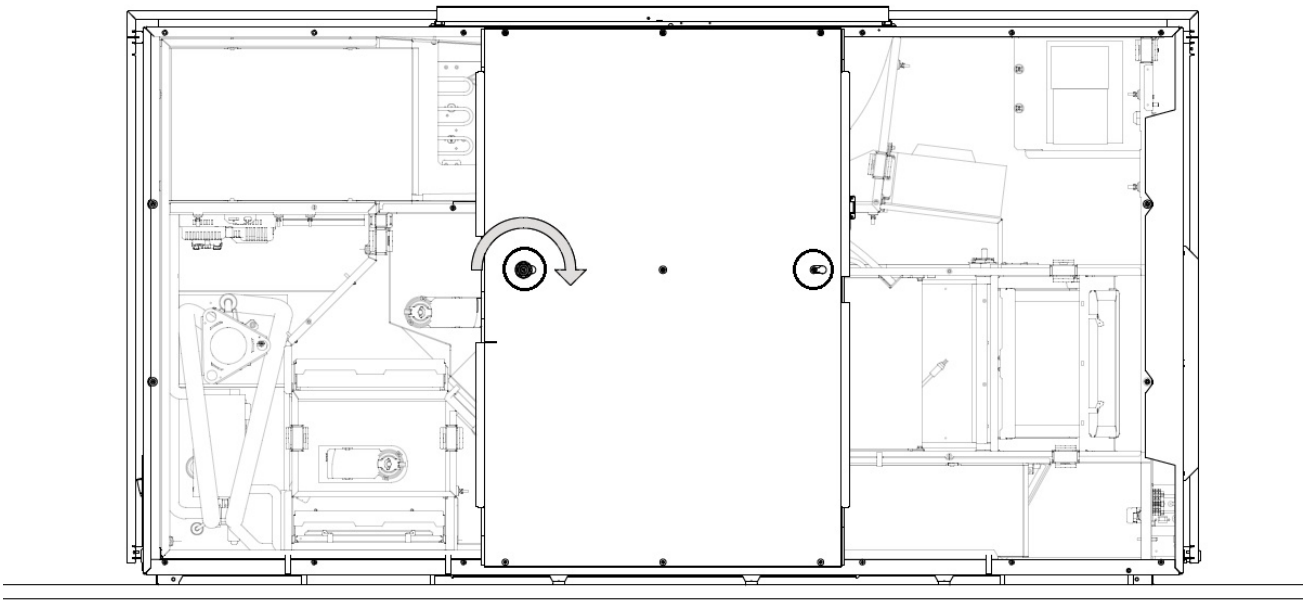


Figure 35: Tighten the bolts

The next step is to mount the plates on both sides to close the unit.

5. Screw two of the long bolts into the frame on the left-hand side, see Figure 37. Remember to leave at least 10 mm. between the frame and the bolt head for the keyhole.

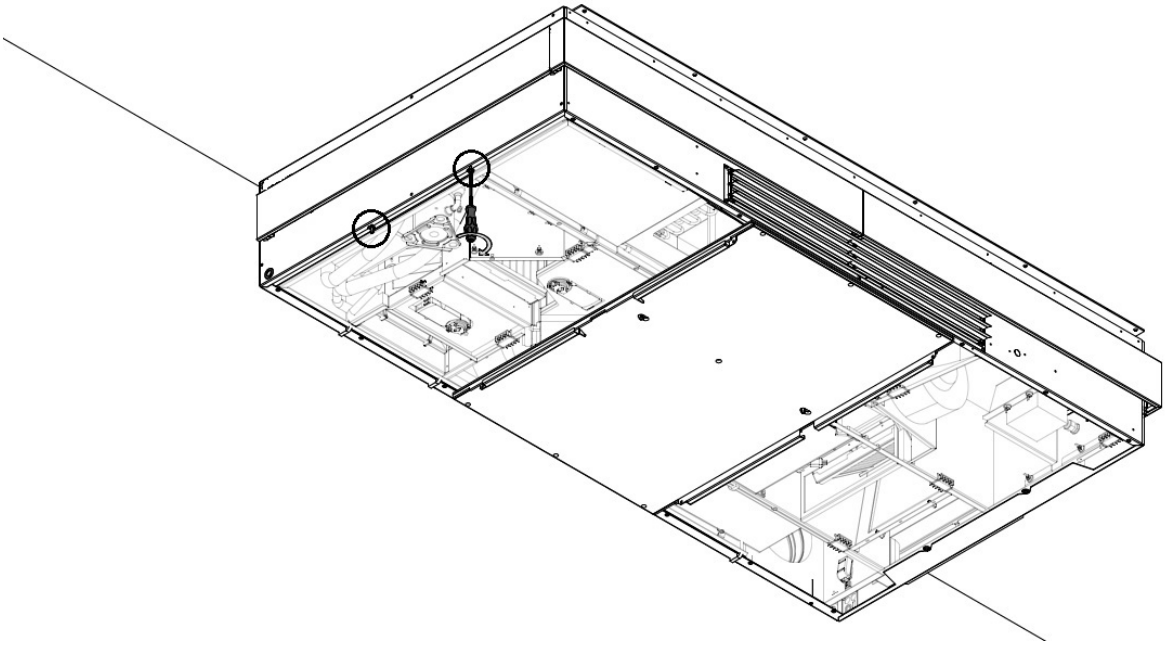


Figure 36: Screw two long bolts onto the left-hand side frame

6. Lift the left-hand side plate up and onto the hinges of the middle steel plate, see Figure 38 below. Make sure the hinges for the filter hatch are closed before you lift the steel plate, see Figure 39.

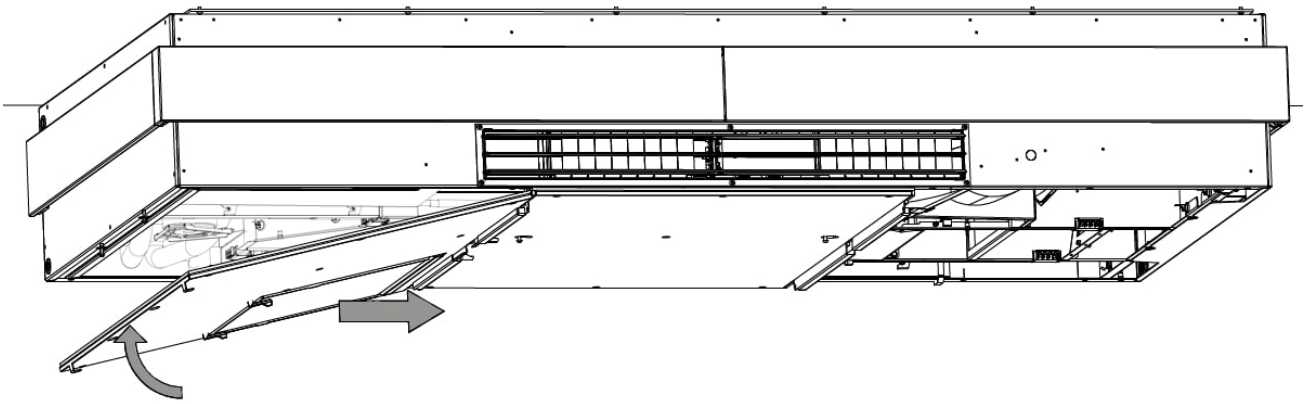


Figure 37: Lift the left-hand side plate onto the hinges

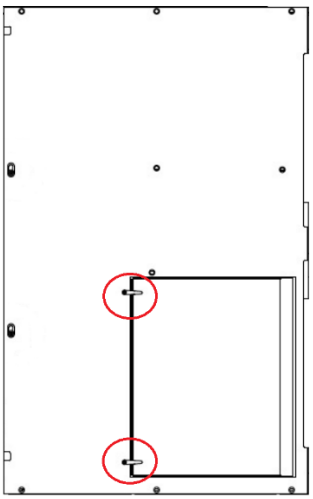


Figure 38: Filter-hatch hinges must be closed

7. Next, you lift the plate up and onto the bolts you mounted in step 5.
   Just as before, the bolt heads must go into the round part of the keyhole, then push the plate toward the wall, locking the plate into the narrow part of the keyhole, see Figure 40, Figure 41, and Figure 42.

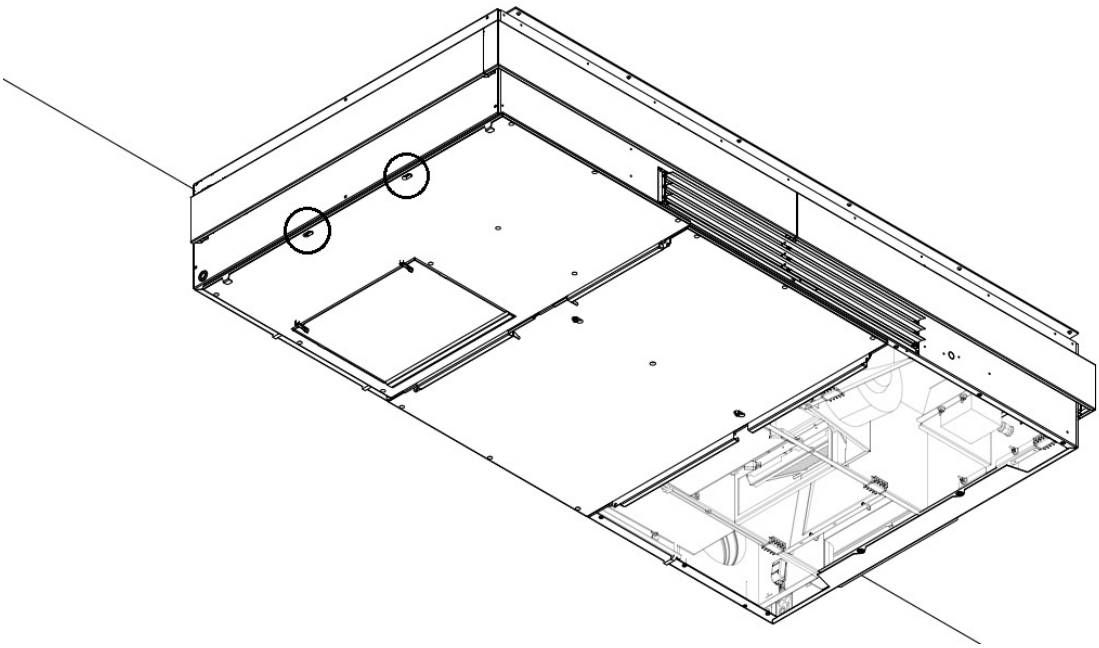


Figure 39: Keyhole on left-hand steel plate

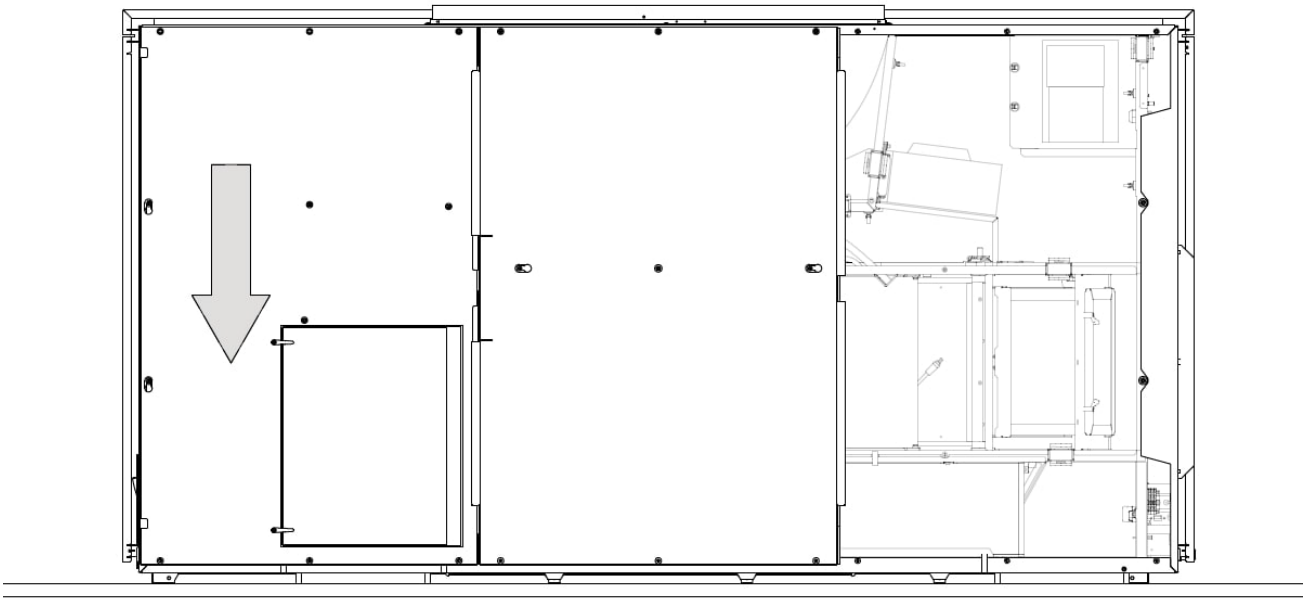


Figure 40: Push the steel plate toward the wall

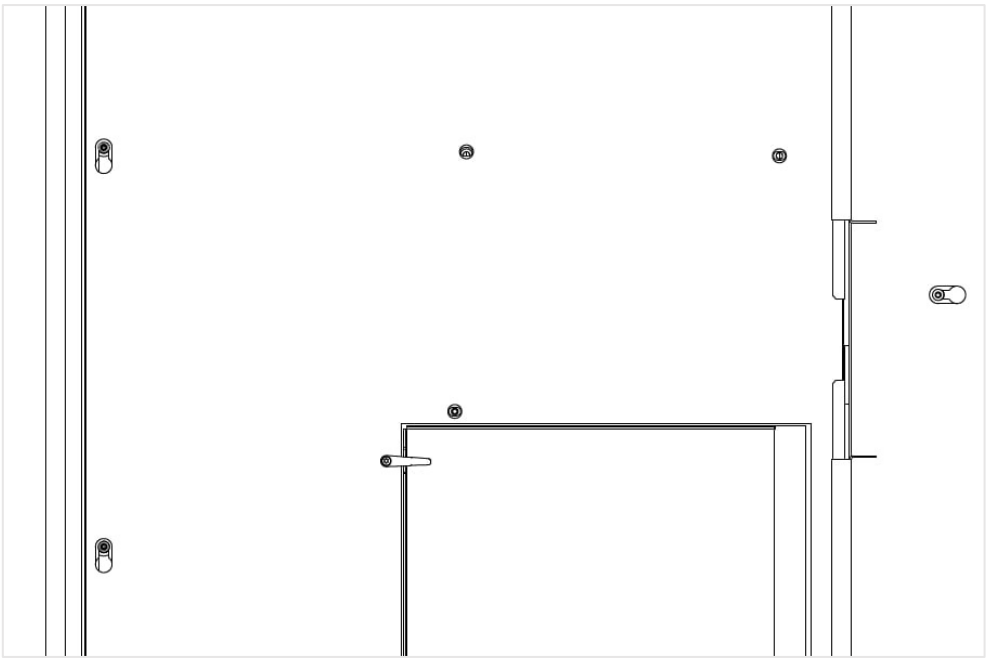


Figure 41: Steel plate locked into the narrow part of the keyhole

8. Screw the steel plate into the unit frame using nine short bolts, see Figure 43.

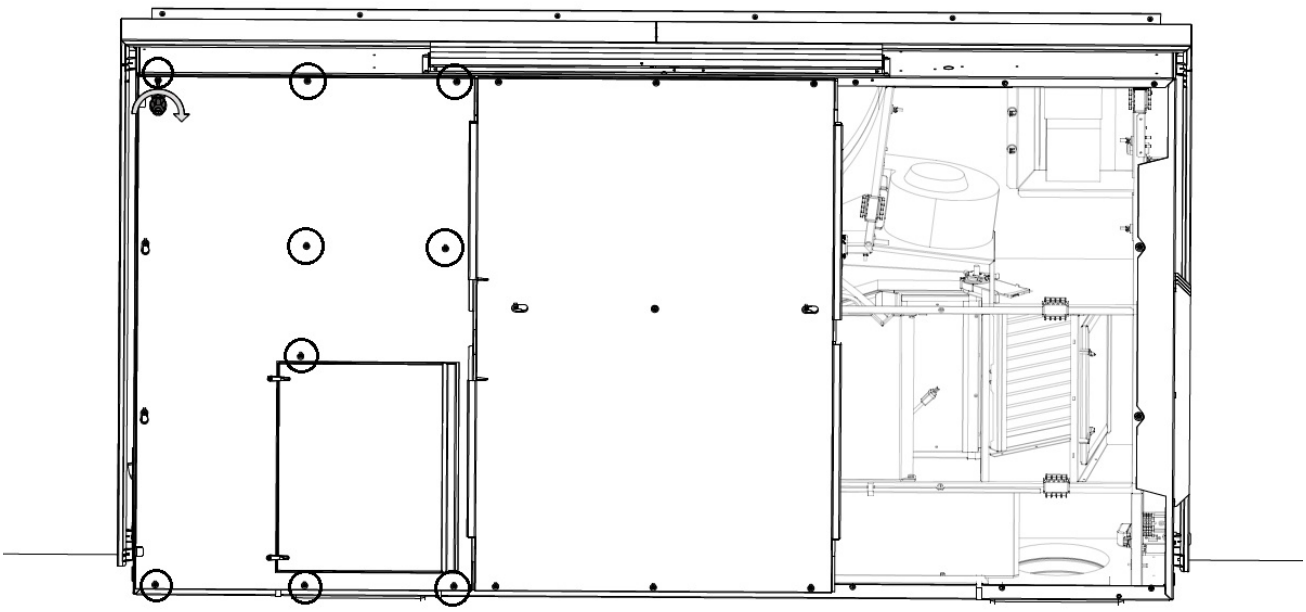


Figure 42: Attachment points for the left-hand steel plate

9. Tighten the bolts in the keyhole, see Figure 44.

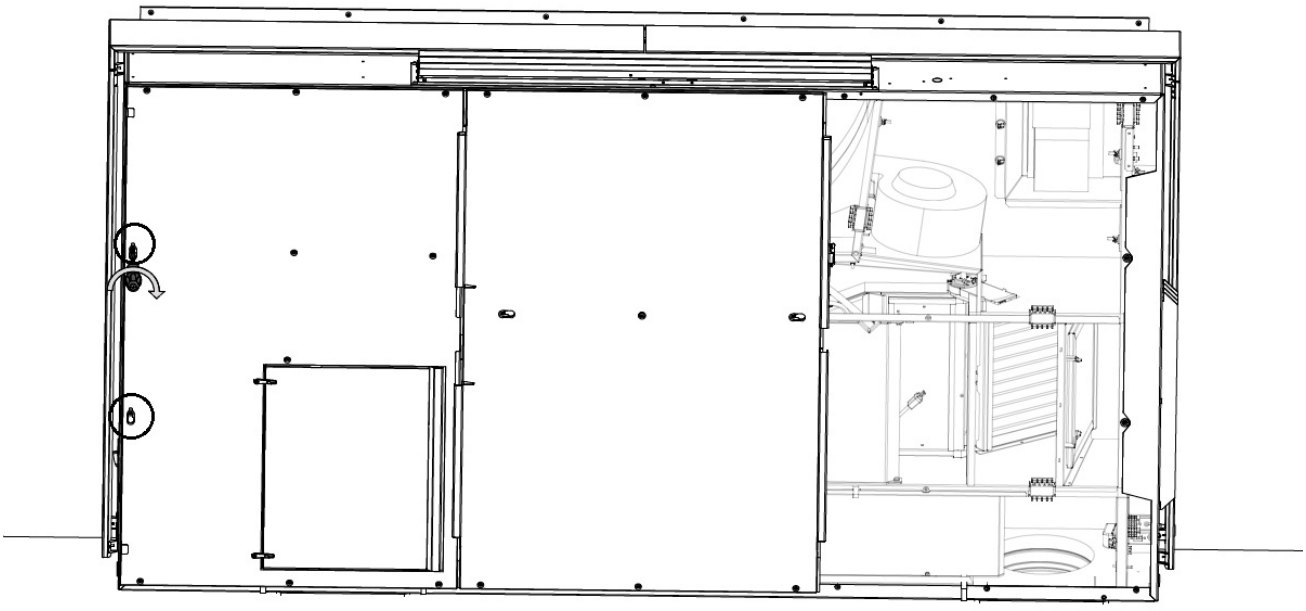


Figure 43: Tighten the bolts

The next step is to mount the steel plate on the right-hand side; this is done in the same way as the left-hand side.

10. Screw two long bolts into the frame on the right-hand side, see Figure 45 below. Remember to keep at least a 10 mm distance between the frame and the bolt head.

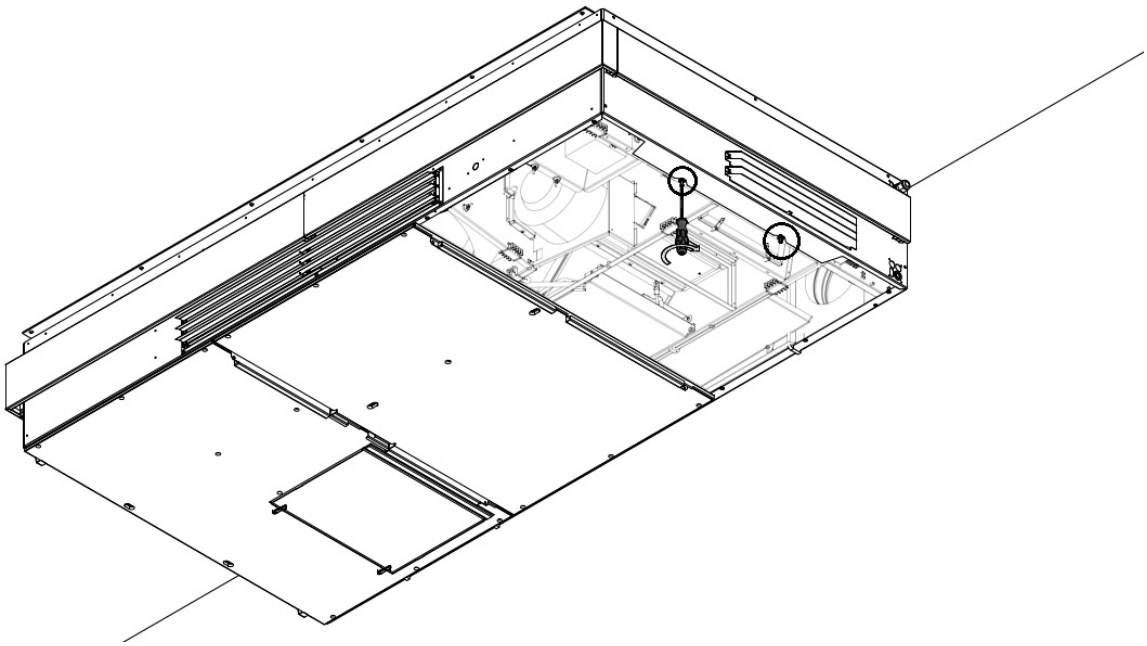


Figure 44: Screw two long bolts onto the right-hand side frame

11. Lift the plate up and onto the hinges just as you did on the other side, see Figure 46.
    Make sure the hinges for the filter hatch are closed before you lift the steel plate.

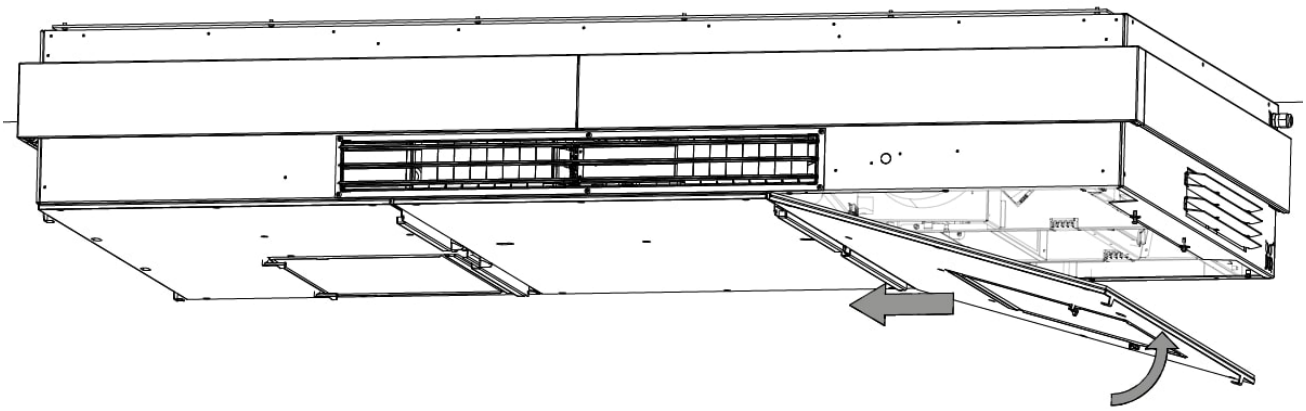


Figure 45: Lift the right-hand side plate onto the hinges

12. As before, lift the plate and slide it toward the wall to lock it, see Figure 47 and Figure 48.

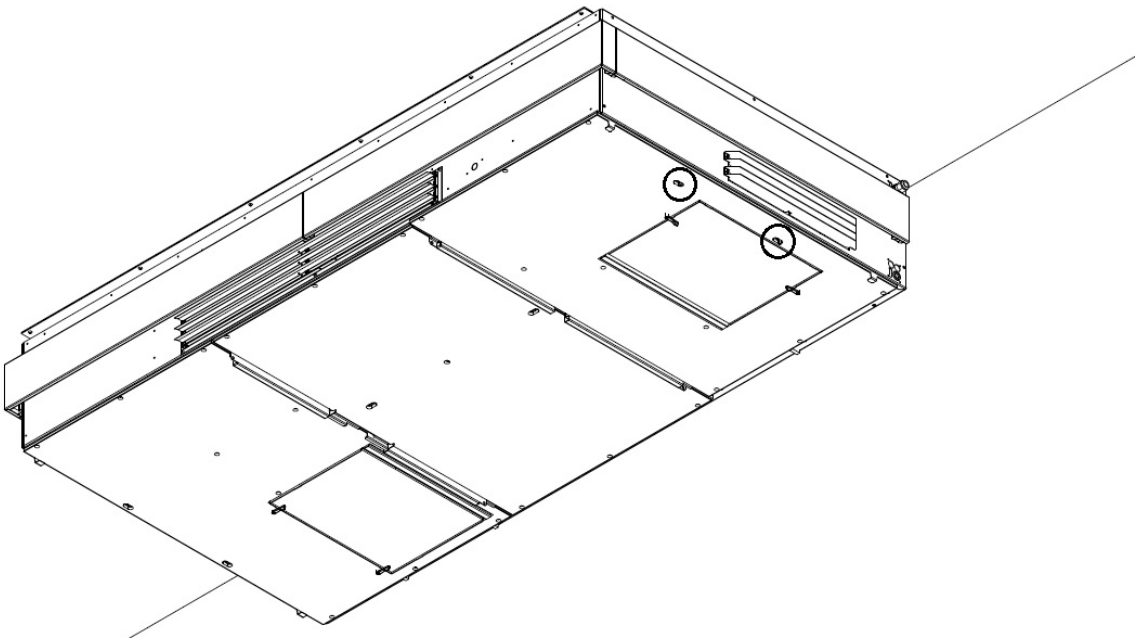


Figure 46: Keyhole on the right-hand steel plate

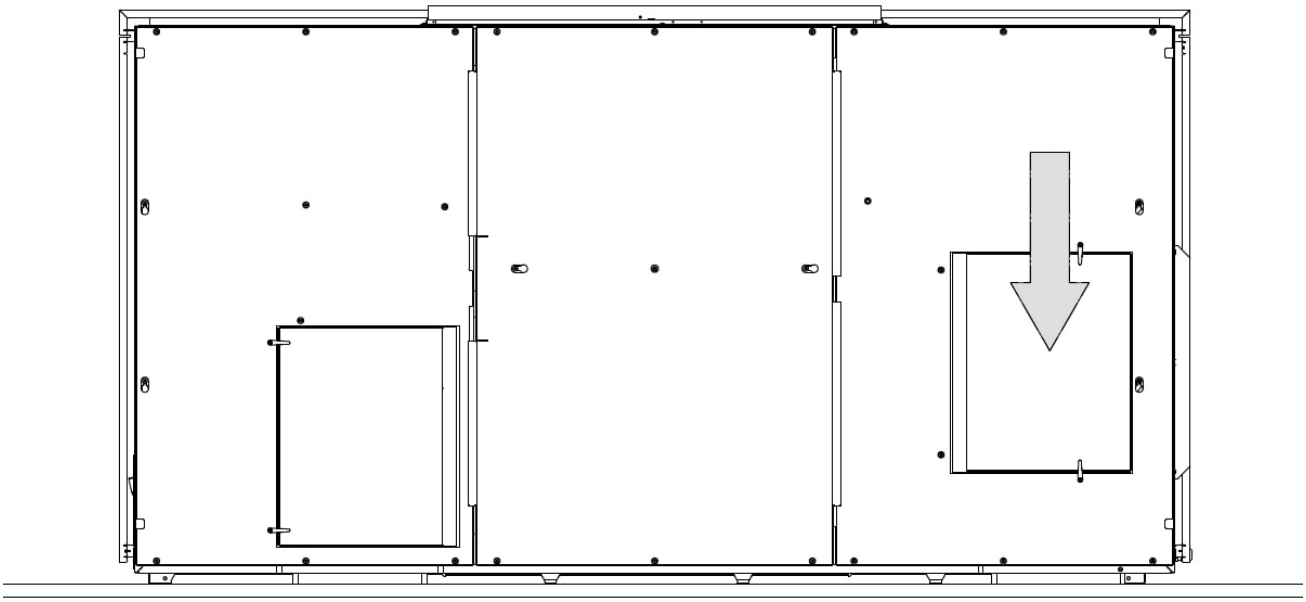


Figure 47: Push the steel plate toward the wall

13. Screw the steel plate into the unit frame using nine short bolts, see Figure 49. Once this is done, proceed to tighten the bolts in the keyhole, see Figure 50.

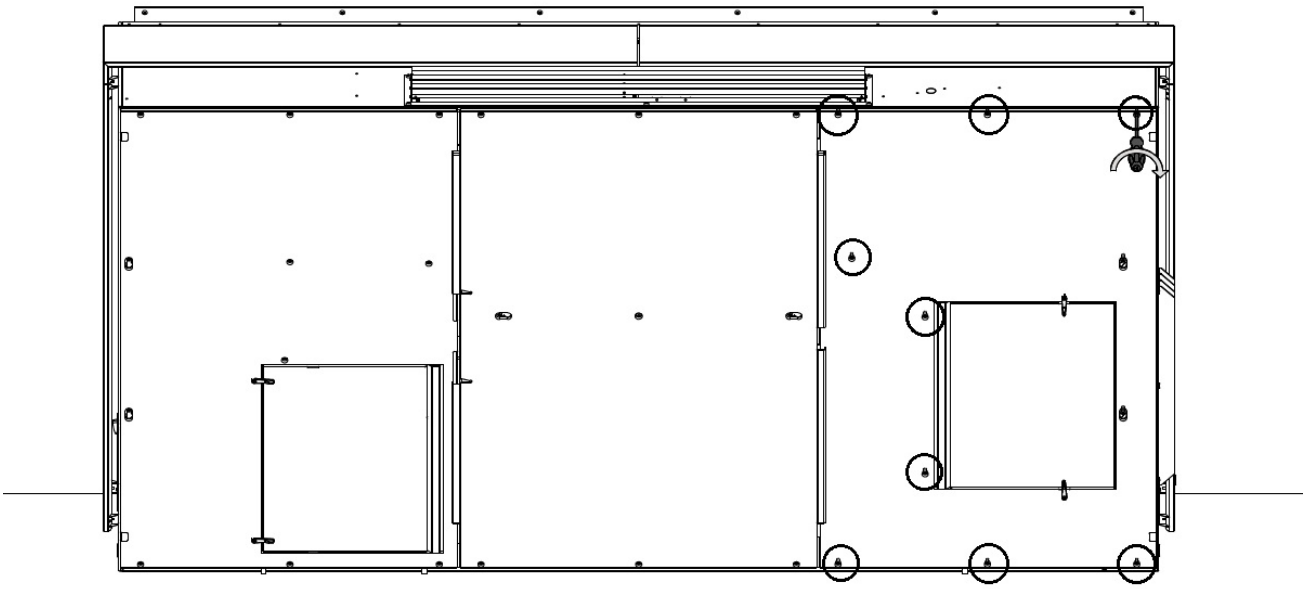


Figure 48: Attachment points for the right-hand steel plate

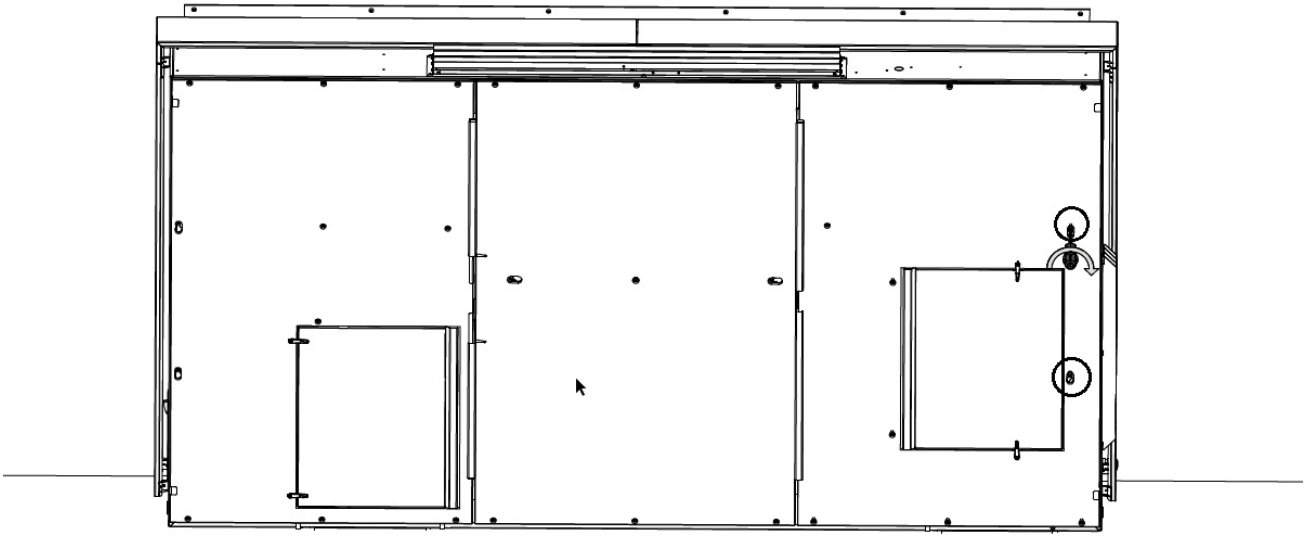


Figure 49: Tighten the bolts

The unit is now closed off. The next step is to mount the service covers.

7.13 Mount the service covers

Mounting the service covers is similar to mounting the bottom steel plates. You start by mounting the middle cover, then one on each side. The middle cover will support the side covers via hinges.

1. Lift the middle service cover onto the hinges, see Figure 51 below.

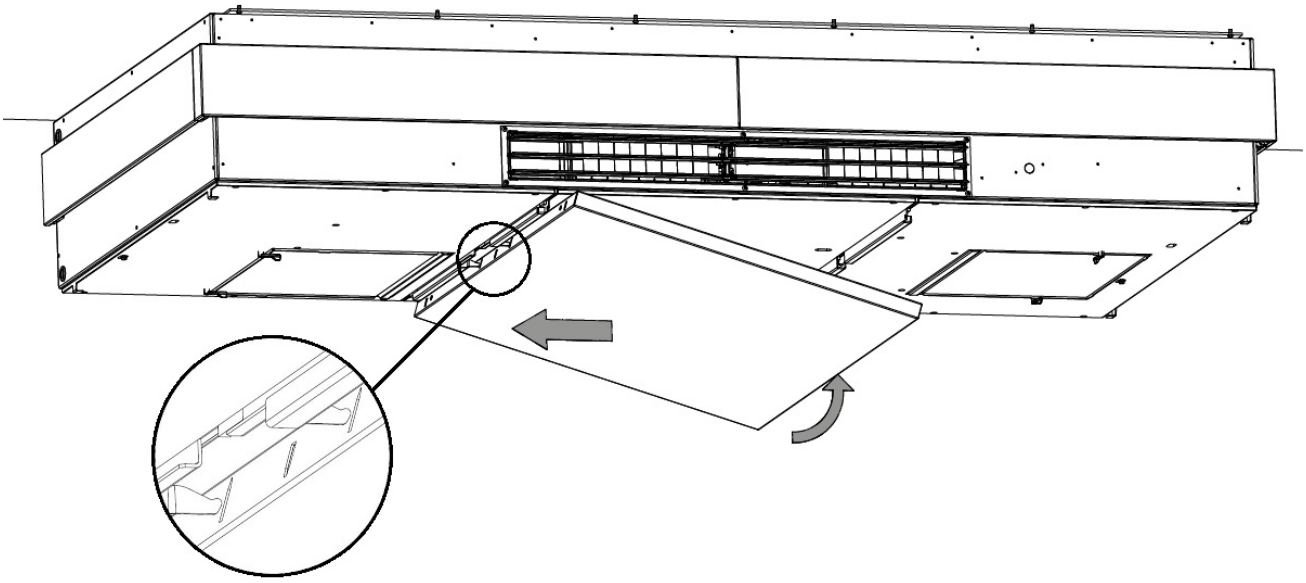


Figure 50: Lift the middle service cover up and onto the hinges

2. Mount the service cover using two short bolts on each side, see Figure 52 and Figure 53.

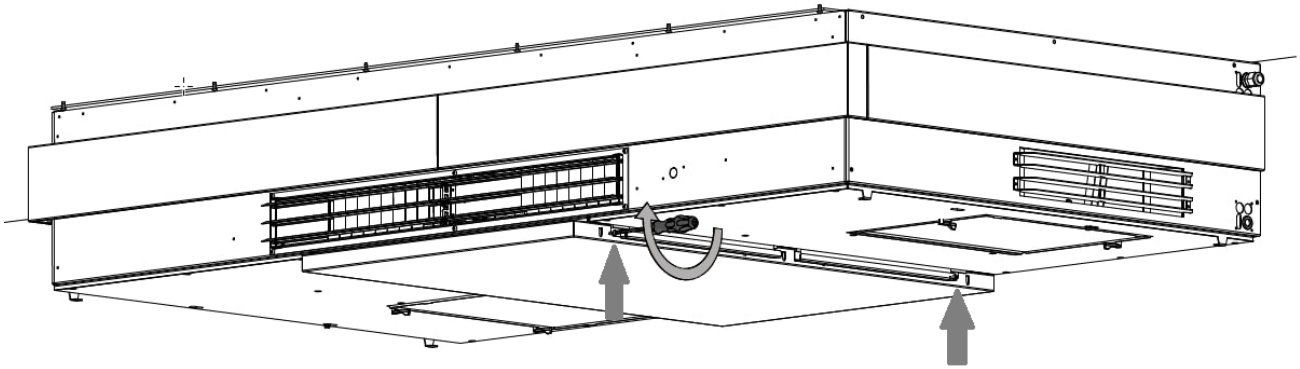


Figure 51: Mount the service cover on the right-hand side

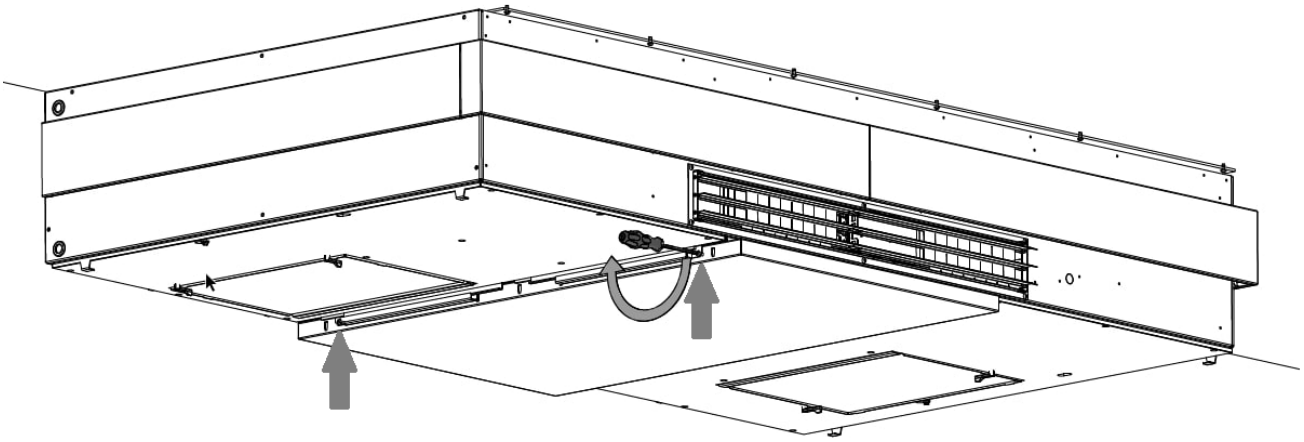


Figure 52: Mount the middle service cover on the left-hand side

3. Lift the left-hand service cover and hinge it onto the middle plate, see Figure 54 below.

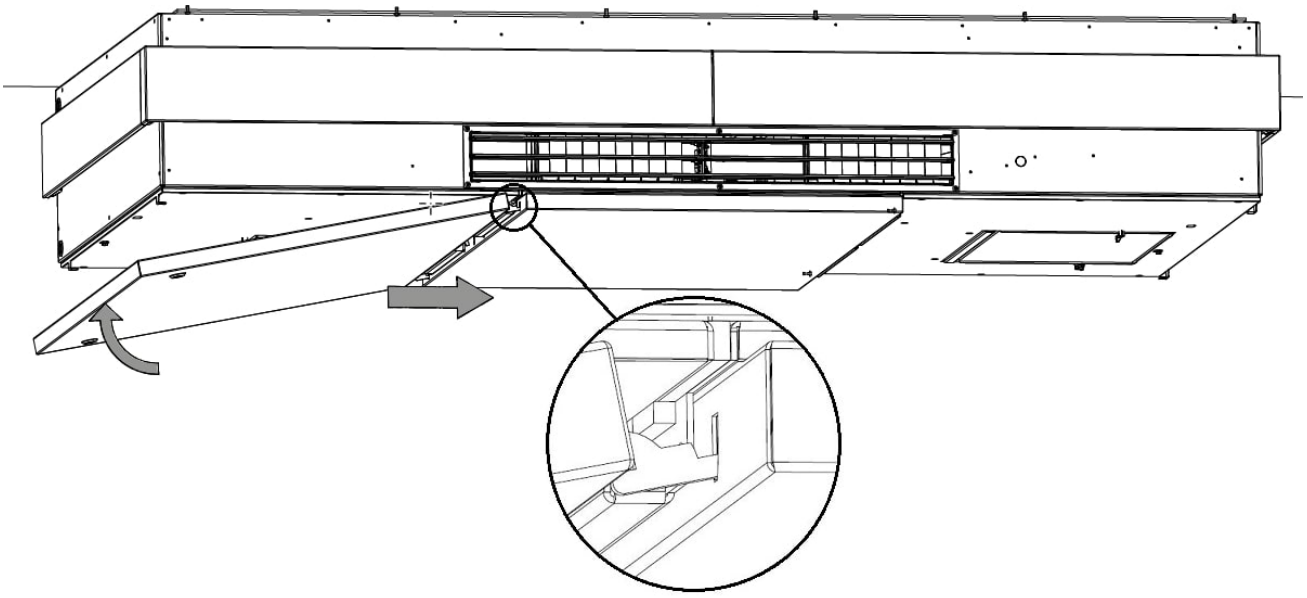


Figure 53: Hinge the left-hand service cover

4. Lock the service cover using the enclosed key, see Figure 55.

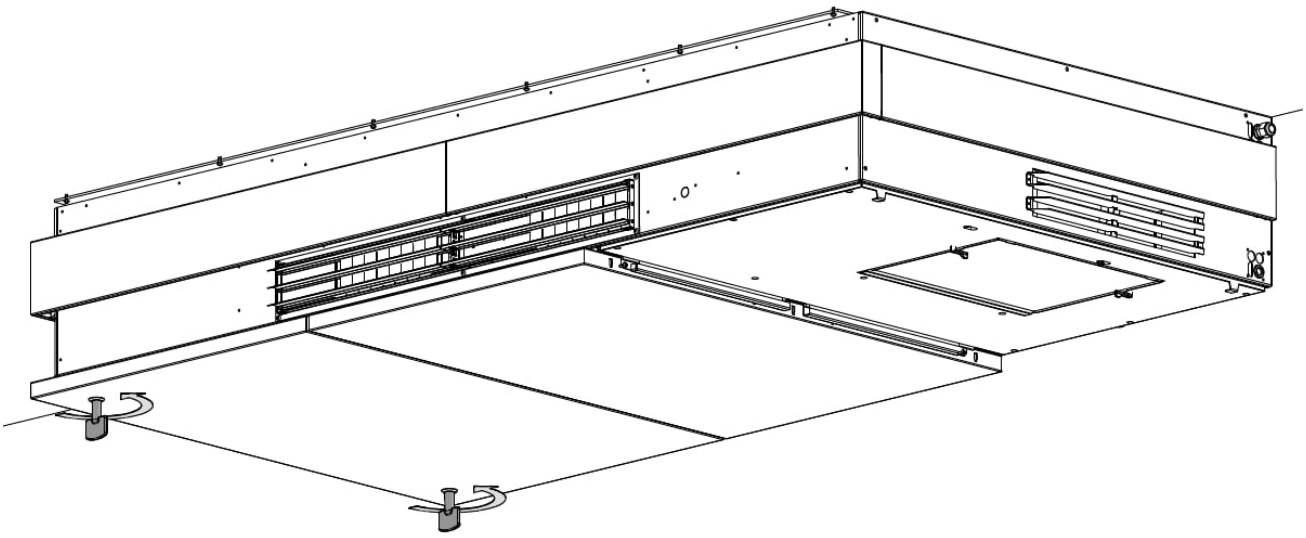


Figure 54: Lock the left-hand service cover

5. Lift the right-hand service cover and hinge it onto the middle plate, then lock it, see Figure 56 and Figure 57.

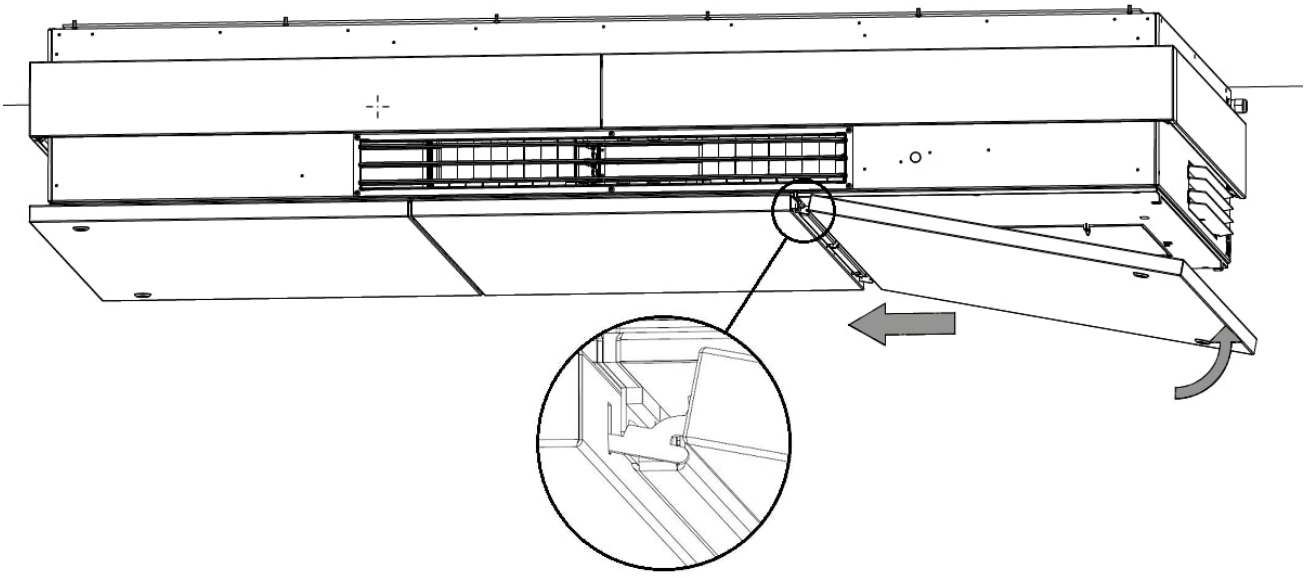


Figure 55: Hinge the right-hand service cover

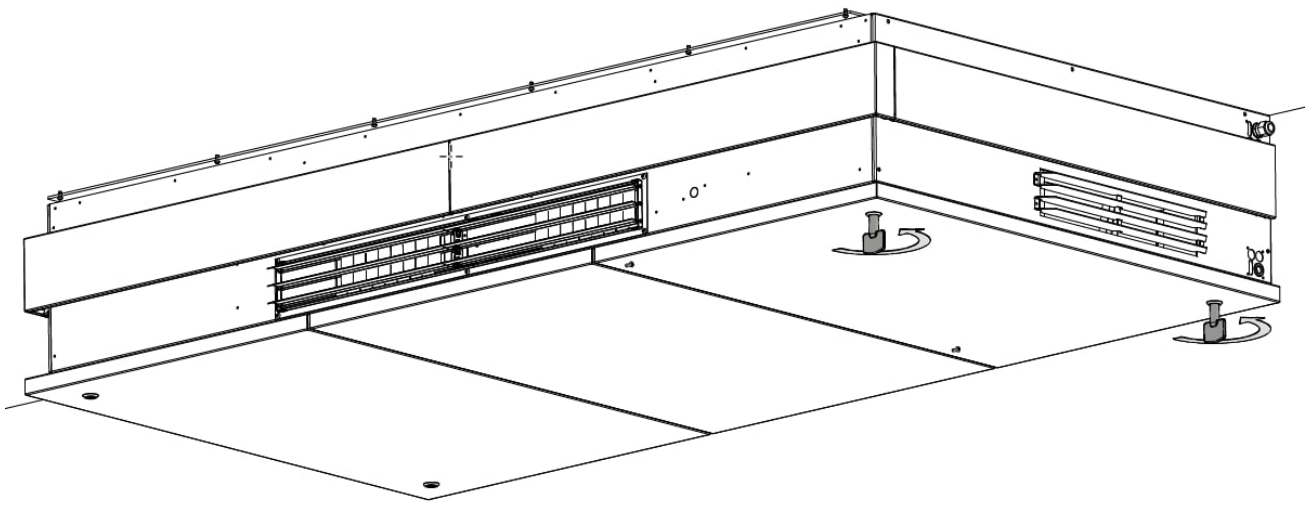


Figure 56: Lock the right-hand service cover

This completes the mounting process.

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Errors and omissions excepted. Subject to change without notice. Original user instruction.