




Mounting

AMX 4

AIRMASTER

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<i>Revision</i>	<i>Date</i>	<i>Description</i>
01	2023-12-20	First edition

	NOTICE
	<p>Read this manual thoroughly before mounting the AMX 4 unit.</p> <p>Keep it for later use. Manuals must be given to the owner of the unit for safekeeping.</p>

Fill out this form for future reference:

<i>Installation information</i>	
<i>Type</i>	AMX 4
<i>Delivery date</i>	
<i>Serial number</i>	
<i>Mounting location</i>	

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2 Introduction

This manual will give you instructions on how to mount 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 crushing of hands.
	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

	<div data-bbox="285 190 1449 241">CAUTION</div> <div data-bbox="285 241 1449 356">Wear safety footwear as personal protection equipment.</div>
	<div data-bbox="285 409 1449 461">NOTICE</div> <div data-bbox="285 461 1449 575">Failure to comply with the instructions can damage the device and/or its environment.</div>
	Information, tips, and recommendations.

2.3 Liability


The manufacturer cannot be held liable for damages that occur due to usage in violation of this manual's instructions.


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


The warranty is voided should this manual not be followed.


3 Safety instructions


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

	WARNING
	<p>R290 (Propane) in the appliance - Highly Flammable Substance.</p> <p>Extremely flammable gas. Forms explosive mixtures with air. Only slightly soluble in water. Gas is heavier than air.</p>


	WARNING
	<ul style="list-style-type: none">• 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 odour.• The unit shall be installed, operated and stored in a room with a floor area larger than 12,8 m².

	WARNING
	<ul style="list-style-type: none">• The unit must not be installed in explosion-protected rooms.• The unit must not be installed in rooms with flammable or corrosive gas 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
	<p>Wear safety shoes when mounting the unit.</p>

	NOTICE
	<p>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.</p>

3.1 Responsibility

	CAUTION
	<ul style="list-style-type: none">• 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

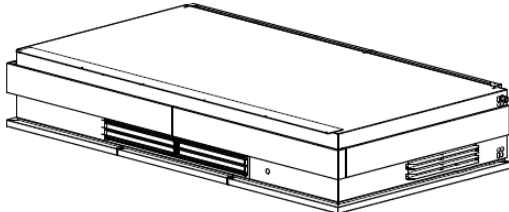
Product name	AMX 4
Unit item number	9500004001
Type	Decentral air handling unit. Stand-alone unit.
	

Figure 1: AMX 4 unit

Table 1: Product name and type

4.2 Specifications

Weight, complete unit	235 kg
Weight, casing	175 kg
Weight, service cover	55 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
Web site: www.airmaster.dk


5 Transportation and storage


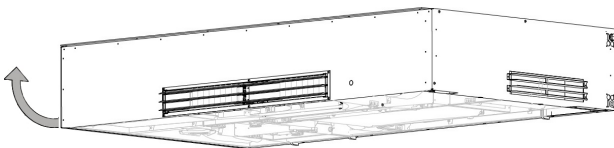
The AMX 4 is packed on a pallet, each pallet can hold up to two units.

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.

	WARNING
	<ul style="list-style-type: none">• 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 m².

	NOTICE
	The unit must be <u>transported and stored horizontally</u> .

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


	NOTICE
	<p>The unit can be tilted to 80-90 degrees less than 60 seconds, e.g. when passing through a door.</p> <p>When tilting the unit, the front side must be upward, see below:</p>  <p>Ensure you support the back side of the unit with e.g. blocks of wood or similar to avoid damaging the fittings on the back side.</p>


Gross weight (2 units and pallet)	Approx. 530 kg
Net weight (each unit)	235 kg
Pallet dimensions (l*w)	2150*1200 mm


Table 3: Weight and dimensions


6 Important information before you mount the unit


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


	WARNING
	<ul style="list-style-type: none">• 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. <p>If the unit falls down, there is a high risk of serious personal injury and damage to the unit.</p>

	WARNING
	<ul style="list-style-type: none">• The unit shall be installed in a room with a floor area larger than 12,8 m².

	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 fitting of the frame may be out of true. This may lead to leaks and an increased noise level during the operation of the unit.

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

	We recommend that duct holes are 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 most important distances that you need to consider before installation.

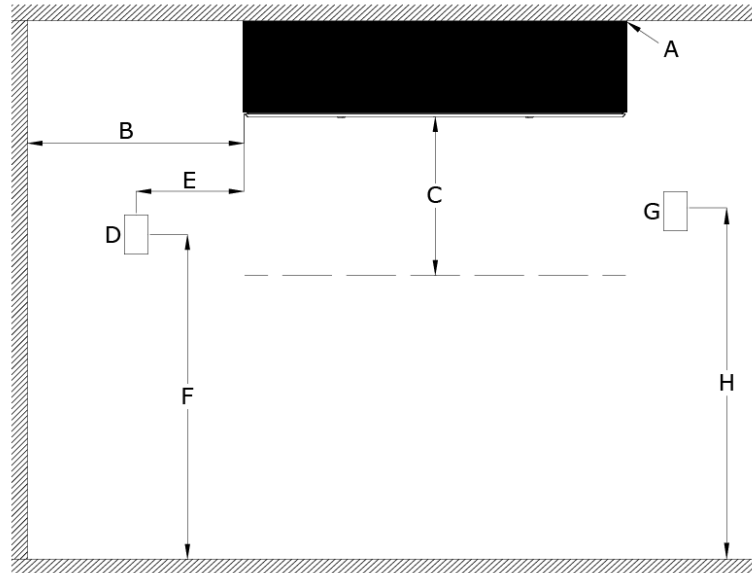


Figure 2: Minimum distance to building parts

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

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

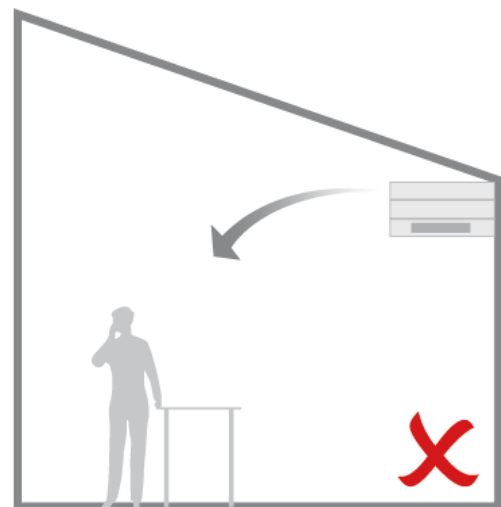
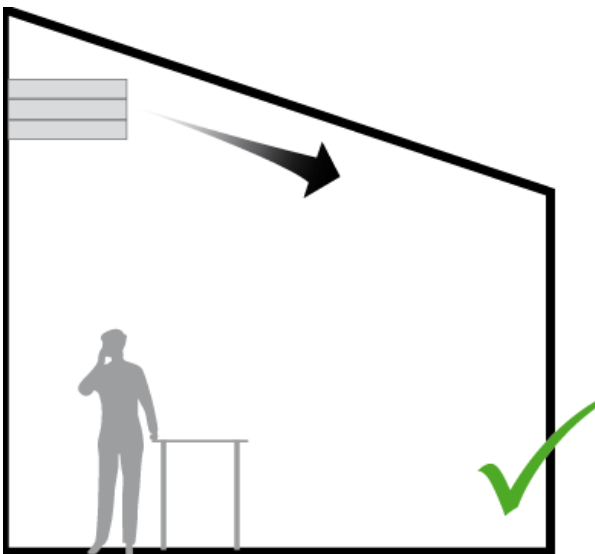
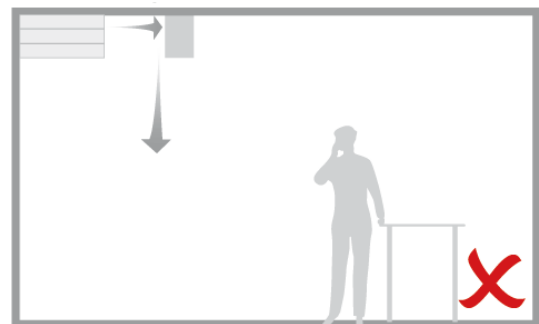
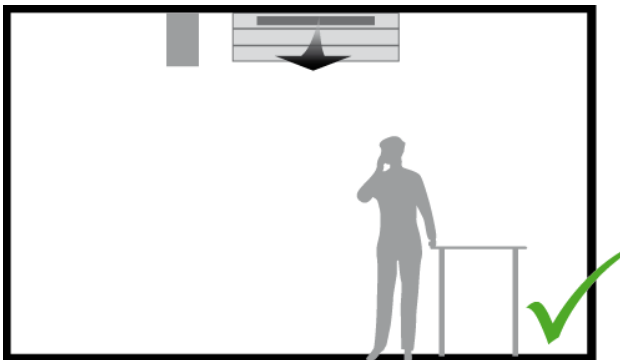
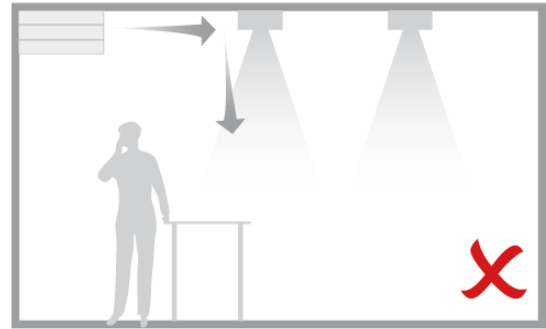
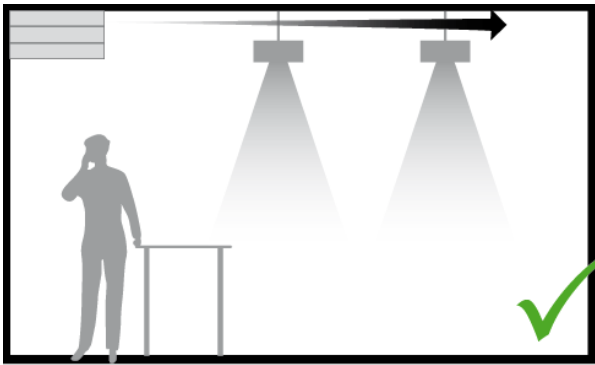


Figure 3: Correct installation vs. incorrect installation

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 12)
- 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
- Steel plates
- Panels
- Service covers
- Bolts and service cover key
- Duct pipes, grilles, vapor barrier
- CO₂ sensor, PIR/motion sensor
- Manuals: Mounting manual, Installation manual, Operation & Maintenance manual.

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 if any parts look damaged before starting the installation.

	CAUTION
	Do not start the installation if one or more parts on the delivery note are damaged or missing.

7 The mounting process

Below is an overview of the mounting process, each step is described in the following subsections.

The process describes the steps you need to do when mounting a fully visible unit. In case the unit must be built into the ceiling, the sections on panel brackets and panels are left out.

1. [Disassemble the side covers](#)
2. [Disassemble the rear bracket](#)
3. [Mark drill holes for the brackets and ducts](#)
4. [Drill holes](#)
5. [Mount the bracket](#)
6. [Mount the unit](#)
7. [Mount duct pipes and grilles + sealing](#)
8. [Connect drain](#)
9. [Remove the transportation safeguard](#)
10. [Reassemble the side covers](#)
11. [Mount panel brackets](#)
12. [Mount panels](#)
13. [Mount steel plates](#)
14. [Mount 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. To do so, you must first disassemble the side covers.

Once this is done, you proceed to mark and drill holes for the brackets as well as the duct holes 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 duct pipes and grilles, and the drain.

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

The side covers are then reassembled, the panels mounted, and finally, the steel plate and the service covers are mounted. This completes the mounting process.

Appendix A on page 48 provides a dimensional drawing of the AMX 4 unit.

7.1 Disassemble the side covers

1. Disassemble the left-hand side cover, see Figure 4. Carefully place the cover on a protective underlay to prevent scratches to the surface.

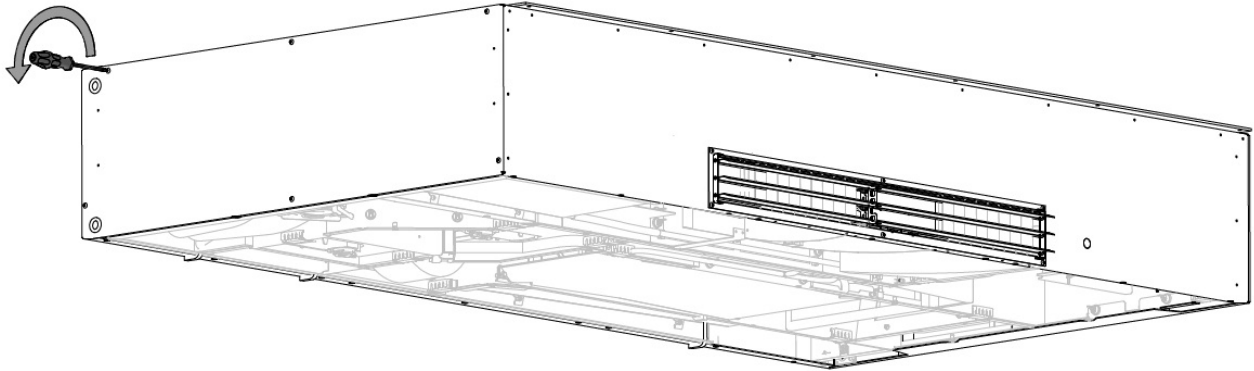


Figure 4: Disassemble the side cover, left-hand side

2. Disassemble the right-hand side cover, see Figure 5. Carefully place the cover on a protective underlay to prevent scratches to the surface.

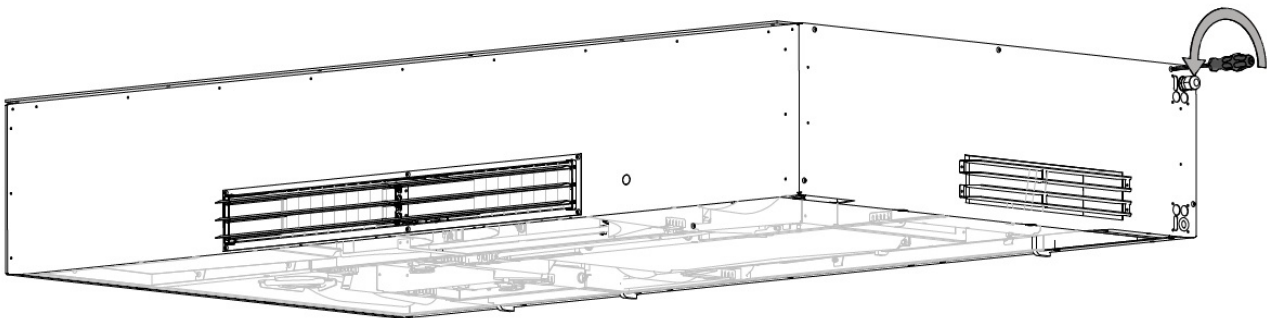


Figure 5: Disassemble the side cover, right-hand side

Keep the bolts, you need them when reassembling the side covers.

7.2 Disassemble the rear bracket

1. Disassemble the rear bracket, see Figure 6 and Figure 7.

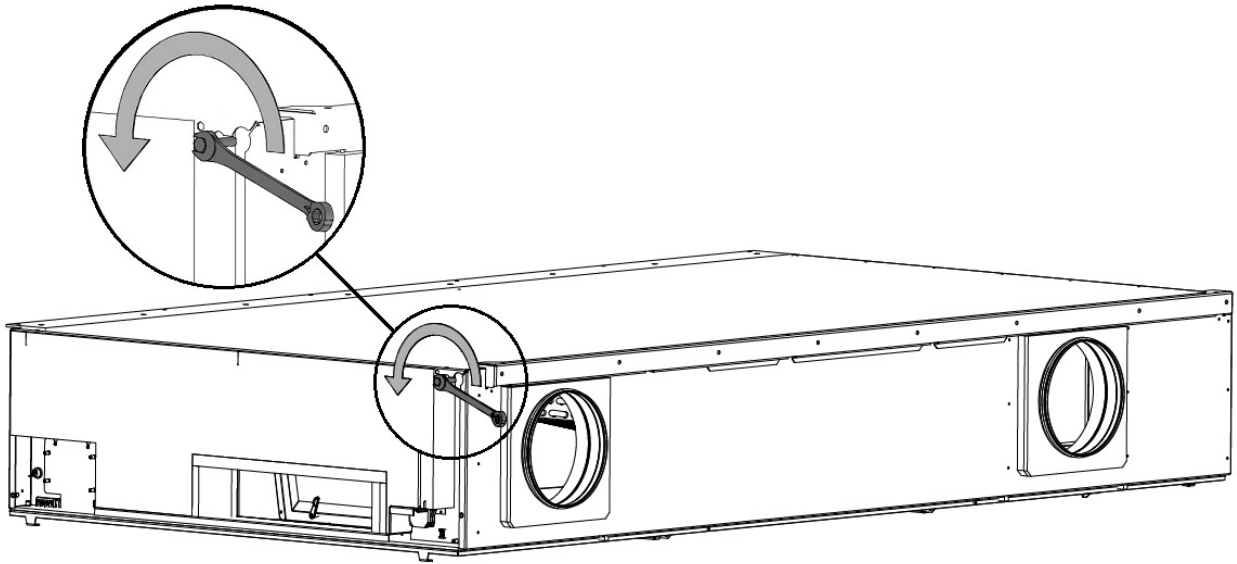


Figure 6: Disassemble the rear bracket, left-hand side seen from behind

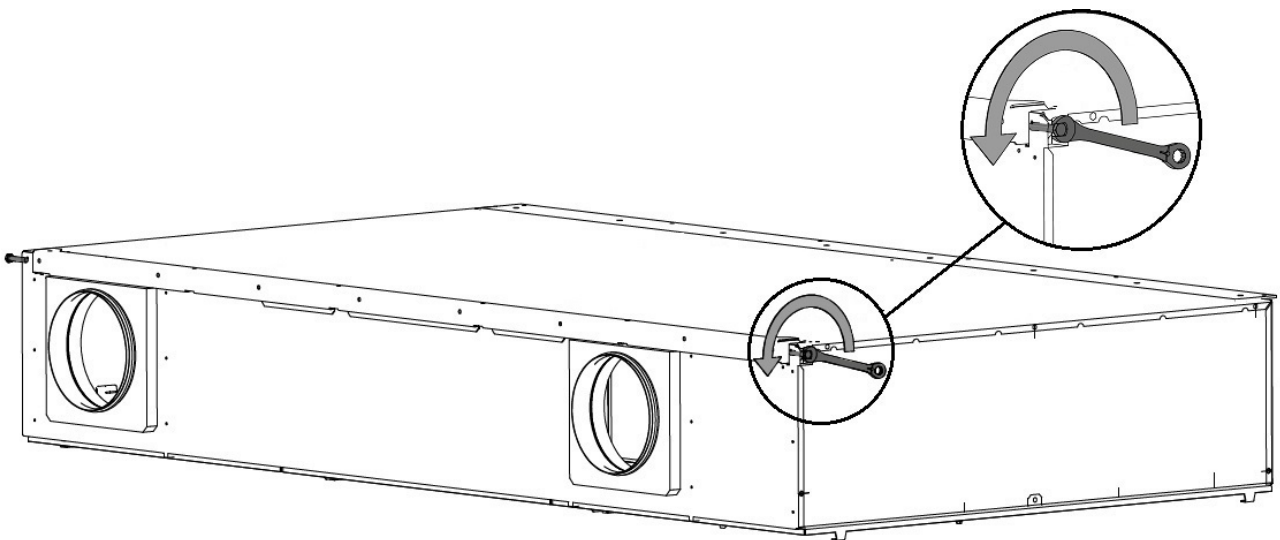


Figure 7: Disassemble the rear bracket, right-hand side seen from behind

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

7.3 Mark drill holes

7.3.1 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).

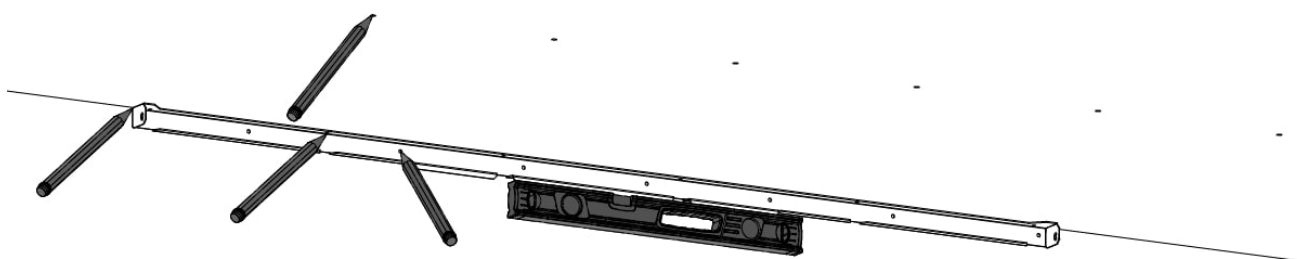


Figure 8: Mark drill holes for the rear and front brackets

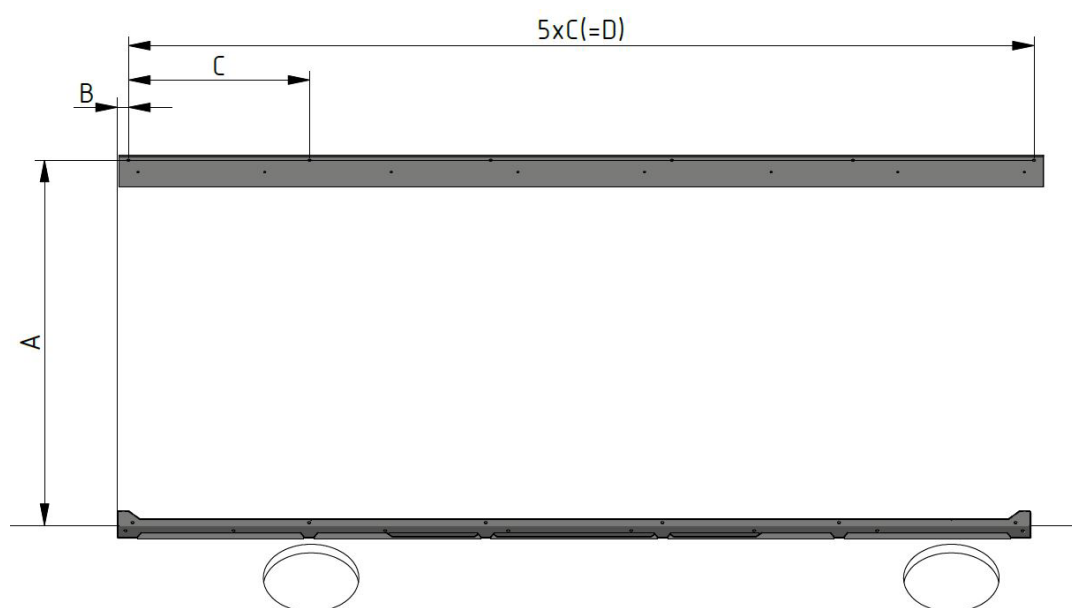


Figure 9: Distances from rear bracket to front bracket

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

Table 5: Bracket distances

7.3.2 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.

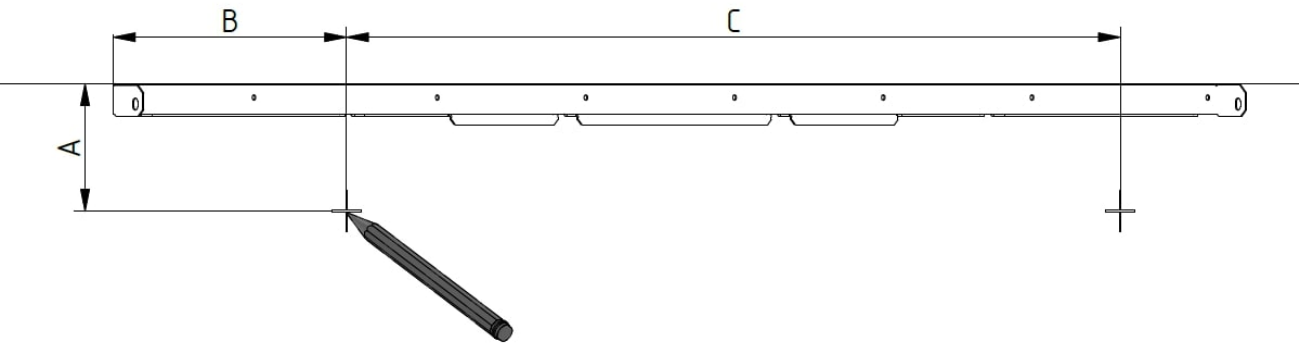


Figure 10: Mark drill holes for the ducts

A	B	C
155 mm	167 mm	1340 mm

Table 6: Duct distances

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

7.4 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 12.

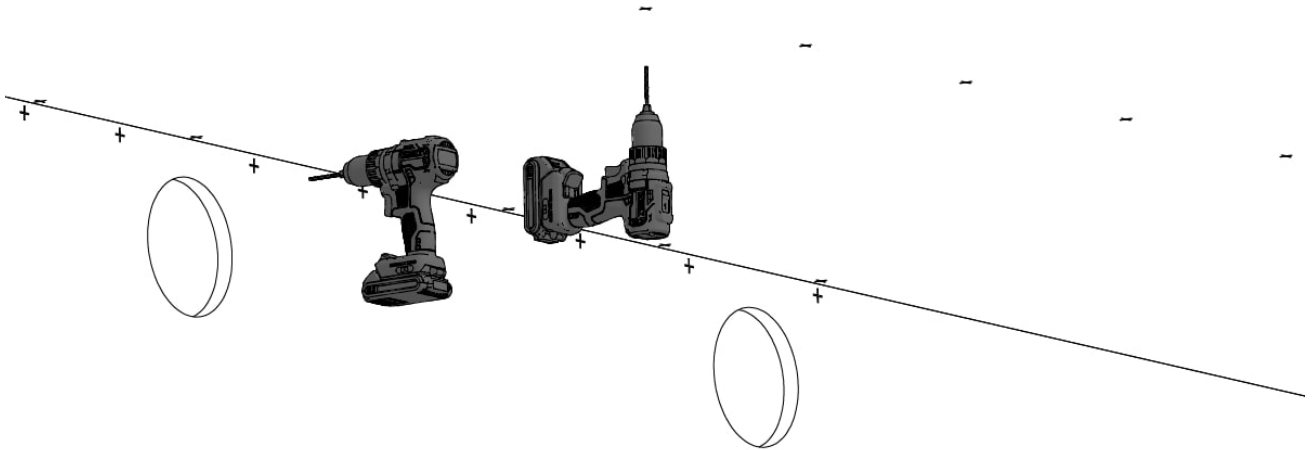


Figure 11: Drill holes

7.5 Mount the bracket

1. Mount the bracket using *all* the attachment points, both on the wall and on the ceiling.

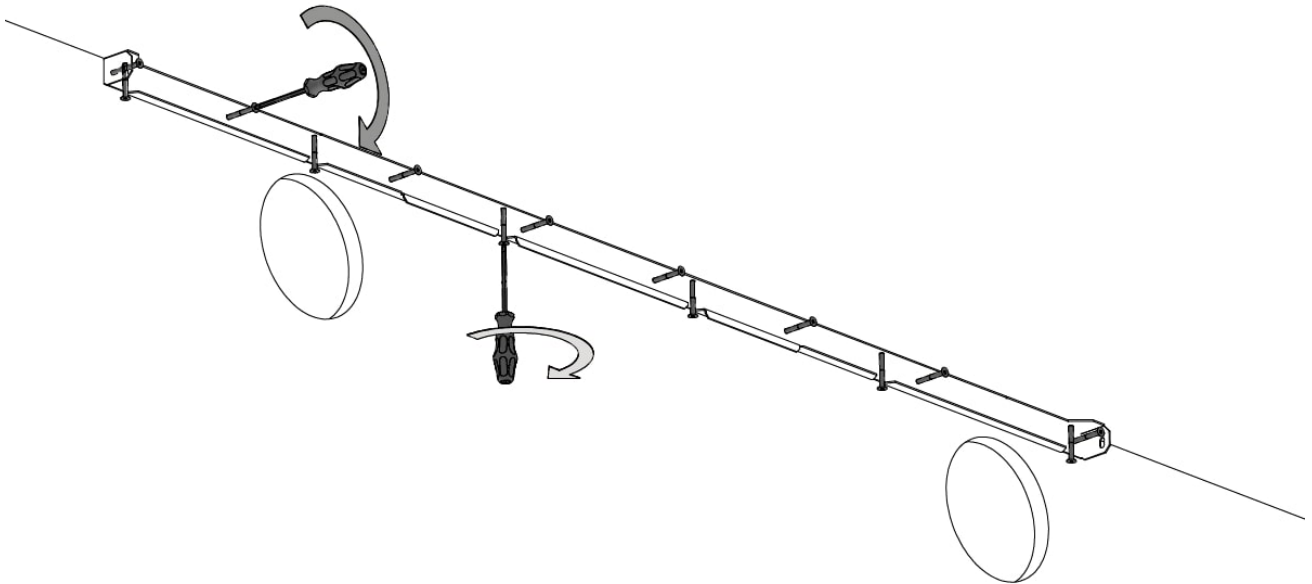


Figure 12: Mount the bracket

7.6 Mount the unit

Use appropriate lifting equipment to lift the AMX 4 unit, refer to section 6.2, Tools and accessories, on page 15.

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.

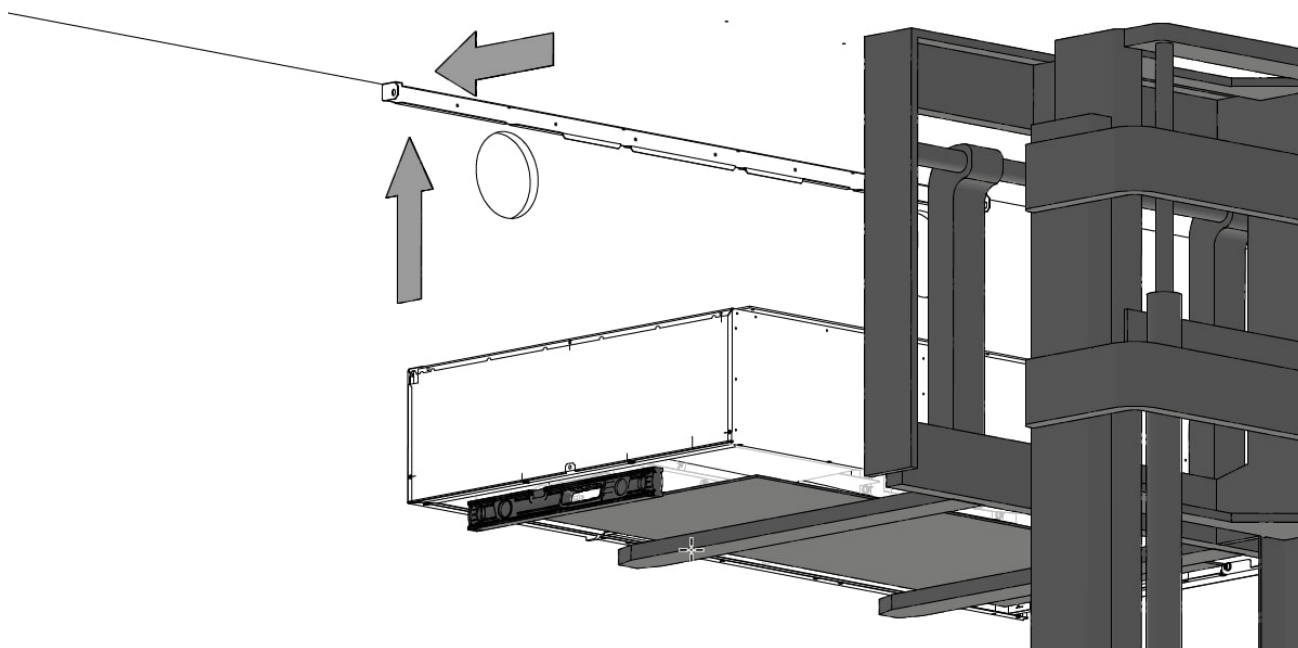


Figure 13: Lift the AMX 4 unit up and onto the bracket



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.

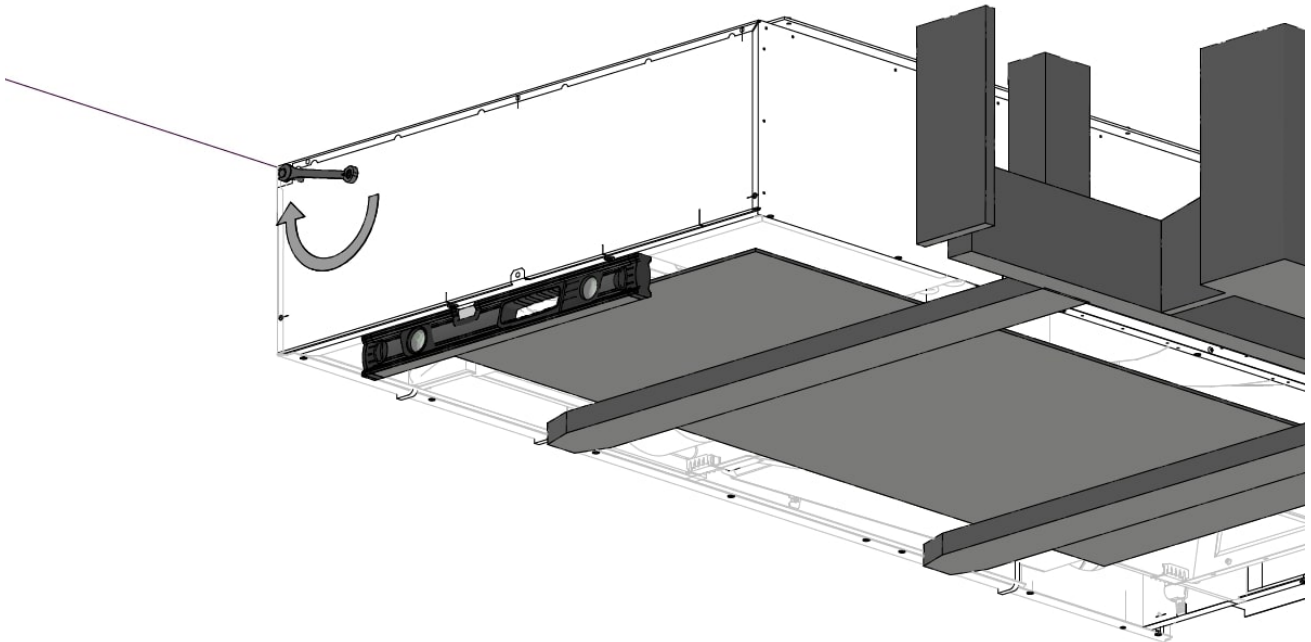


Figure 14: Attach the unit to the bracket, left-hand side

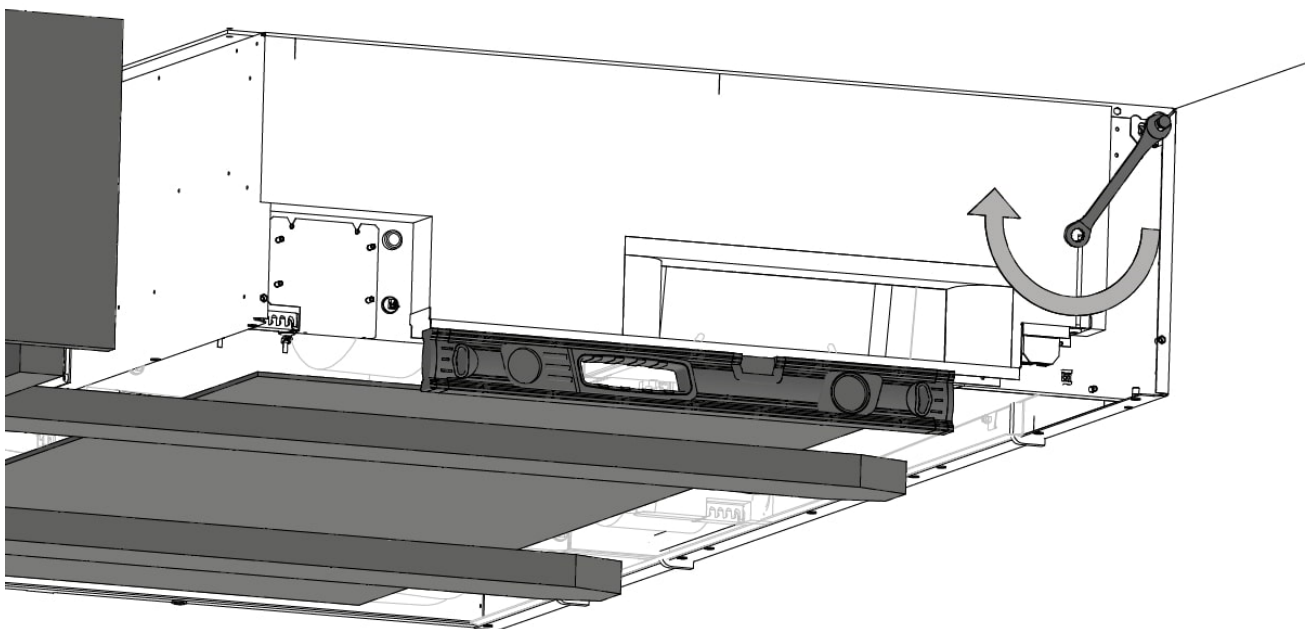


Figure 15: Attach the unit to the bracket, right-hand side

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

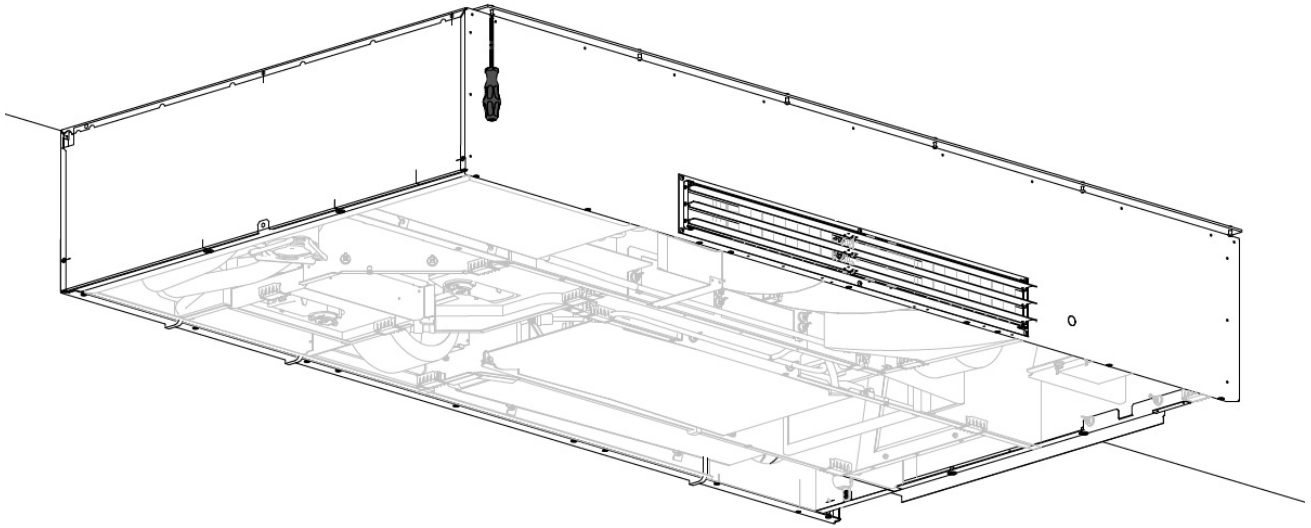


Figure 16: Mount the front bracket to the ceiling

7.7 Mount 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.

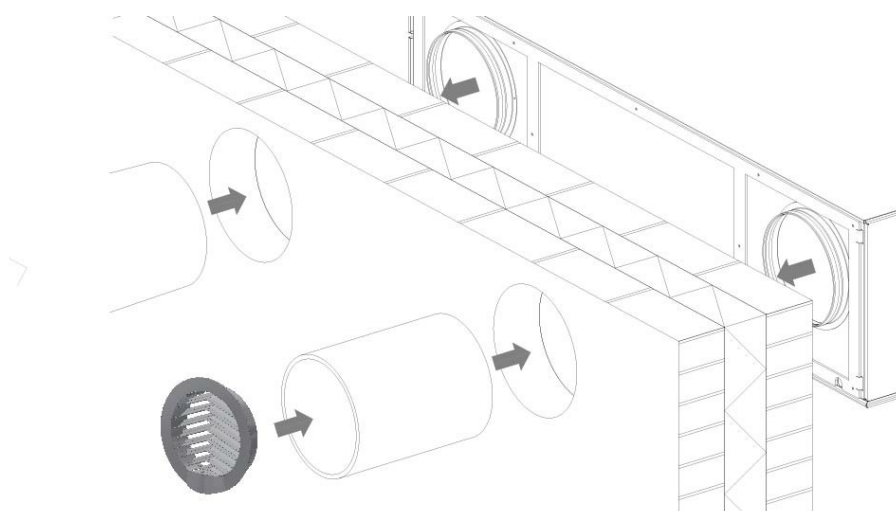



Figure 17: Duct pipes and grilles - general overview

NOTICE	
	<ul style="list-style-type: none">• 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/supply air spigot on the unit as this will increase the noise level.
- Exhaust air ducts and supply air ducts must be insulated against condensation if they are within the building envelope.
- Exhaust air ducts and supply 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.

7.7.1 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 grey box on the right-hand side marked with the number '1'.

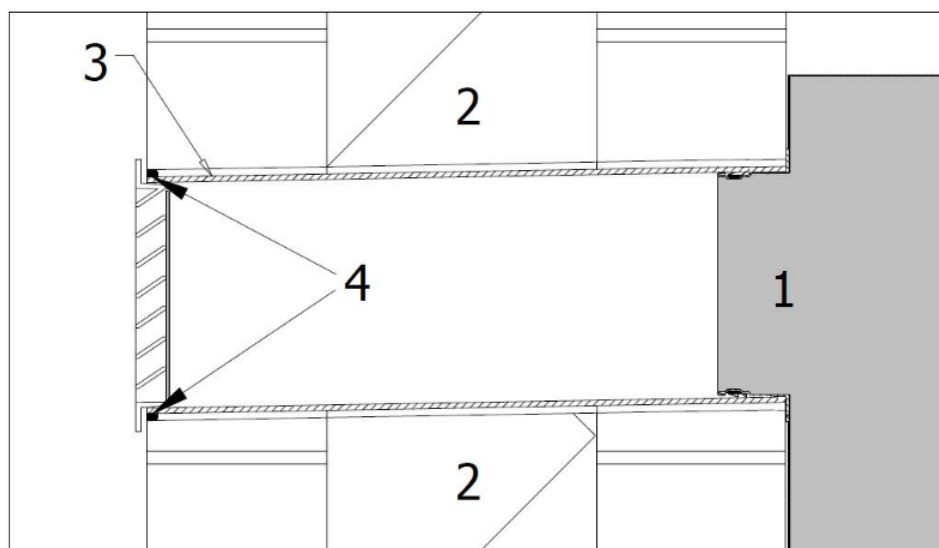


Figure 18: Sealing the gaps around ducts, sectional drawing

- | | |
|---|-------------------------------|
| 1 | Unit |
| 2 | Wall |
| 3 | Duct and duct pipe |
| 4 | Sealing points on the outside |

Table 7: Sealing points

- Apply sealant to the ducts outside edges, see '4' 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.

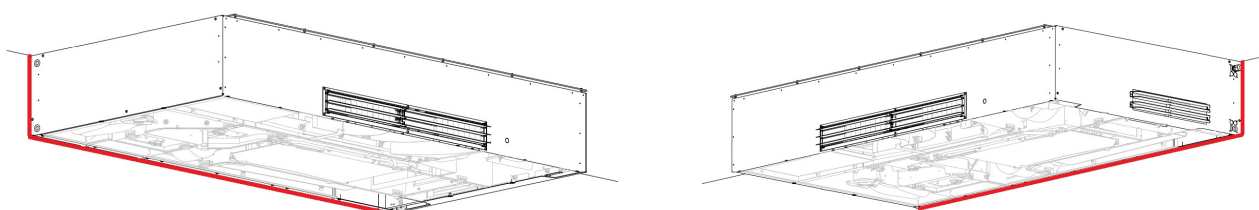


Figure 19: Sealing around the unit

7.8 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 length of the hose varies depending on the customer's order.

Drainage can be done in various ways; one is to connect the drain hose to a waste-water 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.

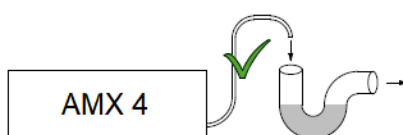


Figure 20: Water trap to avoid odors

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

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.

7.9 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.

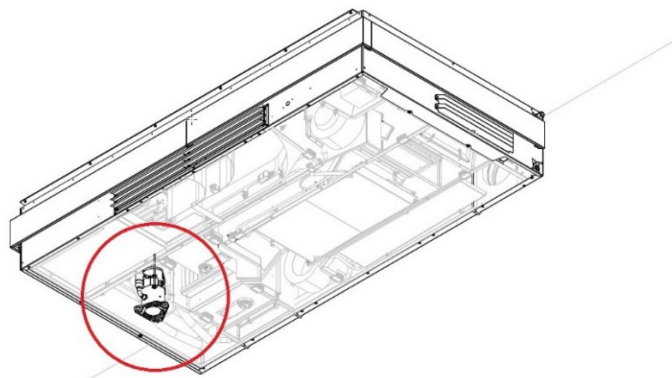


Figure 21: Compressor

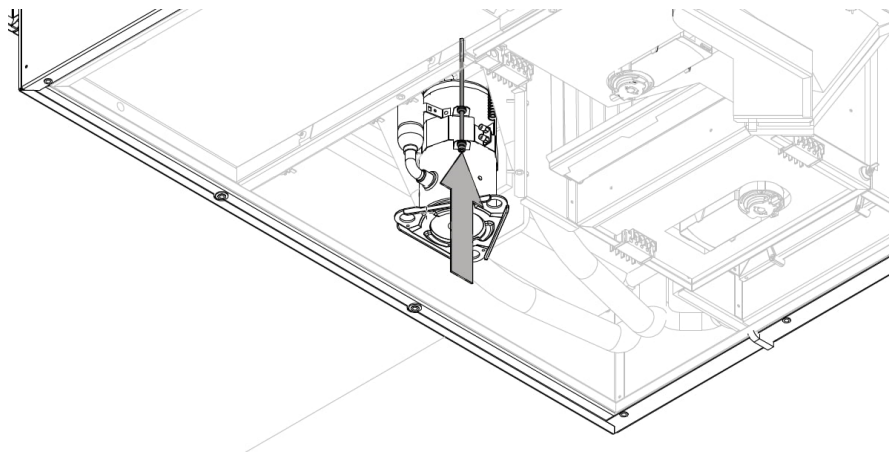


Figure 22: Transportation lock



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.

7.10 Reassemble the side covers

Reassemble the side covers using the bolts from earlier on, see Figure 23 and Figure 24.

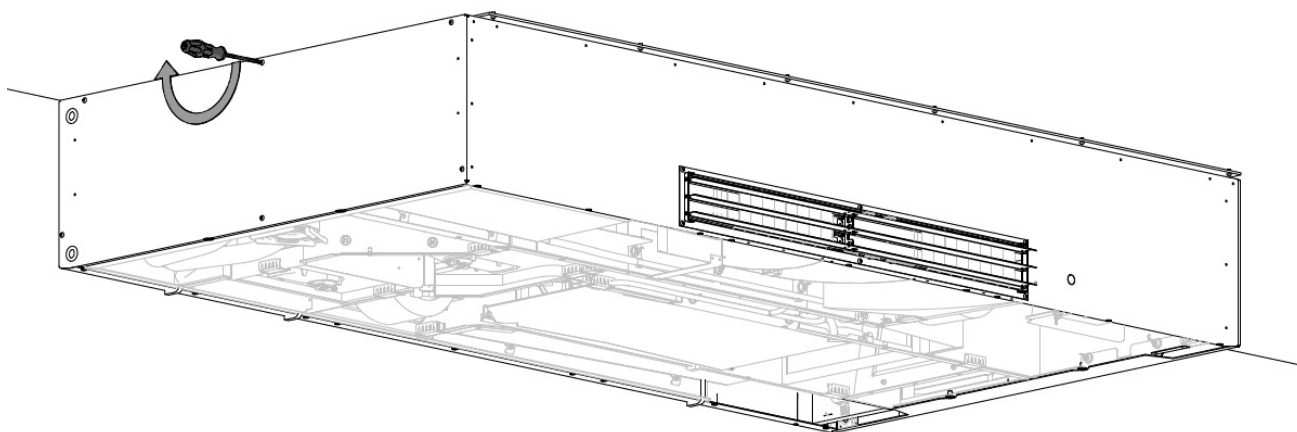


Figure 23: Reassemble the side cover – left-hand side

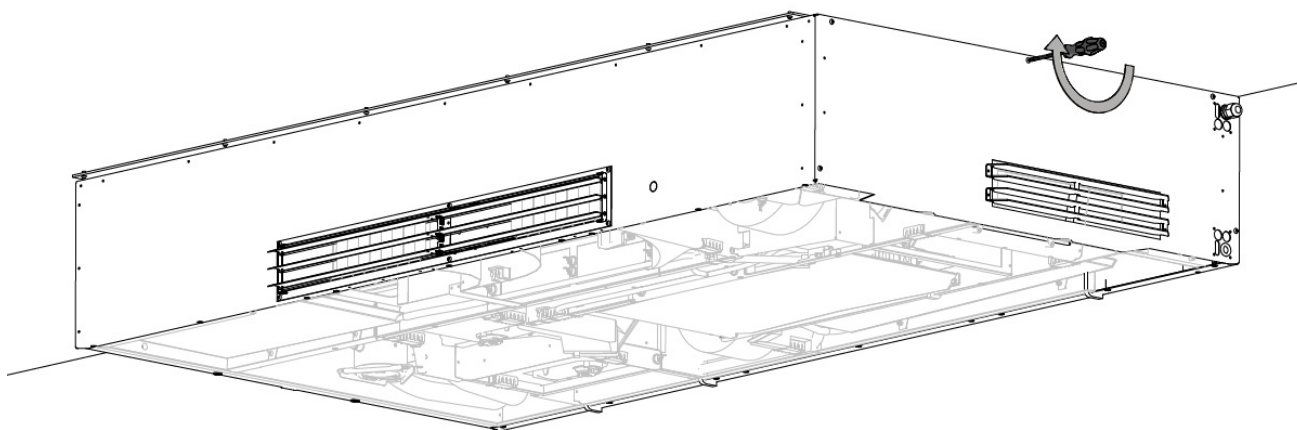


Figure 24: Reassemble the side cover – right-hand side

7.11 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.

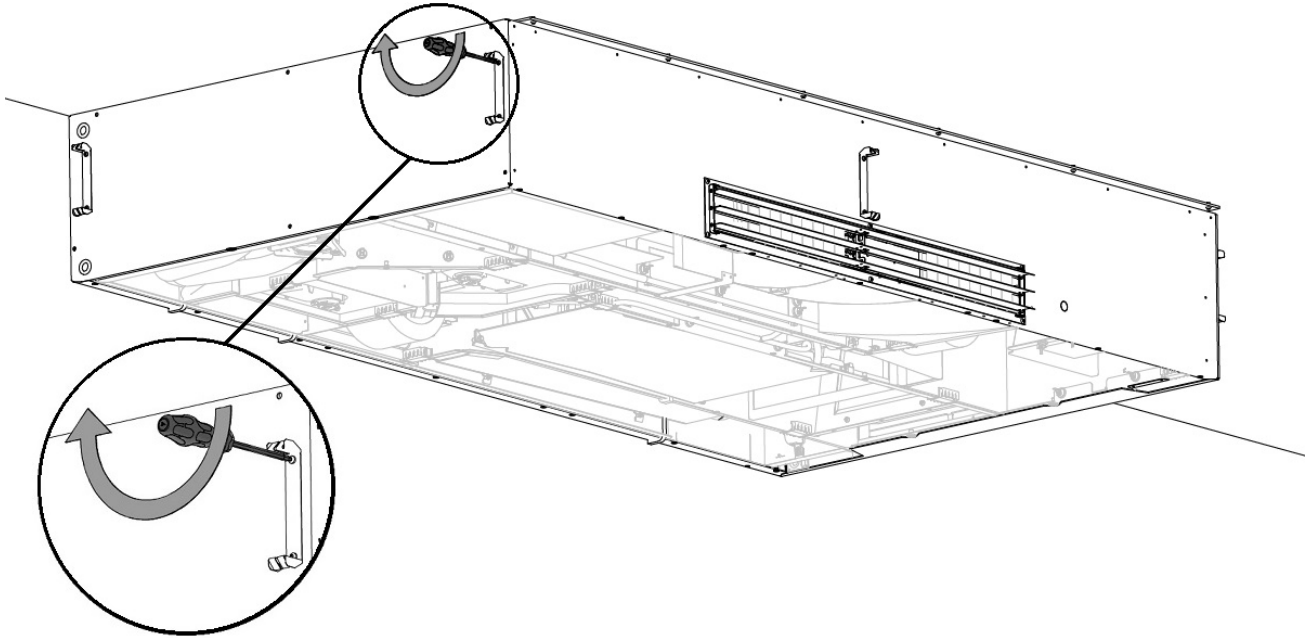


Figure 25: Mount the panel brackets - 1

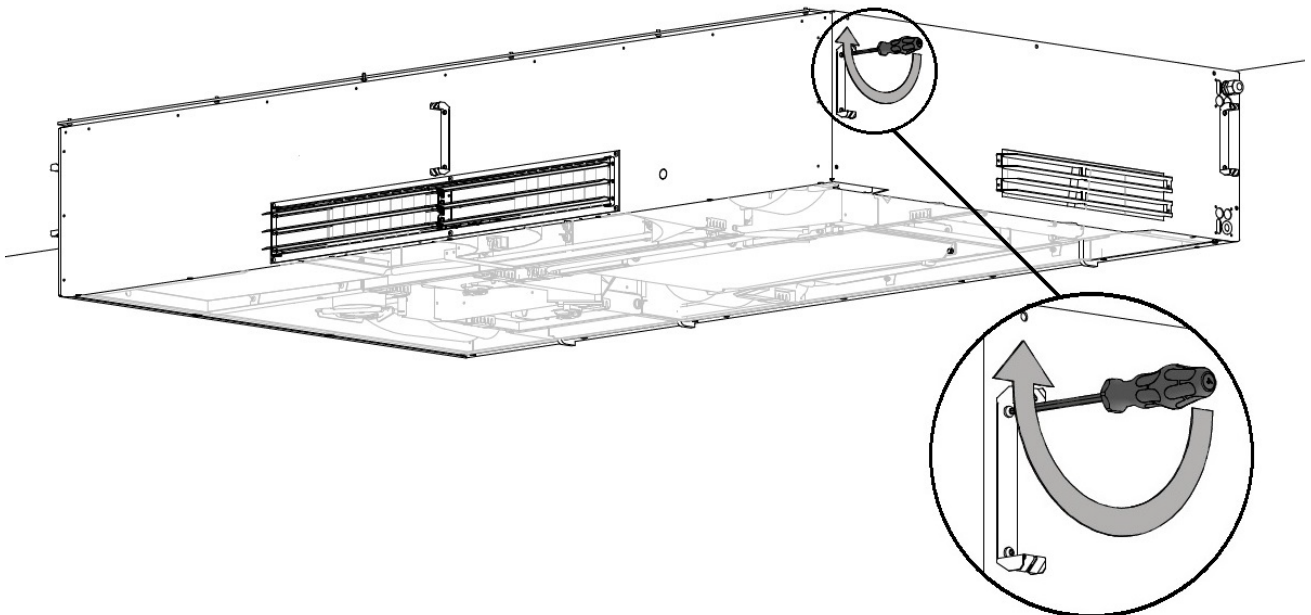


Figure 26: Mount the panel brackets - 2

7.12 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.

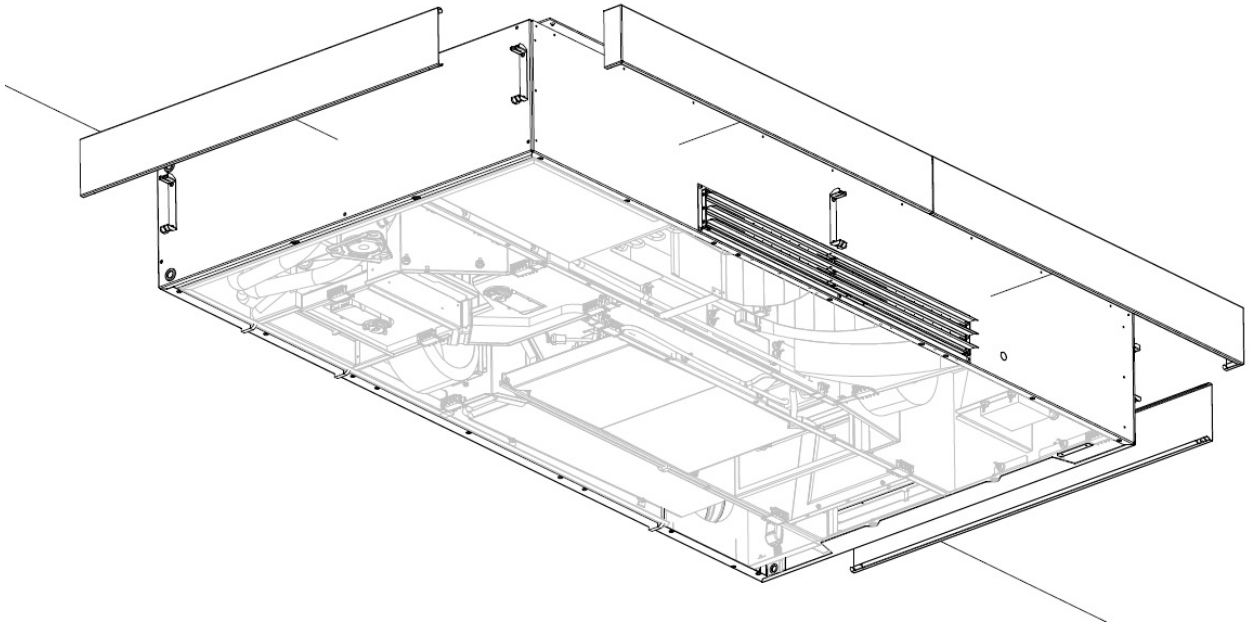


Figure 27: Click the panels onto the brackets

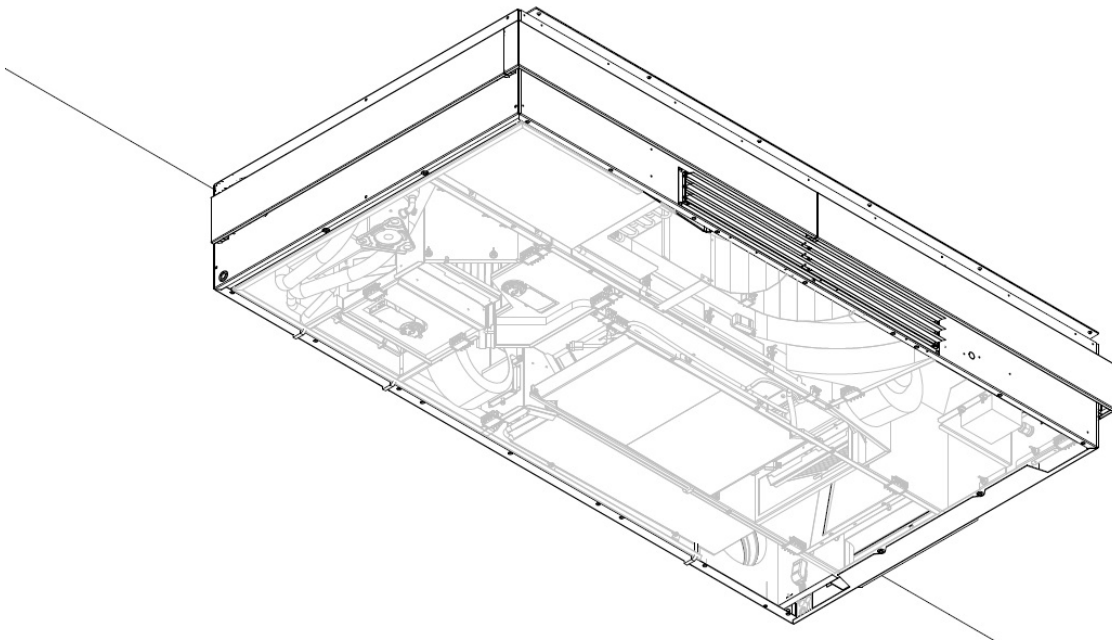


Figure 28: Panels fully mounted

7.13 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 and then proceed to mount the plates on each side. Please note that the steel plate in the middle may be premounted. 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 for the keyhole on the steel plate to function correctly.

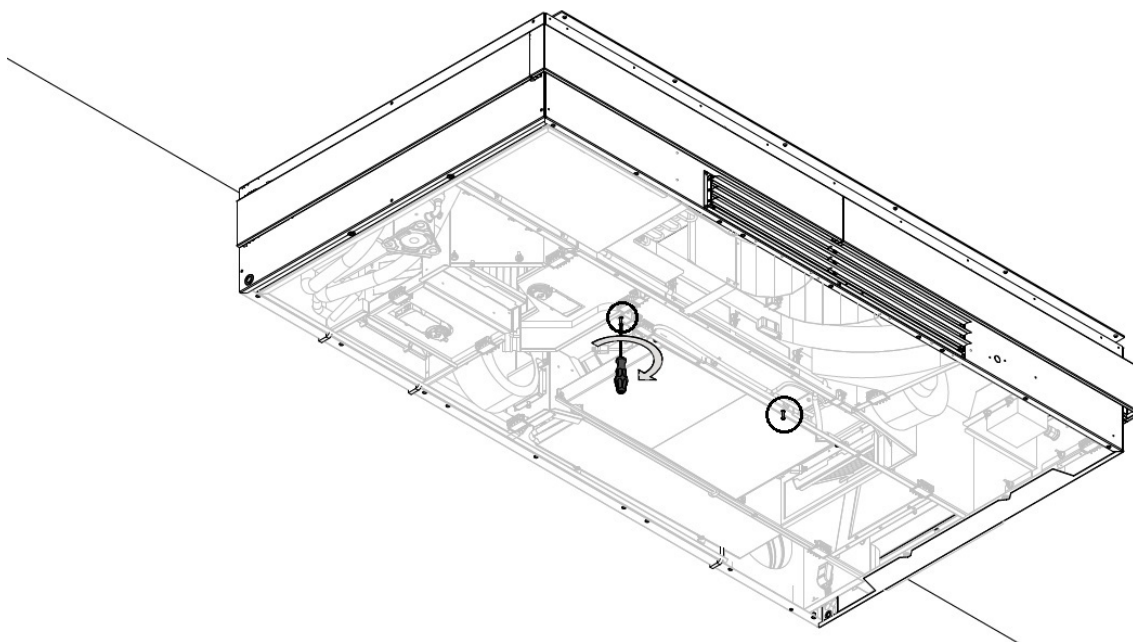


Figure 29: Screw two long bolts onto the middle frame

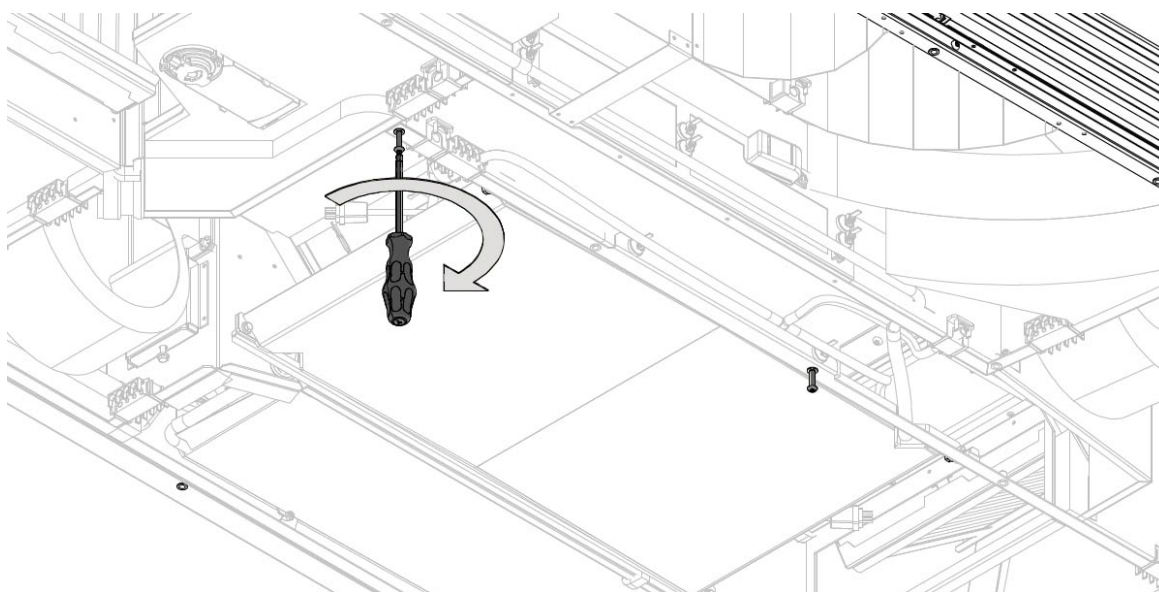


Figure 30: Detailed view of the middle frame with bolts mounted

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.

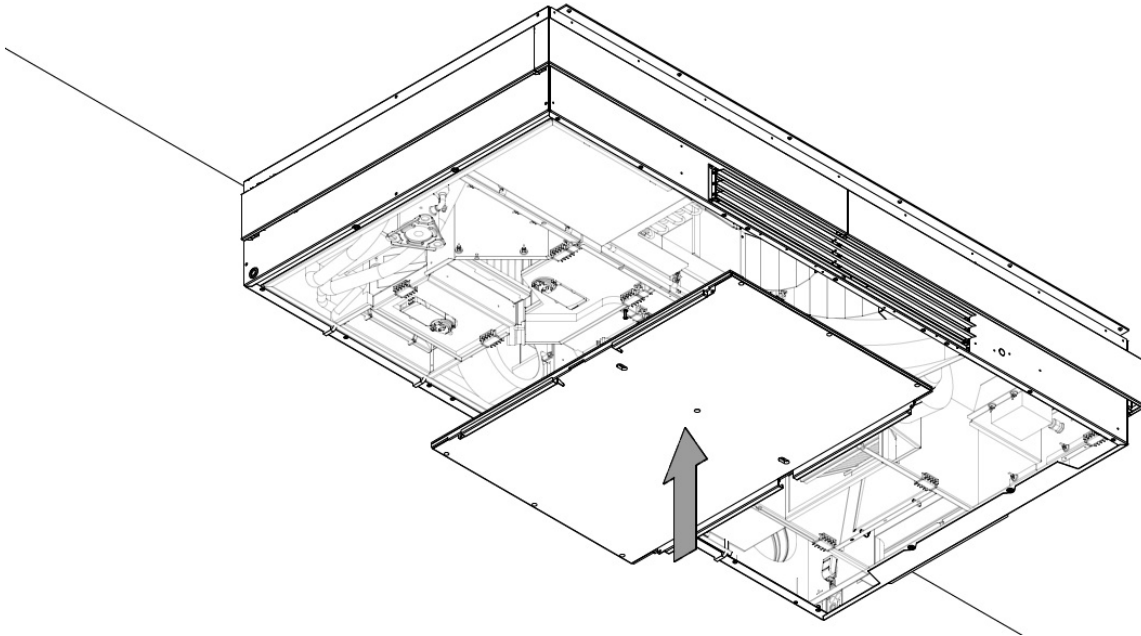


Figure 31: Lift the middle steel plate

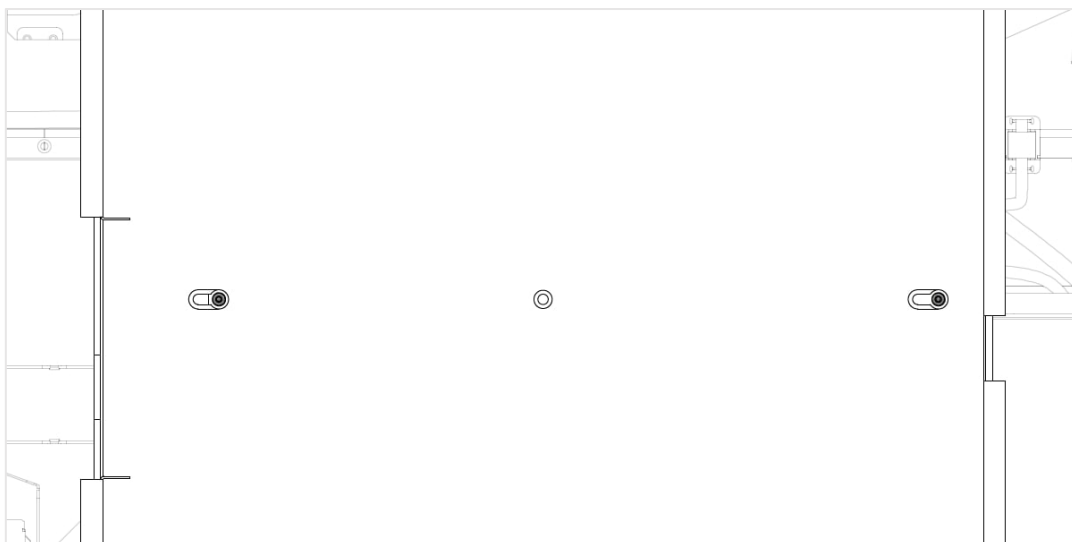


Figure 32: The bolt head must go through the round part of the keyhole

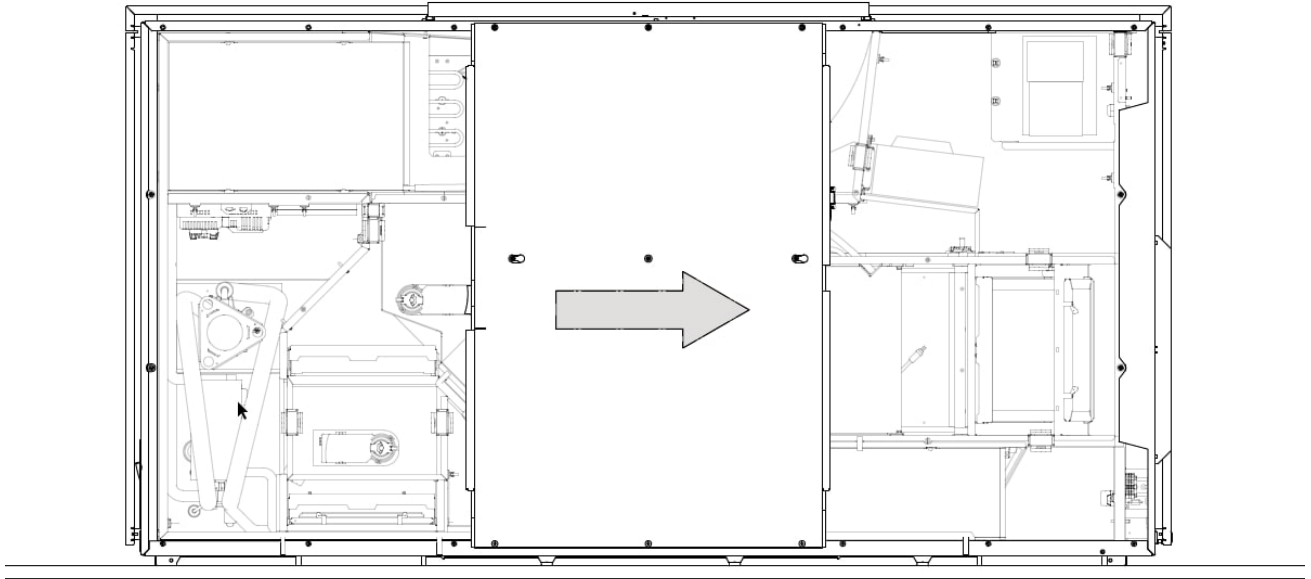


Figure 33: Push the steel plate right-wise

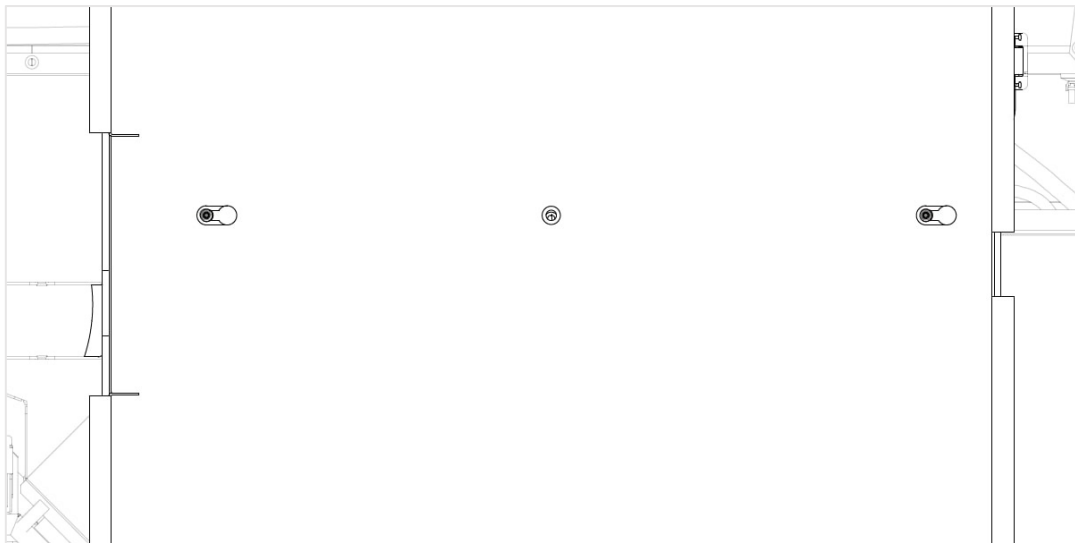


Figure 34: Steel plate locked into the narrow part of the keyhole

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

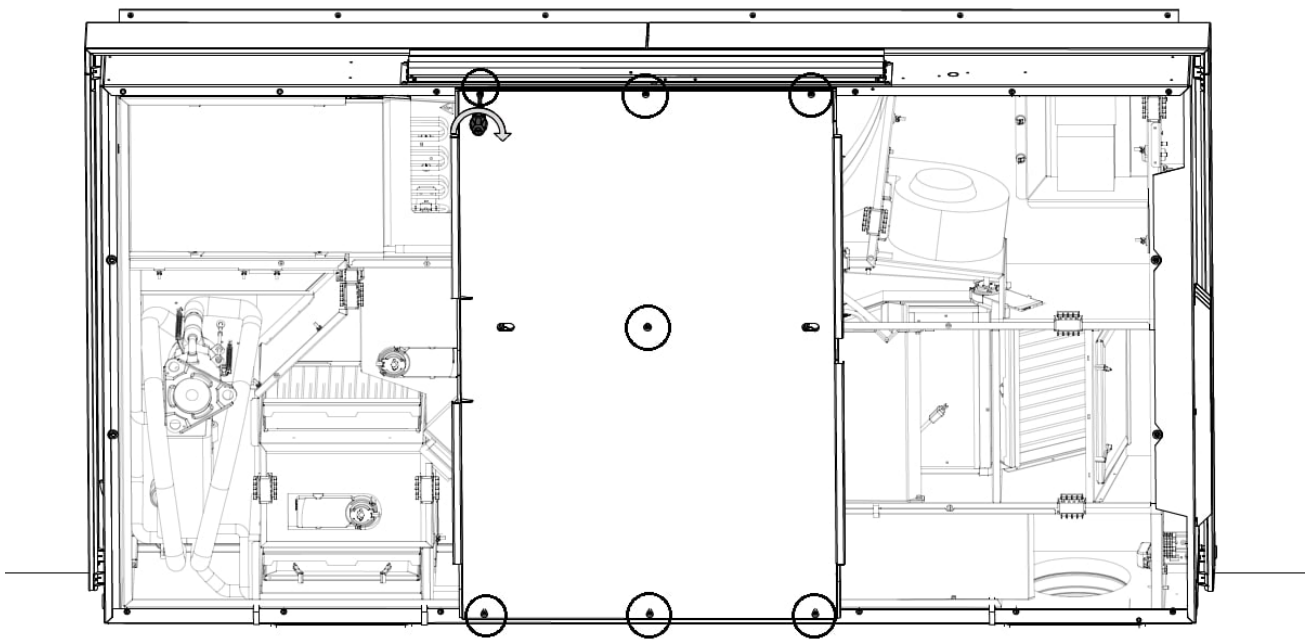


Figure 35: Attachment points for the middle steel plate

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

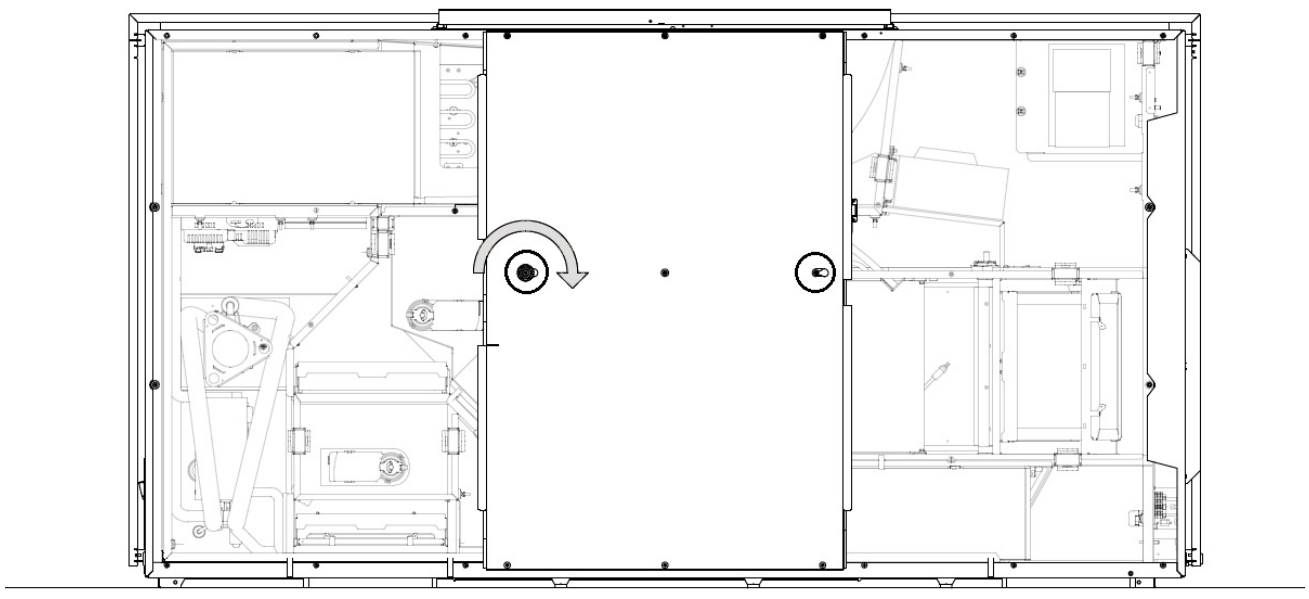


Figure 36: Tighten the bolts

The next step is to mount the plates on both sides, hereby closing 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.

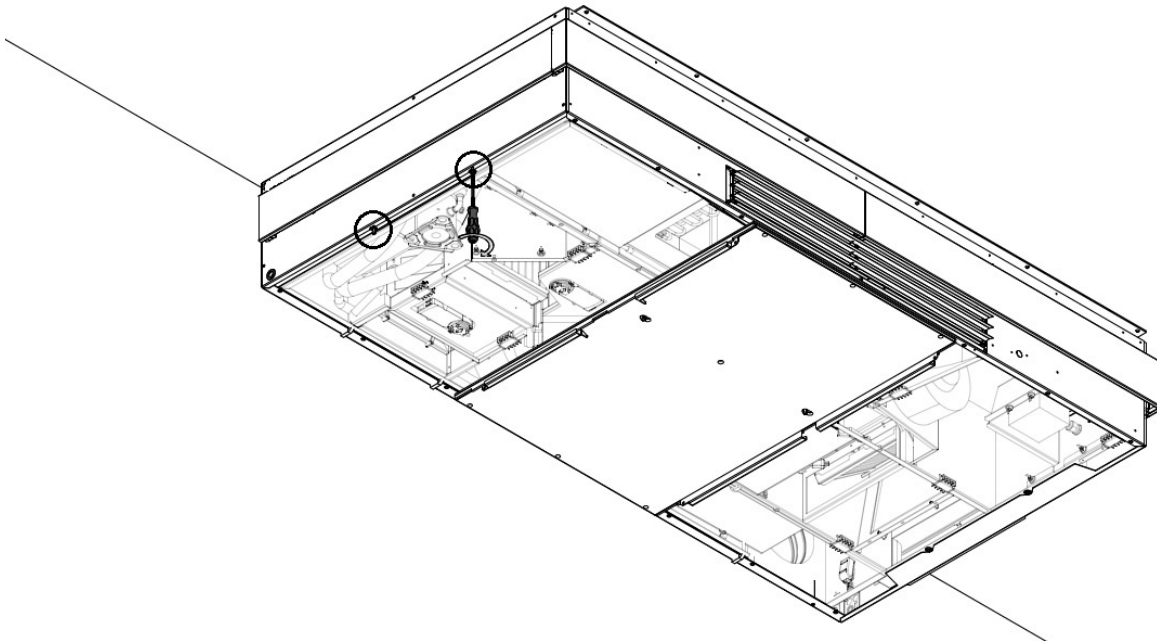


Figure 37: Screw two long bolts onto the left-hand side frame

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.

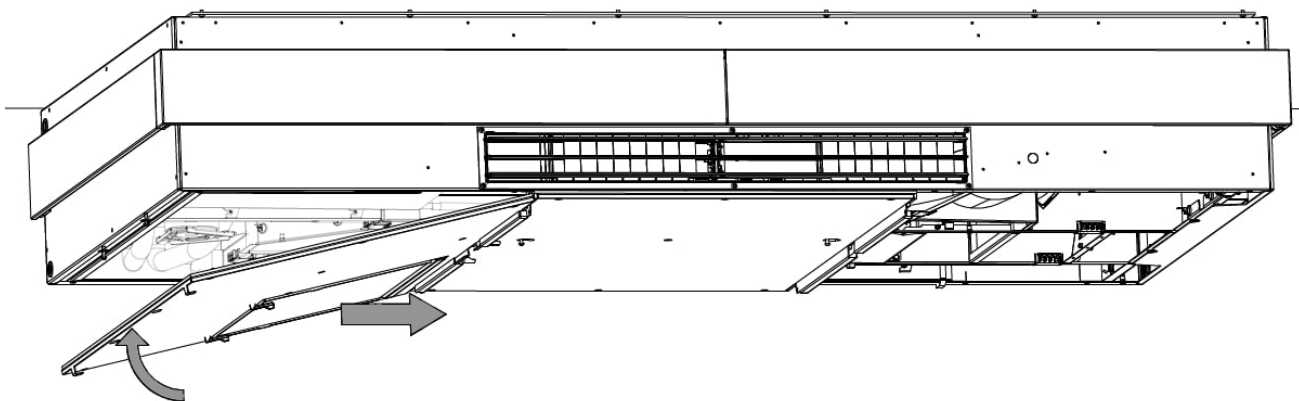


Figure 38: Lift the left-hand side plate onto the hinges

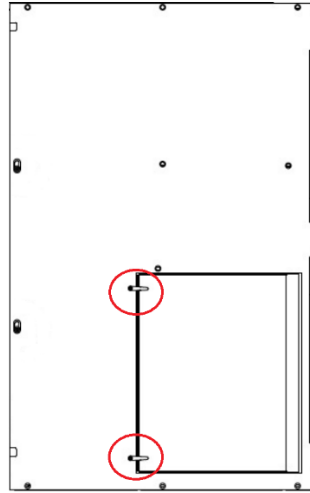


Figure 39: Filter-hatch hinges must be closed

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.

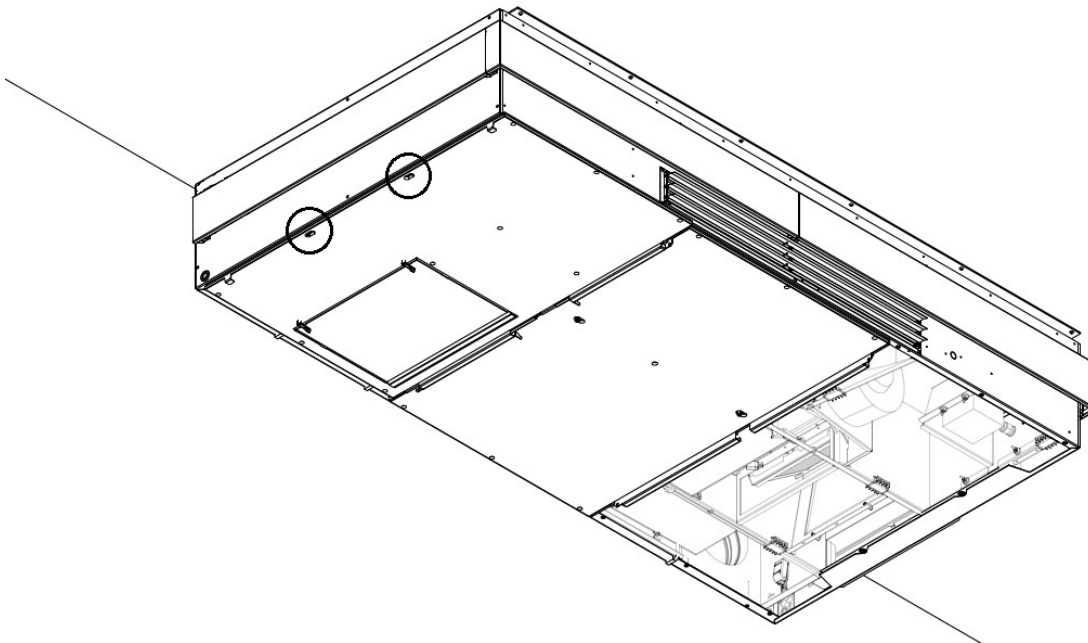


Figure 40: Keyhole on left-hand steel plate

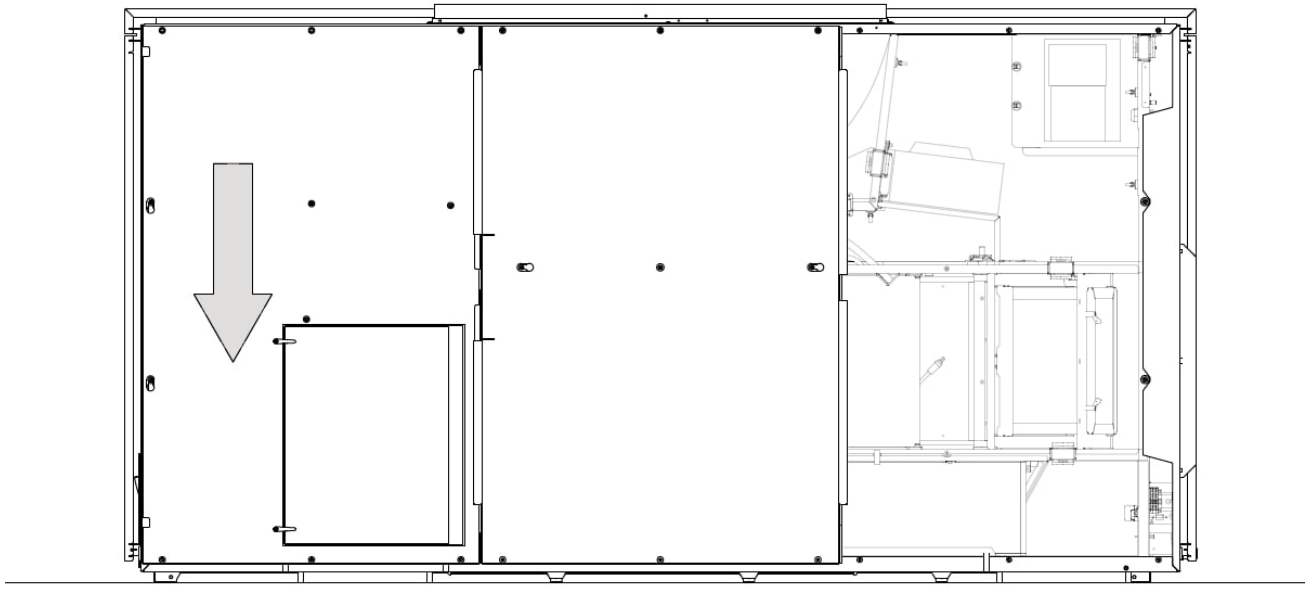


Figure 41: Push steel plate toward the wall

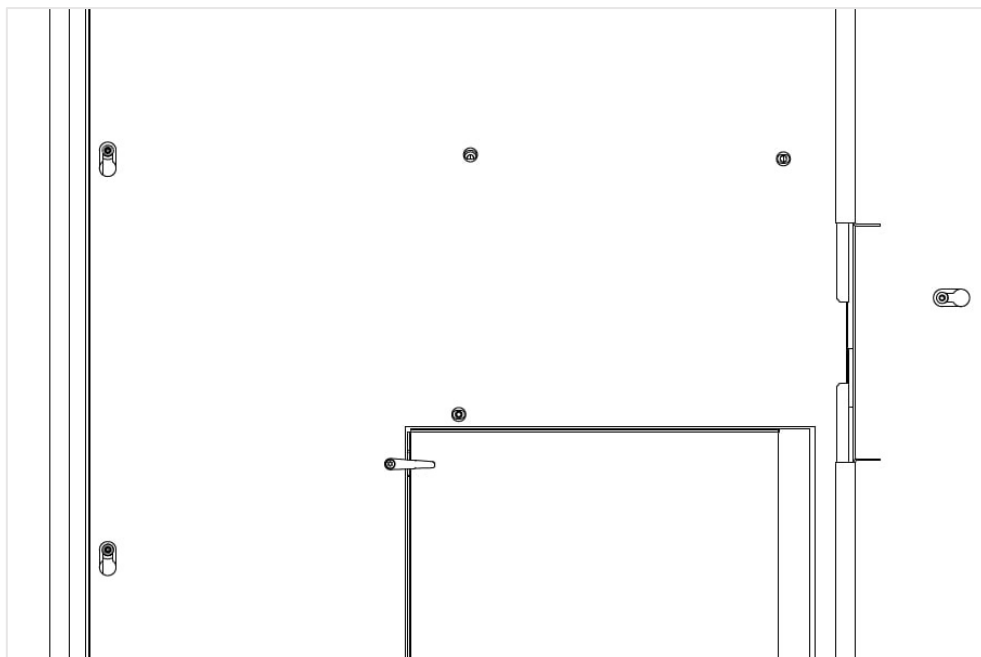


Figure 42: Steel plate locked into the narrow part of the keyhole

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

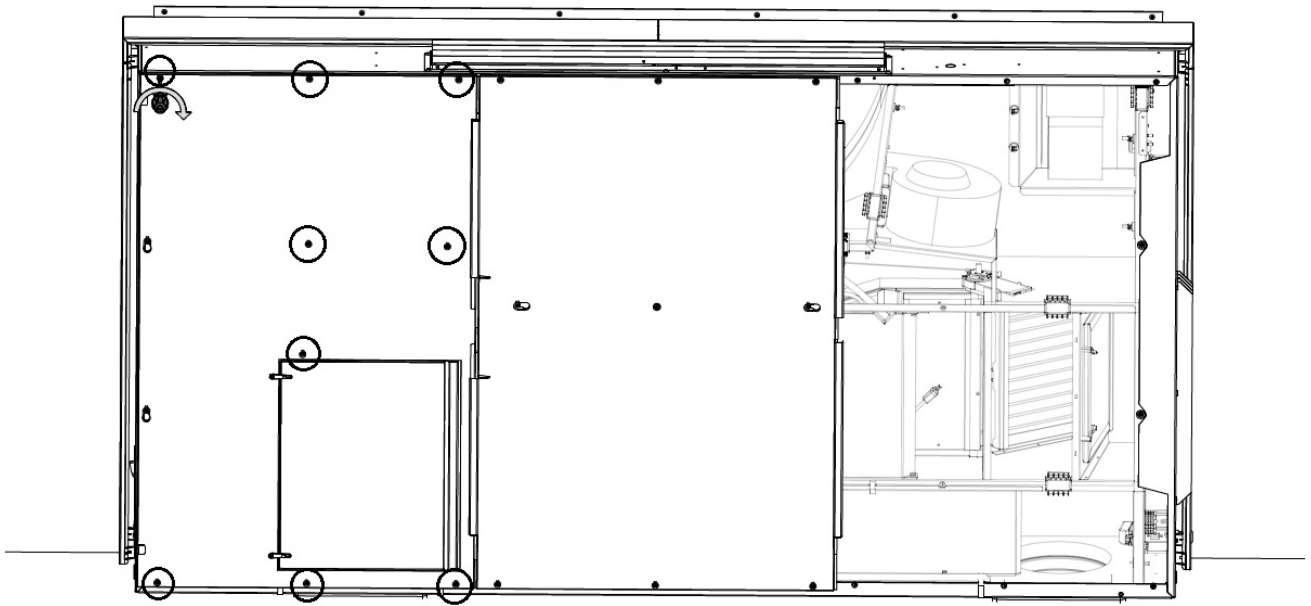


Figure 43: Attachment points for the left-hand steel plate

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

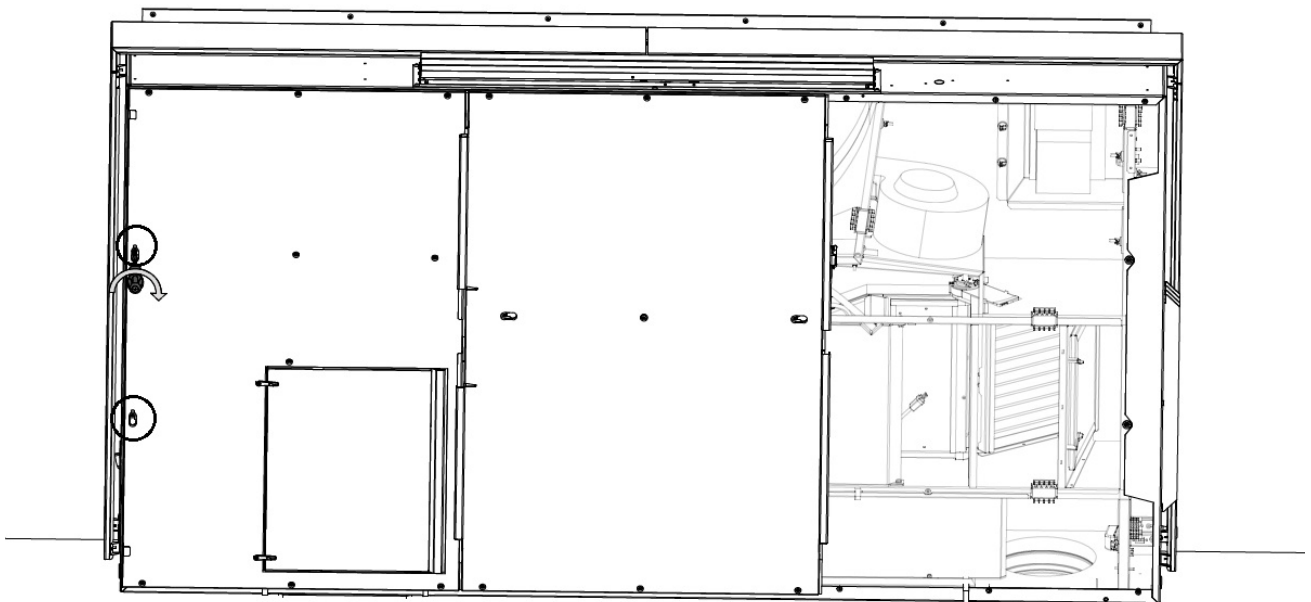


Figure 44: Tighten the bolts

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.

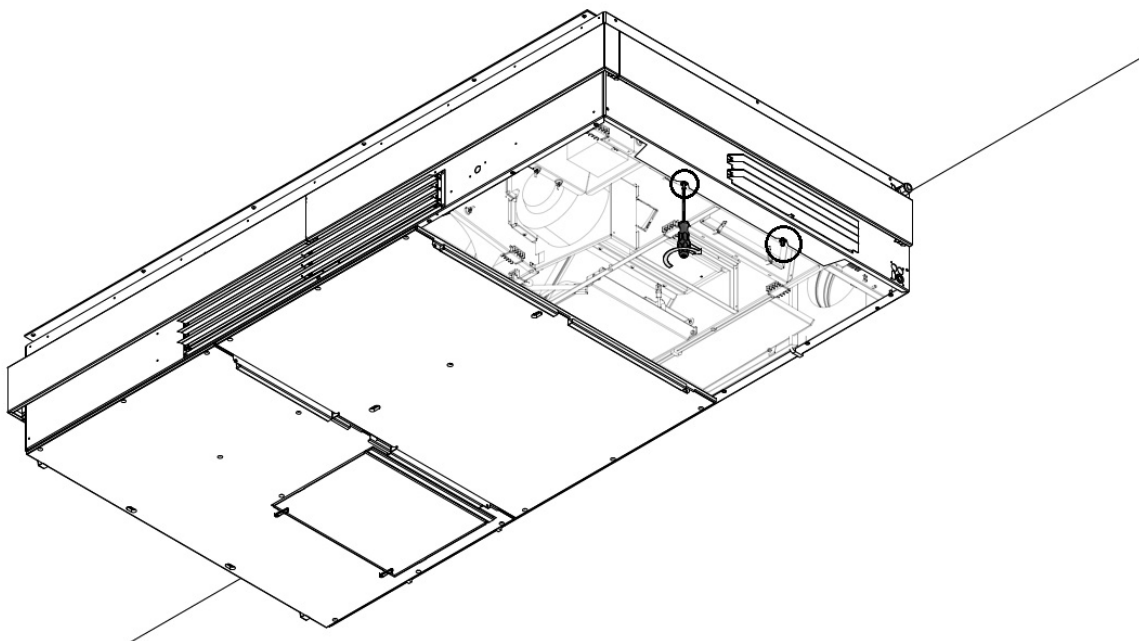


Figure 45: Screw two long bolts onto the right-hand side frame

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.

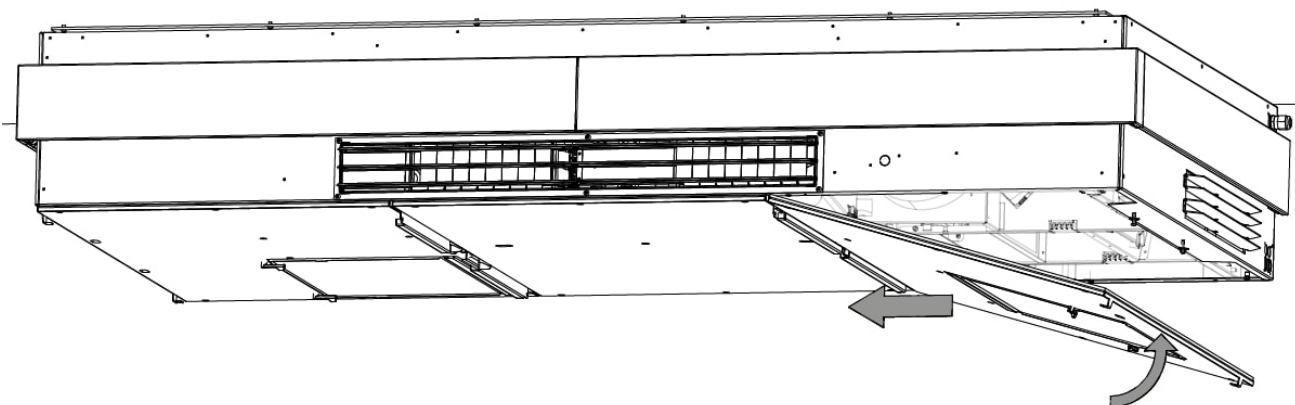


Figure 46: Lift the right-hand side plate onto the hinges

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

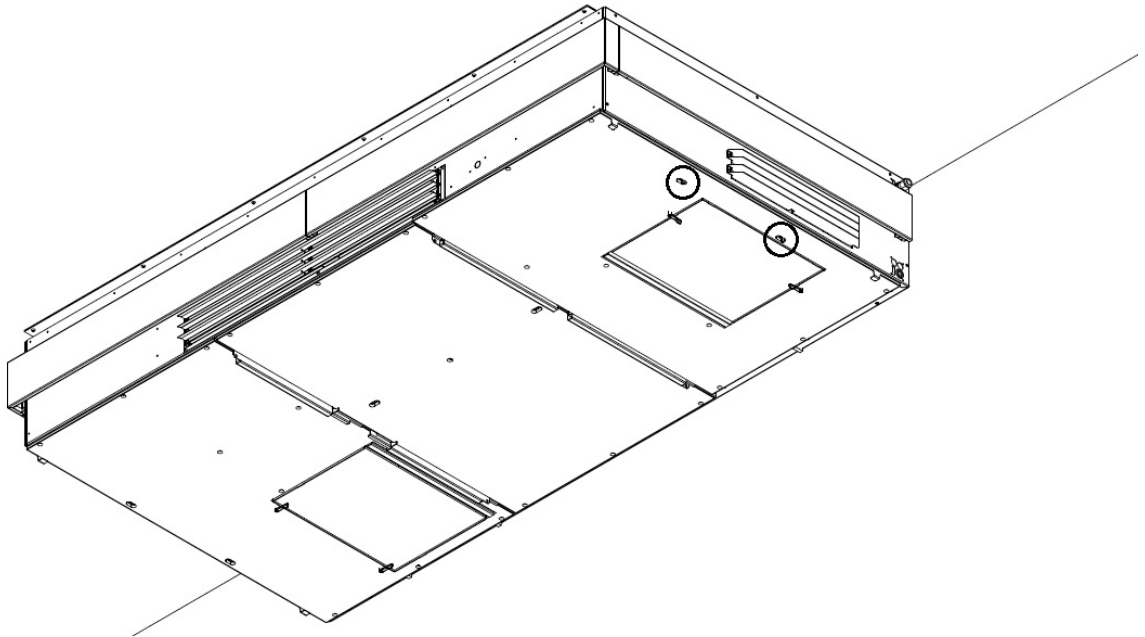


Figure 47: Keyhole on the right-hand steel plate

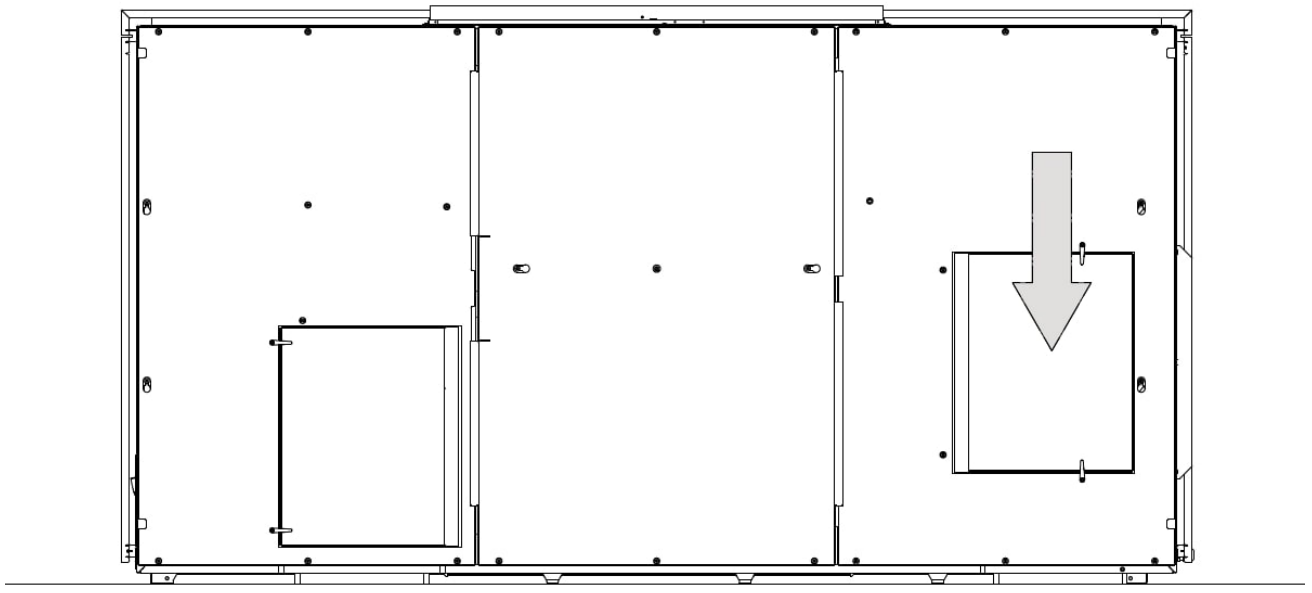


Figure 48: Push steel plate toward the wall

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.

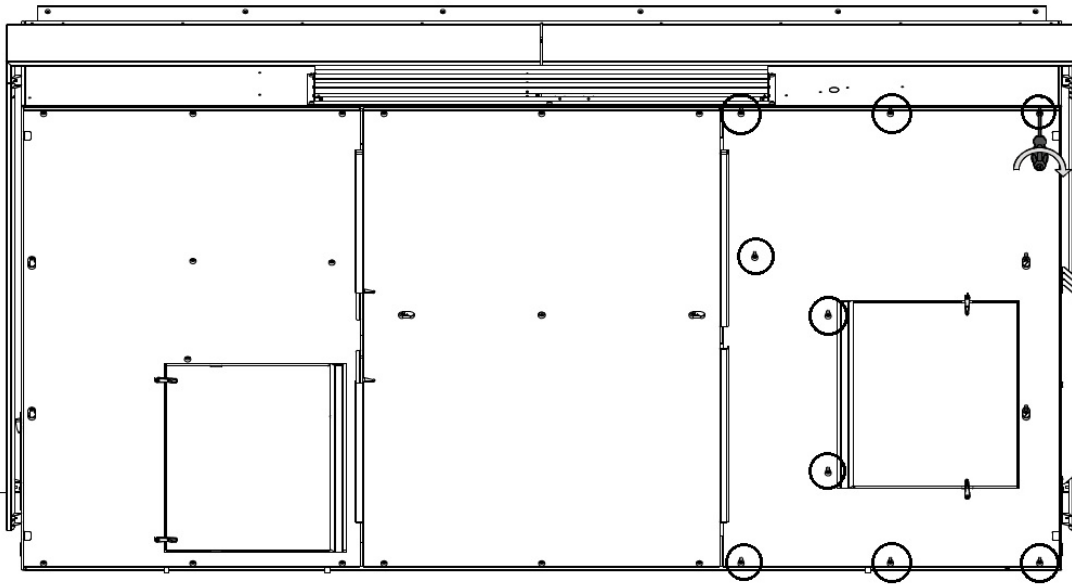


Figure 49: Attachment points for the right-hand steel plate

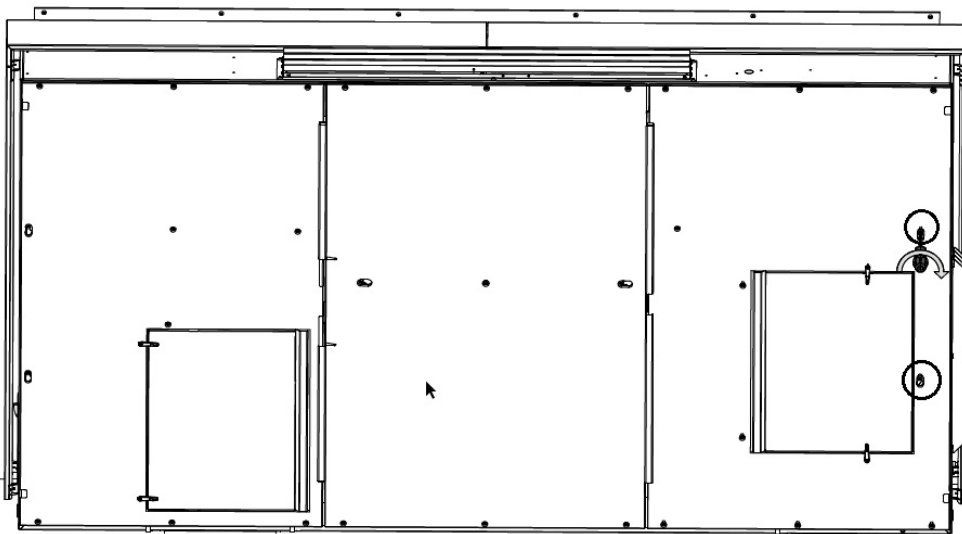


Figure 50: Tighten the bolts

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

7.14 Mount the service covers

Mounting the service covers is similar to the process of 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.

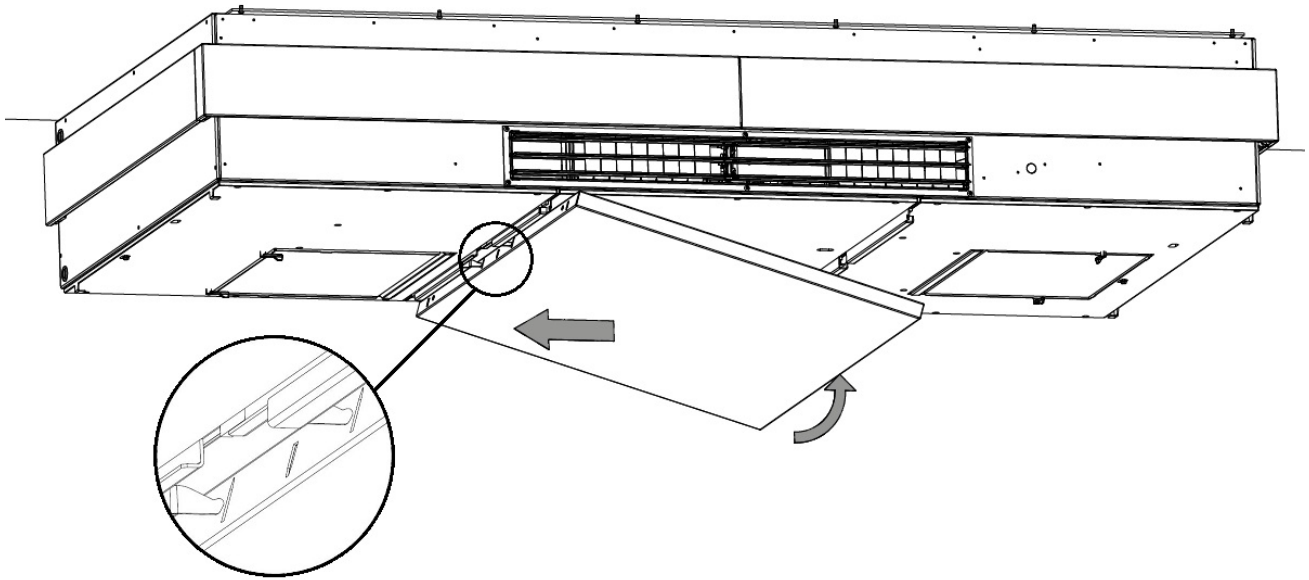


Figure 51: Lift the middle service cover up and onto the hinges

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

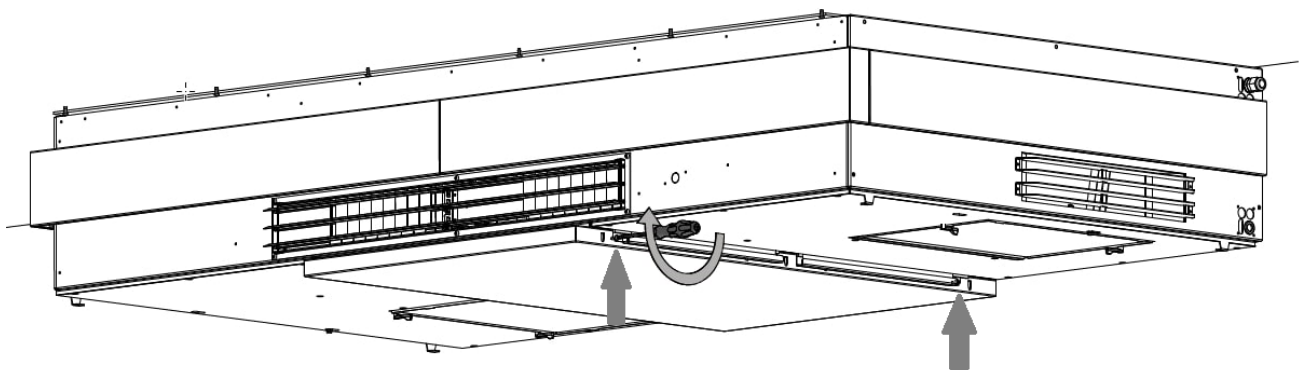


Figure 52: Mount the service cover on the right-hand side

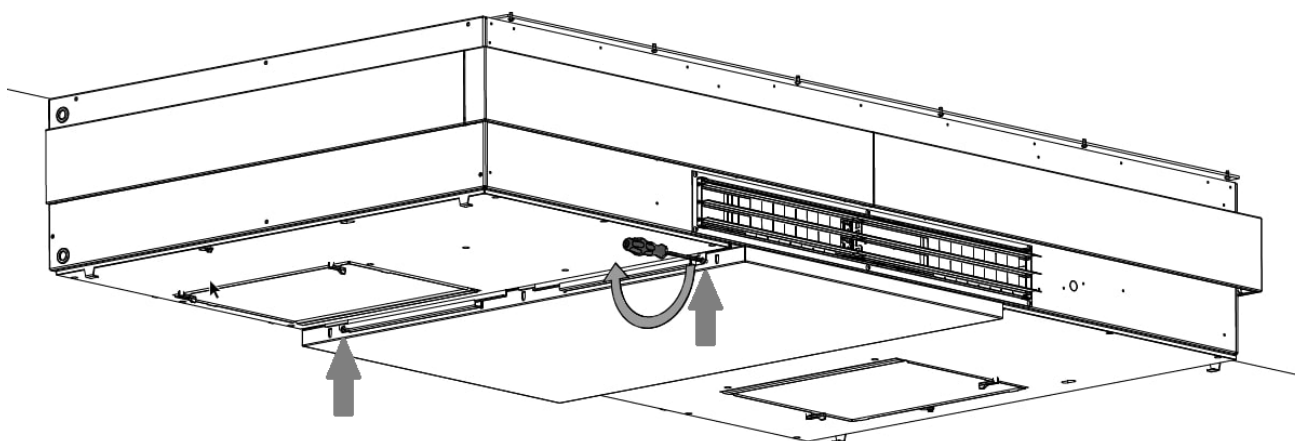


Figure 53: Mount the middle service cover on the left-hand side

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

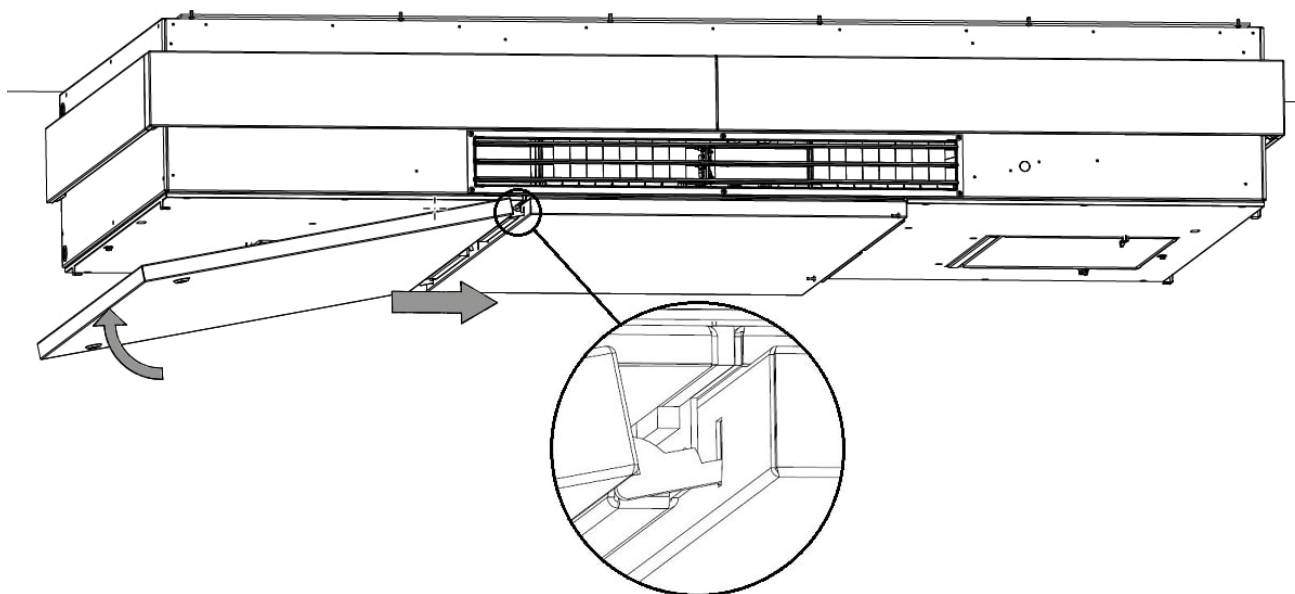


Figure 54: Hinge the left-hand service cover

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

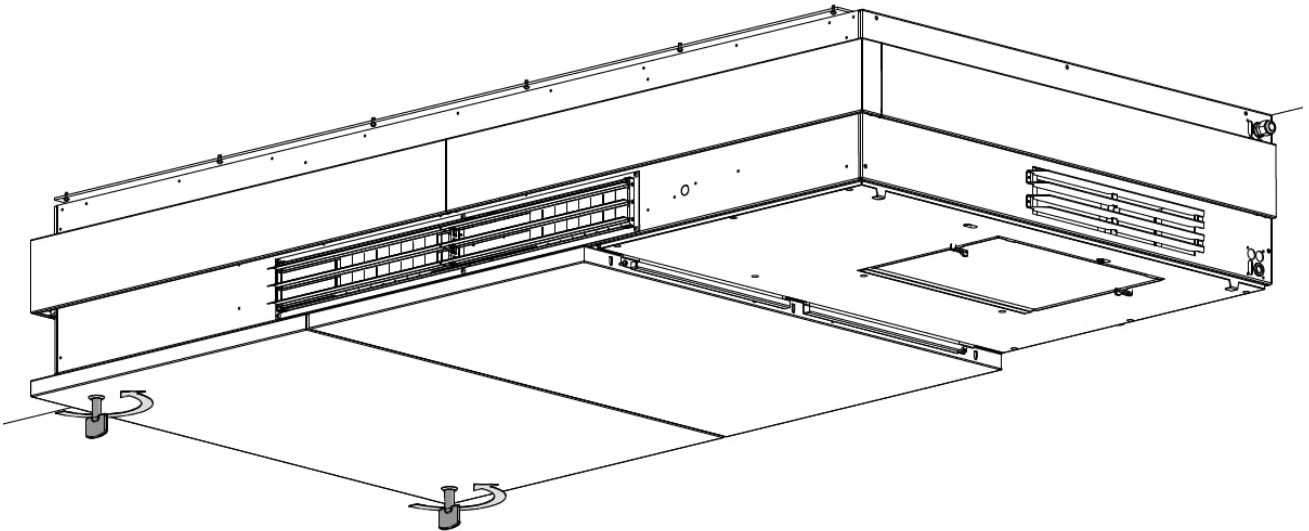


Figure 55: Lock the left-hand service cover

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

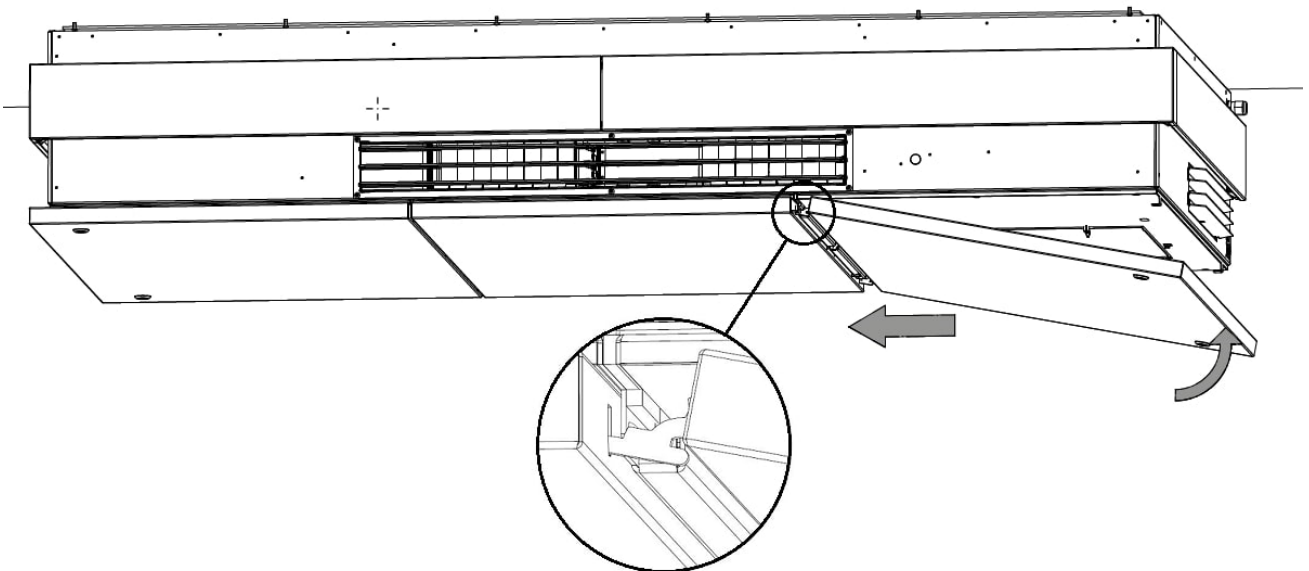


Figure 56: Hinge the right-hand service cover

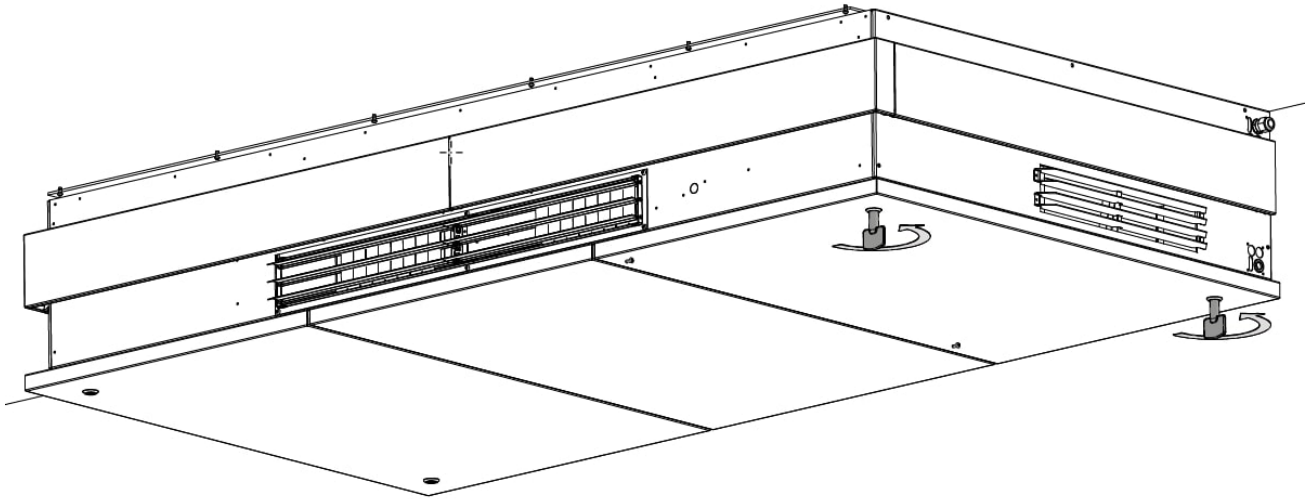
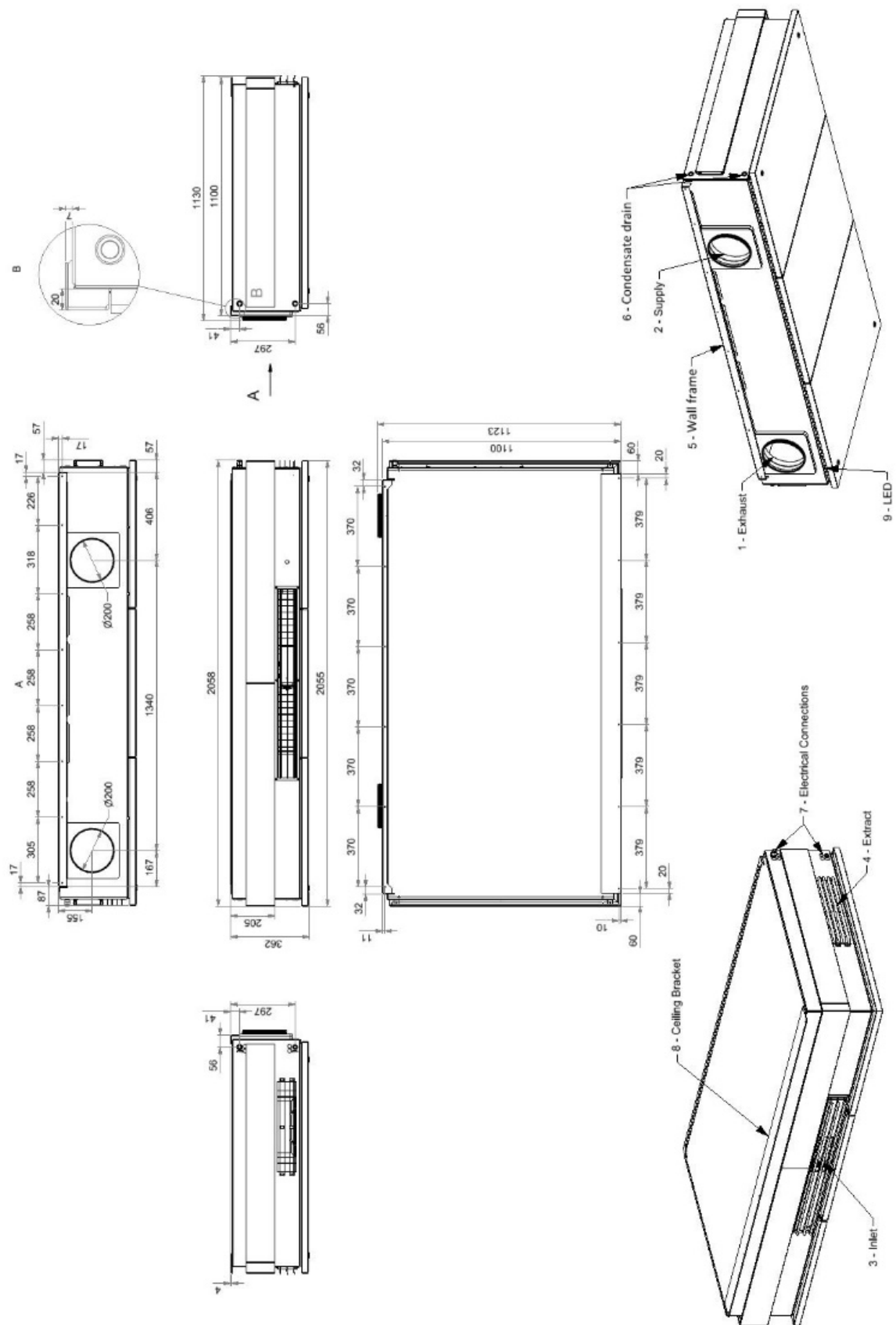


Figure 57: Lock the right-hand service cover

This completes the mounting process.

Appendix A Dimensional drawing



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