

The background features several large, overlapping, wavy lines composed of many thin, parallel lines, creating a sense of motion and depth. These lines curve across the page, framing the central text.

Montering

AM 900 | AM 1200

AIRMASTER

VARNINGSSYMBOL



Dessa anvisningar ska läsas igenom innan ventilationsanläggningen från Airmaster monteras. Genom att följa dessa anvisningar garanteras korrekt drift av produkten.

Montören ansvarar för att monteringen av anläggningen utförs enligt gällande regler och standarder.

Vid montage av ventilationsanläggningen i rum med rumsluftberoende eldstäder ska gällande bestämmelser följas.

Ventilationsanläggningen får inte monteras i rum med abrasiva (slipande) partiklar eller brännbar eller etsande gas i luften, i våtrum eller i explosionskyddade rum.

Ventilationsanläggningen får inte användas utan de filter som nämns i instruktionsboken.

Tillverkaren ansvarar inte för skador som har uppstått till följd av användning eller montering som strider mot instruktionerna i dessa anvisningar.

Tillverkaren förbehåller sig rätten att utföra ändringar utan föregående meddelande. Alla angivna värden är nominella värden och påverkas av lokala villkor.

Om anvisningar försedda med risksymboler inte följs finns det risk för personskador eller materiella skador.

Dessa anvisningar gäller den levererade Airmaster-anläggningen inklusive all utrustning och ska överlämnas till ägaren och sparas av denne.

Alla nödvändiga data och anvisningar om nätverksintegration kan laddas ner från webbplatsen www.airmaster.se.

VARNING



Serviceluckor skall inte öppnas utan att strömförsörjningen till anläggningen är frånslagen och säkrad mot oavsiktlig start.



Anläggningen skall inte startas, förrän samtliga serviceluckor och galler på kanalanslutningar är monterade.

Installationsplats och serienummer (S/N):

Typ: _____

Leveransdatum: _____

Installationsplats: _____

S/N Ventilationsanläggning: _____

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1. General Information

Scope of Delivery:

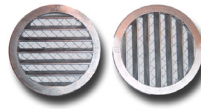
The Airmaster air handling unit with all options is packed on pallets.

Please check the delivery before installation.

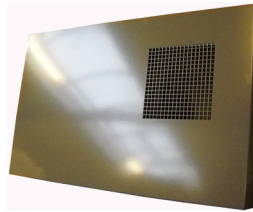
- 1. Airmaster air handling unit (AM).



- 6. Grilles (optional).



- 7. Wall cover (optional).



- 8. Operator's Manual (for programming) and Mounting Instructions and Installation Manual (for installation); to be handed over to the owner!



- 2. Control panel.

Airlinq Viva



Airlinq Orbit



or

- 3. Carbon dioxide (CO₂) sensor (optional).



- 4. Motion sensor (PIR sensor) (optional).



- 5. Set of pipes (optional).



2. Technical Specifications

AM		900	1200
Weight, Standard unit without panels	kg	180	450
Colour, Panel (steel)	RAL	9010	9010
Design panel, dimensions	mm	-	1200x1000
Colour, Case	RAL	9010	-
Dimensions	mm	see "Appendix 1 Dimensional Drawings"	
Minimum floor-to-ceiling height with wall ducts	mm	2490*	2400
Minimum floor-to-ceiling height with roof ducts	mm	2490*	2500

* Dimension can be reduced by up to 50 mm when there is no panel and the machine shoes are fully screwed down.

3. Installation



NB! The installation engineer is responsible for ensuring that the air handling unit is properly secured.



NB! The installation engineer is responsible for ensuring that any existing functions in the wall/ceiling (e.g. vapour barrier) are restored and fully functional once the unit has been installed.



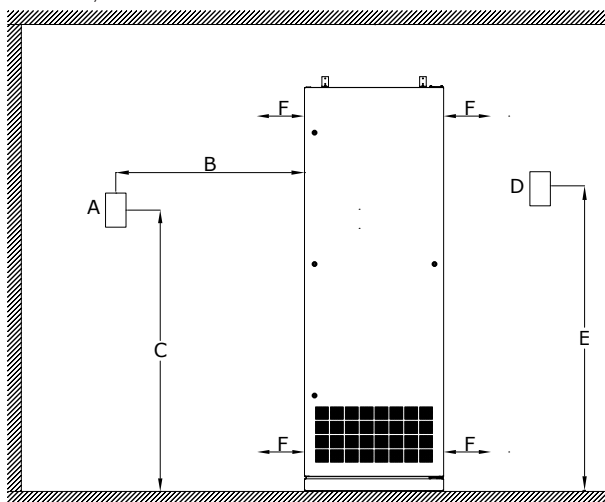
NB! Read this section 'Installation' fully before starting installation!



NB! The walls and floor at the place of installation of the Airmaster air handling unit must be even and level.

3.1. Positioning of the Unit

The diagram below shows the most important dimensions relating to the positioning of the unit. (Shown here on an AM 900).



- A: CO₂ sensor
- B: Approximately 1 m
- C: Approximately 2 m
- D: External PIR sensor
- E: Approximately 2,25 m (1,8-2,5 m)
- F: Min. distance from wall, AM 900 mixing model 20 mm.

F: Min. distance from wall, AM 900 displacement model 100 mm.

NB! The CO₂ sensor must not be fitted close to a window or door.



NB! Smoke detectors must not be too close to the inlet and extraction air flow.



NB! For the minimum floor-to-ceiling height for floor-mounted Airmaster air handling units see section '2. Technical Specifications'.



3.2. Duct Holes

NB! It is recommended that the duct holes be drilled 10-15 mm larger than indicated on the drawings as this will allow for subsequent insulation, will prevent direct contact with the wall, and will allow for a vapour barrier, etc., to be restored.



A rubber diaphragm for restoration of the function of the vapour barrier is optional available and can be delivered by Airmaster.

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



1. Marking the holes for the ducts.

Dimensions for duct hole positioning can be found in "Appendix 1 Dimensional Drawings"

2. Drill duct holes.

3.3. Air Handling Unit

Installation of an AM 900

1. Dismantle the floor panel of the unit.
2. Lift up the unit, on its adjustable feet.



NB! When lifting the unit, protection must be provided for the height-adjustable feet to prevent breakage or deformation. If necessary, insert a suitable block of wood under the bottom edge of the unit before lifting it.

3. Place the unit as close to the installation place as possible. The unit can be moved to the place with for instance a pallet loader.

4. Adjust the feet in a way, so the unit is at level.

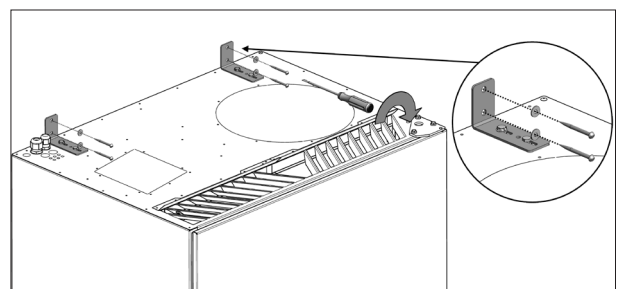
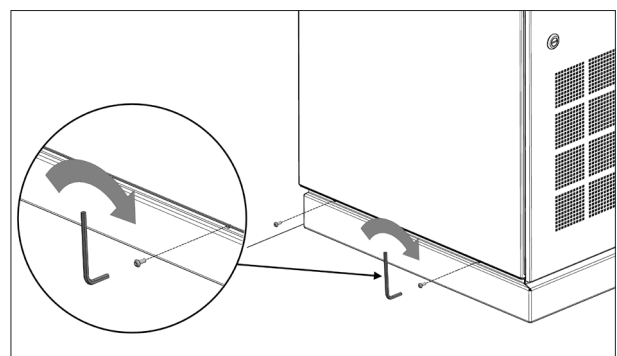
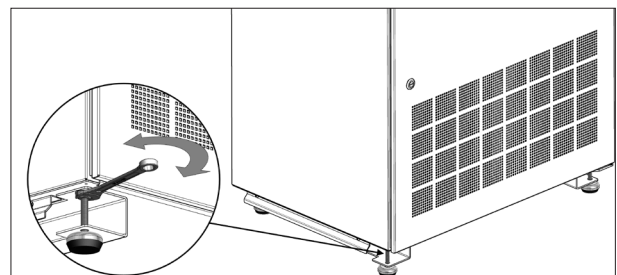
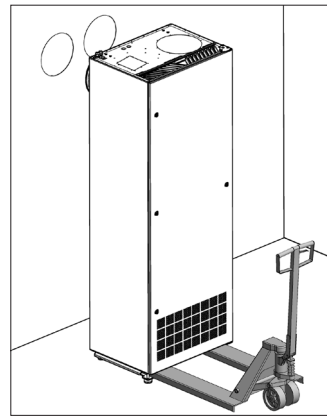
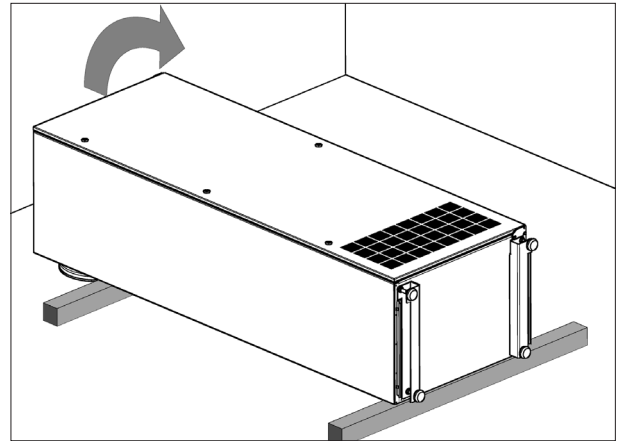
5. Move the air handling unit to its final position so that the duct connections fit into the holes without touching the wall/roof. The unit can be moved to the place with for instance a pallet loader.

6. Fit the floor panel.

7. Fit the brackets to the top of the air handling unit and the wall.

8. Seal the gap between the air handling unit and the wall by using a sealant that retains elasticity over the long term.

Note the type, date supplied, place of installation and serial numbers (S/N) of the air handling unit and the cooling module on page 2 of both the Mounting Instructions, the Installation Manual and the Operator's Manual.



Installation of an AM 1200

1. Fit the corner strips or the end panel set and position the ventilator section of the unit as close to the place of installation as possible. To achieve this, a pallet lifter may be used to move the unit.



NB! The wheels are only suitable for fine adjustment of the unit position. The wheels are not suitable for transporting the unit.

2. Adjust the height of the feet so that the ventilator section stands level.

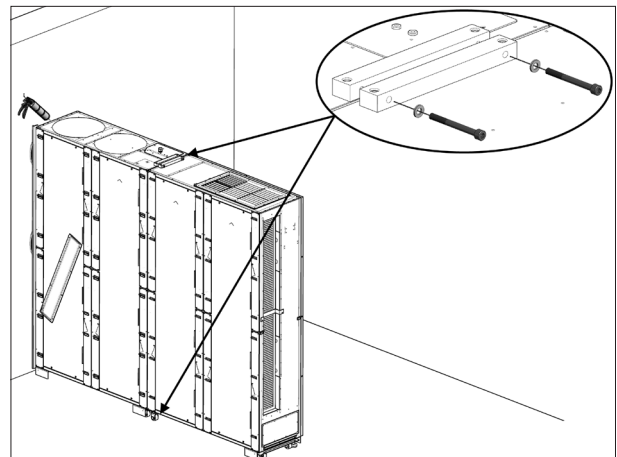
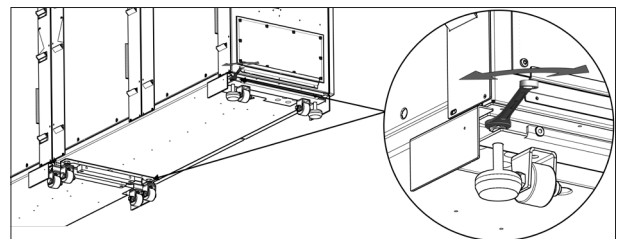
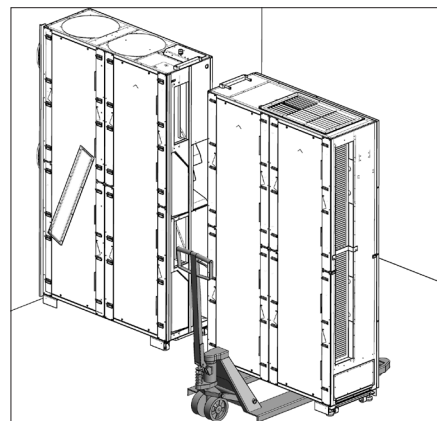
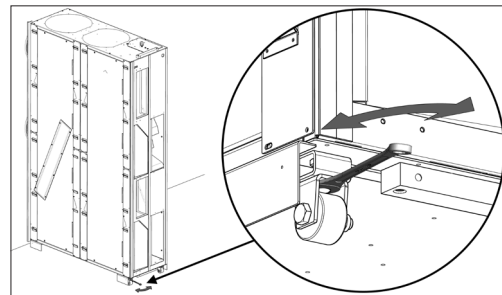
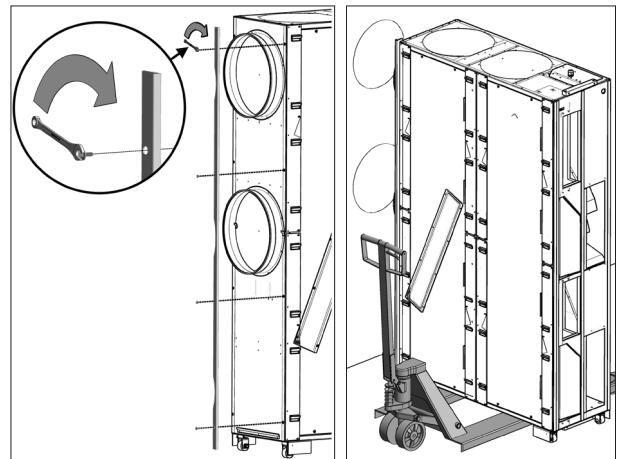
3. Push the ventilator section in place, ensuring the air ducts enter the duct holes without coming into contact with the wall.
4. Position the heat exchanger section (e.g. with a pallet lifter) and adjust the wheels of the exchanger section in line with the ventilator section.
5. Run the cables from the heat exchanger section into the electrical connection compartment at the top of the ventilator section.

6. Push the heat exchanger section up against the ventilator section.
7. Adjust the machine feet at the end of the exchanger section.

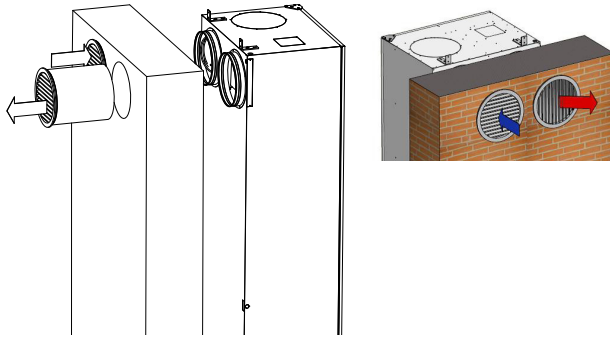
The sections should now be up against each other, both level and aligned in terms of height.

8. Screw the sections together (at the top and bottom).
9. Seal the gap between the air handling unit and the wall by using a sealant that retains elasticity over the long term.

Note the type, date supplied, place of installation and serial numbers (S/N) of the air handling unit and the cooling module on page 2 of both the Mounting Instructions, the Installation Manual and the Operator's Manual.



3.4. Ducts, Grilles and Wall Cover



The length of the air ducts is calculated on the basis of the thickness of the wall/dimensions of the roof.

! NB! Please note that the duct holes in the wall must have an outward downward gradient of 1-2% to prevent heavy rain from entering the unit.

! NB! Exhaust air ducts and supply air ducts must be insulated against condensation on the ducts, if they are within the building envelope.

! NB! Condensation and heat insulation should be performed according to standards and rules in effect.

! NB! Fire requirements according to standards and rules in effect must be observed.

! NB! The installation of ventilation ducts should be performed according to standards and rules in effect.

! NB! Exhaust air ducts and supply air ducts must be insulated against noise if they are visible. Service access must be provided to all components.

Finally, fit a suitable circular grille with the slats pointing downwards on the outside of the wall or a roof cap up on the roof.

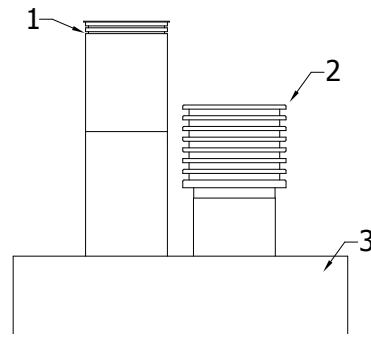
! NB! The supply air grille is fitted with the slats pointing downwards and the exhaust air grille is fitted with vertical slats, at the AM 900 pointing to the right.

! NB! To avoid an increase in noise level, it is important that the pipes should not get twisted or compressed against the air spigots of the unit.

! NB! Remember to seal around the penetrations. See section ‘Sealing the Gaps Around Ducts’.

An external wall cover may be fitted as an optional alternative to grilles at the AM 900.

3.5. Roof Cap

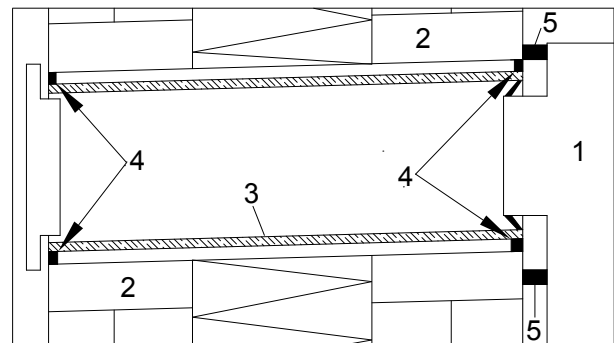


Fit roof caps on the roof to finish off the installation of exhaust and supply through a roof. Installation will depend on the roof construction (3). The illustration shows which roof caps are for exhaust (1) and supply (2).

! NB! Fire requirements for the installation of multiple systems must be observed according to the standards and rules in effect.

3.6. Sealing the Gaps Around Ducts

Sealing of the gaps around ducts is performed as shown in the sectional drawing below.



Application of a seal (shown here on a model with wall ducts) is important at the ducts (3) inside and the outside edges (4) in order to prevent draughts between the unit (1) and the wall/roof (2) as well as between the ducts (3) and the wall/roof (2).

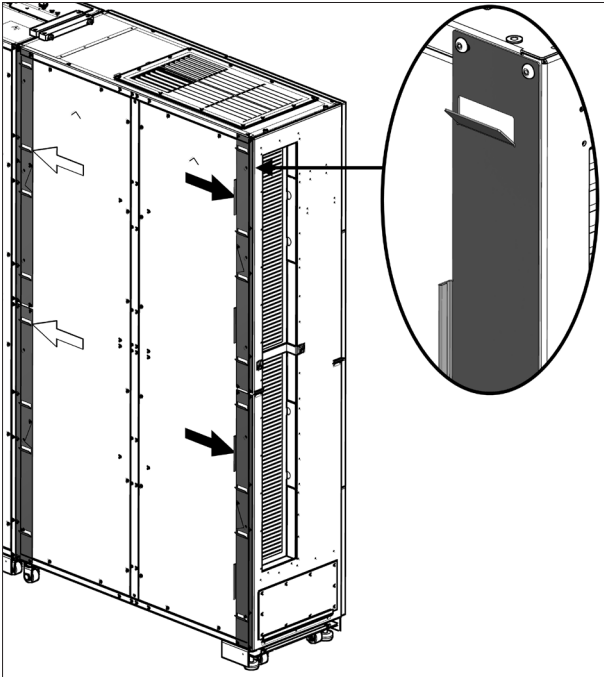
Sealing on the inside between the pipes (3) and the wall/ceiling (2) can also be performed between the air handling unit (1) and the wall/roof (2) at position (5) before fitting the air handling unit.

Depending on the condition of the wall/ceiling and the dimensions of the air handling unit, a sealant that retains elasticity over the long term or expanding sealing tape can be used to obtain a flexible seal. This material is to be applied to the rear of the unit around the air spigots, or at the side of the duct holes on the wall to even out irregularities on the wall/ceiling.

3.7. Fitting of Panels (AM 1200)

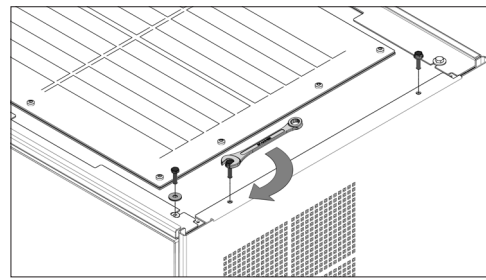
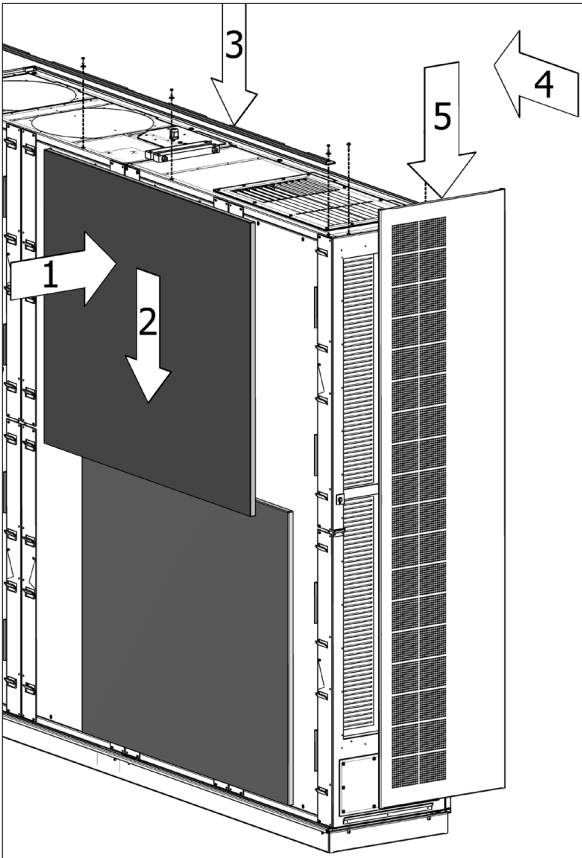
The panels should not be fitted until the unit is complete with all equipment, has been fitted and connected, and the functions of the unit are thoroughly tested.

1. Fit all design panel mounting strips.

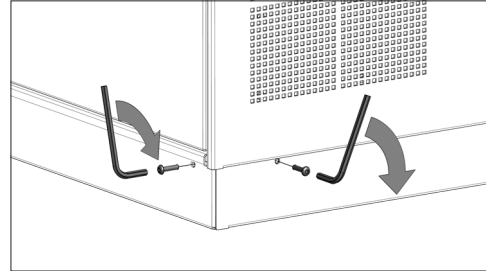


NB! The mounting strips with a vertical edge should be fitted to the right side (see black arrows). The angels should point upwards.

2. Fit all the design panels on the angels of the unit, the top strips and the extract panel set on the unit.



3. Fit the plinths.



3.8. Installation Check

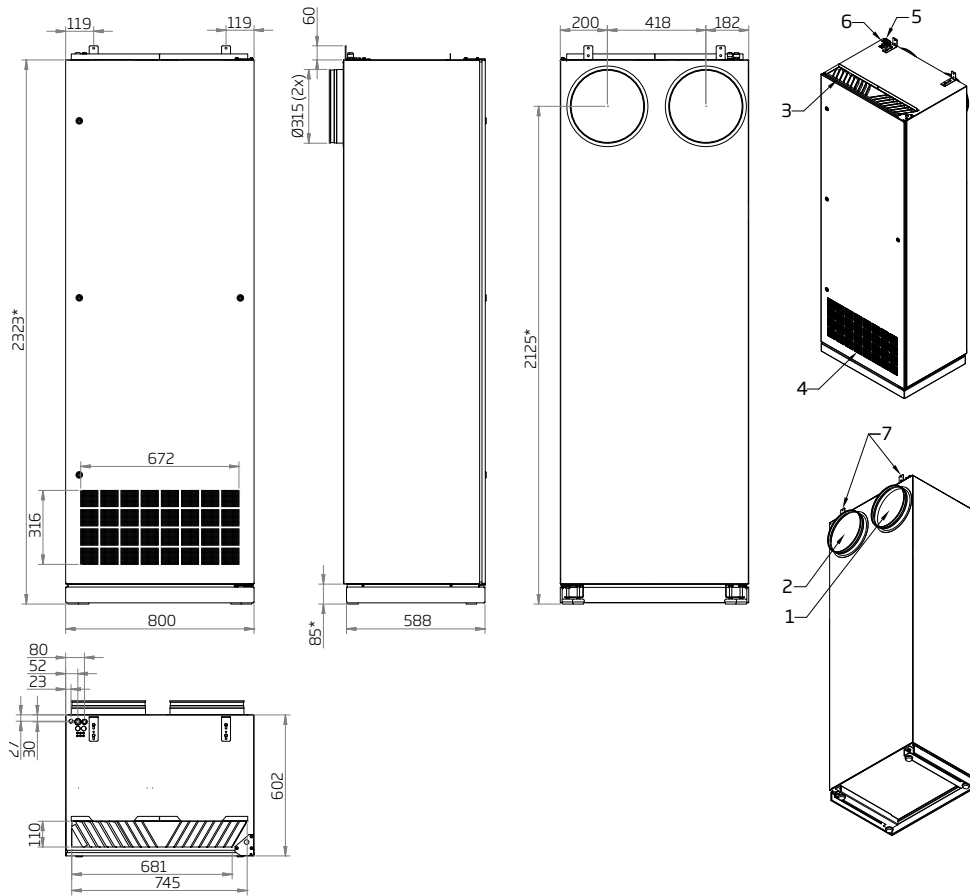
	yes	no
Data and serial numbers noted	<input type="checkbox"/>	<input type="checkbox"/>
Unit fitted	<input type="checkbox"/>	<input type="checkbox"/>
Angle brackets fitted	<input type="checkbox"/>	<input type="checkbox"/>
Pipes and grates fitted	<input type="checkbox"/>	<input type="checkbox"/>
Wall cover fitted	<input type="checkbox"/>	<input type="checkbox"/>
Roof cap fitted	<input type="checkbox"/>	<input type="checkbox"/>
Screws retightened	<input type="checkbox"/>	<input type="checkbox"/>

Name of installation engineer:

Comment:

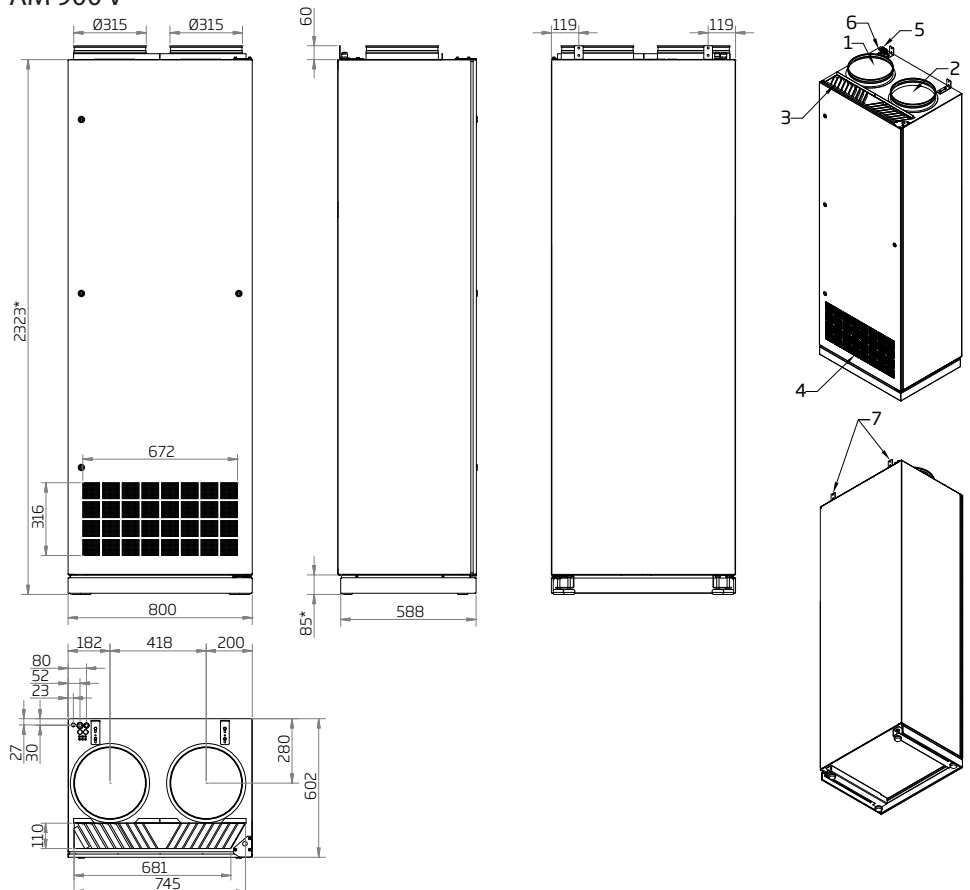
Bilaga 1 Måttritningar

AM 900 H



- 1 = Avluft
- 2 = Uteluft
- 3 = Tilluft
- 4 = Frånluft
- 5 = El-anslutning
- 6 = Kondensavlopp
- 7 = Vinkelbeslag

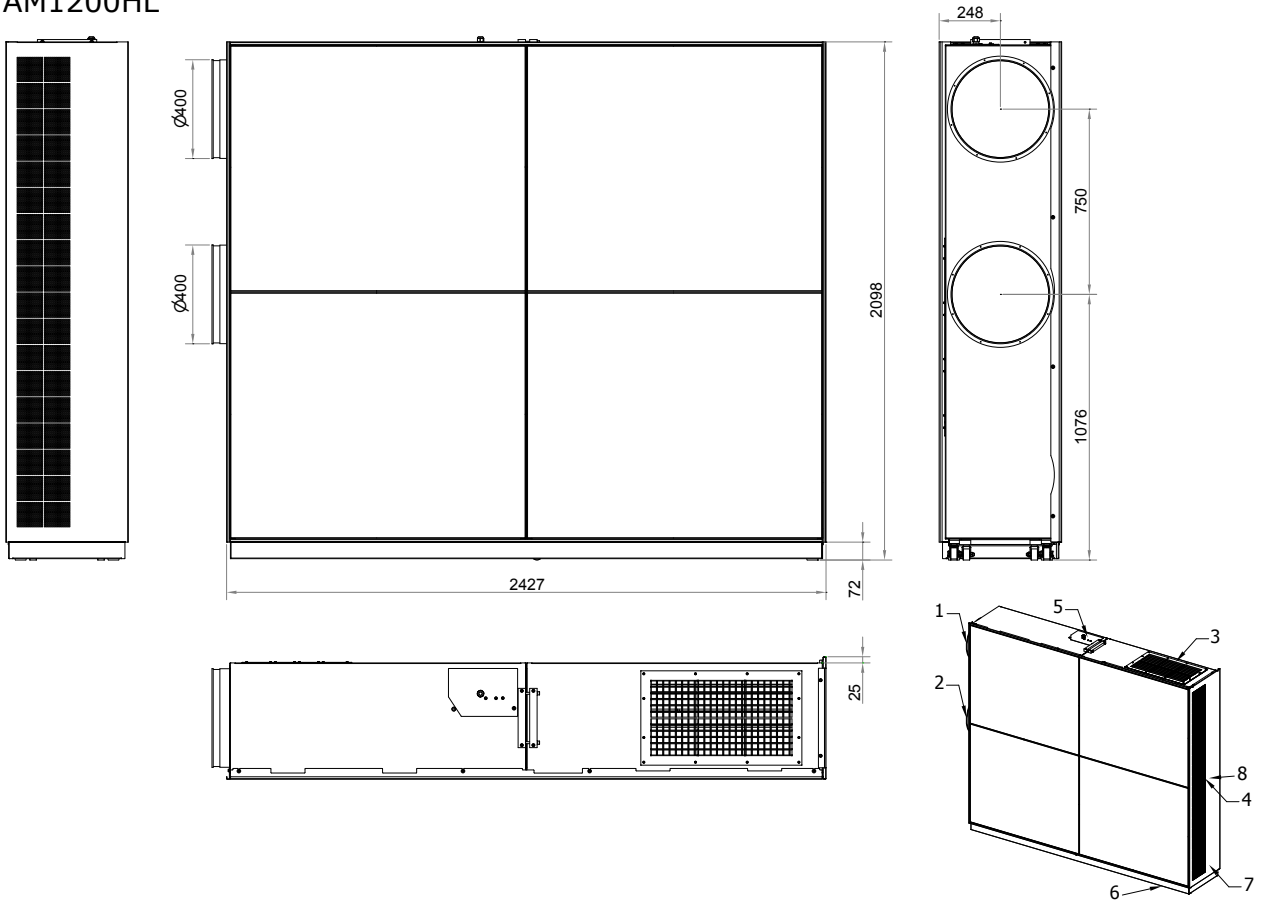
AM 900 V



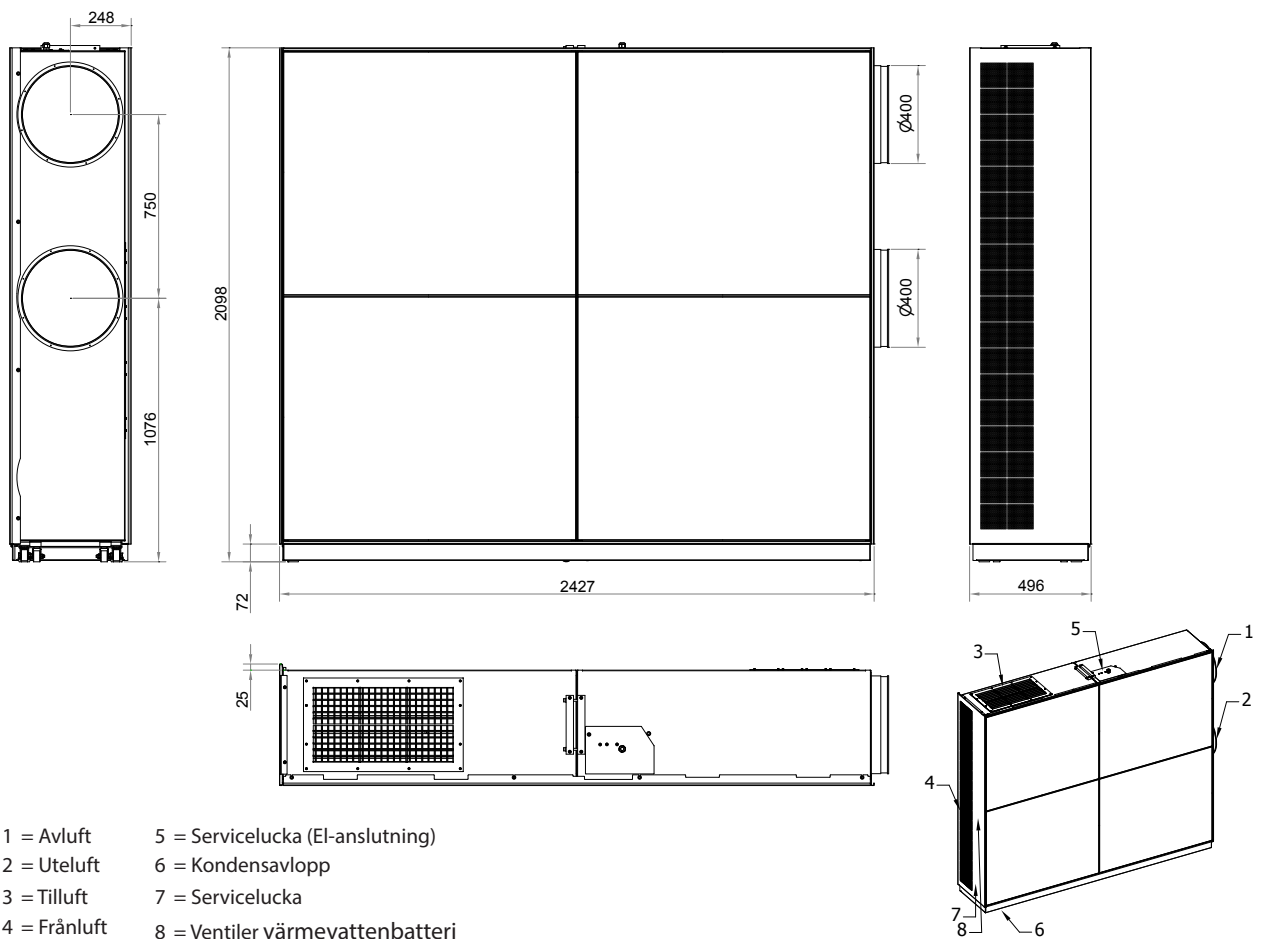
* Mått kan reduceras med upp till 50mm utan panel och maskinskor helt nerskrivade.

AM 1200 H

AM1200HL

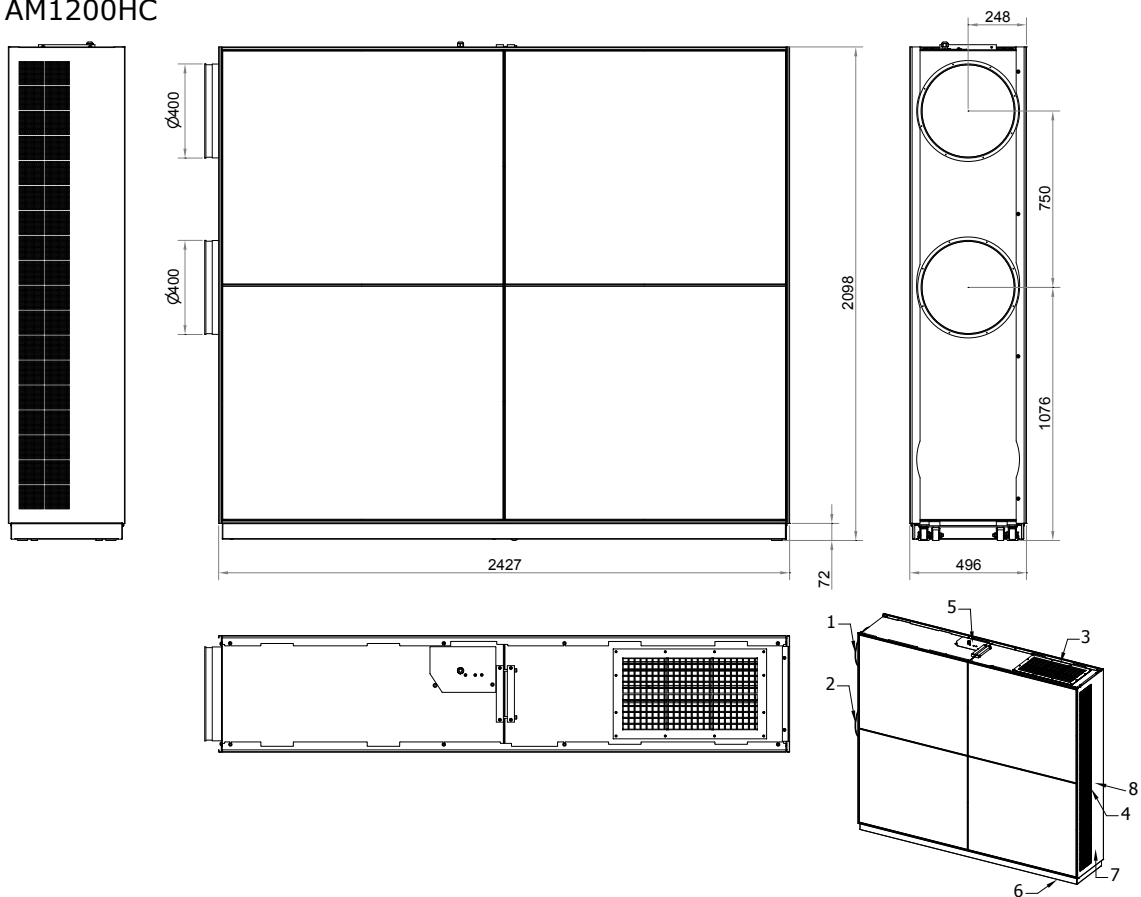


AM1200HR



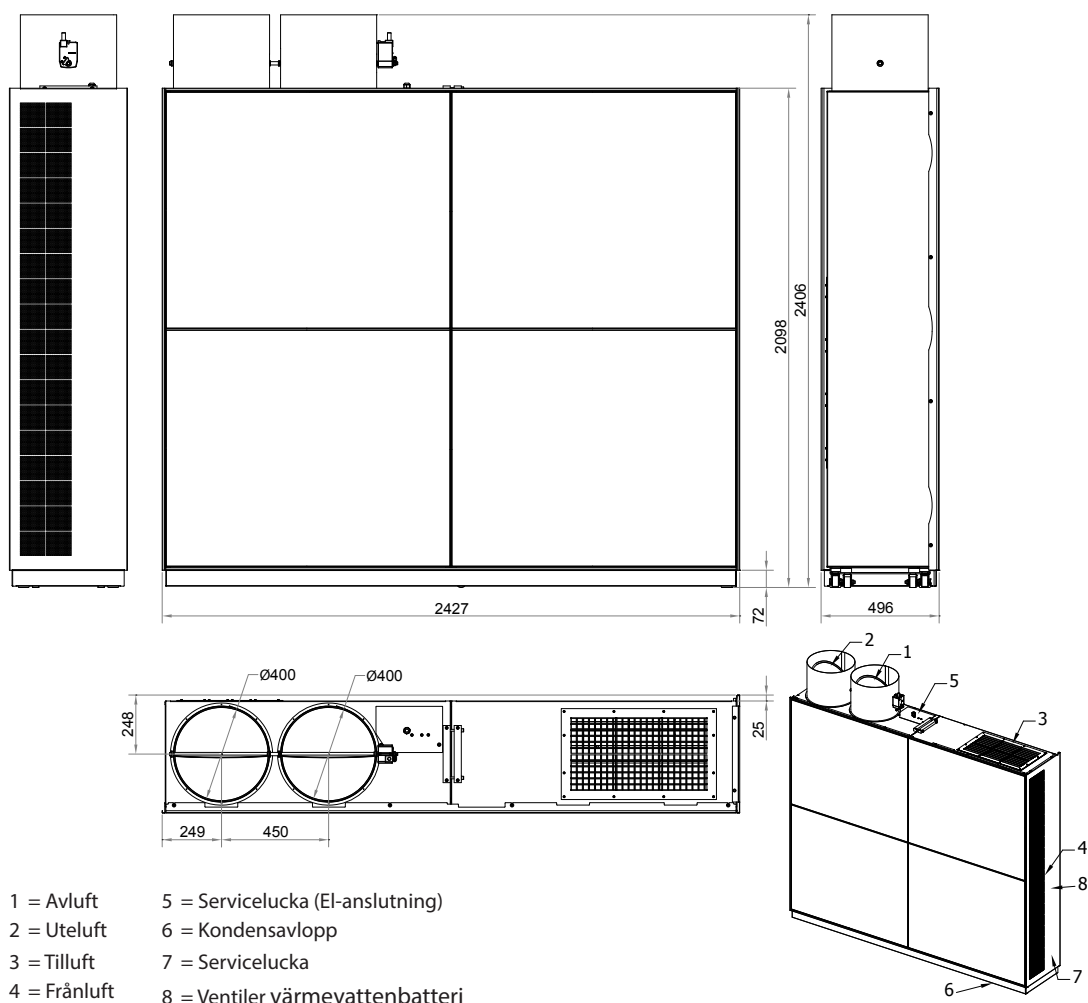
- 1 = Avluft
- 2 = Uteluft
- 3 = Tilluft
- 4 = Frånluft
- 5 = Servicelucka (El-anslutning)
- 6 = Kondensavlopp
- 7 = Servicelucka
- 8 = Ventiler värmevattenbatteri

AM1200HC



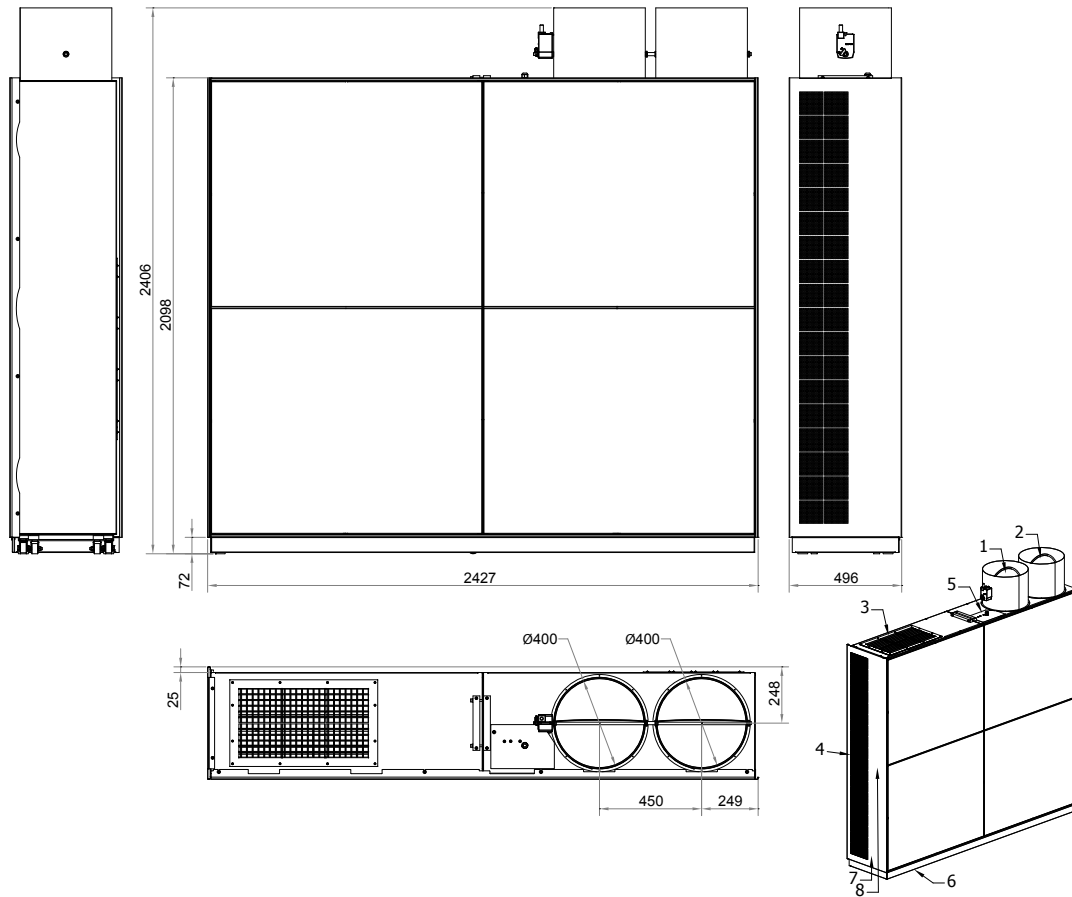
AM 1200 V

AM1200VL

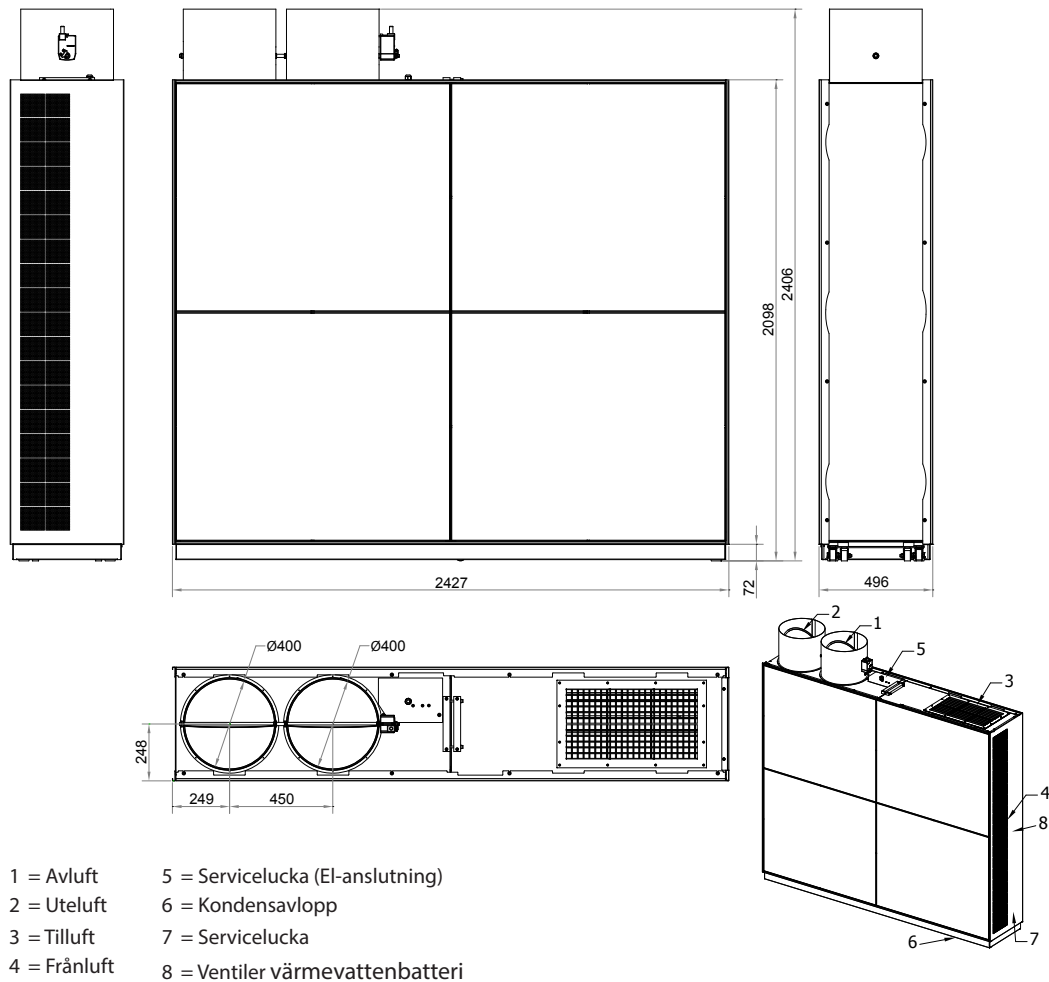


- 1 = Avluft
- 2 = Uteluft
- 3 = Tilluft
- 4 = Frånluft
- 5 = Servicelucka (El-anslutning)
- 6 = Kondensavlopp
- 7 = Servicelucka
- 8 = Ventiler värmevattenbatteri

AM1200VR



AM1200VC

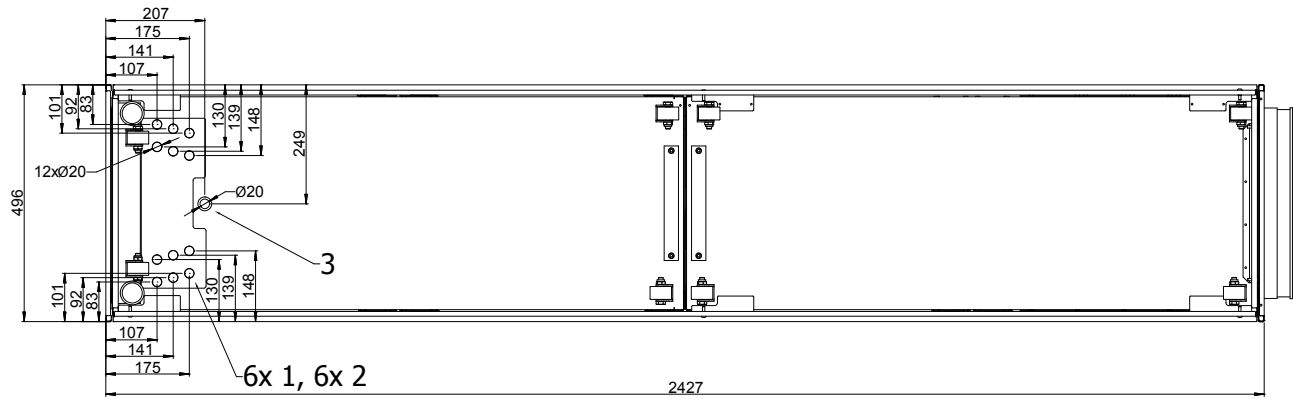


- 1 = Avluft
- 2 = Uteluft
- 3 = Tilluft
- 4 = Frånluft
- 5 = Servicelucka (El-anslutning)
- 6 = Kondensavlopp
- 7 = Servicelucka
- 8 = Ventiler värmevattenbatteri

Bilaga 2 Ytterligare mått

Anslutning vattneftervärmebatteri och kondensdränarna

AM 1200



Anslutning från undersidan:

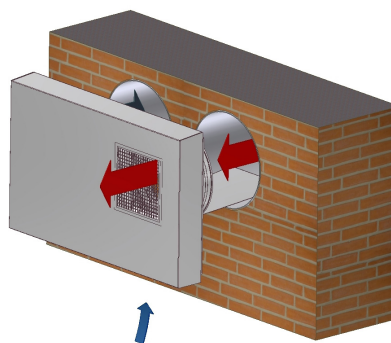
1: "FREM", 2: "RETUR"

3: "KONDENS"

Bilaga 3 Montering av kombihuv

Kombihuv till AM 900

Kombihuvan förhindrar, att tilluften blandas upp med frånluften, eftersom luften tvingas i olika riktningar.



- Bakre plåten monteras provisoriskt upp, så att den sitter centrerad i förhållande till luftkanalerna.

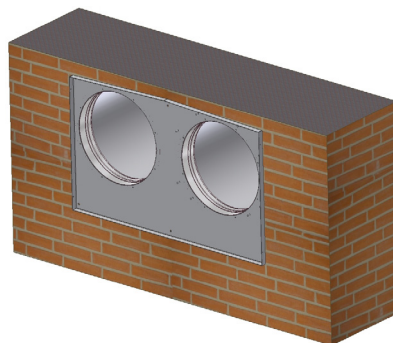


Kom ihåg: Luftkanalerna skall ha 1-2% utåtgående fall! Se även avsnitt "Fasadgaller, ventilationsrör, etc."

- Monteringshål borras.
- Bakre plåten monteras ihop med luftkanalrören.



Kom ihåg att foga runt ventilationsrören! Se även avsnitt "Fogning runt kanaler".

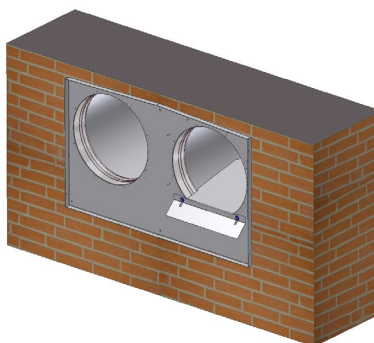


- Lockplåten levereras med en standardlängd på 400 mm och skall kortas i förhållande till tjockleken på väggen.

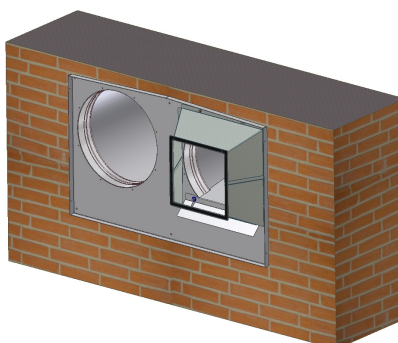


OBS: Lockplåten får inte störa funktionen på anläggningens avluftsspjäll.

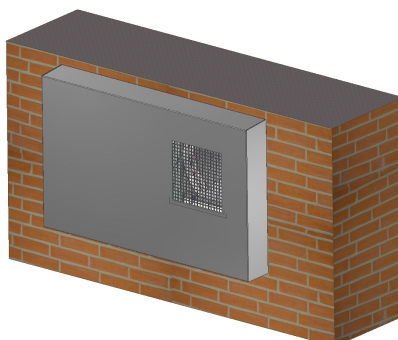
- Plåten monteras med 2 av de levererade 5 mm låsmuttrar och stjärnskruvar.
- Mellan avstängningsplåten och ventilations-kanalen fogas med en långtidselastisk fogmassa (t.ex. silikon).



- Avluftstratten monteras med resterande 6 låsmuttrar.



- Huvan monteras med de 4 levererade skruvarna.



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