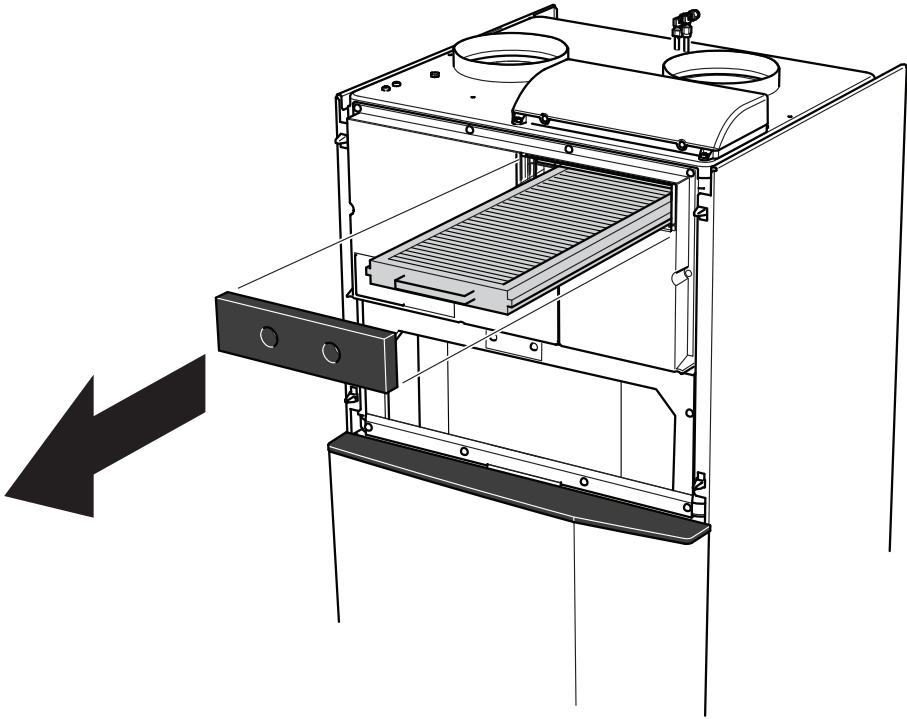
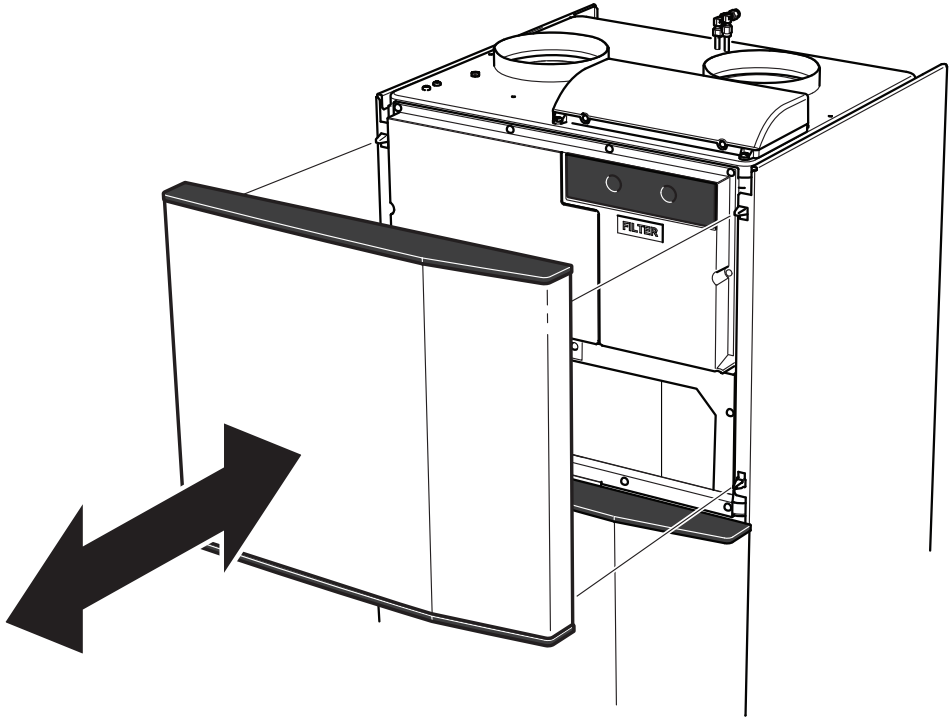


# Supply air module

## **SAM S44**

---





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# Important information

## Safety information

This manual describes installation and service procedures for implementation by specialists.

The manual must be left with the customer.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

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System pressure		
Max. system pressure, heating medium	MPa	Defined by main product
Max flow	l/s	Defined by main product
Max. permitted ambient temperature	°C	35

If the supply cable is damaged, only NIBE, its service representative or similar authorised person may replace it to prevent any danger and damage.

## SYMBOLS

Explanation of symbols that may be present in this manual.



### NOTE

This symbol indicates danger to person or machine.



### Caution

This symbol indicates important information about what you should consider when installing or servicing the installation.



### TIP

This symbol indicates tips on how to facilitate using the product.

## MARKING

Explanation of symbols that may be present on the product's label(s).



Danger to person or machine.

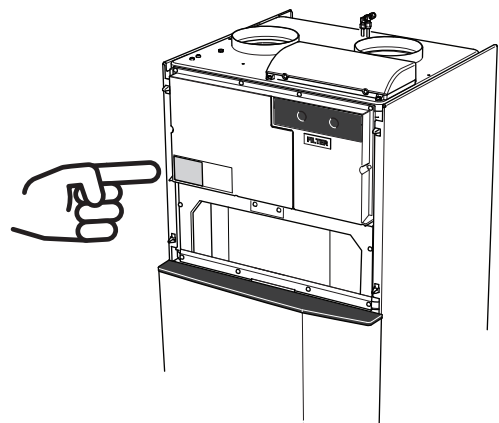


Read the User Manual.

## General

### SERIAL NUMBER

The serial number can be found to the left, inside the upper front cover.



### Caution

You need the product's (14 digit) serial number for servicing and support.

## RECOVERY



Leave the disposal of the packaging to the installer who installed the product or to special waste stations.

When disposing of the product, its constituent materials and components, e.g. compressors, fans, circulation pumps and circuit boards, must be disposed of at a special waste station or dealer who provides this type of service.

To access the separate components, refer to the section that shows the construction of the product. No special tools are required for access.

Improper disposal of the product by the user results in administrative penalties in accordance with current legislation.

## INSPECTION OF THE INSTALLATION

In addition, fill in the page for the installation data in the User Manual.

Current regulations require the supply air module to be inspected before it is put into service. The inspection must be carried out by a suitably qualified person.

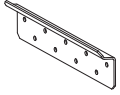
✓	Description	Notes	Signature	Date
	Ventilation (page 16)			
	Setting ventilation flow supply air			
	Heating medium (page 12)			
	System flushed			
	System vented			
	Check against output and pressure drop diagrams			
	Connected according to outline diagram			
	Electricity (page 17)			
	Supply connected 230 V			
	Connected communication			

# Delivery and handling

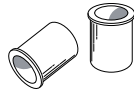
## Transport

The supply air module must be transported and stored dry.

## Supplied components



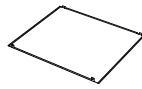
Wall bracket  
1 x



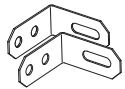
Support bushes  
4 x



Vent hose  
1 x



Base plate  
1 pcs



Angle fitting  
2 pcs



Screw M5x9  
6 pcs



Wall spacers  
2 x

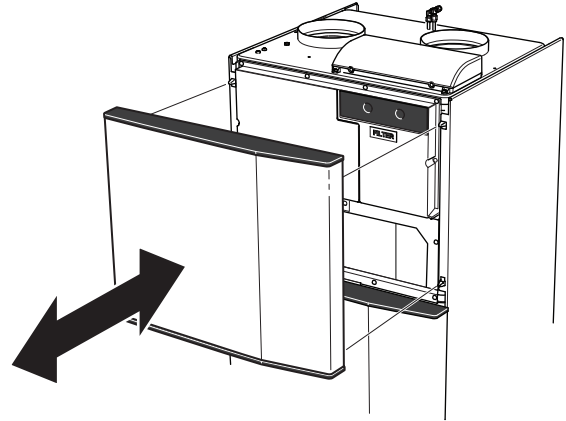
## Compatible products

- S735

## Removing the covers

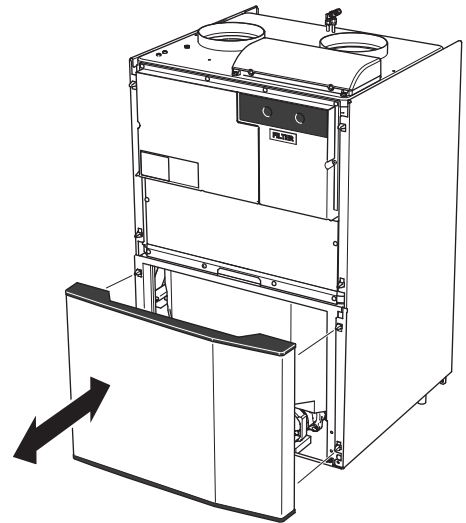
### UPPER FRONT COVER

Remove the upper front cover by pulling it straight out.



### LOWER FRONT COVER

Unhook the lower front cover.



## Assembly

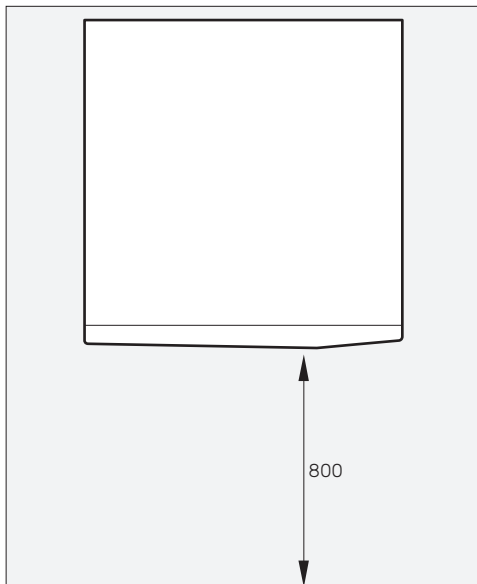
SAM S44 is mounted on the wall using the enclosed wall rail.

Noise from the fan can be transferred to the wall rail.

- Install SAM S44 against an outside wall, ideally in a room where noise does not matter, in order to eliminate noise problems. If this is not possible, avoid placing it against a wall behind a bedroom or other room where noise may be a problem.
- Wherever the unit is located, walls to sound sensitive rooms should be fitted with sound insulation.
- Route pipes so they are not fixed to an internal wall that backs on to a bedroom or living room.

## INSTALLATION AREA

Leave a free space of 800 mm in front of the product. All service on SAM S44 can be carried out from the front.

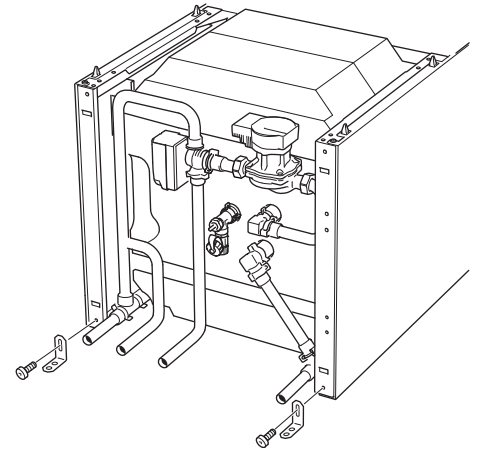


### NOTE

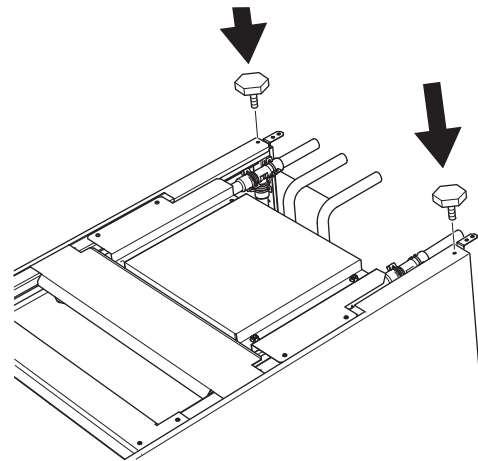
Ensure that there is sufficient space (300 mm) above SAM S44 for connecting ventilation ducts.

## WALL INSTALLATION

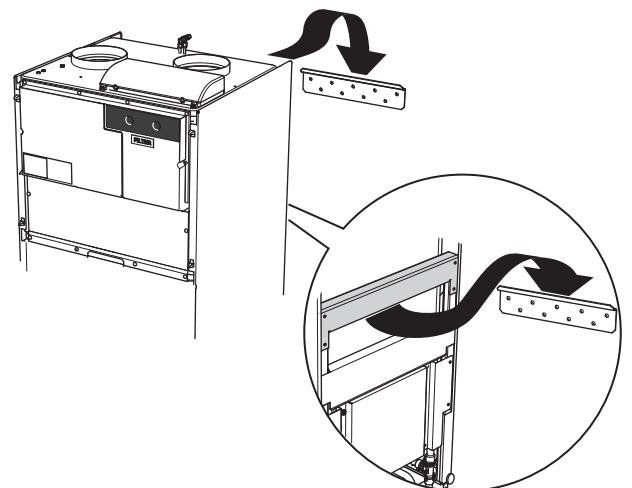
1. Fit the enclosed angle fittings at the rear edge of SAM S44 and secure them in place using the enclosed screws.



2. Install the enclosed wall spacers. The purpose of the wall spacers is to ensure that SAM S44 hangs flat against the wall.

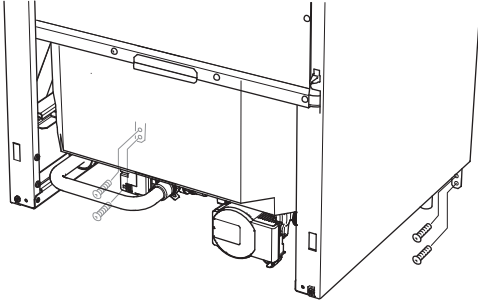


3. Fit the enclosed rail on the wall. Ensure that the rail is fitted in such a way that it can bear the weight of SAM S44.
4. Fit SAM S44 on the rail as illustrated.





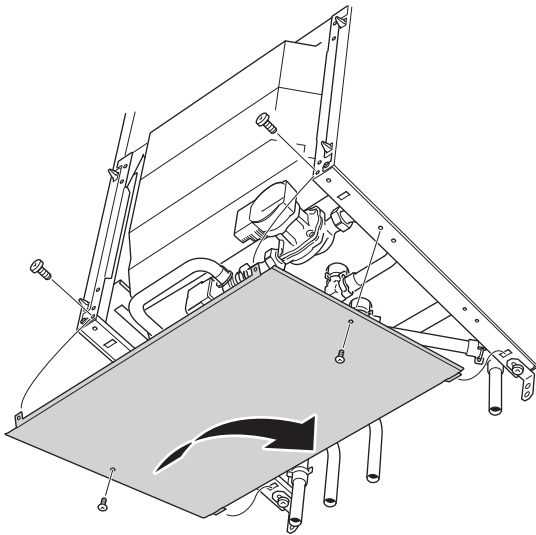
5. Secure SAM S44 at the lower edge with screws in the wall.



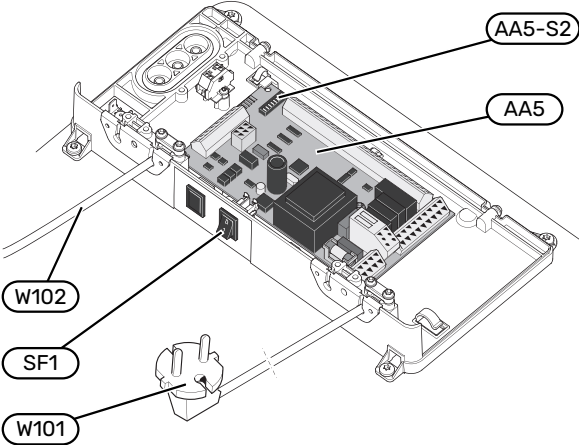
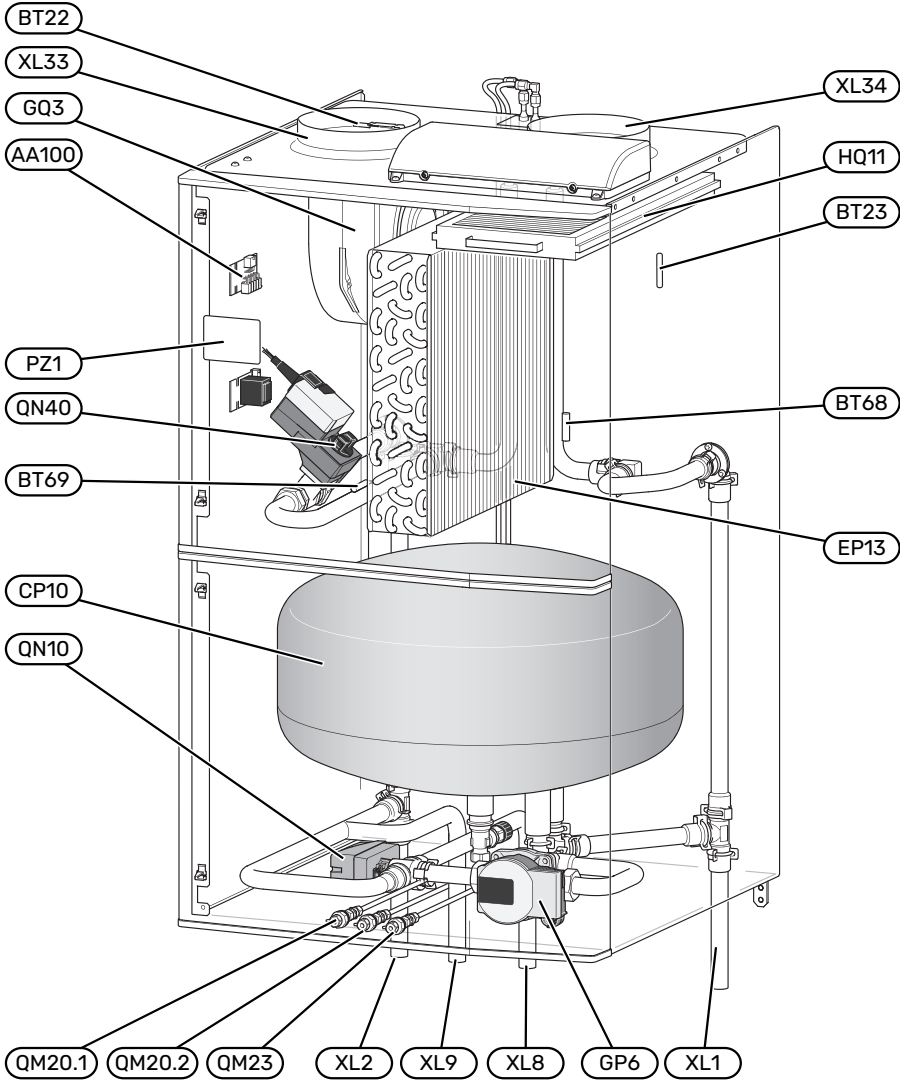
## INSTALLATION OF BASE PLATE

Install the base plate after the heating medium pipes have been connected.

1. Hook on the base plate at the rear edge of SAM S44.
2. Screw the base plate into place using the enclosed screws.



# The design of the supply air module



## Pipe connections

XL1	Connection, heating medium flow line
XL2	Connection, heating medium return line
XL8	Docking connection, supply line (from heat pump)
XL9	Docking connection, return line (to heat pump)
XL33	Ventilation connection, supply air
XL34	Ventilation connection, outdoor air

## HVAC components

CP10	Buffer vessel
GP6	Heating medium pump2
QM20	Venting, heating medium
QM23	Venting, buffer tank
QN10	Shuttle valve, climate system/water heater
QN40	Control valve heating medium

## Sensors etc.

BT22	Temperature sensor, supply air
BT23	Temperature sensor, outdoor air
BT68	Supply temperature sensor
BT69	Return line sensor

## Electrical components

AA5	Accessory card
AA5-S2	Dip switch
AA100	Joint board
SF1	Switch
W101	Cord with connection plug
W102	Communication cable

## Ventilation

EP13	Supply air battery
GQ3	Supply air fan
HQ11	Supply air filter

## Miscellaneous

PZ1	Type plate
-----	------------

Designations according to standard EN 81346-2.












# Pipe and ventilation connections

## General pipe connections

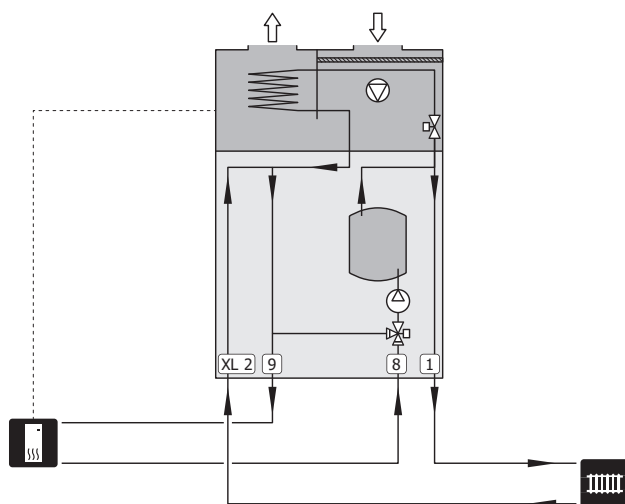
Pipe installation must be carried out in accordance with current norms and directives.

Dimensions and setting-out coordinates can be found at the end of the manual.

### SYMBOL KEY

Symbol	Meaning
	Unit box
	Non-return valve
	Circulation pump
	Fan
	Shut off valve
	Control valve
	Temperature sensor
	Reversing valve/shunt
	Under floor heating systems
	Radiator system
	Heat pump

### SYSTEM DIAGRAM



- XL1 Connection, heating medium flow
- XL2 Connection, heating medium return
- XL8 Docking connection, supply
- XL9 Docking connection, return



### Caution

This is an outline diagram. Actual installations must be planned according to applicable standards.

## Heating medium side

### DIMENSIONING THE SYSTEM

1. Work from the water temperature at DOT (DVOT).
2. Work from the current supply air flow.
3. Work from the desired supply air temperature, then calculate the output that SAM S44 must give at DOT.
4. Determine the water flow across SAM S44 from the correct output diagram.



### NOTE

For supply temperatures that do not appear in any of the diagrams, an estimate (linear interpolation) can be made.

5. Work from the projected pressure drop (at the projected flow) in the waterborne system that is parallel with SAM S44.
6. Check in the pressure drop diagram that the working point is inside the grey working range.
7. Check that the pump capacity from the heat pump is sufficient for both the heating system and SAM S44.

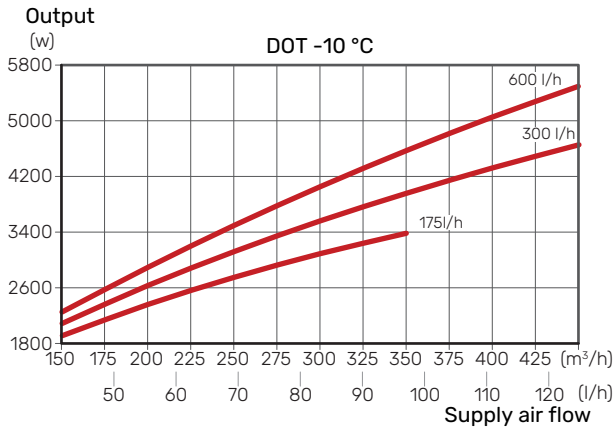


### NOTE

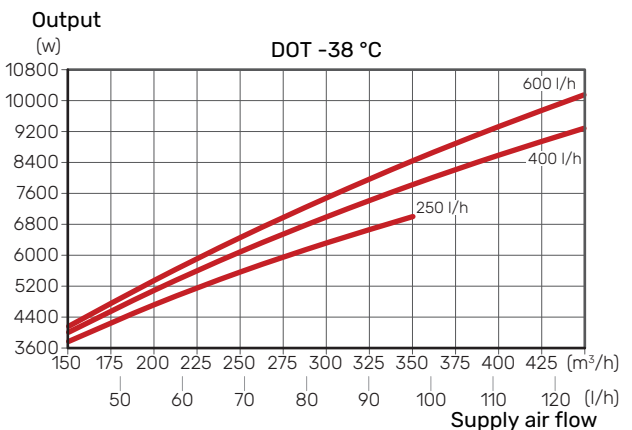
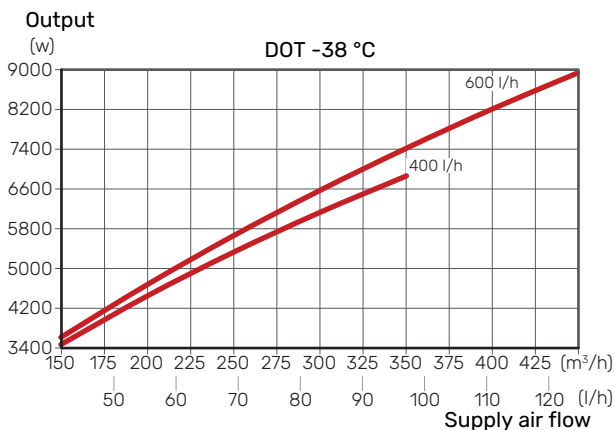
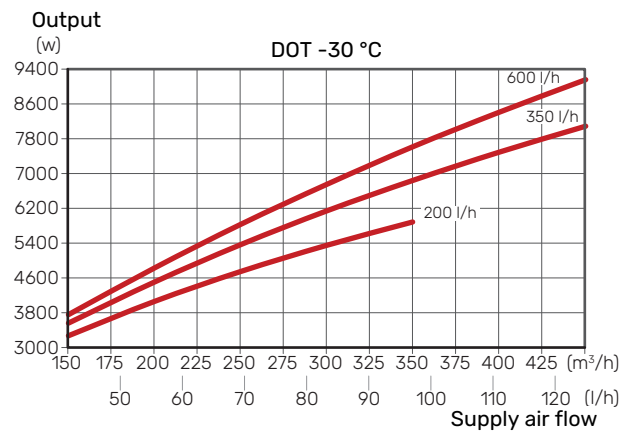
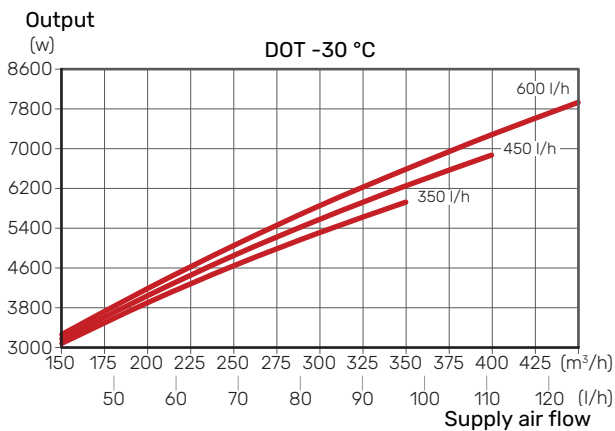
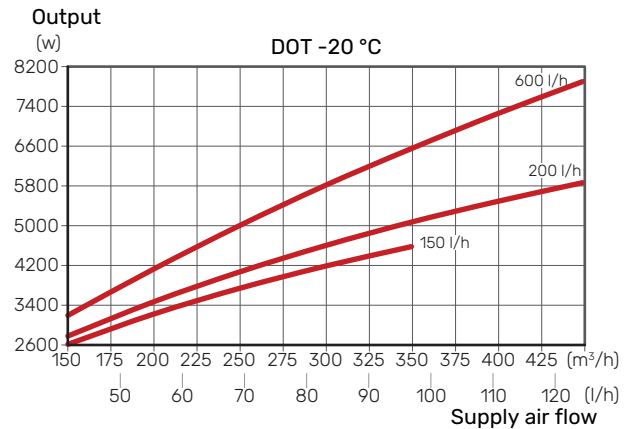
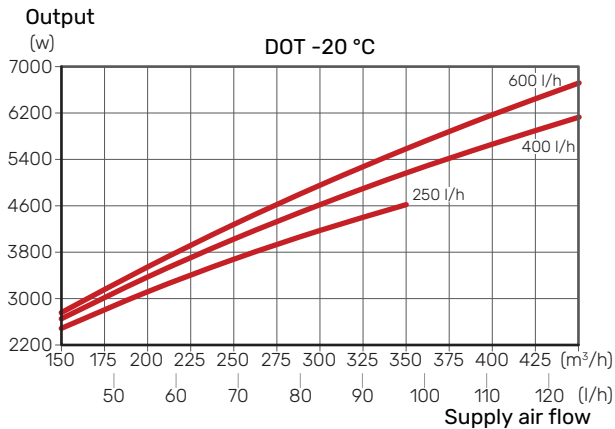
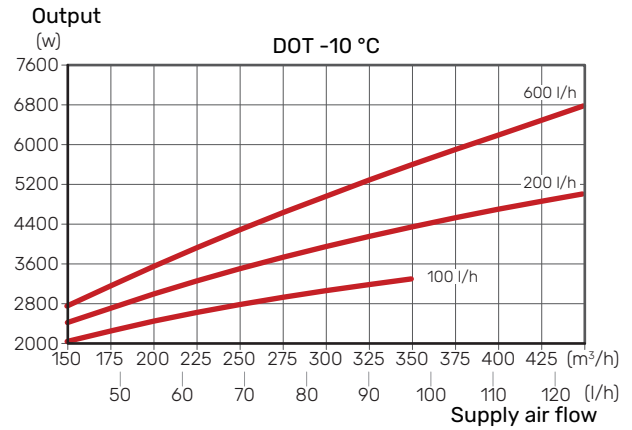
If information regarding the present flow is missing in the diagram there is a risk of frost damage to the supply air coil.

## OUTPUT TRANSFER TO THE SUPPLY AIR

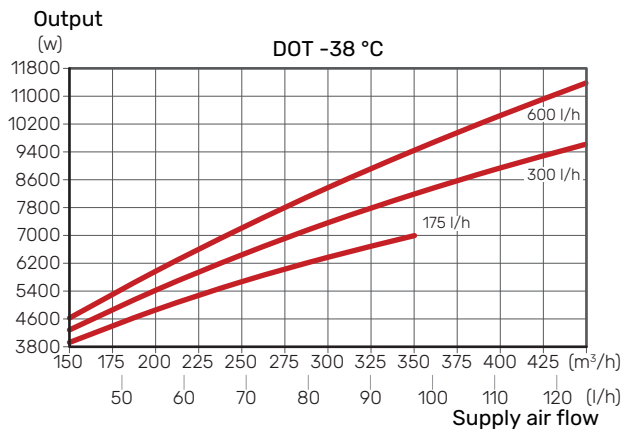
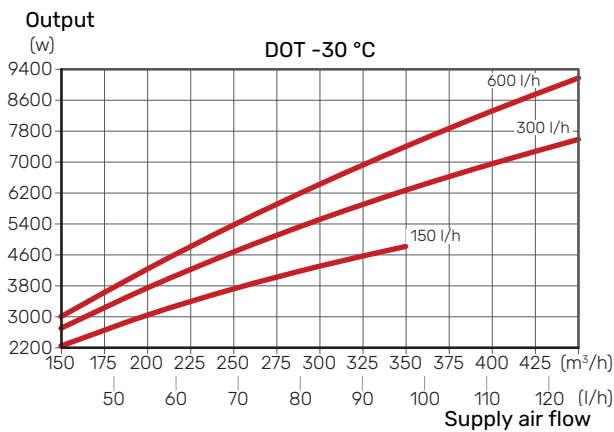
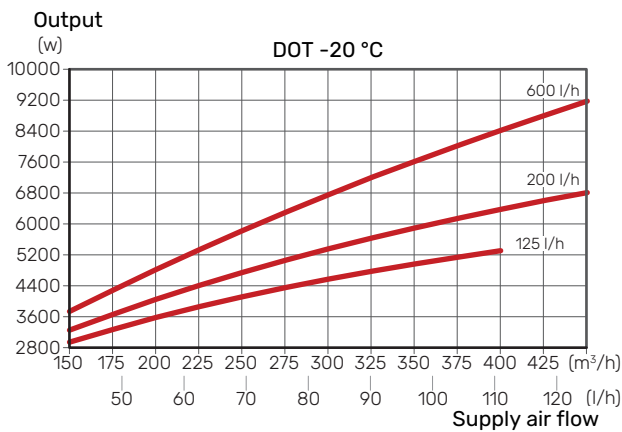
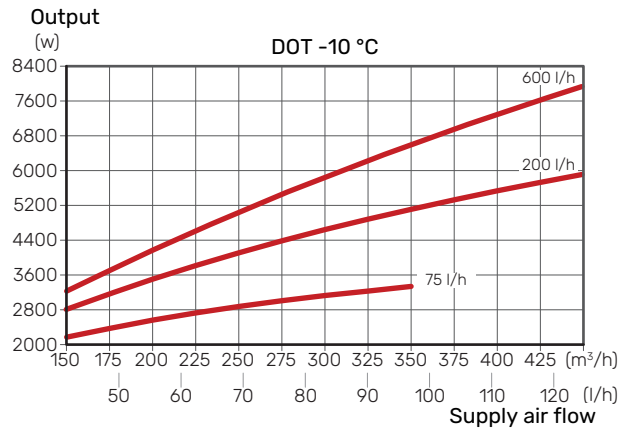
### Supply temperature 35°C



### Supply temperature 45°C

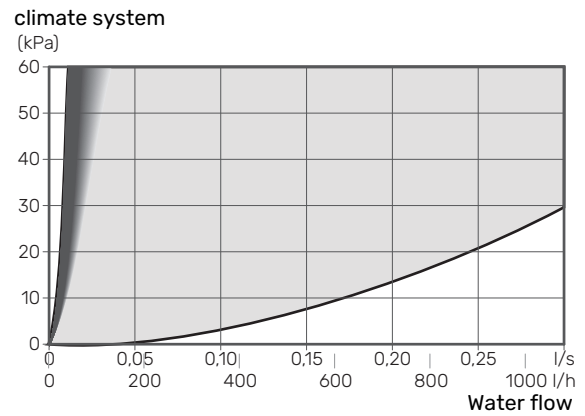


## Supply temperature 55°C



## WORKING RANGE SAM S44

### Recommended pressure drop in the climate system



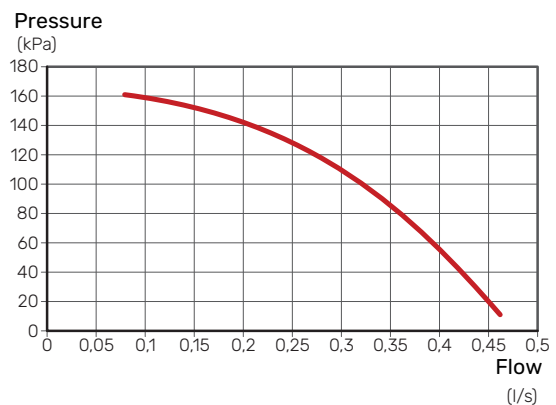
The diagram shows the minimum pressure drop you need in the climate system at a given flow in order to achieve the desired capacity. The pressure drop across SAM S44 is the same as that across the climate system that is parallel with SAM S44.

Check that the working point is inside the grey area. If the working point is inside the dark grey area, to the left in the diagram, it can give rise to an oscillating supply air temperature. If there is too low a pressure drop across the climate system that is parallel with SAM S44, there is a risk of ending up in the white area. In this area, there is a risk of too low a water flow through the supply air module and there is then a risk of freezing.

### CAPACITY, HEATING MEDIUM PUMPS

The heat pump's heating medium pump (EB100-GP1) and the supply air module's heating medium pump (AZ20-GP6) together provide the available pressure shown below.

### Max capacity, heating medium pumps



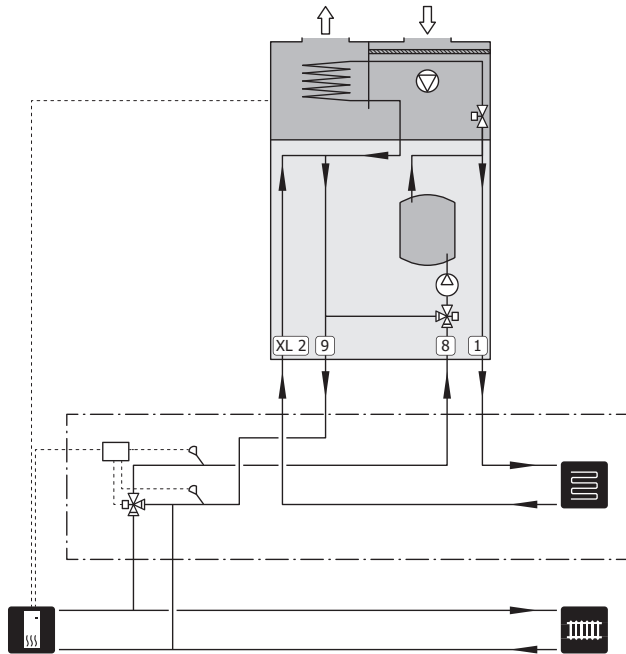
## Installation alternative

SAM S44 can be installed in several different ways, some of which are shown here.

### EXTRA CLIMATE SYSTEM

In buildings with several climate systems that require different supply temperatures, the accessory ECS 40/ECS 41 can be connected.

SAM S44 is connected to the climate system that has the lowest supply temperature.



## General ventilation connection

- Ventilation installation must be carried out in accordance with current norms and directives.
- Connections must be made via flexible hoses, which should be installed so that they are easy to replace.
- Provision must be made for inspection and cleaning of the duct.
- Make sure that there are no reductions of cross-sectional area in the form of creases, tight bends, etc., since this will reduce the ventilation capacity.
- The air duct system must be a minimum of air tightness class B.
- To prevent fan noise being transferred to the ventilation devices, install silencers in suitable locations in the duct system.
- The outdoor air duct must be insulated with diffusion-proof material along its entire length.
- Ensure that the condensation insulation is fully sealed at any joints and/or at lead-in nipples, silencers, roof cowls or similar.
- The air must be routed to the outdoor air duct through an outer wall grille in the facade. The outer wall grille must be installed so that it is protected from the weather and must be designed so that no rainwater and/or snow can penetrate the facade or follow the air into the duct.
- When positioning the outdoor air and extract air hood/grille, bear in mind that the two air flows must not short circuit to prevent the extract air from being drawn into SAM S44 again.
- When external devices that affect the ventilation are used, for example kitchen fans and stoves, the heat pump must be in operation. There is a risk of freezing at low outdoor temperatures.



### NOTE

An external frost protection damper (QN42) must be installed in the outdoor air duct.

- The frost protection damper (QN42) must be dimensioned to seal against the negative pressure that can be created in the house, for example when a fire is lit in the stove when the supply air fan and heat pump are switched off. An external supply air duct to e.g. the stove is recommended.
- It is not permitted to use a duct in a masonry chimney stack for outdoor air.

## Ventilation flow

The supply air flow must be lower than the exhaust air flow to prevent over pressure in the house.

The ventilation capacity is set in the heat pump's menu system (menu 7.1.4 - "Ventilation").

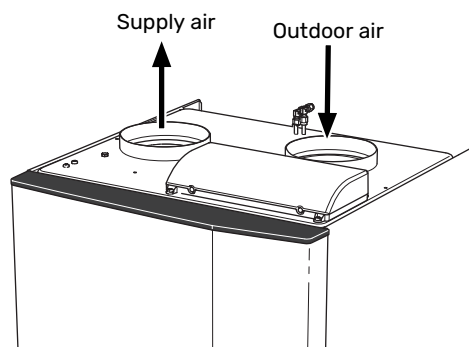
## Adjusting ventilation

To obtain the necessary air exchange in every room of the house, the exhaust air device and the supply air device must be correctly positioned and adjusted and the fans in the heat pump and supply air module adjusted.

Immediately after installation adjust the ventilation so that it is set according to the projected value of the house.

Incorrect adjustment of the ventilation may lead to reduced installation efficiency and thus poorer operating economy, a poorer indoor climate and moisture damage in the building.

## Ventilation connections





# Electrical connections



## NOTE

All electrical connections must be carried out by an authorised electrician.

Electrical installation and wiring must be carried out in accordance with national provisions.

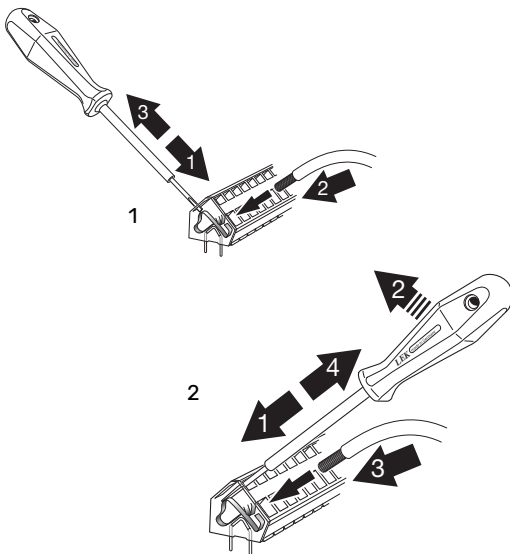
The main product must be disconnected from the power supply when installing SAM S44.

- To prevent interference, sensor cables to external connections must not be laid close to high voltage cables.
- The minimum area of communication and sensor cables to external connections must be 0.5 mm<sup>2</sup> up to 50 m, for example EKKX, LiYY or equivalent.
- SAM S44 restarts after a power failure.

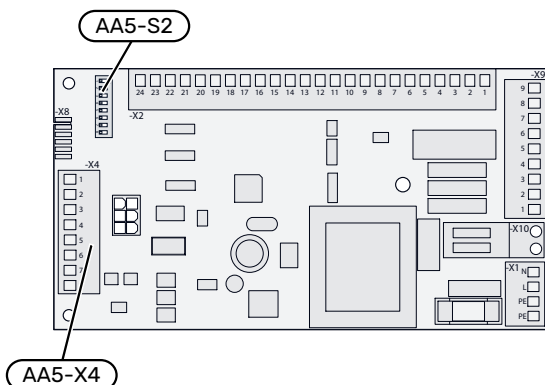
The electrical circuit diagram is at the end of this Installer handbook.

## Cable lock

Use a suitable tool to release/lock cables in terminal blocks.



## Overview accessory board (AA5)



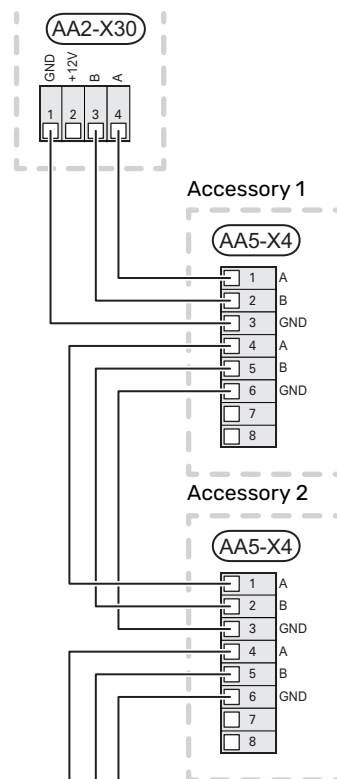
## Connecting communication

SAM S44 contains an accessory board (AA5) that connects directly to the main product's PCB (terminal block AA2-X30).

If several accessories are to be connected, or are already installed, the boards are connected in series.

Because there can be different connections for accessories with accessory board (AA5), you should always read the instructions in the manual for the accessory that is to be installed.

Main product



## Supply

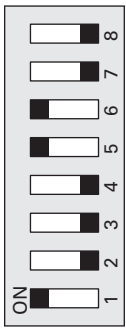
SAM S44 is connected to a earthed single-phase wall socket or a permanent installation. For permanent installations, SAM S44 must be preceded by a circuit breaker with at least a 3 mm breaking gap.

## Connection of external frost protection damper (QN42)

For connection of external frost protection damper (QN42), see the Installer Manual for the main product.

## DIP switch

The DIP-switch (S2) on the accessory board (AA5) is set in the factory as below.



# Commissioning and adjusting

## Preparations

1. Make sure the heat pump is switched off.
2. Check that the filling valves are fully closed.

## Filling and venting

### FILLING THE CLIMATE SYSTEM

Fill with water using the filler valve in the heat pump.

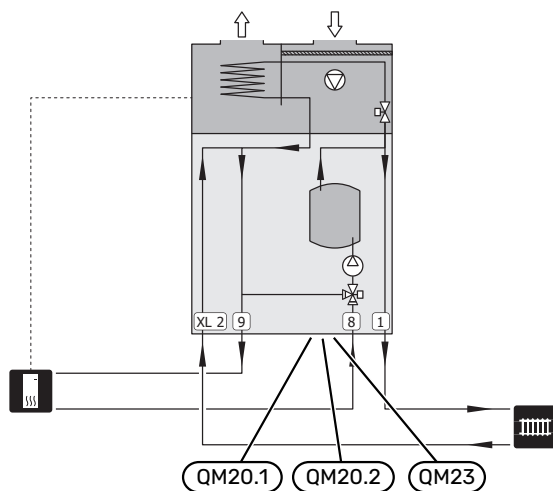
### VENTING THE CLIMATE SYSTEM

1. Vent SAM S44 through the vent valves (QM20.1), (QM20.2), (QM23) and the rest of the climate system through its respective vent valves.
2. Keep topping up and venting until all air has been removed and the pressure is correct.



### Caution

Check that the system has been vented prior to the heating season. Air in the supply air module entails a risk of frost damage in cold weather conditions.



## Start-up and inspection

### STARTING



### NOTE

There must be water in the climate system before SAM S44 is started.

1. Set switch (SF1) on SAM S44 in position "1".
2. Start the heat pump.
3. Follow the instructions in the display's start guide. If the start guide does not start when you start the heat pump, you can start it manually in menu 7.7.

### SETTING THE VENTILATION

Ventilation must be set according to applicable standards. The supply air flow is adjusted to approx. 80% of the exhaust air flow. The setting is made in menu 5.1.6.

Even if ventilation is roughly set at installation it is important that a ventilation adjustment is ordered and permitted.

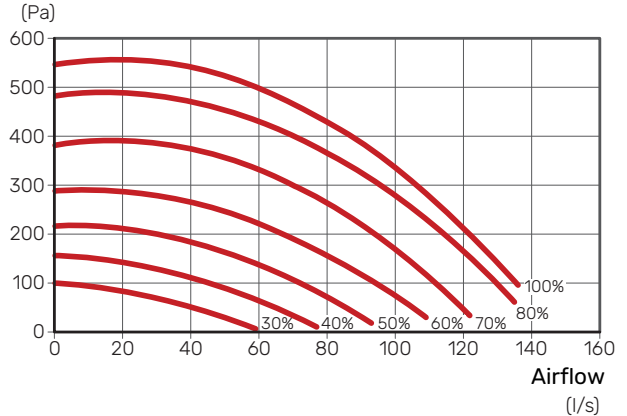


### NOTE

Order a ventilation adjustment to complete the setting.

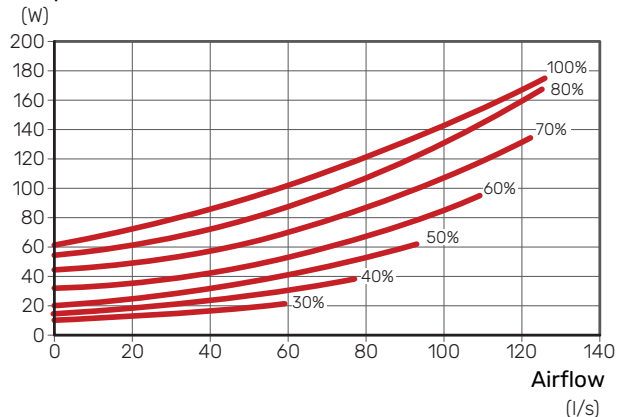
### Ventilation capacity

Available pressure (Pa)



### Fan rating

Output (W)



# Activating SAM S44

Activating SAM S44 can be performed via the start guide or directly in the menu system.

The main product's software must be the latest version.

## Start guide

The start guide appears upon first start-up after heat pump installation, but is also found in menu 7.7.

## Menu system

If you do not make all settings via the start guide or need to change any of the settings, this can be done in the menu system.

### MENU 7.2.1 - ADD/REMOVE ACCESSORIES

Here, you state which accessories are installed for the compatible product.

To identify connected accessories automatically, select "Search for accessories". It is also possible to select accessories manually from the list.

### MENU 7.2.9 - SUPPLY AIR MODULE (SAM)

Supply air temp. at low outdoor temperature

#### Outdoor temperature T1

Setting range: -40 - 20 °C

#### Supply air temperature at T1

Setting range: 16 - 52 °C

Supply air temp. at medium outdoor temperature

#### Outdoor temperature T2

Setting range: -40 - 20 °C

#### Supply air temperature at T2

Setting range: 16 - 52 °C

Supply air temp. at high outdoor temperature

#### Outdoor temperature T3

Setting range: -40 - 20 °C

#### Supply air temperature at T3

Setting range: 16 - 52 °C

Speed contr., heating medium pump dur. heating

#### Manual

Setting range: on/off

#### Max speed, heating medium pump

Setting range: 50 - 100 %

Here, you can set temperatures for different operating conditions and adjust settings for the speed of the circulation pump.

### MENU 7.1.4.2 - FAN SPEED, SUPPLY AIR

#### Fan speed

Normal and Fan speed 1 – Fan speed 4

Setting range: 0 - 100%

Set the speed for the five different selectable speeds for the fan here.



#### Caution

Also see the Installer Manual for the main product.

# Disturbances in comfort

In most cases, the main product notes a malfunction (a malfunction can lead to disturbance in comfort) and indicates this with alarms and shows action instructions in the display.

## Troubleshooting

If the operational interference is not shown in the display the following tips can be used:

### BASIC ACTIONS

Start by checking the following items:

- That the heat pump is operating and the supply cable to SAM S44 is connected.
- Group and main fuses of the accommodation.
- The property's earth circuit breaker.

### LOW HOT WATER TEMPERATURE OR A LACK OF HOT WATER

- The heat pump has temporarily prioritised supply air ventilation to prevent too low temperatures in the supply air coil.

### LOW ROOM TEMPERATURE

- Incorrectly set values for the supply air temperature.
  - Enter menu 7.2.9 - "Supply air module (SAM)" and adjust the setting for the supply air temperature.

### HIGH ROOM TEMPERATURE

- Incorrectly set values for the supply air temperature.
  - Enter menu 7.2.9 - "Supply air module (SAM)" and adjust the setting for the supply air temperature.

### LOW OR A LACK OF VENTILATION

- Supply air filter (HQ11) clogged.
  - Change the filter.
- The ventilation is not adjusted.
  - Order/implement ventilation adjustment.
- Supply air device closed, blocked or throttled down too much.
  - Check the supply air inlets.
- Fan speed in reduced mode.
  - Enter menu 1.2.1 - "Fan speed" and select "Normal"
- External switch for changing the fan speed activated.
  - Check any external switches.
- Check external frost protection (outdoor air damper).

### HIGH OR DISTRACTING VENTILATION

- Supply air filter (HQ11) clogged.
  - Change the filter.

- The ventilation is not adjusted.
  - Order/implement ventilation adjustment.
- Supply air device closed, blocked or throttled down too much.
  - Check the supply air inlets.
- Fan speed in forced mode.
  - Enter menu 1.2.1 - "Fan speed" and select "Normal"
- External switch for changing the fan speed activated.
  - Check any external switches.
- Silencers not correctly installed.
  - Check the silencers.

### LOW SUPPLY AIR TEMPERATURE

- Air in the heating system.
  - Vent SAM S44 using vent valve (QM20.1) and (QM20.2).
- Incorrectly set values for the supply air temperature.
  - Enter menu 7.2.9 (Supply air module (SAM)) and adjust the setting for the supply air temperature.

### HIGH SUPPLY AIR TEMPERATURE

- Incorrectly set values for the supply air temperature.
  - Enter menu 7.2.9 (Supply air module (SAM)) and adjust the setting for the supply air temperature.

# Accessories

Detailed information about the accessories and complete accessories list available at [nibe.eu](http://nibe.eu).

## Top cabinet TOC 40

Top cabinet, which conceals any pipes/ventilation ducts.

### **HEIGHT 245 MM**

Part no. 089 756

### **HEIGHT 345 MM**

Part no. 089 757

### **HEIGHT 445 MM**

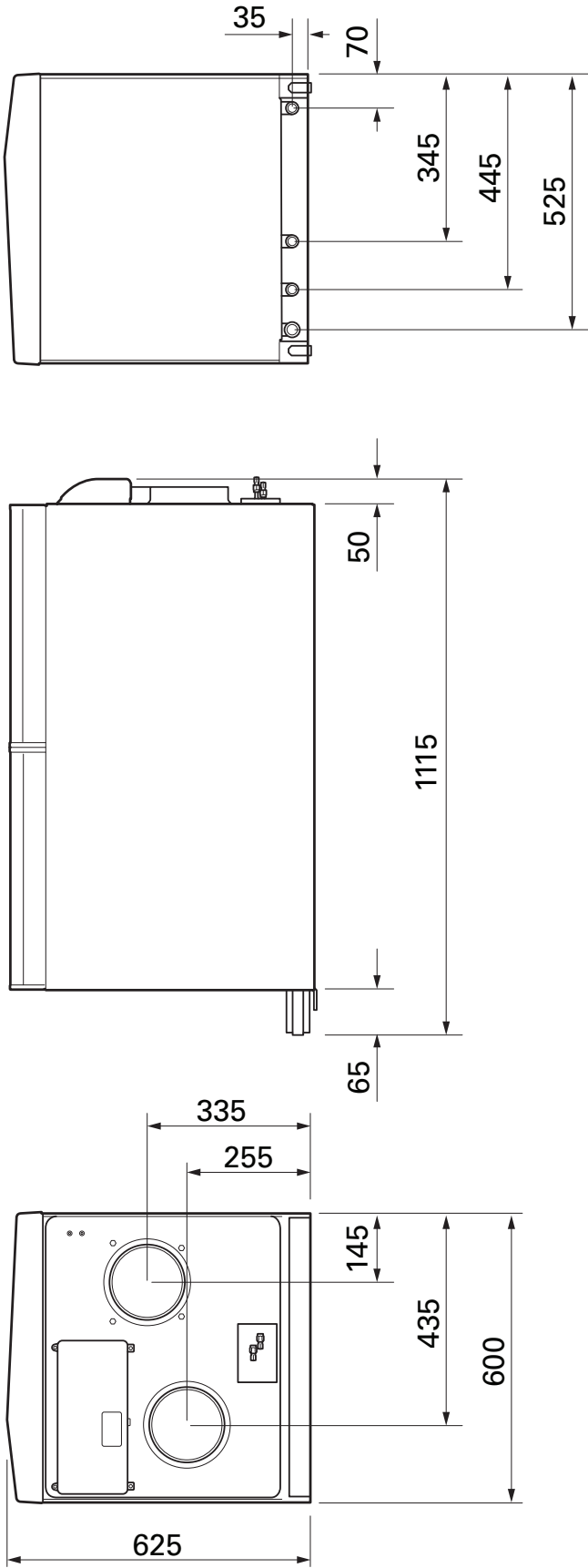
Part no. 067 522

### **HEIGHT 385 - 635 MM**

Part no. 089 758

# Technical data

## Dimensions



# Technical specifications

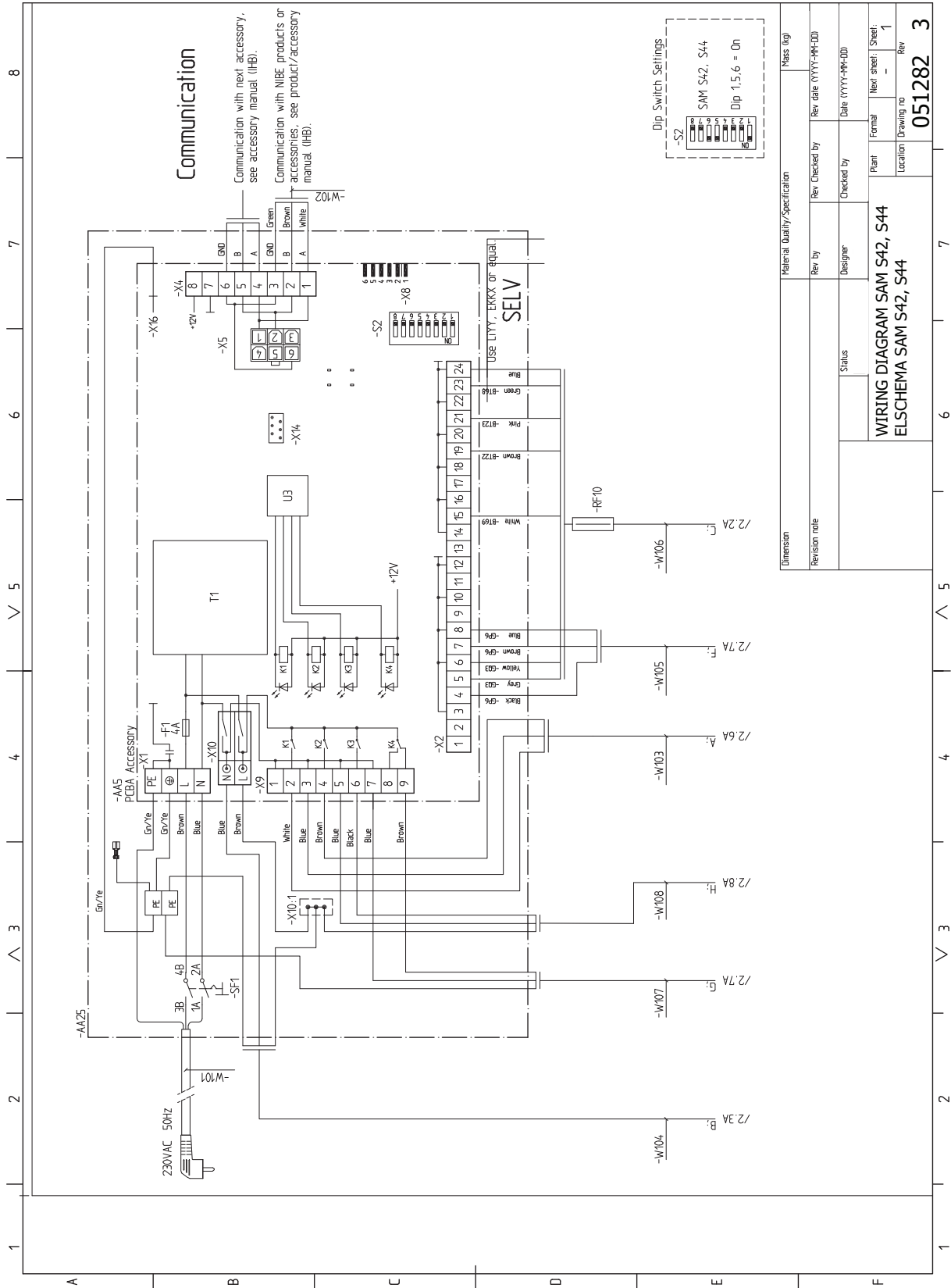
SAM S44		
<b>Electrical data</b>		
Rated voltage	V	230 V – 50 Hz
Drive output control valve	W	1.5
Driving power, reversing valve	W	1.5
Drive output heating medium pump	W	75
Driving power fan	W	20-170
Enclosure class		IP 21
<b>Heating medium circuit</b>		
Min pressure	MPa/bar	0.05 / 0.5
Max pressure	MPa/bar	0.25 / 2.5
Volume, heating section incl. buffer vessel	litre	53
<b>Ventilation</b>		
Filter type		ePM1 55%
<b>Sound effect level according to EN 12 102</b>		
Sound power level ( $L_{W(A)}$ ) <sup>1</sup>	dB(A)	37-48
<b>Sound levels</b>		
Sound pressure level in the installation room ( $L_{P(A)}$ ) <sup>2</sup>	dB(A)	39-44
<b>Pipe connections</b>		
Heating medium ext $\varnothing$	mm	22
Ventilation $\varnothing$	mm	160
<b>Miscellaneous</b>		
Width	mm	600
Depth	mm	625
Height	mm	1,115
Weight	kg	95
Part No.		067 795

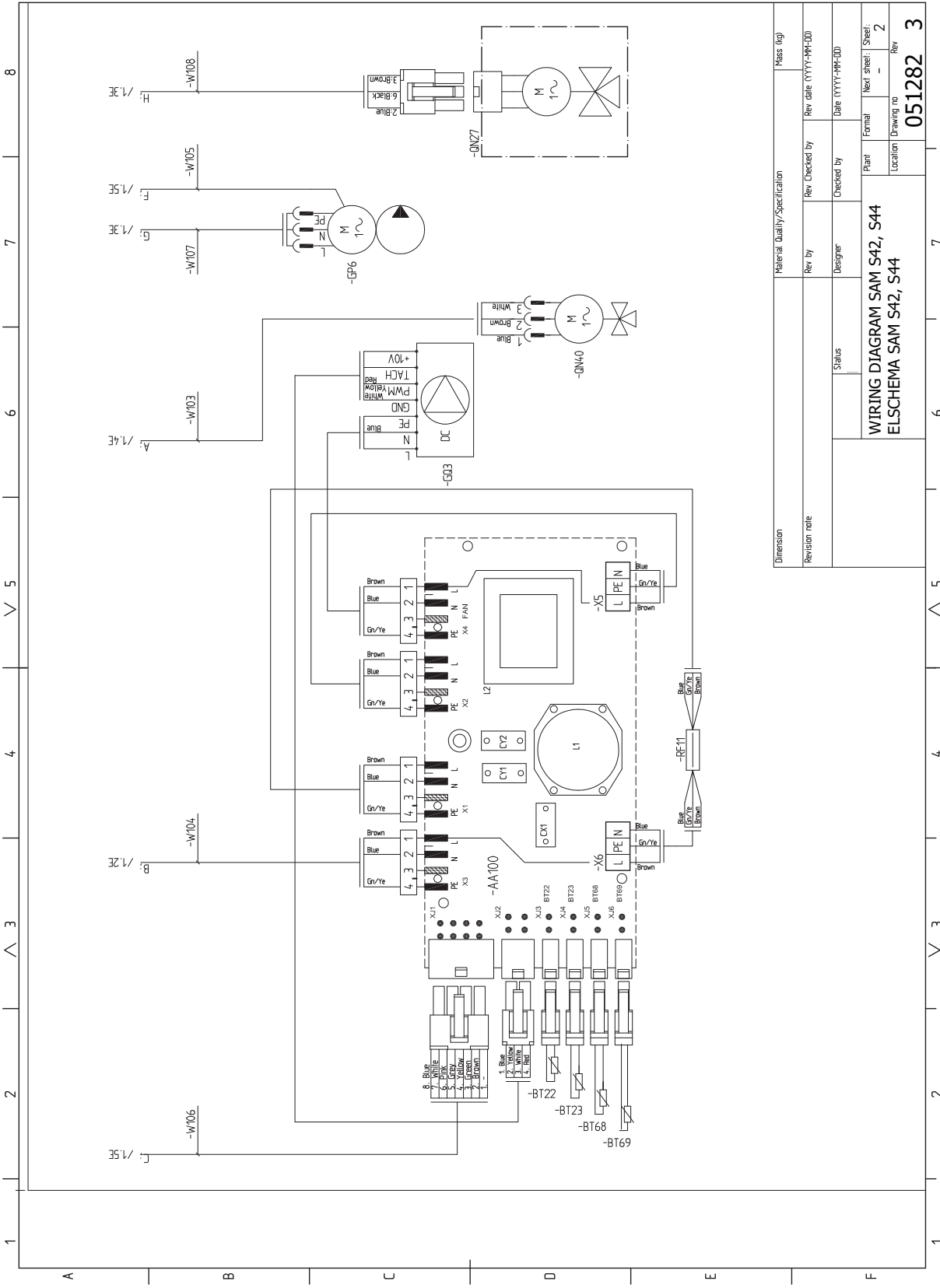
<sup>1</sup> The value varies with the selected fan curve. For more detailed sound data, including sound to channels, visit nibe.eu.

<sup>2</sup> The value can vary with the room's damping capacity. These values apply at a damping of 4 dB.



# Electrical circuit diagram





Material Quality/Specification		Mass (kg)	
Revision note	Rev. by	Rev. Checked by	Rev. date (YYYY-MM-DD)
	Designer	Checked by	Date (YYYY-MM-DD)
Status		Plant	Next sheet
WIRING DIAGRAM SAM S42, S44		Location	Drawing no
ELSCHEMA SAM S42, S44			Rev
			051282
			3

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