

116926EN-10 2022-09



EcoNordic WH4/W4

NSTRUCTIONS TRANSLATED FROM ORIGINAL LANGUAGE

ART NO. 800501, 800502



ASSEMBLY INSTRUCTIONS

Indoor Climate Central



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		. Tank module	
		. Chassis module	
		. Ventilation module	
		. Heat pump module	
11.		Declaration of Conformity for CE marking	





General

Read these instructions carefully before using the unit. Keep the instructions for future use.

1.1. Disclaimer



NB

In order for the warranty to be valid, these instructions must be followed.

FLEXIT's products are subject to ongoing development and we therefore reserve the right to modify components, specifications and the contents of these instructions without prior notice.

FLEXIT is not responsible or bound by warranty if these instructions are not followed during installation, operation or servicing.

FLEXIT guarantees the correct functioning of the unit only with original or specified components.

We are not responsible for any typographical errors that may arise.

1.2. Warranty

The product must be assembled exactly as instructed, otherwise the warranty will not be valid.

1.3. Manufacturer

Flexit AS, Televeien 15, N-1870 Ørje, Norway www.flexit.com

1.4. Service and support

For questions concerning support, contact Flexit.

1.5. Disposal

The product is covered by warranty as stated in the current conditions of sale, provided that the product has been used and maintained correctly. Filters are consumable material.



The symbol on the product indicates that it must not be treated as household waste. Instead, it should be taken to a recycling centre that accepts electrical and electronic equipment. By disposing of the product

correctly, you contribute to preventing the negative consequences to health and the environment that may result from incorrect treatment. For further information concerning the recycling of the product, contact your local authority, recycling centre or place of purchase.

Claims arising from faulty or inadequate installation should be made to the installation company responsible. The warranty may be invalidated by incorrect use or gross negligence in the maintenance of the unit.

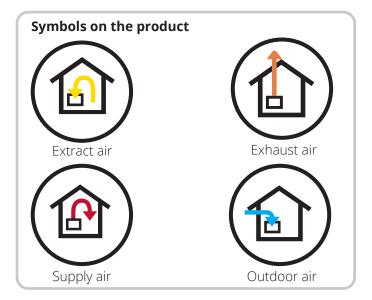
1.6. Validation

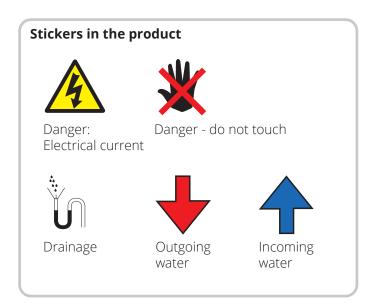
This user manual applies to EcoNordic WH4 and W4.

2. Safety

2.1. Symbols and stickers

A number of symbols are used for these products. They are used both for labelling the product itself and in the installation and user documentation.





2.2. Warnings in the manual

The following types of instruction are used in the user manual.



DANGER

A text field with this colour means that life-threatening or serious injury may result if the instructions are not observed.



CAUTION

A text field with this colour means that poor efficiency or operational problems with the product may result if the instructions are not observed.



WARNING

A text field with this colour means that damage may result if the instructions are not observed.



NB

A text field with this colour means that it contains important information.





2.3. General safety rules

These safety rules must be followed when you use and maintain the system. Failure to follow them may result in injury, death or damage to the equipment.



DANGER

It is the responsibility of the installer to carry out a comprehensive safety and function check of the unit.



DANGER

All electrical connections must be carried out by a qualified electrician.



DANGER

The product must not be used for the extraction of combustible or flammable gases.



WARNING

All pipe installation work must be done by a qualified plumber.



WARNING

The product should be placed in a room with a drain.



WARNING

The incoming water pressure should not exceed 0.45/4.5 MPa/bar. If the water pressure exceeds 0.45/4.5 MPa/bar, a pressure reduction valve (with check valve) must be installed.



CAUTION

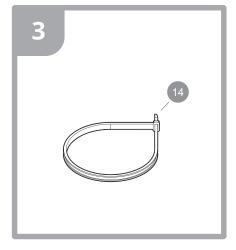
Tumble driers must not be connected to the unit.

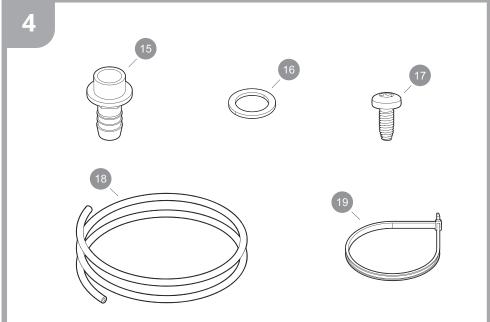


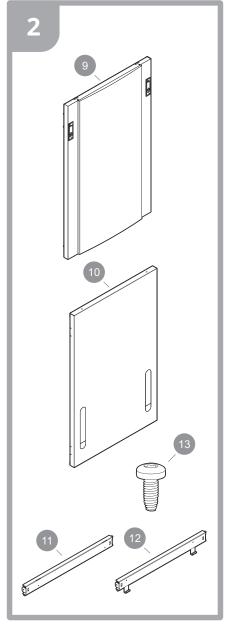


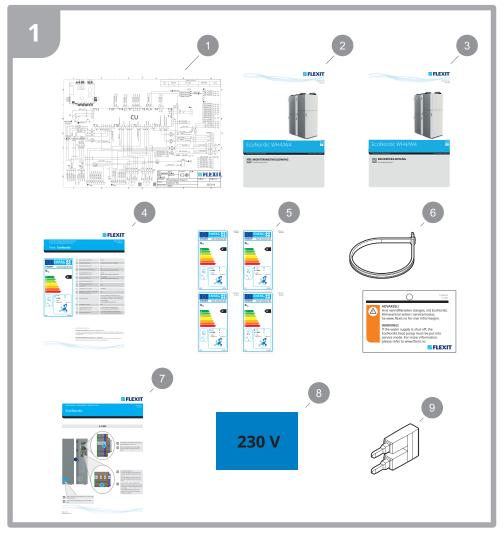
3. Transport

3.1. Components included









3.1.1. Supplied in tank module

Item	Description	Number
1	Circuit diagram, electricity	1
2	Assembly instructions	1
3	User manual	1
4	Eco design document	1
5	Eco design label	1
6	Label with cable tie	1
7	Conversion 3N~400 V-3~230V	1
8	Label 230V	1
9	Jumper	1

3.1.2. Supplied in chassis module

Item	Description	Number
9	Door	1
10	Side wall	1
11	U-profile	3
12	U-profile with door latch	1
13	Self-tapping screw	17

3.1.3. Supplied in ventilation module

Item	Description	Number	
14	Cable tie	4	

3.1.4. Supplied in heat pump module

Item	Description	Number
15	Drainage plug	1
16	Gasket	1
17	Self-tapping screws	5
18	Venting hose	1
19	Cable tie	2





4. Before assembly

4.1. Checklist

Installation not

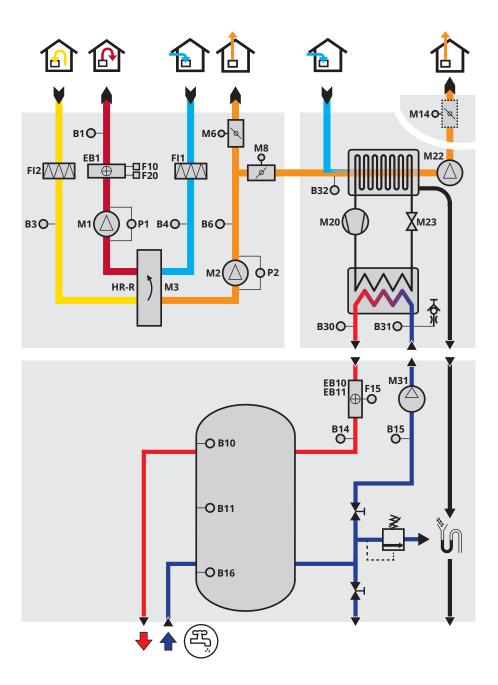
The following list contains the conditions necessary for mounting and installation.
Use the checklist to ensure quality.

For further information, see manual: Planning and preparatory work.

Checklist for installation	
Explanation	Check
Are all modules in place? Tank module, ventilation module, ventilation chassis and heat pump	
Is there sufficient space around the product to allow it to be assembled? See kap.5. Assembly.	
Has the location of all external electrical connections been decided?	
Have all ventilation ducts been laid to the product?	
Has an external damper been fitted to the drainage or outdoor air duct to the heat pump?	
Has cabling for the damper been laid to the product?	
Is there a drain available in the same room as the product?	
If not, is there a drain in an adjacent room that can be used?	
Have you checked with the project manager that all applicable installation requirements have been met?	
Addition for WH4:	
Is there room to install the heating circuit in the product's installation room or on the exterior of the product?	

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4.2. System overview W4

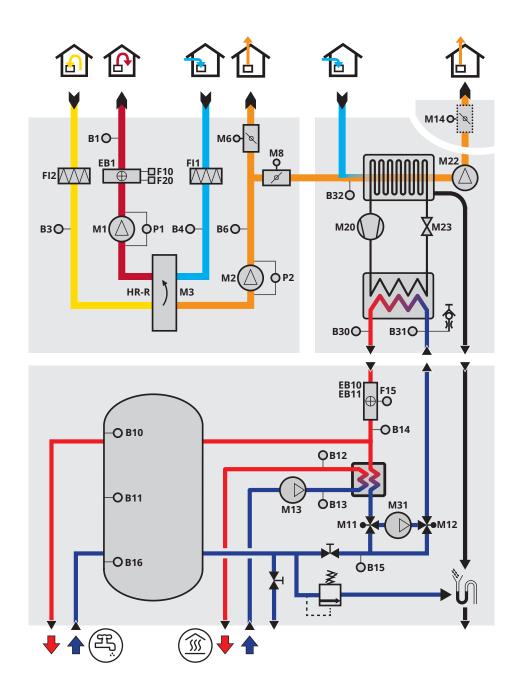


Pos. Beskrivelse	
B1 Temperature sensor, supply air	
B3 Temperature sensor, extract air	
B4 Temperature sensor, outdoor air	
B6 Temperature sensor, exhaust air	
B10 Temperature sensor, upper part of tank	
B11 Temperature sensor, middle of tan	k
B12 (WH4) Temperature sensor, heating system feed	5
B13 (WH4) Temperature sensor, heating system return	5
B14 Temperature sensor, electric heating battery (FTH)	ng
B15 Temperature sensor, from tank to heat pump	
B16 Temperature sensor, lower part of tank	
B30 Temperature sensor, HP water outl	et
B31 Temperature sensor, HP water inle	t
B32 Temperature sensor, HP air inlet	
M1 Supply air fan	
M2 Extract air fan	
M3 Rotor motor	
M6 Exhaust air damper	
M8 Heat pump damper	
M11 (WH4) Regulating valve DHW / heat system	ing
M12 (WH4) Shuttle valve tank / heat pur	np
M13 (WH4) Circulation pump heating system	
M14 Frost protection damper	
M20 Compressor	
M22 Fan HP	
M23 Expansion valve HP	
M31 Circulation pump primary circuit	
F10 Overheating thermostat EB1	
F15 Overheating thermostat electric element (FTH), manual reset	
F20 Overheating thermostat EB1	
EB Heating battery, electric	
EB10/ Water heater, electric EB11	
FI1 Outdoor air filter	
FI2 Extract air filter	
P1 Pressure sensor, supply air	
P2 Pressure sensor, extract air	
HR-R Rotary wheel-type heat exchanger	

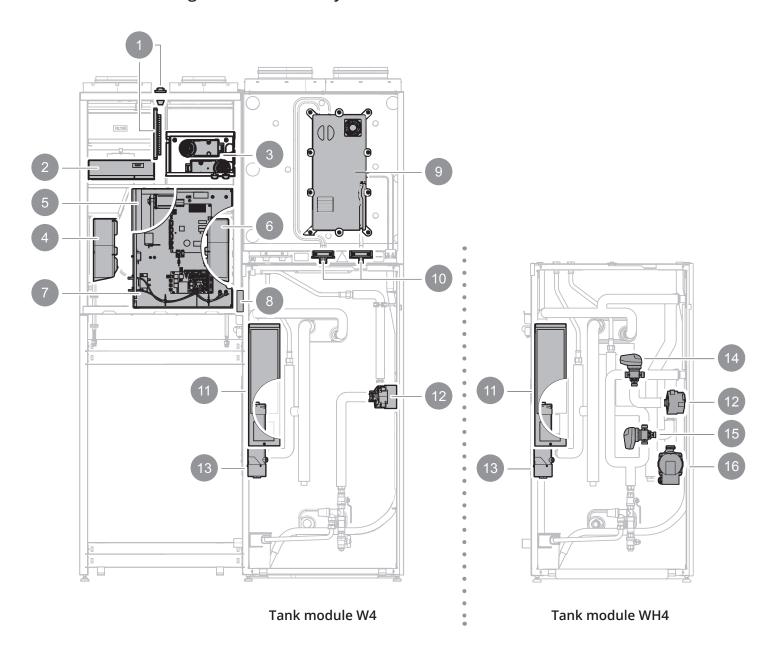




4.3. System overview WH4



4.4. Overview/diagrams for electricity



The unit can be converted for 230 V, 3-phase

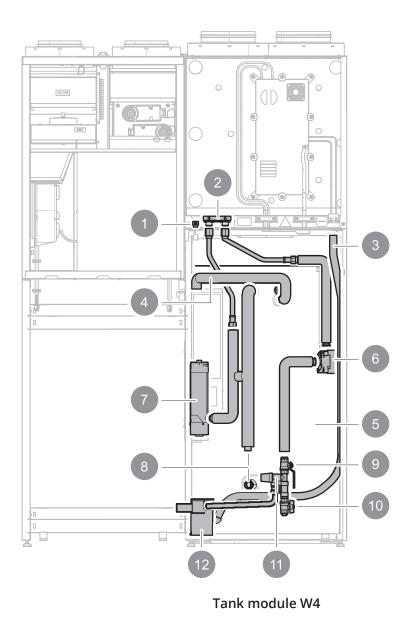
Item	Designation
1	Connection for external control etc.
2	Battery
3	Damper motors
4	Air intake fan
5	Rotor
6	Air outlet fan
7	Control centre for ventilation and water
8	Connection box for module connection

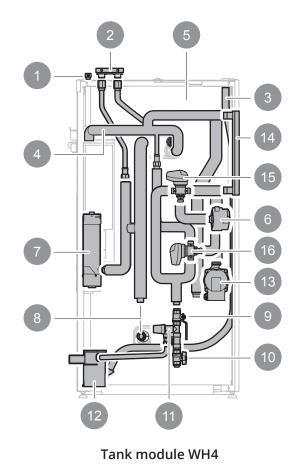
Item	Designation
9	Control unit for heat pump
10	Electrical connections for heat pump
11	Voltage connection / control unit
12	Circulation pump primary circuit
13	Flow through heater
14	Regulating valve DHW / heating system
15	Shuttle valve tank / heat pump
16	Circulation pump heating system





4.5. Overview/diagrams for water

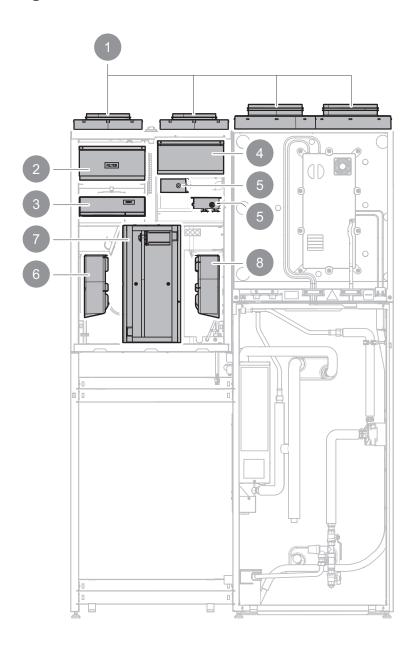




Item	Designation
1	Air extraction
2	Water connection for heat pump
3	Connection for drainage hose
4	Pipe system
5	Hot water tank
6	Circulation pump
7	Electric water heater
8	External water connections

Item	Designation
9	Shut-off valve
10	Draw-off valve
11	Safety valve
12	Drainage cup for draining and safety valve
13	Circulation pump heating system
14	Plate heat exchanger
15	Regulating valve DHW / heating system
16	Shuttle valve tank / heat pump

4.6. Overview/diagrams for ventilation

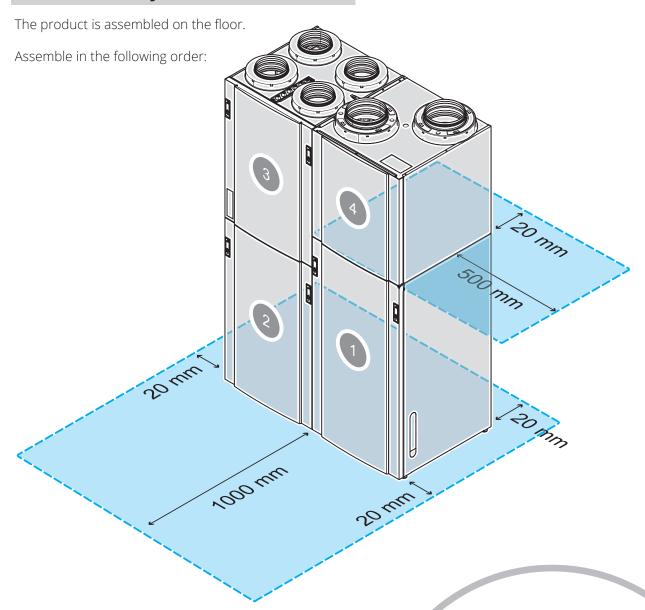


Item	Designation
1	Air connections
2	Extract air filter
3	Post-heating battery
4	Supply air filter
5	Damper
6	Air intake fan
7	Rotor
8	Air outlet fan





5. Assembly



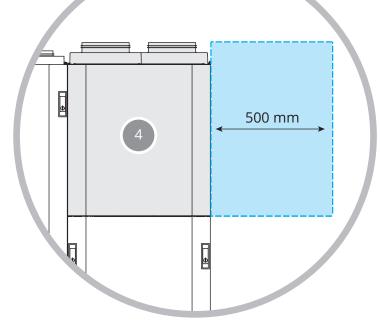
5.1. Space requirements for heat pump



INFO When installing EcoNordic it is important to follow the Flexit installation instructions.

If it becomes necessary to replace the fan, service personnel will require space to carry out the work.

Any additional costs arising from this will not be covered by Flexit.



5.2. Assembly of modules

WARNING

Risk of cuts. Wear protective gloves during assembly.



NB

Before beginning assembly, make sure that the doors on module 1 and module 3 have been removed.

5.2.1. Prerequisites

Number of persons

2

Time

45 min.

Tools

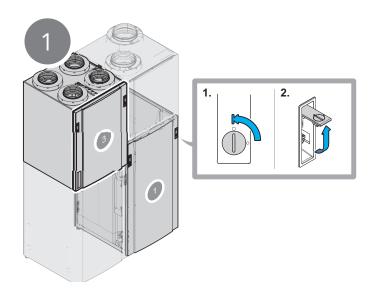
Screwdriver and TX20 bits

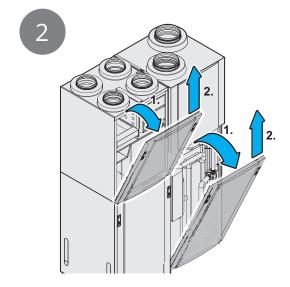
Wrench, 24 mm

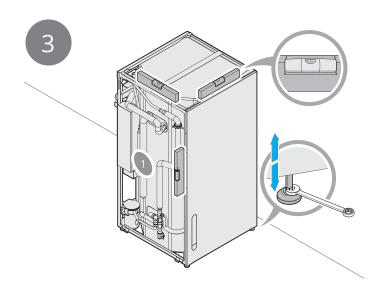
Wrench, 8 mm

Spirit level

5.2.2. Instructions

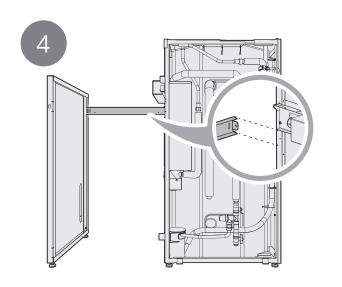


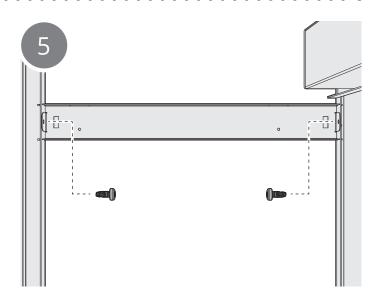


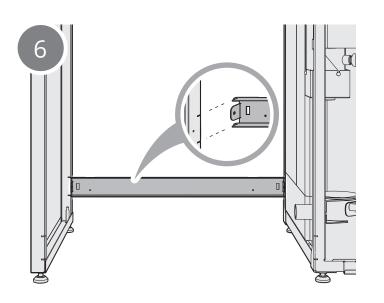


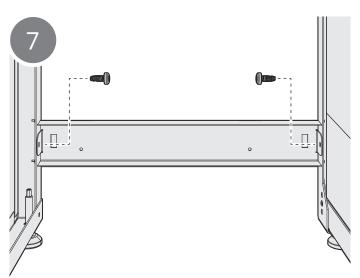


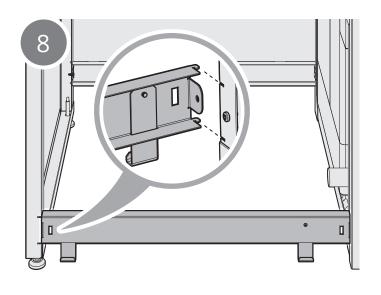
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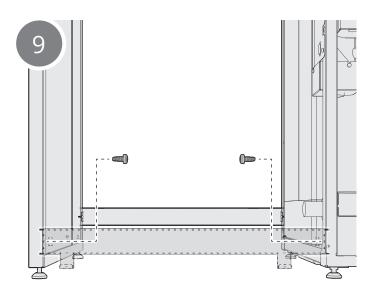


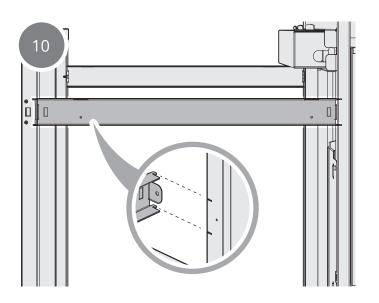


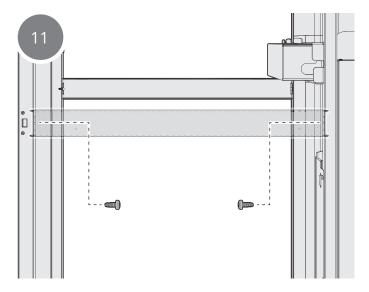


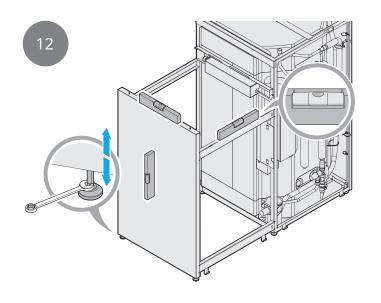


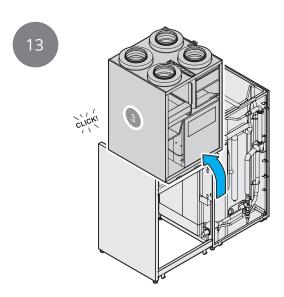


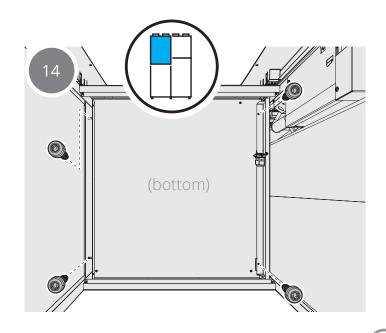


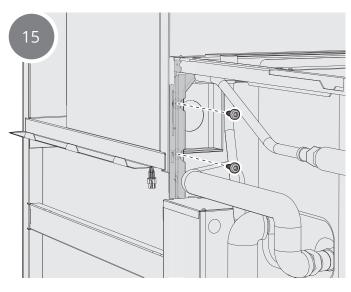






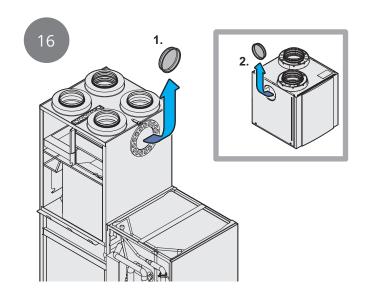


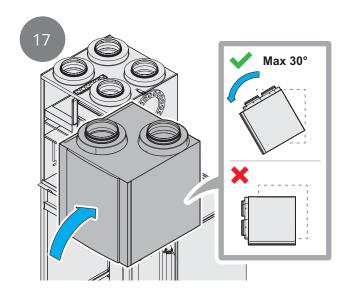


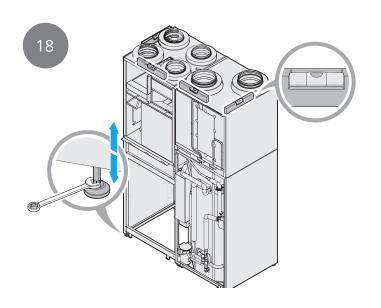


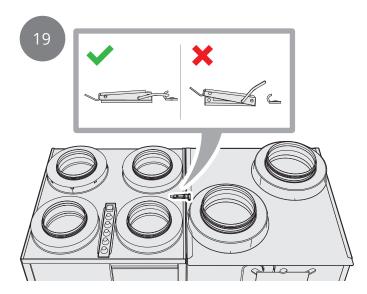


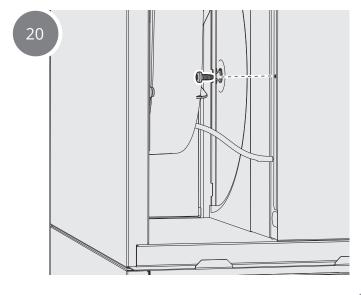
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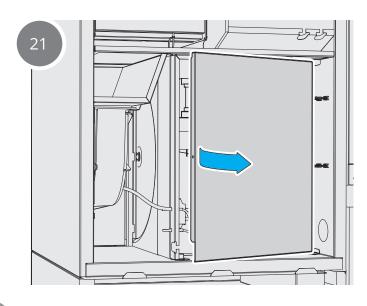


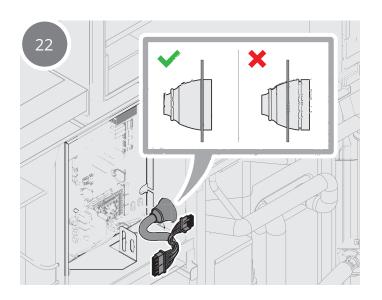


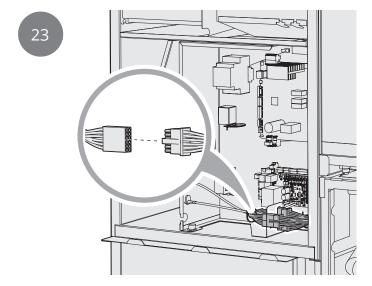


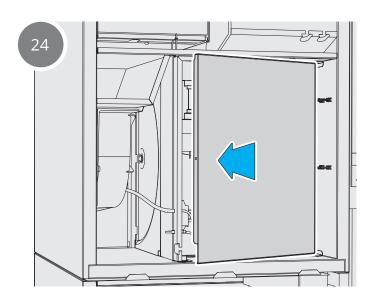


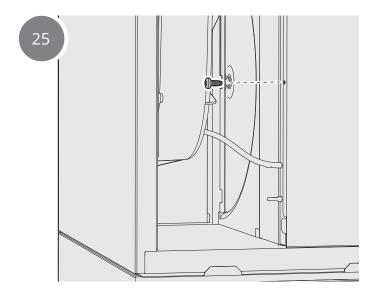


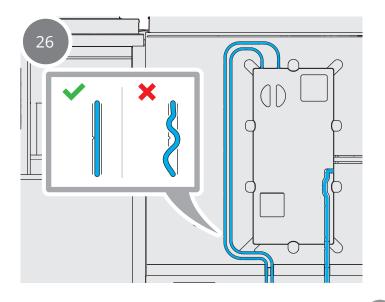


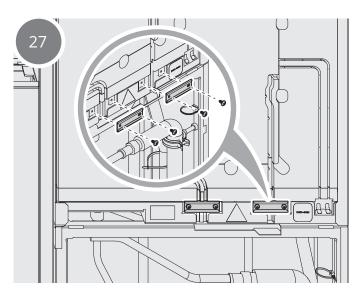






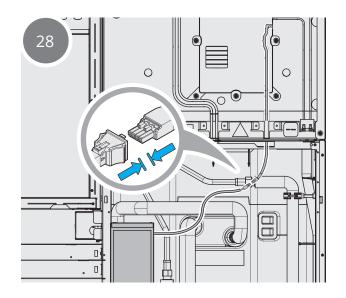


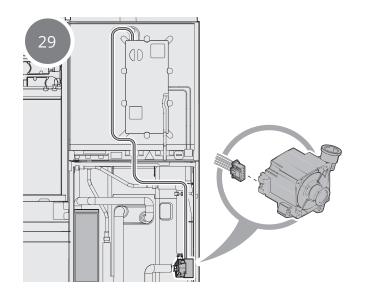


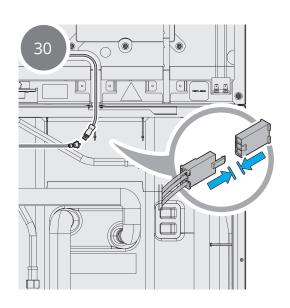


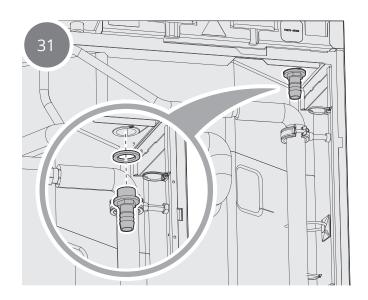


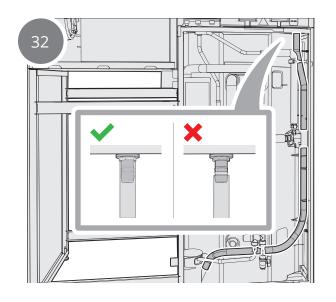
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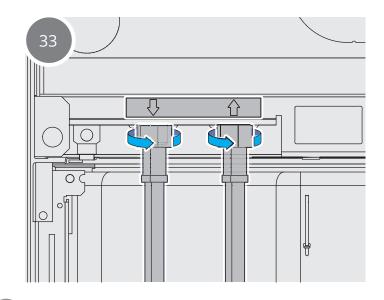


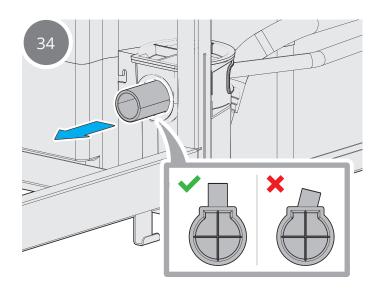


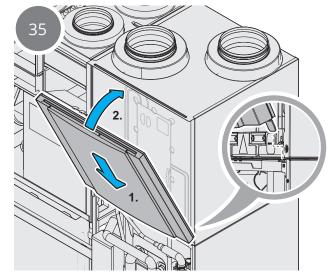


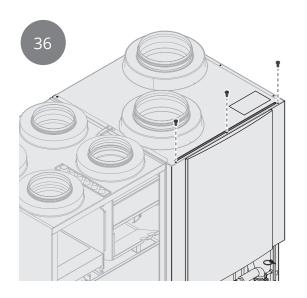


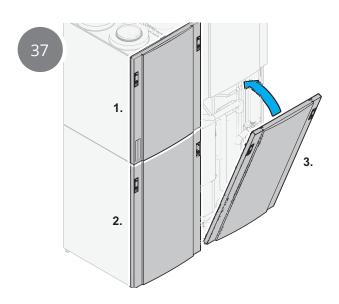


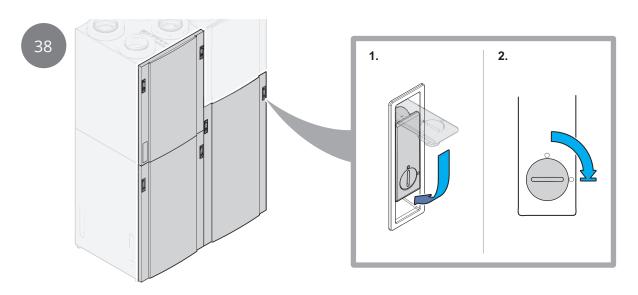














5.3. Assembly of ventilation ducts

CAUTION

Outdoor air to the heat pump and outdoor air to the ventilation must not be connected together.



CAUTION!

With duct enclosures, it must be possible to open or remove the front and right-hand panel.



NB

The exhaust air ducts from the heat pump and ventilation may be connected together.



NB

The exhaust air duct is laid at a slight gradient to the exhaust air hood, so that any water that has entered can run out again.



NB

Silencers should be installed on the main trunk to reduce fan noise to the rest of the duct system.

5.3.1. Prerequisites

Number of persons

1

Time

30 min.

Tools

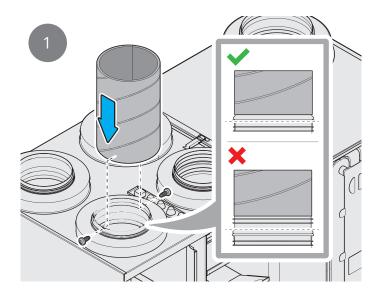
Adhesive tape

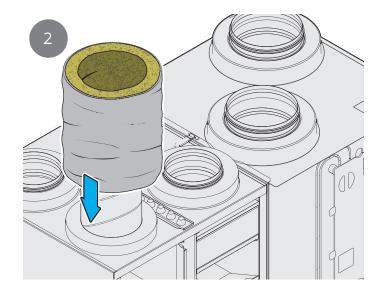
Screwdriver

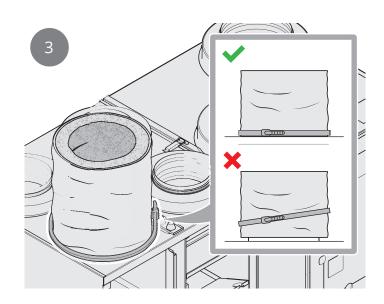
Materials

50 mm insulation with insulation grade equivalent to λ = 0.035 W/m*°C or better

5.3.2. Instructions







5.4. Electrical installation

The product may be converted to 230V~3. The necessary equipment is supplied. See separate conversion instructions and wiring diagram.



DANGER

All electrical connections must be carried out by a qualified electrician.



DANGER

The product should be connected to 400 V, 3-phase+N, 16 A with an earth leakage switch and allpole circuit breaker. Earth leakage switch must be type B.



NB

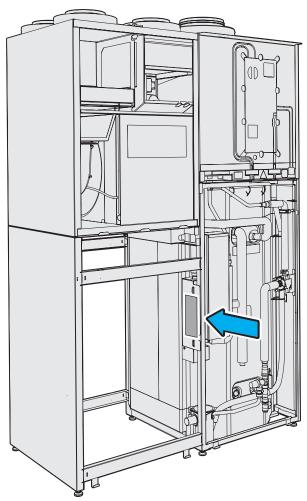
The location should be selected in accordance with national legal requirements concerning electrical safety. Check which regulations apply in your country.



NΒ

The PG nipples for the power cable and control cable must be tightened to at least 2.0 Nm.

5.4.4. Circuit diagram and conversion, electricity



The circuit diagram is on the left-hand side of the tank module.

5.4.1. Before you start

Check that all electrical connections between the modules have been made.

5.4.2. Internet access

The unit should be connected to the internet. A cable duct with at least Ø20 mm for the network cable should be laid between the unit and the home router.

5.4.3. If accessories are used

Lay a Ø16 mm duct between the unit and the intended location of the accessory (kitchen fan, pressure monitor etc.).

See the user manual of the accessory for further information.

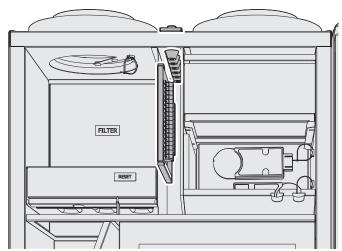




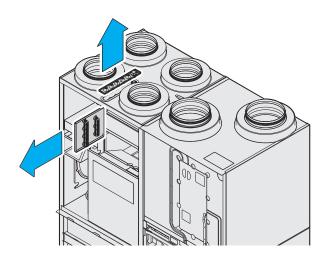
5.4.5. Prerequisites

Number of persons		
1		
Time		
60 min.		
Tools		
Screwdriver		
Descaler		

5.4.6. Control and accessories



Pull out the panel with connection terminals so that the connections are accessible. The panel with seals right at the top may be loosened for easier access.



Connection table

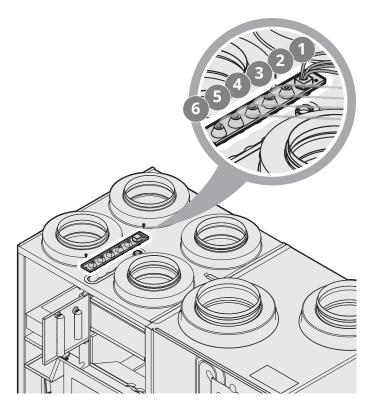
1	X8*	Digital input X8 The following choices are available: None Home Away Emergency stop CO ₂ detector Smoke detector—extract air Smoke detector—supply air Smoke detector—off Smoke detector—max. Fire damper feedback
2	G0	Signal ground
3	Q1 C**	Supply, digital output 1
4	Q1 NO*	Digital output 1 normally open The following choices are available: None Outdoor air damper Fire damper Common alarm/maintenance indication Alarm indication Maintenance indication Operating indication Bypass damper Cooling pump
5	Q2 C**	Supply, digital output 2
6	Q2 NO*	Digital output 2 normally open The following choices are available: None Outdoor air damper Fire damper Common alarm/maintenance indication Alarm indication Maintenance indication Operating indication Bypass damper Cooling pump
7	L (230 V)	L 230 V
8	N (230 V)	N 230V
9	GND	PE
10	M14 C	Frost protection damper, heat pump C (230VAC)
11	M14 NO	Frost protection damper, heat pump NO (230VAC)
12	Cooling	0-10 V Water cooling valve

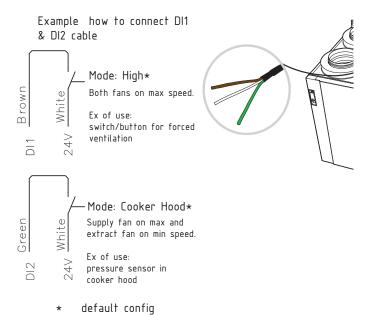
^{*} Inputs/outputs that may have different functions, depending on the configuration selected via Flexit GO. The choice underlined is the default setting.

^{**} Max. voltage 230 V AC, max. current 2 A resistive load.

Location of penetrations for electric cables

	Cable type		
1	Network cable		
	Control panel cable	(CI-70)	
	3-core cable (e.g. for kitchen fan)	(DI1&DI2)	
	Accessory cable	(Accessories)	
2	Spare (accessories)		
3	Spare (accessories)		
4	Spare (accessories)		
5	Spare (accessories)		
6	Spare (accessories)		





1/0	Selection	Comment
Selection for DI1 (input)	None Cooker hood Fireplace *Fire damper feedback High Stop Home Away	This is where to select the function of digital input DI1. The available alternatives are the various ventilation positions. *If you have configured the fire damper, feedback will also be an alternative.
Selection for DI2 (input)	None Cooker hood Fireplace *Fire damper feedback High Stop Home Away	This is where to select the function of digital input DI2. The available alternatives are the various ventilation positions. *If you have configured the fire damper, feedback will also be an alternative.





5.4.7. Connection of a frost protection damper



CAUTION!

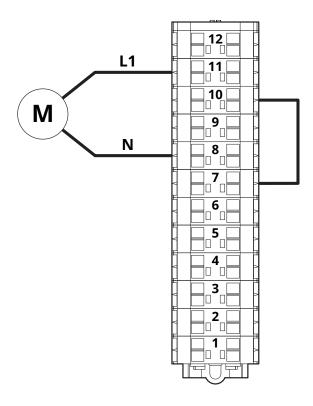
A frost protection damper must be connected to prevent the heat pump's water circuit from freezing in the event of a power cut.

The damper must be a 2-core 230 V damper with mechanical spring returnt o the closed position in dead state. Flexit product 14481 (Ø200) or 14485 (Ø250) can be used.

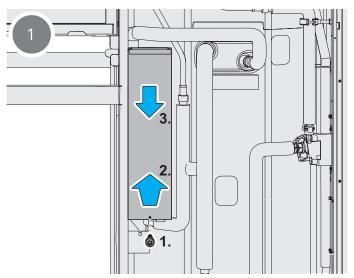
Electrical connection

NB! Remember to bridge between outputs 7 and 10. See the table in section 5.4.6 for a description of inputs and outputs.

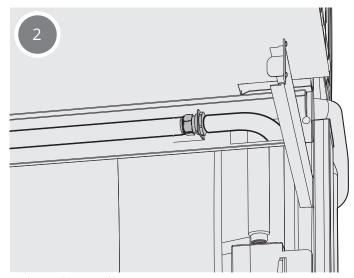
As from ventilation modules with art. no. 800480-000036 & 800481-000168, the bridge is factory-fitted.



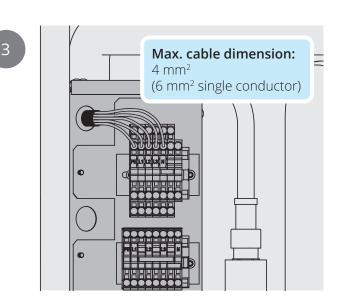
5.4.8. Voltage supply



Loosen the screws to the lid over the electricity box and remove the lid.



Tighten the nipple to 2 Nm.



5.5. Water and pipe work

Piping should be laid, without clamping, in the inner wall adjoining the bedrooms and living room. This is in order to avoid any transmission of noise and vibration.



CAUTION

No soldering is to be carried out on the product's connections.



NB Ensure that a dirt filter is installed in the incoming cold water supply so that no unnecessary particles enter the product.

5.5.1. Domestic Hot Water Recirculation System

The use of extra Domestic Hot Water recirculation pump is not recommended.

5.5.2. Incoming water

The incoming water pressure should not exceed 0.45/4.5 MPa/bar. If the water pressure exceeds 0.45/4.5 MPa/bar a pressure reduction valve (with check valve) must be installed.

Fix the label to the incoming water pipe to ensure that incoming water is not turned off while the product is in operation.



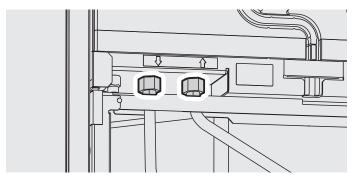
Label

5.5.3. Water quality

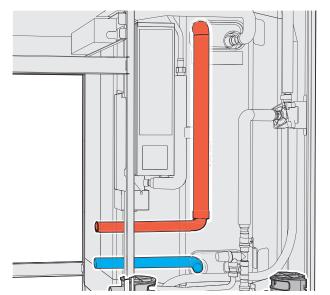
If the drinking water has a higher dH (German hardness) than indicated below, a softening filter must be installed. This is to safeguard the heat pump's function.

pH value:	Min. 7
Calcium content:	Max. 50 mg/l = 7 °dH
Magnesium content:	Max. 10 mg/l
Carbon dioxide (free):	Max. 5 mg/l
Chloride content:	Max. 250 mg/l
Sulphate content:	Max. 250 mg/l
Combined chloride and sulphate content:	Max. 250 mg/l

5.5.4. Water connections



Check the connections to the heat pump. Tightening torque 30 Nm.



Hot water connection Ø22 mm, flat end. Cold water connection G3/4". Normal piping is shown.

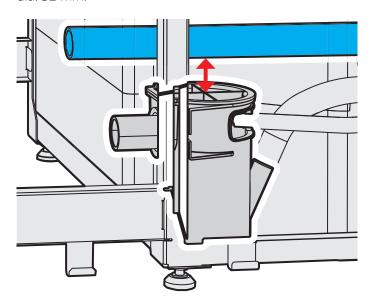




5.5.5. Drainage

Drainage water from the evaporator and safety valve are led via a non-pressurised pipe to the drainage cup and on to the drainage gully. Check that the drain pipe has a downward fall all the way to the floor gully.

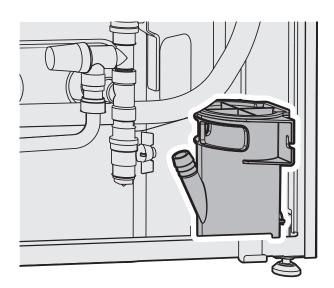
The drainage cup dimension for further connections is dia. 32 mm.





CAUTION!

Make sure there is good access to the drainage cup, allowing this to be cleaned when necessary.



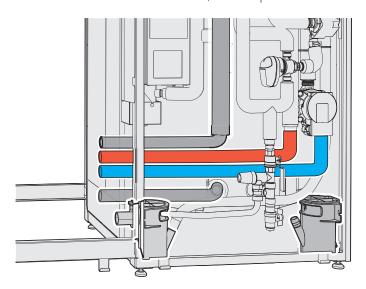
Alternative exit for hot and cold water pipes. Alternative location for drainage cup.

The drainage hose can be cut and moved.

A hole can be made in the side wall where indicated.

5.6. Connecting the heating system WH4

For domestic water connections, see chap. 5.5.4.



G1" connections for heating system. Normal pipe route shown

5.6.1. Installation



CAUTION!

The pipe system must be flushed clean before connecting the heat pump to avoid any contamination in the pipes damaging the components in the product.

A suitable filter must be inserted on the return water side to extend the service life of the components.

5.6.2. Dimensioning



NB

The safety valve must have an opening pressure of max. 0.3/3 MPa/bar and be mounted on the heating medium's return side.

The feed temperature must normally be set between 25°C and 45°C. Check the recommendations for the floors in the specific home.



CAUTION!

Be especially aware of the max. and min. temperatures when making the initial settings, as incorrect values could damage the floor. Check the recommendations for the specific home.

Highest permitted return temperature: 50°C

Water quality

Ordinary tap water may be used in the heating medium circuit

Particularly hard or corrosive water should be avoided.





6. Commissioning

6.1. Prior to commissioning

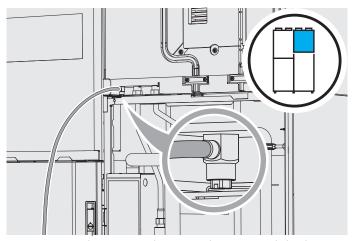


CAUTION!

Prior to commissioning, the following instructions must be followed to avoid damaging the product.

NB! Important points before connecting the product to the power supply.

- 1 All water connections on the primary and heating medium side must be connected as indicated in the previous chapters.
- 2 Tank/primary circuit must be filled with water. Remember to open the cut-off valve when filling the tank. This must always be open when the product is in operation and only closed for servicing the primary circuit. Open a valve during filling to ensure that most of the air is vented from the system.
- 3 Water supply must be opened.



- 4 Connect the venting hose as shown. Lead the hose to a container to avoid water spillage on the product.
- 5 The heating medium circuit (WH4) must be filled before startup.

Electric power may now be applied.

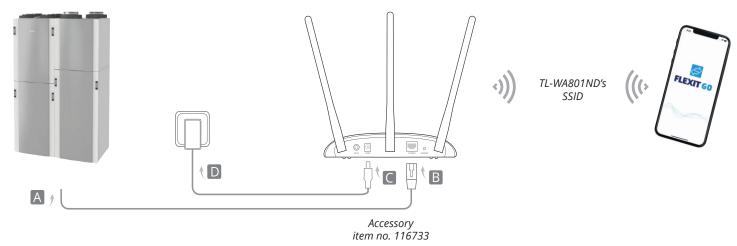
On connecting electric power, the circulation pump in WH4 will start up. Venting of the heating medium circuit may now be completed.

6.2. Connection

Depending on whether or not there is a network available, follow the appropriate instructions below.

6.2.1. No network available

Connect the product to the access point (accessory item no. 116733).

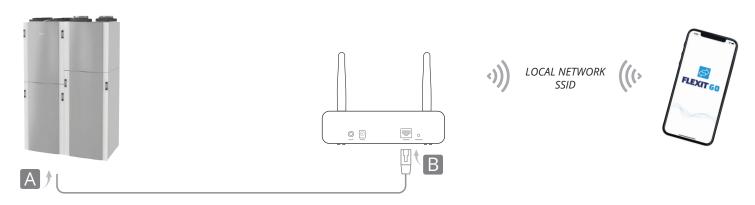


- 1 Connect a network cable from the product to the access point (A to B).
- 2 Connect the mains adapter to the access point (C till D).
- 3 Switch on the access point and wait until the LEDs for current (\circlearrowleft) and wireless (\image) are illuminated continuously.

6.2.2. Network available

If there is a network available, the product can be connected in two ways: with a network cable or with Wi-Fi using accessory item no. 116733.

Connect the product to the home router with a network cable.

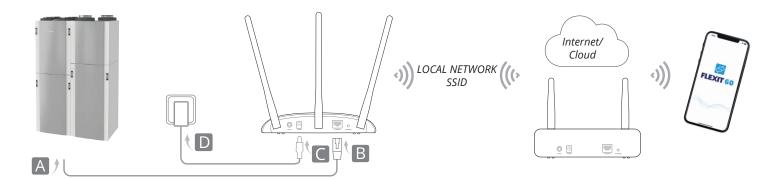


1 Connect a network cable from the product to the home router (A to B).





Connect the product to the home router via Wi-Fi (accessory item no. 116733).



- 1 Connect a network cable from the product to the access point (A to B).
- 2 Connect the mains adapter to the access point (C till D).
- 3 Switch on the access point and wait until the LEDs for current (\bigcirc) and wireless (\bigcirc) are illuminated continuously.
- 4 Connect to the accessory's Wi-Fi network by using a standard SSID and the password (printed on the label of the access point).
- 5 Open a web browser and enter 192.168.0.254
- 6 Log in with **admin** (lower case) as both user name and password.
- 7 Press 'Quick installation' and press 'Next'.
- 8 If you wish, change the login password and press 'Next'.
- 9 Select client mode and press 'Next'.
- 10 Follow the instructions to complete the configuration.

6.3. Connect to the product



NB

The product is commissioned by means of a direct wireless connection between the product and a mobile telephone or tablet with the Flexit GO app installed.

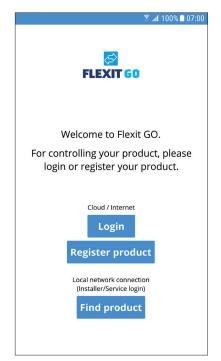
1 Download the Flexit GO application to your mobile device.







- 2 Switch on the product and access point (accessory item no. 116733) if you have not already done so.
- 3 Wait three minutes.
- 4 Go to the mobile device's settings for wireless networks.
- 5 Connect to router or access point.
 If using the access point: Connect to the access point's wireless network. The SSID and password are printed on a label underneath the access point.
- 6 Start Flexit GO on your mobile device.



7 Press 'Find product'.



- 8 Press the unit which you wish to connect to from the list
- 9 Press "Connect"



NB

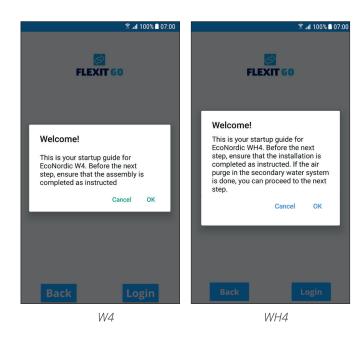
In order for the start-up guide to start, the product must be in configuration mode.







10 Enter the code '1000' to log in as installer.



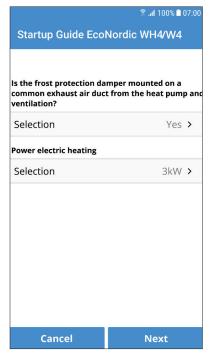
11 If everything is ready for the air purge to start, press 'OK' to open the Start-up Guide. If not, press 'Cancel'.

6.4. Start-up Guide

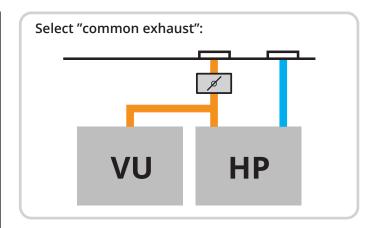


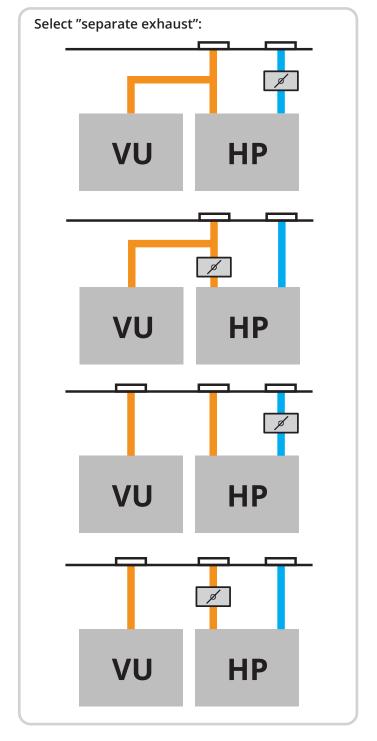
WARNING

If a correct adjustment of the unit is not carried out, its functioning may be affected and cause damage to the building.



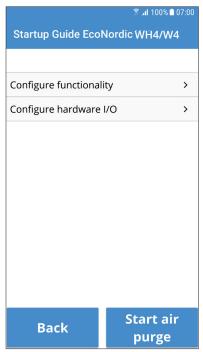
- 1 Select whether the frost protection damper is mounted on a common exhaust duct from the heat pump and ventilation system.
 - 1.1 Press "Select"
 - 1.2 Press "Yes" or "No".
 - 1.3 Press "OK"
- 2 Select between 1 kW or 3 KW electric element:
 - 2.1 Under Electric element output, press "Select".
 - 2.2 Press "1 kW" or "3 kW".
 - 2.3 Press "OK"
 - 2.4 Press "Next"





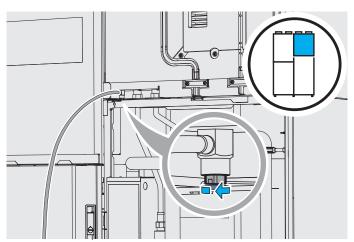






3 Are there any accessories connected which, according to their instructions, require configuration? Yes: press 'Configure functionality'.

No: press 'Start air purge'.



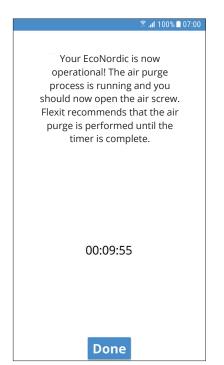
Use a 10 mm spanner to close and open the bleed nipple.



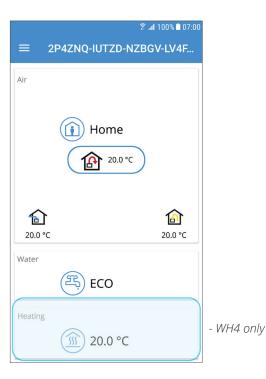
To close, screw to the right.



To open, screw to the left.



- If you think the air purge has finished ahead of time, press "Ready".
- 5 Press "OK" to stop the air purge.

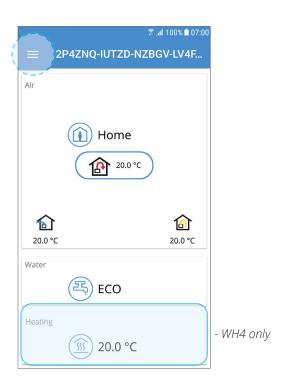


When you have finished the the air purge operation, you will return to the home page.

7. Adjustment

7.1. System differences between Android and iOS

The start screen will look differently depending on whether the mobile unit you are using is for the Android or iOS system. The most important difference is that Android has the menus as an option at the upper left of the start screen, while iOS has menu choice icons at the bottom of the screen.



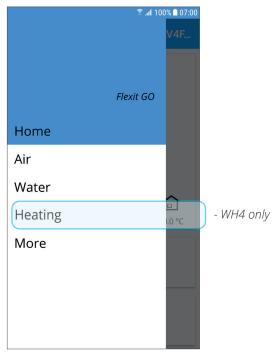


7.2. Initial adjustment, ventilation

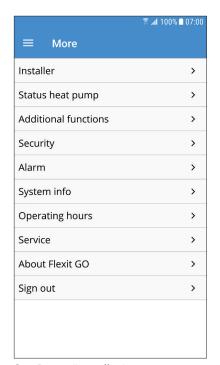


WARNING

If adjustment of the product is not carried out correctly, its functioning may be affected and cause damage to the building.



1 Press the menu selection 'More'.



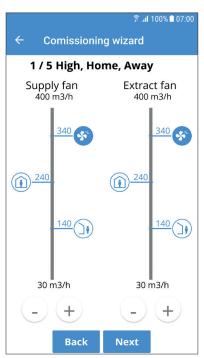
2 Press 'Installer'.



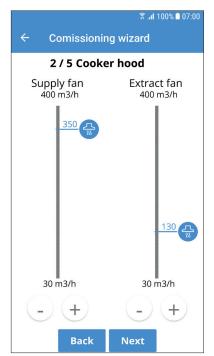




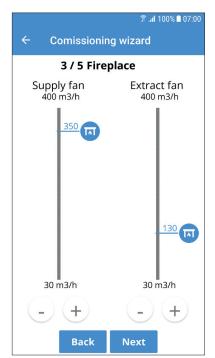
3 Press 'Commissioning'.
Follow the guide and adjust the values as necessary.



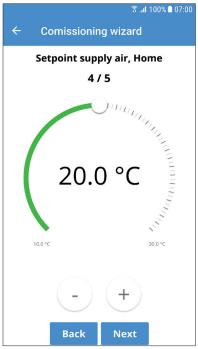
4 Adjust value if necessary. Press 'Next' to continue.



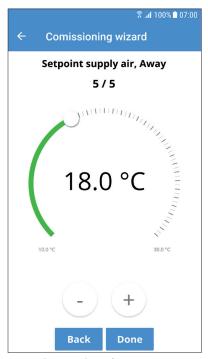
5 Adjust value if necessary. Press 'Next' to continue.



6 Adjust value if necessary. Press 'Next' to continue.



7 Adjust value if necessary. Press 'Next' to continue.



8 Adjust value if necessary. Press 'Done'.



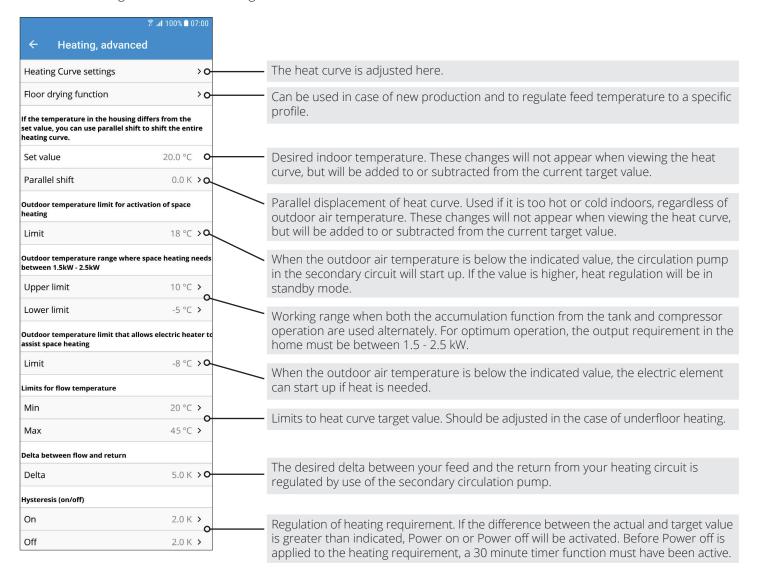
The product is now ready to use.





7.3. Settings, heating

If you wish to adjust the heating settings, go to the main menu \rightarrow "Heating" \rightarrow "Advanced settings"



To adjust the heating curve settings, go to "Heating curve settings".

	ি 📶 100% 🖺 07:00							
← Heating curve								
Here you can adjust the flow temperature for each point in the heating curve								
Outside air: 15 °C	22.1 °C >							
Outside air: 5 °C	27.8 °C >							
Outside air: 0 °C	31.2 °C >							
Outside air: -5 °C	32.6 °C >							
Outside air: -10 °C	34.5 °C >							
Outside air: -20 °C	38.4°C >							
Outside air: -30 °C	41.7 °C >							

8. Final check

Check the following points:

Description	Chapter	Done
Ducts have been insulated in accordance with instructions and technical documentation	3	
Ducts have been connected with the correct nipples.	8	
There is an inspection hatch for enclosed ducts and electrical connection	-	
Water supply and outgoing hot water have been connected correctly and in accordance with legal requirements	-	
The drainage outlet has been connected to the drain	-	
The pipe circuit, water connections and drainage are leak-free	-	
Label fixed to incoming water pipe	5	
All electrical connections for voltage, control and any accessories are connected correctly and in accordance with legal requirements	-	
Assembly and installation have been carried out in accordance with the instructions	-	
Adjustment has been carried out in accordance with instructions and design documentation	-	
The unit operates normally at every stage	-	
The product produces hot water	-	
The property owner has been instructed in, and informed about, the basic functions of the product	-	
The doors are closed and the door locks turned to the horizontal position	-	
(WH4) The product is producing heat and maintaining delta as shown	-	





9. Technical data

		W4			WH4		
			400 V~3N		400 V~3N		
PERFORMANCE	Tap water profile (EN 16147)		XL	XL			
	COP, tap water (EN 16147)		3.2	3.2			
	Outgoing compressor capacity		3 kW	up to 4 kW			
	Sound level (EN 12102)		52 dB(A)	52 dB(A)			
	IP code		IP21	IP21			
	Max. air quantity		370 m ³ /h @ 100 Pa	370 m³/h @ 100 Pa			
	Operating point		240 m³/h @ 100 Pa		240 m³/h @ 100 Pa		
	SFP		1,5 @ 240 m³/h	1,5 @ 240 m³/h			
	Component efficiency		84 %	84 %			
	Temperature efficiency		90 % <	90 % <			
	SCOP (EN 14825)			3,08			
CURRENT	Rated voltage		400 V~3N		400 V~3N		
	Continuous flow through heater, capacity		3 kW (1 kW)		3 kW (1 kW)		
	Fuse size		3x16 A (3x10 A)	3x16 A (3x10 A)			
	Total rated current		14.3 A (10,0 A)		14.3 A (10.0 A)		
	Total rated power		6.4 kW (4.4 kW)		6.4 kW (4.4 kW)		
VENTILATION	Fan type		B-wheel		B-wheel		
72.7.12.7.10.7.	Fan motor control		0-10 V	0-10 V			
	Fan speed		3,750 rpm, max.		3,750 rpm, max.		
	Control system, standard		Flexit GO	Flexit GO			
	Filter type (IN/OUT)	ePM1 55% (F7)		ePM1 55% (F7)			
	Duct connection		Dia. 160 mm		Dia. 160 mm		
HOT WATER	Heater volume		197 L		197 L		
TIOT WATER	Nominal operating pressure		0.45/4.5 MPa/bar	0.45/4.5 MPa/bar			
	Max. operating pressure		0.7/7 MPa/bar	0.43/4.3 MFa/bar			
	Water temperature	5.	5–65°C (Legionella: 75°C)		5–65°C (Legionella: 75°C)		
	Minimum distance to combustible surfaces	3	no requirement	3	no requirement		
HEAT PUMP			· ·				
HEAT POWP	Refrigerant GWP		CO ₂ (0.5 kg)		CO ₂ (0.5 kg)		
	Duct connection		Dia. 200 mm		Dia. 200 mm		
	Max operating pressure		14/140 MPa/bar	14/140 MPa/bar			
	Outdoor air temperature		Min25°C	Min25°C			
	Inverter control		Yes		Yes		
DIMENSIONS	Height		1,900 mm		1,900 mm		
CNOICNILIANIC	Width		1,198 mm		1,198 mm		
	Depth		650 mm		650 mm		
AUFICLIT							
WEIGHT	Total, excluding water	CEL	232 kg	74.1	238 kg		
	Tank module	65 kg	59 kg (weight without door)	71 kg	65 kg (weight without door)		
	Ventilation module	84 kg	76 kg (weight without door)	84 kg	76 kg (weight without door)		
	Heat pump	71 kg	65 kg (weight without door)	71 kg	65 kg (weight without door)		
	Ventilation chassis		12 kg		12 kg		
NSTALLATION	Position	Te	echnical room/cupboard	T∈	echnical room/cupboard		
	Room temperature		Min. 3°C	Min. 3°C			

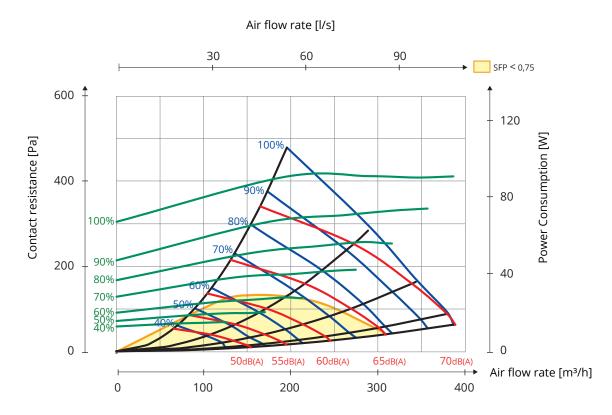
Energy class:



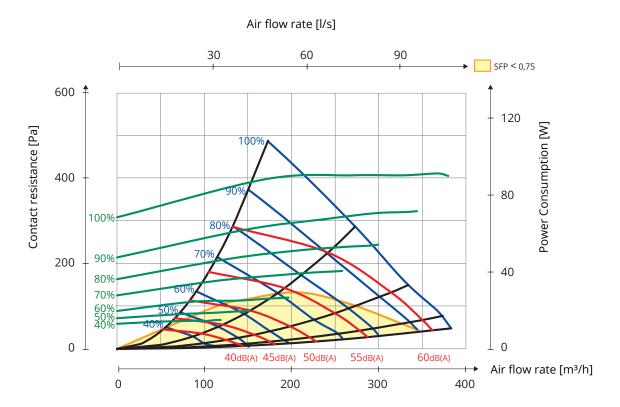
(average climatic conditions)

9.1. Air capacity and sound data

9.1.1. Air intake side



9.1.2. Air outlet side







Explanation of diagram:

Sound data is specified as sound power level LwA in the capacity diagrams. (This is sound to duct.)

These values can be corrected by means of the table for the different octave bands in order to look at Lw (without adaptation to A band).

The correction table for the various octaves is stated in Lw, which means that the Lw values are after conversion of each octave for supply air and extract air.

Radiated sound from the unit must be calculated from the supply air diagram.

Data for supply air is measured in accordance with ISO 5136, the "In-duct method".

Radiated noise is measured in accordance with ISO 9614-2. Bruel & Kjær measuring equipment, type 2260.

9.1.3. Correction factor for Lw

Hz	63 Lw(dB)	125 Lw(dB)	250 Lw(dB)	500 Lw(dB)	1000 Lw(dB)	2000 Lw(dB)	4000 Lw(dB)	8000 Lw(dB)	LwA (dBA)
Supply air	5	3	2	-2	-12	-9	-15	-20	
Extract air	5	3	2	-2	-12	-9	-15	-20	
Radiated sound	-31	-19	-14	-15	-16	-20	-26	-35	-12

Working point 240 m³/h against100 Pa.

> EXAMPLE 1

Sound to duct in the various octaves is stated in Lw

The working point gives 60 dBA from the capacity diagram for supply air. I am interested in what this is specifically in the 250 Hz range.

(sound power level without adaptation to the ear's A band)

> EXAMPLE 2

Radiated sound in Lw per octave

point is taken from the supply air capacity diagram (which indicates sound to duct) in order to arrive at a subsequent Lw value for the various octaves, a deduction is then made

60 dBA-15 (for 500 Hz) = 45 dB, which radiated sound from the unit in this

> EXAMPLE 3

Radiated sound in total from the unit in LwA

At the bottom right of the table, a total value for radiated sound from the unit is stated in LwA. This is an aggregate

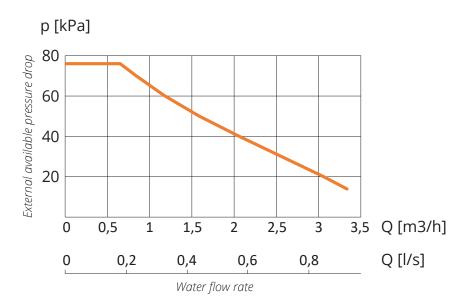
for the different octaves have been

This is used as follows:

The LwA value is read from the supply air capacity diagram, in our example 60 dBA, and this is then subtracted from the total value (this is also an LwA value).

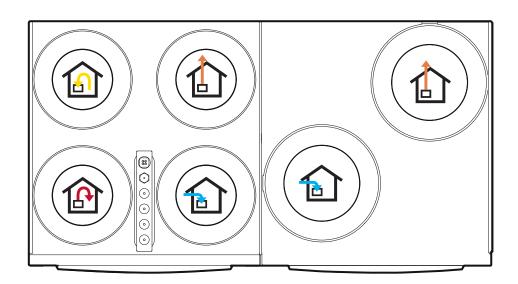
LwA 60 dBA-12 dBA = 48 dBA (which is then stated in LwA, the sound power level adapted to the ear's A band).

9.2. Pump capacity, heating system



Shows the circulation pump capacity in the heating system.

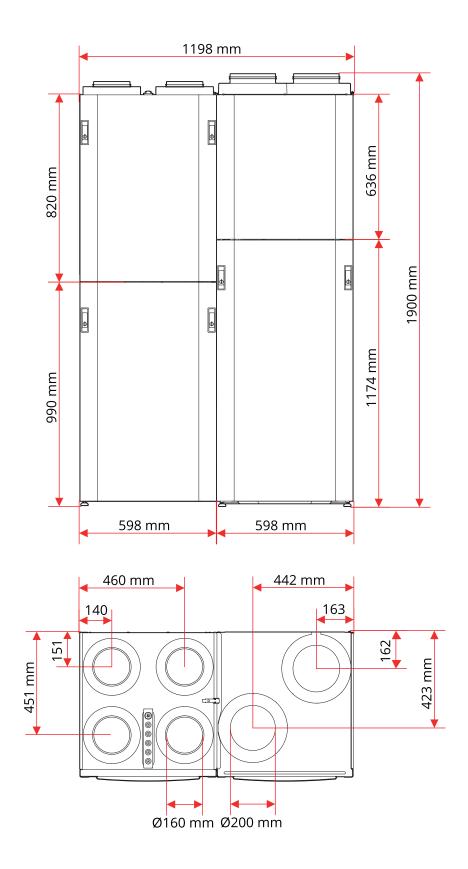
9.3. Nipple location

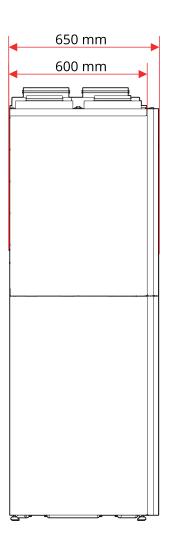






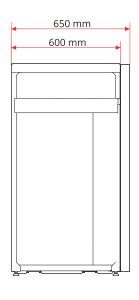
10. Dimensions



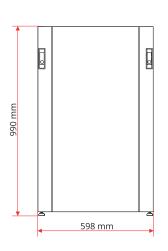


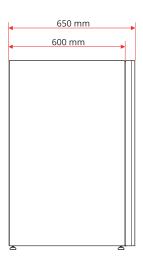
10.1. Tank module

598 mm

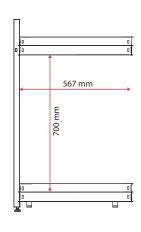


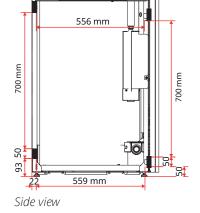
10.2. Chassis module





Internal dimensions:





Front view

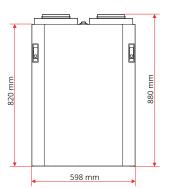
538 mm 568 mm

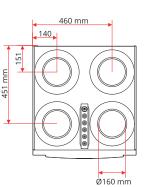
Top view

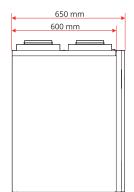




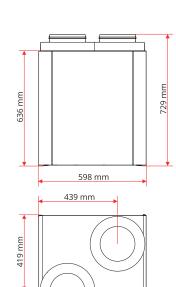
10.3. Ventilation module







10.4. Heat pump module



Ø200 mm



11. EU Declaration of Conformity for CE marking

This declaration of conformity confirms that the products meet the requirements in the following directives and standards:

Electromagnetic Compatibility (EMC)

Low Voltage Directive (LVD)

Pressure equipment

ROHS 2

Energy-efficient design directive

Energy labelling directive

2014/35/EU

2014/68/EU

2011/65/EU

812/2013/EC

814/2014/EC

Safety standards EN 60335-1:2012 + A11:2014 + A13:2017

EN 60335-2-40:2003 + A11:2004 + A12:2005 + A1:2006 +

A2:2009 + A13:2012

EN 60335-2-21:2003 + A1:2005 + A2:2008

EN 60335-2-35:2016

Standard for electromagnetic fields EN 62233:2008

EMC standard EN 55014-1:2017 + A11:2020

EN 55014-2:2015 EN IEC 61000-3-2:2019 EN 61000-3-3:2013 + A1:2019

Our products are tested in accordance with the whole or parts of the following standards:

Multi-functional heat pumps, performance EN 16573:2017

Heat pumps for domestic hot water, performance EN 16147:2017 Tested at RISE (SP)

Sound data EN 12102:2017

WH4:

Heat pumps for space heating, performance EN 14511:2018 Heat pumps for space heating, seasonal performance EN 14825:2016

Producer: FLEXIT AS, Televeien 15, 1870 Ørje, Norway

Type:

EcoNordic WH4 Indoor Climate Central EcoNordic W4 Indoor Climate Central

The product is CE-labelled: 2018

FLEXIT AS 2018

Shut Skogstand

Knut Skogstad CEO









The product is listed in the database for building products that can be used in Nordic Swan Ecolabelled buildings.

