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EcoNordic WH4 | WH4 XL

ART.NO.: 800501, 800505

Important information

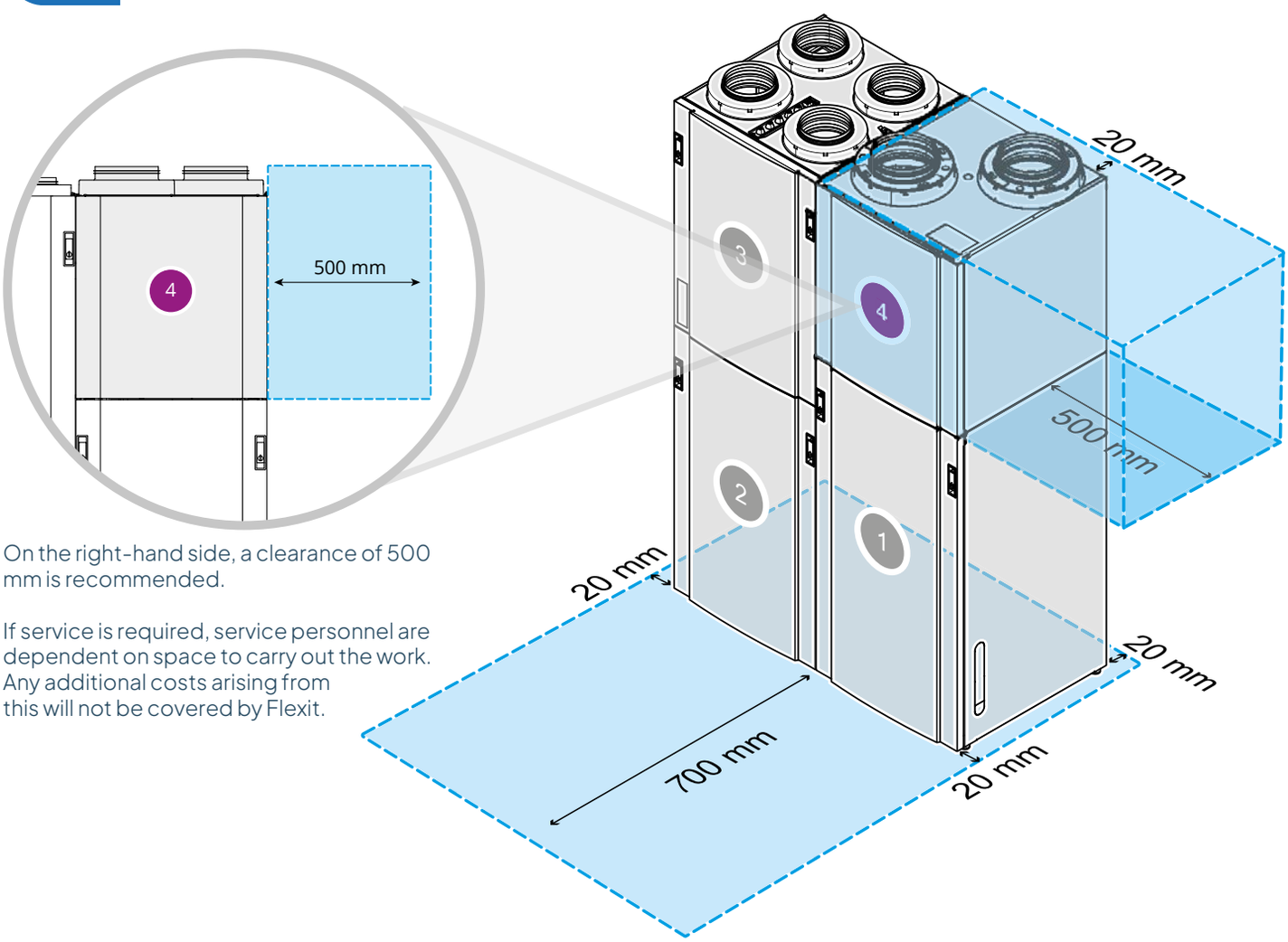
Positioning must comply with individual countries' electrical safety legislation. Check which rules apply in your country.

The electrician is responsible for ensuring that installation is carried out in accordance with current statutory requirements.

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

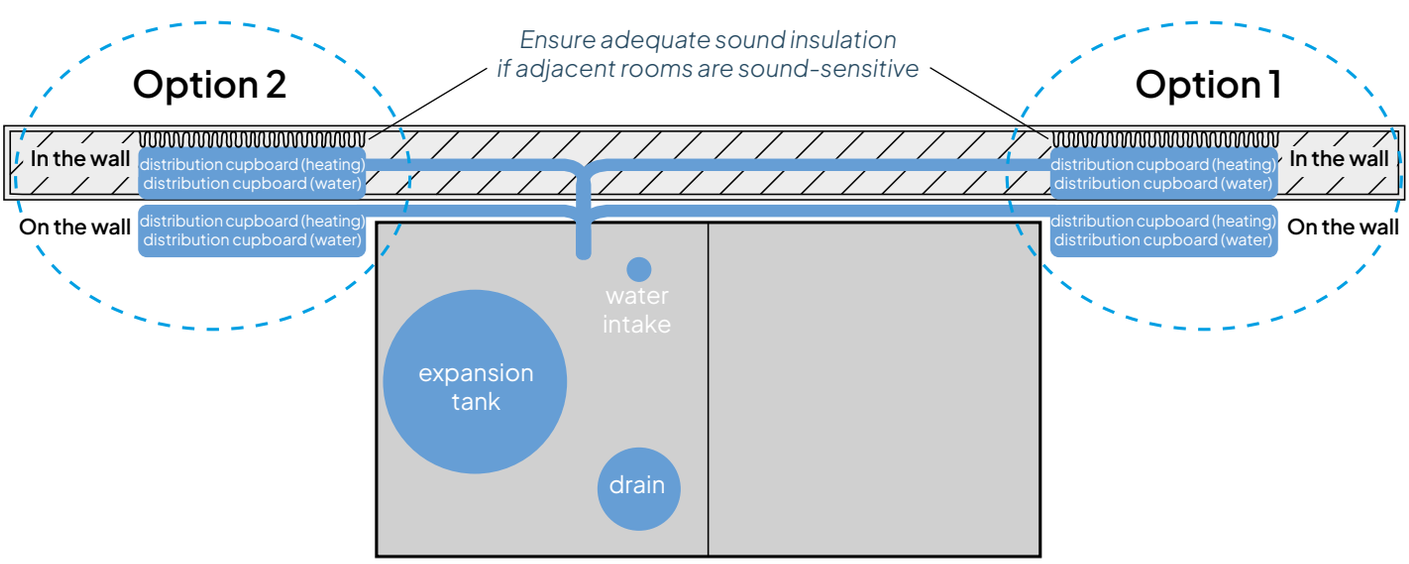
1. Position

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

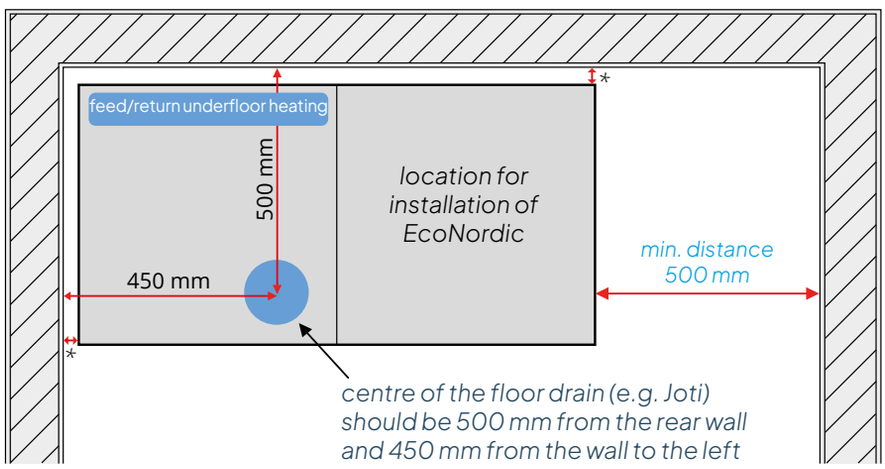


On the right-hand side, a clearance of 500 mm is recommended.

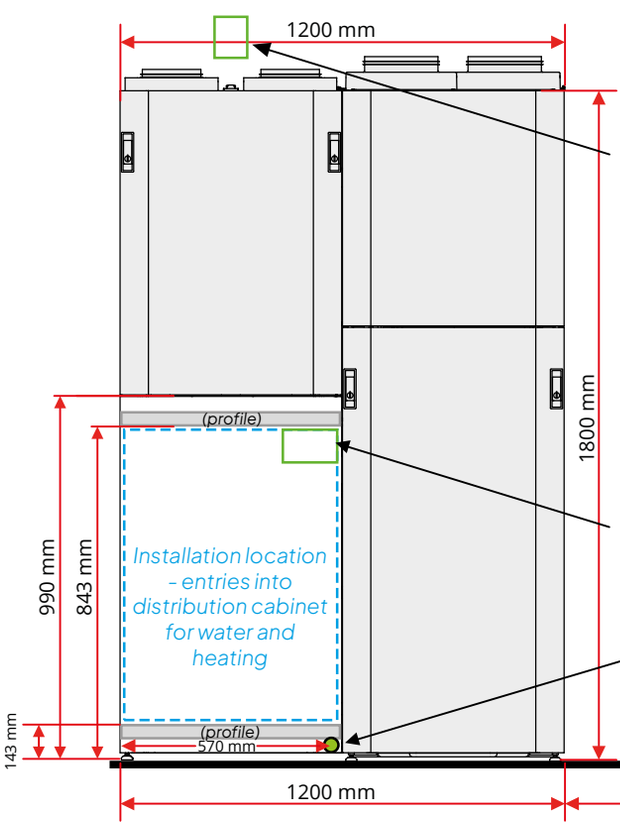
If service is required, service personnel are dependent on space to carry out the work. Any additional costs arising from this will not be covered by Flexit.



The product must be connected to a drain It is recommended that the drain is located near to or under the product (see sketch)



** distance requirement min. 20 mm*



Access to cabled network. 20 mm dia. conduit

Location for power supply Extra 10 A plug if manifold ports for water-borne heating are located in the installation cabinet.

Possible 32 mm drain in wall if the floor drain is mounted outside the installation module.

min. space requirement to right of product

2. Joiner and fitter

Room layout

- The floor's load-bearing capacity must be able to cope with the product's total weight of 450 kg, including full water heater.
- Distance to wall: see installation instructions.
- The room must have a drain. Recommended location: centrally under the chassis module.
- The temperature in the room must always be between +3°C and +30°C.
- The installation room must be defined as a technical room.
- The installation room and adjoining rooms must be adapted to the product's sound level (see installation instructions for details of your product).
- It is recommended to use soundproof walls with staggered studs and panels, as well as double drywall or wall design of equivalent quality.
- A soundproof door with a tight threshold and a sound-insulated wall with cut-off studs and boards and double plasterboard or wall design of equivalent quality is recommended.
- The room must have a ceiling height of at least 2.4 m.
- The heat pump's fan is accessible from the top right-hand side of the product. The necessary access must be ensured.

Air flow between rooms

Ensure with a gap of 20 mm under doors up to 72 m^3/h or a flow opening of 2.2 cm^2 per m^3 of air an hour.

Kitchen

If a kitchen fan with motor is planned, a suitable air supply must be ensured owing to negative pressure.
This can, for example, be done with a pressure relay that changes the speed of the unit when the kitchen fan starts.
Alternatively, a window or the like can be used.
Kitchen fans with an extra high capacity require extraordinary air supply measures.

Fireplace

The air supply for fireplaces of 150–300 m^3/h should be in the form of a fresh air duct directly to the fireplace or a ventilated flue.

Fire requirements

Any fire safety requirements must be clarified.

Heat sources

The positioning of heat sources must be coordinated with extract air valves so that heat is not sucked straight out through a valve or door gap.

Enclosure

Any enclosure of ducts must be done in such a way that inspection is possible from the front, the left-hand and the right-hand side of the product.

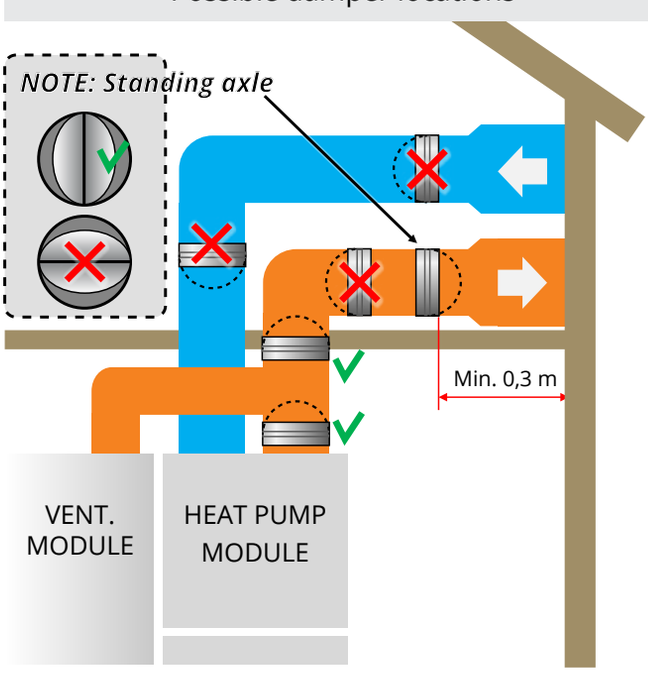
Ventilation

1. All ventilation channels must be connected.
2. Outdoor air and exhaust ducts must be insulated all the way to the outer wall.

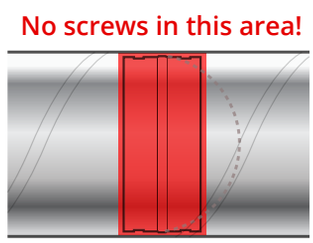
Exhaust air duct for heat pump module

Frost protection damper
The damper must be installed to prevent serious damage to the product, and it can only be mounted according to the proposed positions shown below.

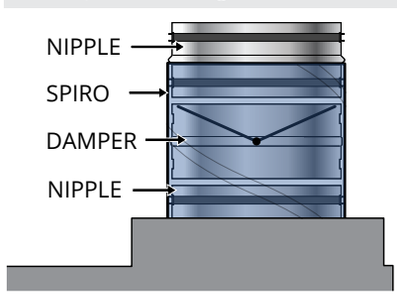
Possible damper locations



Damper inside the spiro



Installation on heat pump
Spiro cut length: 175 mm



3. Plumber

Water quality

Make sure the pH value is no lower than 7,3 and calcium content below 4 mg/L.
For more information, see chap. "5.6.3. Water quality" in the installation instructions.

Installation

Flexit does not supply pipe connections for EcoNordic except where you have purchased the prefab module. In this case, the following must be carried out before commissioning:

Cold water in:

- Mount filter.
- The installer must establish a connection for cold water at the base of the tank, 3/4" external thread.
- If cold water in has a pressure of 4.5 bar or more, a reduction valve must be mounted, throttling the pressure to, say, 3 bar.

Hot water out:

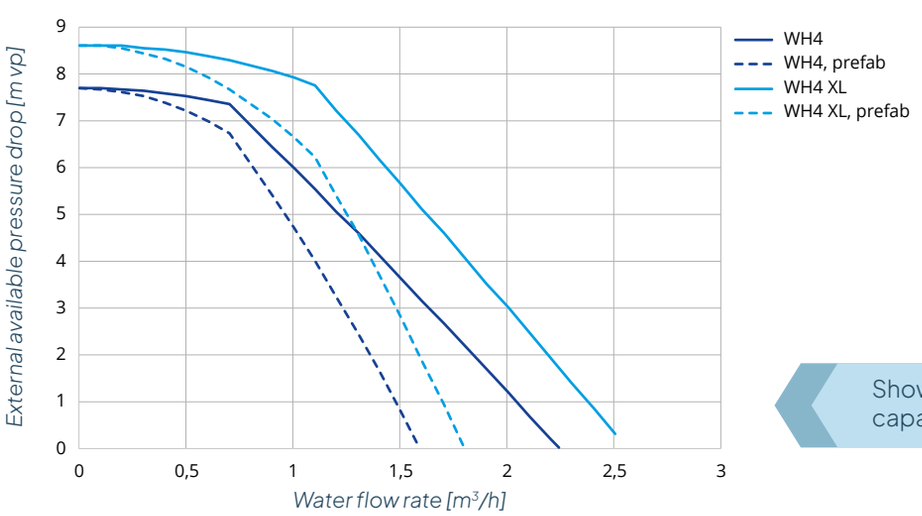
- The installer must establish a connection for hot water out, 22 mm plain end.
- It is not recommended to connect this to hot water circulation.

Feed and return heating system:

- Connections have 1" external thread. Use transition unions for e.g. 22 or 28 mm. Connect to the manifold with hose or fixed piping in 28 mm or 1".
- The return line of the heating system must be equipped with a filter with a magnetic rod, alternatively a magnetite filter, as well as a pressure gauge and an expansion vessel typically 12 liters, with a safety valve rated at 2.5 bar.
- Mount a filling valve with non-return valve.
- EcoNordic has its own circulation pump for heating systems dimensioned for up to approx. 250 m^2 of underfloor heating.

EcoNordic does not require an accumulation tank or bypass.

Pump capacity, heating system



Shows the circulation pump capacity in the heating system.

4. Electrician

The product is supplied as 400 V~3N, but can be converted to 230 V~3. The necessary equipment is supplied.
Earth leakage circuit breaker of 'type B' must be used.

A slow-blow fuse is recommended, e.g. C-type.

See separate conversion instructions and wiring diagram.

Rated voltage

WH4

	400 V 3N~	
Flow-through heater power	3 kW	1 kW
Fuse size	3×16 A	3×10 A
Rated current, total	14,3 A	10,0 A
Rated power, total	6,4 kW	4,4 kW

WH4 XL

	400 V 3N~		
Flow-through heater power	8 kW	6 kW	5 kW
Fuse size	3×16 A		
Rated current, total	14,3 A		
Rated power, total	9,3 kW	7,3 kW	6,3 kW

External pipe connections:

Link to installation instructions for prefab module.

Commissioning

1. Prior to commissioning, all connections must be made: cold water in, hot water out, feed and return to heating system.
2. The heating system must be vented and filled to minimum 1 bar pressure.
3. At startup all floor ports must be fully open and their flow regulated.

Commissioning with Flexit GO (control system via app)

- Connect to functioning internet in the dwelling. If there is no internet, use an access point
- For more information, see chap. "6.2. Connection" in the installation instructions.

The app is regularly updated. As there may be a difference between older installation instructions and the new app, it is recommended to download the latest version of the instructions from www.flexit.com.

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

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