

Domestic climate heat pump

EcoNordic

- Balanced ventilation with heat recovery
- Air/water heat pump for water-borne heating and domestic hot water
- For residences up to 300 m²



A woman with long brown hair and glasses, wearing a green and white striped shirt, is shown from the chest up. She is holding a white cup in her right hand and a smartphone in her left hand. She is looking upwards and to the right with a slight smile. The background is a warm, wooden wall. A large white triangle is overlaid on the bottom left of the image, containing text.

A better indoor climate with EcoNordic

People spend a lot of time indoors, so a good indoor climate is vital for health and wellbeing. A poor indoor climate can cause respiratory diseases and other health problems. The EcoNordic ventilation module provides plenty of filtered fresh air in the home, and at the same time removes humidity and polluted air. The air/water heat pump contributes to a better indoor climate with water-borne heating.

With water-borne floor heating you can enjoy a high degree of comfort, even at lower room temperatures. When the warmth is evenly distributed over the whole of the floor, it feels comfortable, even at low temperatures.

EcoNordic reduces energy consumption by 2/3

The EcoNordic WH4 indoor climate heat pump is a complete energy solution, combining ventilation with heat recovery of more than 80 % of the heat in used indoor air. The residual energy from indoor air is utilised together with extract air in an air/water heat pump that exploits up to 95 % of the heat. Energy consumption for heating and domestic water is reduced by 2/3. EcoNordic is specially adapted to cold and demanding climate, and constructed to meet the strict requirements for housing environments and energy consumption of the future.

Advantages for you with EcoNordic WH4

- Clean, fresh air: Balanced ventilation that removes polluted air and supplies clean, fresh air throughout your home.
- Less heating is needed: Heat recovery reduces both the power requirement and the need for heating in the home.
- Efficient heat pump: The air/water heat pump functions efficiently down to -25 °C.
- Comfortable warmth: Connect water-borne floor heating for an even, comfortable temperature throughout the house.
- Large hot water capacity: Fast and efficient supply of hot water. In fact, as many as two out of three showers are free.
- Space-saving design: Stylish, compact and easy-to-maintain installation.
- Smart control: Use the Flexit GO app to control the climate heat pump. This also enables remote service.
- The 4 kW heat pump, combined with passive heat recovery, gives a total output equivalent to 6 kW from an extract air heat pump.



There are two versions of EcoNordic: WH4 and WH4 XL. The XL model has larger ventilation capacity and a larger electrical heater. Flexit will help you to choose the right version for your home.

	EcoNordic WH4	EcoNordic WH4 XL
Adapted to the size of the house	up to 220 m ²	up to 300 m ²
Ventilation air capacity (max)	370 m ³ /h	524 m ³ /h
Ventilation air capacity (operation)	295 m ³ /h	400 m ³ /h
Climate zone	Down to -25 oC	Below -25 oC
Heat pump effect	4 kW	4 kW
Electrical heater	3 kW	5 kW + 3 kW
Max. effect at -18 oC	7.4 kW	9.4 kW
Max. effect at -26 oC	3.9 kW	8.9 kW



How the EcoNordic indoor climate pump works

1. Ventilation module

Balanced ventilation with heat recovery ensures a good indoor climate and high comfort in all rooms, all year. With heat recovery the fresh air supply is tempered, avoiding cold draughts during the cold season.

- The house is supplied with clean, filtered fresh air, and used indoor air is removed
- It saves energy by recovering heat in the ventilation air
- The air quantity is monitored continually – to supply the right amount of fresh air in your home



2. Heat pump module

The air/water heat pump extracts energy from residual heat in the ventilation unit and from extract air. The heat is transferred to water, which is led to the tank module.

- This heats water to 65 degrees with no electrical heater
- Does not require bore holes or ground loops
- No inconvenient outdoor unit
- All technical components are integrated into the heat pump





3. Installation module

With the stylish installation module, the indoor climate heat pump can be placed in a utility room or washing room.

- Technical components are concealed
- Easy access for service and maintenance
- Cleaning is simpler
- Space-saving installation
- An adapted prefabricated module, available as an extra accessory



4. Tank module

The tank module stores energy from the heat pump in the water. It is used for both domestic water and for water-borne heating.

- Integrated accumulation tank
- Capacity: 200 litres
- Hot water is heated up considerably faster than in a standard water heater
- It provides heat for the water-borne heating system in the building

Stylish installation with the Prefab module

As a quality assurance for the installation, Flexit has developed the Prefab module, which is sold as an accessory. When installed, the Prefab module is concealed in the installation module, assembling the technical components for fast, service-friendly installation.

Natural, environment-friendly refrigerant

The EcoNordic indoor climate heat pump uses CO₂ as refrigerant, which is efficient and climate friendly. As a natural refrigerant, it is exempted from environmental taxes. The advantage of using CO₂ as the refrigerant is that it is highly suitable for heating up to high temperatures, even at low outdoor temperatures.

Water-borne heating

Water-borne heating makes it possible to exploit hot water from a renewable energy source such as the air/water heat pump in EcoNordic.

- Water-borne floor heating provides even, comfortable warmth throughout the house.
- With water-borne floor heating, the indoor temperature can be lowered without reducing comfort.
- Water-borne floor heating makes designing and furnishing the room easier.
- Water-borne heating has a low temperature. Unlike electrical elements, it does not burn dust, so it is suitable where flooring is sensitive to high surface temperatures.
- With water-borne heating in fan convectors, heat can be distributed to rooms without water-borne floor heating, or in refurbishing projects where the floor has to be retained.



Savings with EcoNordic in a new home

Under new building regulations, there are minimum requirements for factors such as energy consumption. Installing an EcoNordic unit will cut electricity consumption by half and reduce the energy needed for heating and hot water by two thirds. Flexit EcoNordic contributes towards a better energy rating and adds value in the form of an energy-effective heating system.

Savings in a new house with EcoNordic – an example

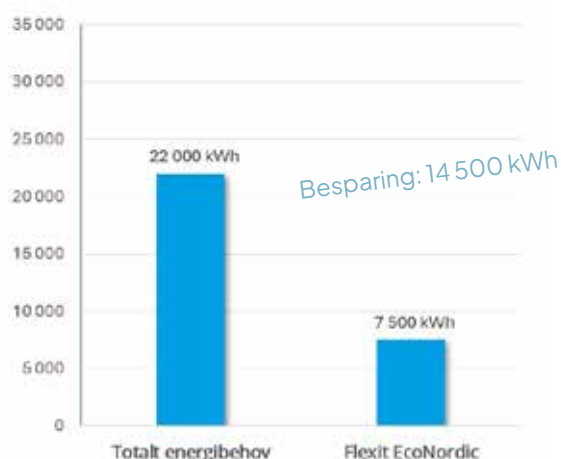
New house, 160 m²

Climate zone: Stockholm

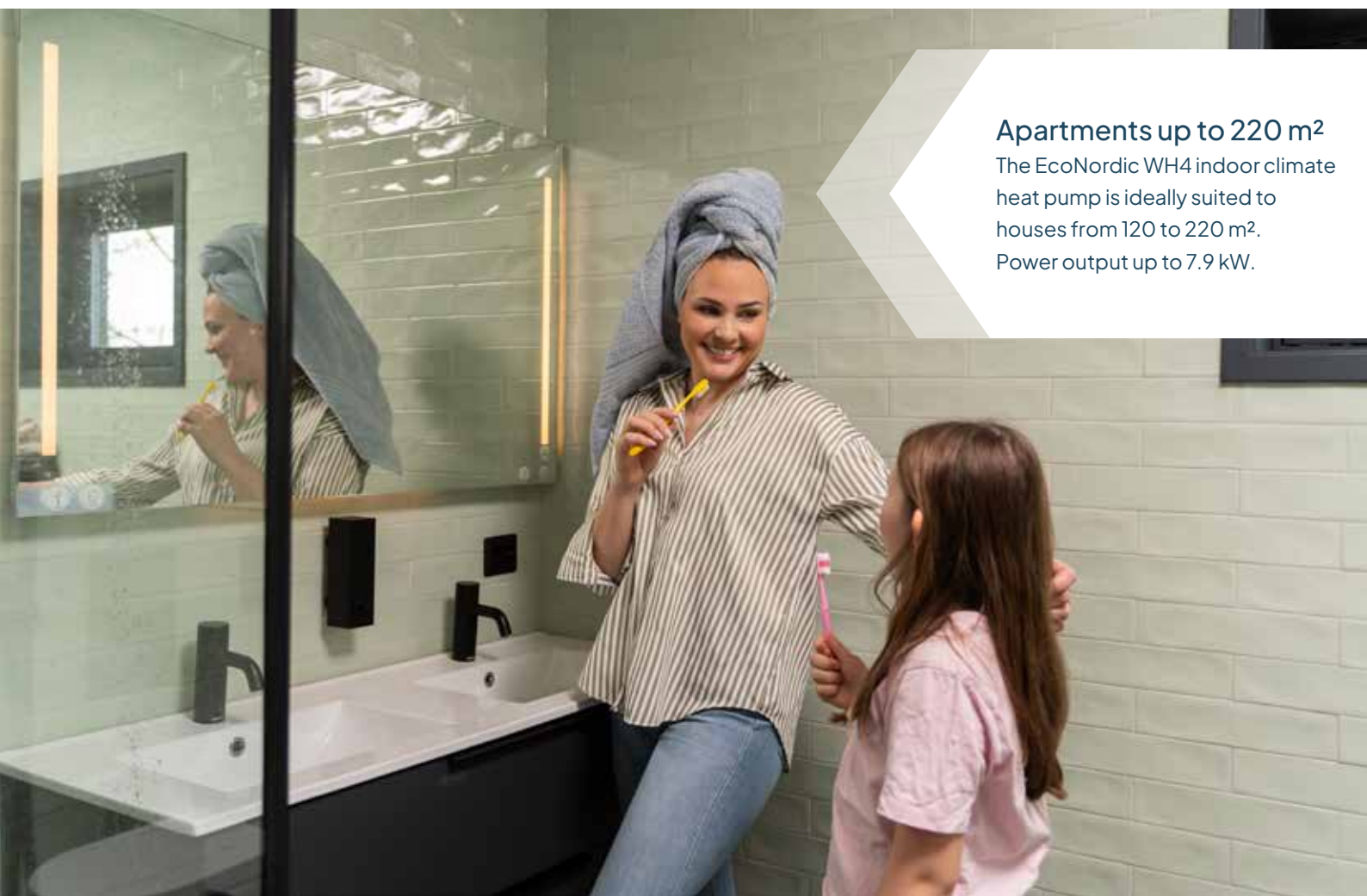
Total energy requirement: 22 000 kWh

Total energy consumption: 7 500 kWh

Saving: 14 500 kWh



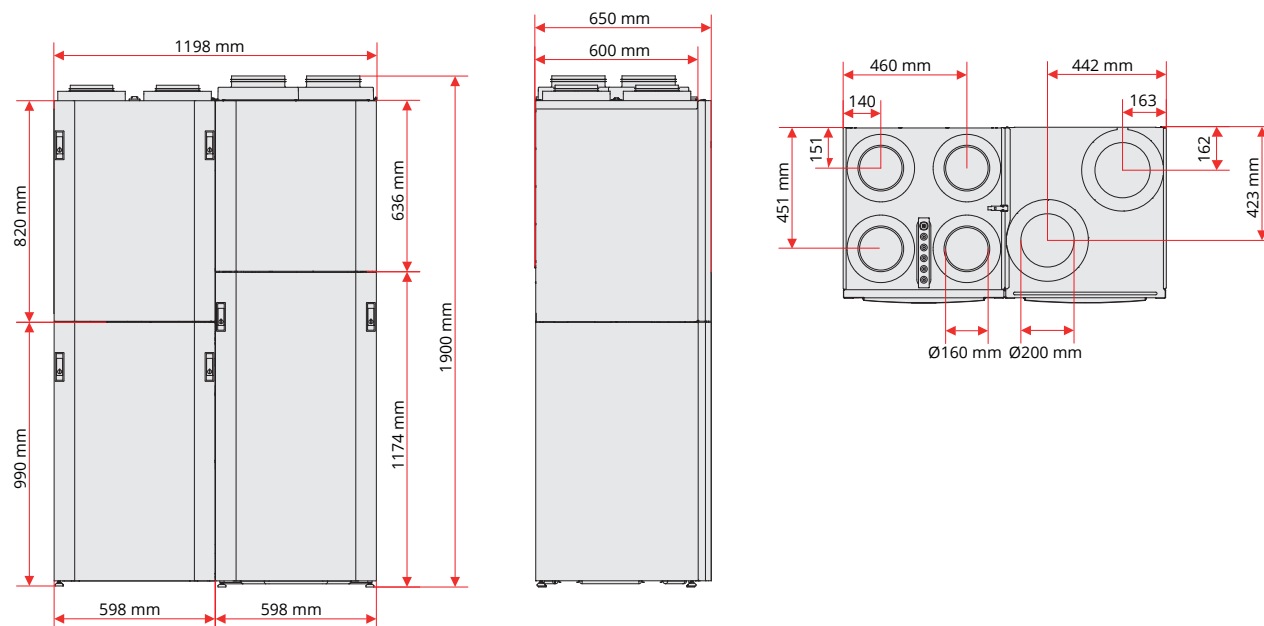
Domestic electricity is not included in the columns of the diagram.



Apartments up to 220 m²

The EcoNordic WH4 indoor climate heat pump is ideally suited to houses from 120 to 220 m². Power output up to 7.9 kW.

Technical information and documentation



Product no.	Model	GTIN
800501	EcoNordic WH4	7023678005019
800505	EcoNordic WH4 XL	7023678005057
118545	Prefab module main unit	7023671185459
118546	Kit with expansion tank for domestic water	7023671185466

Further information about EcoNordic

Product data sheet

Technical information on performance, noise and capacity.

Preparation required

Important information and details to check and plan before you install EcoNordic.

Installation instructions

Instructions for how to install the four modules and how to commission and regulate the whole of the climate heat pump.

User guide

Describes how to utilise and adjust the individual modules, instructions for Flexit GO, maintenance and trouble shooting.

Scan the QR-code

WH4:



WH4 XL:



More information?

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Smart controls with Flexit GO

To give you full control over the indoor climate in your home, the climate heat pump uses the Flexit GO control system. Flexit GO gives you access to the climate heat pump using an app on your phone or tablet. For example, you can set the temperature, select ventilation mode or see if there is an alarm or notice about maintenance.

It is easy with Flexit GO, and you have everything in one place. Wherever you are, you can control the EcoNordic Indoor Climate heat pump with the Flexit GO app. Flexit GO also enables remote control of monitoring and service by Flexit or other service personnel. That means we can help you effectively with online service and support, without needing to call a service technician.



Download Flexit GO
from Google Play or
App Store.



Made in Sweden

Flexit products undergoes continuous development to make them even more economical with energy saving, without compromising on a good indoor climate. It is our philosophy that the energy you save by not using it, is the most environmentally friendly energy of all. All units are manufactured in Töcksfors Sweden, and always in stock for fast delivery.

Flexit supplies solutions for a better indoor climate. Flexit is a market leader in residential ventilation and has provided ventilation solutions to homes since 1974. Our solutions are specially designed to improve the indoor climate in homes, in a demanding conditions. So you can rest easy!

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