

# EcoNordic

Domestic climate heat pump



All-in-one solution

Integrated balanced ventilation, underfloor heating and tap water

Modern control system by Flexit GO app



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## Better indoor climate

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We spend more and more time indoors. In fact 90 per cent of the hours of the day.

A good, healthy indoor climate is vital if we are to function optimally in our daily lives. If the indoor climate is poor, there is a risk of dangerous respiratory diseases and other health problems, and in the longer term a poorer quality of life. Many people suffer from respiratory diseases which are often caused by poor indoor ventilation.

That is why Flexit has developed healthy, energy-efficient solutions for the whole house.

## EcoNordic - Balanced ventilation, underfloor heating and tap water in a space-saving and energy-efficient climate heat pump

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EcoNordic climate heat pump – A complete, energy-efficient solution for a good indoor climate with clean and fresh and tempered air. Heating in the home and plenty of hot water. Specially developed for demanding conditions in cold climate.

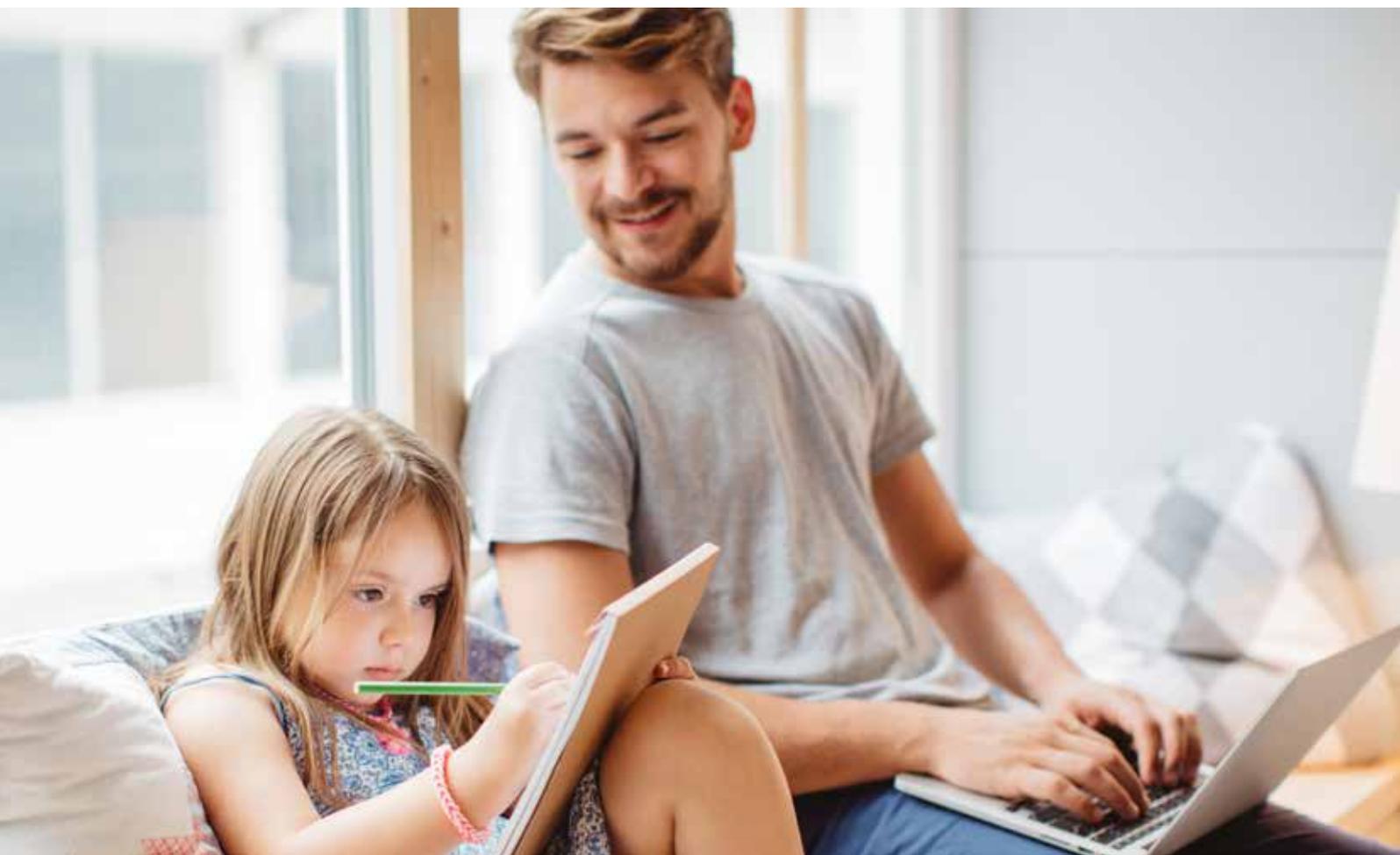
### Advantages for you with EcoNordic WH4

- ✓ Supplies fresh air at the right temperature throughout the house
- ✓ A total solution that reduces energy requirements and has a low installed power rating
- ✓ No matter where you are, you can control the heat pump with the Flexit GO app
- ✓ The natural and environmentally friendly refrigerant, CO<sub>2</sub>, is future-proof and free of environmental taxes
- ✓ Convection draughts are avoided through ventilation with heat recovery
- ✓ Cooling recovery – on hot summer days the supply air is cooled with cold extract air
- ✓ Free cooling – outdoor air cools your home when the indoor air is warmer than the outdoor air, e.g. at night
- ✓ Energy efficient and environmentally friendly technology that gives you two out of three showers for free
- ✓ Large hot water capacity – supplies plentiful water at 65 degrees. Allows for large quantities of tap water without separate water heaters
- ✓ Elegant, easily operated, and space saving



### All-in-one solution

- Balanced ventilation
- Heat recovery
- Underfloor heating
- Domestic hot water



## A complete solution prepared for the future

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In a modern house built today, energy requirements for heating are much lower than in a comparable house built in the 1970s. In future, family homes will use even less energy for heating. At the same time, home use of hot water for showers and other purposes is increasing. Flexit stands for “a better indoor climate”, and good ventilation is an increasingly important factor in today’s airtight houses. Our new EcoNordic climate heat pump integrates balanced ventilation, underfloor heating and hot tap water. At the same time, we seek to contribute to the green shift with less environmental impact and fewer emissions.

### How the EcoNordic climate heat pump works

The ventilation module recovers heat from used air from the house, and uses it to warm up the new fresh air coming in. Then the remaining heat in the used air is bypassed through the unique heat pump module, which recovers even more heat with CO<sub>2</sub> as the efficient and environmentally friendly refrigerant.

The recovered heat is then led to the tank module, which distributes hot water to taps, showers and underfloor heating. EcoNordic constantly measures the air flow, which means it always supplies the home with the right amount of fresh air. The climate heat pump is controlled with Flexit GO app or the NordicPanel control panel.

### The correct filter insures healthy indoor air

The air filter ensures healthy indoor air by removing harmful fine dust, including pollen, bacteria and other organic and inorganic materials.

The air filter also keeps the ventilation module clean and ensures efficient, hygienic operation.

Most particles found in outdoor air are very small, and it is these that are also most dangerous to health.

That is why Flexit uses PM1 filters for the supply air in rooms occupied by people.

## Balanced ventilation with heat recovery

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Balanced ventilation ensures a good indoor climate in all rooms, all year round. The house is supplied with clean and fresh air at the right temperature. Used indoor air is removed. The indoor air is kept fresh and clean, and comfort is high. You also save energy, since up to 95% of the heat in the ventilation air is recovered.

On hot summer days the outdoor temperature rises rapidly, which means that it is cooler indoors because of thermal inertia. During these periods, the supply air is cooled by the cooler extract air. Cooling recovery is a standard function. At night, when the outdoor air is cooler than the indoor air, the cooler outdoor air cools the house – i.e. there is summer night cooling.

You can easily adjust the ventilation according to requirements in your home, e.g. with functions to remove humidity, pressure sensor for extra supply air to kitchen hood, fireplace mode etc.



Clean, fresh air all year round, even when it is cold outside

## Natural, environmentally friendly refrigerant

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The EcoNordic climate heat pump uses natural, environmentally friendly CO<sub>2</sub> as its refrigerant.

The refrigerant is not subject to environment taxes, always available, and easy to handle.

CO<sub>2</sub> is extremely efficient in producing hot water, which is also the largest item on the energy bill in new houses. Thanks to its energy efficiency, the EcoNordic WH4 also supplies energy to the heating system without even starting the heat pump compressor.

A natural refrigerant is an obvious choice if you want to make a safe investment in the future.



Natural and environmentally friendly refrigerant

## Water based underfloor heating

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The EcoNordic climate heat pump supplies the home with fresh air and helps to reduce energy consumption for heating. A total solution with a low installed-power rating.

EcoNordic ensures that heat is always supplied for the heating system, even when there is a need for hot tap water.



Water based underfloor heating with low energy consumption



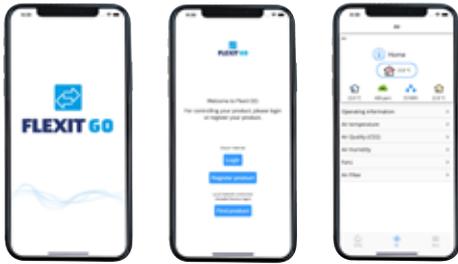
## 2 out of 3 showers are for free

Water heating is energy efficient, which means the EcoNordic climate heat pump produces large amounts of hot water quickly. It helps to keep energy consumption low in the home. EcoNordic has an XL hot water tapping profile, and more than two out of three showers are for free.



Energy efficient  
hot tap water  
production

## Connect EcoNordic and be in control with Flexit GO app



To give you full control over the indoor climate in your home, the climate heat pump uses the Flexit GO control system. By means of an app, Flexit GO allows you to access the climate heat pump from a mobile phone or tablet. It is also possible to check on noise or maintenance reports, set the desired temperature, select the ventilation setting, etc.

Having everything in one place makes things easy for you, and you do not need other control panels. No matter where you are, the EcoNordic climate heat pump can be controlled with Flexit GO. This allows the greatest flexibility, since you always have your mobile phone accessible – at home or when you are out.

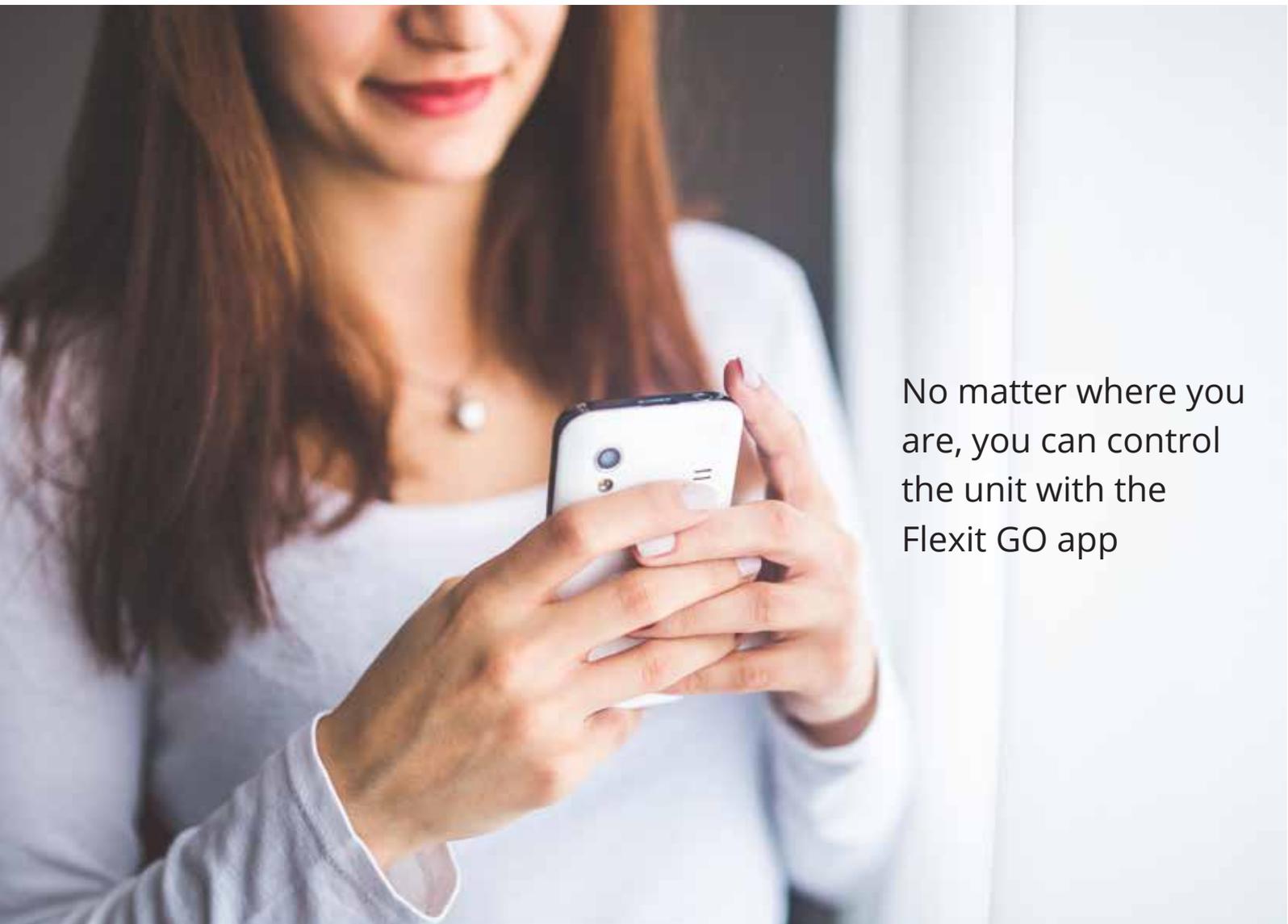
Flexit GO allows monitoring and service by remote control from Flexit or other service providers. That means we can help you as efficiently as possible, e.g. with service and support on the internet, without calling out an engineer.

### New services in the future

In the future, Flexit will offer new services via the app, which we hope you will find useful. Through your connection you will have easy access to them.

### Get started with easy connection directly from your mobile phone.

Simply connect the unit directly from a mobile phone, without extra accessories. This requires internet access.



No matter where you are, you can control the unit with the Flexit GO app



- ① Ventilation module
- ② Heat pump module
- ③ Installation module
- ④ Tank module

## Smart installation

Today, we expect our installations to look smart. EcoNordic consists of four modules which together form a smart, energy efficient climate heat pump. The modular construction simplifies transport into the building, as the weight is reduced and the product is easier to handle.

The climate heat pump is placed in a technical area, and water connections, expansion tanks etc. can be concealed in the built-in installation module. This keeps the technical area smart, clean and compact.

The climate heat pump is easily serviced with components accessible from the front of the product.

The outdoor environment around the house is also important. With the EcoNordic air to water heat pump you have no large, noisy outdoor unit, and you do not need to excavate for a ground source heat pump.



Components located indoors, with no need for an outdoor unit



Flexit supplies systems for a better indoor climate. Flexit is a market leader in residential ventilation and has provided ventilation systems to homes for over 40 years. Our systems are specially designed to improve the indoor climate in houses, in demanding conditions. So you can rest easy!

### Contact information

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