

# Ventilation units for new and existing homes

Nordic series

Energy-efficient and low-noise ventilation units to provide fresh air at the right temperature in all rooms, all year round.



# Clean, fresh air at the right temperature in all rooms, all year round



Balanced ventilation is an excellent solution in which humid air is expelled from the kitchen, bathroom, toilets and laundry rooms. In addition, fresh air at the right temperature is led into bedrooms and living rooms. Ventilation can be increased when showers are in use and extra humidity is produced. When humidifiers are in use, ventilation is regulated automatically.



On average, we spend 58 years of our lives at home, and as much as 27 years in the bedroom, so the air in housing is important.

## Better indoor climate

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.

## Balanced ventilation with heat recovery

Balanced ventilation ensures a good indoor climate in all rooms, all year round. The house is supplied with clean, fresh air at the right temperature, and used indoor air is removed. The indoor air is kept fresh and clean, and comfort is high.

You save energy, since up to 85% of the heat in the ventilation air is recovered.

Heat recovery means that the fresh air has the right temperature, and there are no cold draughts during the cold seasons.

Flexit has attached great importance to developing units that can withstand the tough demands of our Scandinavian climate.

The units are constructed to avoid cold bridges, and to reduce heat loss as much as possible. This means good heat recovery and minimises the risk of condensation.

## Cooling recovery and night cooling in summer

On hot summer days the outdoor temperature rises rapidly, which means that in some periods 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 indoor air is cooler than the outdoor air, the cooler outdoor air cools the house – i.e. there is summer night cooling. This function can be activated in the Flexit GO app as required.



### Think of ventilation when refurbishing

When older housing is refurbished, energy-saving steps are often taken, such as replacing windows, increasing insulation and replacing heat sources. Many people forget ventilation when housing is refurbished, and discover problems afterwards with stuffiness, condensation on windows and damage from humidity. Remember, therefore, to check what is needed to upgrade the ventilation before you begin refurbishing – not afterwards.

### Advantages of balanced ventilation

- Polluted and humid indoor air is removed
- The home is supplied with clean, filtered air at the right temperature
- High comfort, low noise and draught-free ventilation
- Saves energy and recovers up to 85% of the heat in the ventilated air
- Developed for demanding climates, so it functions optimally, even during the cold seasons



### Good ventilation is even more important in new homes

Newly built houses are airtight and well insulated to save energy and prevent heat loss. At the same time, building regulations require energy-efficient ventilation in the home. The intention is to create an energy-efficient building with a good indoor climate. Energy-efficient ventilation solutions are needed, which provide fresh, clean air, removing spent and polluted air and recovering the heat.

Smart, energy-efficient  
ventilation for a better  
indoor climate



## Residential units in the Nordic series best in their class

In Scandinavia we build houses to withstand the world's most demanding climate. Flexit therefore works for a better indoor climate, which is important for well-being and good health. Our innovative solutions contribute to smarter homes and more environment-friendly buildings, and play an important part in the green shift. Our products are tested in our state-of-the-art climate and sound laboratories, so you can rely on them.

The Nordic series are the best ventilation units on the market for a cold climate. They provide balanced ventilation and supply the house with clean, filtered fresh air at the right temperature. The unit is easily controlled from an app from a smart phone or tablet, or with an ordinary control panel.

The ventilation unit in the Nordic series has been developed to be energy efficient in the Scandinavian climate. It fits well in apartments, small buildings, bungalows and small commercial properties, and helps to produce a very good indoor climate. A cooker hood can easily be connected using a bypass solution. The ventilator unit has highly efficient rotating heat exchangers with temperature efficiency levels up to 85%, and fans with low energy requirements.

All Nordic units have the Flexit GO app as the default control, and can be supplemented with a variety of accessories, either wireless or cable-connected, e.g. a control panel, humidifier, pressure sensor for a kitchen fan, CO<sub>2</sub> sensor etc. The control system is prepared for control according to local requirements. When extract-air humidity is high, the defrosting function secures operation in a cold climate.

By default, all Nordic units can also be controlled using the overall Modbus RTU system.

### Low noise

Noise from the Nordic system is very low. With low noise levels in the ducts and to surroundings, the unit is the best in its class.



### Energy efficient

Ventilation units in the Nordic series are highly energy efficient. The fan motors in the units do not need much energy to transport the air. The rotating heat exchanger in the ventilator unit recovers a high proportion of the heat. The unit provides the owner with optimal ventilation in the home, at the lowest possible energy costs.



## Smart installation

Today, we expect our installations to look smart.

The elegant residential units in the Nordic series fit in with all environments. They can be supplemented with a ceiling connection to conceal connecting ducts.



## Discreet modern design

The Nordic CL series in a smart modern design is easy to install in the ceiling of your hall. The ceiling frame is discreetly installed, flush with the ceiling.



Simple controls from an app on your smartphone or tablet



## Unit for installation on the wall, floor or ceiling

### S model

#### Advantages of the Nordic series residential unit, S model

- Energy efficient in demanding climate
- Modern design
- Easy operation and service
- Very low noise level in the ducts and to surroundings
- Controlled from an app and cloud services



#### Easy to set up

The S models can be placed upright on walls, on the floor or suspended from the ceiling.

The unit can be installed in either warm or cold areas.

## Unit for installation in an attic or suspended ceiling

### CL model

#### Advantages of the Nordic series residential unit, CL model

- Can be installed either in a cold attic or a suspended ceiling
- Low weight and height < 30 cm
- Configurable door solution
- Very low noise, below 35 dB(A)\*
- Controlled from an app and cloud services



*\*Noise to surroundings at 4 dB room attenuation, corresponding to 10m<sup>2</sup> Sabine.*

#### Easy to set up

The CL series consists of units for attic installation in cold areas, but can also be installed in suspended ceilings. The unit is small and flexible, with low height and low weight. This makes it easy to position and install, as it can be lifted through an attic staircase. This also means that the unit is ideal as a replacement for older ventilation units.

A Nordic CL unit can also be fitted flush with the ceiling, even when IP class 21 is required.

The ventilation unit can also be placed on a wall, or standing or lying on the floor, e.g. in a utility room.

CL models are available as either right- or left-hand models, which simplifies duct routing and means that the ventilation system can quickly and easily be mirrored in two apartments. With configurable doors, it is also possible to choose in which direction the door opens.

#### Easy to use, simple maintenance and filter replacement

With the Flexit GO app it is easy to adjust settings, and see information about filter replacements among other things. Components are easily accessible, so it is easy to change the filter in the ventilation unit.

#### A filter change is an investment in a healthy indoor climate

By itself, the filter contains no harmful substances, but a soiled filter can contain undesirable or hazardous particles. The filter cleans indoor air by removing harmful fine dust, including pollen, bacteria and other organic and inorganic materials.

A new filter also helps to remove moisture from wet areas more easily, and the risk of bacterial growth is reduced.

A filter has limited lifetime, and it is important to replace the filter in the ventilation unit when it is soiled.

The correct air filter enables the ventilation unit to function optimally and ensures efficient and hygienic operation.

With a filter subscription, filters for your ventilation unit will be sent to you automatically.



## Flexit GO - the app gives you full control

To give you full control over the indoor climate in your home, the ventilation unit has the Flexit GO control system. By means of an app, Flexit GO allows you to access the ventilation unit 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, and receive information about filter replacements, 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 ventilation unit 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 remote monitoring and service from Flexit or other service providers. That means we can help you as effectively as possible.

With the functions you control by Flexit GO, you get greater comfort and simpler everyday life.

As a bonus, you protect the environment and save money too!

### Easy connection directly from your mobile phone

It is easy to connect the unit directly from a mobile phone, without extra accessories. This requires the unit to be connected to the Internet.

### New services in the future

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



**BETTER  
INDOOR  
CLIMATE**

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



## Accessories



### Ventilation controlled by requirements

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. Detectors for monitoring CO<sub>2</sub>, humidity or movement sends signals to the ventilation unit, which then adjusts the ventilation as required. All accessories can also be controlled using the Flexit GO app. Read more about all accessories at [flexit.com](http://flexit.com)



Let the central vacuum cleaner work with the ventilation system for an optimal indoor climate. Cleaning is simple and efficient with Flexit central vacuum cleaners. In addition, they remove the harmful micro dust, which can be dangerous to breathe in. It is all collected in a centrally placed vacuum cleaner, which is emptied several times a year. Depending on its position, you can vacuum clean almost without noise. Easy installation in new or existing housing.

Clean air in the kitchen is important for the air quality all through the house. For best results, therefore, the ventilation in the kitchen should be regarded as part of the total ventilation solution. Food smells should preferably not be spread to other rooms. Flexit supplies quality extractor hoods for different kitchen arrangements. They all have high capacity and operate reliably.



## You can rely on our data

All our residential units in the Nordic series are Eurovent certified.

That means all the technical data we supply for the Nordic series are tested and approved by Eurovent. The certificate gives you additional security as a customer that the data supplied is accurate, and that the unit functions best when it is needed – in a cold demanding climate.



Flexit participates in the ECP programme for RAHU. You can check the current validity of the certificate: [www.eurovent-certification.com](http://www.eurovent-certification.com)

## 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 are always on stock.



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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