

Single room ventilators



Balanced single-room ventilation
with heat recovery



Clean, fresh, tempered air in a single room



Everything is more exhausting in poor air. Poor air leaves you feeling unwell and drains your energy. In a stuffy room with high humidity, moisture can occur on the inside of the windows and the window frame may be damaged by moisture. And rot can cause the paint to peel off. The solution to poor air is often easier and less expensive than you think. With a single room ventilator replacing the poor air with fresh and tempered air is a simple matter.



Benefits of single-room ventilation

- It provides a healthy and comfortable indoor environment
- Up to 80% heat recovery
- It supplies clean, filtered, tempered air
- Easy, modern control system
- Easy to install in existing houses



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 as the heat in the ventilation air is recovered. Heat recovery means that the fresh supply air recover heat from the exhaust air which reduce cold draught.

Single room ventilators – Balanced single-room ventilation

Flexit single room ventilators offers you balanced single-room ventilation with heat recovery. This provides a healthy and more comfortable indoor environment. Single room ventilators are an alternative solution for single rooms in houses where it is not possible to install a full ventilation system.

Flexit single room ventilators can be installed singly, in pairs or with several in series. A modern control system makes it easy to regulate one or more single room ventilators.

Examples of suitable room types in both residential houses and cabins: lounge, living room, office, kitchen, store, garage and toilet.

A photograph of a modern living room interior. On the left, there is a white desk with a black lamp, a potted plant, a candle, and a book. In the center, a wooden chair with a yellow cushion is visible. On the right, a large window with a white frame looks out onto a bright outdoor scene. A white wall-mounted ventilator with a pull cord is visible on the wall between the desk and the window.

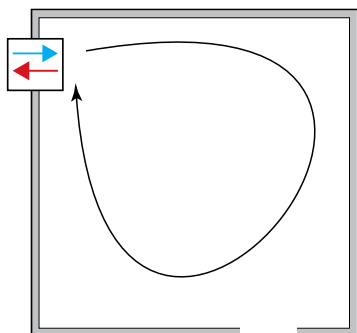
THERE ARE
BETTER
SOURCES
FOR FRESH AIR

Be more comfortable

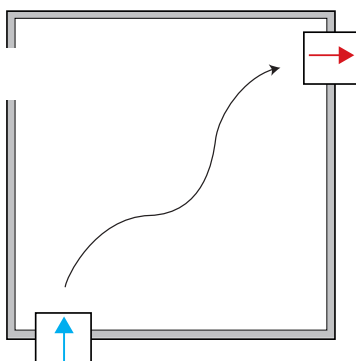
Old-fashioned flap vents provide uneven ventilation with cold draughts and high heat loss. Flexit single room ventilators have heat recovery, are easy to control using an app and offer balanced ventilation with clean, fresh air and excellent comfort.

Advice for different room types

Rooms in the home have different functions with varying need for ventilation. A large room will require more ventilation than a small room. A room where there are a lot of people present at the same time will also require more ventilation. In rooms that require more ventilation, i.e. a higher air exchange rate, than a single fan can manage, two or more single room ventilators can be used. Installation in pairs provides more capacity and air circulation.



One room fan
(e.g. Roomie Dual)



Two room fans
(e.g. 2 pcs Roomie One WiFi)

Air exchange sketch

Air movement in your room with on or two room fans.

In rooms where a lot of people are present or more moisture or odours are produced, we recommend choosing a single room ventilator with several speed settings so that the ventilation can be increased.

Flexit single room ventilators are featured with various control options. Some allow the fan to be controlled using an app on a smartphone or tablet. If you want to install single room ventilators in many rooms of the home, you should consider to install a full balanced ventilation system which would be the optimum solution.

Read more about our different models on page 11.

Cottages

Single room ventilator is a great product for all rooms in cottages too.



Bedroom

To ensure a good night's sleep, it is important to have clean and fresh air in the bedroom. The Roomie Dual is recommended for bedrooms because it provides balanced supply air and extract air, in other words the same amount of air in and out. Please note that single room ventilators are not silent and people perceive sounds differently, so this should be taken into consideration. The timer function allows that operation can be customised.

Lounge/living room

The need for ventilation will normally vary according to how many people that are in the room. It is an advantage to consider extra capacity. Two single room ventilators located at opposite ends of the room will be more efficient as this will provide a better air circulation and air exchange than one single room ventilator.

It is a good idea to calculate requirements based on the single room ventilators operating at medium speed. This will provide more silent operation and allow extra capacity if more ventilation is needed.

Toilet

It is important to extract contaminated air from the toilet. The Roomie Dual is recommended for use in toilets where minimum speed will be sufficient in most cases. If more extraction is needed, the maximum speed timer can be activated using the remote control provided.



Kitchen

It is important to stop cooking smells leaking out into other rooms. The Roomie Dual is recommended for kitchens as it provides balanced supply air and extract air, in other words the same amount of air in and out. Please note: smoke and steam from the stove. must be extracted using a regular kitchen hood.

Basement and storage rooms

In the case of a storage room without much variation in ventilation requirements, you can base your calculations on the single room ventilators running at maximum speed. Single room ventilators can be used to reduce moderate increased radon levels. Balanced ventilation helps to reduce radon concentrations.

Garage

We recommend to base calculations on normal operation at medium speed. Single room ventilators gives you the option of using maximum speed if there is a need for increased ventilation, e.g. if the car has been idling or the snow on it has raised the humidity level. The timer function and humidity sensor provides customised operation.

A Flexit single room ventilator is also perfect for a guest house, home office or playroom.

Better indoor climate

Flexit single room ventilators provides balanced ventilation with energy-saving heat recovery. With a single room ventilator, you can enjoy a good indoor climate together with family and friends.





Single room ventilators in combination with existing ventilation solutions

Before installing a single room ventilator, you should know what sort of ventilation you already have.

A Flexit single room ventilator is an excellent upgrade in existing houses with poor or no ventilation. As well as providing filtered and tempered fresh air, single room ventilators recover heat.

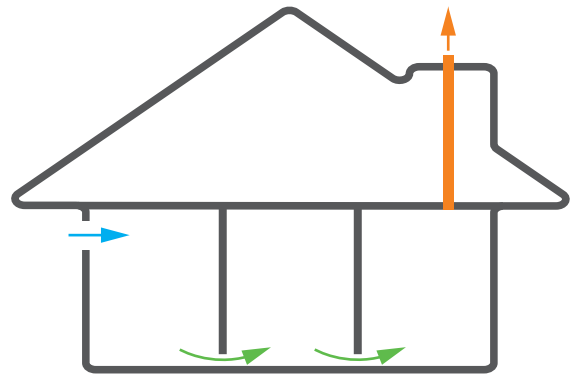
Older solutions with natural ventilation or an exhaust system generates cold draughts and unfiltered air as well as heat losses. Installing single room ventilators is therefore a great improvement to such solutions.

Natural ventilation

This is the oldest form of ventilation and is still found in many houses. The system is based on warm, moist air being extracted naturally up through the roof via ducts from bathrooms and wet rooms, which in turn leads to fresh air being drawn in through vents in walls and/or windows.

When installing single room ventilators in such a house, it is important to ensure that warm, moist air is not drawn back down through the extract air ducts.

We recommend installing single room ventilators in single rooms where a better indoor climate and heat recovery is wanted. In this case, old vents and any extract air ducts in these rooms must be closed off. If you want to install single room ventilators in most of the house, you should consider a full balanced ventilation system instead. This will be a better and more economical solution.

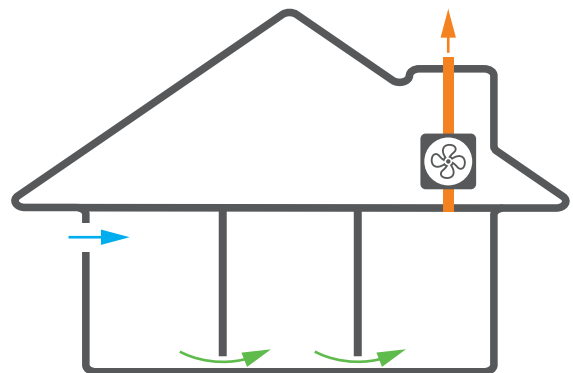


Mechanical extract air ventilation

Central mechanical extract air ventilation systems became common in houses built in the late 70s and are still a common ventilation solution. A typical installation has an extract air fan in the attic or in a cabinet over the kitchen hood. Ducts run from the fan to the kitchen hood and wet rooms. The fan ensures that warm, moist air is extracted from the house and fresh air is drawn in through fresh air vents in walls or slit valves in windows. The speed of the system is controlled from the kitchen hood and possibly via an extra switch in the bathroom/wet room.

This is a fully functional ventilation system, but results in energy loss, as it does not have any kind of heat recovery.

We recommend installing single room ventilators in single rooms where a better indoor climate and heat recovery is wanted. In this case, any fresh air vents in the same room must be closed off. If you want to install single room ventilators in most of the house, you should consider a full balanced ventilation system instead. This will be a better and more economical solution.



Balanced ventilation system

This is currently the best ventilation system and is usually standard in new homes. In such cases, single room ventilators would only be relevant in areas where no ducts from the central system are installed. For example in garage and storage rooms.

Colour codes

Colour codes showing air flow in a balanced ventilation system.

- Outdoor air
- Supply air
- Overflow
- Extract air
- Exhaust air

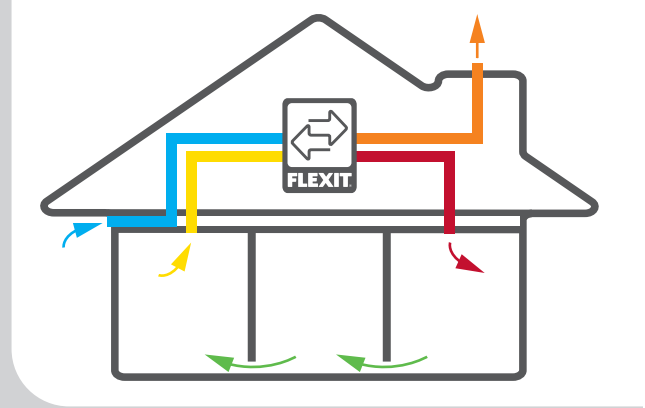
The fresh outdoor air that enters the ventilation unit.

The filtered and tempered fresh air supplied into the house.

Air transfer between rooms.

The contaminated indoor air that is extracted from wet rooms and kitchen.

The used air that is expelled from the house by the ventilation unit.



Flats

If you live in a flat, we recommend consulting the housing association/landlord regarding what is permitted, and what the flat already has in terms of ventilation solutions.



Scan the QR code

to watch the installation video and see how easy it is to install a Flexit single room ventilator in your home:







Remove the moisture from your basement

Without good ventilation, you can have a poor indoor climate with harmful moist and poor air.



Choose from four different single room ventilators



	Roomie Dual			Roomie Dual WiFi			Roomie One WiFi			Eq2		
	Provides continuous balanced ventilation with heat recovery.			Provides continuous balanced ventilation with heat recovery. Integrated WiFi for communication between several units and with app.			Balanced ventilation with heat recovery. For installation in pairs in large rooms.** Wireless communication between units via integrated WiFi means simple installation and operation.			Complete set with 2 single room ventilators and joint control. Provides balanced ventilation with heat recovery in large rooms.		
Flexit article number	115999			116000			115996			116001		
Room size (approx.***)	< 20 m ²			< 20 m ²			20 - 35 m ² **			20 - 30 m ²		
Connection of external sensor possible	Yes			Yes			Yes			No		
WiFi/App control	No			Yes			Yes			No		
Remote control.	Yes			Yes			Yes			No		
Control panel	Integrated			Integrated			Integrated			External control panel		
Wireless connection of several units	No			Yes			Yes			No		
Wired connection of several units	Yes			Yes (optional)			Yes (optional)			Yes		
With power cable and plug connected	Yes			Yes			Yes			No		
Speed	I	II	III	I	II	III	I	II	III	I	II	III
Air flow rate heat recovery mode m ³ /h	10	20	30	10	20	30	20**	35**	60**	15	30	50
Air flow rate extraction mode m ³ /h	20	40	60	20	40	60						
Sound pressure Lp(A) 3m dB	20	32	39	20	32	39	17*	28*	36*	19*	28*	37*
Sound power Lw(A) dB	37	49	56	37	49	56	35*	45*	54*	36*	45*	54*
Sound absorption D _{n,e,w} (C;Ctr)	35 (-1;-4)			35 (-1;-4)			38 (-1;-5)*					
Power consumption W	2.9	4.6	6.8	2.9	4.6	6.8	5.1*	5.6*	7.5*	1.6*	3.0*	5.6*
Filter	G3			G3			G3			G3		
Pollen filter possible	No			No			Yes			Yes		
Protection rating	IP 24			IP 24			IP 24			IP 24		
Operating temperature	-15°C to 40°C			-15°C to 40°C			-15°C to 40°C			-15°C to 40°C		
Wall thickness, mm	280 - 500 mm			280 - 500 mm			240 - 500 mm			350 - 500 mm		
Wall bushing diameter	160 mm			160 mm			160 mm			160 mm		
QR code <i>Scan the QR code to find out more about our single room ventilators at flexit.com</i>												

* Per unit

** Quoted values are for installation of two single room ventilators.

*** Specified room size is a recommendation. If a lower air exchange rate will suffice, the single room ventilators can cover a larger area.

We recommend choosing a single room ventilator based on its capacity at medium speed (stage II). This provides you the option of increasing the ventilation in the room when a lot of people are present or more moisture or odours than normal are being produced. Capacity at maximum speed can be used as a basis in the case of rooms where the ventilation requirements do not change. Please note that the sound level from the fan will be higher at maximum speed.

Our recommendations are based on achieving an air exchange rate of 1,2 m³/h/m² floor area.

Accessories

For Roomie One/Eq2



Hood alu, grey
Art.No. 116003



Hood thin, grey
Art.No. 116004



Filter G3 x 2
Art.No. 116007



Filter G2+F8
Art.No. 116008

For Roomie One/Eq2/ Roomie Dual



Air duct Ø160
Length 700 mm
Art.No. 116010



Air duct Ø160
Length 500 mm
Art.No. 116011

For Roomie Dual



Hood steel, grey
Art.No. 116006



Filter G3 x 2
Art.No. 116009



Air separator
Art.nr. 116022

Find out more about accessories at flexit.com

Installation video

Scan the QR code to watch the installation video and see how easy it is to install a Flexit single room ventilator in your home.



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

Tel.: +46 (0)10-209 86 00
export@flexit.com

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BETTER INDOOR CLIMATE