



WHAT IS IN THE AIR WE BREATHE?

Breathing clean fresh air is essential for maintaining your health. Overpopulated cities, congested roads, fuming pipes of factories and plants, never-ending development and agricultural activities all have their adverse effects on the air environment. According to the research conducted by the World Health Organisation, the pollution of the air environment and indoor air is a major contributor to the morbidity and mortality around the world. Today 91% of the world population live in cities and have to deal with skyrocketing pollution. The most deleterious effects on the human health are attributed to nitrogen dioxide, harmful particulate matter and elevated ozone concentrations. Buildings under construction and renovation projects may also generate air pollution. A large-scale research of cases related to poor indoor air quality helped to identify the key factors which adversely affect our breathing environment:

50 %

Inefficient ventilation

Inadequate supply of fresh air or poor ducting efficiency.

30 %

Indoor pollutants

The presence of premises-specific pollutants (e.g. formaldehyde, solvent vapours, dust, and microbiological pollution).

10 %

Outdoor pollutants

Pollutants originating from external sources (e.g. vehicle exhaust fumes, pollen, fungal spores, smoke, and dust resulting from roadworks and construction work).



WHY DO WE NEED VENTILATION?



Fresh air

The basic purpose of ventilation is to supply clean fresh air into the room.



Balancing the pressure

Ventilation must be properly balanced. Low indoor pressure in the absence of supply units equipped with filters causes dirty outdoor air to seep in through various cracks and openings – moreover, if the walls and windows are air-tight, it will find its way in through the sewerage system if it isn't properly sealed.



A comfortable breathing environment

During the cold season extract fans remove warm stale air from the building while dry cold air enters the premises through cracks and leaks in window panes and door assemblies causing a degradation in the indoor air quality.

THE AIR WE BREATHE

Atmospheric air is vital for the functioning of the human body. Our metabolism relies on oxidation – that is, the reactions of various chemicals with the oxygen transported by the blood cells. Without the supply of oxygen there is no oxidation which means imminent death. Therefore, the purity and freshness of the air you breathe is something to be constantly aware of.

The air in flats and other indoor spaces is often rich in bacterial contamination, dust, all sorts of vapours, gases and other waste products of a big city causing constant exposure to air pollution.



It goes without saying that breathing such air in your own home is rather damaging your health than allowing to consume enough oxygen to sustain your normal body functions.



THE SOLUTION IS HERE!

To eliminate the above-mentioned health hazards, the treated room must be provided with a device to regularly extract damp stale air and replace it with fresh air. In this case the only reasonable and practical solution is an efficient supply and exhaust ventilation system. The Vents catalogue contains a wide range of equipment to ensure proper air exchange.



www.vents.ua

WAYS TO ORGANISE VENTILATION IN A PREMISE

CENTRALISED VENTILATION SYSTEMS

A single unit is responsible for exchanging the air in all the rooms of a house or a flat.



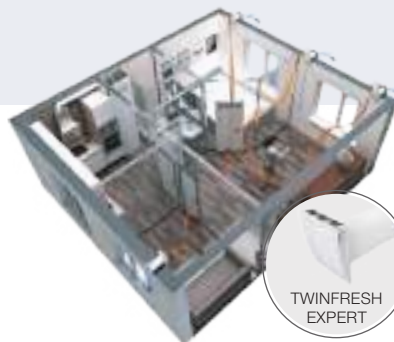
VUE P3B EC

Features

- This unit supplies fresh air which is cleaned by the built-in filters and extracts stale air from the room.
- A single air handling unit is capable of providing efficient ventilation for the entire home.
- The unit requires a system of air ducts.
- The ventilation modes are selected automatically by the built-in control system.
- Heat energy recovery helps save energy.
- The ventilation system design must prevent air leaks from the spaces filled with stale air into those with fresh air.
- A properly designed system is essential for ensuring an intensive air exchange essential to the occupant comfort.
- The ventilation system operating modes are adjusted from a single point for all the spaces in the home.

SINGLE-ROOM VENTILATION SYSTEMS

Air supply and extract are carried out by a separate ventilation unit in each room.



TWINFRESH EXPERT

Features

- Fresh air intake, filtration and stale air exhaust to outside.
- Compact ventilators do not require any additional elements or ducts, they are ready for use and designed for direct wall mounting in the outer walls of buildings.
- An individual air flow adjustment is possible for each room of a house or an apartment.
- It is necessary to determine only the performance of the unit at design phase, which significantly simplifies the calculations.
- Low fan power due to direct air discharge contributes to low-noise operation.
- Heat recovery and humidity balance in the premises are achieved through the use of heat exchangers.
- Reduce heating costs in winter and air conditioning costs in summer.

SINGLE-ROOM VENTILATION SYSTEM ARRANGEMENT

Single-room ventilation system is the most modern and practical solution for creating a comfortable breathing environment and necessary air exchange in reconstructed premises, new and newly settled houses or in residential renovated apartments.

Single-room ventilation improves fire safety due to the absence of air ducts between individual spaces.

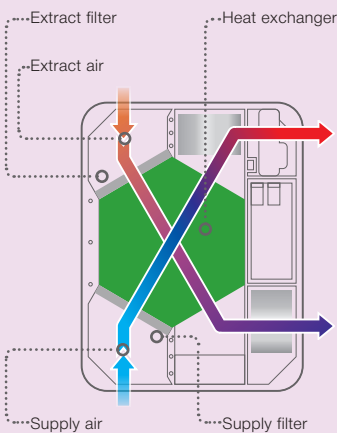
Fresh air is supplied through a short air duct in the wall, and the unit does not spend energy on overcoming the resistance of long ducts.



UNITS WITH A PLATE HEAT EXCHANGER (MICRA, DVUT)



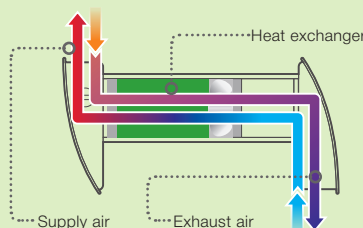
- Ensure comfortable breathing environment in a particular room.
- Each space is ventilated on demand.
- Unit speed is set automatically to ensure the proper air quality.
- Direct mounting into the wall.
- Mounting into thin walls without reducing efficiency.
- Simple design makes it fit into any interior.



UNITS WITH A CERAMIC HEAT EXCHANGER (TWINFRESH)



- Ensure a comfortable breathing environment in a particular room.
- Balanced ventilation when even number of units is installed.
- The unit is mounted directly into the wall.
- High efficiency.
- Moisture recovery and no condensate formed.
- Low noise level.
- Suitable for mounting into thin walls without reducing efficiency.
- May be equipped with filters with high filtration efficiency.
- Minimum indoor unit size and easy maintenance.
- May be equipped with an external hood for air outlet to the window aperture, which allows retaining appearance of the facade.

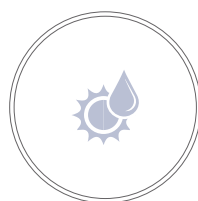




TWINFRESH VENTILATORS



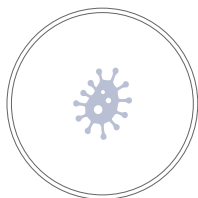
Supply clean fresh air
to the premises



Recover heat and provide
indoor humidity balance



Low energy demand



Prevent penetration of excessive humidity
and appearance of mould



Reduce the heating costs
in winter and air conditioning costs
in summer



Low noise level



Clean intake air from
dust, insects, exhaust
fumes

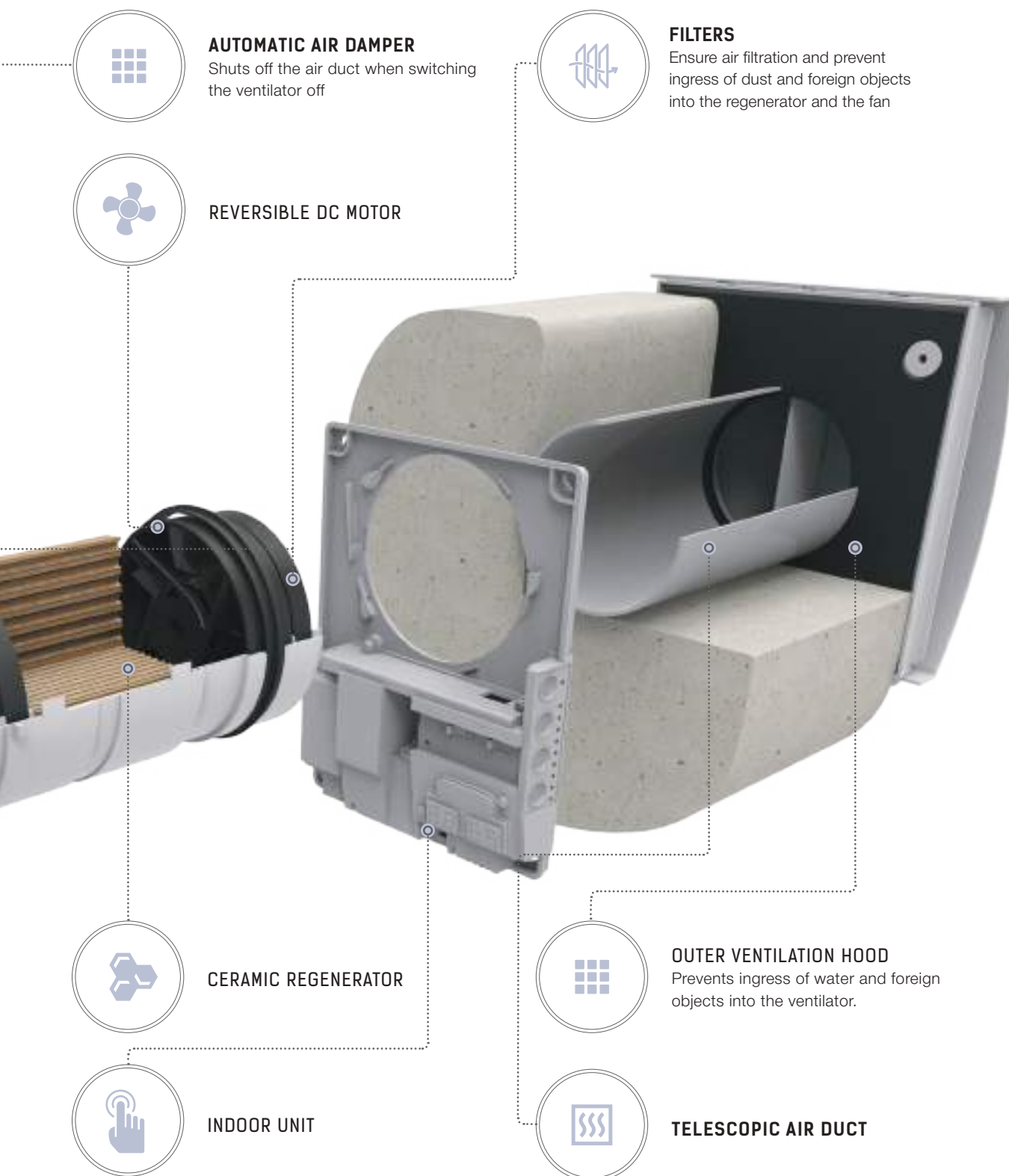


VENTILATOR DESIGN

The ventilator consists of an indoor unit with a decorative front panel, a fan, a ceramic regenerator, filters, an air duct with the sound absorbing material and an outer ventilation hood.* Filters ensure rough air filtration and prevent ingress of dust and foreign objects into the regenerator and the fan. The indoor unit is equipped with an automatic air damper or automatic shutters, preventing draft and backdraft during the ventilator standstill.

*The ventilator design depends on the selected model.







CYCLE I.

Stale air extraction

Warm damp stale air is extracted from a premise, simultaneously heating up and moisturising the regenerator.

Filter prevents ingress of contaminants into the regenerator.

In 70 s the ventilator automatically switches to air supply mode.

RETAINS HEAT

To ensure comfort inside a premise the units provide two operation modes: energy regeneration or extract and supply. Energy regeneration results from reversible operation of the ventilator, consisting of two cycles.



WHEN IT IS COLD OUTSIDE

Warm moistened air enters a room and in 70 seconds the ventilator automatically switches to air extract mode.

Fresh, but cold and dry outside air passes through the regenerator, becomes wet and warm due to the heat accumulated in it.

Filter removes dust and insects from the air.

WARM AIR

CYCLE II.

Clean air supply

COLD AIR

SAVES ELECTRICAL ENERGY

In order to save electrical energy the units can operate in energy regeneration or supply and extract mode.

Energy regeneration results from reversible operation of the ventilator, consisting of two cycles.

WHEN IT IS HOT OUTSIDE



CYCLE I.

Stale air extraction

Cold stale air is extracted from a premise, cooling the regenerator. Filter prevents ingress of contaminants from air.

In 70 s the ventilator automatically switches to air supply mode.



Cold air enters a premise, and in 70 seconds the ventilator switches to air extract mode.

Fresh warm outside air passes through the regenerator and becomes cool due to the cold accumulated in it. Filter removes dust and insects from the air.

CYCLE II.

Clean air supply





EFFECTIVE VENTILATION FOR VARIOUS TYPES OF PREMISES

*The area is approximate and depends on the ventilation standards in the user's country.



THE ROOM AREA IS UP TO 15 m²





TwinFresh Expert provides comfortable breathing environment in small premises. Modern control system, easy mounting and many other additional options are designated for effective ventilation in your house.

№	Picture	Model	Number	Room area*	Internet address
1		TwinFresh Expert RW-30-14 V.2	2	15 m²	
2		VN	1		



THE ROOM AREA IS UP TO 40 m²






TwinFresh Easy is a functional ventilator. Provides comfortable breathing environment in small premises.

№	Picture	Model	Number	Room area*	Internet address
1		TwinFresh Easy RL7-50-17	4	Up to 40 m²	
2		iFan Wi-Fi	1		

THE ROOM AREA IS UP TO 108 m²

TwinFresh Comfo – clean and fresh air in your house.
Perfect solution for large premises: ventilators operate in pairs to ensure a comfortable breathing environment, effortless mounting, automatic draft shutoff by air shutters, easy control.



№	Picture	Model	Number	Room area*	Internet address
1		TwinFresh Comfo RB1-85-14 + SF TwinFresh R50 F8 (filter F8)	2	108 m ²	
2		TwinFresh Comfo RB1-50-14	2		
3		IFan Wi-fi	1		
4		TwinFresh Comfo RB1-85-14	2		





TOP 5 REASONS

TO CHOOSE TWINFRESH EXPERT

01

YOU CANNOT IMAGINE YOUR LIFE WITHOUT A SMARTPHONE

All domestic appliances are at your disposal at any time.

02

YOU HAVE A SMART HOME SYSTEM

And plan to integrate the ventilation system into it.

03

NO WIRES

All connections are only wireless.

04

COMFORTABLE BREATHING ENVIRONMENT WITHOUT EFFORTS

Let the sensors decide which ventilation speed to choose.

05

SAY «NO» TO DRAFTS!

Fully automatic air damper prevents drafts at the start.

TO CHOOSE TWINFRESH EASY

01

APPROPRIATE BREATHING ENVIRONMENT IN EVERY ROOM

Ensures independent ventilation in every room.

02

NO SIGN OF DRAFT

After all, you control it yourself.
It is enough to turn an air damper to shut off air supply.

03

LOW NOISE

Minimal noise level makes you forget you have ventilation system at home.

04

ABSOLUTELY FRESH AIR

With the filters (option) for additional purification.

05

EASY CONTROL

You can control ventilation system by simply pushing one button – in case you have guests or sleep.

06

IT IS ENERGY-SAVING

Saves costs for heating in winter and cooling in summer.

TOP
6
REASONS







TOP 7 REASONS

TO CHOOSE TWINFRESH COMFO

01

YOUR HOUSE IS LARGE

It is difficult to control all rooms.
That is the reason for combining all ventilators within one network.

02

NIGHT MODE

At night time ventilation system operates at the lowest speed.

03

AUTOMATIC SHUTTERS

Protect your house from drafts when the ventilation system is off.

04

CLEAN AND FRESH AIR

With additional purification filters.

05

HUMIDITY SENSORS

Ventilation system automatically switches to higher speed when humidity is high, protecting the house from dampness and mould.

06

EASY MOUNTING AS ONE-TWO-THREE

You need only to mount it, plug into a socket and use!

07

PASSIVE AIR SUPPLY

When the shutters are open, fresh air enters a room even if the ventilator is off.



TWINFRESH

	TwinFresh Expert RW-30-14 V.2	28
	TwinFresh Easy RL7-50-17	40
	TwinFresh Easy-D RL7-50-17	40
	TwinFresh Comfo RB1-50-14	52
	TwinFresh Comfo RB1-85-14	52
	TwinFresh Comfo RA1-25-14	64
	TwinFresh RA-50-14	76
	Solo ventilator	88

Equipment selection table

100

TWINFRESH
EXPERT
RW-30-14 V.2



TWINFRE

Power from

1.8 W

Air flow up to

30 m³/h

Sound pressure level

21 dBA



SH

Exclusive ventilator TwinFresh Expert RW-30-14 V.2 ensures fresh and clean air in the room 24 hours a day.

Being non-ducted, the unit can be easily mounted, without requiring additional costs.

The unit is controlled by the mobile application from anywhere in the world.



**COMFORT AND
SIMPLICITY**

MODERN

Exclusive ventilator with wireless control.

ENERGY-EFFICIENT

Energy efficiency of the class A+ means preserving natural resources and reducing costs for your house upkeep.

CARING

Fresh and clean air is provided by a special cartridge consisting of a fan, a regenerator, and filters with high filtration efficiency.



Air flow of just one ventilator is enough to provide the room up to 15 m² with fresh air.



It is enough to have only one ventilator operating in direct and reversible modes to provide air supply and extract.



Filters (G3) have antibacterial treatment. Cleaning the filters of dust is done by a vacuum cleaner or water flushing. The antibacterial treatment effect is kept.

EASY CONTROL!

Mobile applications are designated to simplify our daily routine: from buying airline tickets to ordering office lunches.

Smartphone allows to control all appliances in the house, including climatic ones.

And what about small units?

We have good news: small ventilator can be also controlled from your smartphone!



Download the VENTS TWINFRESH mobile app and control all your «Experts» in the house just from your smartphone!

The control buttons are also duplicated on the ventilator casing:

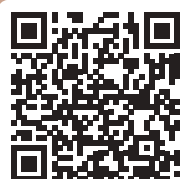
- ON/OFF;
- Speed selection;
- Operation mode selection: ventilation or regeneration.

It is possible to control all the ventilators simultaneously by connecting them to a single Wi-fi network. In this case all ventilators (Slaves) will respond to a signal from the Master ventilator only.

Smartphone, control panel or sensor control can be applied only to Master.



Vents TwinFresh V.2
is available in Google Play Market
and App Store



Download on the
App Store



Google Play

ADVANTAGES



Trendy ventilator design.



Can be mounted inside a prepared hole (from Ø 100 mm) in a wall.



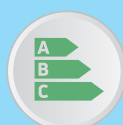
Wireless connection of all units to a single Wi-Fi network, without routing the cables.



Automatic drafts shutoff when the ventilator is off due to the hermetic damper.



Ventilation of premises with the area of about 15 m² (the area is approximate and depends on the ventilation standards in your country).



High efficiency – 81%.



A humidity sensor.



Connection of an external relay CO₂ sensor or other external relay sensors.

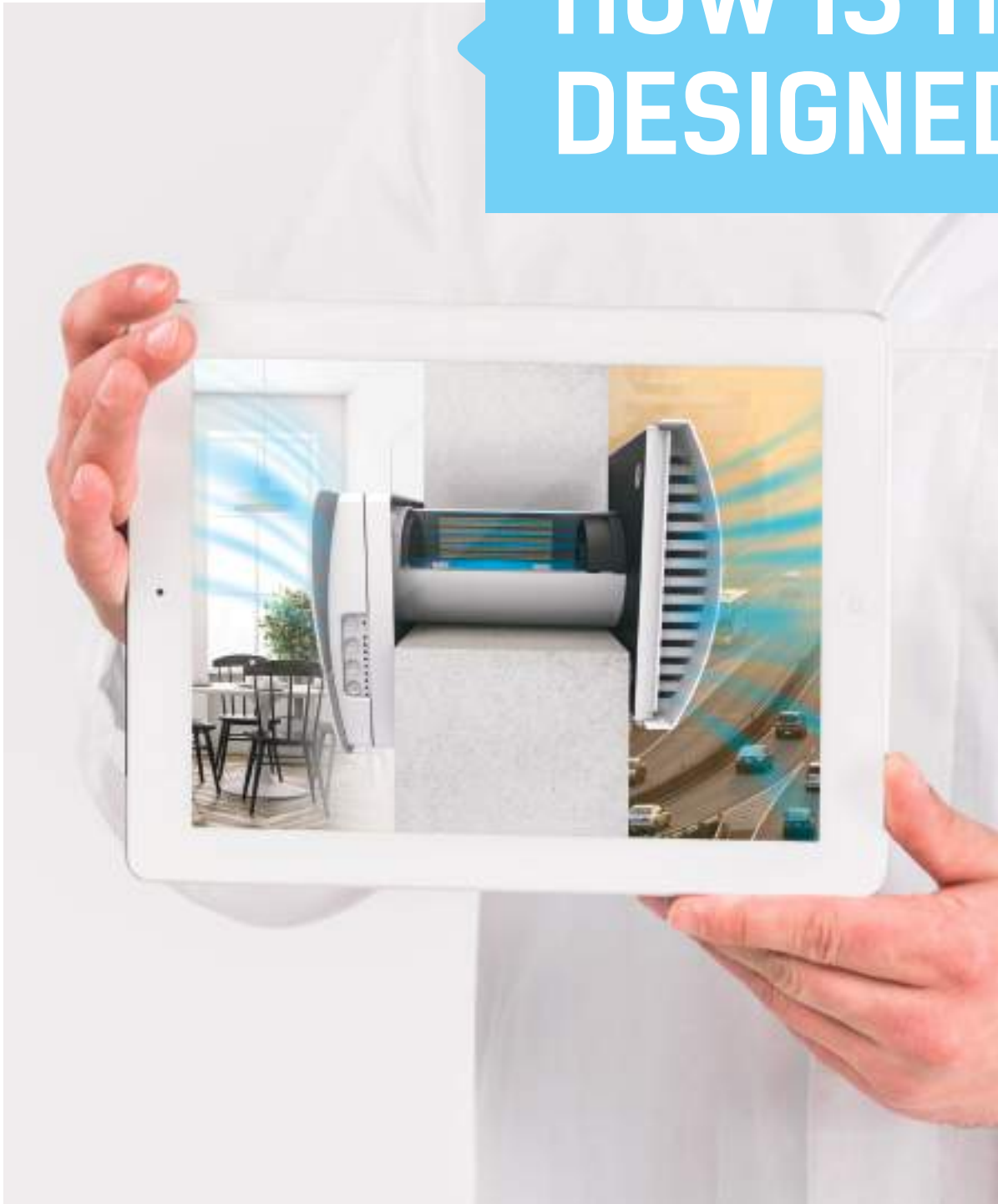


Noise at the level of human whisper (21-31 dBA).



Simple mounting and maintenance.

HOW IS IT DESIGNED?



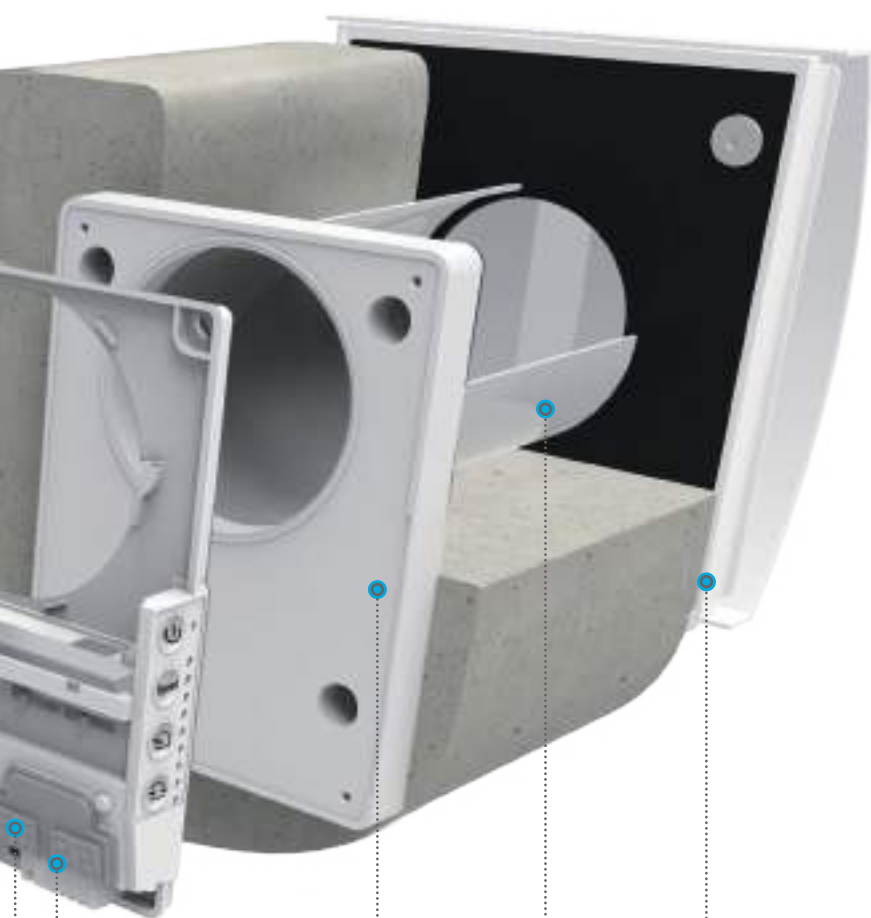
**AUTOMATIC DAMPER**

Shuts off the air duct when the ventilator is switched off

**CARTRIDGE**

Consists of a fan, a regenerator and filters. Generates air flow, produces energy recovery and air purification.

**WI-FI ANTENNA****HUMIDITY SENSOR**



MOUNTING FRAME (OPTIONAL)

Facilitates mounting of the ventilator in thin walls with the thickness from 135 mm.



TELESCOPIC AIR DUCT



OUTER VENTILATION HOOD

Outer ventilation hood protects the ventilator from ingress of water and foreign objects



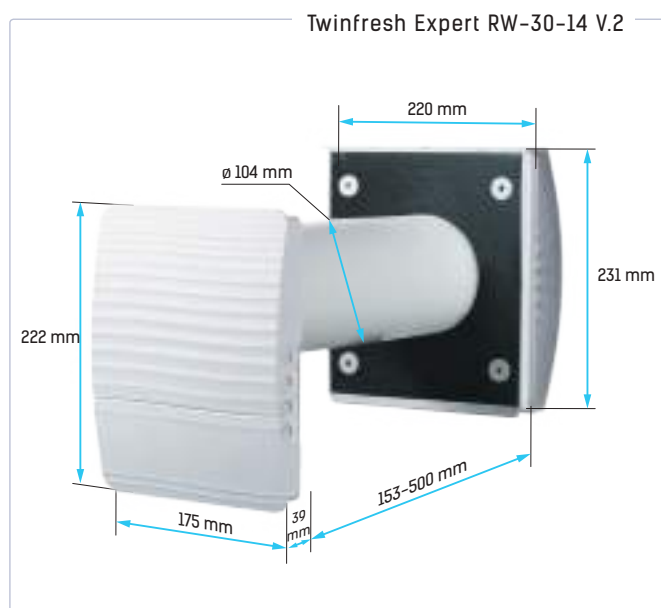
If the wall thickness is less than the cartridge length, the unit should be supplemented with a mounting frame for thin walls



TECHNICAL DATA

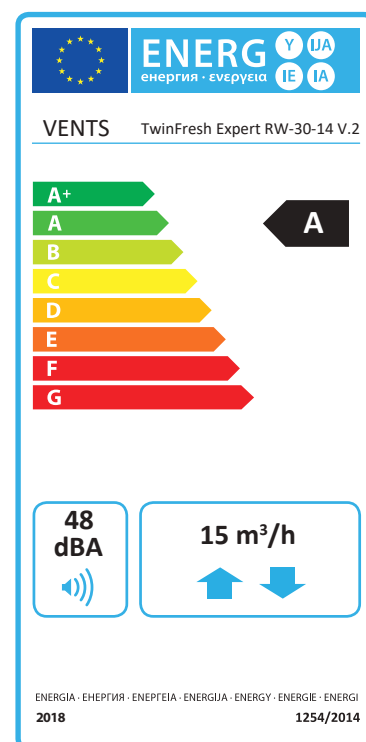
Speed	I	II	III
Unit voltage [V/50 (60) Hz]	100–240		
Power [W]	1.80	3.00	4.40
Current [A]	0.027	0.037	0.051
Air flow in ventilation mode [m³/h (l/s)]	10 (3)	20 (6)	30 (8)
Air flow in energy recovery mode [m³/h (l/s)]	5 (1)	10 (3)	15 (4)
SFP [W/l/s]	1.30	1.08	1.06
Filter	G3		
Transported air temperature [°C]	-15...+40		
Sound pressure level at 1 m distance [dBA]	30	37	40
Sound pressure level at 3 m distance [dBA]	21	28	31
Outdoor sound pressure attenuation in accordance with DIN EN 20140 [dBA]	42		
The classification of the indoor/outdoor air tightness, according to EN 13141-8 [m³/h]	D1		
Heat recovery efficiency in accordance with DIBt LÜ-A 20 [%]	≤ 81		
Protection class	IP24		

OVERALL DIMENSIONS




























ECODESIGN

Specific energy consumption (SEC) [kWh/(m ² .a)]	Cold		Average		Warm	
	-79	A+	-38	A	-15	E
Type of ventilation unit	Bidirectional					
Type of drive installed	Three-speed					
Type of heat recovery system	Regenerative					
Thermal efficiency of heat recovery [%]	71					
Maximum air flow rate [m ³ /h]	15					
Power [W]	4.4					
Sound power level [dBA]	48					
Reference air flow rate [m ³ /s]	0.005					
Reference pressure difference [Pa]	N/A					
Specific power input (SPI) [W/(m ³ /h)]	0.2					
Control typology	Local control					
Maximum internal leakage rate [%]	2.7					
Maximum external leakage rate [%]	N/A					
Mixing rate of bidirectional units [%]	1					
The classification of the airflow sensitivity to pressure variations, according to EN 13141-8 [%]	37					
The classification of the indoor/outdoor air tightness, according to EN 13141-8 [m ³ /h]	5.2					
Internet address	http://www.ventilation-system.com					
The annual electricity consumption (AEC) [kWh electricity/a]	Cold	Average		Warm		
	175	175		175		
The annual heating saved (AHS) [kWh primary energy/a]	Cold	Average		Warm		
	8294	4240		1917		



ACCESSORIES

Hoods	EH-14 white 100		Plastic hood. Colour options:	      White Black Grey Terracotta Brown Beige
	EH-14 chrome 100		Grey plastic outer hood with a brushed stainless steel cover	
	EH-17 white 100		Plastic hood. Colour options:	      White Black Grey Terracotta Brown Beige
	EH-2 grey 100		Grey painted stainless steel outer hood for thin walls	
	EH-2 chrome 100		Brushed stainless steel hood for thin walls	
Angular mounting	NP 100 white-0078		Kit for angular mounting with a white grille	
	NP 100 chrome-0079		Kit for angular mounting with a stainless steel outer grille	
Mounting elements	1810		Round telescopic air duct 500-1000 mm	
	T TwinFresh Expert R-30		Cardboard template for the unit indoor mounting	

For ventilator control	KV TwinFresh Expert RW		Wi-Fi connected sensor control panel
	C02-1		CO ₂ sensor with LED indication and sensor buttons
	C02-2		CO ₂ sensor
Filters	SF TwinFresh Expert R-30 G3		G3 filter kit (2 pcs.)



TWINFRESH
EASY
RL7-50-17

TWINFRESH
EASY-D
RL7-50-17

TWINFRESH

Power from

1 W

Air flow up to

50 m³/h

Sound pressure level from

12 dBA



The modern TwinFresh Easy RL7-50-17 ventilator will provide the room with clean and fresh air.

Filters with a high filtration efficiency will not let in harmful dust, resin and smog, and the internal noise insulation of the ventilator provides peace and silence at your home.



MODERN AND SILENT



FUNCTIONAL

The ventilator is controlled via a wall-mounted LCD panel or a remote control.

SILENT

The operation is silent but still very effective.

RELIABLE

Low power consumption as well as motor overheating protection will ensure long service life.



G3 filters provide coarse air filtration from dust and soot. The F8 filter with PM 2.5 filtration efficiency is available as an option.



Sound-insulating material suppresses street noise.











Two ventilators are controlled by means of one control panel.



Easy control via a wall-mounted LCD panel or a remote control.

Operation modes:

- Speed setup   
- Operation mode setup
 - Ventilation 
 - Regeneration 
- Timer setup
 - 4 hours at the speed III 
 - 8 hours at the speed I 
 - Optimal speed – II 

VARIETY OF OPTIONS

ADVANTAGES



Connection of two ventilators to a single control panel.



Manual hermetic damper shutoff when the unit is switched off to be 100 % sure there will be no drafts.



High efficiency – up to 92%.



Filter (F8) of high filtration efficiency can additionally purify air.



Simple unit control by a remote control or a wall-mounted panel without using other automatic devices.



Noise at the level of rustling leaves (12-20 dBA).



Operation at temperatures up to -30 °C when using appropriate accessories.



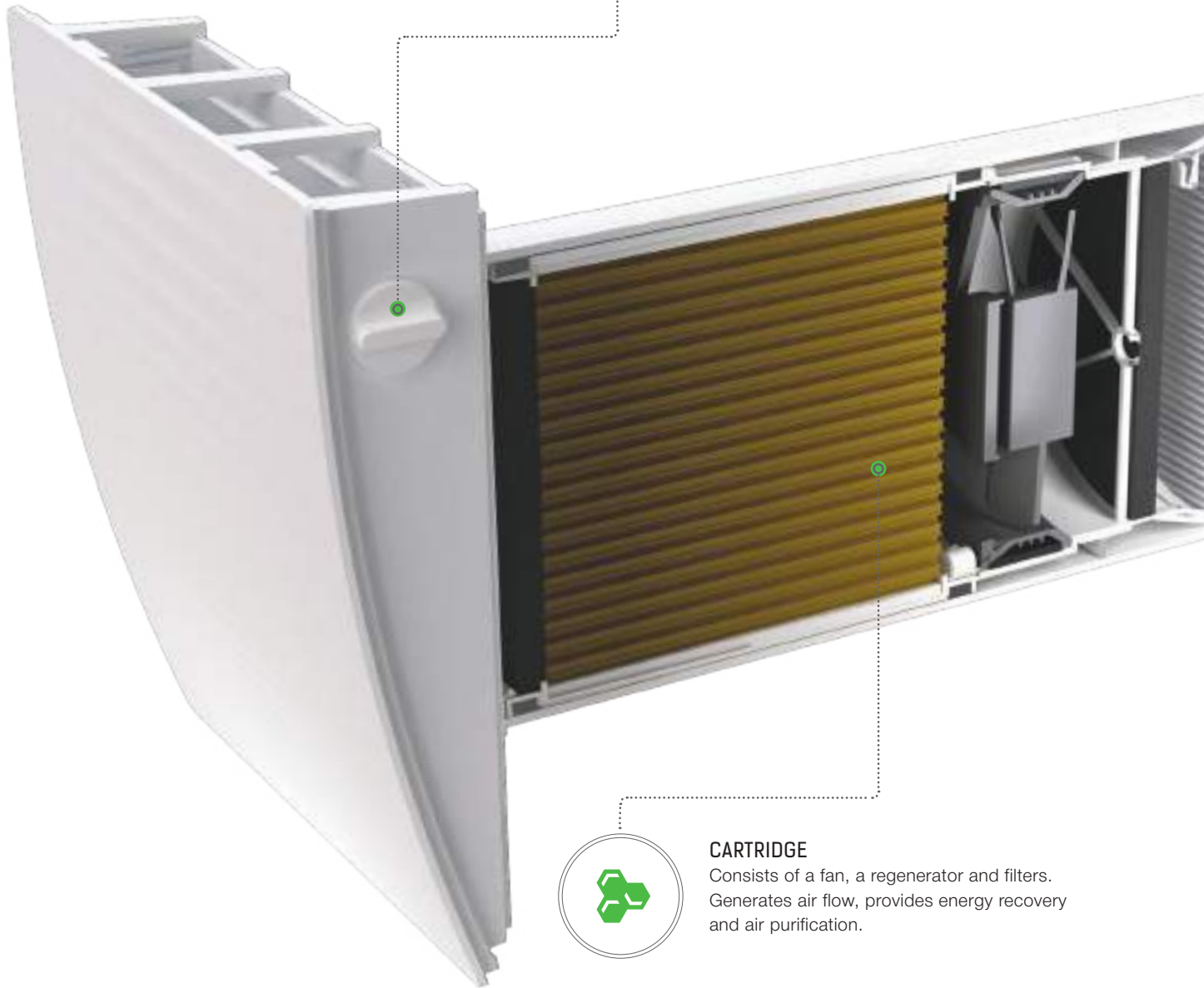
Ventilation of premises with the area of about 40 m² (the area is approximate and depends on the ventilation standards in your country).

HOW IS IT DESIGNED?



**INTERNAL GRILLE**

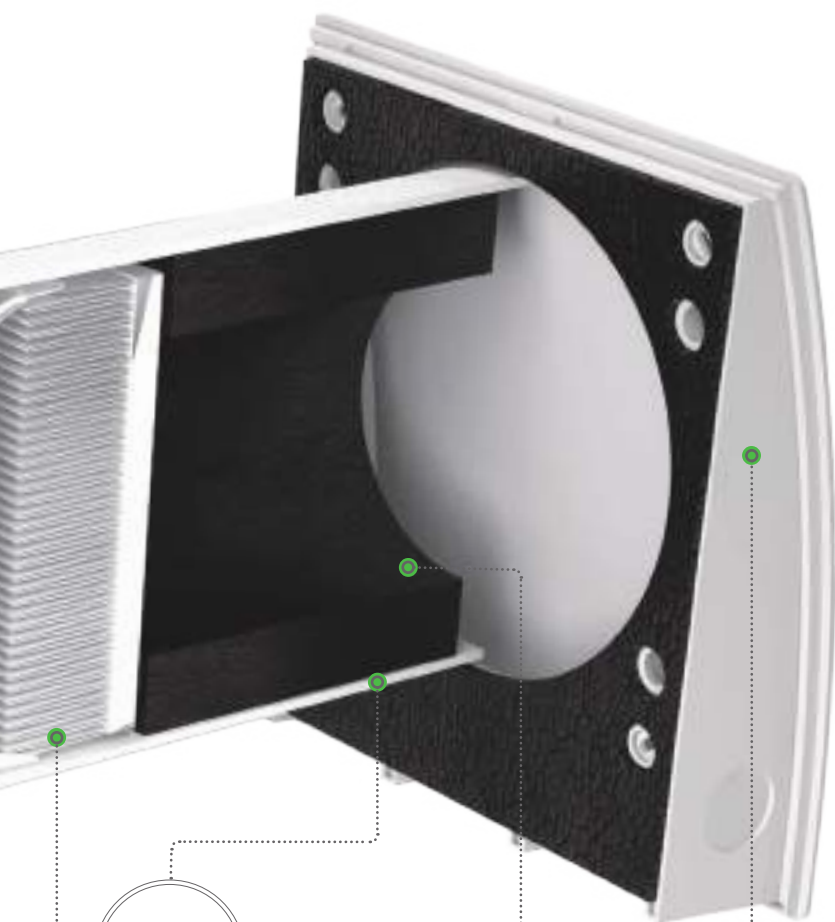
Equipped with a manually actuated air damper

**CARTRIDGE**

Consists of a fan, a regenerator and filters. Generates air flow, provides energy recovery and air purification.

**F8 FILTER (OPTIONAL)**

Provides PM2.5 purification efficiency of 99 %.



AIR DUCT



SOUND ABSORBING MATERIAL

A layer of sound-absorbing material for attenuation of noise generated during the ventilator operation



OUTER HOOD

Protects the ventilator from ingress of water and foreign objects

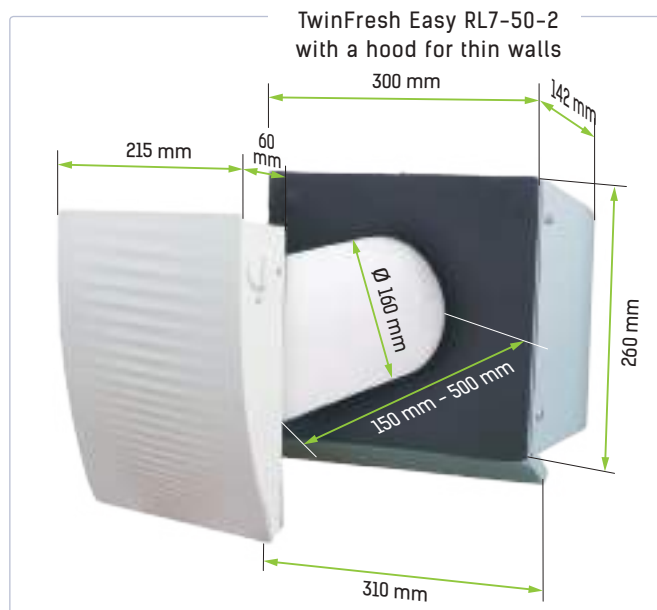


TECHNICAL DATA

Model	TwinFresh Easy RL7-50-17			TwinFresh Easy-D RL7-50-17		
Speed	I	II	III	I	II	III
Unit voltage [V/50 (60) Hz]	100-240 / 50-60			100-240 / 50-60		
Power [W]	1	2.1	4.3	2.37	3.8	7.61
Current [A]	0.017	0.025	0.041	0.033	0.047	0.080
Air flow in ventilation mode [m³/h (l/s)]	15 (4)	30 (8)	50 (14)	15 (4)	30 (8)	50 (14)
Air flow in energy recovery mode [m³/h (l/s)]	8 (2)	15 (4)	25 (7)	15 (4)	30 (8)	50 (14)
SFP [W/l/s]	0.48	0.50	0.62	0.57	0.46	0.55
Filter	G3 (F8 optional)					
Transported air temperature [°C]	-15*...+40					
Sound pressure level at 1 m distance [dBA]	21	27	29	21	27	29
Sound pressure level at 3 m distance [dBA]	12	18	20	12	18	20
Outdoor sound pressure attenuation in accordance with DIN EN 20140 [dBA]	41					
The classification of the airflow sensitivity to pressure variations, according to EN 13141-8 [%]	–	–	S3	–	–	S3
The classification of the indoor/outdoor air tightness, according to EN 13141-8 [m³/h]	D1					
Heat recovery efficiency in accordance with DIBt LÜ-A 20 [%]	≤ 92			≤ 92		
F8 filter filtration rate PM2.5 [%]	99					
Air flow with F8 filter applied [m³/h]	40					

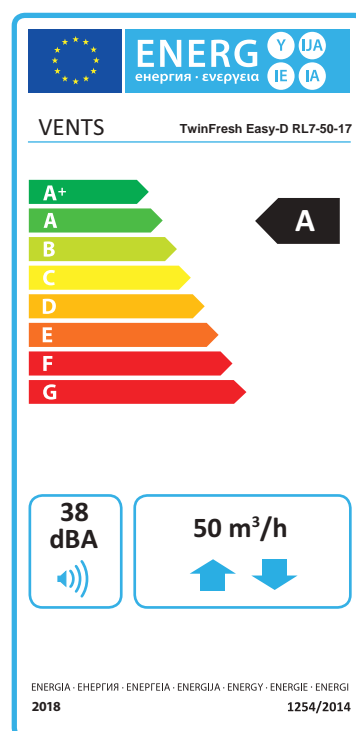
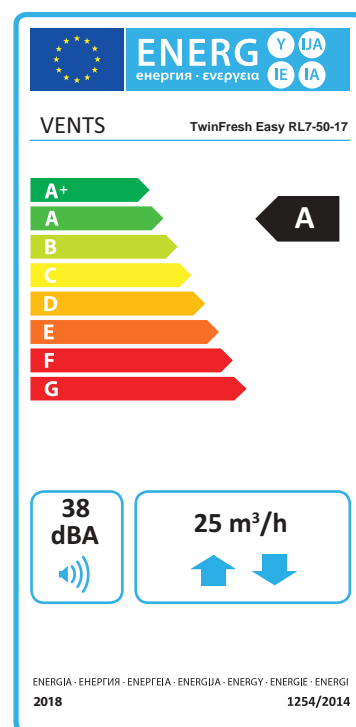
*-30 °C when the C3 TwinFresh cartridge and the EH-13 hood are applied.

OVERALL DIMENSIONS



























ECODESIGN




Model	TwinFresh Easy RL7-50-17						TwinFresh Easy-D RL7-50-17					
Specific energy consumption (SEC) [kWh/(m².a)]	Cold		Average		Warm		Cold		Average		Warm	
	-76	A+	-37	A	-14	E	-76.2	A+	-37	A	-15	E
Type of ventilation unit	Bidirectional											
Type of drive installed	Three-speed											
Type of heat recovery system	Regenerative											
Thermal efficiency of heat recovery [%]	76						76					
Maximum air flow rate [m³/h]	25						50					
Power [W]	4.3						7.6					
Sound power level [dBA]	38						38					
Reference air flow rate [m³/s]	0.004						0.008					
Reference pressure difference [Pa]	0						0					
Specific power input (SPI) [W/(m³/h)]	0.14						0.127					
Control typology	Clock control											
Maximum internal leakage rate [%]	2.7											
Maximum external leakage rate [%]	0											
Mixing rate of bidirectional units [%]	1											
The classification of the airflow sensitivity to pressure variations, according to EN 13141-8 [%]	26											
The classification of the indoor/outdoor air tightness, according to EN 13141-8 [m³/h]	2.4											
Internet address	http://www.ventilation-system.com											
The annual electricity consumption (AEC) [kWh electricity/a]	Cold		Average		Warm		Cold		Average		Warm	
	179		179		179		162		162		162	
The annual heating saved (AHS) [kWh primary energy/a]	Cold		Average		Warm		Cold		Average		Warm	
	8024		4140		1855		8024		4140		1855	







ACCESSORIES

Hoods	EH-14 white 160		Plastic hood. Colour options:	     
	EH-14 chrome 160		Grey plastic outer hood with a brushed stainless steel cover	
	EH-17 white 160		Plastic hood. Colour options:	     
	EH-2 grey 160		Grey painted stainless steel outer hood for thin walls	
	EH-2 chrome 160		Brushed stainless steel hood for thin walls	
	EH-13 white 160		White painted aluminium outer hood for cold climate	
	EH-13 chrome 160		Stainless steel ventilation hood for cold climate	
	MVVM 162 05		Ventilation hood for indoor mounting	
Grilles	MVMO 150 bV1s An		Round metal grille	
	MVM 152 bVs N		Round stainless steel hood	

Angular mounting	NP white 160		Kit for angular mounting with a white grille
	NP chrome 160		Kit for angular mounting with a stainless steel outer grille

Mounting elements	Duct 160-500		Round air duct (Ø 160, length – 500 mm) with a polystyrene plug
	Duct 160-700		Round air duct (Ø 160, length – 700 mm) with a polystyrene plug
	C3 TwinFresh		Cartridge for cold climate

For ventilator control	RC TwinFresh Easy RL-50		Remote control
	KV TwinFresh Easy RL-50		LCD control panel

Filters	SF TwinFresh Easy R-50 G3		G3 filter kit (2 pcs.)
	SF TwinFresh Easy R-50 F8		F8 filter (supplied with a plastic cup)



TWINFRESH
COMFO
RB1-50-14

TWINFRESH
COMFO
RB1-85-14

TWINFRE

Power from

4.5 W

Air flow up to

50 m³/h

Sound pressure level from

13 dBA

Power from

4.74 W

Air flow up to

85 m³/h

Sound pressure level from

19 dBA



The TwinFresh Comfo user-friendly ventilator ensures fresh and clean air with an ideal level of humidity in your house.

SH



**FUNCTIONAL
AND RELIABLE**



UNIVERSAL

Many units can be connected to one network.

EFFICIENT

The ventilator can operate in a passive supply mode: the air shutters are open providing a natural air flow.

USER-FRIENDLY

The design of the unit allows easy maintenance of the ventilator.



The humidity threshold in the room can be controlled by choosing one of three modes on the remote control.



Night mode
The ventilator switches to the first speed in the dark time of the day.



Easy mounting of the mounting plate by means of magnets.

EASY CONTROL



The TwinFresh Comfo series ventilators are equipped with a remote control.

Operation modes:

- Night mode

The integrated light sensor sends a signal to switch the ventilator to low speed mode.
- Speed switching
- Passive air supply

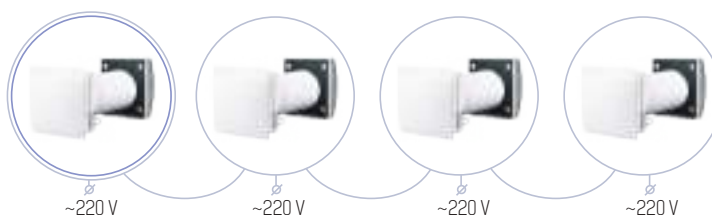
In this mode the shutters are open, but the fan does not operate.
- Air supply

In this mode all ventilators will operate in supply mode irrespective of the maximum air supply setting.
- Ventilation

All the ventilators in the network operate in permanent air extract or air supply mode. To ensure balanced ventilation at the stage of installation it is advisable to set one half of the ventilators to air supply mode and the other part of the ventilators to air extract mode.
- Ventilation with heat recovery
- Humidity control mode selection

To provide centralised control all ventilators should be connected to one network.

However, only Master responds to the signals from the control panel, the remote control, and the humidity sensor.





Simple mounting – you need only to mount it, plug into a socket and use!



The unit properly operates at temperatures up to -20 °C (-30 °C if it is equipped with a ventilation hood for cold climate).



Many units can be connected to one network by control cables.



Automatic drafts shutoff when the ventilator is off.



Ventilation of premises with the area of about 40 m² (the area is approximate and depends on the ventilation standards in your country).



High efficiency – up to 90%.



Integrated humidity sensor for the automated unit operation.



Control is provided by the remote control or buttons on the casing.



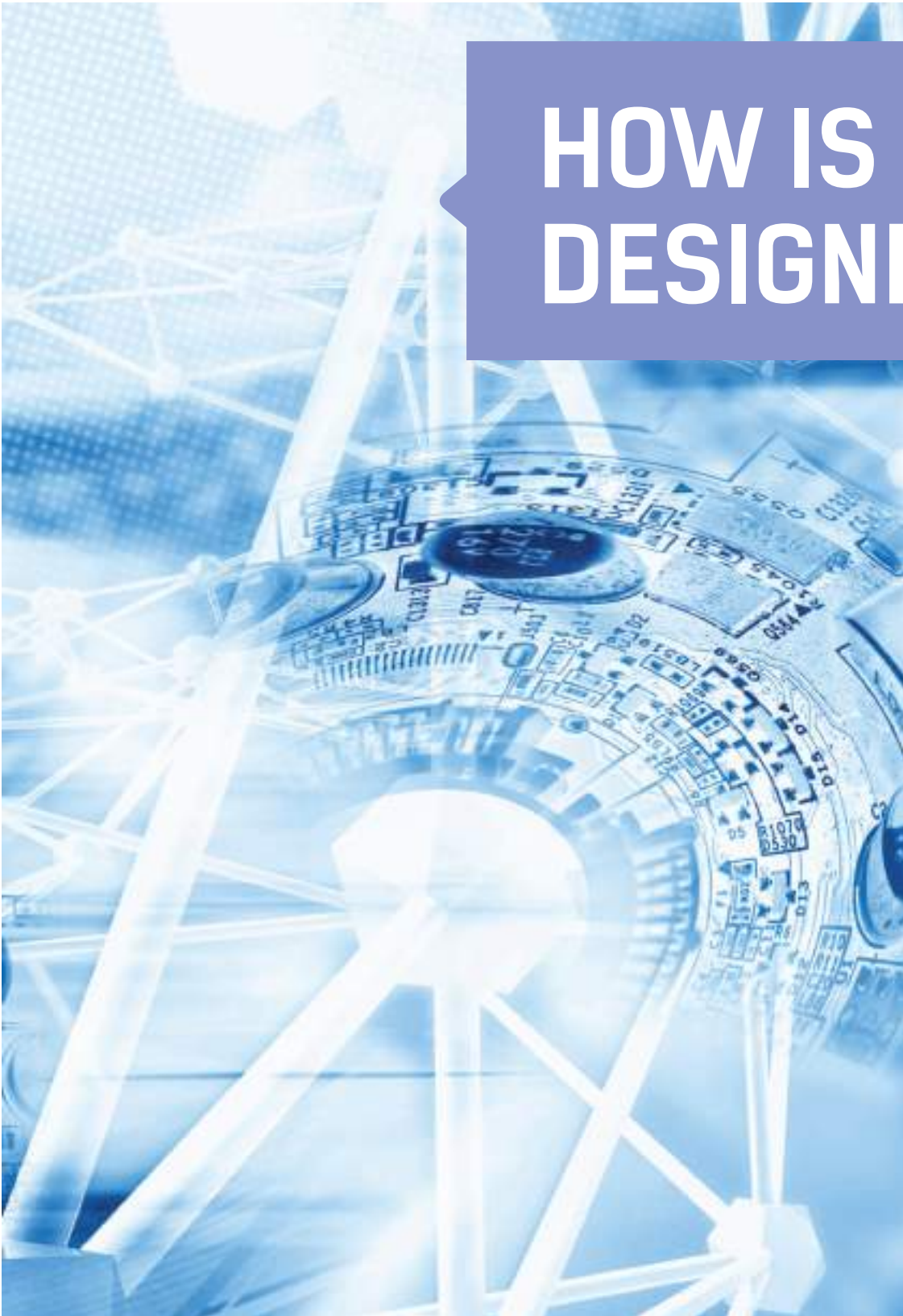
Noise level is from 13 up to 34 dBA.

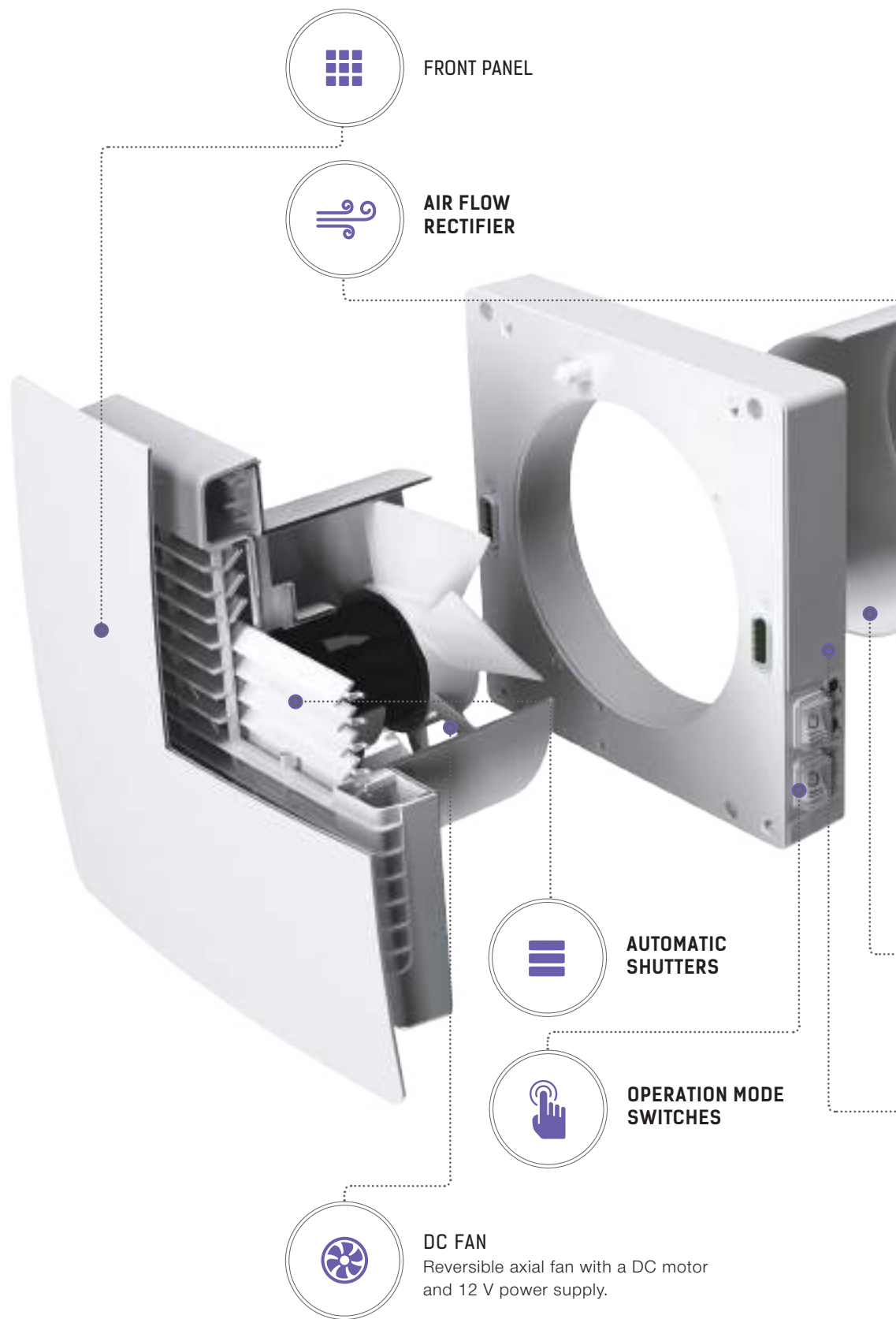


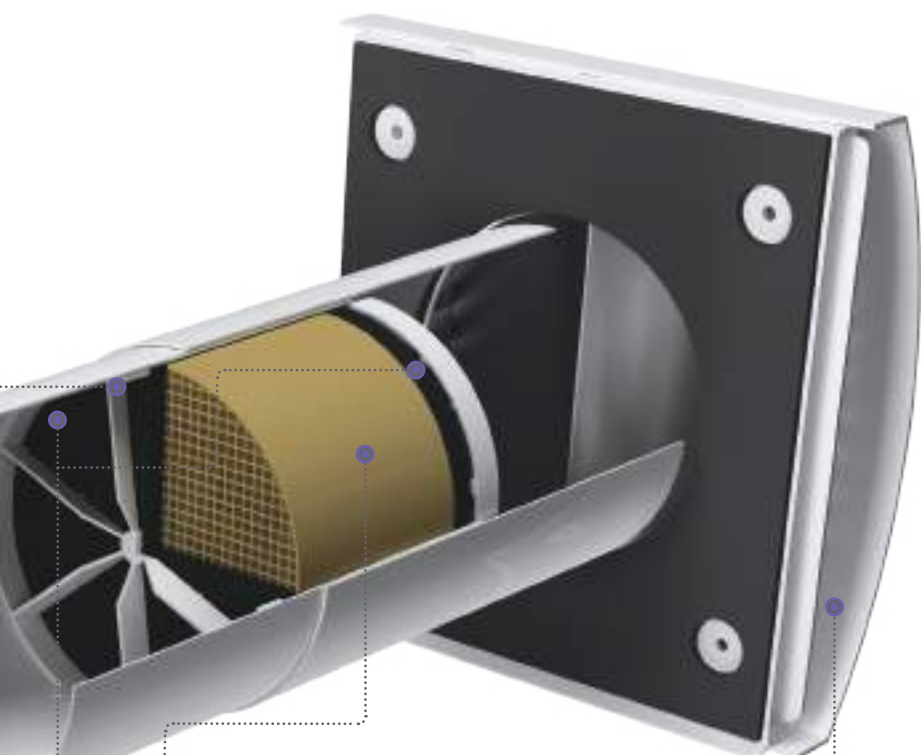
F8 filter of high filtration efficiency can additionally purify supply air.

ADVANTAGES

HOW IS IT DESIGNED?







CERAMIC REGENERATOR

High-tech ceramic energy regenerator with the regeneration efficiency of up to 90%



FILTERS

The G3 air filter provides supply and extract air filtration.

F8 filter is available as an option.



AIR DUCT



MOUNTING PLATE

Used as a mounting box for installation the ventilation unit on the wall and connecting the ventilator to power supply.



OUTER HOOD

Protects the ventilator from ingress of water and foreign objects.

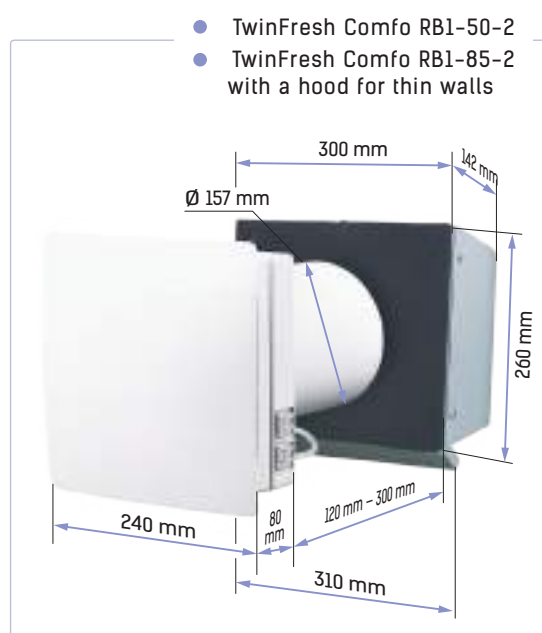
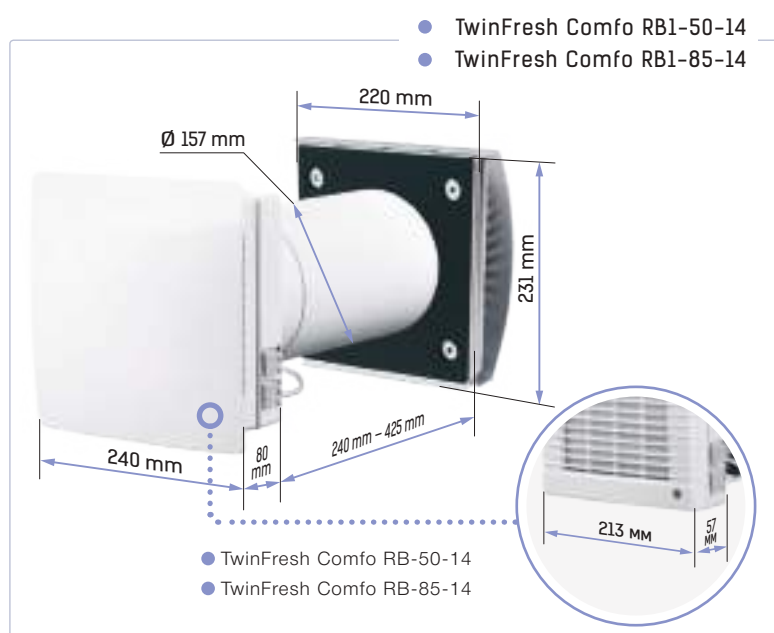


TECHNICAL DATA

Model	TwinFresh Comfo RB1-50-14			TwinFresh Comfo RB1-85-14		
Speed	I	II	III	I	II	III
Unit voltage [V/50 (60) Hz]	100-240 / 50-60			100-240 / 50-60		
Power [W]	4.5	5	7	4.74	6.56	9.65
Current [A]	0.024	0.026	0.039	0.034	0.050	0.071
Air flow in ventilation mode [m³/h (l/s)]	21 (6)	32 (9)	50 (14)	36 (10)	59 (16)	85 (24)
Air flow in energy recovery mode [m³/h (l/s)]	11 (3)	16 (4)	25 (7)	18 (5)	30 (8)	43 (12)
SFP [W/l/s]	1.54	1.12	1.01	0.95	0.8	0.82
Filter	G3 (F8 optional)					
Transported air temperature [°C]	-20*...+40					
Sound pressure level at 1 m distance [dBA]	22	29	32	29	35	44
Sound pressure level at 3 m distance [dBA]	13	20	23	19	25	34
Outdoor sound pressure attenuation in accordance with DIN EN 20140 [dBA]	40					
Heat recovery efficiency in accordance with DIBt LÜ-A 20 [%]	≤ 88			≤ 90		
Protection class	IP24					

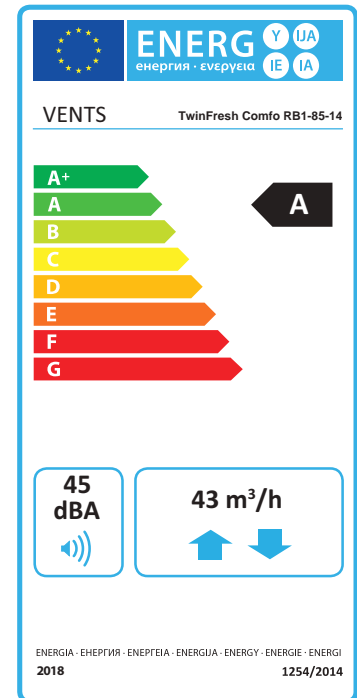
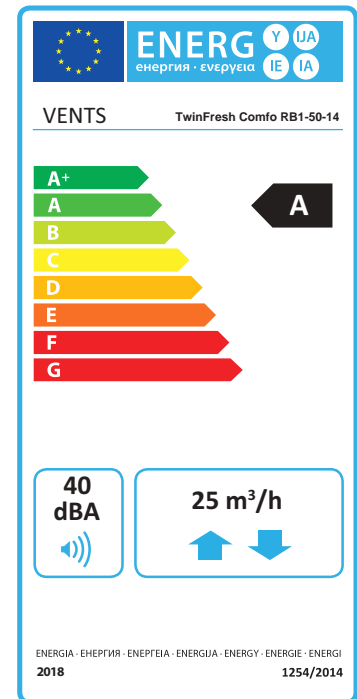
* -30 °C when the EH-13 hood is applied.

OVERALL DIMENSIONS























ECODESIGN



Model	TwinFresh RB1-50-14						TwinFresh RB1-85-14					
Specific energy consumption (SEC) [kWh/(m².a)]	Cold		Average		Warm		Cold		Average		Warm	
	-81	A+	-39	A	-14	E	-78	A+	-38	A	-15	E
Type of ventilation unit	Bidirectional											
Type of drive installed	Three-speed											
Type of heat recovery system	Regenerative											
Thermal efficiency of heat recovery [%]	80						69					
Maximum air flow rate [m³/h]	25						43					
Power [W]	7						9.65					
Sound power level [dBA]	40						45					
Reference air flow rate [m³/s]	0.004						0.008					
Reference pressure difference [Pa]	0						0					
Specific power input (SPI) [W/(m³/h)]	0.313						0.222					
Control typology	Local automatic control											
Maximum internal leakage rate [%]	2.7											
Maximum external leakage rate [%]	0											
Mixing rate of bidirectional units [%]	1											
The classification of the airflow sensitivity to pressure variations, according to EN 13141-8 [%]	-											
The classification of the indoor/outdoor air tightness, according to EN 13141-8 [m³/h]	-											
Internet address	http://www.ventilation-system.com											
The annual electricity consumption (AEC) [kWh electricity/a]	Cold	Average		Warm		Cold	Average		Warm			
	226	226		226		161	161		161			
The annual heating saved (AHS) [kWh primary energy/a]	Cold	Average		Warm		Cold	Average		Warm			
	8695	4445		2010		8205	4194		1897			








ACCESSORIES


Hoods	EH-14 white 160		Plastic hood. Colour options:	     
	EH-14 chrome 160		Grey plastic outer hood with a brushed stainless steel cover	
	EH-17 white 160		Plastic hood. Colour options:	     
	EH-2 grey 160		Grey painted stainless steel outer hood for thin walls	
	EH-2 chrome 160		Brushed stainless steel hood for thin walls	
	EH-13 white 160		White painted aluminium outer hood for cold climate	
	EH-13 chrome 160		Stainless steel ventilation hood for cold climate	
	MVVM 162 05		Ventilation hood for indoor mounting	



Grilles	MVMO 150 bV1s An		Round metal grille	
	MVM 152 bVs N		Round stainless steel hood	

Angular mounting	NP 60x204-0021		Kit for angular mounting with a white grille
	NP 60x204-0082		Kit for angular mounting with a stainless steel outer grille

Mounting elements	3805		Round telescopic air duct 300-500 mm
	3810		Round telescopic air duct 500-1000 mm

Kits for separate mounting	TwinFresh R-50-14 pre-installation kit		Pre-installation kit
	TwinFresh Comfo RB-50 completion kit		TwinFresh Comfo RB-50-14 completion kit
	TwinFresh Comfo RB1-50 completion kit		TwinFresh Comfo RB1-50-14 completion kit

For ventilator control	RC TwinFresh COMFO R-50		Remote control
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Filters	SF TwinFresh R50 G3		G3 filter kit (2 pcs.)
	SF TwinFresh R50 F8		F8 filter (supplied with a plastic cup)