



TWINFRESH  
**COMFO**  
**RB1-50-14**

TWINFRESH  
**COMFO**  
**RB1-85-14**

TWINFRESH

Power from

**4.5 W**

Air flow up to

**50 m<sup>3</sup>/h**

Sound pressure level from

**13 dBA**

Power from

**4.74 W**

Air flow up to

**85 m<sup>3</sup>/h**

Sound pressure level from

**19 dBA**



**SH**

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



**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 

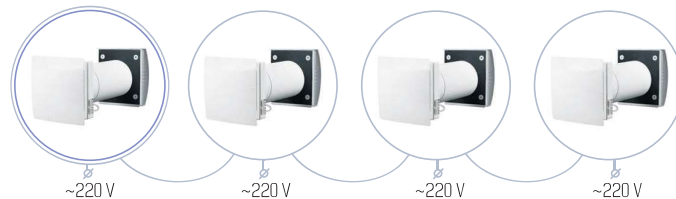
The integrated light sensor sends a signal to switch the ventilator to low speed mode.
- Speed switching
- Passive air supply 

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 m<sup>2</sup> (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.

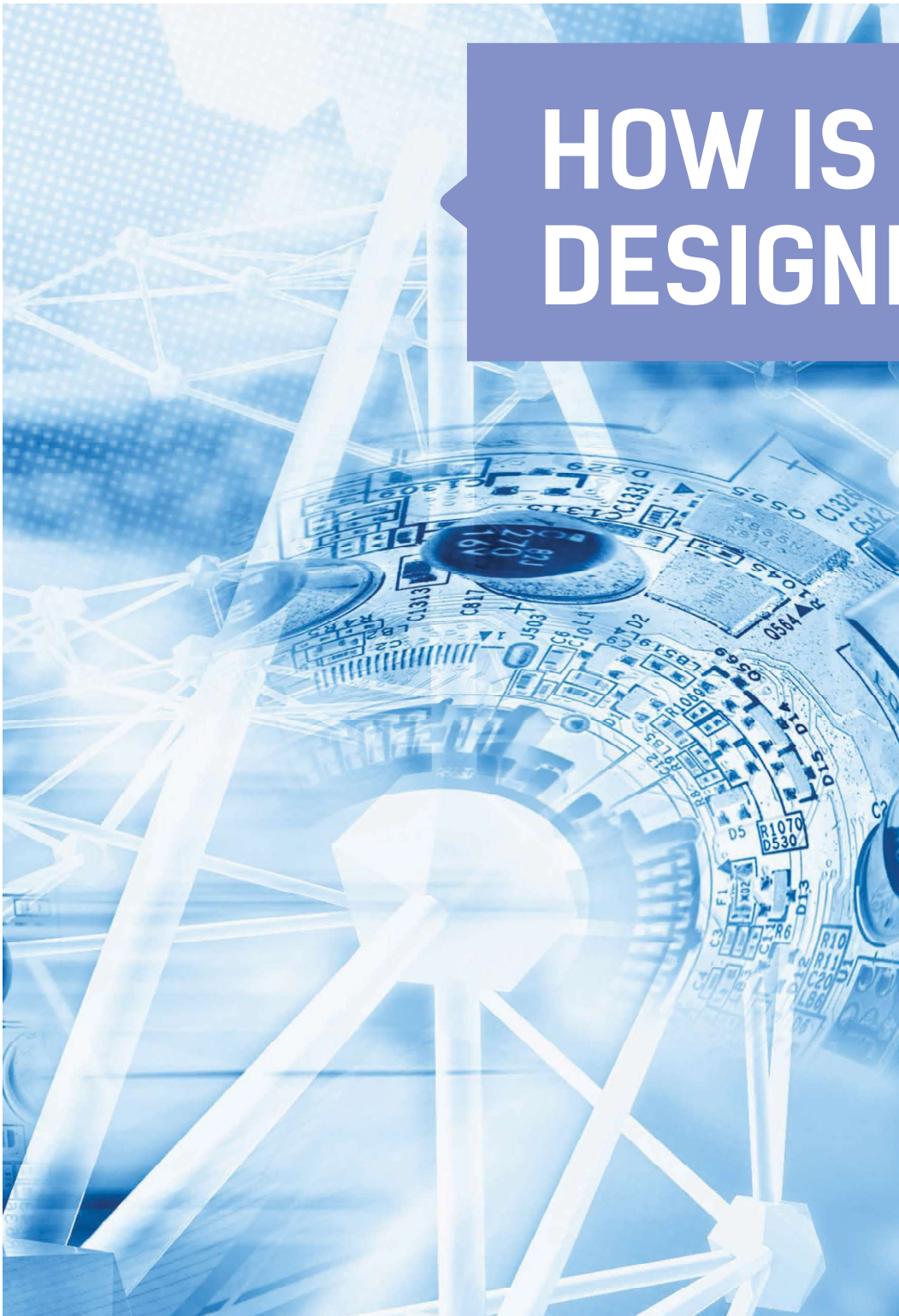


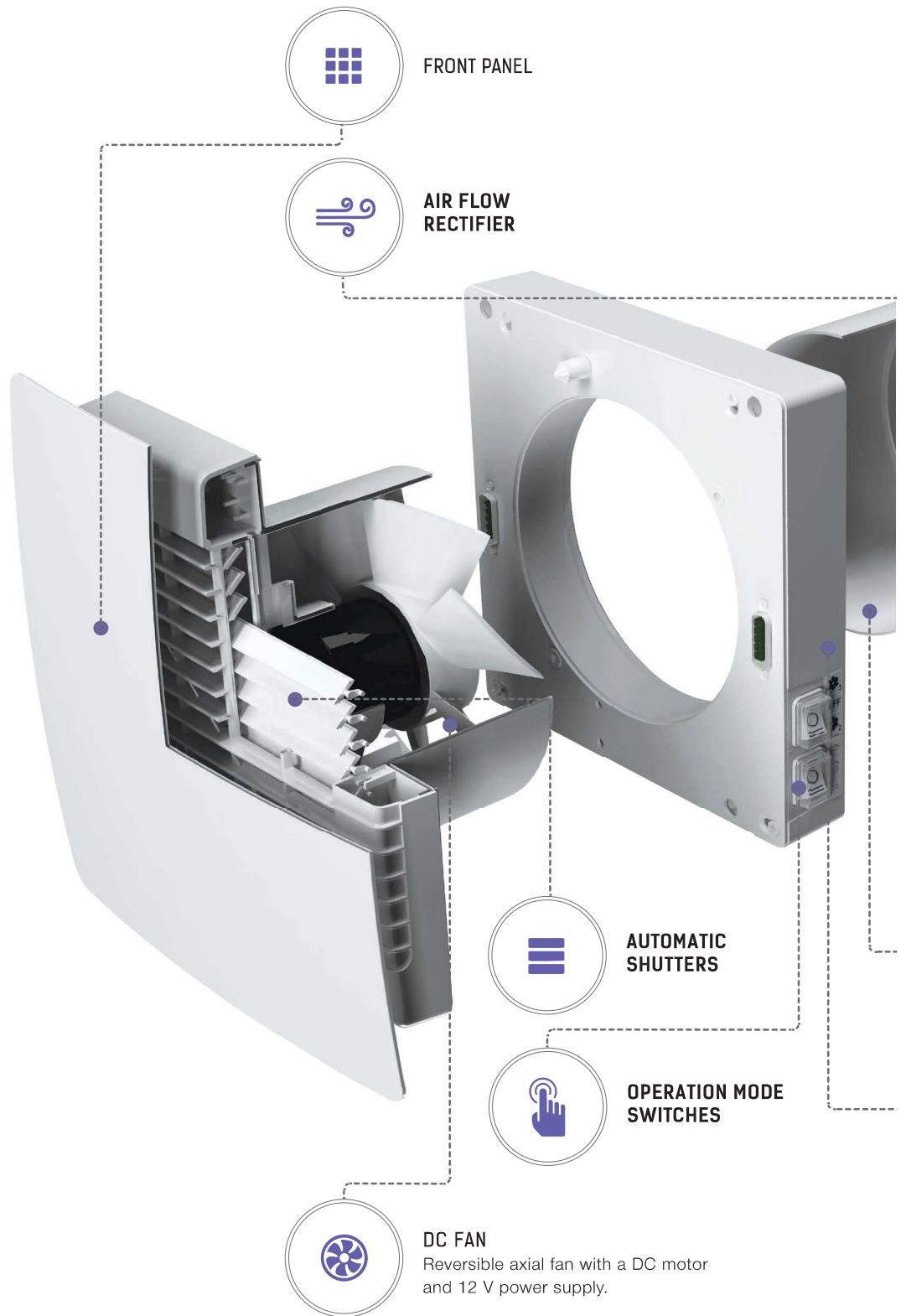
F8 filter of high filtration efficiency can additionally purify supply air.

## ADVANTAGES

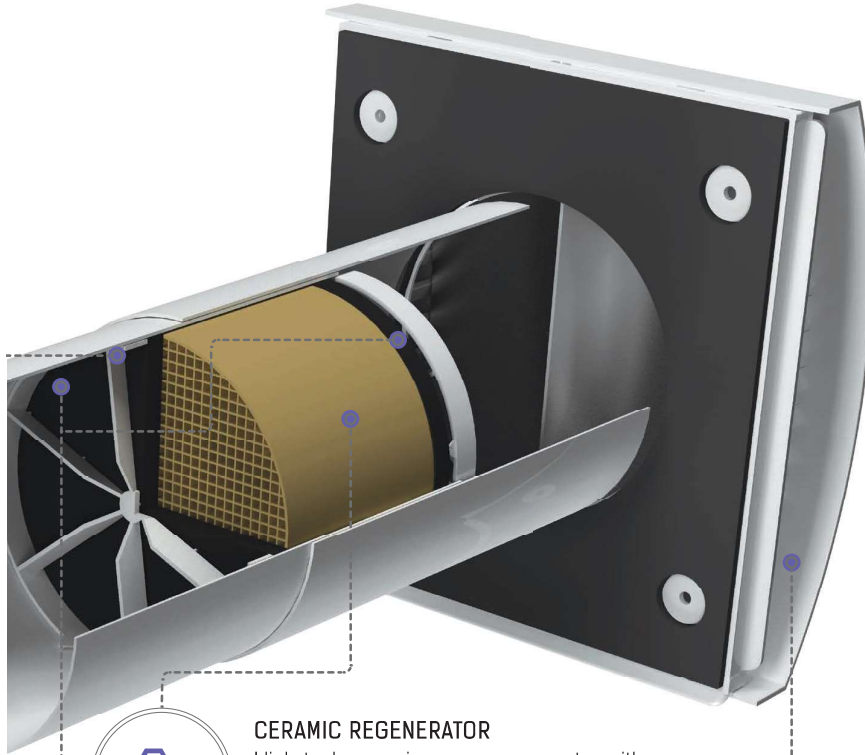


# HOW IS IT DESIGNED?



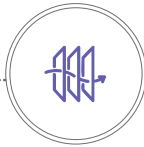






#### CERAMIC REGENERATOR

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.

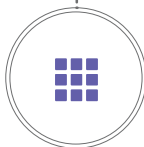


#### AIR DUCT



#### 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.

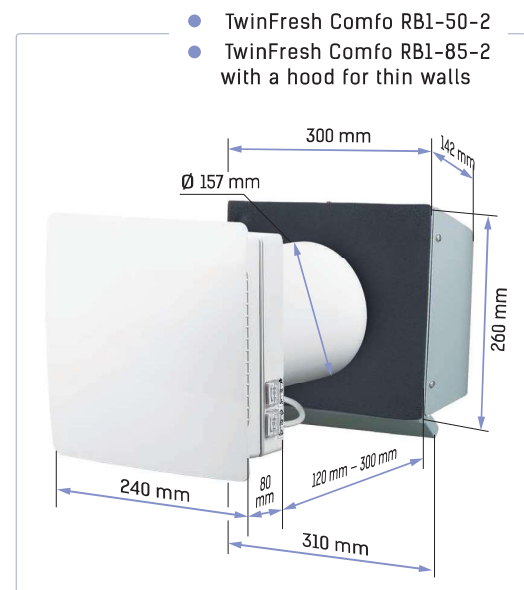
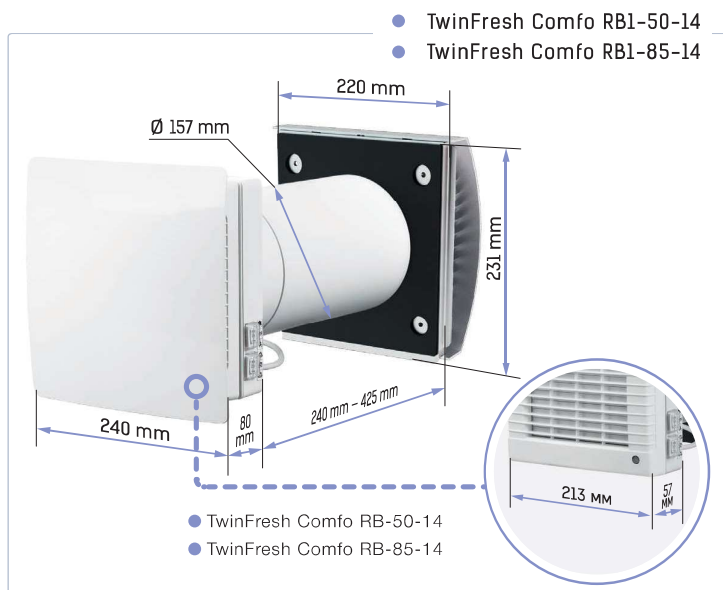


## TECHNICAL DATA

| Model  | TwinFresh Comfo RB1-50-14 |           |            | TwinFresh Comfo RB1-85-14 |            |            |
|--|---------------------------|-----------|------------|---------------------------|------------|------------|
|  | I                         | II        | III        | I                         | II         | III        |
| Speed  |                           |           |            |                           |            |            |
| 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 [m <sup>3</sup> /h (l/s)]                   | 21<br>(6)                 | 32<br>(9) | 50<br>(14) | 36<br>(10)                | 59<br>(16) | 85<br>(24) |
| Air flow in energy recovery mode [m <sup>3</sup> /h (l/s)]               | 11<br>(3)                 | 16<br>(4) | 25<br>(7)  | 18<br>(5)                 | 30<br>(8)  | 43<br>(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                      |           |            |                           |            |            |

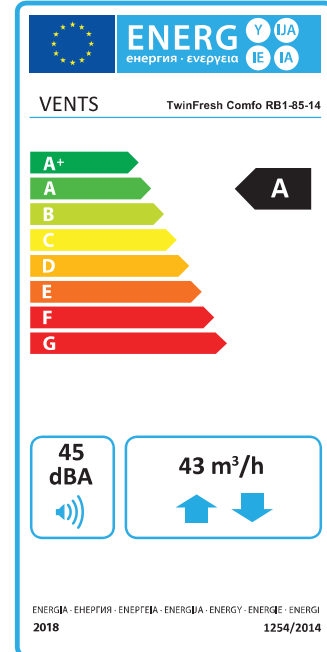
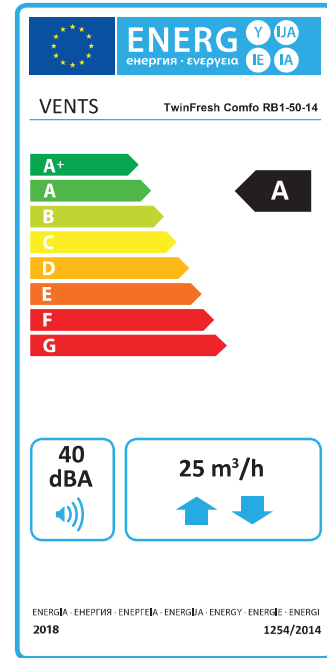
\* -30 °C when the EH-13 hood is applied.

## OVERALL DIMENSIONS

























## ECODESIGN











| Model   | TwinFresh RB1-50-14   |         |         |      |         |      | TwinFresh RB1-85-14 |         |         |      |         |      |
|---|---|---------|---------|------|---------|------|---------------------|---------|---------|------|---------|------|
|   | Cold  |         | Average |      | Warm    |      | Cold                |         | Average |      | Warm    |      |
| Specific energy consumption (SEC)<br>[kWh/(m <sup>2</sup> .a)]                                      | -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 [m <sup>3</sup> /h]   | 25  |         |         |      |         |      | 43                  |         |         |      |         |      |
| Power [W]   | 7   |         |         |      |         |      | 9.65                |         |         |      |         |      |
| Sound power level [dBA]   | 40  |         |         |      |         |      | 45                  |         |         |      |         |      |
| Reference air flow rate [m <sup>3</sup> /s]   | 0.004   |         |         |      |         |      | 0.008               |         |         |      |         |      |
| Reference pressure difference [Pa]  | 0   |         |         |      |         |      | 0                   |         |         |      |         |      |
| Specific power input (SPI)<br>[W/(m <sup>3</sup> /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 [m <sup>3</sup> /h] | -   |         |         |      |         |      | -                   |         |         |      |         |      |
| Internet address  | <a href="http://www.ventilation-system.com">http://www.ventilation-system.com</a> |         |         |      |         |      |                     |         |         |      |         |      |
| The annual electricity consumption (AEC) [kWh electricity/a]  | Cold  | Average | Warm    | Cold | Average | Warm | Cold                | Average | Warm    | Cold | Average | Warm |
|   | 226   | 226     | 226     | 161  | 161     | 161  | 161                 | 161     | 161     | 161  | 161     | 161  |
| The annual heating saved (AHS) [kWh primary energy/a]   | Cold  | Average | Warm    | Cold | Average | Warm | Cold                | Average | Warm    | Cold | Average | Warm |
|   | 8695  | 4445    | 2010    | 8205 | 4194    | 1897 | 8205                | 4194    | 1897    | 8205 | 4194    | 1897 |



## ACCESSORIES

|       |                  |   |  |  |
|-------|------------------|---|--|--|
| Hoods | EH-14 white 160  |    | Plastic hood.<br>Colour options:                             |       |
|       | EH-14 chrome 160 |    | Grey plastic outer hood with a brushed stainless steel cover |  |
|       | EH-17 white 160  |    | Plastic hood.<br>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   |
| Filters                    | SF TwinFresh R50 G3                    |  | G3 filter kit (2 pcs.)                                       |
|                            | SF TwinFresh R50 F8                    |  | F8 filter (supplied with a plastic cup)                      |