



TWINFRESH  
COMFO  
RA1-25-14

TWINFRESH

Power from

**3.5 W**

Air flow up to

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

Sound pressure level

**22 dBA**



**SH**

The TwinFresh Comfo RA1-25-14 user-friendly ventilator is the most suitable solution for small rooms.  
Supply of clean and fresh air 24 hours a day.



# SILENT OPERATION AND VERSATILITY



### SIMPLE

Control using the buttons on the front panel or remote control.

### NO DRAFTS

Closed air shutters prevent drafts when the ventilator is switched off.

### CARING

Clean and fresh air 24 hours a day.



Energy efficient DC fan is a recipe for silence and energy saving.



The simple operation logic of the regenerator will provide clean and fresh air in your house.



Manual control has never been so easy!

# EASY CONTROL!



To provide convenient and simple control the TwinFresh Comfo units are completed 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 

The automatic shutters are opened but the fans are off in this mode.
- 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 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
  - LOW
  - MEDIUM
  - HIGH



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



High efficiency – up to 85%.



The unit properly operates at temperature range up to  $-20^{\circ}\text{C}$ .



Integrated humidity sensor for the automated unit operation.



Can be mounted inside a prepared hole (from  $\varnothing 100\text{ mm}$ ) in a wall.



Simple ventilator control



Automatic drafts shutoff by shutters when the ventilator is off.



Noise at the level of subdued conversation (22-33 dBA).

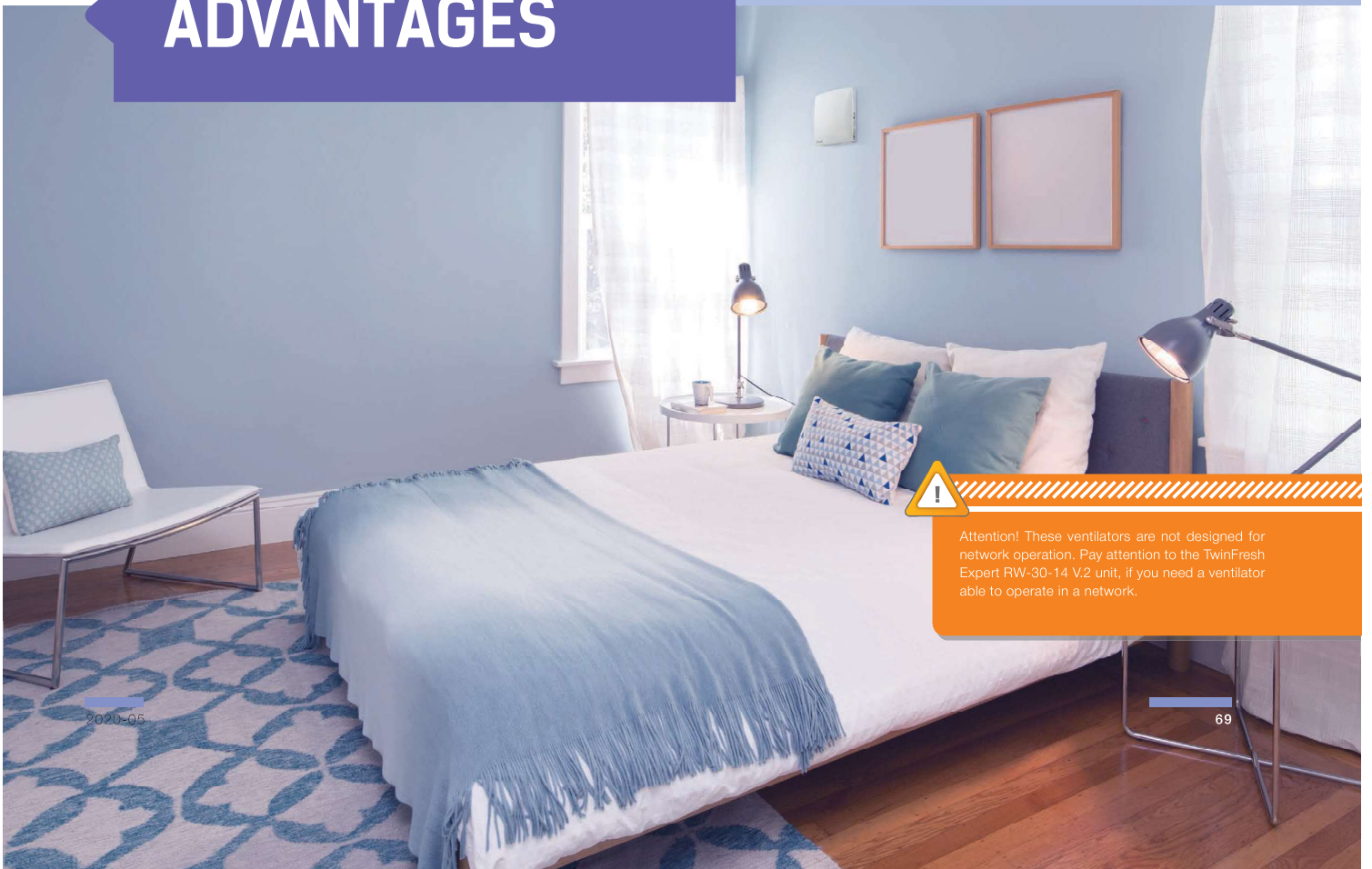


Ventilation of premises with the area of about  $15\text{ m}^2$  (the area is approximate and depends on the ventilation standards in your country).



Night mode. The ventilator switches to low speed in the dark time of the day (by a light sensor).

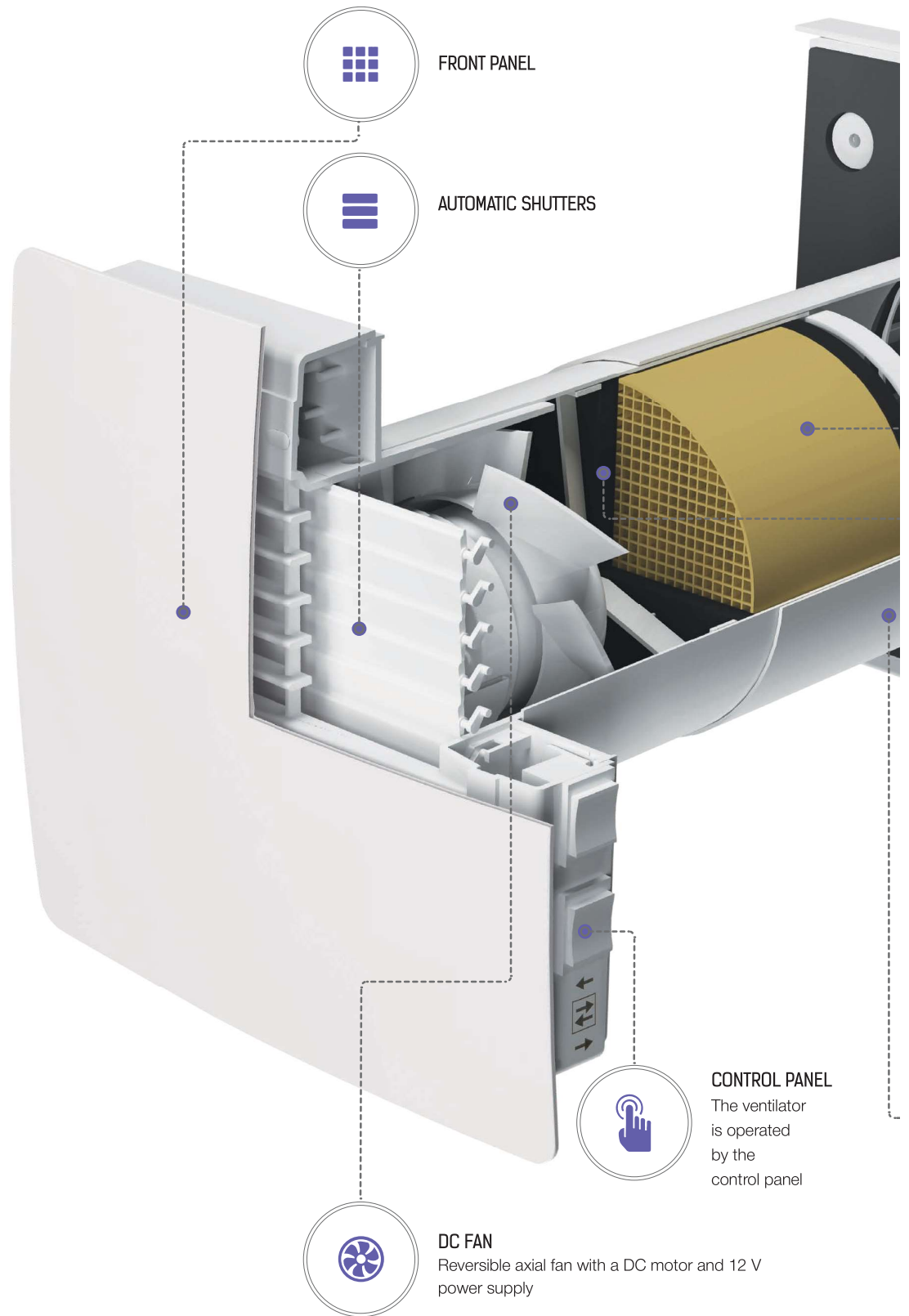
## ADVANTAGES



Attention! These ventilators are not designed for network operation. Pay attention to the TwinFresh Expert RW-30-14 V.2 unit, if you need a ventilator able to operate in a network.



**HOW IS IT  
DESIGNED?**



**FRONT PANEL**



**AUTOMATIC SHUTTERS**



**CONTROL PANEL**

The ventilator is operated by the control panel



**DC FAN**

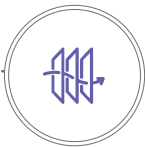
Reversible axial fan with a DC motor and 12 V power supply





#### CERAMIC REGENERATOR

High-tech ceramic energy regenerator with the regeneration efficiency of up to 85%

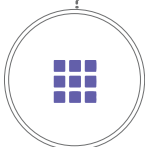


#### FILTERS

The G3 air filter provides supply and extract air filtration. F8 filter is available as an option.



#### AIR DUCT



#### OUTER HOOD

Protects the ventilator from ingress of water and foreign objects

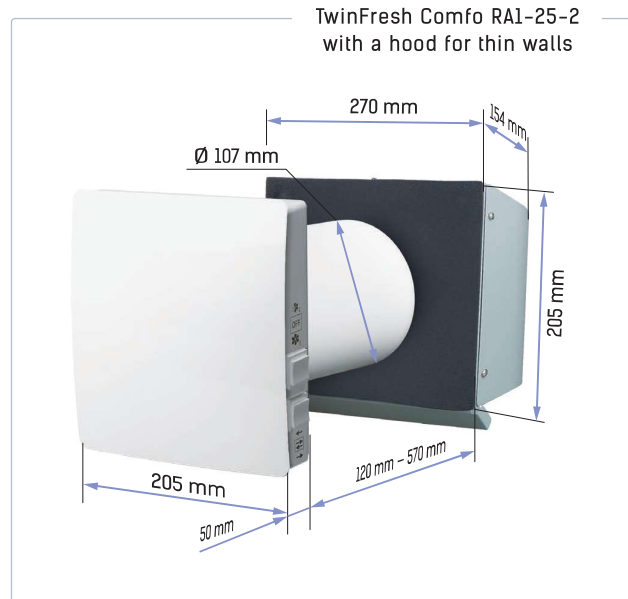
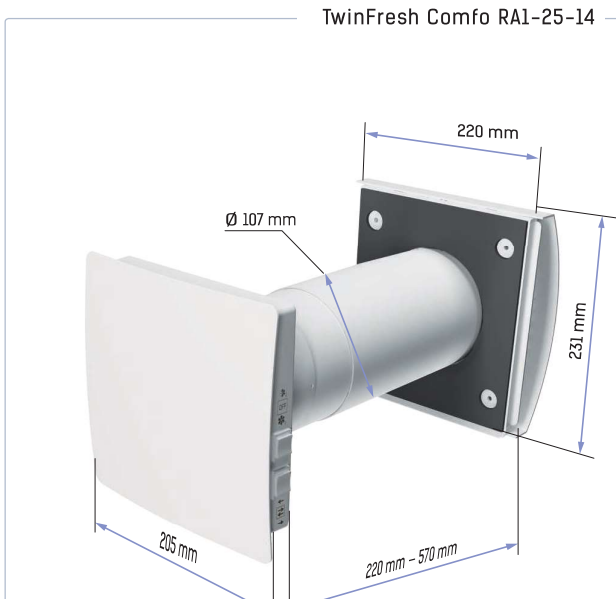


## TECHNICAL DATA

| Speed  | I               | II        | III       |
|--|-----------------|-----------|-----------|
| Unit voltage [V/50 (60) Hz]  | 100-240 / 50-60 |           |           |
| Power [W]  | 3.5             | 3.95      | 5.32      |
| Current [A]  | 0.023           | 0.026     | 0.036     |
| Air flow in ventilation mode [m <sup>3</sup> /h (l/s)]                   | 7<br>(2)        | 15<br>(4) | 24<br>(7) |
| Air flow in energy recovery mode [m <sup>3</sup> /h (l/s)]               | 4<br>(1)        | 8<br>(2)  | 12<br>(3) |
| SFP [W/l/s]  | 3.6             | 1.9       | 1.6       |
| Transported air temperature [°C]   | -20*...+40      |           |           |
| Sound pressure level at 1 m distance [dBA]                               | 31              | 35        | 43        |
| Sound pressure level at 3 m distance [dBA]                               | 22              | 25        | 33        |
| Outdoor sound pressure attenuation in accordance with DIN EN 20140 [dBA] | 40              |           |           |
| Heat recovery efficiency in accordance with DIBt LÜ-A 20 [%]             | ≤ 85            |           |           |
| Filter   | G3              |           |           |
| Protection class   | IP24            |           |           |

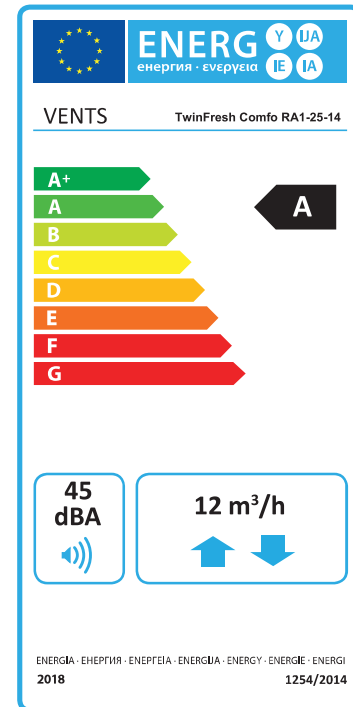
\* -30 °C when the EH-13 hood is applied.

## OVERALL DIMENSIONS





























## ECODESIGN

|   |   |         |         |      |      |   |
|---|---|---------|---------|------|------|---|
| Specific energy consumption (SEC)<br>[kWh/(m <sup>2</sup> .a)]                                      | Cold  |         | Average |      | Warm |   |
|   | -77   | A+      | -35     | A    | -11  | E |
| Type of ventilation unit  | Bidirectional   |         |         |      |      |   |
| Type of drive installed   | Three-speed   |         |         |      |      |   |
| Type of heat recovery system  | Regenerative  |         |         |      |      |   |
| Thermal efficiency of heat recovery [%]   | 80  |         |         |      |      |   |
| Maximum air flow rate [m <sup>3</sup> /h]   | 12  |         |         |      |      |   |
| Power [W]   | 5.32  |         |         |      |      |   |
| Sound power level [dBA]   | 45  |         |         |      |      |   |
| Reference air flow rate [m <sup>3</sup> /s]   | 0.002   |         |         |      |      |   |
| Reference pressure difference [Pa]  | 0   |         |         |      |      |   |
| Specific power input (SPI) [W/(m <sup>3</sup> /h)]  | 0.527   |         |         |      |      |   |
| 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)<br>[kWh electricity/a]                                     | Cold  | Average |         | Warm |      |   |
|   | 380   | 380     |         | 380  |      |   |
| The annual heating saved (AHS)<br>[kWh primary energy/a]  | Cold  | Average |         | Warm |      |   |
|   | 8695  | 4445    |         | 2010 |      |   |



## ACCESSORIES

|         |                  |   |  |  |
|---------|------------------|---|--|--|
| Hoods   | EH-14 white 100  |    | Plastic hood.<br>Colour options:                             |       |
|         | EH-14 chrome 100 |    | Grey plastic outer hood with a brushed stainless steel cover |  |
|         | EH-17 white 100  |    | Plastic hood.<br>Colour options:                             |       |
|         | EH-2 grey 100    |    | Grey painted stainless steel outer hood for thin walls       |  |
|         | EH-2 chrome 100  |  | Brushed stainless steel hood for thin walls                  |  |
|         | EH-13 white 100  |  | White painted aluminium outer hood for cold climate          |  |
|         | EH-13 chrome 100 |  | Stainless steel ventilation hood for cold climate            |  |
| Grilles | MVMO 100 bV1s An |  | Round metal grille   |  |
|         | MVM 102 bVs N    |  | Round stainless steel hood                                   |  |

|                        |                         |   |  |
|------------------------|-------------------------|---|--|
| 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                        |
| For ventilator control | RC TwinFresh COMFO R-50 |   | Remote control   |
| Filters                | SF TwinFresh R25 G3     |  | G3 filter kit (2 pcs.)                                       |