

TWINFRESH  
STYLE WI-FI MINI



Power from

**1.8 W**

Air flow up to

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

Sound pressure level from

**21 dBA\***

\*At 3 m distance.



The user-friendly TwinFresh Style Wi-Fi mini ventilator will provide the room with clean and fresh air. Significant reduction in ventilation heat loss due to heat recovery. Humidity balance and regulated air exchange create individually controlled microclimate.

TWINFRESH



# MODERN AND SILENT

## FUNCTIONAL

Many units can be connected to one control network.

## EFFICIENT

High heat recovery efficiency of up to 81 % is achieved due to the use of a cellular regenerator.

## USER-FRIENDLY

The design of the unit provides easy maintenance and installation.



High-quality soundproofing material is used keeping the noise of the unit at the level of human whisper.



The unit modes are controlled via the sensor control panel located on the casing of the unit or via the remote control. Flexible customization for each user through the application on the smartphone.



The capacity of one ventilator is enough to provide a room with the area of up to 15 m<sup>2</sup> with fresh air.

The unit modes are controlled via the sensor control panel located on the casing of the unit, via the remote control or via the smartphone.



Operation modes:

- Speed setup
- Operation mode setup
  - Ventilation
  - Regeneration
- Timer setup
  - 4 hours at speed III
  - 8 hours at speed I

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



Operation modes:

- ventilation with energy recovery
- ventilation
- speed switching and ventilator turning off

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

TwinFresh Style Wi-Fi and TwinFresh Style Wi-Fi mini can be combined into one control circuit



# EASY CONTROL

# ADVANTAGES



Trendy ventilator design.



High efficiency – 81 %.



Can be mounted inside a prepared hole (from Ø 110 mm) in a wall.



Humidity control with a humidity sensor.



Connection of the units into one control network.



Connection of an external CO<sub>2</sub> sensor or other external relay sensors.



Manual closing of the airtight damper after switching off the unit to ensure absence of drafts.



Noise at the level of human whisper (from 21 up to 31 dBA at the distance of 3 m).



Ventilation of premises with the area of about 15 m<sup>2</sup> (the area is approximate and depends on the ventilation standards in your country).



Simple mounting and maintenance.



It is recommended to use a pair of ventilators to ensure balanced ventilation.

Mounting examples



Mounting into a wall with a standard thickness using the EH-14 hood



Corner mounting using the kit the NP-160 white kit

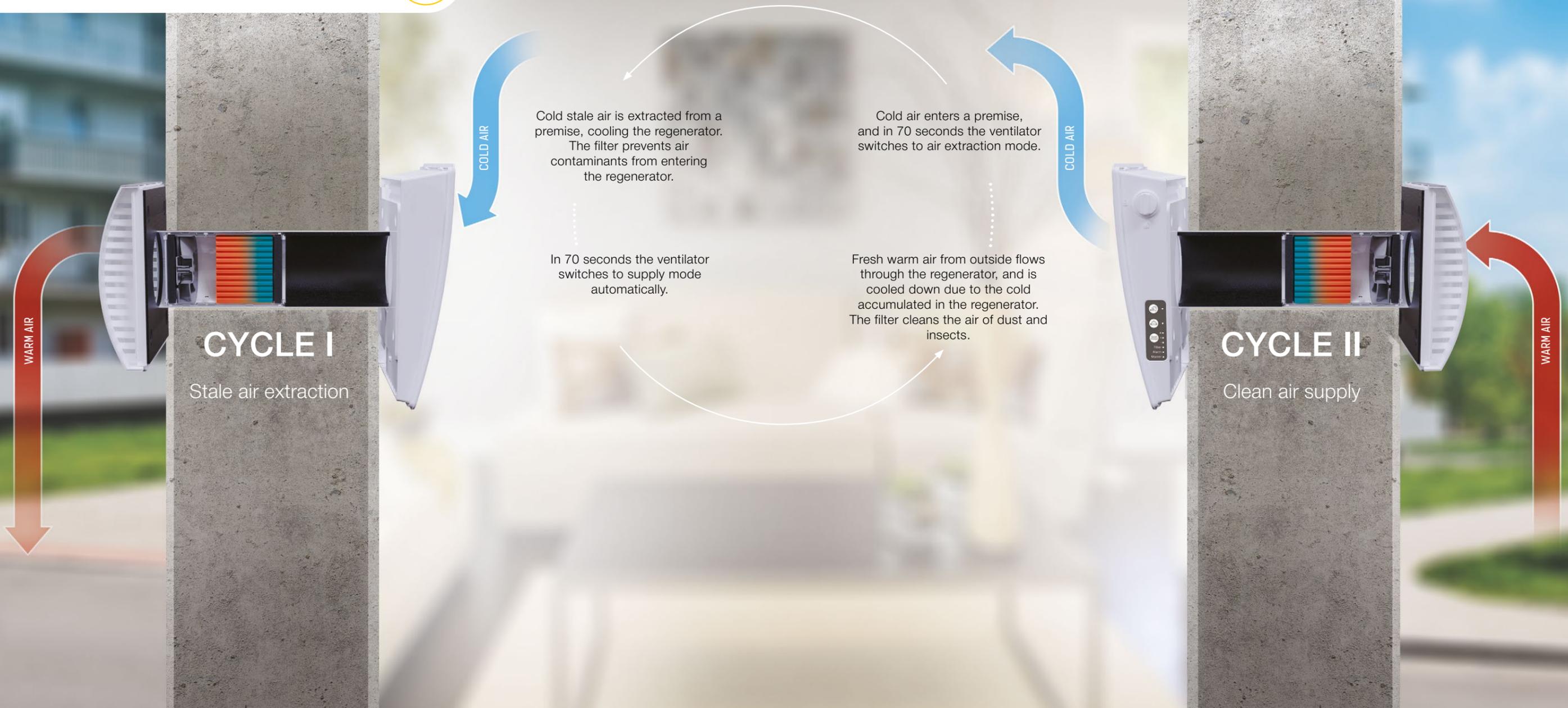


Mounting into a thin wall using the EH-2 hood

## SAVES ENERGY

To ensure energy saving, the ventilator operates in the energy regeneration mode using two cycles. This reduces the load on the air conditioning system in summer.

### WHEN IT IS HOT OUTSIDE



Cold stale air is extracted from a premise, cooling the regenerator. The filter prevents air contaminants from entering the regenerator.

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

In 70 seconds the ventilator switches to supply mode automatically.

Fresh warm air from outside flows through the regenerator, and is cooled down due to the cold accumulated in the regenerator. The filter cleans the air of dust and insects.

#### CYCLE I

Stale air extraction

#### CYCLE II

Clean air supply

# RETAINS HEAT

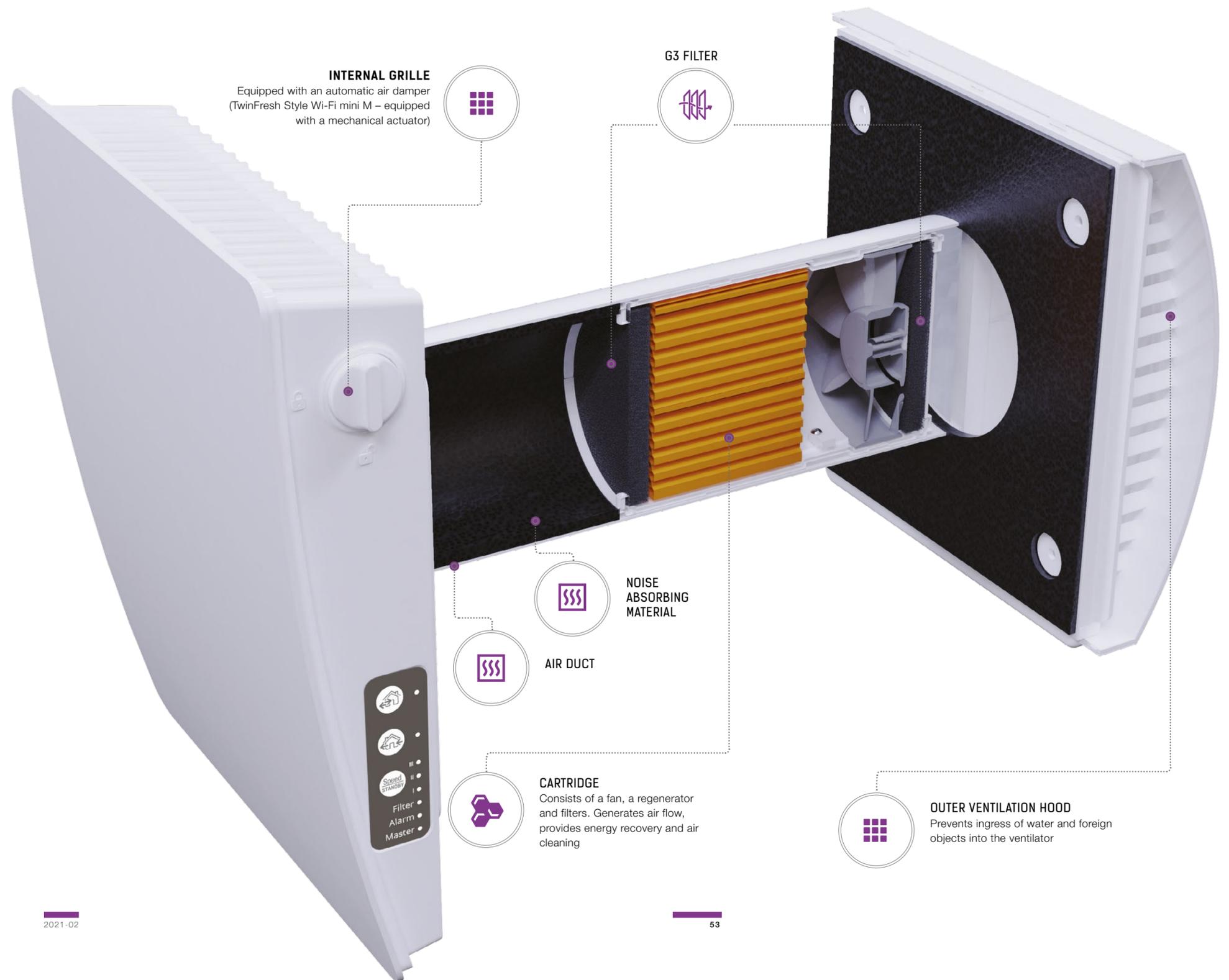
To keep the heat inside the room, the ventilator operates in the regeneration mode using two cycles. Thanks to this, heat is returned to the room, moisture balance is ensured, and the load on the heating system in winter is reduced.



## WHEN IT IS COLD OUTSIDE



# HOW IS IT DESIGNED?



## TECHNICAL DATA

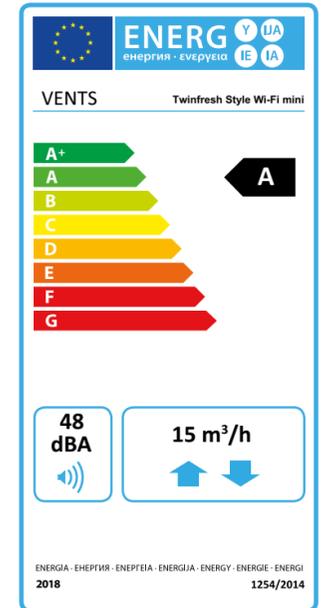
Speed	I	II	III
Unit voltage [V/50 (60) Hz]	100-240 / 50-60		
Power [W]	1.80	3.00	4.40
Current [A]	0.03	0.04	0.05
Air flow in ventilation mode [m <sup>3</sup> /h (l/s)]	10(3)	20(6)	30(8)
Air flow in energy recovery mode [m <sup>3</sup> /h (l/s)]	5(1)	10(3)	15(4)
SFP [W/l/s]	1.30	1.08	1.06
Transported 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		
Heat recovery efficiency in accordance with DIBt LÜ-A 20 [%]	≤ 81		
The classification of the indoor/outdoor air tightness, according to EN 13141-8	D1		
Filter	G3		

## OVERALL DIMENSIONS



## ECODESIGN

Specific energy consumption (SEC) [kWh/(m <sup>2</sup> .a)]	Cold		Average		Warm	
	-78.6	A+	-38	A	-14.8	E
Type of ventilation unit	Bidirectional					
Type of drive installed	Stepless fan speed control					
Type of heat recovery system	Regenerative					
Thermal efficiency of heat recovery [%]	71					
Maximum air flow [m <sup>3</sup> /h]	15					
Power [W]	4.4					
Sound power level [dBA]	48					
Reference flow rate [m <sup>3</sup> /s]	0.004					
Reference pressure difference [Pa]	0					
Specific power input (SPI) [W/(m <sup>3</sup> /h)]	0,3					
Control typology	Local demand control					
Classification of airflow sensitivity to pressure variations, according to EN 13141-8 [%]	0.4					
Internet address	<a href="http://www.ventilation-system.com">http://www.ventilation-system.com</a>					
Annual electricity consumption (AEC) [kWh electricity/a]	Cold	Average	Warm			
	175	175	175			
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-2 grey 100		Grey painted stainless steel outer hood for thin walls
	EH-2 chrome 100		Polished 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
Angular mounting	NP 100 white		Kit for angular mounting with white colour grille
	NP 100 chrome		Kit for angular mounting with stainless steel outer grille

Mounting elements	1005		Round air duct with a diameter of 100 mm and a length of 500 mm with a foam plug
	1010		Round air duct with a diameter of 100 mm and a length of 1000 mm with a foam plug
	T TwinFresh Style		Cardboard template for indoor installation of the unit
For ventilator control	RK1 TwinFresh		Remote control
	KV TwinFresh WiFi		Sensor control panel
	CO2-1		CO <sub>2</sub> sensor with LED indication and sensor buttons
	CO2-2		CO <sub>2</sub> sensor
	TRF-220/24-1,6 or TRF-120/24-1,6		Power supply for CO <sub>2</sub> sensors
Filters	SF3 TwinFresh G3		G3 filter kit (2 pcs.)