TWINFRESH COMFO RC-50-14



Power from

1.5 W

Air flow up to

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

Sound pressure level from

12 dBA



The user-friendly TwinFresh Comfo RC-50-14 ventilator will provide the room with clean and fresh air.

Significant reduction in ventilation heat loss due to heat

Humidity balance and regulated air exchange create individually controlled microclimate.

TWINFRESH COMFO RC-50-14



#### **FUNCTIONAL**

Many units can be connected to one control network.



High heat recovery efficiency of up to 93 % 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 filters (G3) with antibacterial treatment, which retains its properties even after cleaning with water or a vacuum cleaner. Also, for better cleaning effect, an F8 filter is available (optional).



The capacity of one ventilator is enough to provide a room with the area of up to 30 m<sup>2</sup> with fresh air.







Trendy ventilator design.



High efficiency - 93 %.



Can be mounted inside a prepared hole (from Ø 160 mm) in a wall.



Humidity control with a humidity sensor.



Connection of the units into one control network.



Connection of an external  ${\rm CO}_2$  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 29 dBA).



Ventilation of premises with the area of about 30 m<sup>2</sup> (the area is approximate and depends on the ventilation standards in your country).



Simple mounting and maintenance





To ensure energy savings, the units can operate both in energ recovery mode and in ventilation 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.

The filter prevents air contaminants from entering the regenerator.

In 70 seconds the ventilator switches to supply mode automatically.

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

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 II

Clean air supply

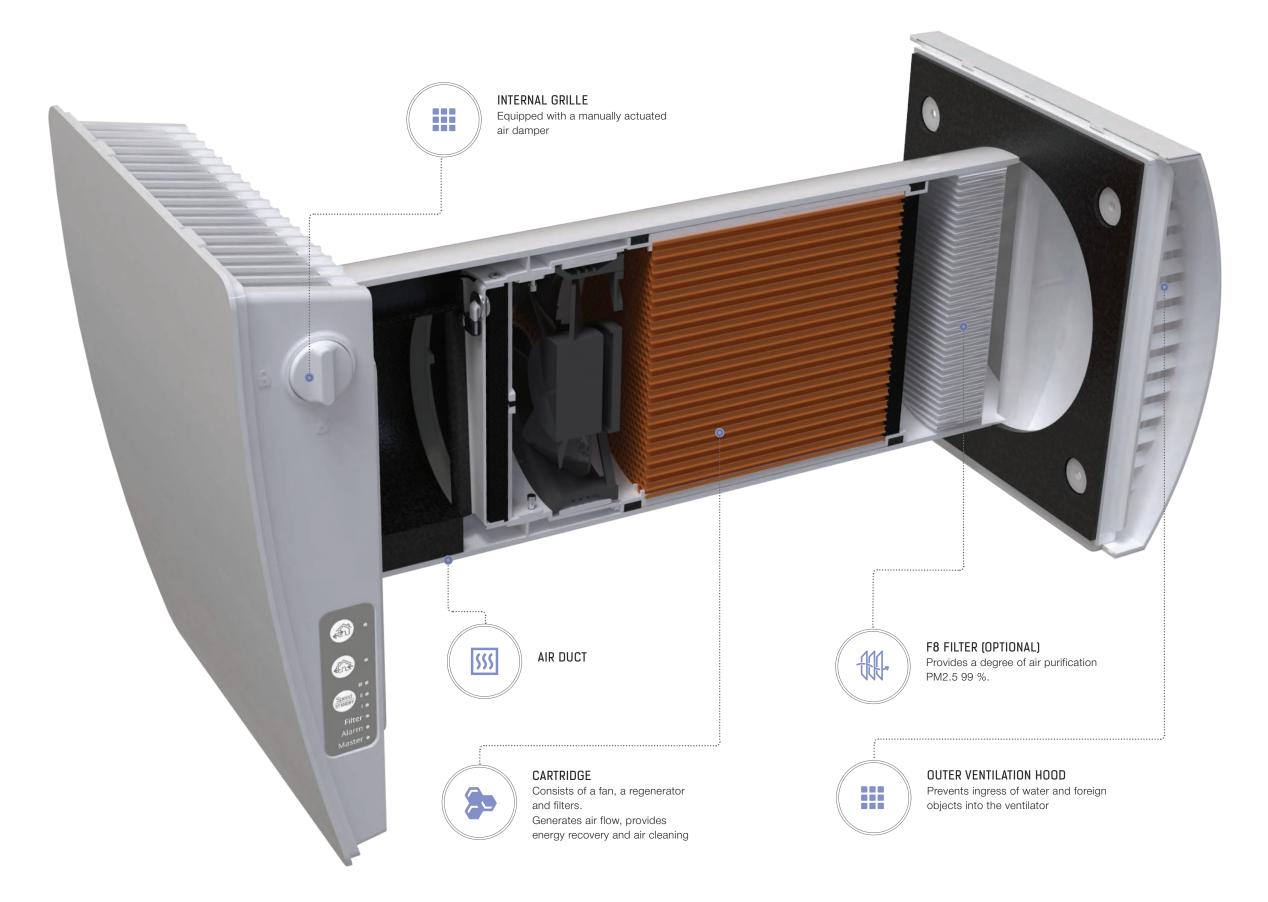
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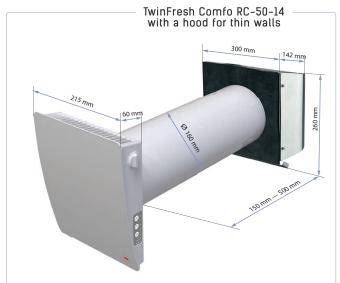


## **TECHNICAL DATA**

Speed	I	II	III	
Unit voltage [V/50 (60) Hz]	100-240 / 50-60			
Power [W]	1.50	2.50	4.50	
Current [A]	0.03	0.04	0.06	
Air flow in ventilation mode [m³/h (l/s)]	15 (4)	30 (8)	50 (14)	
Air flow in energy recovery mode [m³/h (l/s)]	8 (2)	15 (4)	25 (7)	
SFP [W/l/s]	0.72	0.60	0.65	
Transported air temperature [°C]	-20+40			
Sound pressure level at 1 m distance [dBA]	21	27	29	
Sound pressure level at 3 m distance [dBA]	12	18	20	
Outdoor sound pressure attenuation in accordance with DIN EN 20140 [dBA]	41			
Heat recovery efficiency in accordance with DIBt LÜ-A 20 [%]	≤ 93			
Filter	G3 (F8 optional)			
F8 filter filtration rate PM2.5 [%]				
Air flow with F8 filter applied [m³/h]		40		

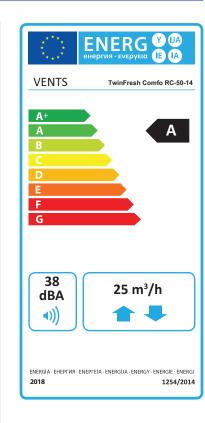
## **OVERALL DIMENSIONS**





## **ECODESIGN**

Specific energy consumption (SEC)	С	old	Ave	rage	Wa	arm
[kWh(m².a)]	-82.6	A+	-40.8	А	-16.8	E
Type of ventilation unit			Bidire	ectiona	ıl	
Type of drive installed	Three-speed					
Type of heat recovery system	Regenerative					
Thermal efficiency of heat recovery [%]	77					
Maximum air flow [m³/h]	25					
Power [W]	4.5					
Sound power level [dBA]	38					
Reference flow rate [m³/s]	0.004					
Reference pressure difference [Pa]				0		
Specific power input (SPI) [W/(m³/h)]			0.	167		
Control typology	Local automatic control					
Maximum internal leakage rates [%]	2.7					
Maximum external leakage rates [%]	0					
Mixing rate of bidirectional units [%]		1				
The classification of the airflow sensitivity to pressure variations, according to EN 13141-8 [%]		30.75				
The classification of the indoor/outdoor air tightness, according to EN 13141-8 [m³/h]		-				
Internet address	h	ttp://w	ww.venti	lation-	system.co	om
The annual electricity consumption (AEC)	С	old	Ave	rage	Wa	arm
[kWh electricity/a]	1	20	12	20	12	20
The annual heating saved (AHS)	С	old	Ave	rage	Wa	arm
[kWh primary energy/a]	85	562	43	377	19	79



#### **ACCESSORIES**

Hoods	EH-14 white 160	AMINGER	Plastic hood. Colour options:  White Black Grey Terracotta Brown Beige				
	EH-14 chrome 160		Grey plastic outer hood with a brushed stainless steel cover				
	EH-2 grey 160		Grey painted stainless steel outer hood for thin walls				
	EH-2 chrome 160		Polished 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		Hood for mounting from inside				
Grilles	MVMO 150 bV1s An		Round metal grille				
	MVM 152 bVsn		Round stainless steel hood				
Angular mounting	NP 60x204-0021		Kit for angular mounting with white colour grille				
	NP 60x204-0021		Kit for angular mounting with stainless steel outer grille				

Mounting elements	Duct 160 -500		Round air duct with a diameter of 160 mm and a length of 500 mm with a foam plug
	Duct 160 -700		Round air duct with a diameter of 160 mm and a length of 700 mm with a foam plug
	T TwinFresh Comfo RC-50		Cardboard template for indoor installation of the unit
For ventilator control	RK1 TwinFresh		Remote control
	KV TwinFresh Comfo R-50		Sensor control panel
	CO2-1		CO <sub>2</sub> sensor with LED indication and sensor buttons
	CO2-2	Q	CO <sub>2</sub> sensor
Filters	SF TwinFresh Comfo R-50 G3		G3 filter kit (2 pcs.)
	SF TwinFresh Comfo R-50 F8		F8 filter kit (1 pc.)