

*Fresh air in  
your house!*



## SCHEDA TECNICA

Recuperatore di calore delocalizzato  
RCP200 (con scambiatore entalpico)

# RCP200



Air flow up to **200 m<sup>3</sup>/h.**

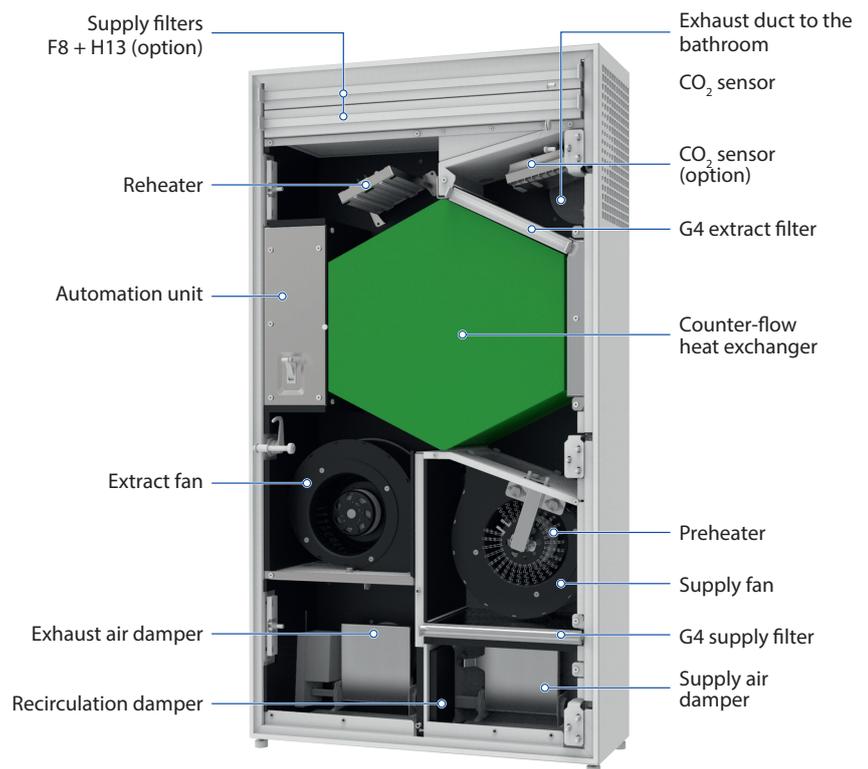
RCP-200E WiFi is a single-room energy-efficient supply and exhaust unit intended for decentralised ventilation of residential and commercial spaces as well as apartments and houses.

RCP-200E WiFi is ideally suited for creating simple and efficient ventilation in new and reconstructed buildings. The unit does not require installation of a duct system.

## FEATURES

- Efficient solution for supply and exhaust ventilation of enclosed spaces.
- Modifications with an electric preheater and/or reheater are available for cold climate conditions.
- EC motors with low energy demand.
- Supply air purification up to 99 % PM 2.5 ensured by two built-in G4 and F8 filters. Additional air purification due to recirculation. An H13 filter is optionally available.
- Upgradeable with an exhaust duct to provide air extraction from the bathroom.
- Easy installation.
- Compact size.
- Modern design.
- Control via Android/iOS mobile application.

## DESIGN



## CASING

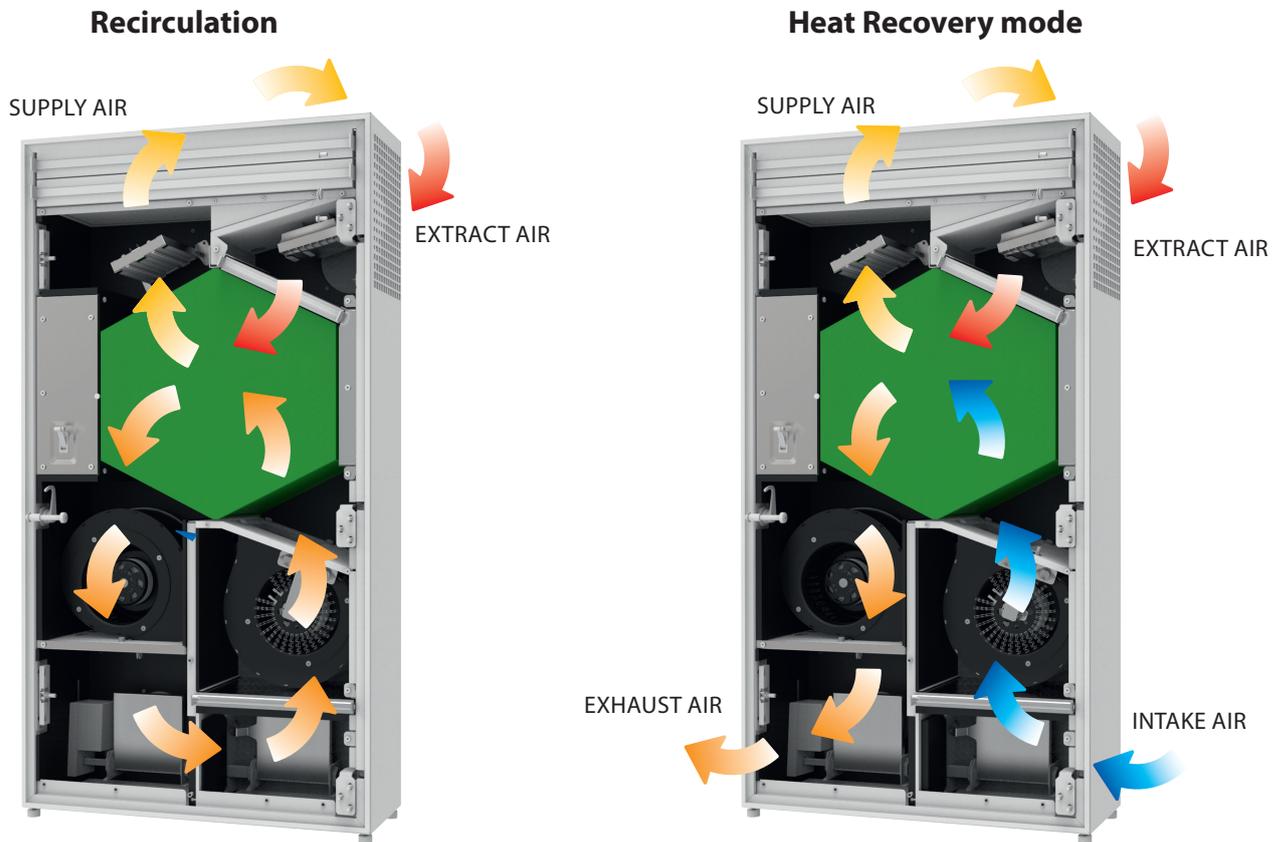
The casing is made of polymer coated metal. Due to modern design, the unit can seamlessly blend with most any interior design. The front panel provides convenient access for filter maintenance and has a lock for extra security. The unit has two  $\varnothing$  100 mm pipes for fresh air intake and stale air extraction outside. The third  $\varnothing$  100 mm pipe (included in the delivery set) can be additionally fitted to the unit to connect the exhaust air duct from the bathroom.

## AIR DAMPERS

The unit is equipped with supply and exhaust air dampers which activate automatically to prevent drafts while the unit is off.

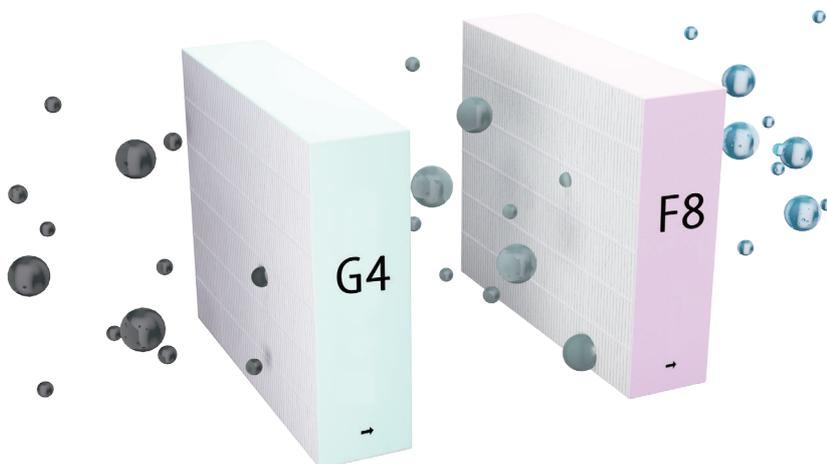
## RECIRCULATION

The supply and exhaust air dampers close when the air purification function is turned on. The recirculation damper opens. The room air circulates through the filters. Then it is returned purified back to the room.



## AIR FILTRATION

Supply and recirculation air cleaning is provided by G4 and F8 panel filters (PM 2.5 > 75%). To meet more stringent air purity requirements, an H13 filter (PM 2.5 > 99%) (purchased separately) can be installed in addition to an F8 filter. Extract air is cleaned by a panel G4 filter.



## MOTOR

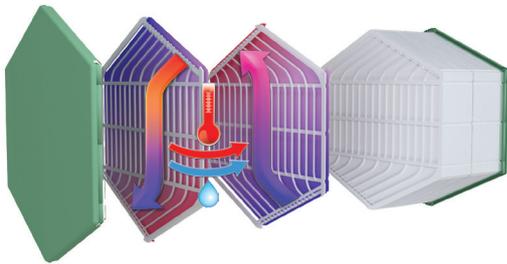
The units feature efficient electronically commutated (EC) motors with an external rotor and impellers with forward curved blades. These state-of-the-art motors are the most advanced solution in energy efficiency today. In addition to that, the efficiency of electronically commutated motors reaches very impressive levels of up to 90 %. EC motors are characterised with high performance and optimum control across the entire speed range.

## PREHEATING

RCP200-E-PRE WiFi unit is equipped with an electric preheater which protects the heat exchanger from freezing.

## HEAT EXCHANGER

The RCP200 units are equipped with a counter-flow heat exchanger with an enthalpy membrane. In the cold season the extract air heat and moisture are transferred to the supply air stream through the enthalpy membrane reducing the heat losses from ventilation.



The ambient air heat and moisture are transferred to the exhaust air stream through the enthalpy membrane in the warm season. This allows for a considerable reduction of the supply air temperature and humidity which, in turn, reduces the air conditioning load.

## CONTROL

- The units are equipped with a control panel.
- Remote control panels are supplied as standard.
- Wi-Fi connection available.
- Control via a smartphone or a tablet based on Android or IOS.



## FOLLOWING FUNCTIONS ARE AVAILABLE:

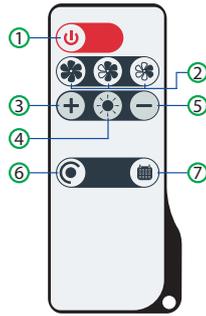
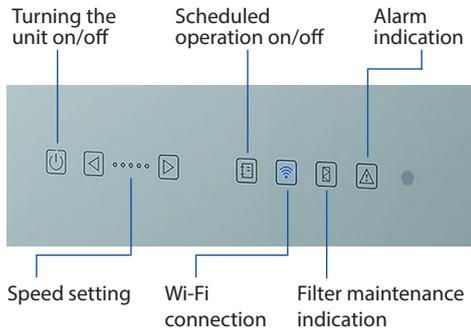
- Speed switching
- Filter replacement indication
- Alarm indication
- Speed setup
- Timer
- Weekly schedule

## FREEZE PROTECTION

RCP200-E WiFi features an exhaust air temperature sensor downstream of the heat exchanger which disables the supply fan to let the warm extract air warm up the heat exchanger. Then the supply fan is turned on and the unit reverts to normal operation.

Overheating protection for RCP200-PRE WiFi is implemented with a preheater.

## CONTROL PANEL



- ① Turning the unit on/off
- ② Speed selection
- ③ Temperature setpoint increase for a reheater (for models equipped with a reheater)
- ④ Switching the reheater on/off (for models equipped with a reheater)
- ⑤ Temperature setpoint decrease for a reheater (for models equipped with a reheater)
- ⑥ Timer on/off
- ⑦ Scheduled operation on/off

## Technical data

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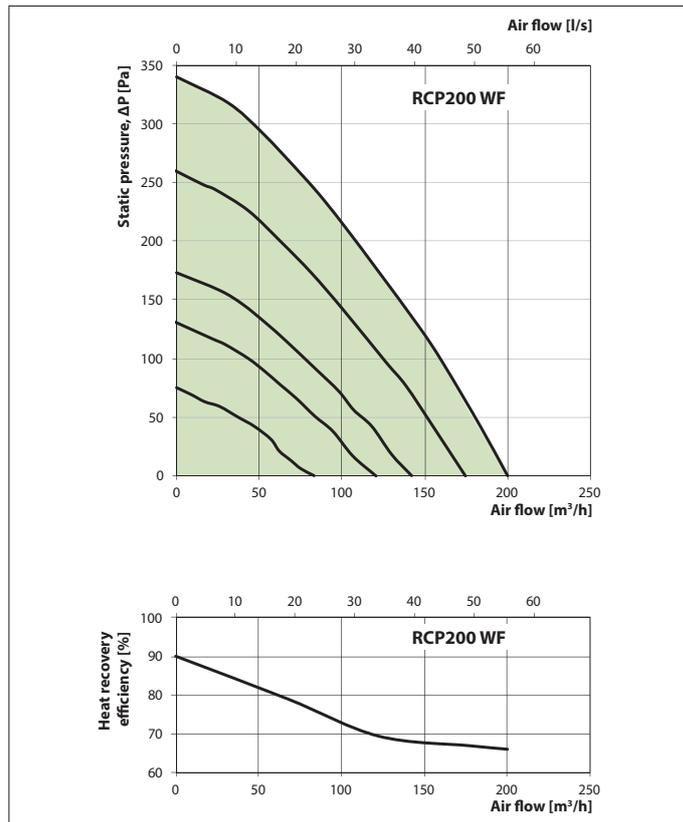
**200**  
m<sup>3</sup>/h

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## Technical data

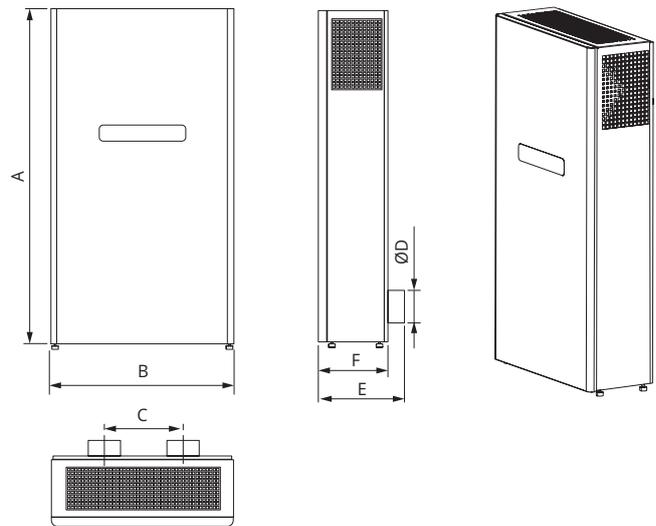
	RCP200-WF					RCP200-PRE-WF				
	1	2	3	4	5	1	2	3	4	5
Speed	1	2	3	4	5	1	2	3	4	5
Unit voltage [V/50 (60) Hz]	1~ 220-240									
Maximum unit power without an electric heater [W]	20	37	52	87	125	20	37	52	87	125
Electric preheater power [W]						650				
Electric reheater power [W]	-					-				
Maximum unit current (with a heater) [A]	1.0					4.0				
Maximum air flow [m <sup>3</sup> /h]	83	121	142	175	200	83	121	142	175	200
RPM [min <sup>-1</sup> ]	2000									
Sound pressure level at 3 m distance [dBA]	28	31	33	34	36	28	31	33	34	36
Transported air temperature [°C]	from -15 up to +50									
Casing material	polymer-coated steel									
Insulation [mm]	30									
Extract filter	G4									
Supply filter	G4 + F8 (H13 optional)									
Connected air duct diameter [mm]	Ø 100									
Weight [kg]	55									
Heat recovery efficiency [%]*	75	70	68	67	66	75	70	68	67	66
Heat exchanger type	counter-flow									
Heat exchanger material	enthalpy membrane									
SEC class	A									

\*Heat recovery efficiency is specified in compliance with EN 13141-8

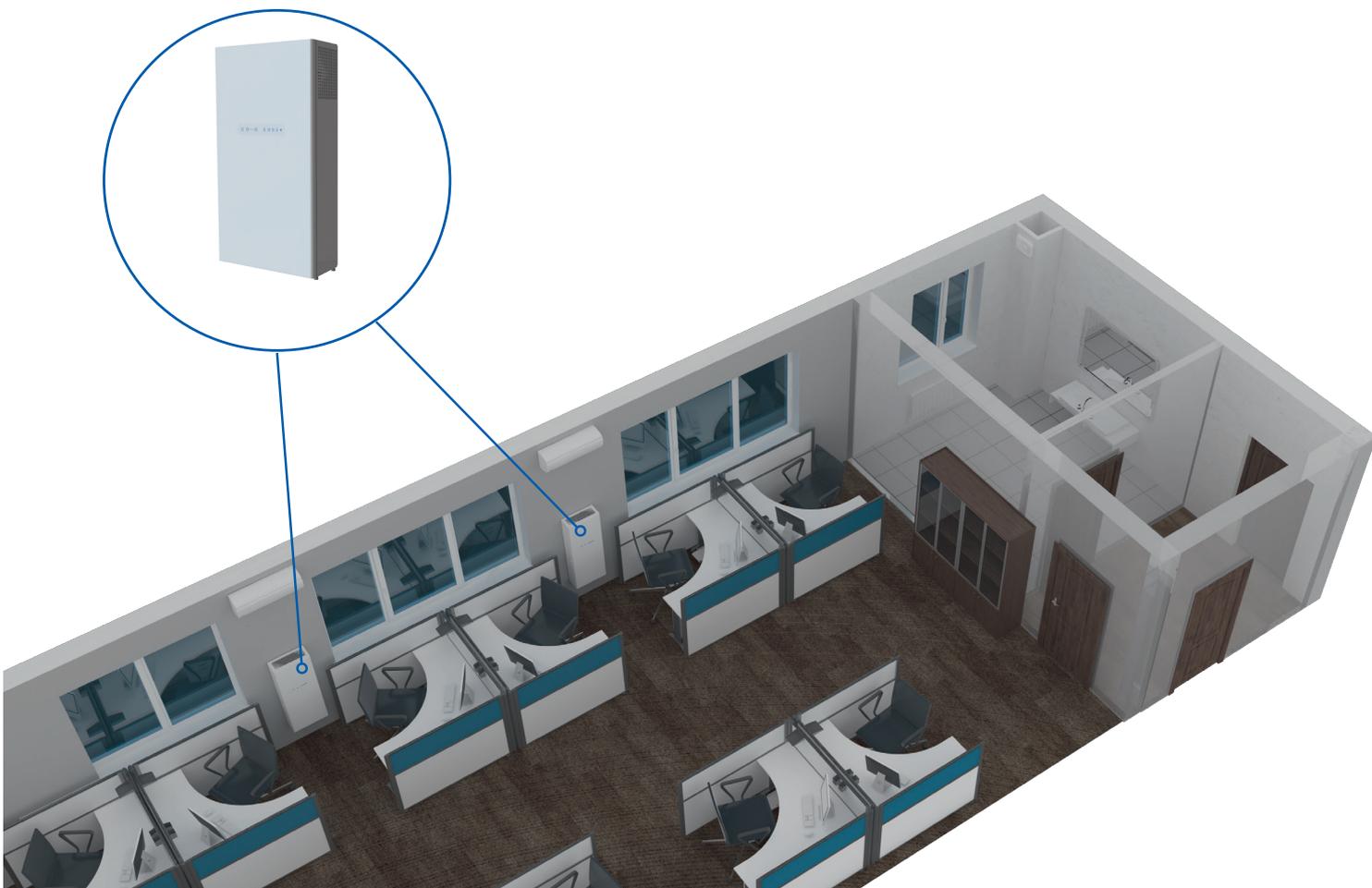


## OVERALL DIMENSIONS

Model	Dimensions [mm]					
	ØD	A	B	C	E	F
All RCP200	100	1018	550	240	265	200



### RCP200 application in an office space



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● ● ● PER UN'ARIA PIU' SANA

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