RUCTS

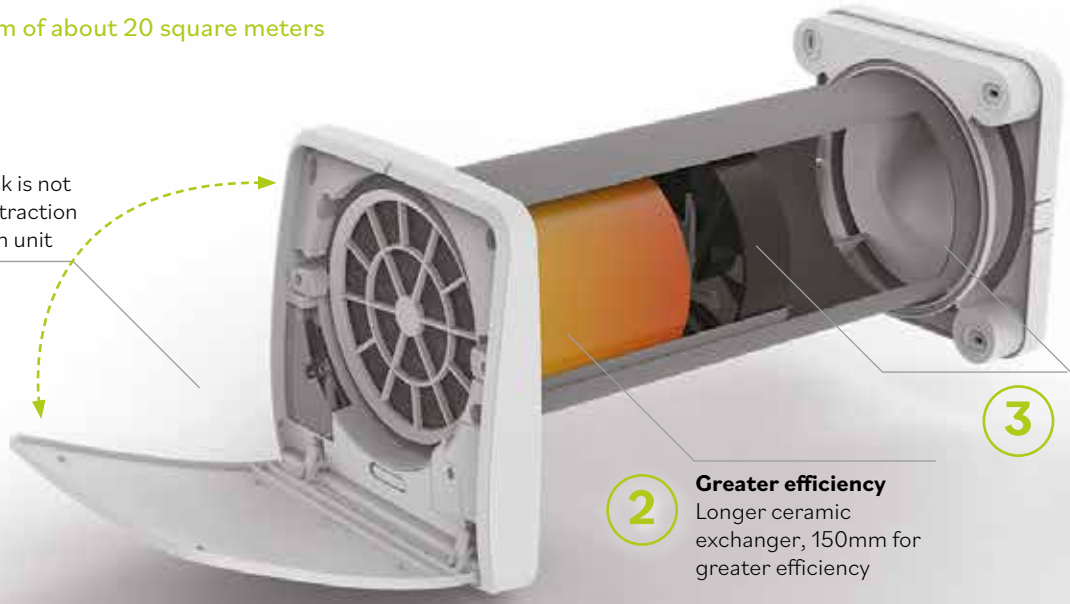

CONTROLLED VENTILATION UNIT
SANITIZES THE AIR
FIGHTS MOULD AND BACTERIA
EASY TO INSTALL

Decentralized heat recovery unit with alternating flow rates

RUCTS is the ideal solution for controlled mechanical ventilation of individual rooms in the event of apartment or office renovations and in all situations in which it is not possible to use a ducted ventilation system due to lack of space. Thanks to the ease of installation and the modern design, RUCTS can be easily integrated into home environments. A wall hole with a diameter of 160mm is enough to quickly install the ventilation unit. RUCTS allows obtaining air exhaust or supply flow rates up to 60m³/h, thus providing an adequate air exchange even in large rooms. RUCTS guarantees the constant maintenance of the indoor air quality thanks to alternating flow rate operation.

It changes all the air in the room in less than an hour

estimated time for a room of about 20 square meters



1 **Quick and easy maintenance**
The terminal block is not involved in the extraction function of the fan unit

2 **Greater efficiency**
Longer ceramic exchanger, 150mm for greater efficiency

3 **Quieter operation**
External grille designed to ensure better air flow and reduce noise from outside. 150mm long ceramic exchanger for greater efficiency

Cable communication between units:

- remote control with display
- integrated humidity and twilight sensors, which allow various automatic operating modes (see remote control)
- possibility to manage up to 16 units within a system in master/ slave mode, with simple setup using dip switches.
- 3 adjustable speeds (plus night function)

Remote control with display

Night mode function
Allows you to further reduce the air flow and noise at night.

Flow function
Allows you to select the direction of the air flow.

Boost function
Allows air to be expelled at maximum speed for a certain period of time.

Filter reset
After 3000 hours the machine recommends routine maintenance (filter cleaning). With this key you can easily restore normal operation after maintenance.

Flow speed
3 Levels:
30-45-60m³/h

Humidity control
3 humidity thresholds:
40-60-90%

Mode
AUTO Automatic
Supervised
MANUAL Manual

AUTO

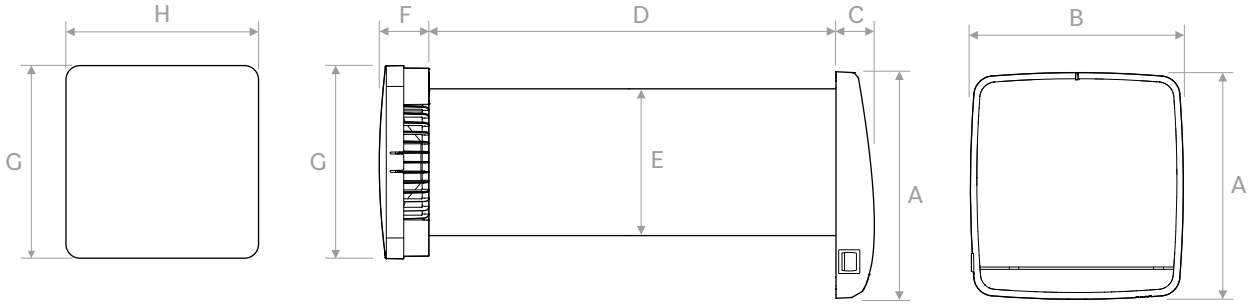
Automatic mode
Automatic operating mode in heat recovery. The unit is managed by humidity and twilight sensors.

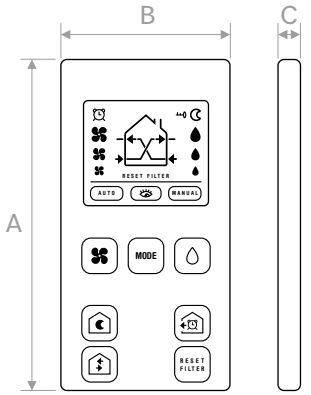
Surveillance mode
The device will remain off but still active thanks to its sensors. If room humidity is higher than the set one, the device will turn on to bring the humidity back to the desired level.

MANUAL

Manual mode
Operating mode in heat recovery at the manually set speed (the sensors are disabled).

Sizes





Model	A	B	C	D	E	F	G	H
RUCTS	250	233	40	500	Ø160	48	212	212

A	B	C
106	54	9

CE IPX4

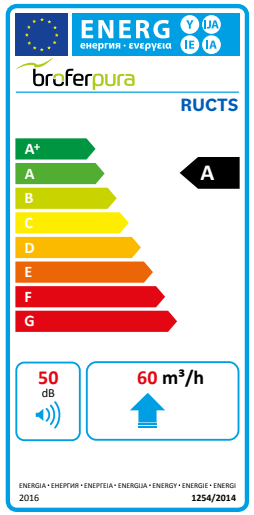
- Motor fan placed after the exchanger, inside the wall, to make the product very silent.
- High efficiency heat exchanger (up to 93%) made of ceramic material.
- Built with sturdy, high quality and aesthetically valuable materials.
- Front cover in ABS.
- Equipped with a tilting front cover to prevent unwanted re-entry of air when the product is off.
- ABS external grille designed to minimize outside noise.
- Standard hose length 500mm. Available as a 700mm hose accessory.
- Minimum depth of the wall 250mm - maximum depth 3m (2.5m if there is a 90° bend).
- DC motor fan, brushless with control electronics on ball bearings.
- Low power consumption and long service life.
- Easy maintenance and cleaning.
- Double stage dust filter washable and easily accessible for maintenance.
- Protection rating IPX4.
- Visual LED indicators for receiving commands and cleaning filters.
- Humidity and twilight sensor.
- The last set function is memorized and automatically restored in the event of a power failure.
- Caps for closing the hoses during preparation included in the package.
- It does not require a condensate drain.
- Mounting: on the wall

Technical data

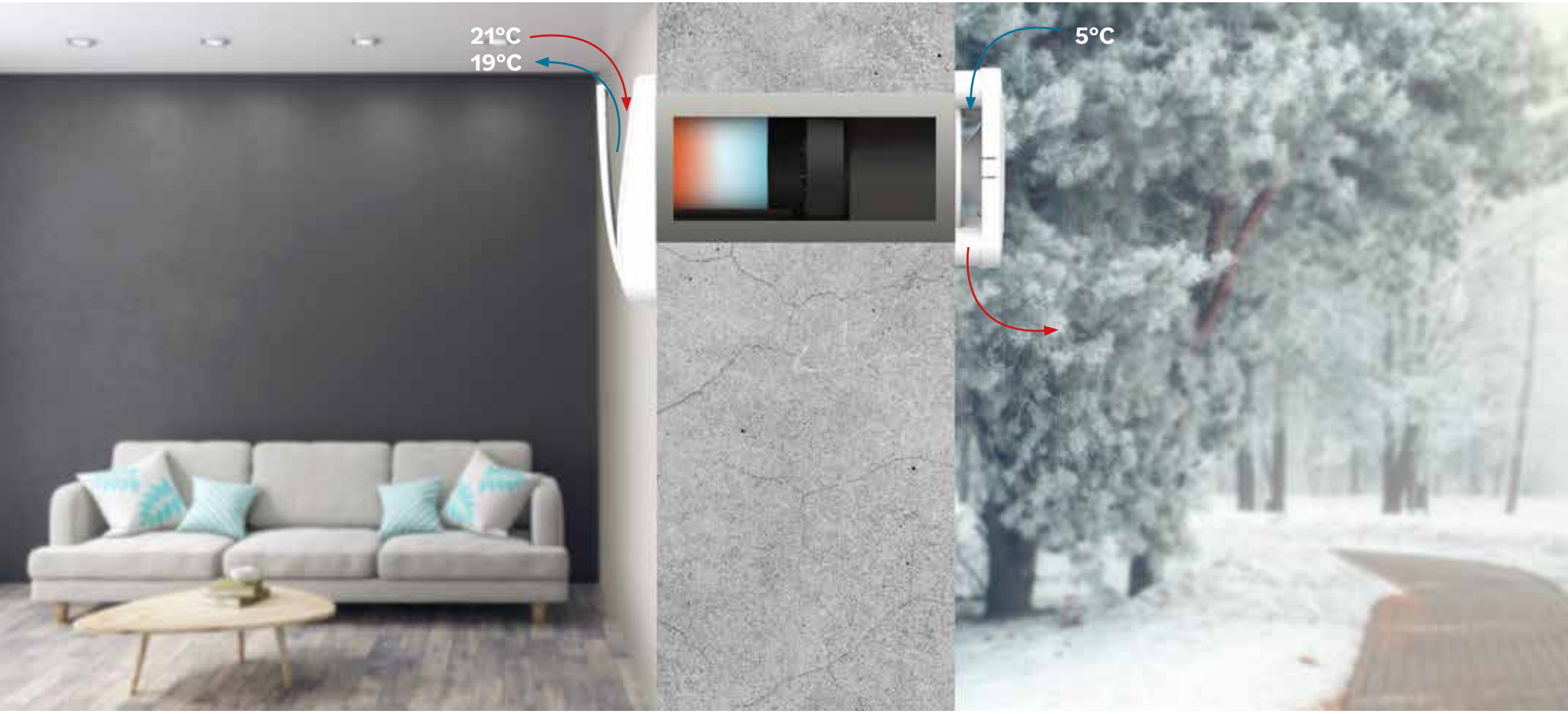
Model	Ø	Voltage	Frequency	Air flow rate m^3/h		Max press.	Pressure	Power	Noise level	Weight
	mm	Volt	Hz	in	out	mm H_2O	Pa	W	dB(A)$_{3m}$	kg
RUCTS	160	220-240	50-60	60	60	5,5	54	6,9	30	5

Performance data

Model	Night mode speed			Speed 1			Speed 2			Speed 3		
	Flow rate (m^3/h)	Flow rate (W)	Flow rate dB(A)$_{3m}$	Flow rate (m^3/h)	Flow rate (W)	Flow rate dB(A)$_{3m}$	Flow rate (m^3/h)	Flow rate (W)	Flow rate dB(A)$_{3m}$	Flow rate (m^3/h)	Flow rate (W)	Flow rate dB(A)$_{3m}$
RUCTS	15	3,9	20	30	4,2	25	45	5,9	28	60	6,9	30



Internal/external exchange



For 70 seconds RUCTS extracts the hot, stale air in the room to the outside. During the passage through the duct, the air releases its thermal energy, which is accumulated by the ceramic exchanger; at the end of this phase, the fan reverses the direction of rotation and the air input phase starts for another 70 seconds. The cold external air, passing through the hot exchanger, recovers the thermal energy and is then introduced into the environment at a more comfortable temperature. This allows for significant energy savings, as it prevents the heating system from operating at maximum power as would happen in the event of air exchange by opening the windows.

Principle of decentralized residential ventilation

Thermal energy is stored in a ceramic heat exchanger until the maximum capacity is reached. Every 70 seconds the fan changes the direction of rotation, alternating phases of air supply and exhaust. In this way it is possible to replace the air present in a room of about 20m2 every hour. The passage of air always takes place from the outside, favouring the exchange of air, which is a fundamental element for dispersing the aerosol droplets, which, as demonstrated, are dispersed through recycling.

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