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AIRSPOT 60C

Decentralized heat recovery unit.

INSTALLATION AND USE MANUAL

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CONTENTS

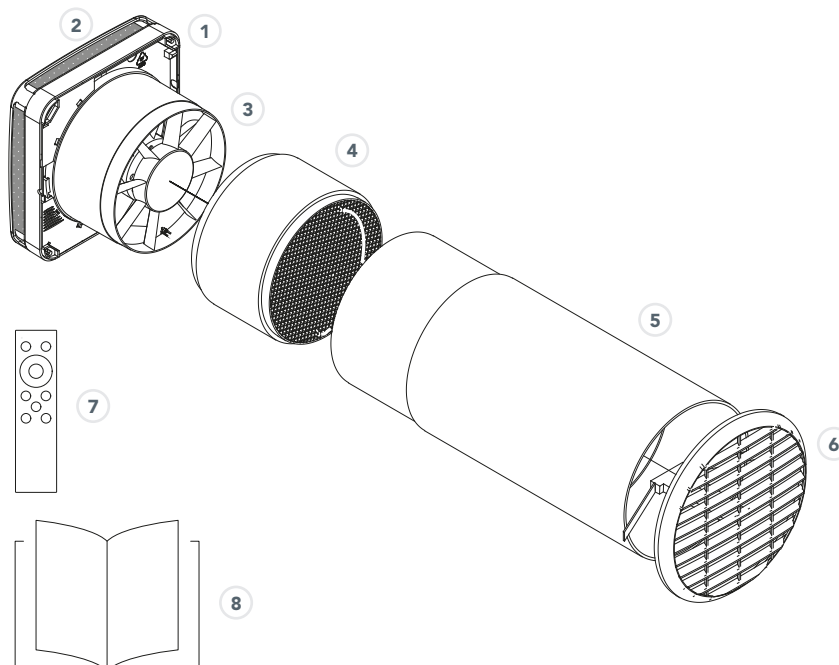
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DECENTRALIZED HEAT RECOVERY UNIT

Dear customer, thank you for purchasing a RBM AIRSPOT 60C Series high-efficiency decentralized heat recovery unit for managing air exchange and home comfort. This manual contains all the information required for correct installation and use.

You can also download this manual in digital format and in several languages by framing the QR code below and typing in the product code.

PACKAGE CONTENTS



- 1 Ventilation unit
- 2 Filter
- 3 Diffuser (*)
- 4 Heat exchanger

- 5 Telescopic tube
- 6 Grille
- 7 Remote control
- 8 Instruction manual

(*) Only included in units with Ø 160 mm code ASPC0116

1. WARNINGS



Carefully read the installation instructions, safety warnings, operating and maintenance instructions in this booklet, which should be kept for further reference.

- Installation of the device should only be carried out by qualified technicians in compliance with the regulations in force and with an omnipolar switch with a contact opening distance of 3 mm or more.
- The device is intended for ventilation with heat recovery of residential rooms; other uses are not permitted and exempt the manufacturer from any liability for the consequences of improper use, as well as in the event of incorrect installation.
- After removing the packaging, check the integrity of the device; if in doubt, do not use it.
- The use of any electrical appliance involves observing certain basic rules. In particular:
 - Do not touch the device with wet/damp hands or feet or bare feet.
 - Do not expose the device to the weather (rain, sun, etc.).
 - Before carrying out any maintenance or cleaning operations, disconnect the device from the power supply by opening the omnipolar switch on the line.
 - DO NOT power the device with the cover open.
- The device complies with European Directives 2014/30/EU and 2014/35/EU.
- Do not obstruct the suction grille.
- In accordance with current accident prevention laws, make sure that no moving parts of the device can be accessed after installation. If an appliance using gas (or other fuels) is installed in the room to be ventilated, make sure that there is an adequate exchange of air to ensure perfect combustion of the device and correct operation of the ventilation unit.
- Do not install the extractor fan in the same duct as a gas appliance.
- Only wall installation is permitted.

DISPOSAL

The symbol of the crossed-out wheeled bin indicates that the products must be collected and disposed of separately from household waste at the end of their useful life.

The user must, therefore, either return the end-of-life equipment to the appropriate separate collection centres for electronic and electro-technical waste or return it to the dealer when purchasing new equipment of an equivalent type, on a one-for-one basis. Appropriate separate collection for subsequent recycling, treatment and environmentally sound disposal of discarded equipment helps to avoid possible negative effects on the environment and health and promotes the recycling of materials from which the equipment is made. Illegal disposal of the product by the user entails application of the administrative sanctions set out in Legislative Decree No 22/1997" (Article 50 et seq. of Legislative Decree No 22/1997).

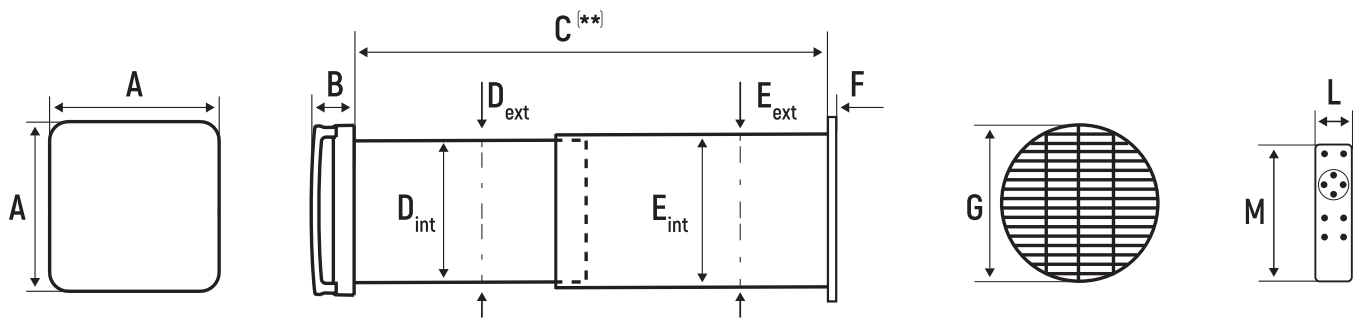


2. TECHNICAL DATA

Code		ASPC0116
Tube diameter (mm)		160
Power supply		110-230V ~50/60Hz
Flow rate (m ³ /h)	Low speed	28
	Medium speed	33
	High speed	50
	Minimum speed (night)	15
Power consumption (W)	Maximum speed (boost)(*)	55
	Low speed	2,8
	Medium speed	5,2
	High speed	8,9
	Minimum speed (night)	1,6
Noise level (dB(A) 1.5m)	Maximum speed (boost)(*)	9
	Low speed	26
	Medium speed	30
	High speed	36
	Minimum speed (night)	n.a.
Operating temperature		-20°C ÷ +50°C
Filter classification		ISO COARSE
IP		X4
Heat recovery efficiency		Up to 90%
Remote control battery life		> 24 mesi

(*) This speed cannot be selected manually (see chapter 4.5 - Activating and setting sensors)

DIMENSIONS (mm)



Code	A	B	C	D _{int}	D _{ext}	E _{int}	E _{ext}	F	G	L	M
ASPC0116	180	47	280 ÷ 530	150	154	156	160	20	190	40	150

(**) for wall thicknesses between 240 mm and 280 mm cut the tube and use a standard external grille (not supplied).

3. INSTALLATION



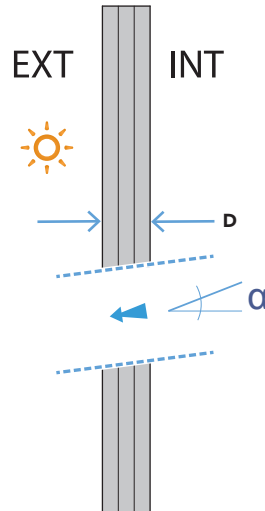
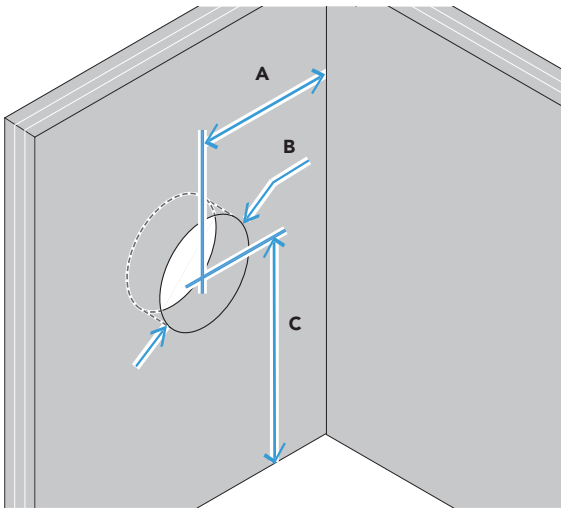
Installation and maintenance operations must be carried out with the system's electrical voltage switched off and by qualified personnel, in compliance with the regulations in force.



3.1 PREPARATION

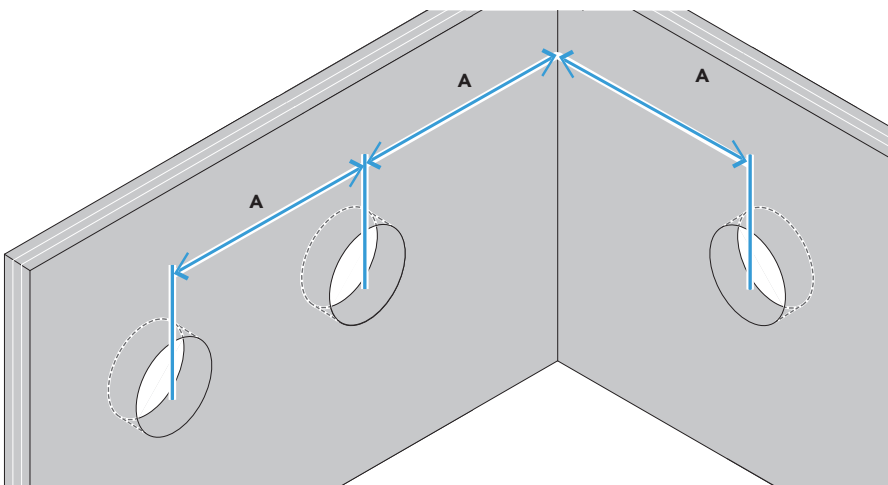
1. CORE DRILLING

Positioning of a device



A	≥ 120 cm
B	Ø 11,0 cm Ø 16,2 cm
C	≥ 230 cm
D	24 ÷ 53/57 cm
α	1 ÷ 3 °

Positioning of multiple devices

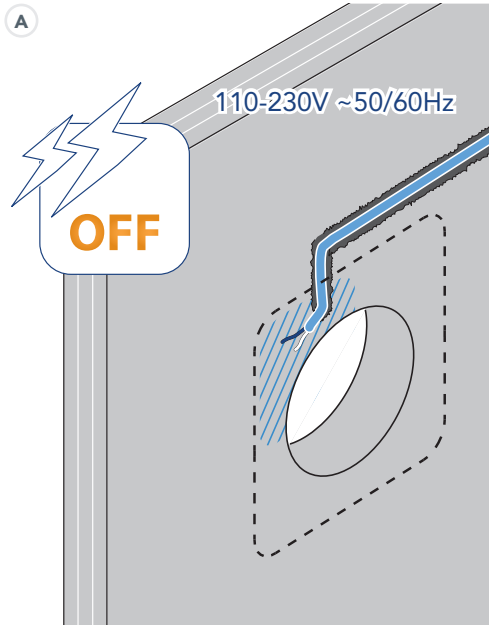


A	≥ 120 cm
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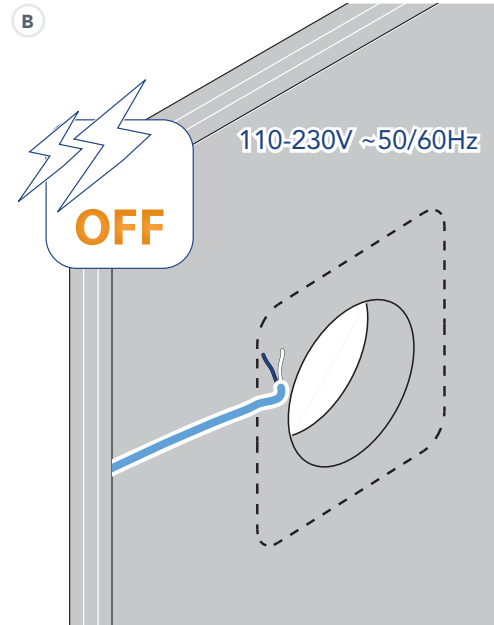


IMPORTANT
Ensure that the hole is tilted outwards (α) to avoid backflow of condensate.

2. PREPARATION FOR ELECTRICAL CONNECTION

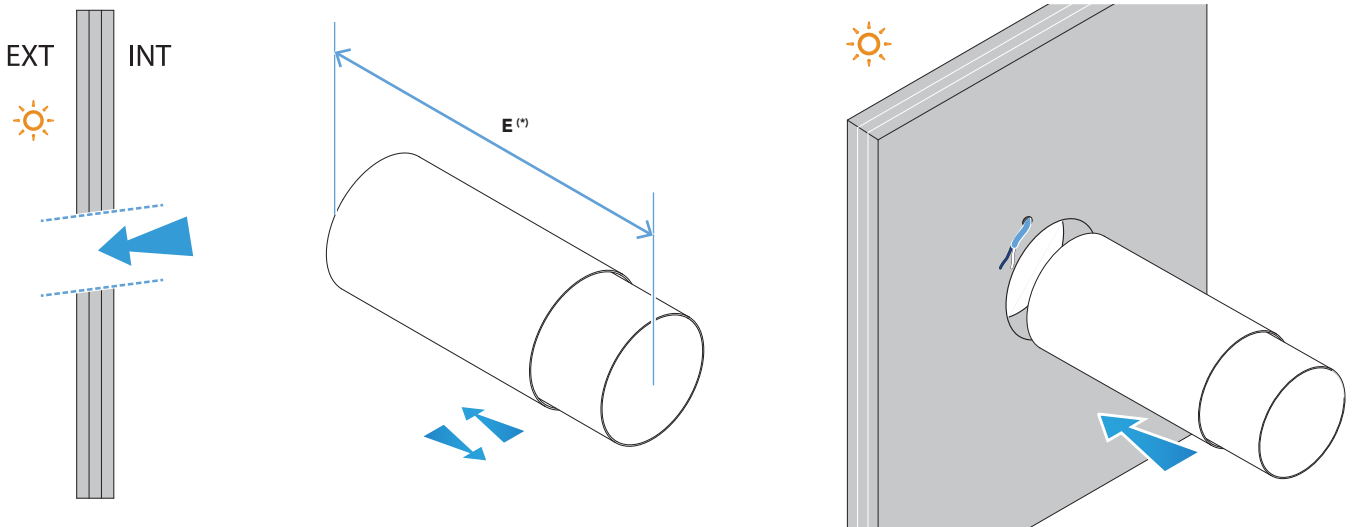


A POWER SUPPLY UNDER TRACK
Bring the power supply to the hatched area.



B EXTERNAL POWER SUPPLY
Bring the power supply from the left side to the cable feedthrough hole (see page 23 for positioning).

3. INSERTION OF THE TELESCOPIC TUBE



E	> 28 cm
	< 53 / 57 cm

(*) for wall thicknesses between 240 mm and 280 mm, use only the inner tube, cutting it to the required size; then use a standard external grille (not supplied).

IMPORTANT

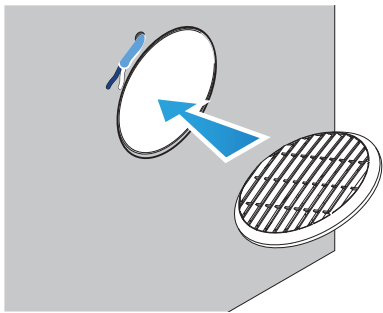
Insert the telescopic tube, positioning the larger diameter part flush with the outer wall. Slide the inner tube to bring it flush with the inner wall of the room. Ensure that the tube is properly secured.

3.2 ASSEMBLY AND ELECTRICAL CONNECTION

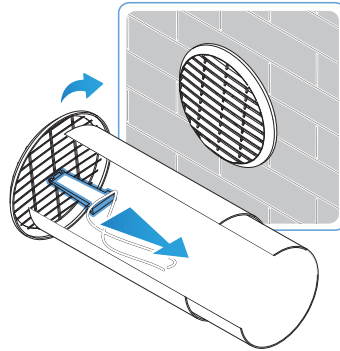


All assembly operations are to be carried out from inside the room.

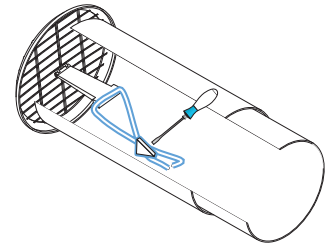
1. GRILLE POSITIONING



Insert the bent grille into the telescopic tube.



Bring the grille to the outside; then turn the grille to open and pull inwards.



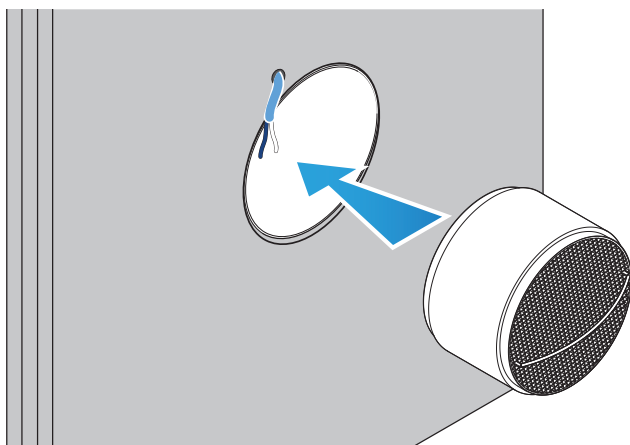
Fasten the bracket to the tube and secure the lanyard in the side slots.



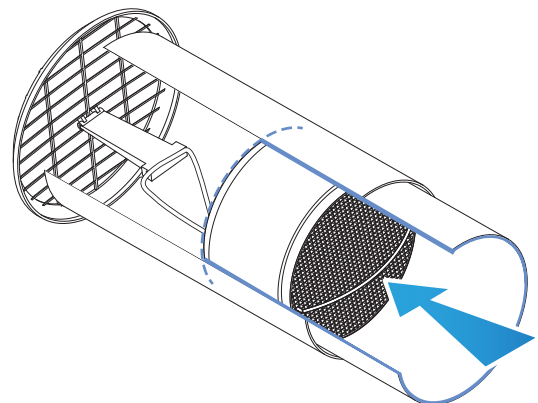
IMPORTANT

Check the orientation of the grille: the flaps must be oriented downwards to prevent rain from entering. Please refer to the grille instructions in the package.

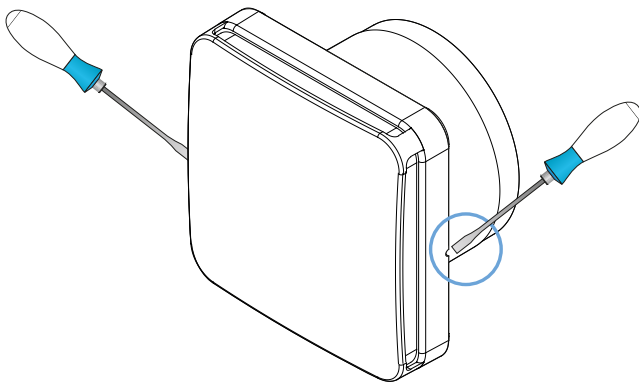
2. HEAT EXCHANGER INSERTION



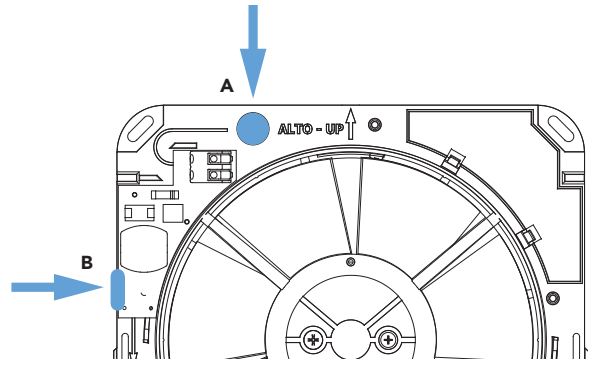
Insert the heat exchanger all the way to the end of the inner tube.



3. PREPARATION FOR FIXING THE VENTILATION UNIT



Release the cover from the motor holder by pressing on the 2 side holes with a small screwdriver.

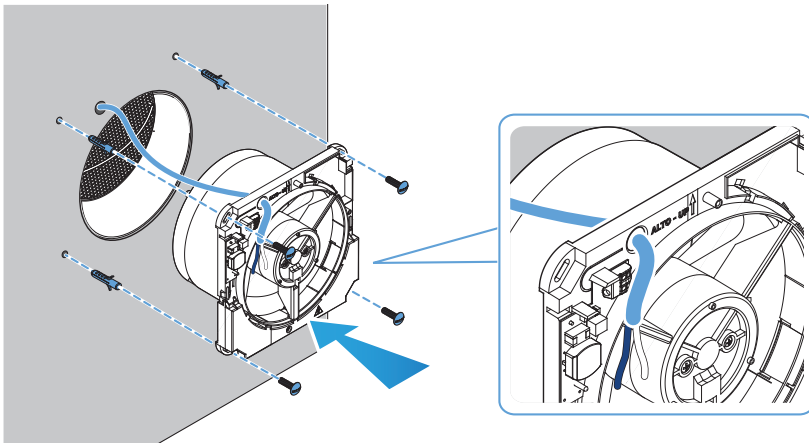


Open the hole (A) provided for cable routing; in the case of external, non-tracked connections, open the side passage (B) both on the motor holder and at the cover.

4. FIXING THE VENTILATION UNIT AND ELECTRICAL CONNECTION



Installation and maintenance operations must be carried out with the system's electrical voltage switched off and by qualified personnel, in compliance with the regulations in force.

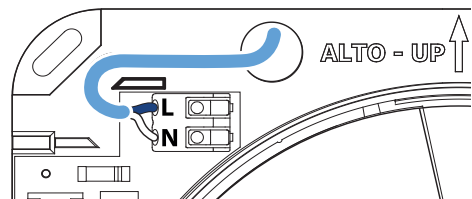


Place dowels in the fixing holes; then proceed to fix the unit to the wall by running the power cable through the hole provided.

Place the power cable in the strain relief passage and connect L and N as shown. The terminal block is of the quick-connect type; to insert the conductor, press the appropriate tab.

The device complies with double insulation standards (Class II) and therefore does not require an earth cable.

Replace the cover on the motor holder by pressing lightly.



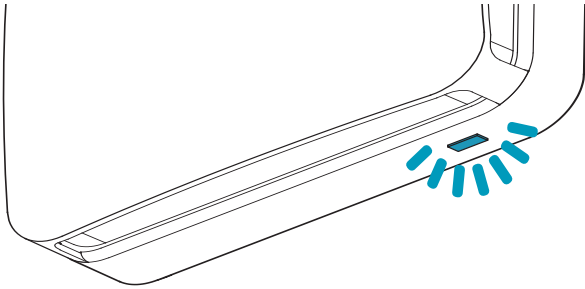
WARNING: DO NOT power the device with the cover open. To confirm that the power supply has been supplied, the device responds with 4 GREEN flashes of the LED ■■■■■.

4. USE



The ECOCOMFORT PLUS ventilation unit with heat recovery ensures a continuous and constant exchange of air in the room, preventing mould and humidity, preventing energy losses caused by opening windows, and enables heat recovery and thus a reduction in heating and cooling costs in winter and summer.

ECOCOMFORT PLUS bases its operation on the principle of

regenerative heat recovery which, through the highly efficient ceramic heat exchanger, accumulates the heat given off by the airflow leaving the room and returns it when the airflow reverses direction.

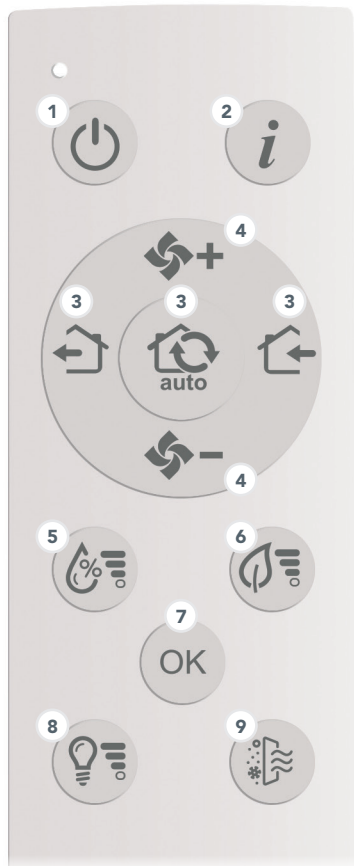


The device is operated directly from the infrared remote control and responds to each command by means of a multi-coloured LED that signals its reception with long or short flashes.

-  **LONG FLASHING**
-  **SHORT FLASHING**

During normal operation of the device, the LED remains off.

REMOTE CONTROL






- 1 **ON/OFF**
- 2 **INFO**
operating mode and speed
- 3 **OPERATING** mode
- 4 **SPEED** increase/reduction
- 5 **RELATIVE HUMIDITY** sensor
- 6 **SENSOR** air quality VOC
- 7 **SENSOR** activation confirmation
- 8 **TWILIGHT** sensor
- 9 **RESET** filter cleaning

INSERTING AND REPLACING REMOTE CONTROL BATTERIES

Open the battery compartment cover and insert 2 AAA batteries (not supplied) observing the polarities indicated.

4.1 SWITCHING ON AND OFF

Key	Mode	Operation	Led flashing	Colour
	ON	The unit switches on with the last set operating mode and speed	See operating mode table	
	OFF	Unit shuts down		RED







The device can also be switched on by directly selecting the operating modes or by increasing the speed.




















IMPORTANT

Switching off the system results in the ventilation unit shutting down with the consequent interruption of air exchange in the rooms.

4.2 SELECTING THE OPERATING MODE

Key	Mode	Operation	Led flashing	Colour
	EXTRACTION	The unit extracts air from the room for 60 minutes, then switches to "automatic cycle" mode.		RED
	INTAKE	The unit injects air into the room for 60 minutes, then switches to "automatic cycle" mode.		BLUE
	AUTOMATIC CYCLE	The unit draws in/out air from the room by automatically optimising cycle intervals and recovering heat.		RED/BLUE

4.3 SETTING THE VENTILATION SPEED

		 EXTRACTION	 INTAKE	 AUTOMATIC CYCLE
Key	Speed	RED	BLUE	RED/BLUE
	HIGH			
	MEDIUM			
	LOW			
	MINIMUM (NIGHT)			

It is possible at any time to check the current operating mode and speed by pressing the  key.

4.4 ACTIVATING AND SETTING SENSORS

To further improve indoor air quality and ensure maximum comfort during operation in "automatic cycle" mode, the following sensors can be activated:



% relative humidity: measures the percentage of relative humidity in the room (TURQUOISE LED signal)



air quality VOC: measures the PPM of Volatile Organic Compounds in the environment (GREEN LED signal)



twilight sensor: measures the light (LUMEN) in the room (YELLOW LED signal)

For each of these sensors, it is possible to select a tripping threshold, i.e. the level of humidity, air quality and/or brightness tolerated above which the device should intervene.

SENSOR ACTIVATION/DEACTIVATION AND THRESHOLD SETTING

To activate and deactivate the sensors and vary their tripping threshold:

1. Press and hold the button of the sensor you want to set for 5 sec. until the LED flashes.
2. To activate/deactivate and change the sensor tripping threshold, briefly press the relevant button. Each press increases the tripping threshold by one level up to the highest level, and then cyclically returns to "sensor not active".



With each press, the LED on the device indicates the selected threshold by flashing the corresponding colour.

3. To confirm the setting press  or wait 60 sec. for automatic confirmation.



IMPORTANT






The sensors can only intervene during operation in "automatic cycle" mode; if the minimum speed (night) is set, the sensors are temporarily disabled.

CHECKING SENSOR SETTINGS

To check the settings of each sensor, briefly press the button for the sensor you wish to check. The device will return the required information with flashes of the relevant colour as described in the sensor tables.






HUMIDITY SENSOR

The relative humidity in the room is measured when the humidity sensor is activated. If the measured value is higher than the set threshold, the ventilation unit switches to "extraction mode" at BOOST speed (maximum speed) for approx. 3 minutes. The procedure will be repeated until the set threshold is reached or a maximum of 3 times in one hour, and temporarily inhibits certain functions of the remote control.

Key	Sensor setting	Led flashing	Colour
	Sensor inactive		TURQUOISE
	Low humidity 55%		
	Medium humidity 60%		
	High humidity 65%		






AIR QUALITY SENSOR - VOC

Activating the VOC air quality sensor measures the level of Volatile Organic Compounds present in room; if the value detected is higher than the set threshold, the ventilation unit switches to "extraction mode" at BOOST speed (maximum speed) for approx. 3 minutes. The procedure will be repeated until the set threshold is reached or a maximum of 3 times in one hour, and temporarily inhibits certain functions of the remote control.

Key	Sensor setting	Led flashing	Colour
	Sensor inactive		GREEN
	Air quality EXCELLENT		
	Air quality GOOD		
	Air quality MEDIUM		

TWILIGHT SENSOR

When the twilight sensor is activated, the light level in the room is measured to allow an automatic reduction of the ventilation speed during the hours of darkness (e.g. during the night); if the light value detected is below the set threshold, the ventilation unit switches to the minimum (night) speed. The twilight sensor overrides operation of the relative humidity and VOC air quality sensors.

Key	Sensor setting	Led flashing	Colour
	Sensor inactive		YELLOW
	Speed reduction in the dark		
	Speed reduction with shadow		
	Speed reduction in semi-darkness		



IMPORTANT

Ensure that the device is not positioned in semi-darkness so that the twilight sensor can intervene properly.

5. CLEANING AND MAINTENANCE



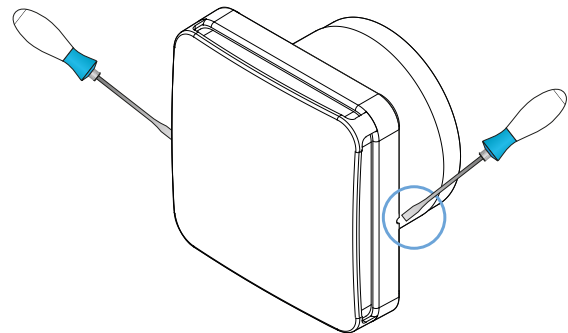
Maintenance and cleaning of the filter must be carried out with the system's electrical voltage switched off, in compliance with the regulations in force, and only by qualified technical personnel; therefore, it is advisable to agree on a periodic cleaning schedule.




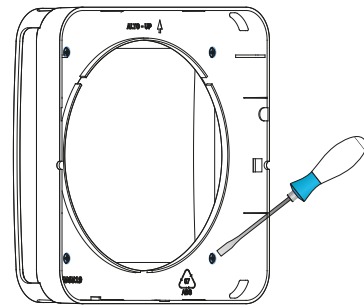
For the device to work properly, the filter and heat exchanger must be cleaned periodically.




The filter cleaning warning is signalled approximately every 1000 hours of use (depending on the speeds used) by a flashing of the **ORANGE LED** once every 60 minutes.

FILTER CLEANING: To carry out periodic filter cleaning or replacement, release the cover from the motor holder by pressing on the side holes with a small screwdriver and unscrew the four cover screws to access the filter. Wash it in cold water and let it dry well before repositioning it.



LED RESET: When you have finished cleaning the filter, press and hold the  button on the remote control until the LED flashes WHITE.



Key	LED	Colour	
	Filter cleaning required	 (every 60 minutes)	ORANGE
	Filter cleaning signal reset confirmation		WHITE

In addition, it is advisable to proceed periodically with:

CLEANING PLASTICS: after disconnecting the power supply circuit, using the utmost care, clean the parts that require it with water and neutral detergent.

HEAT EXCHANGER CHECK: it is advisable that the heat

exchanger be checked periodically to ensure that it is clean, as dirt reduces its efficiency. If necessary, remove it, wash it under running water and allow it to dry thoroughly; then reinsert the exchanger as shown on page 10, fig. 2.

6. TROUBLESHOOTING



Troubleshooting operations must be carried out in accordance with current regulations, and only by qualified technical personnel.

Problem	Possible causes	Remedies
Ventilation unit does not activate	<ul style="list-style-type: none"> • Power supply is not switched on • Remote control does not work 	<ul style="list-style-type: none"> • Check the power supply to the ventilation unit • Check that the remote control batteries are charged
Insufficient air flow	<ul style="list-style-type: none"> • Clogged filter, heat exchanger or grille • Foreign body in the piping • Clogged heat exchanger • Set speed too low • Twilight sensor in operation • Fan problem 	<ul style="list-style-type: none"> • Clean the filter • Clean piping, heat exchanger and grille • Increase ventilation speed • Check the tripping threshold of the twilight sensor • Check the ventilation unit
Insufficient heat exchanger efficiency	<ul style="list-style-type: none"> • Clogged heat exchanger 	<ul style="list-style-type: none"> • Clean the heat exchanger
Excessive vibration and noise	<ul style="list-style-type: none"> • Incorrect installation of the ventilation unit • Incorrect tube installation 	<ul style="list-style-type: none"> • Check unit fixing • Check tube fixing
Water leakage from the unit	<ul style="list-style-type: none"> • Tube installation with incorrect inclination 	<ul style="list-style-type: none"> • Check the correct installation of the tube
Ventilation unit does not change speed	<ul style="list-style-type: none"> • Relative humidity/air quality sensor VOC in operation • Remote control does not work 	<ul style="list-style-type: none"> • Wait for the end of the relative humidity/air quality VOC sensor intervention procedure • Check that the remote control batteries are charged
Ventilation unit does not change operating mode	<ul style="list-style-type: none"> • Relative humidity/air quality sensor VOC in operation • Remote control does not work 	<ul style="list-style-type: none"> • Wait for the end of the relative humidity/air quality VOC sensor intervention procedure • Check that the remote control batteries are charged

For further information and assistance please contact your installer.

7. GENERAL WARRANTY CONDITIONS

The conventional warranty lasts 24 months, starting from the date the equipment is installed.

The warranty covers all parts of the equipment, except those subject to normal wear and tear resulting from use.

RBM spa reserves the right to improve and change the products described and relevant technical data at any moment and without prior notice. The information and images contained in this document are intended for information purposes only, are not binding and in any case do not exempt the user from strictly following the regulations in force and good practice standards.

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