VASCO C400RF Including Internal Humidity Sensor User Manual

Contents

VASCO C400RF Including Internal Humidity Sensor

Specifications

- Model: Ventilation Unit with Internal Humidity Sensor
- Available Models: C400 RF with RF switch, C400 RF LE without RF switch, Fanbox C400 RF LE with RF switch and 4 valves
- Features: Continuous ventilation for a healthy indoor climate, no on/off switch, requires constant power supply

Product Usage Instructions

Installation
The ventilation unit should be plugged in at all times to ensure continuous operation. Ensure the socket is live for proper functioning.

Safety Guidelines
Only professional installers should open the unit. In case of any defects, contact a professional installer for repairs. Ensure children do not play with the appliance.

User Manual

- RF Position Switch: Controls the RF settings
- CO2 RF Switch: Manages CO2 levels
- RH RF Switch: Regulates humidity levels
- (Existing) Wired Switch: For manual control
- Motion Sensor PIR: Detects motion for automatic operation

Installation Manual for the Installer
Professional installers should follow specific instructions for installing and setting up the unit, including setting air capacity.

Maintenance
Periodically inspect the unit for contamination. Before maintenance, unplug the unit and wait for the components to stop moving. Follow maintenance instructions carefully.

Storing
When not in use, store the ventilation unit in a safe and dry place.

Parts List
Refer to the parts list for any replacements or additional components needed.

Warranty Conditions
Check the warranty conditions provided with the unit for details on coverage and terms.

Declaration of Conformity
The unit complies with relevant standards and regulations. Refer to the declaration of conformity for more information.

FAQ

Q: Can I replace the battery in the RH RF switch myself?
A: The battery replacement for the RH RF switch should be done by a professional installer to ensure proper functioning.

INTRODUCTION

The ventilation unit ensures a healthy indoor climate through continuous ventilation. This requires a minimum ventilation rate at all times. The unit is therefore not equipped with an on/off switch. The resident should ensure that the plug of the unit is always plugged in and that the socket is live. This manual applies to the models listed below:

- C400 RF including RF switch
- C400 RF LE excluding RF switch
- FANBOX C400 RF LE including RF switch and 4 valves

SAFETY

ELECTRONIC COMPONENTS

Only the professional installer is authorised to open the ventilation unit. The installer should use the appropriate tools for each of the work.
The electronic components of the ventilation unit may be under electrical tension. In case of a defect, contact a professional installer and have repairs carried out only by competent personnel.

SAFETY INSTRUCTIONS

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children must be supervised to ensure that they do not play with the appliance.
- If the power cord is damaged, it must be replaced by the manufacturer, the after-sales service or persons with similar qualifications, to avoid danger.
- The user is responsible for the safe disposal of the ventilation unit at the end of its service life, in accordance with locally applicable laws or regulations. You can also dispose of the unit at a collection point for used electrical appliances.

Very important! Lethal

- The exhaust fan creates a negative pressure in the house. It is important to ensure that no flue gases from open fire, stove or other combustion appliances can be drawn into the house. It is important that a sufficiently sized outside air supply is always provided for the (open) burning appliance.
- Always consult the installer of your combustion appliance to check that there is no danger of flue gases entering the home.
- The negative pressure in the house can be limited by ensuring that window grilles are always sufficiently open.

MAINTENANCE

The ventilation unit should be inspected periodically for contamination. For inspection, the ventilation unit should be switched off by unplugging the power cord. The ventilation unit contains rotating mechanical components. When you unplug the ventilation unit, these components continue to run for a few seconds. Therefore, wait about 20 seconds after switching off the ventilation unit so that the components are stationsry. During maintenance, always follow the instructions on page 11.
Make sure that the plug cannot be reinserted into the socket by someone else before you have finished your work. Do not plug in until the ventilation unit has been installed and all components have been fitted.

GUARANTEE
Vasco is not liable for damage caused by failure to observe the safety instructions or by failure to follow the instructions in the user manual. The warranty conditions can be found on page 13 of this manual.

MANUAL FOR THE USER

- This ventilation unit is designed to ventilate homes. The ventilation unit extracts air in the kitchen, bathroom, laundry room and toilet. This creates a negative pressure in the house, allowing fresh air to flow in through window grilles and any other openings.
- The amount of ventilation can be controlled with RF position switch, CO2 RF switch or the RH RF switch + the built-in RH stab sensor + the motion sensor.
- It is not allowed to connect a hood with motor or a dryer to the ventilation unit.
- The ventilation unit can be controlled by a linked switch. More instructions on how to link the switch can be found on page 8.

INTERNAL HUMIDITY SENSOR

Internal humidity sensor
The internal moisture sensor continuously records the moisture level at 5-second intervals. When moisture increases greater than 2%, “Internal Moisture Control” becomes active. During this “Internal Moisture Control”, the ventilation setting will be minimum “Medium”. When the humidity level has dropped again, ventilation setting “Medium” remains active for another 15minutes. The unit then returns to the original ventilation setting.

RF position switch
For the C400 ventilation units including RF switch, a coupled RF mode switch is supplied with the ventilation unit. In the middle of the switch, an LED is provided that lights up green once if the requested position is correctly communicated.

	Press button	Position	Description
	1x	**positio n 1 (low)**	Vasco recommends using this mode during absences.
	1x	**position 2 (middle)**	This is the default position during presence.
	1x	**setting 3 (high)**	This is the recommended setting when showering and bathing. Can also be used when there is an increased ventilation need (visitors, family party, ...).
	1x	**30 minutes in position 3**	After this period, the device switches back to the previous mode. Premature termination is possible by pressing a position.
	3 sec	**autostand**	If you combine the ventilation unit with a CO_2 RF switch, the ventilation unit returns t o auto mode.

CO2 RF switch

The ventilation unit is expandable with a CO2 RF switch that allows you to choose a fixed flow rate or a flow rate according to your needs. By touching the control area at the bottom several times, you can scroll between the different modes. The LED at the top right indicates the mode.

	Position	Description
	positio n 1 (low)	Vasco recommends using this mode during absences.
	position 2 (middle)	This is the default position during presence.
	setting 3 (high)	This is the recommended setting when showering and bathing. Can also be used when there is an increased need for ventilation (v i s i t o r s , family parties, etc.).
A	**eco mode**	In this automatic mode, the ventilation unit adjusts the ventilation rate according to the number of people in the room where the switch is set up. At this setting, minimum indoor air quality is guaranteed to save maximum energy. Vasco recommends using this setting in winter periods.
A	**comfort setting**	In this automatic mode, the ventilation unit adjusts the ventilation rate to the number of people in the room where the switch is set up. This control guarantees you a higher indoor air quality. Vasco recommends using this setting in summer periods.

RH RF switch

The ventilation unit is expandable with an RH RF switch that temporarily boosts the ventilation flow rate when you take a shower, for example. By touching several times on the control area at the bottom, you can scroll between the different modes. The LED at the top right indicates the mode.

	Position	Description
	positio n 1 (low)	Vasco recommends using this mode during absences.
	position 2 (middle)	This is the default position during presence.
	setting 3 (high)	This is the recommended setting when showering and bathing. Can also be used when there is an increased need for ventilation (v i s i t o r s , family parties, etc.).
A	**autostand medium**	At this setting, the air flow rate remains fixed at the flow rate corresponding to the last ventilation setting selected. In case of a sudden increase i n relative humidity (showering), the ventilation unit automatically switches to the middle setting.
A	**autostand maximum**	At this setting, the air flow rate remains fixed at the flow rate corresponding to the last ventilation setting selected. In case of a sudden increase i n relative humidity (showering), the ventilation unit automatically switches to the high setting.

- (existing) wired switch

  You can also control the ventilation unit via a wired switch. When the switch is operated, the ventilation unit always adjusts the flow rate instantaneously. You can still use the RF switches to switch back to a lower or higher setting. However, the mechanical switch will no longer indicate the correct setting.
- Motion sensor PIR

  The motion sensor detects movement close to the sensor. If motion is detected, the motion sensor communicates with the ventilation unit via wire-free communication (RF). The ventilation unit will activate ventilation mode medium. If a higher ventilation setting was already active, it will be maintained.
- User interface (UI) settings

  In standby mode, no LEDs are lit. If the control zone is operated for 10 seconds while the status LED is off, status LED flashes between blue and green to indicate that the menu for user interface (UI) settings can be entered. Releasing the control zone now opens the menu.
- Standby user interface (UI)

  The settings menu can be used to configure the time switch. When the user interface (UI) settings menu is opened, the current status of the time switch is indicated by the 5 LEDs. Each time the control zone is operated, the next position of the time switch is selected. If the control zone is not touched for at least 10 seconds, it automatically the standby user interface (UI) is activated. When the user interface (UI) menu is exited, the selected time switch position is used and saved.

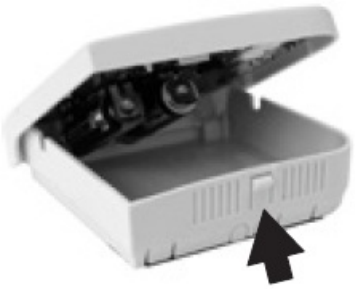
  The time switch can be used to switch on a lamp. For example, if status level 3 is active, the lamp will light for 60 seconds after a motion

  detection.

Status	Time	LEDs
Level 1	10 s	■
Level 2	30 s	■■
Level 3	60 s	■■■
Level 4	120 s	■■■■
Level 5	300 s	■■■■■

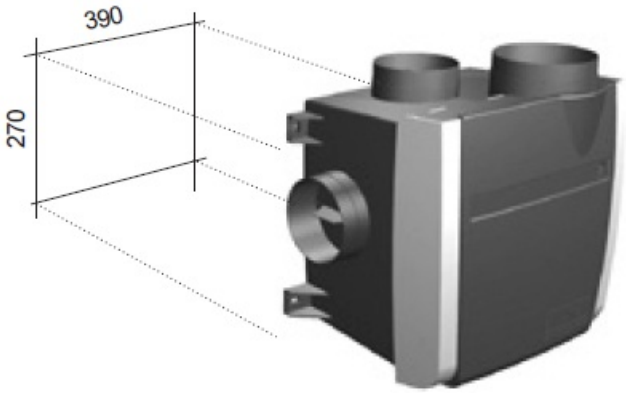
Maintenance of ventilation unit
The user should ensure that the complete installation is periodically maintained by the installer. The installer should follow the operations described on p. 11.
Under normal operating conditions, this maintenance should take place 4 to 5 times a year. If a extractor hood is connected, this frequency should be increased depending on the degree of soiling.

Replacing batteries RH RF SWITCH
The batteries in the RH RF switch for the bathroom must be replaced periodically. To do this, remove the front panel. The 1.5 V AA batteries are now visible and can be replaced.

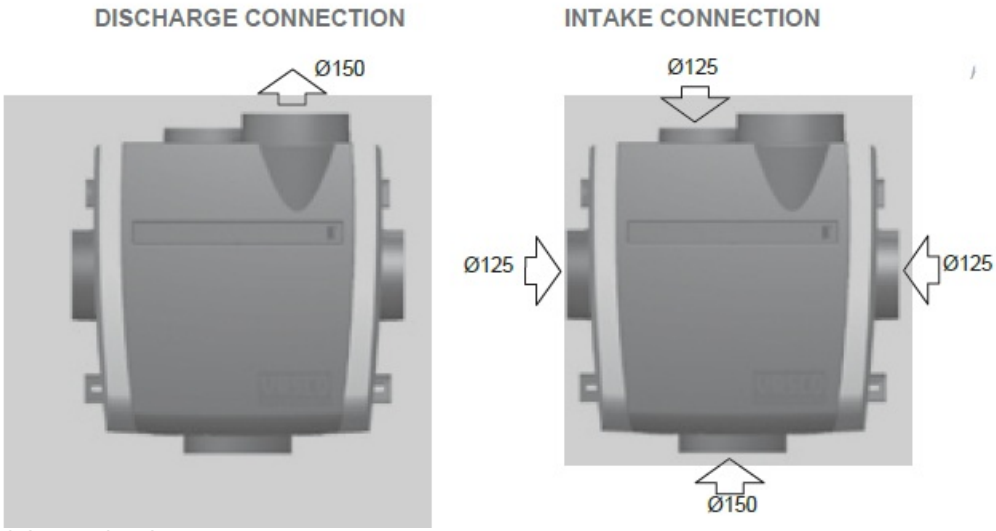


INSTALLATION MANUAL FOR THE INSTALLER

MOUNTIN G VENTILATION UNIT
The ventilation unit should be installed in a frost-free room. The ventilation unit should be mounted on a wall (can also be ceiling, floor or sloping roof) with four screws. Dowels and screws are not supplied. Use suitable fixing materials according to the wall construction. Ensure that the ventilation unit is mounted in such a way that it can be dismantled at any time for maintenance work.



AIR DUCT CONNECTIONS
Install with the lowest possible air resistance and free of leakage. Minimise the use of flexible pipes.



ELECTRICAL CONNECTION

The suction connections must be opened according to use and position. At the rear, an intake connection of up to Ø270 mm can be provided. In the latter case, the use of a sealing ring (not supplied) is recommended.
The ventilation unit must be connected in accordance with the standards and locally applicable regulations. Supply voltage 230V±10%, single-phase, 50Hz.

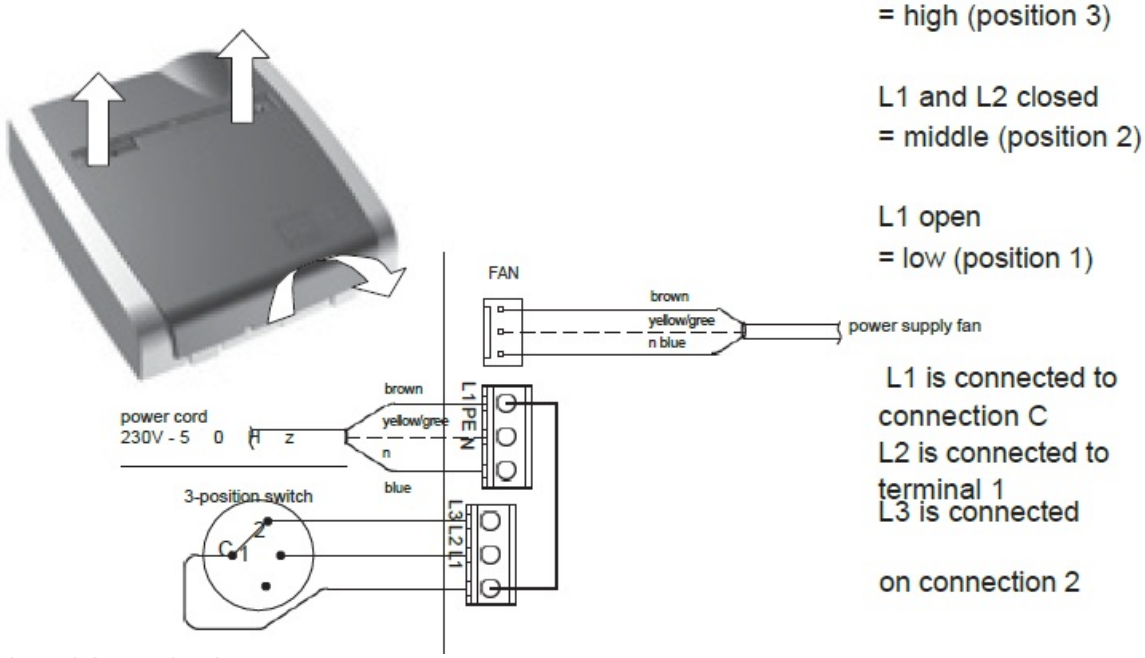
All C400 ventilation units are equipped with a cord with a standard edge-to-earth plug for electrical connection. Do not plug in until all parts of the ventilation system have been installed.

THREE-POSITION SWITCH C400

Three ventilation speeds can be selected with this type of switch. Before you wish to connect the position switch, unplug it. The unit's electronics are located behind the front plate of the fan housing. Click off the front cover plate. There are two screws behind the cover plate. Remove the two screws and tilt the cover downwards. The electronics are now freely accessible.

THREE-POSITION SWITCH C400

THREE-POSITION SWITCH C400



L1 en L3 closed
= high (position 3)

L1 and L2 closed
= middle (position 2)

L1 open
= low (position 1)

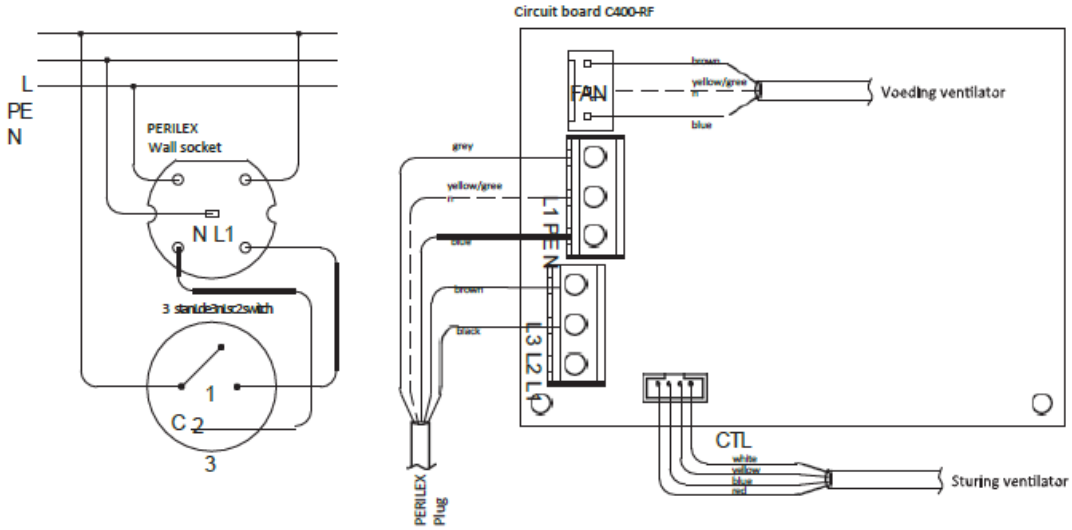
L1 is connected to connection C
L2 is connected to terminal 1
L3 is connected

on connection 2

ELECTRICAL CONNECTION PERILEX

Each C400 ventilation unit can be connected with a Perilex plug (not supplied). Insert the Perilex plug into the Perilex socket (not supplied) when all components of the ventilation system are installed.
Always check that the positions of the switch correspond to the electrical diagram below.

STANDARD SCHEDULE: PERILEX THREE-POSITION SWITCH



MOUNTIN G SWITCHES

To comply with the ErP Ecodesign 2009/125/EC directive, at least one CO2 RF switch or one RH RF switch must be installed.

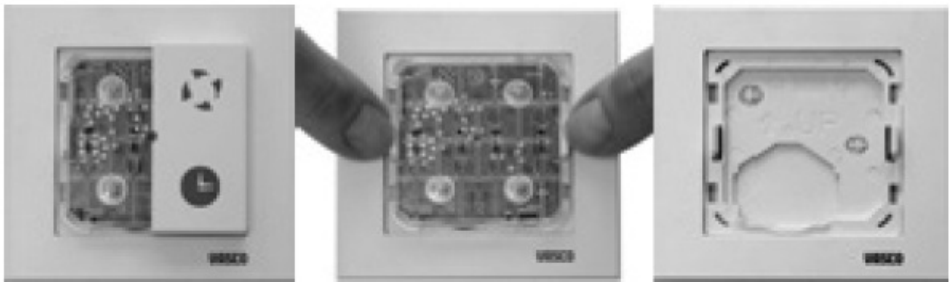
Mounting tips:

Always place the switch away from places where moisture droplets may form.Never place the wall transmitter in a metal housing or near large metal objects.

MOUNTING RF SWITCH

Always mount the RF position switch in an easily accessible location.

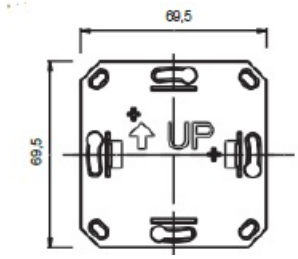
1. Loosen the knobs and electronics module to release the wall-mount base plate.



2. Mark out screw holes from the base plate on the wall.
3. Mount the base plate to the wall with screws.
4. Assemble in the following order:

Always mount the CO2 RF switch in an easily accessible location in the room whose CO2 concentration you wish to monitor. Always provide a 230V supply voltage at the switch.

MOUNTING CO2 RF SWITCH

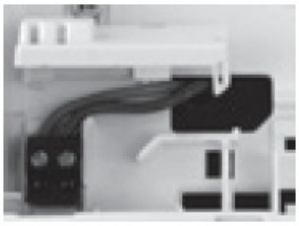


Window | Base 2 | Electronics and buttons

1. Dismantle the switch.
2. Screw the base plate to the wall

3. Open the cover on the base plate to reveal the electrical connections.
4. Connect the 230V power supply to the connectors.
5. Replace the cover on the switch.

Step



3Step

4Step 5

MONTAGE Motion sensor PIR

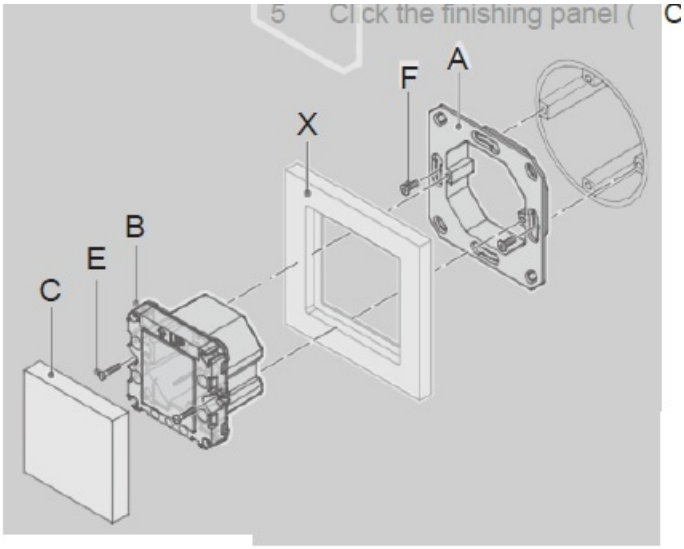
Always mount the motion sensor in a place where movement can be detected easily. Always provide a 230V power supply at the switch.

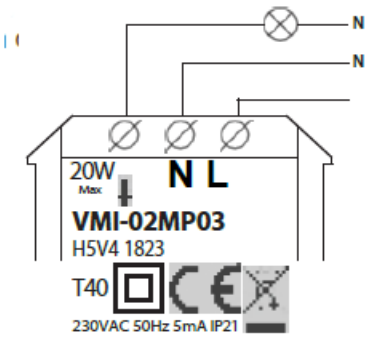
1. Dismantle the switch.
2. Screw the base plate (A) onto the provided flush-mounting box using the screws (F) provided
3. Connect the power cable (230V) to the motion sensor connectors (B) by inserting it through the finishing panel (X).
4. Screw the motion sensor (B) to the base plate (A) using the screws (E) provided.

   Click the finishing panel (C) on the motion sensor (B).

ELECTRICAL CONNECTION Motion sensor PIR

The electrical diagram below shows the electrical connection clarified. Both connections (N&L) are required for The basic operation of the sensor. A maximum of a 20W lamp can be switched. L





MOUNTING RH RF SWITCH
Always mount the RH RF switch in an easily accessible place in the bathroom.

1. Dismantle the switch.
2. Mark out the screw holes of the base plate on the wall.
3. Screw the base plate to the wall.
4. Replace the cover on the switch.

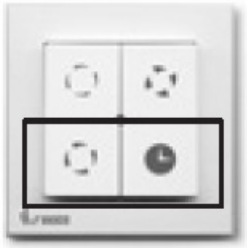
Step 1Step 3Step 4

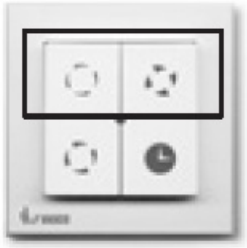
CONNECTING SWITCHES

As standard, the switch supplied ex-factory is linked to the ventilation unit. In total, up to 20 switches can be linked to the system.

LOGGING ON AND OFF ADDITIONAL OPTIONAL RF POSITION SWITCH

- Log on: Unplug the ventilation unit and reinsert it. After this, the ventilation unit will search for new switches for 10 minutes. Press the button of stage 2 and timer simultaneously for at least 3 seconds. If the pairing operation is successful, the LED in the middle will light up green twice.
- Tip: You can link one switch to a maximum of 3 units. To do so, follow the actions above for each switch. When pairing, make sure that only one ventilation unit is energised or that the other units nearby are energised for at least 15 minutes.
- Logging off: Unplug and reinsert. The ventilation unit may disconnect switches for 10 minutes.
- Press the button of position 1 and 3 simultaneously for a minimum of 3 seconds. The switch LED lights up orange 2x to indicate that the switches are disconnected.





SWITCHING ON AND OFF ADDITIONAL OPTIONAL CO2 RF SWITCH

- Log on: Unplug the ventilation unit and reinsert it. After this, the ventilation unit will search for new switches for 10 minutes. Then snap the sensor onto the bottom plate to return it to power.
  Touch the control area at the bottom right for a minimum of 3 seconds. When all LEDs are flashing, release the control zone. If the header action is successful the
- LED in the top left corner lights up 2x green and an LED will light up on the right indicating the position of the CO2 RF switch. Tip: You can link one switch to a maximum of 3 units. To do so, follow the actions above for each switch. When connecting, make sure that only one ventilation unit is energised or that the other units in the vicinity are energised for at least 15 minutes.
- Logging off: Briefly de-energise the switch by clicking it off and back into the base plate. The switch can disconnect ventilation units for 10 minutes. Touch the control zone for at least 10 seconds.
  bottom right. When all LEDs light green for the 2nd time, release the operating zone. In case of multiple logged-in ventilation units, this will log off all logged-in units. The switch's LED lights red 4x to indicate that the units have been de-registered.

CONNECTING AND DISCONNECTING ADDITIONAL OPTIONAL RH RF SWITCH

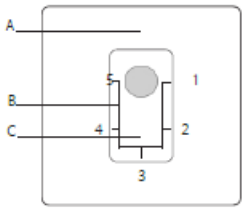
- Log on: Unplug the ventilation unit and reinsert it. After this, the ventilation unit will search for new switches for 10 minutes. Then remove the batteries from the sensor and replace them. (see replacing batteries RH RF switch). Touch the control area at the bottom right for a minimum of 3 seconds. When all LEDs are flashing, release the control area. If the header action is successful, the LED in the top left corner lights up 2x green and an LED will light up on the right indicating the position of the RH RF
- switch. Tip: You can link one switch to a maximum of 3 units. To do so, follow the procedure above for each switch. When pairing, make sure that only one ventilation unit is energised or that the other units in the

neighbourhood are energised for at least 15 minutes.

- Logging off: Briefly de-energise the switch by removing the batteries from the sensor and putting them back in (see Replacing batteries RH RF switch). The switch can de-energise ventilation units for 10 minutes. Touch the control area at the bottom right for a minimum of 10 seconds. When all LEDs light up for the 2nd time, release the operating zone. In the case of several ventilation units being switched on, this will unlock all logged-off units. The switch's LED lights red 4x to indicate that the units have been disconnected.

CONTROL SWITCHES

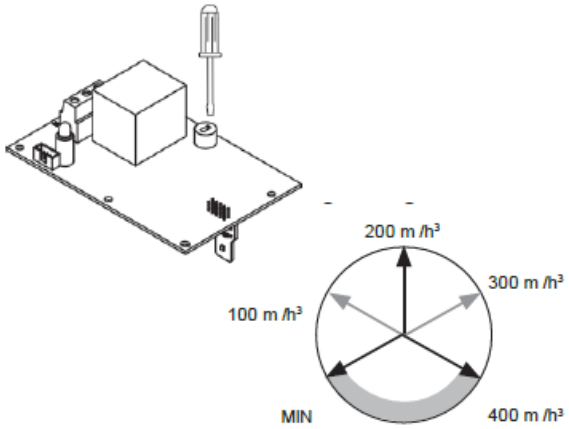
IMPLEMENTATION Motion sensor PIR
Log on: Briefly de-energise the ventilation unit by removing the plug from the socket and replace it. After this, the ventilation unit will search for new switches for 10 minutes. Connect the power cable of the motion sensor. All LEDs will light up for 3 seconds. After 3 seconds, the status LED will light up green. The green LED will light after 2 seconds flashing when motion is detected. Now hold down the control zone for 10 seconds. When the status LED flickers between green and red, you can release the control panel. If the pairing was successful, the status LED will briefly flash green. If the status LED briefly flashes red, the pairing was unsuccessful and the registration process will have to be repeated



A: Status LED
B: Mode LEDs
C: Touch Button

COMMISSIONING AND ADJUSTMENT

Setting the air capacity:
The flow rate in position HIGH can be set by means of the potentiometer. The potentiometer is located on the PCB. The flow rate of position "HIGH" can be set by rotating the potentiometer with a flat screwdriver. If it is turned fully anti-clockwise, the ventilation unit is set to its minimum. When the it is turned fully clockwise, the ventilation unit is set to its maximum. The maximum of the unit corresponds to 400m³/h at 150Pa. The figure below gives a guide value for setting the potentiometer.



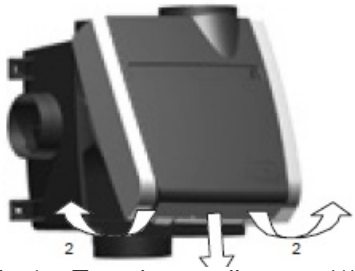
Settings

	C400 Basic RF			C400 Basic RF LE			FANBOX C400 Basic RF LE		
fan mode	1	2	3	1	2	3	1	2	3
Capacity [m³/h]	100	200	400	100	200	400	100	200	400
Pressure [Pa]	15	40	150	15	40	150	15	40	150
Voltage [V]	230	230	230	230	230	230	230	230	230
Power [W]	4,6	11,4	58,8	4,8	11,6	60,3	4,8	11,6	60,3

MAINTENANCE

The user should ensure that the complete installation is periodically maintained by the installer.
Disconnect the mains plug before starting maintenance work.

CLEANING THE FEED BOX

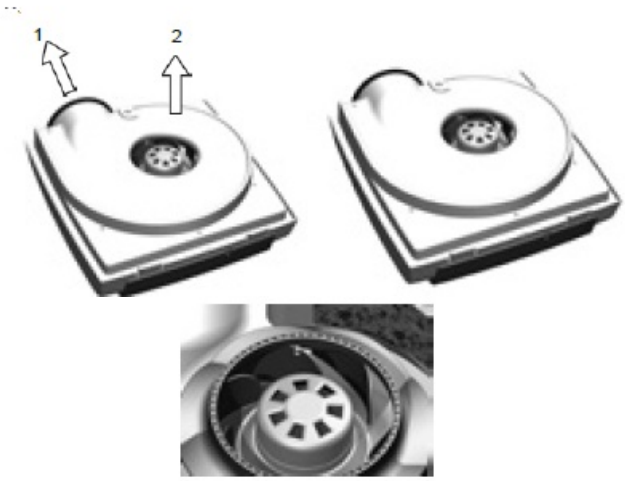


Dismantle the fan housing from the supply bo1x. Turn the small screw (1) at the bottom completely out. Release the two snap connections (2) at the bottom by hand and tilt the fan housing upwards, away from the supply-box. Clean the supply box with a damp cloth.

CLEANING OF THE FAN

Remove the sealing ring (1) and the six screws at the back of the fan housing and remove the back panel (2). The fan is now accessible for cleaning.

Clean the fan wheel with a cloth. Take care not to touch the balancing clips on the fan blades.
Clean the inner sides of the housing with a damp cloth.



PROBLEM SOLVER

STORING

LED switch lights up red when operated Possible causes are:

- Switch not paired, see pairing switch
- Transmission range insufficient
- Place the switch where it can receive the signal
- No voltage on the ventilation unit
- Plug does not plug in.
- The socket is de-energised. Check the fuse in the fuse box.
- Power supply cable damaged/not connected to the circuit board of the ventilation unit.
- Circuit board defective

  LED switch lights up red 2x when operated

Possible causes are:

- Fan cables damaged/not connected
- Circuit board defective
- Fan defective
- Ventilation unit makes abnormal noise

Possible causes are:

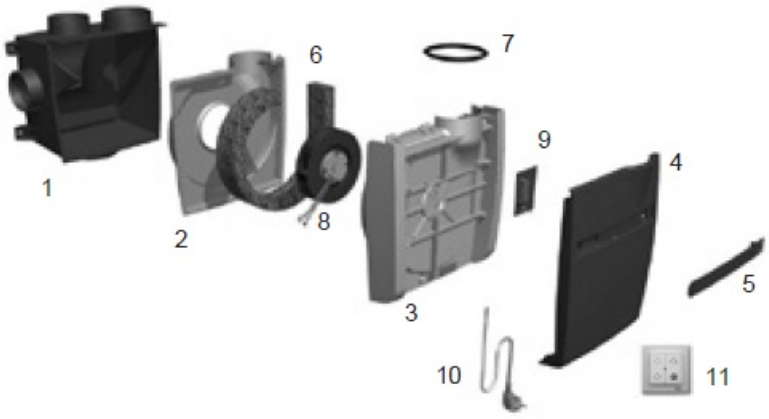
- Set air capacity does not match calculated air capacity
- Air ducts not fitted correctly
- Fan is dirty, see maintenance of ventilation unit (p. ?)
- Fan defective

Reading on the PCB if no RF switch is connected
If no RD switch is connected to the ventilation unit, any faults can be read by means of the LED on the PCB.

- LED indicator board Error code
- Green Normal operation
- 2 x red Ventilation malfunction
- 7 x red Internal humidity sensor malfunction
- 5 sec orange Identification

PARTS LIST

1. Supply box
2. Rear wall fan
3. Front wall fan
4. Front wall drain box
5. Cover plate
6. Insulation block
7. Sealing ring
8. Fan 85W190 (Art. no. 11VE51101)
9. RF + RH pitch sensor circuit board (Art. no. 11VE51416)
10. Plug
11. Switch (Art. no. 11VE20012)



WARRANTY CONDITIONS

Vasco declares a warranty on the Vasco C400 for 2 years from the date of purchase. The invoice date from the installation company applies as proof of purchase date. If no invoice is available, the production date will apply as the date of purchase. The warranty includes only VASCO’s free supply of a replacement fan and electronics board. No additional warranty period is provided on repairs. The warranty does not cover:

- Disassembly and assembly costs
- Defects which, in our opinion, result from improper handling, negligence or accident
- Defects caused by treatment or repair by third parties without our consent
- Defects resulting from non-regular and/or non-professional maintenance
- Defects resulting from use in an unsuitable environment No warranty will be provided if the ventilation unit is used in these described conditions. For the return of defective parts, the installer should contact Vasco. The installer will then receive a warranty return number. The defective parts must be sent to Vasco stating this return number.

DECLARATION OF CONFORMITY

This declaration of conformity is issued under the full responsibility of Vasco Group nv, Kruishoefstraat 50, B-3650 Dilsen

The product described, extraction ventilation unit:
C400RF / C400RF LE / RENOBOX C400RF LE / FANBOX C400RF LE. Complies with the following Directives:

- 2014/53/EU (Radio Equipment Directive)
  - Art. 3.1.a
  - EN 60335-1:2012 + AC:2014 + A11:2014 + A13:2017 + A1:2019 + A2:2019 + A14:2019
  - EN 60335-2-65:2004 +A1:2009 + A2:2012
- EN 62233:2008
  - Art 3.1.b
  - EN 61000-3-2:2014
  - EN 61000-3-3:2013
  - EN 55014-1:2017 + A11:2020
  - EN 55014-2:2015
  - EN 301 489-1 V1.9.2
  - EN 301 489-3 V2.1.1
- Art. 3.2
  - EN 300 220-2 V3.1.1
  - 2011/65/EU (RoHS)
  - EN IEC 63000:2018
  - 2009/125/EU (ErP-Directive)
  - VO (EU) No 1253/2014
  - VO (EU) No 1254/2014

The notified body DE NAYER (NB number 2758) has issued the EU type-examination certificate under conformity assessment procedure Module B with number: TCF-LDN 2023.01.001 – Ed.1
The product bears the CE label.
September 18, 2023

Peter Ketelslegers
Vasco Group nv, Kruishoefstraat 50, -3650 Dilsen

PERFORMANCE DECLARATION

Declaration of performance for ventilation units according to Regulation (EU) No 1254/2014 & 1253/2014							
Type designation of the supplier		**Vasco C400RF (LE)**			**Vasco C400RF (LE)**		
	Climate type	“Cold”	“Moderate”	“Warm”	“Cold”	“Moderate”	“Warm”
Specific energy consumption (SEC)	kWh/(m²a)	-25,72	-14,69	-5,74	-29,03	-16,48	-6,66
SEC class		C	E	F	B	E	F
Residential ventilation unit (RVE) Non-residential ventilation unit(NRVE)	RVE/NRVE	RVE			RVE		
Typology of the ventilation unit		One-way ventilation unit (EVE)			One-way ventilation unit (EVE)		
Type of drive (fan)		Variable speed			Variable speed		
Type of heat recovery system		No			No		
Thermal efficiency of theheat recovery	%	0%			0%		
Maximum flow rate	m³/h	400			400		
Electrical input power	W		44,2	(49,5)		44,2	(49,5)
Sound power level LWA	dB(A)		48	(56)		48	(56)
Reference flow rate	m³/s	0,0778			0,0778		
Reference pressure difference	Pa	50			50		
Specific input power (SPI)	W/m³/h	0,068			0,068		
Scheme typology		Manual control (no DCV)			Clock control (no DCV)		
Control factor		1			0,95		
Maximum internal and external leakage	Internal	–			–		
	External	4,95%			4,95%		
Instructions for installing regulated intake grilles in external walls for natural air supply		Install fresh air intake grilles in the external walls of the so-called “dry rooms” in the house. After this, follow the manufacturer’s instructions.					
Internet address for pre-assembly/ dismantling instructions		www.vasco.eu			www.vasco.eu		
Annual electricity consumption (AEC) per100m² surface area	kWh/a	663	126	81	655	118	73
Annual heating savings (AHS) per 100m² surface area	kWh Primary energy/year	3355	1715	776	3667	1874	848

Declaration of performance for ventilation units according to Regulation (EU) No 1254/2014 & 1253/2014
These technical data are only valid if the ventilation unit is installed in accordance with the manufacturer's instructions.

Vasco C400RF (LE) + 1 sensor			**VascoC400RF (LE) + 2 sensors**			
"Cold"	"Moderate"	"Warm"	"Cold"	"Moderate"	"Warm"	Climate type
-35,63	-20,02	-8,46	-48,69	-27,00	-11,95	kWh/(m²a)
A	D	F	A+	B	E	
RVE			RVE			RVE/NRVE
One-way ventilation unit (EVE)			One-way ventilation unit (EVE)			
Variable speed			Variable speed			
No			No			
0%			0%			%
400			400			m³/h
	44,2	(49,5)		44,2	(49,5)	W
	48	(56)		48	(56)	dB(A)
0,0778			0,0778			m³/s
50			50			Pa
0,068			0,068			W/m³/h
Central needs-based control			Local needs-based scheme			
0,85			0,65			
–			–			Internal
4,95%			4,95%			External
Install fresh air intake grilles in the external walls of the so-called "dry rooms" in the house. After this, follow the manufacturer's instructions.						
www.vasco.eu			www.vasco.eu			
640	103	58	616	79	34	kWh/a
4290	2193	992	5536	2830	1280	kWh Primary energy /year

Documents / Resources

VASCO C400RF Including Internal Humidity Sensor [pdf] User Manual
C400RF Including Internal Humidity Sensor, C400RF, Including Internal Humidity Sensor, Internal Humidity Sensor, Humidity Sensor

References

- Home - Vasco
- Home - Vasco
- User Manual