

RH (HUMIDITY) RF SWITCH

DESCRIPTION

The Vasco ventilation unit is extendable with an RH RF switch (except for the D150 Compact and Energy Plus: not compatible) which temporarily increases the ventilation flow when a rise in humidity is detected. The ventilation unit only reacts to a linked RF switch.

- control zone in the lower right
- status LED in the upper left
 - lights up after operation
 - feedback communication / status of ventilation unit
- identification LED in the upper right, indicates the current level of the ventilation unit
- the possibility of combining up to 3 ventilation units on one or several remote controls
- the possibility of linking up to 20 RF switches (3-position/CO₂/RH (humidity)) with 1 ventilation unit
- wireless RF communication with the ventilation unit (Radio frequency signal: 868.3 MHz)
- battery powered (via 2 included AA batteries)
- expected battery service life: 2 years
- operating temperature: 0 - 40°C
- measurement range: 0 - 100% relative humidity (RH)
- measurement tolerance:
 - 3% RH between 10 - 89% RH
 - 7% RH at 0 - 10% RH and 90 - 100% RH
- measurement resolution: 1% RH
- measurement stability: 1.5% RH during 5 years
- dimensions l x w x h: 92x23x92 mm
- housing: plastic
- protection rating: IP30
- wall surface mounting (screw fastening)





TECHNICAL DATA

Symbol	Function	Description
	Ventilation setting 1	Ventilate at 25% of the maximum set air flow.
	Ventilation setting 2	Ventilate at 50% of the maximum set air flow.
	Ventilation setting 3	Ventilate at 100% of the maximum set air flow.
	Eco mode	In case of an increase of the RH, the ventilation unit will switch to level 2 for 60 minutes. After that it returns to its previous level.
	Comfort mode	In case of an increase of the RH, the ventilation unit will switch to level 3 for 30 minutes. After that it returns to its previous level.

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TECHNICAL DATA

Symbol	Function	Description
 (3 sec.)	Activating extra optional RH RF switch	Take the ventilation unit plug out of the socket and put it back in again. After this, the ventilation unit will search for new switches for 10 minutes. Touch the control zone at the bottom right for at least 3 seconds. When all of the LEDs are blinking you must release the control zone. If the connection is successful, the LED in the upper left corner lights up green twice, and on the right a LED lights up that indicates which setting the RH RF switch is in.
 (10 sec.)	Deactivating optional RH RF switch	Kill the switch briefly by taking the batteries out of the sensor and putting them back in. The switch can unlink ventilation units for 10 minutes. Touch the control zone at the bottom right for at least 10 seconds. When all of the LEDs light up and flicker for the 2nd time, you must release the control zone. In case of several activated ventilation units, all activated units are deactivated. The LED of the switch lights up red four times in order to indicate that the units are unlinked.

DETAILED FUNCTIONING

Every 60 seconds the switch will measure the relative humidity (RH) in the room. When the RH has risen by 5% relative to the measurement done 2 minutes earlier, the switch will send a command to the ventilation unit to switch up to the level that corresponds to the ECO or COMFORT mode which is selected at that moment. If **within the next 5 minutes** there is once again an increase of at least 5%, **no** new command will be sent to the ventilation unit. If **after the next 5 minutes** there is an increase of at least 5%, however, a **new** reactivation command will be sent to the ventilation unit.

There is also another extra function that will work with both the ECO and the COMFORT mode. Provided that the conditions are satisfied, this function will ensure that the ventilation unit is switched to level 3.

The conditions are:

- The RH is higher than 70%
- The outdoor temperature (which the switch receives from the ventilation unit) is below 15°C, or if no outdoor temperature is received.

ERROR CODES + LED FEEDBACK

Error code	LED feedback
The requested communication is correctly communicated	Green
Service life of the battery has been reached	Orange
Problem with the communication	Red
Problem with the ventilation unit	Red - Red
Problem with the relative humidity measurement	Red - Red - Red
Switch not connected to a ventilation unit	Red - Red - Red - Red