Itho Daalderop CVE-S ECO



Installation & use



Original document.

Foreword

This manual is intended for the user and approved installer of the product and contains important information on installation, use, maintenance and malfunctions.

The installer is responsible for the installation and commissioning of the unit.

The following definitions are used in this manual to draw attention to dangers, instructions or directions relating to persons, product, installation and/or environment.

ä Warning!

Indicates a risk of personal injury to persons and/or serious damage to the product, installation or surroundings.

ä Attention:

Instruction relevant to the installation, operation, operation or maintenance of the product. Ignoring this instruction may cause minor bodily injury to persons and/or serious material damage to the product, installation or environment.

Note

Instruction relevant to the installation, operation, operation or maintenance of the product. Ignoring this instruction may cause minor material damage to the product, installation or environment.

Тір

Indications that may be relevant to the installation, operation, operation or maintenance of the product, not related to injury to persons or damage to property.

Тір

Don't forget to register the product via the website of Itho Daalderop!

Although this manual has been compiled with the utmost care, no rights can be derived from it.

Itho Daalderop reserves the right to change products and manuals without prior notice.

Due to our continuous process of improving our products, this document may differ from the product delivered to you. You can download the latest version of this manual from our website.

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1. Safety and regulations

1.1. Security

- Work on the ventilation system may only be carried out by approved installers () in accordance with the instructions in the manual. Only accessories and parts as prescribed by the manufacturer may be used.
- Do not use the product for purposes other than those for which it is intended, as described in this manual.
- Handle electrical appliances with care:
 - Never touch the device with wet hands.
 - Never touch the device when you are barefoot.

- This product and/or system may be operated by children aged 8 years and over and by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they are supervised or instructed in its safe use and are aware of the dangers of the product and/or system.
- Cleaning and maintenance by the user must not be carried out by children or by persons with reduced physical, sensory or mental capabilities or a lack of experience and knowledge without supervision.
- Prevent children from playing with the product and/or system.
- Do not use the product in the presence of flammable or volatile substances such as alcohol, insecticides, petrol, etc.

- Safety instructions must be followed to prevent physical injury and/or damage to the product.
- Maintenance and cleaning may only be carried out after the appliance has been deenergized.
- The product contains rotating parts. Therefore, after disconnecting the product from the power supply, wait at least 10 seconds before opening or touching the product, as these parts will continue to rotate for some time.

- Secure the system against unintentional reactivation.
- Maintenance instructions must be followed to prevent damage and excessive wear and tear.
- The product must not be modified.
- The product is only suitable for a 230 V 50 Hz AC system.
- Make sure that the electrical system to which the product is to be connected meets the required conditions.

- Do not expose the product to weather conditions.
- Do not place any objects on the device.
- Regularly inspect the product for defects. In the event of defects, switch off the product and contact your installer or the Itho Daalderop service department immediately.
- Switch the product off when:
 - The product does not function properly.
 - You want to clean the outside of the product.

- Take care not to damage the electrical circuit.
- Do not use the appliance to vacuum water boilers, heating systems, etc.
- Make sure that the appliance drains into a drain that is suitable and laid for this purpose and that drains to the outside.
- Keep valves and grids free and clean.
- A qualified installer is an installer working for a central heating or mechanical installation company registered with the Chamber of Commerce and included in the SEI recognition register (Stichting Erkenning Installatiebedrijven) or who has a Sterkin recognition.

1.2. Standards and guidelines

ä Warning!

The specifications and settings of the appliance only comply with the standards and laws of the country in which the appliance is sold. Applications outside this country can lead to very dangerous situations!

The installer must ensure that the entire installation complies with the legal requirements, the regulations contained in this document and other applicable documentation from the manufacturer.

All legal requirements and regulations are subject to additions, amendments or legal requirements that came into force later apply at the time of installation.

After installation, there must no longer be any health, safety or environmental risks in accordance with the applicable CE directives. This also applies to other products included in the installation.

2. Product information

2.1. Product description

Living comfort and energy savings are becoming increasingly important in housing construction. Nowadays, homes are becoming increasingly better insulated. Unfortunately, good insulation often comes at the expense of the indoor climate. Without good ventilation, moisture, moulds and dust mites can escape and the air in the house can quickly feel 'stuffy' due to an increasing concentration of CO2 (carbon dioxide). Itho Daalderop develops equipment that regulates the indoor climate and takes into account the requirements for comfort and energy consumption in homes.

One of these devices is the Itho Daalderop ventilation unit CVE-S ECO.

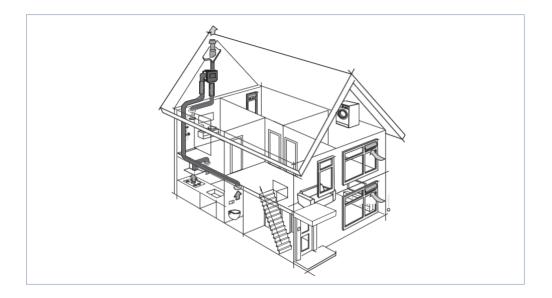
The CVE-S ECO ventilation unit is used in individually controllable ventilation systems based on decentralised, natural air supply in the facade and central, mechanical air extraction in the wet rooms.

The CVE-S ECO ventilates several rooms in the house. Through channels, the kitchen, bathroom, toilet and, if necessary, the storage/storage room can be accessed. laundry room connected to the unit for air extraction. A motorless extractor hood can be part of the system.

To ensure good air distribution, extraction valves are fitted to the openings of the ventilation ducts in the rooms to be ventilated. Air is extracted via these extraction points, while fresh air flows in from outside to inside via air supply openings (e.g. grilles) in the façades of living rooms and bedrooms.

The CVE-S ECO is now also equipped with a built-in humidity sensor as standard. Thanks to its smart control, this humidity sensor accurately measures the air humidity and automatically adjusts the ventilation accordingly. When the sensor detects an (abrupt) rise, the automatic control will speed up the ventilation unit to the maximum position. The RH sensor cannot be adjusted (without special Itho Daalderop tools).

In this way, the unit helps to reduce the humidity in your bathroom, refresh the toilet and eliminate cooking odours from the kitchen.



2.2. Versions EN

Article	Туре	Description
03-00398	CVE-S ECO SE	Ventilation unit standard, Int. Stainless steel sensor, euro plug
03-00400	CVE-S ECO SP	Ventilation unit standard, Int. Stainless steel sensor, Perilex plug
03-00402	CVE-S ECO HE	Ventilation unit high performance, geïnt. RH sensor, euro plug
03-00403	CVE-S ECO HP	Ventilation unit high performance, geïnt. Stainless steel sensor, Perilex plug
03-00404	CVE-S PAK	Everything in 1 vent. package, CVE S, geïnt. RV sensor and RFT-AUTO control
03-00405	CVE-S PAK SPI	Everything in 1 vent. package, CVE S, geïnt. RV Sensor and Spider Base

2.3. Accessories

Article	Туре	Description
03-00062	Spider Base	Climate thermostat
04-00045	RFT-CO2 230V	RFT-CO2 sensor with actuator - 230 V power supply
04-00046	RF-RV BAT	RFT-RV sensor with control - battery operated
04-00048	CO2 CONSTRUCTION	CO2 sensor for CVE installation
545-7550	RF-PIR BAT	RF-PIR presence sensor - battery-powered
536-0150	RFT CAR	Wireless control switch with two positions, one automatic position and a
		timer function.
580-0230	HRS-3I C	Wired 3-position flush-mounted switch
580-0245	HRS O C	Surface mounted box for wired 3-position switch HRS-3
540-7960	CVH 125	Mechanical non-return valve diameter Ø 125 mm
591-1030	FGD 128-50	Sound-absorbing flexible hose, Ø 128 mm, length 50 cm
591-1230	FGD 128-100	Sound-absorbing flexible hose, Ø 128 mm, length 100 cm

2.4. Technical Specifications

			CVE-S ECO			
Description	Symbol	Unit	SE	HE	SP	HP
DIMENSIONS AND WEIGHT						
Dimensions (HxWxD)		mm		350 x 355 x 294		
Weight	-	kg		3	,4	
CONNECTIONS						
Connections from home	—	mm		4x Ø	۶124 ⁽	
Connection to the outside	—	mm	1x Ø 124			
GENERAL						
IP classification		—		IP	31	
RF (integrated)	-	—	30 m free field, 868 MHz			
Supply voltage	-	—	~ 230V - 50Hz			
Power connection	_	_			5-core cable Peri pl	with
TECHNICAL PARAMETERS						
Maximum power consumption	P	W	50	62	50	62

2.5. Capacity

Type S	Capacity (^{m3/h})	Pressure (Pa)	Power (W)
Setting 1 minimum	25	5	1,6
Stand 1 standard	75	11	2,5
Setting 1 maximum	125	31	5,2
Position 2 standard (*)	150	44	7,3
Setting 3 minimum	175	60	10,2
Stand 3 standard	225	100	18,7
Setting 3 maximum	375	100	50
Туре Н	Capacity (^{m3/h})	Pressure (Pa)	Power (W)
Setting 1 minimum	25	5	1,6
Stand 1 standard	75	11	2,5
Setting 1 maximum	125	31	5,2
Position 2 standard (*)	175	60	10,2
Setting 3 minimum	175	60	10,2
Stand 3 standard	275	100	31,6
Setting 3 maximum	415	100	62

*) Position 2 is the automatic position when sensors (CO2, RH and/or PIR) are logged in. The capacity is automatically controlled between low and high.

2.6. Product card information

Itho Daalderop	CVE-S ECO			
Description	Symbol	Unit	S	Н
Specific energy consumption class	—	—		D
Specific energy consumption, under moderate climate conditions	SEC	kWh/(^{m2} .a)	-20	-20
Specific energy consumption, under warm climate conditions	SEC	kWh/(^{m2} .a)	-8	-8
Specific energy consumption, under cold climate conditions	SEC	kWh/(m2.a)	-41	-41
Type of ventilation unit	VE	—	Residential ventilation	
Type of drive	—	—	Variable	speed
Type of heat recovery system	HRS	—	None	
Thermal efficiency of heat recovery	ηt	%	Not applic	able
Maximum flow rate	qmax	m3/h	375	415
Electrical input power of the fan drive, at maximum flow rate	Pmax	W	50	62
Sound power level	LWA	dB	50	52
Reference flow rate	qref	m3/s	0,070	0,080
Reference pressure difference	ΔPref	Pa	5	0
Specific input power	SPI	W/(^{m3/h})	0,078	0,088
Ventilation control	-	-	Manual contro	I (no DCV)
Control factor	CTRL	_	0,	85

Itho Daalderop			CVE-S ECO	
Description	Symbol	Unit	S	Н
Percentage of external leakage for one-way ventilation units with air ducts	-	%	n	/a
Instructions for the installation of regulated suction/injection/injection systems. Extractor grilles in the façade for natural air inlet/outlet	_	—	Not applic	cable
Instructions for pre-assembly/disassembly	—	—	www.ithoda	aalderop.nl
Sensitivity of airflow to pressure fluctuations at + 20 Pa and - 20 Pa	—	—	Not applic	cable
Airtightness between inside and outside	—	—	Not applic	cable
Annual electricity consumption	AEC	kWh	0,70	0,79
Annual heating savings, under temperate climate conditions	AHS	kWh	22	22
Annual heating savings, under warm climate conditions	AHS	kWh	10	10
Heating saved annually, under cold conditions climate conditions	AHS	kWh	43	43

2.7. Improve energy label

Improve the energy label of the ventilation system by applying one or more sensors or additional components. Take a look at our website and determine the new energy label with the help of our toolbox package labels.

2.8. Recycle

Durable materials have been used in the manufacture of this product. This product must be disposed of responsibly at the end of its life. The government can provide you with information about this.

The packaging of the product is recyclable. These materials must be disposed of responsibly and in accordance with government regulations.



In order to comply with the obligation to separate the treatment of batteries and electrical household appliances

the product bears the symbol of a crossed-out dustbin. This means that at the end of its service life, the product must not be disposed of with ordinary household waste. The product must be taken to a special centre for selective collection in the municipality or to a point of sale that provides this service.

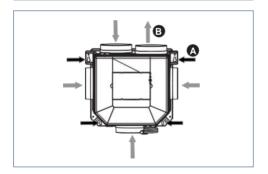
Separate treatment of batteries and household appliances avoids possible negative effects on the environment and health caused by inappropriate treatment. It ensures that the materials making up the appliance can be recovered in order to achieve significant savings in energy and raw materials.

3. Installation

3.1. Installing the ventilation unit

ä Warning!

When the unit is used in a stacked construction, a mechanical non-return damper must be fitted in the discharge duct to prevent backflow from the central duct.



Attach the ventilation unit, preferably in a closed room, with the appropriate screws and the mounting holes to a (sloping) wall or ceiling/floor with sufficient load-bearing capacity (> 200 kg/m2). (A)

The ventilation unit is equipped with five air outlets: one outlet for the extraction of air to the outside and four outlets for the extraction of exhaust air from the house. (B)

- a) Connect the outlet spigot (1, diameter 124 mm) to the exhaust duct / roof outlet to the outside.
- b) Connect the suction nozzles (1-4, diameter 124 mm) to the ducts leading to the rooms to be evacuated.
- c) Close unused spouts on the unit with the blue caps provided.

3.2. Connecting electrically

The ventilation unit can be connected electrically in various ways:

- With a Euro plug.
- With a Perilex plug.

ä Warning!

Never connect the appliance with an extension cord!

3.2.1. Connection with Euro plug

The SE and HE versions of the unit are equipped with a Euro plug. These versions cannot be connected to the wired three-position switch.

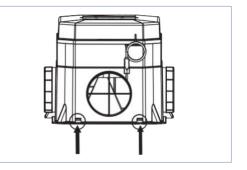
Operation takes place with a wireless remote control.

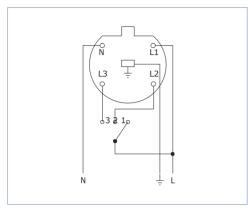
- a) Connect the unit to a wall outlet with the Euro plug.
- b) If necessary, clamp the power cord into the terminals on the underside of the unit.

3.2.2. Connecting with Perilex plug

If the unit is equipped with a Perilex plug:

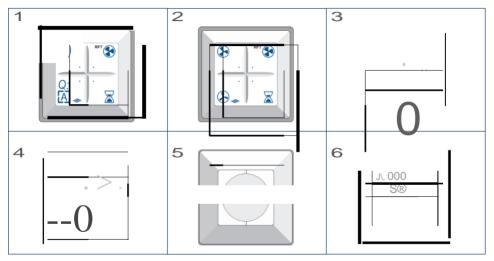
- Connect the unit to a Perilex wall outlet (possibly in combination with a wired 3-position switch) according to the following diagrams and table.
- b) If necessary, clamp the power cord into the terminals on the underside of the unit.





	Kleur	Stand	Functie	Connection
W	green / yellow		earth	mains power
Ν	blue		zero	mains power
L1	brown	low	solid state	mains supply / switch
L2	grey	middle / car	link	switch / unit
L3	black	high	link	switch / unit

4. Operation



Various positions are pre-programmed in the ventilation unit. A number of control switches are available for active tuning to the correct stand/ventilation capacity:

- 1. Wireless control switch with two positions, an automatic position and a timer function.
- 2. Wireless control switch with three positions and timer function.
- 3. Wireless _{CO2 sensor} with integrated control.
- 4. Wireless stainless steel sensor with integrated control.
- 5. Wireless PIR sensor.
- 6. Wired 3-position switch for installation.
- 7. Spider Base, climate thermostat with three modes, an automatic mode and a timer function.
- 8. A combination of the above possibilities.

To log on or off a wireless control switch or sensor at the unit, see section Logging on and Off RF Controls on page 25.

You can register up to 20 wireless products (controls and/or sensors).

The ventilation unit can be set to one of the following positions as required:

- Position 1, low position: when one person is present during the day or night or when nobody is present.
- Position 2, middle position: for day or night when more than one person is present. or Auto mode, automatic mode; control based on existing sensors (_{CO2}, RH and/or PIR). The capacity is automatically controlled between low and high position.
- Stand 3, high level: for when cooking, showering or bathing or when many people are present.

Note

By using an (integrated) sensor, position 2 (the middle position) on the three position control switch becomes the automatic position.

Timer

The duration of the timer is determined as follows:

- Press timer button once: 10 minutes high.
- Press timer button twice: 20 minutes high.
- Press timer button 3 times: 30 minutes high.

After the timer has elapsed, the unit will return to the last mode selected before the timer was switched on, unless this is the high mode. In this case, the unit switches to low or automatic mode, whichever is selected last.

Note

The timer function can be interrupted at any time by pressing the low, high or automatic mode button.

Auto-night stand. The Auto-Night setting ensures that the minimum ventilation setting is increased so that sufficient ventilation is also provided at night. You can use the Auto-Night setting when you go to bed in the evening. Make sure that the window grilles are open when using this mode.

To switch on the Auto-Night position, press the Autobutton *twice* on the wireless control switch or controllable sensor. The Auto-Night setting cannot be set using the wired three-position switch.

ä Attention:

The **Acceleration** mode does not switch off automatically after a certain period of time. In the morning you have to switch on Auto mode (or another mode) yourself.

Note

If several controls are used, it may happen that the ventilation position on the wired control switch does not correspond to the current ventilation position because the ventilation unit has been set to a different position with a different control or sensor.

Note

The current ventilation position can always be read on the (optional) external _{CO2 sensor} or RH sensor.

4.1. Subscribe and unsubscribe RF controls

4.1.1. Sign in wireless controls

Indicate a wireless control switch in the vicinity of the ventilation unit.

- a) Disconnect the power supply, wait 15 seconds and revive the ventilation unit.
- b) Press two diagonally placed buttons of the control switch simultaneously within 2 minutes.

The control switch is now logged on to the ventilation unit.

For information on registering and deregistering optional controls, please refer to the documentation supplied with those controls.

4.1.2. Logout RF controls

Sign off a wireless control switch in the vicinity of the ventilation unit.

- a) Disconnect the power supply, wait 15 seconds and revive the ventilation unit.
- b) Press the four buttons of the control switch simultaneously within two minutes.

The ventilation unit no longer reacts to the control switch(s). Logging out of one control switch automatically logs off *all* controls, controllers and sensors.

4.1.3. Sign on and off wireless sensors

For information on optional sensors see the information supplied with those sensors.

4.2. Subscribe and unsubscribe Spider Base

For information on how to register and unsubscribe the Spider Base climate thermostat, please refer to the documentation supplied with this product.

5. Commissioning

ä Attention:

Increasing the maximum speed causes more noise and higher energy consumption.

ä Attention:

If the power fails during the commissioning phase, wait at least 2 minutes after the power has been restored! All ventilation units in the immediate vicinity will also be in log-on mode for the first 2 minutes!

Each remote control must be logged in separately. Up to 20 RF devices can be registered and put into operation. Prior to commissioning:

- The ventilation unit must be mounted.
- The ductwork must be mounted.
- The window and/or facade gratings must be fully open.

- External and internal doors must be closed.
- There must be sufficient flow-through space under the inner doors.
- The adjustable valves must be fully open in *all* rooms.

Go through the following steps to get the ventilation unit up and running correctly:

- a) Make sure that the ventilation unit has been de-energized for 15 seconds.
- b) Insert the plug of the ventilation unit into the wall socket.
- c) Sign on the RF remote control(s) for the ventilation unit by pressing 2 buttons diagonally across from each other. The ventilation unit will briefly vary in speed to confirm registration.

If only a wired 3-position switch is installed, you can skip steps a to c.

 Now switch on the ventilation unit and regulate the ventilation capacity of each valve according to the legal requirements. If the adjustment of the valves does not produce the desired air flow, you can increase the maximum speed of the ventilation unit by further opening the potmeter of the maximum speed (see section Setting the capacity).

Note

After power-up, the ventilation unit is in log-on mode for 2 minutes. However, during this time, the ventilation unit responds to all log-in requests within its range, so that it is possible that another RF controller or RF sensor may be logged on to your ventilation unit undesirably. As a result, your ventilation unit responds not only to your own RF control or RF sensor, but also to that of an adjacent home.

ä Attention

If an RF control or RF sensor of an adjoining house has been logged into your ventilation system undesirably, you can solve this by logging out an already logged in control and logging in again. By logging off one control, all controls and sensors are logged off, including those of the adjoining house.

5.1. Adjusting capacity

ä Attention:

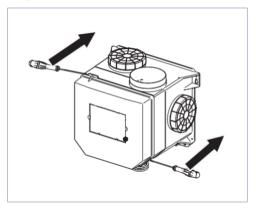
The capacities (high and low position) of the ventilation unit must be adjusted during commissioning!

Tip

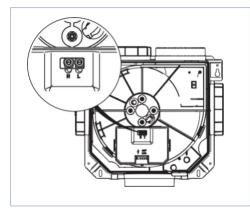
If the capacity has to be increased, first try to open the air valves further to achieve the required capacity. Increasing the motor speed will result in higher energy consumption and noise levels.

On the base board there are two potmeters for adjusting the minimum and maximum capacity or low and high level. Whether these capacities have to be adjusted are reflected in the system design calculations or flow measurements.

 Remove the lid by using a flat screwdriver to unlock the clamping cams at the top and bottom. After this you can remove the lid.



 b) With the help of both potmeters the capacity in high (H) and low (L) can be adjusted.



5.1.1. Setting Highlight-CVE-S ECO

If necessary, adjust the height with the left potentiometer (H).

Highlight	Default setting	Setting ra	ange
		Min.	Max.
CVE-S ECO S	225 ^{m3/h}	175 ^{m3/h}	375 ^{m3/h}
CVE-S ECO H	275 ^{m3/h}	175 ^{m3/h}	415 ^{m3/h}

5.1.2. Adjusting low setting CVE-S ECO

If necessary, adjust the low setting with the right potentiometer (L).

Lowest position	Default setting	Setting ra	ange
		Min.	Max.
CVE-S ECO S	75 ^{m3/h}	25 ^{m3/h}	125 ^{m3/h}
CVE-S ECO H	75 ^{m3/h}	25 ^{m3/h}	125 ^{m3/h}

6. Inspection & Maintenance

6.1. Inspection

Correct functioning of the ventilation system, efficiency and service life can only be guaranteed if the system is inspected and maintained in accordance with the regulations below. These regulations are based on normal operating conditions.

ä Attention:

When the ventilation system is operating under severe operating conditions or in an extra polluted environment, additional maintenance may be necessary.

6.1.1. Ventilation unit inspection

The ventilation unit must remain accessible for maintenance at all times. The ventilation unit requires little maintenance. Periodically clean the plastic exterior of the unit with a slightly damp cloth.

- Regularly inspect the unit for abnormal noises.
- b) Regularly check that the unit responds to the hand controls.
- c) Check regularly that the unit responds to the RH sensor.
- d) Check regularly that the unit responds to the connected sensors.
- e) Inspect the fan annually.
- f) Contact an installer if the appliance produces abnormal noises, no longer responds or if cleaning is necessary during inspection. The cleaning of the impeller may only be carried out by an installer.

6.1.2. Fan inspection

ä Attention:

Replacement of parts or cleaning of the impeller may only be carried out by a qualified fitter!

Go through the following steps when inspecting the fan:

- a) Disconnect the ventilation unit from the power supply.
- b) Remove one of the spout sealing plugs so that the impeller becomes visible.
- c) Visually check the impeller for contamination. The impeller becomes dirty over time and should be cleaned once every 4 to 5 years in normal use. A slight degree of soiling does not affect the operation.
- d) Depending on the outcome of the inspection, the fan must be cleaned.
- e) Mount the caps to seal the spouts.
- f) Bring the ventilation unit back under tension.

If the appliance makes abnormal noises, the fan is swaying or is seriously dirty, it must be replaced or cleaned.

6.1.3. Inspection RF control

Regularly check that the RF control is still working by switching the ventilation unit to another position. Contact a qualified installer if the unit no longer reacts.

6.1.4. Inspection of valves and gratings

Check the valves and grids regularly (approximately once every 2 months) for contamination. In case of soiling, clean the valves and/or grids. The valves and gratings can be cleaned by the user in accordance with the instructions under Maintenance.

6.2. Maintenance

To ensure correct operation, efficiency and service life, the appliance must be maintained in accordance with the following paragraphs.

ä Attention:

When the ventilation system is operating under severe operating conditions or in an extra polluted environment, additional maintenance may be necessary.

6.2.1. Ventilation unit maintenance

The ventilation unit requires little maintenance. Periodically clean the plastic outside of the unit with a slightly damp cloth.

The installer must carry out an inspection every 4 years. On the basis of this inspection, it may be necessary to clean the impeller. The internal impeller may only be cleaned by a certified installer.

6.2.2. Maintenance RF control

The wireless control switch is powered by a battery. Under normal use, the battery has an expected service life of about 7 years. When the battery is empty, the control switch no longer functions and the ventilation unit no longer responds to manual operation. The battery (type CR2032 3V) must then be replaced. Incorrect placement of the battery can cause damage to the product. The batterises must not be exposed to excessive heat such as direct sunlight, fire, etc. The batteries must not be exposed to excessive heat, such as direct sunlight, fire, etc. It is not necessary to register the control switch again.

6.2.3. Inspection/Cleaning valves

Check the valves regularly (approximately once every 3 months) for contamination. If soiled, clean the valves.

ä Attention

Pay attention to protruding duct sections when removing or replacing valves and gratings. These can be very sharp!

ä Attention:

When cleaning, do not adjust the setting of the valves and put the valves back in the duct of origin.

Clean the valves as follows.

In case of slight soiling, wipe the valves with a slightly damp cloth. If necessary, use a solution of a mild detergent such as washing-up liquid or all-purpose cleaner. In case of strong adhesion of dirt, remove the valves completely from the canal.

- a) Remove the foam sealing tape.
- b) Completely immerse the valves in a solution of a mild detergent (e.g. dish soap or all-purpose cleaner). If necessary, the valves can be cleaned in the dishwasher.
- c) Remove the valves with a cloth or soft brush.
- d) Dry the valves. Place the foam sealing tape back on the valve.
- e) Place each valve back into the duct of origin.

6.2.4. Inspecting/cleaning channels

It is advisable to check the channels in the house once every 4 years. The ducts should be cleaned once every 8 years.

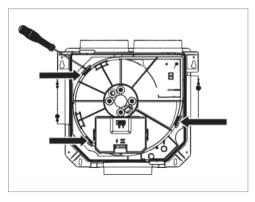
ä Warning!

Disconnect the unit, or remove the motor plate, when cleaning the ducts so that the unit does not get dirty inside (RV sensor)!

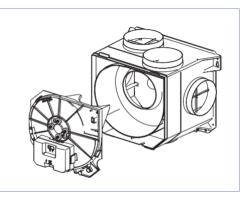
6.2.5. Cleaning of the impeller

If inspection reveals that the blades are seriously soiled, the impeller must be cleaned by the installer:

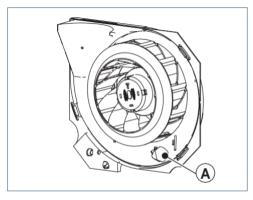
- a) Disconnect the ventilation unit from the power supply.
- b) Dismantle the lid as mentioned in Setting high and low.
- c) Loosen the motor plate by unlocking the clamping lugs in the three slots on the plate using a flat-blade screwdriver.



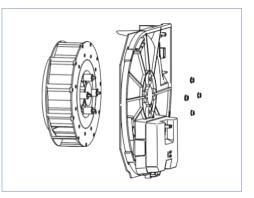
d) Remove the motor plate, complete with motor and impeller and circuit board housing.



e) Clean the impeller with a soft brush. Make sure that any balancing clips remain on the impeller.

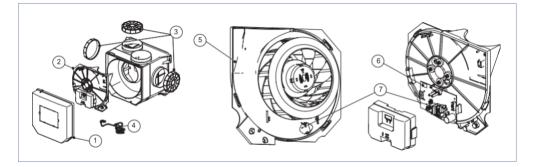


- f) In case of severe soiling, it is advisable to clean the RH sensor and the housing around it (A) also with a soft brush. To do this, remove the circuit board from the housing.
- g) If necessary, the impeller can be loosened from the motor plate by loosening the four nuts.



7. Service parts

Please check our website for the latest information on the service components.



No	Article	Туре	Description
1	05-00490	CVE-S LID WHITE	CVE-S ECO Front lid
2	05-00494	CVE-S SERVICE MODULE S	Service module CVE-S ECO S
2	05-00495	CVE-S SERVICE MODULE H	Service module CVE-S ECO H
3	05-00489	CVE-S CAP BLACK	Plastic cap black
4	545-5118	UK 1500 E	Power cable + Euro plug
4	545-5117	UK 1500 P	Power cable + Perilex plug
5	545-5206	M/W CVE ECO con	Engine/impeller CVE ECO connector
6	05-00492	CVE-S PCB S	Print CVE-S ECO S
6	05-00493	CVE-S PCB H	Print CVE-S ECO H
7	05-00500	RV SENSOR	Stainless steel sensor
	545-4680	DEMPERS 4X	Vibration dampers 4 pieces
	05-00491	CVE-S ENCLOSURE PLASTIC SET	Complete enclosure CVE-SE ECO

8. Malfunctions

ä Attention:

Malfunctions may only be remedied by a qualified fitter!

The fan is no longer running		
Cause	Solution	
a) The plug of the ventilation unit is not plugged into a wall socket.	Plug the plug into a wall socket.	
b) There is no voltage at the socket outlet.	 Restore the voltage at the wall socket. 	
	 Use a different wall socket. 	
 c) The fan is running on/stable due to extreme contamination. 	 Clean the fan impeller. Please visit on the balancing clamps. 	
(d) The fan is defective.	Replace the entire motor module.	
e) The printout of the ventilation unit is defective.	Replace the PCB and feed the Commissioning procedure again.	

The fan always runs at the same speed and does not react to the remote controls		
Cause	Solution	
a) The battery of a paired RF control, sensor is empty.	Replace the battery.	
(b) The distance between the fan and the RF control is too great or the signal encounters too many obstacles.	 Move the RF control if the wireless signal is affected by the presence of many steel/obstacles. 	
c) The printout of the ventilation unit is defective.	Replace the PCB and feed the Commissioning procedure again.	

The fan makes noise		
Cause	Solution	
a) The fan is running on/stable due to extreme contamination.	Clean the fan impeller. Pay attention to the balancing clamps.	
(b) The fan is defective.	Replace the entire motor module.	
(c) The fan is not (or no longer) balanced.	Replace the entire motor module.	

The remote control does not work (anymore)		
Cause	Solution	
a) The battery of a paired RF control, sensor is empty.	Replace the battery.	
 (b) The distance between the fan and the RF control is too great or the signal encounters too many obstacles. c) The control is not (or no longer) logged on to the fan. 	 Move the RF control if the wireless signal is affected by the presence of many steel/obstacles. Start the IBS procedure (again) and log on the RF control. 	
	 Move the RF control if the wireless signal is affected by the presence of many steels/obstacles. 	
(d) RF control is defective.	 Replace the RF control and report it on again. 	
(e) The brand names of the RF control and the ventilation unit do not match.	Replace the RF control with one of the same brand as the ventilation unit.	
	Replace the PCB of the motor module with a PCB with the correct OEM code.	
f) The printout of the ventilation unit is defective.	Replace the PCB and feed the Commissioning procedure again.	

The ventilation unit does not respond to the 3-position switch		
Cause	Solution	
a) The plug of the ventilation unit is not plugged into a wall socket.	Plug the plug into a wall socket.	
b) There is no voltage at the socket outlet.	 Restore the voltage at the wall socket. 	
	 Use a different wall socket. 	
c) The switching wires of the 3-position switch are Mounted incorrectly.	 Connect the switching wires to the correct way (see connection diagram). 	
d) The printout of the ventilation unit is defective.	Replace the PCB and feed the	
	Commissioning procedure again.	

The fan suddenly turns much faster or softer (for no apparent reason).		
Cause	Solution	
 a) After using the timer function, the ventilation unit switches back to the last selected position before the timer function is activated. timer function has been enabled. 	This is not a malfunction.	
(b) The RF control of an adjacent dwelling has been logged on to <i>this</i> fan.	 Disconnect the ventilation unit from the power supply for 15 seconds. Log off an already logged on RF control (and sensors) and log it off. (and sensors) on again. 	

The	The fan suddenly turns much faster Cause		
		Solution	
a)	An increase in humidity has been detected by the RH sensor, which automatically switches the ventilation unit to a higher position.	This is not a malfunction.	
b)	An increase in $_{CO2}$ concentration has been detected by the $_{CO2 \text{ sensor}}$, which automatically switches the ventilation unit to a higher position.	This is not a malfunction.	
C)	Movement has been detected by the PIR sensor which automatically switches the ventilation unit to a higher position.	This is not a malfunction.	
d)	The RF control of an adjoining house is logged on to <i>this</i> fan.	 Disconnect the ventilation unit from the power supply for 15 seconds. Log off an already logged on RF control (and sensors) and log it (and sensors) again. 	

The ventilation unit does not respond (anymore) to the RF sensors (PIR sensor, CO2 sensor 230V, RV sensor).		
Cause Solution		
a) The system is not in Auto mode.	If desired, set the system to position 2/ AUTO.	
b) In the case of an RF-CO2 sensor 230V: the sensor has no voltage.	Restore tension.	
 c) In case of a PIR sensor: the battery of the sensor is empty. 	Replace the battery.	
(d) The RF sensor is not logged on (anymore) to the ventilation unit.	Restart the commissioning procedure and report the RF sensor.	
(e) The distance between the ventilation unit and the RF sensor is too great or the signal encounters too many obstacles.	 Please try to register again. If this does not work, move the RF sensor to a place with fewer obstacles. experienced. 	
(f) The brand names of the RF sensor and the ventilation system. unit do not match.	 Replace the RF sensor with an RF sensor from The same brand as the ventilation unit. 	
(g) RF sensor defective.	 Replace the RF sensor and report it again on. 	
(h) The RV sensor on the circuit board is defective.	Replace the sensor.	
(i) The printout of the ventilation unit is defective.	Replace the PCB and feed the Commissioning procedure again.	

Turr	Turning the fan does not correspond to the position of the bedieningsschakelaar Oorzaak		
		Solution	
a)	An increase in humidity has been detected by the RH sensor, which automatically switches the ventilation unit to a higher position.	This is not a malfunction.	
b)	An increase in _{CO2} concentration has been detected by the _{CO2} sensor, which automatically switches the ventilation unit to a higher position.	This is not a malfunction.	
	Movement has been detected by the PIR sensor which automatically switches the ventilation unit to a higher position.	This is not a malfunction.	
()	The ventilation unit has been switched to another position by means of a wireless control.	This is not a malfunction.	
e)	A wireless control or sensor of an adjoining	Disconnect the ventilation unit from the	
	house is logged on to <i>this</i> fan.	power supply for 15 seconds. Log on the wireless controller(s) and sensor(s) again.	

9. Warranty

All Itho Daalderop products come with a standard twoyear manufacturer's warranty. Within this period, the product or parts thereof will be repaired or replaced free of charge.

Provisions and exclusions are included in our guarantee conditions.

See the product page on our website for full warranty terms and/or additional warranty terms or conditions.

If there are any problems with the operation of our product, we advise the consumer to first consult the manual. If the problems persist, contact the installer who installed the product or the Itho Daalderop service department. The contact details can be found at the end of the manual or on our website www.ithodaalderop.nl.

10. Statements

EC Declaration of Conformity | EC Declaration of Conformity

Itho Daalderop Group BV PO Box 7 4000 AA Tiel Netherlands

Declare that the product | Declares that the product

- Ventilation unit CVE-S ECO HE
- Ventilation unit CVE-S ECO SE
- Ventilation unit CVE-S ECO HP
- Ventilation unit CVE-S ECO SP

Complies with the provisions laid down in the directives |Répond aux exigences des directives |. Entspricht den Anforderungen in den Richtlinien | Complies with the requirements stated in the directives :

- Low Voltage Directive 2014/35/EU
- Electromagnetic Compatibility Directive (EMC) 2014/30/EU
- Directive establishing a framework for the setting of ecodesign requirements for energyrelated products 2009/125/EC
- Directive on the indication by labelling and standard product information of the consumption of energy and other resources by energy-related products 2010/30/EU

- Commission Regulation (EU) No 1253/2014 of 7 July 2014 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for ventilation units
- Commission delegated regulation (EU) No 1254/2014 of 11 July 2014 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of residential ventilation units

Complies with the harmonised European standards | Replies to the harmonised European standards | Complies with the harmonised European standard :

- AND 60335-1:2012 | AND 60335-2-80:2003/A1:2004 AND 60335-2-80:2003/A2:2009
- AND 60730-1:2012

- AND 55014-1:2007 | AND 55014-1:2007/C1:2009 AND 55014-1:2007/A1:2009 | AND 55014-1:2007/A2:2010 AND 55014-2:1998 | AND 55014-2:1998/C1:1998 AND 55014-2:1998/A1:2002 | AND 55014-2:1998/IS1:2007 AND 55014-2:1998/A2:2008
- AND 61000-3-2:2006/A1:2009 | AND 61000-3-2:2006/ A2:2009
 AND 61000-3-3:2013 | AND 61000-6-1:2007
 AND 61000-6-3:2007/A1:2011 | AND 61000-6-3:2007/ A1:2011/AC:2012

CE

Tiel, 1 July 2017.

Coen Schut, Innovation Manager Ventilation

Netherlands

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Consult your installer if you have any questions. If you do not know the installer, please visit www.ithodaalderop.nl/dealerlocator.