

**CVE-S ECO, smart
mechanical ventilation**





Smart mechanical ventilation

Good ventilation in your home is essential. It provides comfort and healthy indoor air. An average family produces around 4000 litres of moisture in their home in one year. litres of moisture. With a good ventilation system, the moisture is removed and you will suffer less from moulds, among other things. This is also very energy-efficient, because a well-ventilated home costs less energy to heat. A well-ventilated home also suffers less from unwelcome housemates, such as house mites and periwinkles. That's fine.

Proven and reliable for years

When it comes to ventilation, the central ventilation unit CVE-S ECO is not unknown. This robust unit can now be found in more than 1.5 million Dutch households. Many homes are too well insulated to allow windows to be opened for ventilation. Moreover, setting up a window is not very energy-efficient. Mechanical ventilation is the solution in such a case.

CVE-S ECO with integrated humidity sensor As standard, the CVE-S ECO is supplied with an integrated humidity sensor. The humidity sensor in the unit automatically measures the humidity in your home and uses this to determine the amount of ventilation (in the car position). Very handy when showering that the valve comes on automatically and you don't have to worry about it anymore. This makes the ventilation unit smarter again.

Applicable in any situation

Older ventilation systems often make a lot of noise and no longer work optimally. The virtually silent CVE-S ECO is no less than 83% more economical than a valve-lator with alternating current and that saves €60,- a year! Quiet and easy to operate via the RFT car transmitter. In auto mode, the CVE-S ECO automatically reacts to various sensors, such as, for example, the inte- tion sensors.

RH sensor in the ventilation unit. The built-in timer function is also very useful for temporary ventilation learning at a higher setting (10, 20 or 30 min.).

Saving energy: good for you and the environment

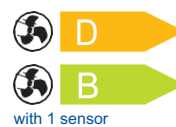
The Itho Daalderop ventilation unit CVE-S ECO delivers energy savings of up to 283 kWh on an annual basis. This saving is comparable to the average annual consumption of a refrigerator with freezer compartment. So you also make an important contribution to the environment. After all, the ventilation unit reduces CO_2 emissions by more than 127 kg per year. At the production of electricity produces CO_2 , which is harmful to our environment. The less electricity is consumed, the less power stations have to produce and the less CO_2 is emitted. Another reason to choose the CVE-S ECO.

Even smarter ventilation

The CVE-S ECO can make you work even smarter with the application of wireless sensors, such as an RFT CO2 sensor, RFT RV sensor or motion detector. In this way, you can easily upgrade your ventilation system and benefit from even more comfort and savings.

Our product range

Central ventilation unit



CVE-S ECO



All-in-one ventilation package, CVE-S ECO and RFT white



All-in-one ventilation package, CVE-S ECO and Spider Base



CVE-S ECO



CVE-S ECO Optima



CVD-S ECO pipe roof fan

- Most commonly used ventilation box in the Netherlands
- Consumes up to 83% less energy than AC fans
- Applicable in any situation
- Proven, reliable and quiet
- Integrated stainless steel sensor

Operation CVE-S ECO

The CVE-S ECO ventilation unit mechanically drains into the wet areas; the kitchen, the toilet and the bathroom.

Natural fresh air enters the house through window grilles. The CVE-S ECO can be used in both new buildings and renovations. Within the renovation the CVE-S ECO can be used.

to replace existing ventilation units or to improve homes with natural ventilation. The OptimaFlow package is often used in new construction, of which the CVE-S ECO is the basis of the package. OptimaFlow is a demand-driven ventilation solution based on CO_2 measurements.

The CVE-S ECO ventilates several rooms in the house. By means of ducts, the kitchen, bathroom, toilet and possibly the indoor storage/laundry room are connected to the unit for the extraction of air. A motorless extractor hood with controllable valve can also be part of the system.

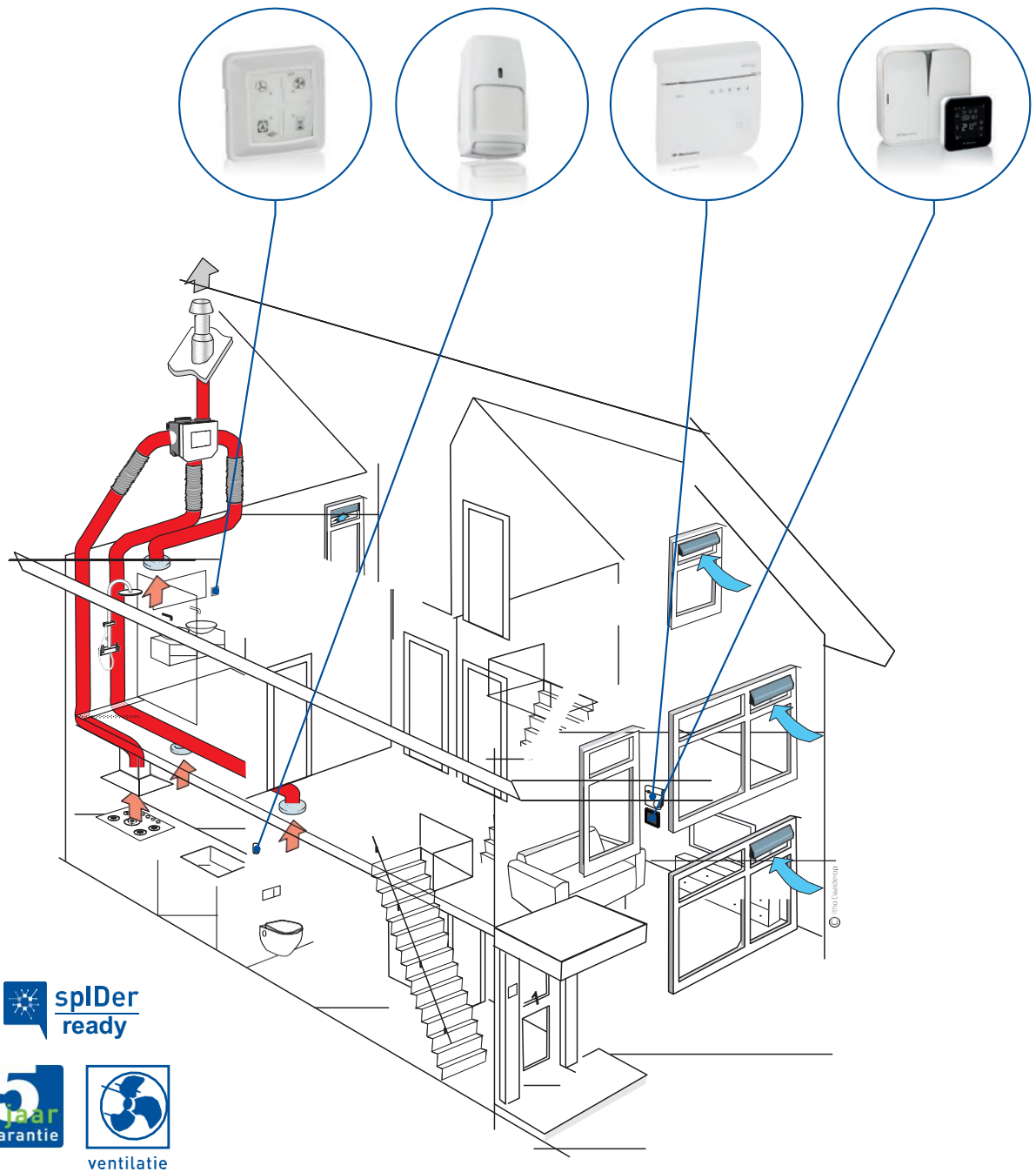
To ensure good air distribution, extraction valves are fitted to the openings of the ventilation ducts in the rooms to be ventilated. Air is extracted via these extraction points, while through window grilles in the facades of living rooms and bedrooms fresh air flows in from the outside.

Innovative technology

Itho Daalderop applied a number of innovative techniques in the development of the CVE-S ECO.

The CVE-S ECO is standard equipped with an integrated moisture sensor. This humidity sensor measures extremely accurately, so that there is sufficient ventilation when you are showering, for example. This makes ventilation smarter again. A single PCB has been developed for both the control and the control electronics. This results in an overseeable construction with fewer components and thus improved operational reliability. Add to this the fact that a DC motor 'does not have to work as hard' as an AC motor and you understand that the CVE-S ECO therefore guarantees a long service life.

The range of the CVE-S ECO is also an important innovation. The use of cone-shaped backward-curved blades leads to more efficient propulsion of the air, less pollution of the impeller and thus a better guarantee of capacity and energy efficiency. At the same time, the noise level is further reduced. Moreover, this construction requires considerably less maintenance. And that, too, translates into extra cost savings. Partly for this reason, the CVE-S ECO has been the most proven and sold ventilation unit in the Netherlands for years.



CVD-S ECO

Do you have too little space in the house for a ventilation unit? Then the CVD-S ECO pipe roof fan is an option. This unit offers the same advantages and special features as the CVE-S ECO mechanical ventilation unit.

So the pipe roof fan is also extremely energy-efficient, quiet, comfortable, cost-saving and adjustable from the kitchen and bathroom. The only difference is that the CVD-S ECO is placed on the roof of the house - and that makes it even quieter.

Even smarter ventilation



RFT car control



Spider climate thermostat



RFT CO₂ sensor



PIR motion sensor



FT RV sensor

Operation

The CVE-S ECO can be expanded with various RFT controls and RF sensors. The unit is equipped with an integrated humidity sensor as standard. The CVE-S ECO can easily be operated with the RFT Auto transmitter.

Spider climate thermostat

Itho Daalderop's smart climate thermostat is also suitable for controlling ventilation. Take a look at www.ithodaalderop.nl for more information on this smart climate thermostat.

Sensors

In addition to the RFT control, RF sensors can also be connected to the ventilation unit, such as a CO₂ sensor or a PIR motion sensor. A CO₂ sensor in the living room ensures that there are enough is ventilated when, for example, there is a party. The PIR motion sensor in the toilet briefly ventilates when it is needed. The integrated humidity sensor does its job when showering in the bathroom. Actually, learning how to ventilate has never been so easy.



Convenient, all-in-one ventilation package

This package contains everything you need to update your current ventilation system 1 on 1 to an energy efficient and comfortable ventilation system today.

OptimaFlow, the **very best price/performance** in one box

Smart, demand-driven ventilation systems provide optimum control, so that the resident has to take close action. This is why the CVE-S ECO is now also available as OptimaFlow in two very competitively priced CO₂-controlled ventilation packages. That's easy.

OptimaFlow

The OptimaFlow package contains the energy-efficient CVE-S ECO with integrated humidity sensor. This is the basis and will be extended with an updated RFT-CO₂ sensor with integrated control which is placed in the living room and measures the CO₂ concentration. By means of RF communication, this signal transmitted to the ventilation unit. The more people are in the living room, the more CO₂ is exhaled and the more care is taken. The ventilation unit has a capacity of 468 m³/h. The CVE-S ECO CO₂ package Optima

has the best price/PC ratio in the market and is therefore perfectly applicable in new buildings.

Optima Inside

There is also an OptimaFlow variant with a built-in humidity and CO₂ sensor that measures the air in the ventilation box: the CVE CO₂ package Optima Inside. The convenience of all the sensors has been put into one ventilation unit here. The unit has a capacity of 468 m³/h. The Optima Inside package is easy to install, has the best price/performance ratio.

Convenient, all packages come standard with 2 connection cords

All packages are equipped with two connection cords (1 fitted and 1 supplied loose) so that the unit can be connected in any situation.



Technical data



Type	Article code	Electrical connection	Operation	Capacity (100 Pa)
CVE-S ECO SE	03-00398	euro plug	RFT Auto transmitter, not included as standard	375 m3/h
CVE-S ECO SP	03-00400	Perilex plug	RFT Auto transmitter, not included as standard	375 m3/h
CVE-S ECO HE	03-00402	euro plug	RFT Auto transmitter, not included as standard	468 m3/h
CVE-S ECO HP	03-00403	Perilex plug	RFT Auto transmitter, not included as standard	468 m3/h
CVE-S All-in-one vent package	03-00404	Perilex* and euro plug	RFT Auto transmitter, standard included in package	375 m3/h
CVE-S Optima	03-00419	Perilex and euro plug*	Operation on supplied CO2 sensor	468 m3/h
CVE-S Optima Inside	03-00421	Perilex* and euro plug	RFT Auto transmitter, not included in standard package	468 m3/h
CVD-S ECO	03-00406	5-core power cable	RFT Auto transmitter, not included as standard	436 m3/h

* fitted as standard, the other power cable is supplied loose.

Optima is a C.4a system according to NEN 8088.
For the CVE_{CO2-Optima} package, two equivalence statements are available for soil-bound (GG) and non-soil-bound (NGG).

Optima Inside is a C.2a system according to NEN 8088.



ventilatie

Saving CVE-S ECO	Alternating current ventilation unit (CVE 166)	Direct current CVE ECO (S version)
Ventilation pattern/per day		
Low position (08:00 - 16:00)	8 hours	8 hours
Self-employed (rest of the day)	14 hours	14 hours
Highlight (cooking and showering)	2 hours	2 hours
Power consumption		
Consumption low mode kW	0,0210 kW	0,0025 kW
Consumption middle position kW	0,0450 kW	0,0075 kW
High power consumption kW	0,0710 kW	0,0192 kW
Electricity consumption per year		
Lowest position	61 kWh	7 kWh
Self-employed persons	230 kWh	38 kWh
Highlight	52 kWh	14 kWh
Total	343 kWh	60 kWh

Savings in kWh: 283 kWh (=83%)

Single rate meter (incl. energy tax)* € 0,21

Total energy costs CVE: € 73,- € 13,-

Savings based on top-standing ventilation pattern/etimes € 60,-

(this corresponds to 127 Kg CO₂ savings per year)

A comfortable, healthy and energy-efficient indoor climate

Who does not want a comfortable, healthy and energy-efficient indoor climate? Itho Daalderop has everything for the optimal indoor climate: a pleasant temperature, sufficient hot water, fresh air and a smart climate thermostat. Together, the products reinforce each other into advanced climate systems.

Sustainable heating, the heart of your comfort

Our Boiler Base Cube is one of the most sustainable in the Netherlands, as it is easy to expand with, for example, the air/water heat pump (Cool) Cube or HP-S, smart thermostat and shower heat recovery. This allows you to combine money and energy savings with comfort and you can easily upgrade your home in one go or in steps.

The energy label on heating can then reach A+ and on hot water even A+++!

If you are building a new home, choose our ground source heat pump which heats and cools your home entirely on the basis of ground energy.

No more waiting for hot water

Tired of waiting for hot water in your kitchen? Then consider a Close-in boiler in or under your kitchen cabinet. This way you your boiler and you can save on water and energy. Do you want even more comfort? Then opt for a boiling water boiler with a special boiling water tap.

Good ventilation means healthy air and energy savings

Ventilation is an essential part of the indoor climate and is often forgotten or underestimated.

This while it is an important prerequisite for a comfortable, healthy and energy-efficient indoor climate. Humid rooms are not only unhealthy, but they also require even more energy to heat them. An Itho Daalderop CVE-S ECO with DC motor and integrated humidity sensor will soon yield savings of € 60,- per year on your electricity costs.

With the smart Spider an optimal indoor climate is regulated in this way.

With the Spider climate thermostat you can remotely control your ventilation, heating, domestic hot water and electric water like a spider in the web devices. Wherever and whenever you want. Also outside the door, with the special app on your smartphone or tablet. You have insight into your consumption at any time, so you know exactly how much you consume and how much it costs. So you never lose control. Because you are always in control of what is comfortable. We take care of the rest.

Saving more health and energy in the home through good ventilation



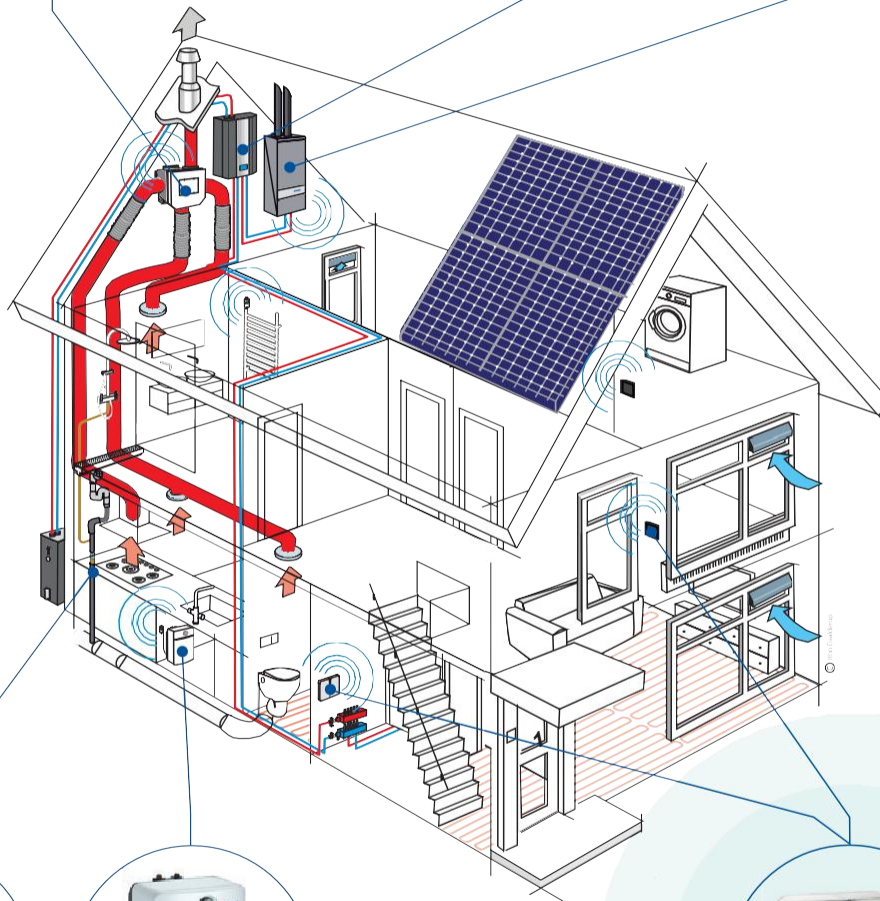
Control and adjustment of ventilation by addition of sensors



HP-S: split-unit heat pump, both all-electric and hybrid.



Base Cube: the most durable boiler of the Netherlands



Recover 50% of the heat with shower heat recovery



Instant hot or boiling water in your kitchen with the Close-in boiler or Close-in More



A comfortable home, that's how you arrange it! With Spider, the smart climate thermostat

Our challenge: a comfortable, healthy and energy-efficient indoor climate

Itho Daalderop strives to make people living, working and working more enjoyable - with a range that includes heating, domestic hot water, ventilation and control technology solutions. With these innovative products and systems, we ensure a comfortable, healthy and energy-efficient indoor climate. We make energy-neutral living - according to the climate requirements of tomorrow - today already possible. The apparent contradiction between a comfortable, healthy and energy-efficient indoor climate fascinates us. The combination is our challenge. Climate for life.

Points of sale

Itho Daalderop has a nationwide network of points of sale. They are specialists in the field of Itho Daalderop products and have many years of experience with our range and services, can provide you with good advice on your wishes and living situation, and install and maintain our products for you. Please visit www.ithodaalderop.nl for a sales or service point near you.

Register your product and receive a 5-year warranty.



verwarming



tapwater



ventilation control technology



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Website



Points of sale



Warranty terms and conditions