



HEAT PUMPS

# Enjoy freedom with CTC!

Energy-efficient solutions for  
the perfect indoor climate







# A safe investment!

When you invest in a heat pump from CTC, you can be assured that you are installing one of the most reliable and long-lasting heat pumps on the market. Development and manufacture take place in our factory in Småland, where quality mindedness and innovation go hand in hand.

CTC – Swedish quality since 1923.

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## Our product categories:



### Ground source heat pumps

With a ground source heat pump from CTC, you can save up to 85% on your heating costs. A ground source heat pump utilises solar energy stored in rock. The energy that is utilised is free, environmentally friendly and helps reduce the emissions of CO<sub>2</sub>.



### Lake and geothermal heat pumps

To access this energy resource, a liquid-filled collector hose measuring 200-500 metres is laid in the ground or in a lake. The circulating liquid in the hose is heated by the stored solar energy. The liquid passes through the heat pump where a compressor raises the temperature by means of a refrigerant and a heat exchanger in a closed system.



### Air-to-water heat pumps

With an air-to-water heat pump from CTC, you save up to 75 % on your heating costs. An air-to-water heat pump converts energy in the air into heat and hot water. And because it does not require boreholes or coils in the ground, it is easy to install. The energy that is utilised is free, environmentally friendly and helps reduce the emissions of CO<sub>2</sub>.



### Ventilation solutions

Fresh air indoors is important for our health. The ventilation in your home has the task of venting away impurities and moisture in the house and adding fresh air. It is also important to minimise annoying noise in your home. CTC offers a completely new concept for homes with exhaust air heating.



### Indoor modules

All indoor modules from CTC are equipped with a unique control system which is used to calculate the heating requirements of your home. The control system makes sure that the heat pump works efficiently and that the right amount of heat and hot water is produced. Access to the control system is by means of a user-friendly touchscreen, just like the one on your smartphone.



### Domestic hot water heaters

At CTC we have developed our own method for ensuring that our products have the longest possible life span. We use only stainless, acid-resistant, titanium-alloyed molybdenum steel, which is a sustainable and durable material. This superior material, in combination with a unique manufacturing process, reduces the risk of corrosion,



**Only at CTC – freedom  
of choice with EnergyFlex**





At CTC we have always believed in flexible systems. That is why you always get EnergyFlex free with every purchase from us. This means you always have the freedom to connect easily to other heat sources, pools and tanks, cost-effectively and within a single system.

#### Ready for anything

The system is based on an eco-friendly, economical and flexible heating system comprising one CTC heat pump. If you then connect to our all-in-one CTC EcoZenith i550 Pro tank, you will be ready for anything.

#### Start now – add on later

Start with one heat pump. Then you can easily connect and supplement your heating system with virtually anything in terms of heating: solar heating, additional tanks, water-jacketed stoves, as

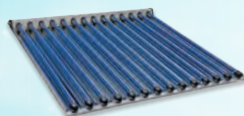
well as boilers running on wood, electricity, pellets and even gas.

#### Freedom that doesn't cost extra

Best of all is that this flexibility doesn't cost any extra. It's included as standard for all of our heat pumps. No hassle or cumbersome system solutions. Instead, all you need to do is connect, control and start enjoying.



**Connect to and supplement your heating system with virtually anything in terms of heating**



Solar panels



Heating from CTC makes owning a pool simpler and cheaper.



Pellet boilers, e.g. CTC EcoFlex.



Water-jacketed stove



Plenty of wood? Then CTC's modern CTC V40 wood boiler is the perfect choice.



Indoor module, e.g. CTC EcoZenith i550 Pro



# Ground source heat pump with more than 300 litres of hot water





# CTC GSi 12-16

## Speed-controlled heat pumps for ground source, lake or geothermal heating

CTC GSi adapts automatically to the building's output requirements throughout the year. When high output is required, the output increases. When less output is required, the compressor shifts to lower output. This means you will always achieve maximum savings (up to 85 %).

### Lots of hot water and easy to dimension

The CTC GSi is equipped with a highly efficient DHW heater, which, according to tests at RISE, produces over 300 litres of hot water. When it comes to determining the size of the heat pump, it is now much simpler thanks to the inverter controlled compressors. The CTC GSi 12 is best suited for the normal villa with a 2.5 – 12 kw power range, and the CTC GSi 16 is ideal for a larger property with a 4 – 16 kw power range.

### Quiet and efficient

The CTC GSi has a 4.3-inch touchscreen with English text and clear symbols, which makes it easy to adjust the heating and DHW or to obtain operational information. The GSi has a seasonal coefficient of performance (SCOP) of 5.5, which means that, over the course of year, it produces 5 times as much energy as it consumes. The compressor and cooling components are enclosed in a separate sound-insulated unit, which makes it very quiet, only 36 DB (A) at 50 rps. Furthermore, the heat pump has very efficient insulation, which minimises energy losses. The CTC GSi is so energy efficient that it easily meets the requirements for an A+++ rating – the highest and best energy rating a heat pump can be given.

### EnergyFlex

The EnergyFlex installation kit accessory allows you to easily add solar heating, or set up your water-jacketed stove or boiler so that they too can contribute heat. Or why not connect a pool so you can also enjoy the warmth in summer?

### Equipped with A-rated low-energy circulation pumps

In order to achieve the lowest possible energy consumption and best savings, the CTC GSi is equipped with A-rated low-energy circulation pumps on both the brine and heating sides. Ground, lakes and bedrock are used as heat sources. The brine system can be connected to the right, left or rear. To make installation simple, the heat pump is modular, which allows it to easily be divided into two separate units.



\* Energy efficiency class in heating system (scale A+++ to G)

\*\* Cold climate floor heating





**Our ground source heat pumps have a high level of efficiency**





# CTC GS 6-8

Affordable heat pumps for ground source, lake or geothermal heating.

The CTC GS is an ultra-efficient heat pump with built-in DHW heating and a quiet scroll compressor. The CTC GS is available in two sizes: 6 or 8 kW. They are equipped with the latest technology and their DHW heating is in a class of its own. To achieve the lowest energy consumption, they are equipped with A-rated low-energy circulation pumps and very effective insulation.

## A premium pump at a low price

The new CTC GS heat pumps are among Sweden's most affordable, and will provide comfortable heating at the lowest possible cost for many years. The CTC GS is available in two sizes: 6 or 8 kW. Both are equipped with the latest technology and have a hot water capacity of 300 litres.

To achieve the lowest energy consumption, they are equipped with A-rated low-energy circulation pumps and very effective insulation. The automatic control unit has a 4.3-inch colour touchscreen with English text and clear symbols, which makes it easy to adjust the heating and hot water.

## High efficiency and low noise level

The CTC GS are ultra-efficient <sup>\*\*</sup>(5.0 SCOP) thanks to a newly-designed refrigerant circuit with an electronic expansion valve and efficient scroll compressor. In order to achieve the lowest noise level of 39 dB(A), the compressor and all other cooling components are enclosed in a separate, sound-insulated unit.

The CTC GS is simple and straightforward to install. In addition, both the supply cable and the primary flow sensor are factory-fitted. The supplied magnetite filter also ensures that your radiator system is kept clean and fresh.

## Ready for future challenges

The CTC GS is also ready to be equipped with smart ventilation control and home automation accessories. We call these accessories CTC SmartControl. One control unit verifies wireless signals for temperature, humidity and carbon dioxide levels, ensuring the optimisation of heating, water and ventilation.

With CTC Connect+, you can easily control your heat pump from your smartphone. The CTC GS is also Smartgrid-ready, which means you can easily connect the product to the Nordic Power Exchange and let the heat pump work the most when the electricity price is lowest.



\* Energy efficiency class in heating system (scale A+++ to G)

\*\* Cold/moderate climate – floor heating



# The silent ground source heat pump





# CTC EcoHeat 400

Heat pumps for ground source, lake or geothermal heating

The quiet, efficient ground source heat pump with touchscreen and EnergyFlex. The CTC EcoHeat 400 is available in 4 models from 6-12 KW.

## Save up to 80 %

The CTC EcoHeat 400 is reliable and quiet with a seasonal efficiency of \*\*4.3 SCOP. With the CTC EcoHeat 400 you can save up to 80 % on your current energy needs.

## More even heating gives greater comfort

For the CTC EcoHeat 400 we have chosen our own technology that gives much more even heating without fluctuations in the temperature. Radiators and floors are always an exact temperature. The CTC EcoHeat 400 is built with a water buffer, which creates substantially better operational conditions for the compressor. Which means you will not hear any clicks or noise in pipes, floors or radiators.

## Control and Set

The CTC EcoHeat 400 comes with a 4.3 inch colour touchscreen. But most important of all is that it has an English interface and clear symbols – you can easily adjust the heat and hot water, etc. or retrieve a variety of information about the operation.

## Freedom with EnergyFlex.

You can add other energy sources now or later.

Two connections are ready to link solar heating, a water-jacketed stove, or even a pool?

## Click or surf

With the CTC EcoHeat 400, you can also connect to the internet or a mobile network and control the system remotely with an accessory.

## Wireless sensors – no problem

Wireless sensors are available as remarkably smart accessories.

## Standard

In Sweden, installation in a new construction requires a control function that limits the power output. This is standard in the CTC EcoHeat 400.



\* Energy efficiency class in heating system (scale A+++ to G)

\*\* Cold/moderate climate – floor heating



**Peak power  
output, even in  
minimal area**





# CTC EcoPart 400

## Heat pumps for ground source, lake or geothermal heating

Compact heat pumps with a low height, which makes them perfect for confined spaces.

### Several sizes with many possibilities

An ultra-efficient, compact heat pump that meets the heating needs of houses or small industrial premises. The EcoPart 400 is available in six sizes: 6, 8, 10, 12, 14 and 17 kW. If the energy need is considerable, up to nine 400 CTC EcoPart 400 can be run together. The efficiency has nothing to do with the size. The CTC EcoPart 400 has a seasonal efficiency of over \*\*4.8 SCOP. With the CTC EcoPart 400, you save up to 80 % on your current energy needs.

### Quiet and simple

The CTC EcoPart 400 is quieter than ever due to the soundproofed cooling modules. It is small and neat and therefore easy to install and service.

### Freedom included

You can add other energy sources now or later. Connect to solar heating, a water jacketed stove or why not a pool?

### All-in-one solution

Our system solutions essentially provide you with unlimited possibilities to adapt the heating system to your needs and the needs of your property.

If there is a low ceiling and a normal heat pump is too tall, the CTC EcoPart 406-412 can be conveniently docked with the CTC EcoZenith i250 indoor module with a height of 1652 mm. If your hot water needs are considerable, you can select the CTC EcoZenith i350 indoor module, which is equipped with an ultra-efficient DHW heat exchanger. Or do you have 15 teenagers who love showering for long periods, or would you like to add a wood boiler, water-jacketed stove, solar panels or a pool? Then connect the CTC EcoPart 400 to the CTC EcoZenith i550 Pro. When dimensioning, keep in mind that the CTC EcoZenith i550 Pro is a round system tank which requires a little more space. For really big needs – or if you already have a system you want to add to – the CTC EcoLogic Pro control unit is also available. It links your current system for DHW and heating with up to 10 heat pumps.

CTC's indoor modules and control units can manage your entire heating system and can control DHW production according to your preferences and needs. With CTC Connect+, you can easily control your heat pump from your smartphone.

Supplement with cooling, multiple heating circuits, solar panels and



even a pool – with our indoor modules everything is built in right from the start. It couldn't be simpler or more flexible.

\* Energy efficiency class in heating system with indoor module (scale A+++ to G)

\*\* Cold climate – floor heating.



**Our best air-to-water heat pump just got even better**





# The CTC EcoAir 600M series

## A brand-new series of speed controlled air-to-water heat pumps

CTC EcoAir 600M is a new series of speed-controlled air-to-water heat pumps that adapt to the building's power requirements during the year.

When high output is required, the output increases. When less output is required, the compressor shifts to lower output. Thanks to this you will always achieve maximum savings (up to 75 %).



### The CTC Eco Air 600M has a new design and world-class performance

The CTC EcoAir 600M is a brand-new series of speed-controlled air-to-water heat pumps that automatically adapt to the power requirements of the building throughout the year. The design builds further on the proven EcoAir series, which is one of Sweden's bestselling air-to-water heat pumps. The result is a product with a very high seasonal efficiency and low sound levels of 51 DB (A) (the CTC EcoAir 614M during rated operation). \*\* The CTC EcoAir 600M is so efficient that it produces almost five times as much energy as it consumes. The series has a fresh new design that is suitable for the majority of environments. It also has on-demand automatic defrosting, which reduces the amount of defrosting needed. This provides more heat, more power and a longer service life.

### The CTC EcoAir 600M is available in three different sizes:

CTC EcoAir 610M	2.5-10 kW
CTC EcoAir 614M	2.5-14 kW
CTC EcoAir 622M	4.5-22 kW

### New speed-controlled compressor

\* Energy efficiency class in heating system with indoor modules (scale A+++ to G)

\*\* SCOP 4.9 moderate climate – floor heating.

The CTC EcoAir 600 has been fitted with a new speed-controlled compressor, which adapts efficiently to your needs and the needs of your property. This also enables it to be easily dimensioned. Regardless of the size of your property, you will always find an appropriate model.

### Eco-friendly and renewable

The CTC EcoAir 600M is optimised to make the best possible use of eco-friendly energy in the air. And because it does not require boreholes or coils in the ground, it is easy to install.

### Economical and reliable:

With an air-to-water heat pump from CTC, you can save up to 75 % on your heating costs. You save money right from day one and the heat pump increases the value of your house.

### Plenty of hot water and maximum comfort

The CTC EcoAir 600M fits perfectly with the CTC EcoZenith i350 indoor module. It is equipped with highly efficient DHW heating that produces over 300 litres of hot water.

Through the advanced and reliable control system with a unique colour touchscreen, the indoor climate can be automatically adjusted for maximum comfort.

### EnergyFlex

The Energyflex installation kit accessory allows you to easily add solar heating, or set up your water-jacketed stove or boiler so that they too can contribute heat. Or why not connect a pool so you can also enjoy the warmth in summer?





**The efficient indoor module  
with lots of hot water!**



# CTC EcoZenith i350

Ultra-efficient indoor module available in two heights with numerous options and built-in heat pump control.

The CTC EcoZenith i350 is equipped with the same ultra-efficient DHW technology as the CTC GSi 12 geothermal heat pump. When combined with the CTC EcoAir or CTC EcoPart, it can produce over 300 litres of hot water.

## A complete heat pump

CTC EcoZenith i350 is an ultra-efficient indoor module with built-in heat pump control. To achieve the perfect combination for a complete heat pump, install it together with the CTC EcoAir 600M air-to-water heat pump.

For those who prefer ground source, lake or geothermal heating, choose the CTC EcoPart 406-412

## All-inclusive

Most things are standard in the CTC EcoZenith i350.

The expansion tank, supply cable and primary flow sensor are factory-fitted, and the manometer and automatic air vent are included with the delivery.

## Minimal energy loss

Thanks to efficient insulation that provides minimal energy loss and the combination with a highly efficient adjustable speed air-to-water heat pump, we reach \*\* 4.9 SCOP.

## Low ceiling height? No problem!

Choose the indoor module that best fits your home - it is available in two heights: 1657 or 1905 mm.

The low model has pipe connections at the top while the taller model connects at the bottom.

## Control your home from your smartphone

With CTC Internet and CTC Connect+, you can easily control the heat pump from your smartphone. Download the app for free from the App Store or Google Play.

## Climate controlled

The built-in automatic shunt valve is climate controlled and takes



into account both internal and external temperatures. The CTC EcoZenith i350 is able to control two individual heating systems as standard.

## Easily connect to other energy sources

The EnergyFlex installation kit accessory allows you to easily add solar heating, or set up your water-jacketed stove or boiler so that they too can contribute heat. Or why not connect a pool so you can also enjoy the warmth in summer?

\* Energy efficiency class in heating system with heat pump (scale A+++ to G)

\*\* Moderate climate – floor heating.





# **The flexible indoor module with touchscreen**



# CTC EcoZenith i250

## Efficient indoor module in two heights

The indoor module must never be the weak link – then it won't matter how efficient your heat pump is. Our CTC EcoZenith i250 indoor module has everything you want – plus a little more.



### Flexible indoor module

How about intelligent heat pump control? A colour touchscreen? Solar connection? Just to mention a few examples.

### The Inside is the Strong Side

The most important function of the indoor module is to produce a lot of hot water as frugally and quickly as possible. CTC EcoZenith i250 will not let you and your family down. CTC EcoZenith i250 is always installed with the CTC EcoAir or CTC EcoPart heat pumps, and supplies hot water at a temperature of up to 65 °C. The tank accommodates a full 223 litres.

### Freedom Included

You can add other energy sources now or later. Two connections are ready to link solar heating, a water-jacketed stove, or even a pool!

### And Everything Else

- Add the CTC EcoComfort together with the CTC EcoPart and get free cooling in the summer.
- A control function that limits electrical output comes as standard.
- The housing cover (as shown in the picture) comes as standard, but is available as an accessory in several heights for a more elegant installation.
- Select the height that suits your home: 1,652 or 1,886 mm.



\* \* Energy efficiency class in heating system with heat pump (scale A+++ to G)





**Better economy with  
integrated exhaust air  
ventilation!**



# CTC EcoVent i350F

The CTC EcoVent i350F gives you a significantly quieter indoor climate and better heating economy.

A smart concept for buildings with exhaust air heating. The CTC EcoVent i350F is a complete indoor module with heat pump control and integrated ventilation, which, when used in combination with an air-to-water heat pump, makes your property significantly more energy efficient, smarter, and quieter.



## Quieter and better heating economy

With the compressor located outside the building, you get a considerably quieter indoor climate. Since we use outdoor air to heat both the building and DHW you achieve better heating economy. Smart, right?

For maximum energy saving, the CTC EcoVent i350F is installed together with one of Sweden's best-selling air-to-water heat pumps, the CTC EcoAir 406. The CTC EcoVent i350F ventilates the property, produces heat and DHW, and ensures that you always have the perfect indoor climate. Heat is distributed through the property via floor heating or radiators. Ventilation air in all wet zones is extracted by means of the built-in fan, and produces a weak vacuum which helps to vent air in other rooms via the different wet zones in the building.

## High seasonal efficiency and smart technology

The CTC EcoVent i350F is equipped with the latest technology and the same ultra-efficient DHW heating as the CTC GSi ground source heat pump, and produces over 300 litres of hot water. The product's control unit has a 4.3 inch colour touchscreen with English text and clear symbols. The product has convenient module dimensions, a low centre of mass, and is delivered in three parts for quick and simple installation. The ventilation ducts are optimised to suit most ventilation connections when replacing an exhaust air pump.

## Ready for future challenges

With CTC Connect+, you can easily control your heat pump via your smartphone. The CTC EcoVent i350F is also Smartgrid-ready, which means you can easily connect the product to the Nordic Power Exchange and let the heat pump work most when the electricity price is lowest.



\* Energy efficiency class in heating system with heat pump (scale A+++ to G)



**High seasonal efficiency  
all year round**

12

11



# CTC EcoPart Pro/Basic

## 3-stage building heat pump with built-in control.

The CTC EcoPart is geared towards the heating of larger buildings, such as apartment buildings, industrial premises and churches.

### Smart or simple control

Choose between a built-in Pro control or a simpler Basic control.

The CTC EcoPart Pro has the unique CTC EcoLogic Pro control system built in, which manages your entire heating system. It monitors and controls your heat pumps, DHW, solar panels, additional heating, buffer tanks, pool, free cooling and more.

You can remotely monitor your system via Modbus and SMS.

If you do not have the same control requirements, choose the CTC EcoPart Basic which can be controlled with a digital signal, so-called thermostatic control. Furthermore, it can be controlled by regulating the return temperature, a simple control that is ideal for accumulator charging, for example.

It couldn't be simpler or more flexible.

### Very low noise level

The output increases in three stages by means of separate cooling modules. This gives smoother operation and better adaptation to the building's various output requirements. Using separate cooling modules, the CTC EcoPart Pro/Basic is able to increase output in three stages. This gives smoother operation and better adaptation to the building's various output requirements. The result is fewer starts/stops and higher heating comfort compared with single-stage products. The separate cooling modules also have a very low noise level.

The CTC EcoPart Pro/Basic is available in three sizes: 25, 30 and 35 kw and can be connected in series up to 170 kW (one CTC EcoPart i435 Pro that controls four CTC EcoPart 435 Basics).

In order to achieve the lowest possible energy consumption and largest savings, the CTC EcoPart Pro/Basic is equipped with class A, low-energy circulation pumps on both the brine and heating sides.

### More hot water and hotter elements

Thanks to an advanced refrigerant circuit and highly efficient compressors, the CTC EcoPart Pro can produce 65 °C water. This means you can have more bathwater and warmer radiators. Ideal for properties with high primary flow temperatures.

The CTC EcoPart Pro is designed to be connected either to new or



existing systems. Ground, lakes and bedrock can be used as heat sources. The brine system can easily be connected to the right, left, top or rear.

The CTC EcoPart Pro – a safe and obvious choice.

\* Energy efficiency class in heating system with Pro or Basic (scale A+++ to G)

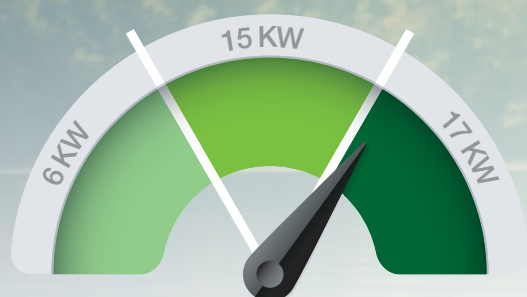




# CTC EcoAir 400 series

## Efficient air-to-water heat pumps

The CTC EcoAir 400 is easy to install, takes up little wall-space in your home, and does not require boreholes or coils in the ground. The CTC EcoAir 400 is available from 6–17 kW, so regardless of the consumption of the building, there is always a heat pump that is suitable.



### Air is free and full of energy

The CTC EcoAir 400 extracts energy from air as cold as  $-22^{\circ}\text{C}$  and supplies hot water up to  $65^{\circ}\text{C}$  for use as both DHW and heating. The CTC EcoAir 400 functions best with the CTC EcoZenith indoor module with built-in heat pump control. If you have a boiler that you would like to supplement with CTC EcoAir 400, you can use one of our control units to do so. The control unit can manage your entire heating system and can control hot water production according to your preferences and needs.

### More power, less noise, and better savings

The CTC EcoAir 400 is equipped with an efficient scroll-compressor, electronic expansion valve, and a fan with an extremely low noise level. The on-demand defrosting and a seasonal efficiency of over 3.9 SCOP guarantee a long service life and significant savings.

### Even heat

Our shunt valve technology in the CTC EcoZenith i250-/i550 Pro

indoor modules provides even heat. Since the temperature is constant, annoying expansion sounds that can produce irritating clicks in the floor and pipes are eliminated.

### Fresh, legionella-free hot water

In our indoor modules, the DHW is produced on-demand. This solution means that you always get new, fresh and legionella-free hot water.

### Also for homes with direct electricity systems

The CTC EcoAir 400 also works for houses with direct electricity. Add one or more fan convectors that use silent fans to spread heat through the house.

\* Energy efficiency class in heating system with indoor module (scale A+++ to G)

\*\* Moderate climate – floor heating.

The three larger heat pumps in CTC's EcoAir 400 series are ideal for large houses, rental and industrial properties. In addition, you can connect several heat pumps that provide up to 170 kW.

#### Power when it is needed most

The CTC EcoAir 400 provides a little more power when you really need it – when it is cold outside. The CTC EcoAir 400 is available for small houses to large properties.

The greatest challenge faced by heat pumps in apartment buildings is the capacity to quickly heat up a lot of DHW. It seems that we all want to shower at the same time. Even when it is really cold outside.

For example, the CTC EcoAir 415 produces up to 65 °C hot water in outdoor temperatures from –10 to +40 °C. And if the cold really hits hard with temperatures as low as –22 °C, the CTC EcoAir 415 will still supply 54 °C hot water.

With the intelligent, all-in-one CTC EcoZenith i550 Pro tank, you have unlimited possibilities to create a flexible heating system.

#### Efficient compressor

The CTC EcoAir 400 has been designed to operate with a low noise level and high seasonal efficiency. The heat pumps have an efficient and reliable compressor. Together with the fan design, this makes the CTC EcoAir 400 a reliable and quiet heat pump.

all-in-one tank for heating and hot water.

For greater needs – or if you already have a system you want to add to – the CTC EcoLogic Pro control is also available. It links your current DHW and heating system with up to 10 heat pumps.

The control for the CTC EcoZenith i550 Pro or CTC EcoLogic Pro can manage your entire heating system and can control hot water production according to your preferences and needs. You can monitor your system remotely via BMS/Internet, Connect+ and SMS. Supplement with cooling, several heating circuits, solar panels and a pool – everything comes built-in right from the start. It couldn't be simpler or more flexible.

#### An installation technician's dream

We have listened to our installation technicians and paid serious attention to their points of view and requests.

The CTC EcoAir 400 is therefore exceptionally easy to install. It takes up little ground space and has simple plumbing and wiring at a comfortable installation height with ample space.

#### System solutions for properties

Our system solutions mean that the possibilities to adapt the heating system to your needs and the needs of your property are virtually unlimited. For best comfort and economy, supplement the CTC EcoAir 400 with the CTC EcoZenith i550 Pro, the intelligent, **The CTC EcoAir 400 is easy to install. Because it utilises air, no boreholes or coils in the ground are required. Link several heat pumps together. It can be placed on the outside wall of a property wall and takes up little space**





**All-in-one tank with  
built-in intelligence**





# CTC EcoZenith i550 Pro

Water-jacketed stove? Pool? Solar energy?  
Or just teenagers?

Do you want the best for your home?  
Do you want a future-proof solution?  
All-inclusive? A solution that means  
you will never be without hot  
water? Then you should choose the  
CTC EcoZenith i550 Pro. The all-in-  
one tank with built-in intelligence.



## Several advantages of the CTC EcoZenith i550 Pro:

- i* Unbeatable hot water capacity. More than 600 litres of 40 °C hot water – enough for 15 showering teenagers. No additional costs for a control, extra solar tank or boiler.
- i* In Sweden, installation in a new construction requires a control function that limits the power output. Therefore, this function is standard on the CTC EcoZenith i550 Pro.
- i* Future-proof – connect and control now or in the future:
  - Heat pumps: ground source, air-to-water or both.
  - Firewood supplement: wood boiler or water-jacketed stove.
  - Solar panels.
  - Pool.
- i* Spacious – more than 500 litres – but unusually compact. Can be put into a space with a regular ceiling height. Fits through standard doors.
- i* With CTC Connect+, you are able to control the CTC EcoZenith i550 Pro easily from your smartphone. Download the app for free from the App Store or Google Play.
- i* No ordinary insulation (90 mm moulded polyurethane). Minimises heat loss, resulting in lower energy costs.
- i* Control of a heating circuit is about comfort, low energy consumption and safer operation. The built-in control:
  - Prioritises the most economical way of heating your house and the DHW.
  - Controls and monitors every part of your home.
  - Automatically senses how the heating circuit is put together and the heat sources that are connected.
- i* DHW that is completely safe from legionella. The DHW is never stationary, unlike in a standard water heater where the temperature must be sufficiently high to kill legionella bacteria.



\* Energy efficiency class in heating system with heat pump (scale A+++ to G)



# CTC SmartControl

– the solution for smart homes.

Heating, DHW and ventilation are optimised with the CTC SmartControl



Investing in a heat pump is one of the wisest decisions you will make. If you have an annual energy consumption of 30,000 kWh, there is a good chance that a heat pump will have paid for itself after just a couple of years.

## The CTC SmartControl ensures that heating, DHW and ventilation are optimised

The system is based on the CTC SmartControl Gateway, a base unit able to control up to seven optional wireless accessories.

The series consists of several smart accessories: a wireless room sensor powered by solar cells, and a multi-button able to control a number of different functions, such as additional hot water. If your home has thick floors and walls, you may need to amplify the signal. A repeater is available which amplifies signals between the various accessories.

Humidity and CO<sub>2</sub> sensors are also available which can control

ventilation as needed. The humidity sensor automatically increases ventilation in shower or laundry rooms when the air humidity increases. The CO<sub>2</sub> sensor ensures that ventilation is decreased when no one is home, and is able to increase ventilation when family or friends come to visit.

The CTC SmartControl ensures that ventilation is always optimised to provide consistently good air quality and that both ventilation and energy consumption are maintained at optimal levels.



CTC SmartControl – a series of smart wireless sensors which detect temperature, humidity and carbon dioxide.



**CTC SmartControl Gateway**

Base unit able to control up to seven optional smart accessories.



**CTC SmartControl Repeater**

Signal amplifier that amplifies signals between the various accessories whenever necessary.



**CTC SmartControl Room Sensor**

Solar-powered wireless room sensor with rechargeable battery.



**CTC SmartControl Room/Humidity Sensor**

Solar-powered wireless room sensor with rechargeable battery, which can control ventilation as needed.



**CTC SmartControl Room/Humidity/CO<sub>2</sub> sensor**

Sensor that controls ventilation whenever necessary, ensures optimal ventilation for consistently good air quality, and ensures that both ventilation and energy consumption are maintained at optimal levels.



**CTC SmartControl Multi-button**

Wireless 2-mode button that can control several different functions, such as additional hot water.



**Compatible heat pumps/control units:**

Product	Manufacturing number
CTC EcoVent i350F	from 7208-1727-1411
CTC EcoZenith i350 H	from 7208-1743-2561
CTC EcoZenith i350 L	from 7208-1743-2361
CTC GSi 12-16	from 7208-1743-1770
CTC GS 6-8	from 7310-1720-0792
CTC EcoZenith i250 H	from 7208-1744-2642 *
CTC EcoZenith i250 L	from 7208-1738-2082 *
CTC EcoHeat 400	from 7310-1740-1548 *

\* not for ventilation control







## CTC Economic

Efficient hot water production with minimal heat loss – models: 120, 200, 300.

CTC Economic is a series of hot water heaters with flexible installation solutions. The heaters are available in 3 sizes: 95, 160 and 230 litres.

By using Heat Injection technology, CTC Economic ensures efficient and fast heating of domestic hot water. Since CTC Economic produces hot water faster and more efficiently than standard heaters, you can therefore select a smaller heater when replacing your old one.

All pipes are concealed for a neat and tidy installation. Accessory kit available for concealed top connection. In order to satisfy the strict requirements in the Ecodesign Directive, the mixing valve is side-mounted to the heater, which minimises heat loss, and it is additionally insulated with neoprene insulation of the highest class.

CTC Economic hot water heaters are so well-enclosed that they are rated with Ingress Protection 44, which means they can be installed in 'damp rooms' such as laundry rooms and bathrooms. The water heaters can be installed in most DHW systems where the chlorine content of the water does not exceed 50 mg/l and the pH value is not lower than 7.5.

*\* (Ecodesign data scale A<sup>+</sup> to F).*

# Smart accessories

## CTC EcoLogic Pro/Family control units

Large, clear 4.3" colour touchscreen. English text. Logical, intuitive with simple symbols. Depending on the version, you can connect and control up to ten heat pumps and four heating circuits (four primary flow temperatures/heat curves).

Built-in power monitor, optional external additional heat, DHW prioritisation and built-in buzzer alarm. You can log operating data and update programs via USB. It can also be controlled via the internet or SMS (option) or connected to a remote computer (DUC).



## CTC Internet

With CTC Internet and the CTC Connect+ app, you can monitor and control your system directly via your mobile phone. For instance, you can adjust the temperature or be alerted if the system shuts down for any reason. CTC Connect+ can be downloaded for free from the App Store or Google Play.



## Housing cover and raised base

Extra-tall housing cover available in different heights and a height extender with the same design and colour as your CTC product. Can be combined for the majority of ceiling heights. The raised base is suitable for:

CTC GSi/GS/EcoHeat/EcoPart. The housing cover fits all of the above as well as the CTC EcoZenith i250/i350



## CTC CFA exhaust air unit

Replaces previous ventilation in houses with exhaust air ventilation. Suitable for CTC EcoHeat/EcoPart Pro and EcoZenith i250.



## CTC EcoVåf exhaust air unit with recovery.

Used in combination with ground source heat. Recovers the heat from the exhaust air and raises the temperature of the brine, which produces a higher COP. Suitable for CTC GSi/GS/EcoPart Pro/EcoZenith i250/i350 and EcoHeat.



## CTC EcoVent 20 exhaust air unit

Free cooling in the summer for a pleasant indoor temperature. Consists of a passive cooling unit that utilises the cool temperature of the borehole.



## Cooling CTC EcoComfort

Replaces previous ventilation in houses with exhaust air ventilation. Suitable for CTC GSi/GS and EcoZenith i350.





With over 100 years of experience, we are actively working to achieve a sustainable and fossil-free society. All of our heat pumps are developed and manufactured in the Småland region of Sweden. We have roots going back to 1923, when we began to heat Swedish homes. We are best known for our green boilers, which have supplied heating to millions of households all over Europe. We were the first company to offer heating boilers with built-in DHW heating and we were the first to introduce air-to-water heat pumps.

It is therefore no exaggeration to say that we have developed the industry. In short – CTC is one of Europe's leading manufacturers of heating products. We are located in the Småland region of Sweden and, together with Bentone, Turboflame and Osby Parca, are a part of Enertech AB, which sells products throughout the entire world.

With us you can be assured of peace of mind, quality and warmth!

[www.ctc-heating.com](http://www.ctc-heating.com)



**HEAT PUMPS**

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