



MADE IN SWEDEN



HEAT PUMPS

# Heating with a difference.

For you and for everyone.

An eco-friendly  
and secure  
investment!









# Made in Sweden since 1923

When investing in a heat pump from CTC, you can rest assured, knowing that you are installing one of the most reliable and long-lasting heat pumps on the market. All the development and manufacture takes place in our factory in Sweden, where consideration for quality and innovation go hand in hand.

CTC – Swedish quality since 1923.





# We are an environmentally-minded company working towards a fossil-free future

Our heat pumps utilise solar energy stored in bedrock, water and air. Solar energy is free, eco-friendly and contributes to lower greenhouse gas emissions. With 100 years of experience, we provide innovative and smart solutions for a sustainable and fossil-free society for future generations.

# A secure investment

With CTC, you can relax, knowing that you are installing one of the most reliable heat pumps on the market, which also comes with generous warranties.

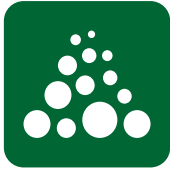
Our product categories:



## Ground source heat pumps

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

To access this energy resource, a liquid filled collector hose is placed in deep bore holes or placed horizontally in the ground or in a lake. The fluid circulating in the collector pipe is heated by the warmth of the sun stored in the ground. The fluid 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 heating and hot water. It is easy to install since it does not require boreholes or loops in the ground. The energy that is utilised is free, environmentally friendly and helps reduce CO<sub>2</sub> emissions.



## 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 ensures that the heat pump works efficiently and that the right amount of heat and hot water is produced. The control system is accessed via a user-friendly touchscreen.



## Water heaters

At CTC, we have developed our own method of ensuring the longest possible life span of our products. We only use high-quality stainless steel, which is a sustainable and durable material. By using superior materials in combination with a unique manufacturing process, the risk of corrosion is reduced.





**Expand your  
heating system  
whenever you  
want.**

Connect and supplement  
your heating system with  
virtually everything in terms  
of heating.

**ENERGY  
FLEX**



# Full freedom in the future thanks to EnergyFlex

EnergyFlex is a unique solution that comes as standard on all our heat pumps and indoor modules. EnergyFlex gives you the freedom to connect other heat sources easily and cost effectively, in one single system.



Solar



Pool



Stove



Gas, pellet and  
wood burners, etc.



Indoor module

# Ground source heat pumps

CTC manufactures two types of ground source heat pumps: Inverter controlled heat pumps and heat pumps with a start-and-stop function. CTC GSi 600 and CTC EcoPart 600M heat pumps have a inverter controlled compressor and automatically adapt to the building's output needs. When more heat or hot water is required, the output of the heat pump increases. When less output is required, the pump operates at a lower speed.

CTC EcoHeat 400, CTC GS 600 and CTC EcoPart 400 are conventional heat pumps that heat the building and hot water via a compressor with a stop-and-start function (on/off type). A conventional on/off heat pump is slightly less expensive but provides slightly lower savings than a inverter controlled heat pump.









# CTC GSi 600

Ground source heat pumps with inverter control.

CTC GSi 600 is one of Sweden's best heat pumps with a stylish design, integrated display and high-quality finish! In addition to being a very good heat pump, it will provide you with big savings and become a stylish part of your interior.

## Smart and user-friendly

CTC GSi 600 has an integrated touch screen with a user-friendly interface where you can easily access all functions and can both swipe and scroll, just like on your smartphone. In addition, you can easily mirror the display on your tablet, mobile, etc. The colour touch screen has clear symbols and the option to switch languages, making it easy to adjust the heating and hot water or retrieve a wealth of operating data. The integrated automation system is climate-controlled and takes into account both the indoor and outdoor temperature.

## Efficient and inverter controlled

Using inverter control, CTC GSi 600 automatically adapts to the property's power 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%).

## Efficient and quiet

The high seasonal coefficient of performance (SCOP) of CTC GSi 600 means that, over the course of the year, it produces five times as much energy as it consumes. The compressor and cooling components are enclosed in a separate soundproofed unit, which makes it extremely quiet, only 34 dB(A). Furthermore, the entire heat pump has very efficient insulation that minimises energy loss. CTC GSi 600 meets the requirements for an A+++ rating, which is the best possible energy rating a heat pump can have.

## Automatic borehole adaptation

CTC GSi 600 automatically adapts to the existing borehole. This means that when you replace your old heat pump, your installation costs will be significantly reduced. In addition, the product has been given a new flexible collector connection that makes it even easier to install.

## Plenty of hot water and easy to size

CTC GSi 600 is equipped with a highly efficient flow-through heater, which produces over 300 litres of DHW. CTC GSi 600 is available in three power ratings and is suitable for both small and large residences.

## EnergyFlex

With smart accessories, you can easily add solar heating, set up a water-jacketed stove or your existing water heater so that they too can contribute with heat. Or why not connect your pool so you can also enjoy the warmth during the summer?

## Smartgrid and ready for future challenges

CTC GSi 600 has internet connectivity as standard. You can control your product by using the myUplink app on your mobile phone. It is also equipped to connect to Alexa, Google Home and the future power grid (SmartGrid).









# CTC GS 600

Affordable heat pumps for ground source heating.

A stylish, smart and economical series of affordable heat pumps that heats the house and provides hot water using a quiet scroll compressor with start and stop function (on/off type).

## A premium pump at a reasonable price

CTC GS 600, like its big sister CTC GSi 600, has an attractive design, an integrated display and very high-quality finish! The design of your new heat pump will be a stylish part of your interior, wherever you choose to install it.

With the integrated touch screen, CTC GS 600 has a user-friendly interface, where you can easily access all functions and can both swipe and scroll, just like on your smartphone. In addition, you can easily mirror the display on your tablet, mobile, etc.

CTC GS 600 is one of Sweden's most affordable heat pumps that will provide comfortable heating at the lowest possible cost for many years to come. CTC GS 600 is equipped with a quiet on/off scroll compressor, which makes the product lower priced, but with slightly less savings.

Available in two sizes (6 and 8 kW) and has a hot water capacity of 300 litres. In order to achieve the lowest energy consumption, they are equipped with A-rated low-energy circulation pumps and very effective insulation.

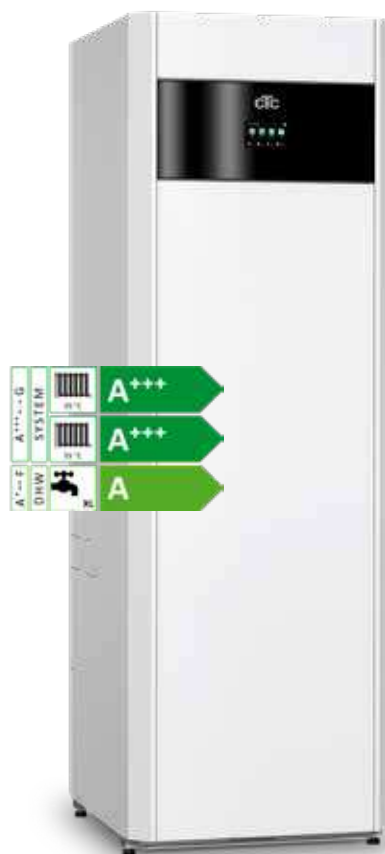
## High efficiency and low noise level

CTC GS 600 is ultra-efficient with a very low noise level, since both the compressor and all cooling components are enclosed in a separate, soundproofed unit.

As the supply cable and primary flow sensor are factory-fitted, CTC GS 600 is easy to install. The supplied magnetite filter also ensures that your radiator system is kept clean and fresh.

## Smartgrid and ready for future challenges

CTC GS 600 has internet connectivity as standard. You can control your product by using the myUplink app on your mobile phone. It is also equipped to connect to Alexa, Google Home and the future power grid (SmartGrid).



# CTC EcoHeat 400

Conventional heat pumps for ground source heating.

CTC EcoHeat are conventional heat pumps that heat the house and hot water via a scroll compressor with start/stop function (on/off type). CTC EcoHeat 400 is available in 4 models (6 to 12 kW) and is a reliable and quiet ground source heat pump that can save you up to 80% of your current energy needs.

## A more even heating provides higher comfort

For CTC EcoHeat 400, we have opted for proprietary technology that provides more even heating. CTC EcoHeat 400 is built with a water buffer that ensures good operating conditions for the compressor, irrespective of the heating system. This minimises the risk of noise problems in your radiator system.

## Control and set

CTC EcoHeat 400 comes with a 4.3 inch colour touchscreen. But most important of all is that it has text options and clear symbols – you can easily adjust the heating, hot water, and other functions, or retrieve a wealth of operating data.

## Freedom with EnergyFlex included

You can add other energy sources now or later. Two connections are provided for attaching, e.g. solar heating, a water-jacketed stove, or why not a pool.

## Wireless sensor

Wireless room sensors are available as remarkably smart accessories.

## Smartgrid and ready for future challenges

CTC EcoHeat 400 has internet connectivity as standard. You can control your product by using the myUplink app on your mobile phone. It is also equipped to connect to Alexa, Google Home and the future power grid (SmartGrid).





# CTC EcoPart i600M

Compact inverter controlled heat pumps for ground source heating.

A good-looking, smart and compact series of inverter controlled heat pumps with separate DHW production that adapts to your needs. Perfect for low ceiling height, only 1632 mm high.

## Perfect for replacements

CTC EcoPart i600M is a series of compact, inverter controlled ground source heat pumps without hot water tanks but with integrated control system. Since CTC EcoPart i600M does not have a hot water tank, it has a lower height than normal heat pumps. It is therefore perfect in areas with low ceiling heights or when replacing an existing older heat pump with separate DHW heating.

## Any amount of hot water

Install CTC EcoPart i600M together with one or more CTC hot water storage tanks, to adapt the hot water supply to the needs of your house. CTC AT 300/25 is specially designed to be used in combination with CTC EcoPart i600M.

## Quiet and efficient

CTC EcoPart i600M is available for the single family home as well as the slightly larger property, since the inverter controlled compressor automatically adapts to the house's energy demand. The heat pump ensures that you get the perfect indoor climate and low energy consumption throughout the year. CTC EcoPart i600M produces five times as much energy as it consumes over the course of year, thanks to a 5.5 seasonal coefficient of performance (SCOP).

## Borehole adaptation available in three sizes:

CTC EcoPart i600M, available in three sizes, will suit most properties: i608M with a power range of 2–8 kW, i612M at 2–12 kW and i616M at 4–16 kW.

As standard, the product can control an extra heat pump and two separate heating circuits, which would be sufficient for most installations. To meet extremely high demands, CTC EcoPart i600M can be converted to control up to nine heat pumps in four heating circuits.

## User-friendly and smart

CTC EcoPart i600M is equipped with a smart, integrated touch screen, which you can use to easily access all functions and can both swipe and scroll, just like on your smartphone. In addition, you can easily mirror the display on your tablet, mobile, etc. The colour touch screen has clear symbols and multiple language options, making it easy to adjust heating and hot water, or retrieve operating data. The integrated automation system is climate-controlled and takes into account both the indoor and outdoor temperature.

## Smartgrid and ready for future challenges

CTC EcoPart i600M has internet connectivity as standard. You can control your product by using the myUplink app on your mobile phone. It is also equipped to connect to Alexa, Google Home and the future power grid (SmartGrid).









# CTC EcoPart 400

Compact on/off heat pumps for ground source heating.

Compact heat pumps with a low height, which makes them perfect for confined spaces. Six ultra-efficient, compact heat pumps that meet the heating needs of houses or small industrial premises. CTC EcoPart 400 is available in six sizes: 6 to 17 kW.

## Ultra-efficient and smart

With CTC EcoPart 400, you save up to 80% of your current energy needs. If your energy needs are greater, you can connect up to ten CTC EcoPart 400 units together.

## Quiet and simple

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

## All-in-one solution

You can add other energy sources and connect solar heating, a water-jacketed stove or even a pool. Our solutions essentially provide you with unlimited possibilities for your and your property's needs.

## Small and powerful

If the ceiling height is too low for a normal heat pump, CTC EcoPart 400 can be docked to the CTC EcoZenith i255L indoor module. If your hot water needs are quite large, you can opt for the CTC EcoZenith i360L indoor module instead, which is equipped with an ultra-efficient DHW heat exchanger.

## Pool or high heating demands

If you want to connect another heat source or pool, CTC EcoPart 400 can be connected to CTC EcoZenith i555 Pro. Keep in mind that CTC EcoZenith i555 Pro is a round system tank that requires a little more space. If you have greater needs, or if you already have a system you wish to supplement, the CTC EcoLogic L/M controller enables you to connect up to ten heat pumps to your hot water and heating system.

The control unit in CTC EcoZenith and CTC EcoLogic can manage your entire heating system and can control hot water production according to your preferences and needs.

Supplement with cooling, multiple heating circuits, solar panels and a pool, etc – with our indoor modules everything is built in right from the start. It couldn't be simpler or more flexible.



# CTC EcoPart 600M

Compact inverter controlled heat pumps for ground source heating.

CTC EcoPart 600M is a series of compact inverter controlled heat pumps with the same performance as CTC GSi 600 but without a control system and hot water heating. CTC EcoPart 600M adapts automatically to the building's output requirements during the year. At high power demand the output increases and at lower power demand the compressor speed is reduced and the output decreases. Thanks to this you will always achieve maximum savings.

## Small but strong

CTC EcoPart 600M has a height of just 775 mm and is perfect for areas with low ceiling height. CTC EcoPart 600M is available in two sizes, 12 and 16 kW, and can also be connected in series to meet greater heating needs.

## Hot water and control

To obtain a complete system, CTC EcoPart 600M is supplemented with the CTC EcoZenith i360 or CTC EcoZenith i555 Pro indoor modules. CTC EcoZenith i555 Pro gives you almost unlimited possibilities to create a flexible heating system. Plus, CTC EcoZenith i555 Pro provides plenty of hot water. At a flow of 22 litres per minute, it has a capacity of more than 600 litres of 40°C hot water, which is enough for 15 showering teenagers.

For greater needs – or if you already have a system to complement – the CTC EcoLogic L controller connects your hot water and heating system with up to ten heat pumps. The control system in the CTC EcoZenith i555 Pro and CTC EcoLogic L manages your entire heating system and controls hot water production according to your wishes and needs.

## Automatic borehole adaptation

It is not a problem if you have an old heat pump that needs to be replaced, since this product automatically adapts to the existing borehole.









The background of the page is a photograph of a modern, light-colored house with large windows and a swimming pool in the foreground. A semi-transparent green overlay covers the right half of the image, providing a background for the text.

# Save up to 75% with an air-to-water heat pump

An air-to-water heat pump converts energy in the air into heating and hot water. It is easy to install since it does not require boreholes or loops in the ground. Thanks to EnergyFlex, it is easy to add other heat sources, such as solar thermal panels – or why not heat the pool and save money at the same time!

CTC has two types of air-to-water heat pumps. Inverter controlled heat pumps and heat pumps with a start-and-stop function. CTC EcoAir 600M is a series of heat pumps with a inverter controlled compressor, and the heat pumps automatically adapt to the building's output needs.

CTC EcoAir 400 is a series of conventional heat pumps which heat the building and hot water using a compressor with a stop-and-start function (on/off type).



# CTC EcoAir 400

## Conventional air-to-water heat pumps.

CTC EcoHeat 400 are conventional heat pumps which heat the building and provide hot water using a compressor with a stop-and-start function (on/off type). A conventional on/off heat pump is slightly lower priced but provides slightly lower savings than a inverter controlled heat pump.

### The air is free and full of energy

CTC EcoAir 400 extracts energy from air as cold as -22°C, and supplies hot water up to 65°C to be used for domestic hot water and heating. CTC EcoAir 400 is available in five models from 6 to 17 kW, so no matter the house's consumption, there is always a suitable heat pump.

### More power, less noise and better savings

CTC EcoAir 400 is equipped with an efficient on/off scroll compressor, electronic expansion valve, and a fan with extremely low noise level. The on-demand defrosting and the seasonal efficiency ensure a long life span and significant savings.

### More even heating all year round

CTC EcoAir 400 functions best with the CTC EcoZenith indoor modules with built-in heat pump control. If you have a water heater and would like to add CTC EcoAir 400, you can use one of our control units to do so. The controller manage your entire heating system and the hot water production according to your wishes and needs.

Our shunt technology in the CTC EcoZenith i255 and CTC EcoZenith i555 Pro indoor modules provides more even heat. Since the temperature is constant, annoying expansion sounds that can produce annoying noises in in your radiator system are eliminated.

### Fresh, legionella-free hot water

In our indoor modules, hot water is produced as it is being used. This solution means that you always get new, fresh and legionella-free hot water.

### Also for homes with direct electricity systems

CTC EcoAir 400 also works in homes with direct electricity systems. Add one or more fan convectors which, via extremely quiet fans, spread warmth around your home.







# CTC EcoAir 500M/600M

Inverter controlled air-to-water heat pumps.

CTC EcoAir 500M/600M is a series of inverter controlled air-to-water heat pumps that adapt to the building's power requirements during the year. At high power demand the output increases and at lower power demand the compressor speed is reduced and the output decreases. Thanks to this you will always achieve maximum savings (up to 75%).

## World class performance

The design of the CTC EcoAir 600M series builds further on the proven CTC EcoAir series, which is one of Sweden's best-selling air-to-water heat pumps. The result is a product with very high efficiency and very low noise levels.

\*\* CTC EcoAir 600M is so efficient that it provides five times as much energy as it consumes. The series has a stylish design and blends into most environments. It also has on-demand automatic defrosting, which reduces the amount of defrosting needed. This provides more heat, more power and a longer life span.

## CTC EcoAir 600M 3x400V is available in three sizes

CTC EcoAir 610M 2,5-10 kW

CTC EcoAir 614M 2,5-14 kW

CTC EcoAir 622M 4,5-22 kW

## CTC EcoAir 500M 1x230V is available in one size

CTC EcoAir 510M 2 to 10 kW

## Inverter controlled compressor

CTC EcoAir 500M/600M is equipped with a inverter controlled compressor that adapts to your needs. This also contributes to being easy to find the right fit and, regardless of the size of the property, there is always a suitable model.

## Eco-friendly and renewable

CTC EcoAir 500M/600M has been optimised to make the best possible use of the eco-friendly energy in the air. It is easy to install since it requires neither boreholes nor loops in the ground.

## Plenty of hot water and maximum comfort

CTC EcoAir 500M/600M fits perfectly with the CTC EcoZenith i360 indoor module. It is equipped with a highly efficient water heating system, which produces over 300 litres of hot water. With a unique colour touchscreen and an advanced and reliable control system, the indoor climate is automatically adjusted for maximum comfort.

## EnergyFlex

With the help of various accessories, you can easily add solar heating, a water-jacketed stove or your existing boiler. EnergyFlex comes as standard and gives you many options for the future in terms of smart and eco-friendly heating. Why not connect a pool and also enjoy the warmth in the summer?



\*\* SCOP 4.9 average climate underfloor heating.

# CTC CombiAir

The new hot heatpump that also can cool you down!

A series of speed-controlled air-to-water heat pumps that adapt to the building's power demand during the year. For the perfect indoor climate they produce both cooling and heating

## CTC CombiAir – a natural choice

CTC CombiAir is a new series of efficient speed-controlled air-to-water heat pumps, specially developed for the Nordic climate. CTC CombiAir is available in four sizes, from 6 kW to 16 kW. CTC CombiAir is very easy to install. The heat pumps use the outdoor air as the energy source, so no boreholes or coils are needed in the ground.

## Maximum savings

The speed-controlled compressor adapts to the house's power needs during the year. When more heat or hot water is required, the heat pump increases the power, and when less is needed, it goes down to lower speeds. Thanks to this, you always get maximum savings.

## A perfect indoor climate

The heat pump is intended to be connected to water-borne heating systems and can produce both hot water and cooling. When it is cold ( $-20^{\circ}\text{C}$ ), CTC CombiAir can deliver a flow temperature of as much as  $58^{\circ}\text{C}$ , which is sufficient for both heat and hot water.

During the hot days of the year, the well-developed cooling function delivers a very pleasant indoor climate. Long hot days outside are best finished off with something cool to drink and an even cooler evening inside.

## Quiet operation

CTC CombiAir has an automatic fan capacity control. CTC CombiAir also has a "quiet operation" mode that allows scheduling when it needs to work at a lower noise level.

## Intelligent control

Depending on your heating circuit, CTC CombiAir can be controlled in different ways. You can control the heat pump either via the CTC EcoZenith i360 indoor module or via the CTC EcoLogic L/M control modules.

CTC EcoLogic is used primarily if you want to supplement an existing system with CTC CombiAir. These smart control modules automatically monitor and control CTC's heat pumps, additional heat, buffer tanks, solar, pool, etc.





# Indoor modules that control and manage the heating needs of your home

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. The control system is accessed by a user-friendly colour touchscreen with clear symbols.







# CTC EcoZenith i255

Efficient indoor module in two heights.

The indoor module must never be a weak link – then it won't matter how efficient the heat pump is.

## Flexible indoor module

For CTC EcoZenith i255 we have chosen the same technology as in the CTC EcoHeat ground source heat pump. CTC EcoZenith i255 is built with a water buffer that ensures good operating conditions for the compressor, irrespective of the heating system. This minimises the risk of noise problems in your radiator system.

CTC EcoZenith i255 has many advantages: How about intelligent heat pump control? A colour touchscreen? Solar heating connection? Just to mention a few examples.

CTC EcoZenith i255 has a 4.3 inch touch screen, and the user-friendly interface allows you to easily access all the features, just like on your smartphone. In addition, you can easily mirror the display on your tablet, mobile, etc.

But most important of all is the option to switch languages and the clear symbols – you can easily adjust the heating, hot water and other functions or retrieve a wealth of operating data.

## The inside is the strong side

The most important function of the indoor module is to produce a lot of hot water as economically and quickly as possible. CTC EcoZenith i255 will not let you and your family down. CTC EcoZenith i255 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 holds a full 223 litres.

## Freedom included

You can add other energy sources now or later. Two connections are ready to link e.g. solar heating, a water-jacketed stove, or why not a pool?

## And everything else

- Add ground source heating with CTC EcoComfort, and get free cooling in the summer.
- Choose the height that fits: 1654 or 1904 mm.
- A control function that limits electrical output comes as standard.

- The cover (pictured) is standard but is available in several heights for a neater installation.

## Smartgrid and ready for the future

CTC EcoZenith i255 has internet connectivity as standard so that you can easily control your product remotely using the myUplink app. It is also equipped to connect to Alexa, Google Home and the future power grid (SmartGrid).



# CTC EcoZenith i360

Ultra-efficient indoor module for plenty of hot water.

CTC EcoZenith i360 is equipped with an efficient flow-through DHW heater.

When combined with CTC EcoAir or CTC EcoPart, it can produce over 300 litres of hot water.

## A complete heat pump

CTC EcoZenith i360 has a stylish design, integrated display and high-quality finish! The design of your new indoor module allows it to become a stylish part of your interior, wherever you choose to install it.

With the integrated touch screen, CTC EcoZenith i360 has a user-friendly interface where you can easily access all functions and can both swipe and scroll, just like on your smartphone. In addition, you can easily mirror the display on your tablet, mobile, etc.

The colour touch screen has clear symbols and the option to switch languages, making it easy to adjust the heating and hot water or to retrieve a wealth of operating data.

CTC EcoZenith i360 is an ultra-efficient indoor module with built-in heat pump control. Install it together with CTC EcoAir air-to-water heat pumps for the perfect combination. For those who would prefer ground source heating, CTC EcoPart is the ideal choice.

## All-inclusive with minimal energy losses

The expansion tank, supply cable and primary flow sensor are all factory-fitted. In addition, the manometer and automatic bleeders come as standard. CTC EcoZenith i360 is well-insulated and therefore has minimal energy losses.

## Low ceiling height? No problem!

Choose the height of the indoor module that suits your home. It is available in two heights: 1666 or 1924 mm. The low height model has pipe connections at the top while the taller model connects at the bottom.

## Climate-controlled and expandable

The built-in shunt-automatics is climate-controlled and takes into account both internal and external temperatures. CTC EcoZenith i360 is able to control two individual heating systems as standard.

By using various accessories, you can easily add solar heating, or let a water-jacketed stove or your existing water boiler contribute heat. Or why not connect a pool so you can also enjoy the warmth in summer?

## Smartgrid and ready for the future

CTC EcoZenith i360 has internet connectivity as standard so that you can easily control your product remotely using the myUplink app. It is also equipped to connect to Alexa, Google Home and the future power grid (SmartGrid).





# Heat pumps for larger properties

Regardless of whether you have a large house, block of flats, church or industrial premises, we have the right heat pump solution. Our system solutions provide virtually unlimited possibilities to adapt the heating system to your property.

To meet greater energy needs, it is easy to connect several of our heat pumps in series, which can then provide up to 170 kW. If this is not enough, you can combine your CTC heat pump with other energy sources.

All our system solutions ensure that you get a perfect indoor climate in the most cost-effective way.



# CTC EcoPart Pro/Basic

3-stage ground source heat pump with built-in control.

CTC EcoPart Pro/Basic is suitable for heating larger buildings, such as apartment blocks, industrial premises and churches.

## Smart and simple control

CTC EcoPart Pro comes with the unique CTC EcoLogic L control system built-in. The control unit handles your entire heating system. It monitors and controls your heat pumps, domestic hotwater, solar panels, additional heating, buffer tanks, pool, passive cooling and more. Internet connectivity is standard so you can easily control your product with Modbus, the myUplink app or the like.

If you don't need such an advanced control system, you choose the CTC EcoPart Basic instead, which can be controlled with a digital signal (thermostatic control). It can also be controlled by regulating the return temperature, a simple control method which is ideal for buffer tanks. It couldn't be simpler or more flexible.

## Very low noise level

Using separate cooling modules, 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. This results in fewer starts/stops and higher heating comfort compared with single-stage products. The separate cooling modules also have a very low noise level.

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

## More hot water and warmer radiators

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

CTC EcoPart Pro/Basic are ground source heatpumps designed to be connected to new or existing systems. The collector system can easily be connected on the right, left, top or rear sides. CTC EcoPart Pro/Basic – a safe and obvious choice.





# CTC EcoAir

## Efficient air-to-water heat pumps.

The CTC EcoAir 410–420 heat pumps and the inverter controlled heat pump CTC EcoAir 622M are perfect for large houses, apartment blocks and industrial premises. You can also connect up to ten heat pumps together.



### Power when it is needed most

The CTC EcoAir provides more power when you really need it – when it is cold outside. CTC EcoAir is available for both the small house and the large property.

The greatest challenge faced by heat pumps in apartment buildings is the ability to produce a lot of hot water quickly, even when it's really cold outside.

CTC EcoAir, for example, supplies hot water up to 65°C in outdoor temperatures from as low as –10 and up to +40°C. If the cold really hits hard and the temperature drops to –22°C it will still manage to supply 54°C hot water.

### Efficient compressor

The CTC EcoAir series has been designed to operate with a low noise level and high efficiency. The heat pumps have an efficient and reliable compressor. This – together with the fan design – makes CTC EcoAir a reliable and quiet series of heat pumps.

### System solutions for properties

Our system solutions provide virtually unlimited possibilities for adapting the heating system to your property and your needs.

For optimum comfort and economy, install the CTC EcoAir together with CTC EcoZenith i555 Pro, the

intelligent, all-in-one tank for heating and domestic hot water.

### Advanced heat pump control

The CTC EcoLogic L control unit is also available if you have greater needs or a system you wish to supplement. It connects your existing DHW and heating system to up to 10 heat pumps.

The control unit in CTC EcoZenith i555 Pro or CTC EcoLogic L can manage your entire heating system and control domestic hot water production according to your preferences and needs. You can also connect the control unit to a remote computer (DUC) or control it with the myUplink app. 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 installer's dream

We have listened to our installation technicians and paid serious attention to their points of view and requests. CTC EcoAir is easy to install. It requires little space and has easy pipe and cable routing at a convenient mounting height with plenty of room to spare.

# CTC EcoZenith i555 Pro

Pool? Solar heating? Or just teenagers?

CTC EcoZenith i555 Pro is an all-in-one tank with built-in, intelligent control.

## Smart display

CTC EcoZenith i555 Pro has a 4.3 inch touch screen, and the user-friendly interface allows you to easily access all the features, just like on your smartphone. In addition, you can easily mirror the display on your tablet, mobile, etc. Most importantly, however, the language can be switched, and it also has clear symbols – making it easy to adjust the heating and hot water, as well as retrieve a wealth of operating data.

## Built-in intelligent control

CTC EcoZenith i555 Pro can control all components in one or more heating systems: solar heating, pool heating, extra hot water and buffer tanks, electricity, wood, oil, gas and pellet boilers. It can even control many different types of heat pump and choose which one is to be used for optimal savings.

## Flexible heating system

CTC EcoZenith i555 Pro has several connection points on the sides. This provides discreet and simple pipe installations along with possibilities to easily extend the system in the future. Add CTC heat pumps and you have unlimited possibilities to create a flexible heating system. If you want to utilise solar heating, CTC EcoZenith i555 Pro is equipped with solar control and a 10 metre-long solar coil.

## Plenty of hot water

CTC EcoZenith i555 Pro provides plenty of hot water. At a flow rate of 22 litres per minute, the capacity is more than 600 litres of 40°C hot water.

## Superior insulation

CTC EcoZenith i555 Pro has superior insulation with 90 mm-thick injection-moulded polyurethane. The insulation is supplied separately, which allows CTC EcoZenith i555 Pro to fit through a standard door.

## Low ceiling height? No problem

Since the CTC EcoZenith i555 Pro is only 1.7 metres high, it can easily be placed in areas with low ceilings.

## Output up to 27 kW

CTC EcoZenith i555 Pro 3x400V is equipped with two immersion heaters with a total of 18 kW. An additional immersion heater is available as an accessory to achieve a total output of 27 kW.

## Smartgrid and ready for future challenges

CTC EcoZenith i555 Pro has internet connectivity as standard so that you can easily control your product remotely using the myUplink app. It is also equipped to connect to Alexa, Google Home and the future power grid (SmartGrid).





# Water heaters and volume tanks

No matter what your hot water needs are, we have what you need! When you supplement a heat pump with a water heater, you get the maximum amount of hot water with minimal energy consumption.

Our hot water storage tanks are designed for almost all types of energy source. They are available in several models and sizes, and can also be combined to fit most heating systems and properties. CTC's volume tanks have been specially designed to increase the volume of the heating system with a heat pump.





# CTC Brilliant

A series of ultra-efficient stainless steel water heaters for houses and holiday homes.

Whatever your hot water needs are, we can fix it! We have everything from small wall-mounted water heaters for the holiday home to complete water heating systems for extra large hot water requirements. When you supplement a heat pump with a water heater, you get the maximum amount of hot water with minimal energy consumption.

## Wall-mounted water heaters

CTC Brilliant 60 and 110 are small, convenient, wall-mounted water heaters designed for holiday homes or small houses, where high output is required in a small area. Both models are easily mounted on the wall and have a power cable with plug.

## High hot water demand

CTC Brilliant 200 and 300 are floor-standing heaters that are suitable for use with our heat pumps. If you have a big family or greater hot water needs, it may be a good idea to combine your heat pump with CTC Brilliant 300 for maximum hot water at minimum energy consumption.

## Vertical installation

All models are designed for upright installation and the connection is made under the heaters and can be made directly from the floor or from the ceiling.

## CTC Brilliant meets high energy demands

All models are efficiently insulated. They are heated by a stainless steel immersion heater controlled by an adjustable thermostat.



# CTC Modul

A series of water heaters for high demands.

CTC Modul is a series of stainless steel, efficient and reliable water heaters, specially developed for high hot water demands.

## The complete system for domestic hot water

CTC Modul is a series of stainless steel, efficient and reliable water heaters, specially developed for high hot water demands.

CTC Modul has a stable housing in painted sheet metal and effective insulation in PUR/Neodul, which minimises energy loss.

The heaters' water stores are made of stainless steel, which makes them highly resistant to corrosion.

CTC Modul is always installed vertically and has easy-to-reach connections.

The system is suitable for use together with heat pumps, solar panels or other external heat sources. CTC Modul is ideal for apartment buildings, industrial premises, hotels and recreational facilities. The series comprises heaters of 282 and 380 litres, which can be easily connected in series or in parallel with the capacity of your choice.





# CTC AT

Coil tanks and buffer tanks of 300 to 750 litres.

CTC AT is a series of buffer tanks designed for almost all types of energy sources. They are available in several models and sizes, and can also be combined to fit most heating systems and properties. All tanks are well insulated with polyurethane/mineral wool for the lowest possible energy loss.

## CTC AT 1

Coil tanks for efficient DHW heating. They are available in three sizes – 300, 500 and 750 litres – and in no less than five different models. CTC's tanks accumulate the radiator water instead of the domestic hot water, so that the heat pump operates as favorably as possible, and you always have fresh domestic hot water. The domestic hot water is heated via finned coils which are efficiently heated by the radiator water inside the tank.

CTC AT 300/25 has a volume of 300 litres and contains a hot water coil measuring 25 metres. CTC AT 500/25–50 has a volume of 500 litres and contains 1 to 2 coils measuring 25 metres. CTC AT 750/50–75 has a volume of 750 litres and contains 2 to 3 coils measuring 25 metres each.

CTC AT 300 is able to cover the hot water needs of an average-sized house. CTC AT 500 is able to cover the hot water needs of up to 10 apartments and CTC AT 750 up to 15 apartments. They can also be cascade-connected in situations where the hot water need is greater.

## CTC AT 2

Volume tanks for hot water storage. The hot water storage tanks are available in three sizes (300, 500 and 750 litres) and can be interconnected to achieve the desired storage volume.

A hot water storage tank is necessary for wood boilers in order to store energy, since wood boilers often produce more energy than can be consumed at any given time. The size of the tank depends on the size of the property and the type of wood boiler installed. In most cases, a modern wood boiler requires a storage volume of at least 1500 litres.

CTC AT 500 and 750 are also available in 6 bar versions for systems requiring higher pressure.



# CTC VT

## Volume tanks for enlarging heating systems.

CTC VT is a series of volume tanks specially designed to increase the volume of the heating system with heat pump operation.

### Well-insulated for minimal loss

To minimise heat loss and to meet high European energy requirements, all models are well-insulated with efficient, eco-friendly foam insulation.

### For all heating systems

CTC VT is a series of volume tanks specially designed and adapted for heat pump operation. They have been designed to be easily adapted to various types of heating system. CTC VT can be used for volume increase, flow equalisation and reduction of any annoying noises in the heating system. The series includes VT 50, VT 100, VT 200C and VT 300C.

### Wall-mounted volume tanks

Our smallest volume tanks, VT 50 and VT 100 is easily mounted on the wall with the accompanying wall bracket. They come with a bleeder and ball valve for the inlet.

### Floor-standing volume tanks

CTC VT 200C and 300C are floor-standing volume tanks with four side connections and two connections for temperature sensors. They are condensate-insulated, which makes them suitable also for heating systems with cooling.



A photograph of a modern, dark-colored house at night. The house has large windows and a garage. The image is overlaid with a dark teal color. The text "Control and smart accessories" is written in a large, white, sans-serif font across the middle of the image.

# Control and smart accessories

Smart control and accessories to supplement and simplify your heating system.



# CTC EcoLogic L and M

## Advanced heat pump control.

The CTC EcoLogic L and M control units are smart control systems that automatically monitor and control CTC heat pumps, supplementary heating, buffer tanks, solar heating, pool and free cooling, etc.

### Integrated display and modern design

The design of the CTC EcoLogic L/M control units is a further development of the proven CTC EcoLogic. CTC EcoLogic L/M has a modern design and integrated display.

The display has a user-friendly interface where you can easily access all functions and can both swipe and scroll, just like on your smartphone. In addition, you can easily mirror the display on your tablet, mobile, etc. The control logic has simple and clear symbols and the option to switch languages.

With CTC EcoLogic L, you can connect and control up to ten heat pumps and four heating circuits (four primary flow temperatures/heat curves).

CTC EcoLogic M is a slightly simpler variant able to control up to two heat pumps in up to two heating circuits, which is enough for most properties.

CTC EcoLogic L/M have a built-in power monitor, optional external supplementary heating (0-10 V, 0-3 stages or 0-7 stages), hot water prioritisation and a built-in common alarm. You can log operating data and update programs via USB.

### Control remotely

CTC EcoLogic L/M also have internet connectivity as standard so that you can easily control your product remotely using the myUplink app. For it to be compatible with a smart home, CTC EcoLogic L/M are prepared for connection to Alexa and Google Home, etc. You can also connect CTC EcoLogic L/M to a remote computer (DUC).



# CTC SmartControl

Smart homes with CTC.



**CTC SmartControl ensures that heating, hot water and ventilation are optimised.**

The system is based on CTC SmartControl Gateway, a base unit able to control up to seven optional wireless accessories. The series includes 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 that 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 increases ventilation when the house is full of visitors.

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 for control of 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 which can control ventilation as needed, 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-way button that can control several different functions, such as additional hot water.





# Smart accessories

– supplement and simplify.



## myUplink

With the myUplink app, you can monitor and control your system directly on your smartphone. For instance, you can adjust the temperature or be alerted if the system shuts down for some reason. myUplink can be downloaded free of charge from the App Store or Google Play.

## CTC EcoLogic S

A simplified control that allows the installation of a heat pump with an accumulator tank. Ideal when installing a heat pump together with our older indoor modules or products with a switching valve for hot water production.



## Housing cover and raised base

Conceal pipe connections, etc. with a stylish housing cover, or set the product on a base in the same design. Housing covers are available in three heights and can be combined to fit most products and ceiling heights.

## Passive cooling CTC EcoComfort

Passive cooling in the summer for a pleasant indoor temperature. Consists of a passive cooling unit that uses the cool borehole temperature for free cooling.



**View more smart accessories at [ctc-heating.com](http://ctc-heating.com)**

# Supplementary heat

Electric backup heating for 9–42 kW heat pump systems.

CTC EL is normally used as supplementary heat in heat pump systems controlled by CTC EcoLogic systems but can also be used together with other types of systems.

## When extra output is required

CTC EL is a flow-through heater supplemented with electrical control. When used in heat pump systems, CTC EL is most easily controlled with the CTC EcoLogic control system, which enables control via the myUplink app.

The flow-through heater in CTC EL is made of acid-resistant steel, which ensures a very long life span. CTC EL shall always be mounted vertically – the three smallest wall-mounted and the largest free-standing.

Areas of use: heat pump systems, solar heating systems and pool heating.



# 100 YEARS



# SINCE 1923

With 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 trace our roots back to 1923, when we began to heat Swedish homes. Our green boilers have supplied heating to millions of households all over Europe. We were the first company to offer heating water heaters 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 Småland and we are – along with Bentone and Turboflame – part of Enertech AB, which sells products across the globe. With us you are assured peace of mind, quality and warmth!