

Flexible heating system without limits.



# ENERGY FLEX

A large graphic of the words 'ENERGY' and 'FLEX' in a bold, white, outlined font. The 'X' in 'FLEX' is replaced by a white arrow pointing upwards and to the right. The text is set against a background of green, wavy, abstract shapes and small white dots, suggesting energy or movement.



# Only at CTC. Freedom of choice with Energyflex.

At CTC we have always believed in flexible systems. That is why you always receive Energyflex when you invest in one of our heat pumps. This means you have the freedom to easily connect to other heat sources, pools and tanks at any time, cost-effectively and within a single system.

The system is based on an environmentally friendly, economical and flexible heating system consisting of a CTC heat pump. Then, by connecting to one of our intelligent all-in-one tanks, you are prepared for anything.

#### **Start now. Add more later.**

Start with one heat pump. Then you can easily connect and supplement your heating system with virtually everything in terms of heating: solar

panels, additional tanks, water-jacketed stoves, as well as boilers running on wood, electricity, pellets and even gas..

#### **Freedom that doesn't cost extra.**

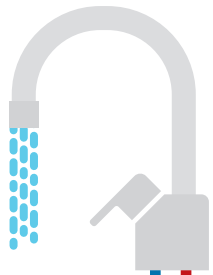
Best of all is that this flexibility doesn't cost any extra. It's included as standard for all of our heat pumps. No hassle or awkward system solutions. All you need to do is connect, control and enjoy. And save money.





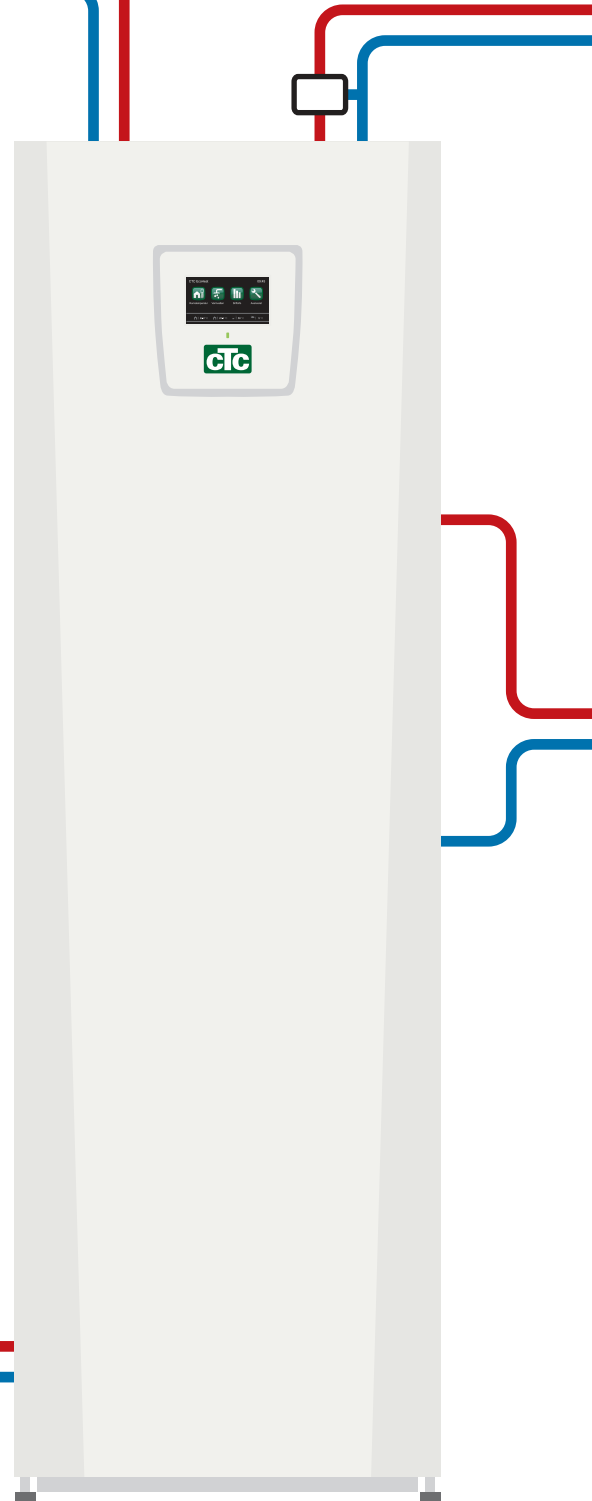




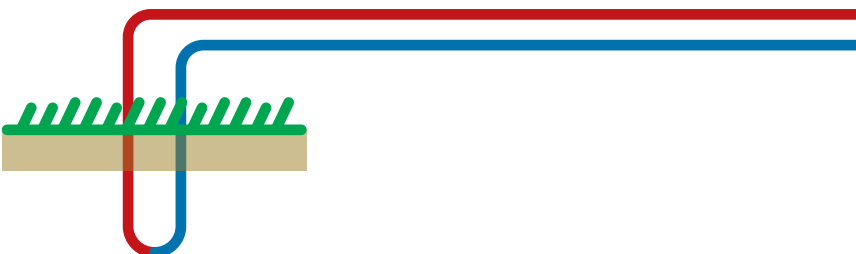


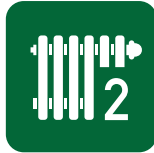
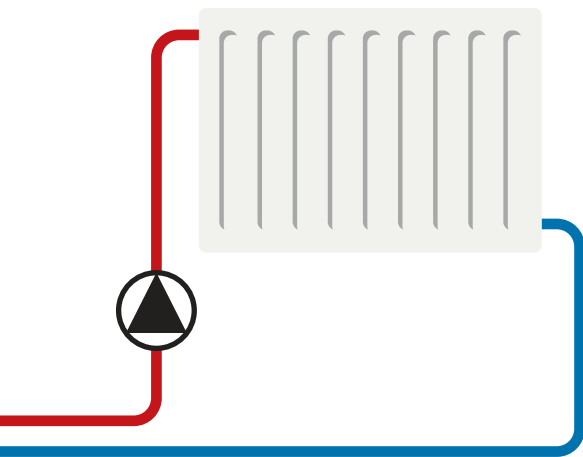
Warm water is produced retrospectively as it is consumed. The technology provides guaranteed legionella-free, fresh hot water at all times.

The silent new CTC EcoHeat 400 bedrock/ground source heat pump. With touch screen to control the entire heating system: including external heat sources, cooling, pools and anything else that is included in Energyflex.



Choose between a bedrock, lake or ground heat connection.





CTC's heat pumps convey heat to radiators and underfloor heating systems. The technology provides more even heat, completely free from annoying clicks from radiators or floor heating.

Connect up to two radiator or underfloor heating systems.

One- or two-pipe systems including older low-temperature systems.

A floor heating block limits the temperature in the floor circuits.

## The basis of Energyflex: heat pump.

An efficient heat pump is the framework of your heating system – whether ground, lake, air or bedrock based.

The common denominator is water-borne heating systems – radiator systems or underfloor heating.

### Choice of heat pump

The heat pump that you choose depends on a number of factors. The main options are:

- CTC EcoHeat heat pumps for bedrock, soil or lake heat. Built-in control and water heating.
- CTC EcoPart – compact heat pumps for bedrock, soil or lake heat together with one of our two intelligent all-in-one tanks (CTC EcoZenith i550/i250).
- CTC EcoAir heat pumps for air/water. Placed outdoors and supplemented with one of our two intelligent all-in-one tanks (CTC EcoZenith i550/i250).

# Start now. Add more later.

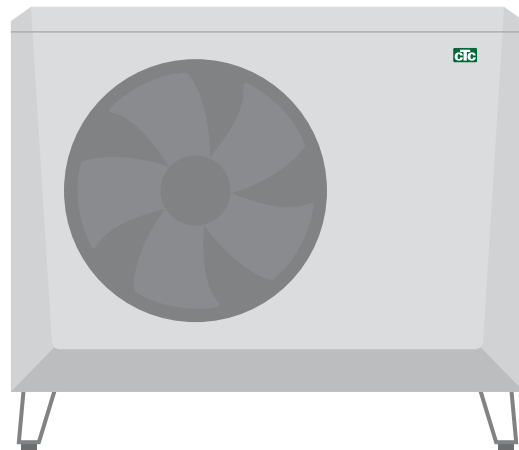
CTC's technology enables you to supplement the heat pump with different types of boilers, solar panels, pool heating, cooling, extra storage tanks and more. It all forms a heating system that can be controlled by you from a single place.

The entire system is controlled by you via a colour 4.3" touch screen. It is in your language and uses simple symbols. The most important functions:

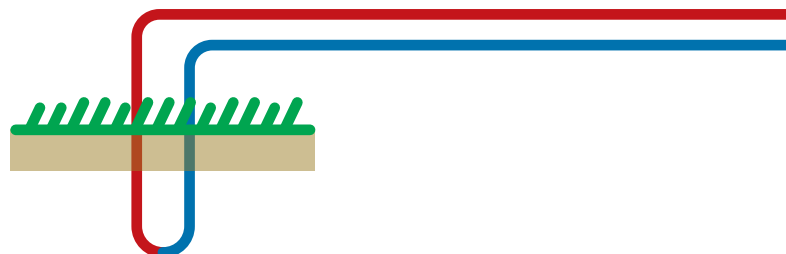
- Monitors all heat pump functions.
- Allows for customised settings.
- Displays desired values, e.g. temperatures, operation times, energy consumption, and error alerts in a simple and structured way. It simplifies set-up and troubleshooting.
- Automatically recognises systems that are on.

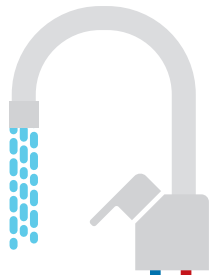


**CTC EcoAir is a heat pump for water-borne heating systems (air/water). Works best together with the CTC EcoZenith i250/i550 Pro module with an integrated regulator that produces plenty of hot water.**



**Choose a bedrock, lake or ground heat connection. Then choose between CTC EcoHeat or CTC EcoPart (each without integrated control and water heating). CTC EcoPart can instead be complemented with a CTC EcoZenith i250/i550 Pro module with integrated control and water heating.**





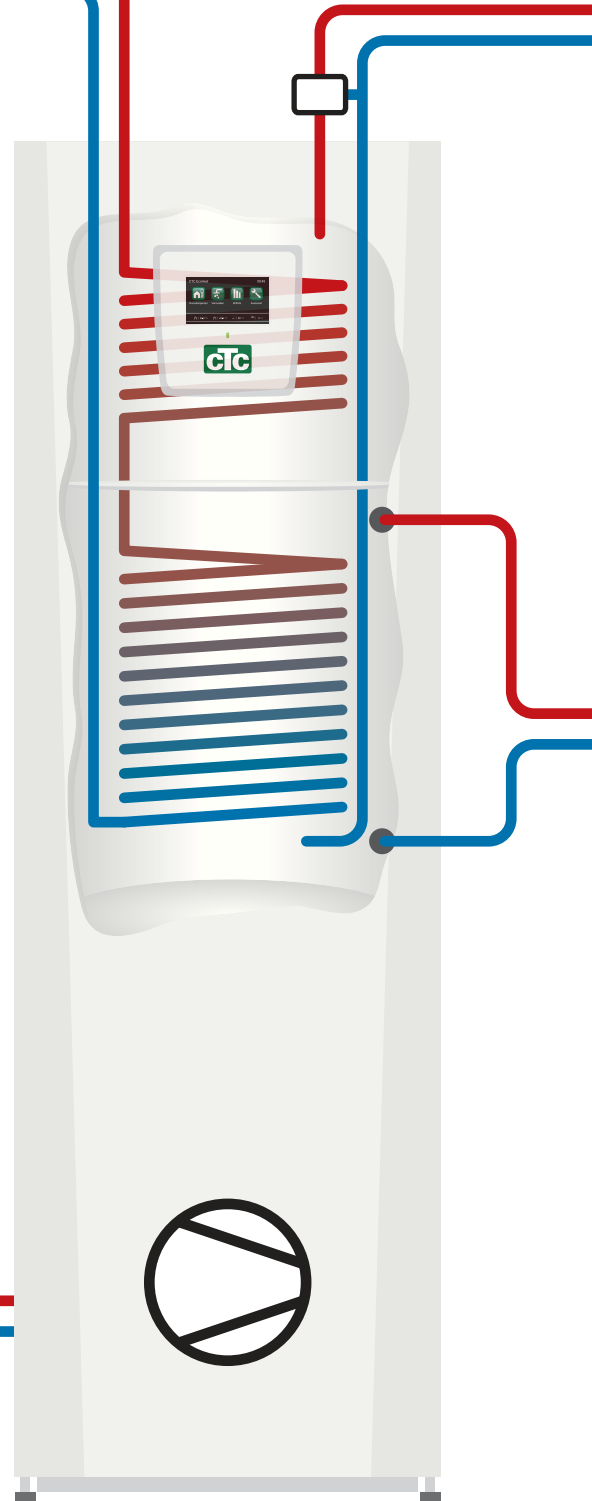
Warm water is produced retrospectively as it is consumed. The technology provides guaranteed legionella-free, fresh hot water at all times. A function is available for temporary extra hot water.

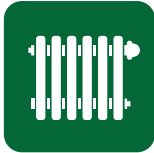
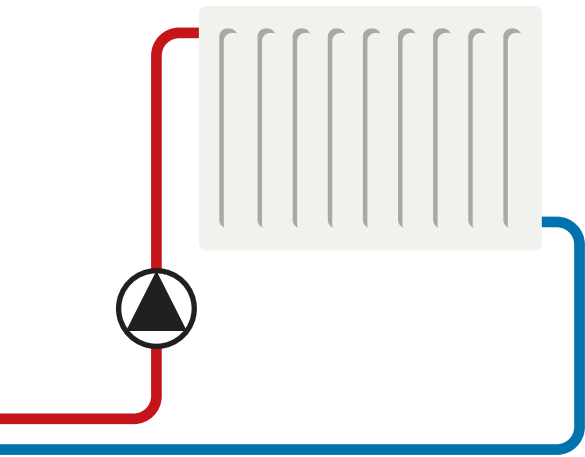
Two connections – plenty of possibilities.



Pleasant cooling in the summer with the optional CTC Comfort utilises the cool temperature of the borehole/collector. Applies to CTC EcoPart and CTC EcoHeat.

The CTC EcoHeat bedrock/ground source heat pump and the CTC EcoZenith i250 module have water heating, integrated control and possibilities with Energyflex. The difference is the heat pump module at the bottom, including the compressor.



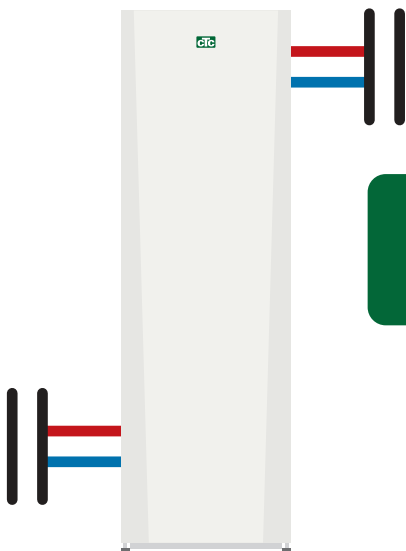
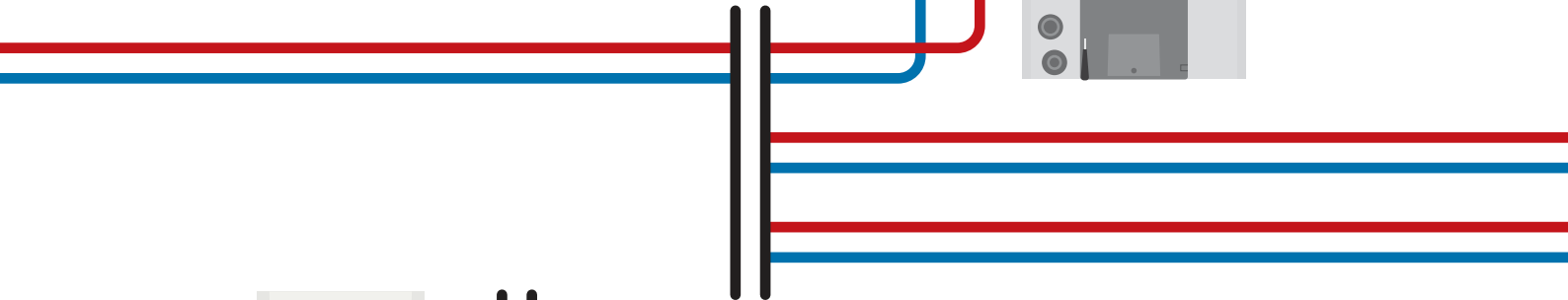
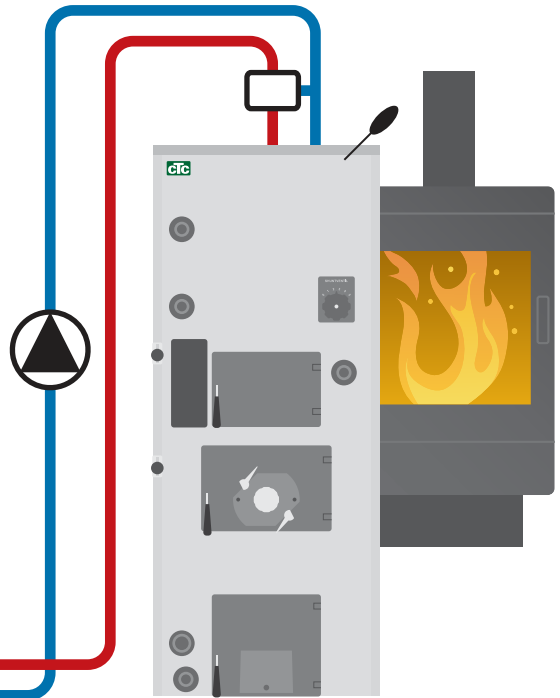


Connect up to two radiator or underfloor heating systems. Suitable for one or two-pipe systems.



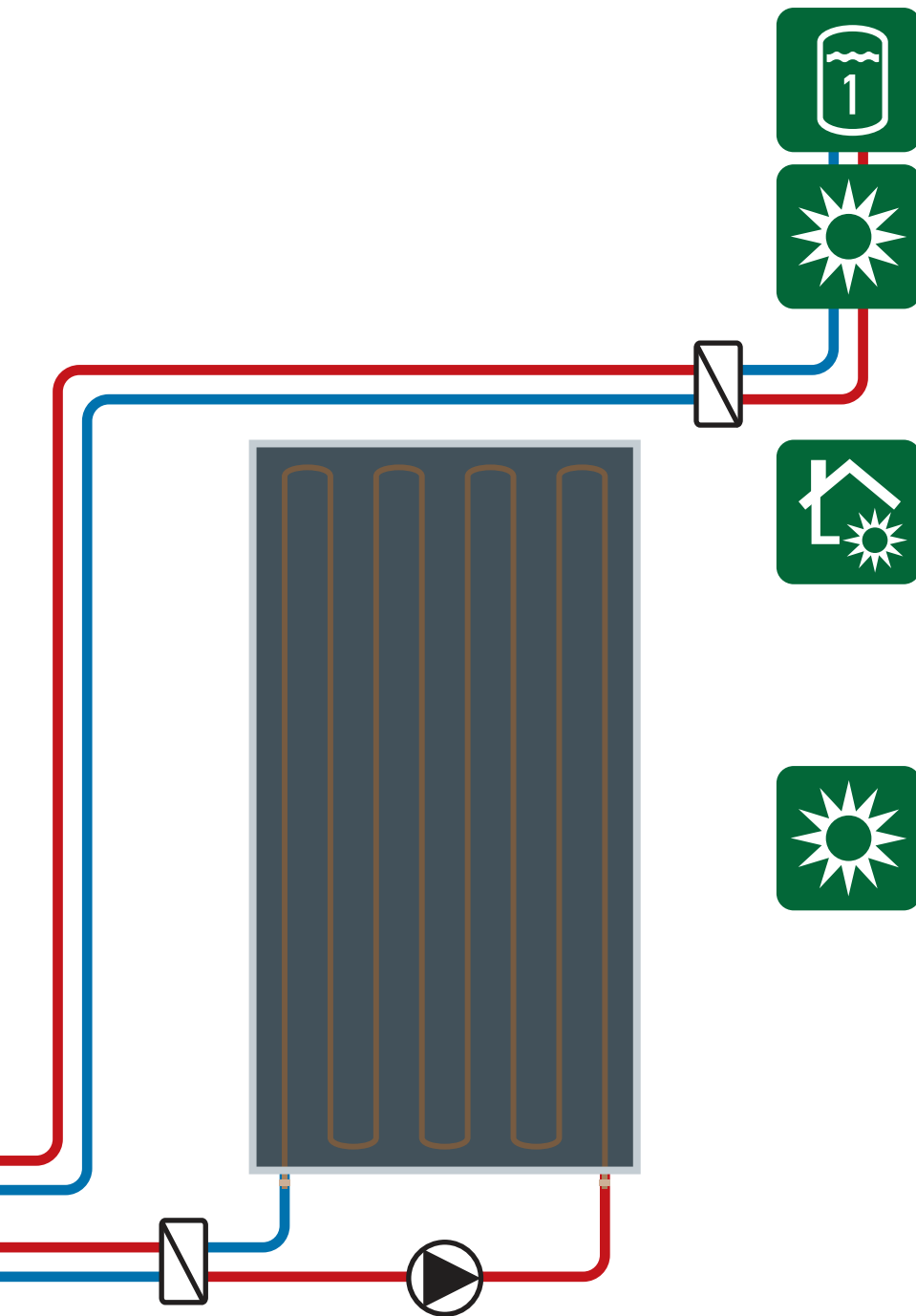
It is possible to replace a radiator or underfloor heating system with cooling.

Connect and control external heat sources such as a water-jacketed stove, wood, pellet, oil or gas boiler.



Connect and control up to two additional accumulator tanks, such as the CTC EcoTank. Perfect for accumulating additional heat from auxiliary heat sources.





With a CTC EcoTank accumulator tank, the system can be supplemented with additional solar panels.



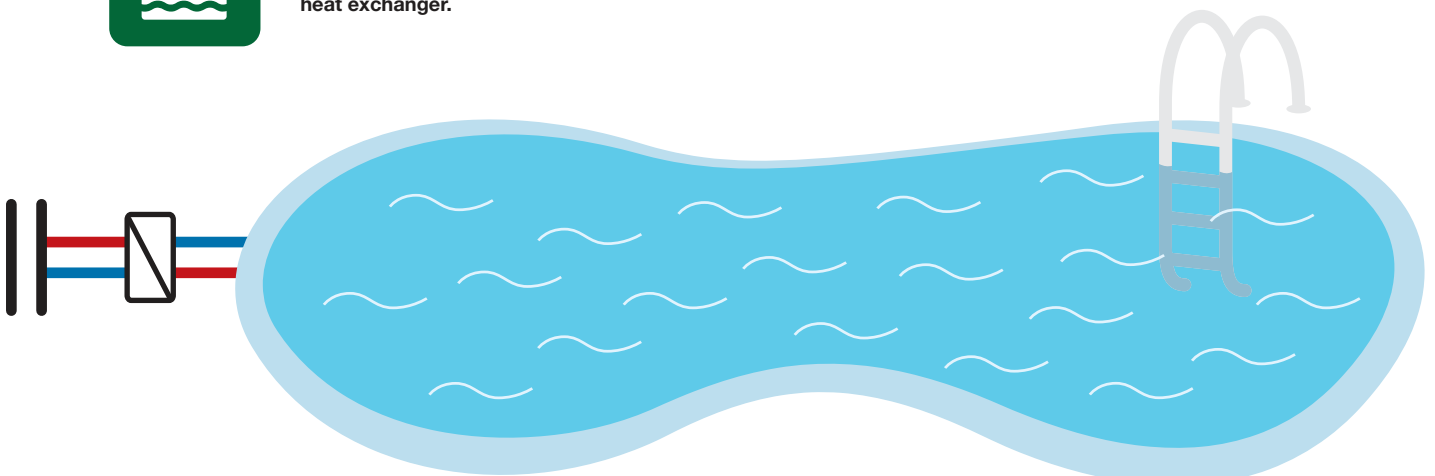
Solar charging: with a CTC heat pump for bedrock, the solar panels charge the borehole during the summer.



Connect and control solar panels with an CTC EcoZenith i250 or CTC EcoHeat bedrock/ground source heat pump. Available in practical complete solar kits.



With CTC's heat pumps, owning a pool becomes simpler and cheaper. CTC's heat pumps can control the pool temperature. Simply connect it via a heat exchanger.



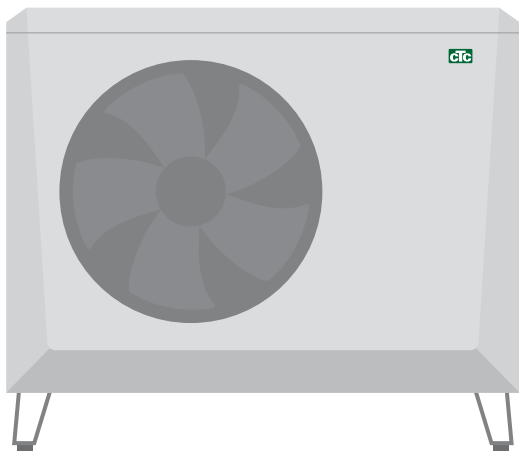
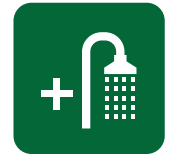
# CTC EcoZenith i550 Pro. Everything you want and more.

CTC EcoZenith i550 Pro is an extraordinary and innovative technical solution – an all-in-one tank with built-in intelligence. Energyflex at it's best.

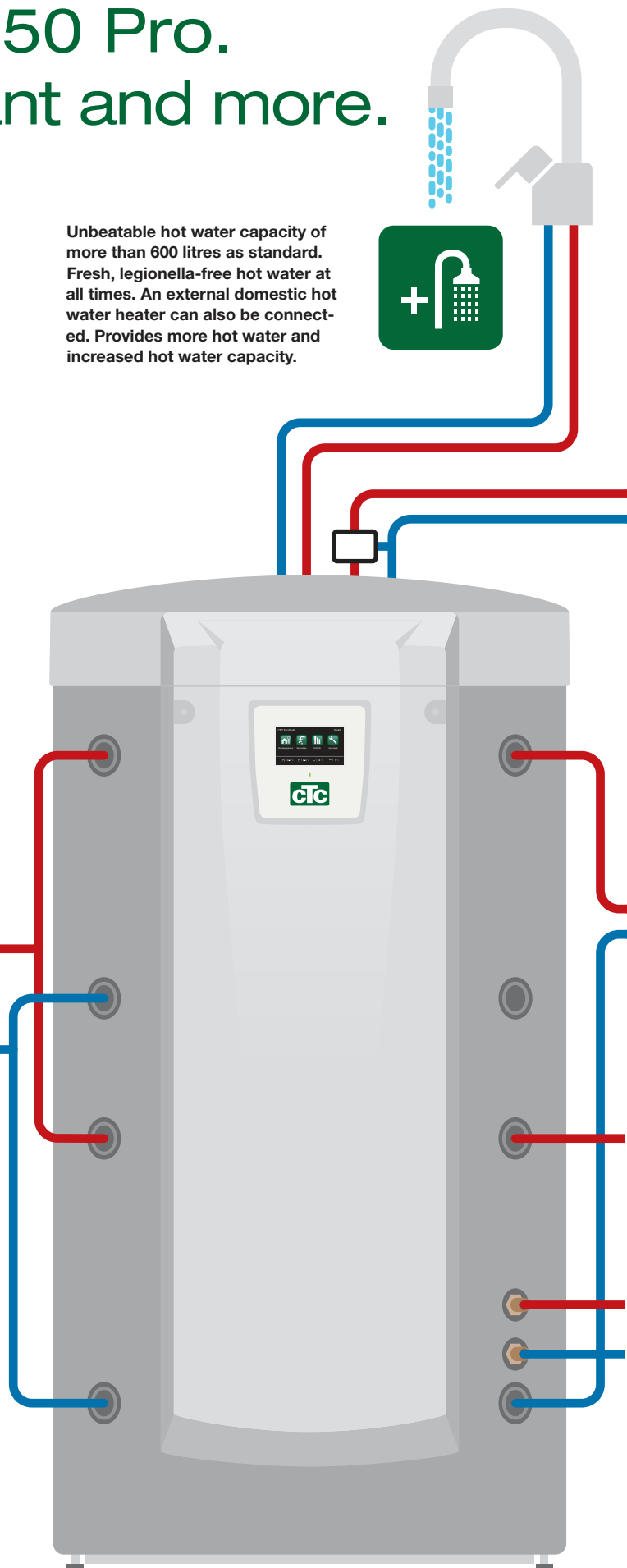
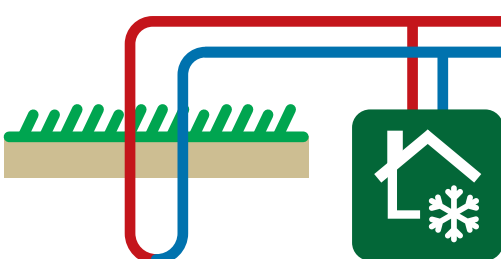
A tank in excess of 500 litres with water heating, integrated solar coils, built-in control that identifies and controls additional heat sources and much, much more.

The CTC EcoZenith always prioritises the most economical way of heating the house and producing hot water.

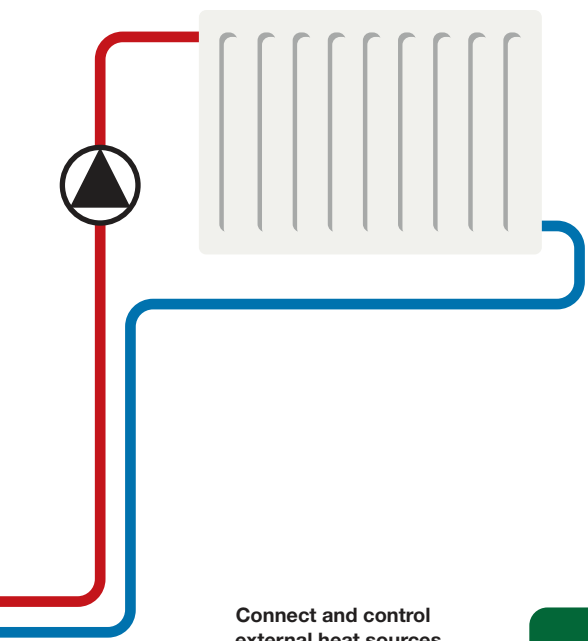
Unbeatable hot water capacity of more than 600 litres as standard. Fresh, legionella-free hot water at all times. An external domestic hot water heater can also be connected. Provides more hot water and increased hot water capacity.



Do you prefer a heat pump for air/water or a heat pump for bedrock, lake or ground heat? Choose and combine up to three heat pumps. Smart controls equalise the operating time between the heat pumps so as to maximise heat output and minimise the load.

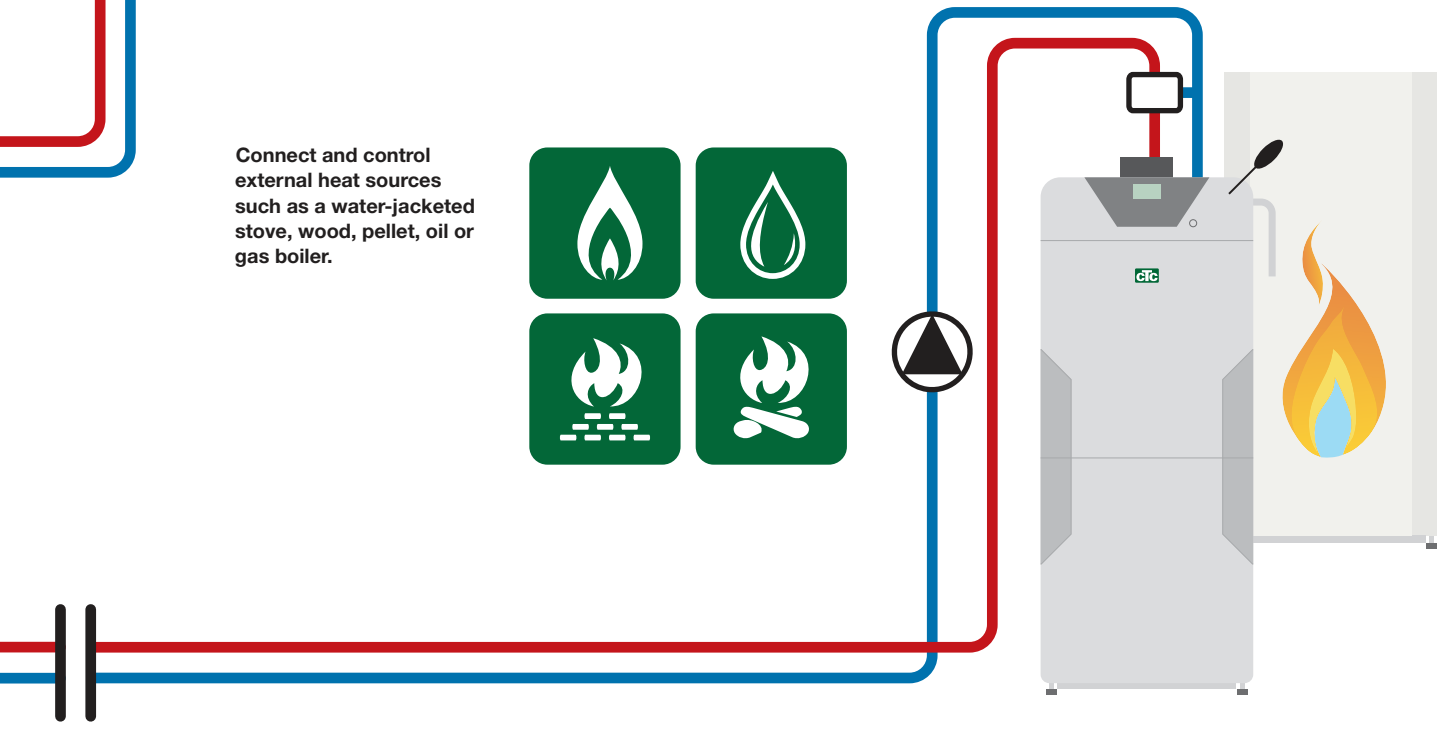






Connect up to three radiator or underfloor heating systems. Suitable for one or two-pipe systems.

Connect and control external heat sources such as a water-jacketed stove, wood, pellet, oil or gas boiler.



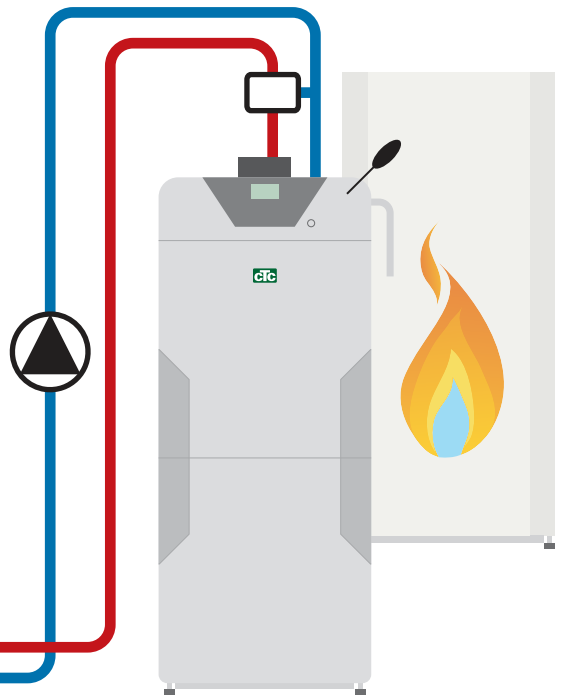


Connect up to three radiator or underfloor heating systems. Suitable for one or two-pipe systems.



Replace a radiator or underfloor heating system with a cooling system. Cooling is drawn from the borehole through an accessory.

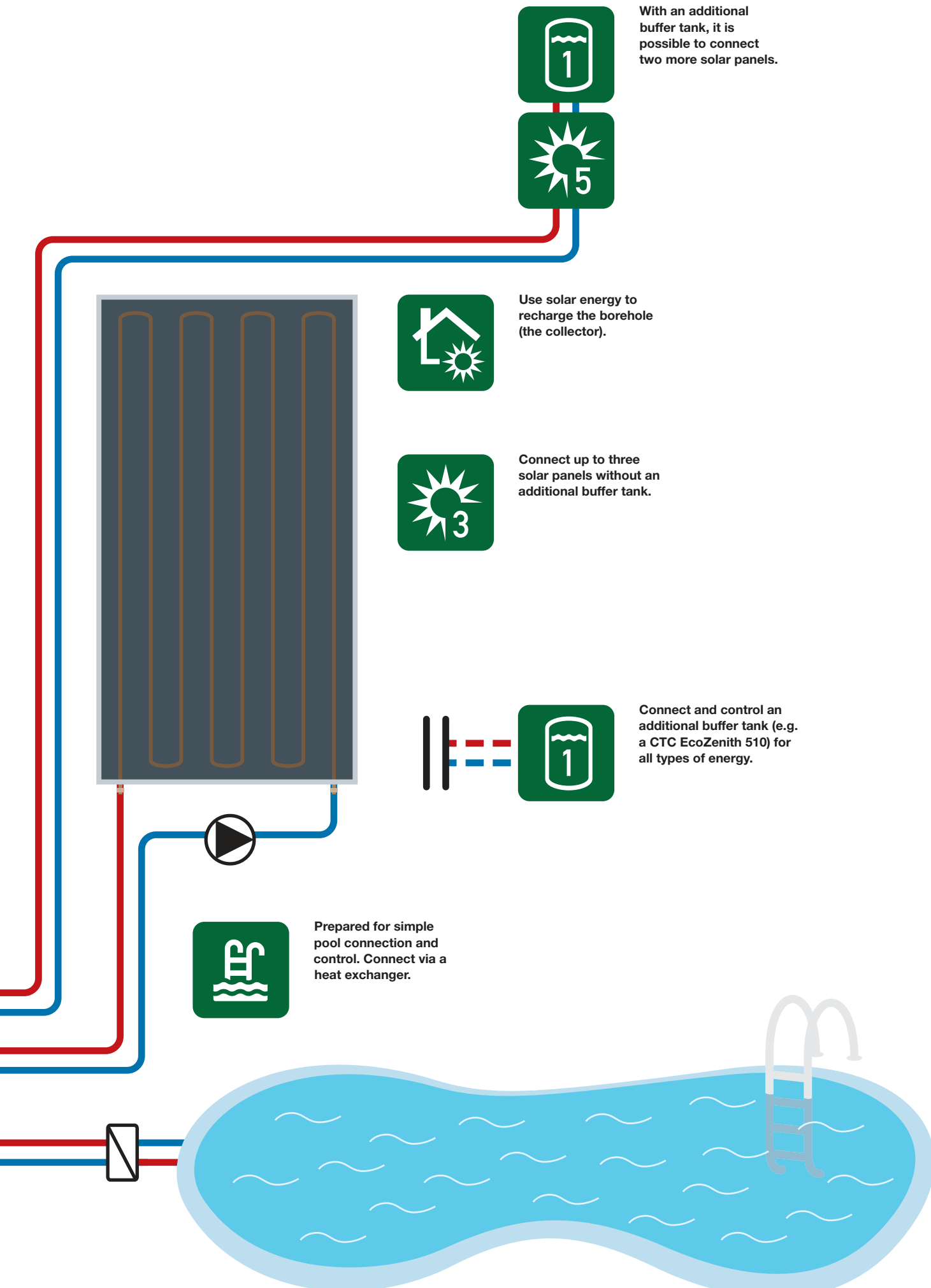
Connect and control external heat sources such as a water-jacketed stove, wood, pellet, oil or gas boiler.



Two connections for a solar coil.







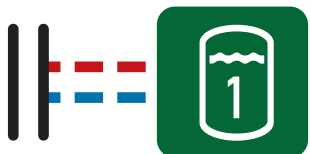
With an additional buffer tank, it is possible to connect two more solar panels.



Use solar energy to recharge the borehole (the collector).



Connect up to three solar panels without an additional buffer tank.



Connect and control an additional buffer tank (e.g. a CTC EcoZenith 510) for all types of energy.



Prepared for simple pool connection and control. Connect via a heat exchanger.

# You think the outside is smart? You should see on the inside.

We have been developing heating products for more than 90 years. In area after area, we have been pioneers with new technology and greater performance. Our new series of heat pumps for bedrock are no exception. In every aspect, you will find well thought out, intelligent solutions that provide better comfort, heat economy and easier installation.

**Unbeatable hot water capacity. More than 600 litres of hot water at 40 °C.**

**No additional costs for control, extra solar tank or boiler.**

**Many installations require a control function that limits the electrical output. This is standard on the new CTC EcoZenith i550.**

**Future-proof – connect and control now or in the future:**

- Heat pumps: bedrock, air/water or both.
- Firewood supplement: wood boiler or water-jacketed stove.
- Solar panels.
- Pool.

**Spacious – more than 500 litres – but unusually compact. Can be put into a space with a regular ceiling height. Fits through standard doors.**



**No ordinary insulation (90 mm moulded polyurethane). Minimises heat loss resulting in lower energy costs.**

**Controlling a heating system is about comfort, low energy consumption and safety. The built-in control:**

- Prioritises the most economical way of heating the house and the hot water.
- Controls and monitors every part of the house.
- Automatically senses how the heating system is put together and the heat sources that are connected.

**Hot water that is completely safe from legionella. The hot water is never stationary, unlike a standard water heater where the temperature must be sufficiently high to kill legionella bacteria.**





The automated bivalent mixing valve allocates even heat to the radiator system at all times. The technology is unique; eliminating clicks in heating pipes and providing more even heating.

Large clear touch screen. A choice of languages and simple symbols make it easy to retrieve a wealth of operating information and to adjust the settings.

A built-in electrical immersion heater provides additional heating.

A well-dimensioned finned coil made of copper produces fresh hot water at all times. A low temperature can be maintained without the risk of legionella bacteria.

The adjustable-speed heat medium pump transports the cold water from the heating system to the condenser where the energy from the bedrock/ground/lake is drawn up and directed towards the heat pump.

**Fresh water supply:** The cold water is directed down to the lower part of the coil.

In the upper part of the coil the water is heated to the desired temperature.

Pool connection as standard.

Control and monitor remotely with accessories that you connect to the Internet or mobile network.

A separate, soundproof device for compressors and refrigeration components reduces noise.

In the lower part of the coil the hot water is pre-heated by the hot water from the heat pump.



**CTC EcoZenith.**

CTC's groundbreaking intelligent all-in-one tanks. Available in different versions with varying performance.



**CTC EcoZenith i250.**

Intelligent heat pump control, colour touch screen, solar connection and hot water in a tank that holds 223 litres. Two heights.



**CTC EcoTank 300.**

An accumulator tank of more than 300 litres. More than a normal tank – it has layered discs.

**CTC EcoHeat 400.**

Heat pumps for ground, lake and bedrock. Four models from 6 to 12 kW. Colour touch screen



**CTC EcoPart 400.**

Compact heat pumps for ground, lake and bedrock. Twelve models from 6 to 35 kW.



# Complete range.

## **CTC EcoAir 400.**

Sweden's best selling heat pump for air/water. Now quieter than ever. Five models for everything from detached houses to buildings 6 to 20 kW.

## **CTC EcoAir 520M.**

Our new, speed (rpm) controlled heat pump for air/water, which automatically adapts to your needs and the needs of your property. This results in less energy consumption and higher efficiency. The heat pump's output range is 4.5 - 20 kW.



## **Wood and pellet boilers.**

A wide range that includes one of the world's most sophisticated wood boilers, the CTC V40, with 92% operating efficiency and electronic Lambda control. Meets Europe's strictest environmental requirements.



## **Solar collectors.**

Choose from efficient flat-plate and vacuum solar collectors. The solar collectors are sold as complete packages, ready to be connected to CTC's heat pumps or accumulator tanks.



## **CTC EcoLogic.**

Capable of controlling up to ten heat pumps and four heating circuits. Large clear 4.3" colour touch screen.



## **Accessories.**

Cooling, heat recovery and exhaust air unit, SMS control, cover caps and extendible baseboards ... the list of accessories is long.



No other manufacturer can offer Energyflex: it allows the freedom to connect to other heat sources, pools and tanks simply and cost-effectively within a single system.

But it takes more: a vast, wide range of efficient heat pumps, intelligent tanks, accessories and control systems that allow you to achieve even, comfortable heating in smaller houses as well as larger properties.

None of this would have been possible without our 90 years of experience. We have been pioneers of heating in a number of areas, of which Energyflex is the very best example.