EcoZenith i550

All-in-one thermal store with intelligent control

Enertech Group

Compact Intelligent Thermal Store with EnergyFlex

The CTC EcoZenith i550 is a thermal store with built-in intelligent controls. As part of the EnergyFlex family of products the EcoZenith i550 offers a unique and efficient solution to your total heating and hot water requirements.

A thermal baffle segregates the upper and lower sections of the i550 allowing the upper part of the tank to be heated to a higher temperature than the lower part of the tank. With the upper tank providing the elevated temperature required for hot water production and the lower tank providing the temperatures as required for the weather compensated heating circuits.

Able to control up to 3 heat pumps with the facility for 3 independent weather compensated heating zones. Domestic Hot Water (DHW) is produced by large area finned copper coils capable of providing up to 600 litres of hot water at 40°C with a flow rate of 22 l/m. Due to the low water volume stored within the coils hot water production is legionella risk free. With the DHW a secondary return pump can also be directly controlled by the EcoZenith i550 and there is the ability to add additional DHW storage so the EcoZenith i550 meets the most demanding hot water requirements.

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Key features

- Intelligent thermal store providing both heating (LTHW) and domestic hot water (DHW)
- Controls up to 3 CTC heat pumps and 3 weather compensated heating circuits
- Produces up to 40 l/min of DHW safe from Legionella
- Built-in 10 kW solar coil and controller as standard
- Integrates with gas, oil, wood and pellet fired boilers
- Can control swimming pool heating, borehole recharging, comfort cooling and much more
- Heating system schematic produced with CTC EcoZenith i550 Dynamic PDF
- With CTC Connect app the system can be controlled from your smart phone or iPad via the Internet or SMS

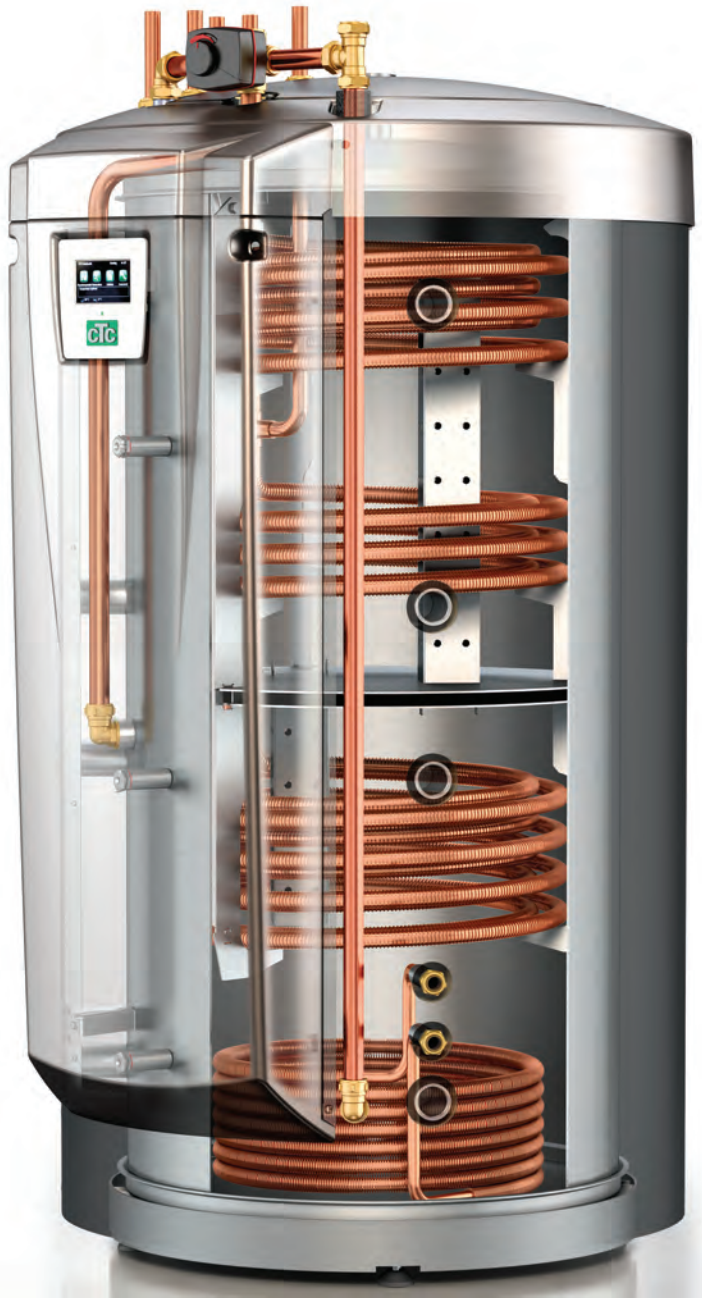
ENERGY FLEX

EcoZenith i550

Flexibility in fuel choice is provided by the EcoZenith i550 which is able to control a number of heat sources including gas and oil boilers, wood pellet (CTC EcoFlex) and wood log gasification (CTC V40 and V22) and has a 10 kW solar coil.

The EcoZenith i550 can also control pool heating, borehole recharging from thermal solar panels and additional buffer tanks. Electric immersion heaters are also fitted to provide both backup and boost capabilities.

EcoZenith C530 and C510 thermal stores provide additional buffer capacity for additional heat input such as solar and wood boilers. The C530 has both thermal baffle and DHW coils and 10 kW solar coil. The C510 is a 555 litre matching buffer.



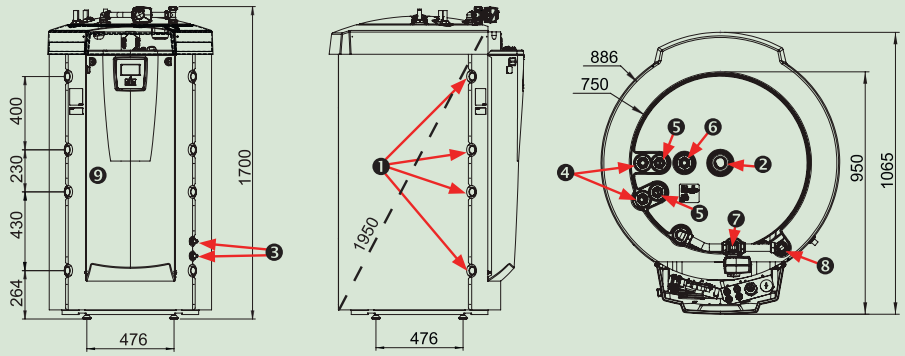
ENERGY FLEX

TECHNICAL DATA				
Electrical Data		EcoZenith i550	EcoZenith C530	EcoZenith C510
Intelligent control		Yes	-	-
Electrical connection		1 x 230V 3 x 400V	-	-
Immersion heaters	kW	9 9 + 9 (+9)	-	-
Immersion heater steps	kW	3 3 + 0.3	-	-
IP Class		IPX1	-	-
Other Data				
Delivery dimensions (H x W x D)	mm	1700 x 950 x 750	1700 x 750 x 818	
Installed dimensions (H x W x D)	mm	1700 x 886 x 1067	1700 x 886 x 935	
Weight	kg	256	239	134
Insulation (polyurethane, PUR)	mm	90	90	90
Tank volume	l	540	540	555
DHW coil volume	l	11.4	11.4	-
Max. operating pressure tank	bar	2.5	2.5	2.5
Max. operating pressure DHW coil	bar	9.0	9.0	-
DHW coil (finned)	m	2 x 18.6	2 x 18.6	-
Solar coil (finned)	m	10	10	-
DHW capacity (40°C, 22 l/min)				
Tank temperature 55°C (25 kW heat pump)	l	>600	>600	-
Tank temperature 65°C/55°C (24 kW electric power)	l	523	523	-

ENERGY FLEX

EcoZenith i550

Dimensional drawing of the CTC EcoZenith i250



1. Connection heat sources, G 1 1/4”
2. Expansion vessel, G 1 1/4”
3. Solar coil, Ø18 mm copper tails
4. Mains cold water, Ø22 mm copper tails
5. Hot water flow, Ø22 mm copper tails
6. Hot water return, Ø22 mm copper tails
7. Heating flow, 28 mm compression
8. Heating return, 28 mm compression
9. Control panel and electrical terminations (behind removable cover)

Delivery includes:

Installation and operation manual
Outdoor and room sensors
Safety valves, 9 bar (DHW) and 2.5 bar (Heating)
Drainage valve and adaptor
Primary flow and return pipe sensors
Various covers for unused outlets
Installation sleeves for unused connections
Fixing screws

Accessories:	Part Number:
Diverting valve pack	584071301
Charge pump for heat pumps 6 to 8 kW	586396303
Charge pump for heat pumps 10 to 12 kW	586396302
Charge pump for heat pumps 14 to 20 kW	586396301
External tank charging pump set	584078301
Additional pipe sensors	583742308
Flue gas sensor	913002401
CTC Connect	587581301

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Go Geothermal Ltd
Ridgeway, Newton Aycliffe
County Durham, DL5 6SP

Tel: 01388 720228
Email: sales@gogeothermal.co.uk
www.ctc-uk.com

APPROVED PRODUCT

ENERGY FLEX