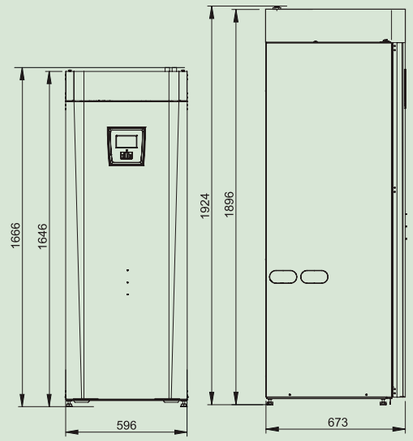
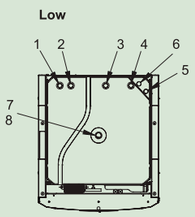
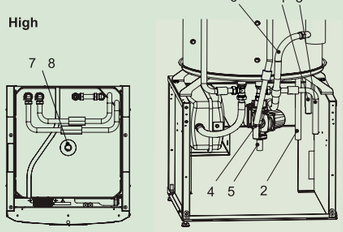
EcoZenith i350

Dimensional drawing of the CTC EcoZenith i350





1. Cold water
2. DHW
3. Return line
4. Primary flow
5. To HP
6. From HP
7. Expansion
8. Lifting sleeve



Accessories:

CTC Connect	587581301
CTC SMS Control	585518301
(GSM moden that easily plugs into the controller)	
CTC Valance 480 mm high	586463302R
(Hide pipe connections with the stylish valance)	
CTC Valance 580 mm high	586463303R
CTC Volume Tank VT80	587190301
(Detached volume tank with 4 connections 3/4")	

Part Number:

Delivery includes:

Power supply cable
Primary sensor
Kit bag containing:
- Room and outdoor sensor
- Installation and maintenance manual
- Safety valves 9 bar for DHW
- Cable ties and grommets

Enertech Group

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

EcoZenith i350

System Tank and built-in Heat Pump Control

Indoor Module with Heat Pump Control

CTC EcoZenith i350 was developed using the latest technology and has the highest hot water capacity in its class. Equipped with high efficiency water heater technology when combined with CTC EcoAir or CTC EcoPart, it can produce over 300 litres of hot water – best in its class.

The CTC EcoZenith i350 is an efficient indoor module designed to integrate with the CTC EcoAir 510M – 520M inverter driven air source heat pumps or the CTC EcoAir 406 – 408 single speed air source heat pumps. Alternatively it can be combined with the CTC EcoPart 406 – 412 ground source heat pump.

With the new and efficient insulation producing minimal energy loses and in combination with one of the CTC high efficiency variable speed air source heat pumps we can confidently present very high SCOP values.

CTC EcoZenith i350 has the same stylish white design as our geothermal heat pumps, which means that it blends into most environments. Standing at 1666mm and requiring only 1669mm of ceiling height the L version (available in 1 x 230V and 3 x 400V) will fit into the tightest space. The H version (available in 3 x 400V) allows for connections to the bottom of the unit.

Continued >>

Key features

- Highly efficient indoor module
- Controls a CTC heat pump and two weather compensated heating circuits
- Combined with the CTC EcoAir 510M or 520M produces very high SCOP
- Produces up to 300 litres of DHW safe from Legionella
- Integrates with gas, oil, wood and pellet fired boilers as well as solar panels
- Can control swimming pool heating, borehole recharging and comfort cooling
- With the CTC Connect app the system can be controlled from your smart phone or iPad via the internet or SMS

ENERGY FLEX

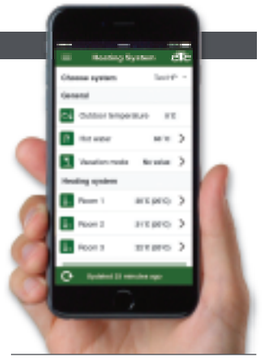
EcoZenith i350

The 4.3 inch colour touch screen controller has clear symbols making it easy to adjust the heat and hot water requirements as well as retrieve a variety of operational data. The controller will provide control for two fully weather compensated heating circuits thus ensuring comfort with minimum energy consumption.

The CTC EcoZenith i350 controller can also look after a number of other functions including DHW secondary return, solar panels, borehole recharging and swimming pool heating. In addition with CTC Internet and CTC Connect the CTC EcoZenith i350 can be controlled from your smart phone.

CTC Internet

With CTC Internet and the CTC Connect app you can monitor and control your system directly via your mobile phone. Adjustments can be made to the heating and DHW temperatures and the app will notify you if the system has shut down for any reason. CTC Connect+ can be downloaded free of charge from the App Store or Google Play.



CONNECT+

Adapt Your Product to Ceiling Height

Hide pipe connections, etc. with a stylish top cabinet, or set the product on a base in the same design. Top cabinets are available in three heights (155, 488 and 168 mm), and the base comes in one height (168 mm). They can all can be combined to fit most ceiling heights. Standard cabinet (155 mm) supplied with the product on delivery.

CTC Wireless Room Sensor

The CTC Wireless room sensor can be placed anywhere in the property (depending on signal) without running cables. Room temperature is displayed and can be adjusted as required. You can connect up to two room sensors to each EcoZenith i350.

Other Accessories

CTC SMS Control
GSM modem that easily plugs into the heat pump control.

CTC BMS/Internet
For remote, online premises control via Modbus.

CTC Volume Tank VT80
Detached volume tank with 4 connections (3/4")

CTC Mixing Valve Group EnergyFlex
For installing additional heat sources (connection 28 mm)

CTC Expansion Energyflex
External solar/pool/tank charge control

CTC Radiator Pump 25/6-130
Additional circulation pump for the system/additional heating circuit

CTC Diverting Valve, 3-way
For interconnections in the system (connection 22 mm)

CTC Extra Mixing Valve Group

Complete package for neat and easy installation of additional heating circuits. Complete and ready-to use with connected controls, which means that getting started is quick and simple. Equipped with an energy-efficient circulation pump, in accordance with the ErP Directive. Well-insulated unit with easy external access to all adjustment controls and electronic components.

TECHNICAL DATA				
Electrical Data		EcoZenith i350		
Voltage		1 x 230V	3 x 400V	
Rated power	A	9.3	12.2	
Max. Electrical element power @ Group fuse 16/20/25/32/50 A	kW	2.9 / 4.6 / 5.8 / 7.5 / 9.0	8.9 / 11.9 / 11.9 / - / -	
Electrical element power range/steps		0 – 9 / 30	0.3 – 11.9 / 31	
IP Class		IPX1	IPX1	
Other Data				
		i350L	i350L	i350H
Dimensions (H x W x D)	mm	1666 x 596 x 673	1666 x 596 x 673	1924 x 596 x 673
Minimum ceiling height	mm	1669	1669	1925
Weight / packed weight	kg	143 / 173	143 / 173	155 / 185
Water volume (Heating medium system) (V) (PED)	l	225		
Water volume (DHW system) (V) (PED)	l	1.7		
Max operating pressure (PS) (PED)	Mpa/bar	0.3 / 3.0		
Max operating pressure (water supply system) (PED)	bar	10		
Max operating temperature (TS/T) (PED)	°C	100		
Product Kvs value		2.6		
DHW Data				
DHW efficiency class/declared load profile		A/XL		
DHW capacity (40°C) (Vmax) (EU814/2013)	l	308		
Max adjustable hot water temperature	°C	65		
ErP Energy Package Ratings				
Energy class heating 35/55°C (in package with EA510M)		A+++ / A++		
Energy class heating (without package)		D		

Available in two heights: 1,666 mm / 1,924 mm

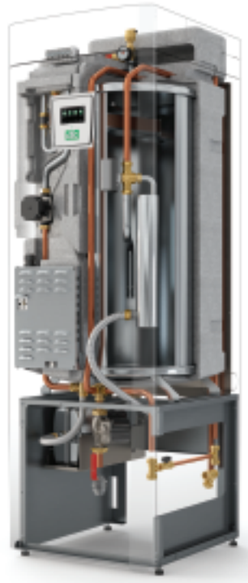
The low model has pipe connections at the top

4.3-inch colour touchscreen with built-in control for heat pump

Built-in, low-energy circulation pump for easy connection of the heat pump and heating system

Free Cooling as a cool accessory

Smart Grid as standard, i.e. ready for future electricity grids



Flow heater with an 9.0 kW capacity, which operates when needed

New and efficient insulation for minimal heat loss

EnergyFlex gives you total flexibility to Connect+ other heat sources

Can control two different heating systems

Factory-fitted Expansion Tank, Supply Cable and Primary Flow Sensor

The high model has pipe connections at the bottom