



## The heart of a wonderful new home – the Thermia Calibra Eco 8

From the very start of a project to build a wonderful new home, designed to be as modern, comfortable and efficient as possible, a top-quality heat pump was at the heart of the thinking.



With this in mind, the investor contacted an authorized installer at the design stage, even before the construction of the new house began. He needed to explore the practicalities and cost

of a really good heat pump that would maximise comfort and efficiency all year round. For this reason, an air source heat pump was integral to the initial design.



Aljaž B. – owner of the house

### **Desire for leading edge technology**

The investor wanted an efficient and economical heating system, as well as a plentiful supply of sanitary hot water. As the house was a new build, the family wanted the most up-to-date solutions that would be used for a long time and require as little maintenance as possible.

The building was designed to be low energy, so most of the year it would only need minimal power for heating. However, at certain times of year, when the weather is more extreme, with much lower outside temperatures, there was a requirement for sufficient power to generate heat and hot water quickly and efficiently.

### **The perfect solution from Thermia**

As the project progressed, the customer was unsure where to place the outdoor unit for the air source heat pump. The optimal location, which would allow the shortest possible distance to the indoor unit to maximise efficiency,

was too close to the area that was planned for a terrace. The customer had reservations about noise and blowing air, so the team reconsidered and looked at a geothermal heat pump.

The installer recommended the Thermia Calibra Eco 8 ground source heat pump with modulated heating capacity between 2 and 8 kW. The Calibra Eco is exceptionally efficient and requires hardly any maintenance. This was a better all-round solution than an air source heat pump, as, with the Calibra Eco, there is no noise, lower electricity consumption and it will last much longer, as the ground source heat collector is practically eternal.

The heat pump model and power capacity were selected to deliver against the detailed design specification for the new construction. According to calculations, a geothermal heat pump with a power of 5–6 kW was required. Capable of delivering

8 kW, the Calibra Eco 8 with inverter technology was perfect.

Taking into account the geological structure of the soil at the location of the planned house and the power required, the installer calculated the depth of the ground collector. It was then decided to oversize both the borehole and the heat pump capacity, as the borehole would only be used once in a lifetime and this would allow the customer to heat other areas of the house in the future, such as a storage room, garage or extension. The Calibra Eco 8 makes this possible.

### **Plug and play installation**

Immediately after laying the concrete screed and the floor coverings in the machinery room, the installer installed the heat pump. As all the necessary connections were already in place, the job was completed in just over a day. The installer commissioned the heat pump, checked all key parameters and made adjustments as required. The customer was also taken through the technical support procedure and shown how to control heat pump remotely. They were delighted with the end result.

## Fact Box

**Location:** Dobova in Slovenia

**Year of installation:** 2021

### **Applied solution:**

- Ground source heat pump: Thermia Calibra Eco 8
- Building insulation: low-energy new construction
- Heating system: underfloor heating

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Yasin Jodeh, Managing Director at Atlas Trading d.o.o.

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a comprehensively prepared execution plan and a complete operational test run, with all the work carefully supervised to bring the system into full operation.



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### Engineered with passion

Developing truly sustainable renewable energy solutions can only be achieved with passionate, dedicated, and uncompromising experts. Some of Europe's most highly qualified engineers can be found in our own R&D center.



### Born in Sweden

All our products are designed, manufactured, and tested in Sweden using the latest technology and the highest quality components. All components inside our ground source heat pumps are made in Europe by world-leading industry specialists.

