

Energie Solar Thermodynamic Central Heating

Product Technical Statement (v1.0, January 2019)



Product Description

An Energie central heating system consists of a Solar Block solar heat pump unit and either 6, 12, 16, 28 or 40 aluminium thermodynamic panels, which are externally mounted on the roof, wall or ground.

It can be used with underfloor heating, radiators, convectors or fan coils – underfloor heating is the most common application in New Zealand.

Energie central heating also offers the possibility of alternating between heating the home in the cooler months and swimming pool heating in the warmer months.

Power consumption ranges from 1.2kW for a 6 panel system (which will heat up to a 90m² home) to 8.4kW for a 40 panel system (which will heat up to a 450m² home).

Water in the system is heated to 55° C.

Scope of Use

The Energie central heating system is suitable for use in any type of residential building between 90m² and 450m². It is most commonly used in new builds for underfloor heating.

Limitations: With underfloor heating, retrofit is often not feasible. 55° C is not considered a high enough temperature to be used with traditional radiator systems. The thermodynamic solar panels should be mounted facing north, west or east.

Conditions

This PTS should be read in conjunction with the Energie central heating catalogue, which can be supplied by The Alternative Energy Company on request.

Evidence

The products meet the requirements set out in the following documents, or relevant parts of cited standards within the documents (available on request):

- Energie's UE Declaration of Conformity for Solar Block, 2014/35/UE; 2014/30/UE.



Company Contact Details



Brand: Energie Eco

Company: The Alternative Energy Company Ltd

Physical Address: 18 Warren Place, Mapua, Tasman 7005

Postal Address: 18 Warren Place, Mapua, Tasman 7005

Email: info@taec.co.nz

Phone: 03 540 3003

Website: www.taec.co.nz

Design, Construction and Installation Instructions

The Energie central heating system must be installed by a qualified plumber and a qualified refrigerant engineer, who must commission the system. Relevant installation documents can be supplied by The Alternative Energy Company on request.

Quality Assurance

The Energie central heating system is manufactured to the highest standards and certified under the following management systems:

- European Keymark certificate, registration # 011-7S888 F, valid until 30 June 2019.