

HARNiTEK

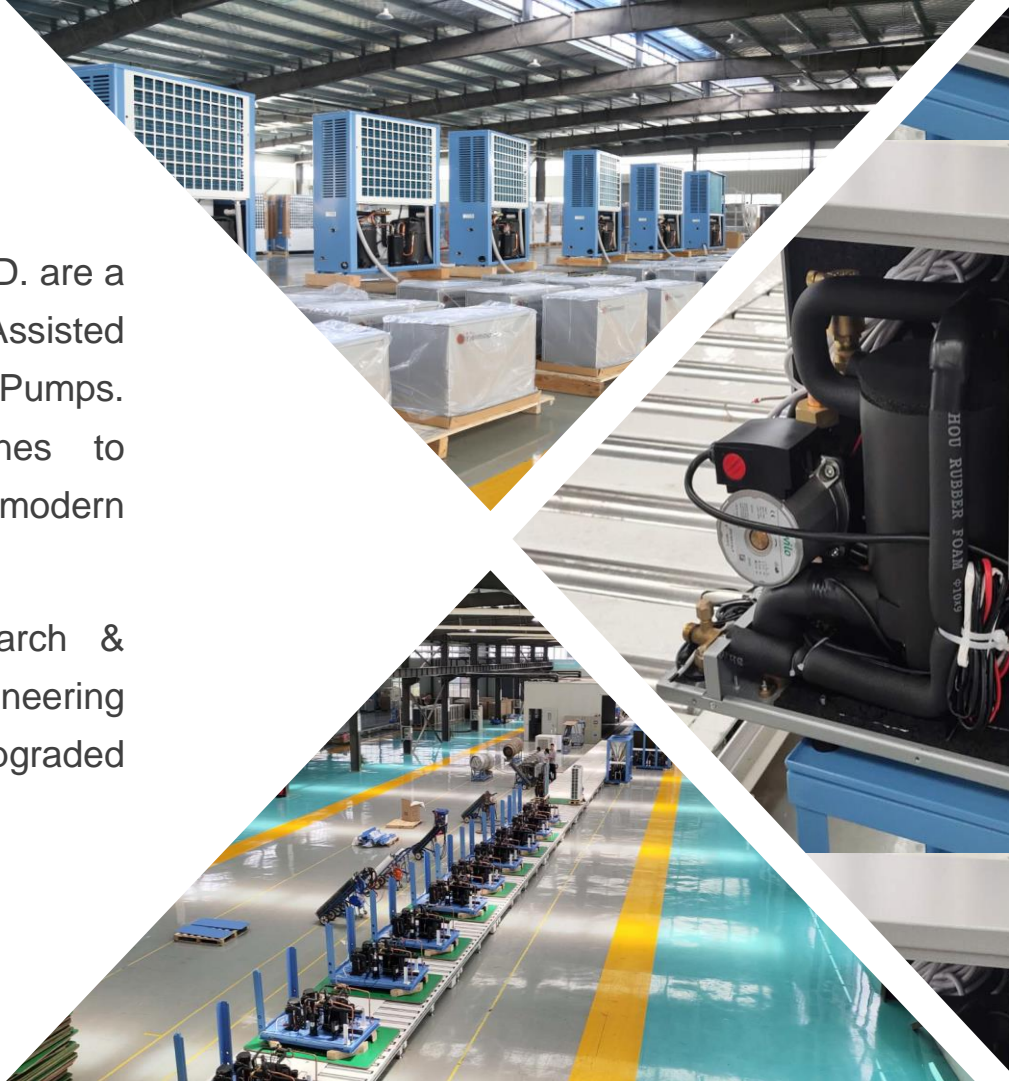
SOLAR ASSISTED HEAT PUMP



About Us

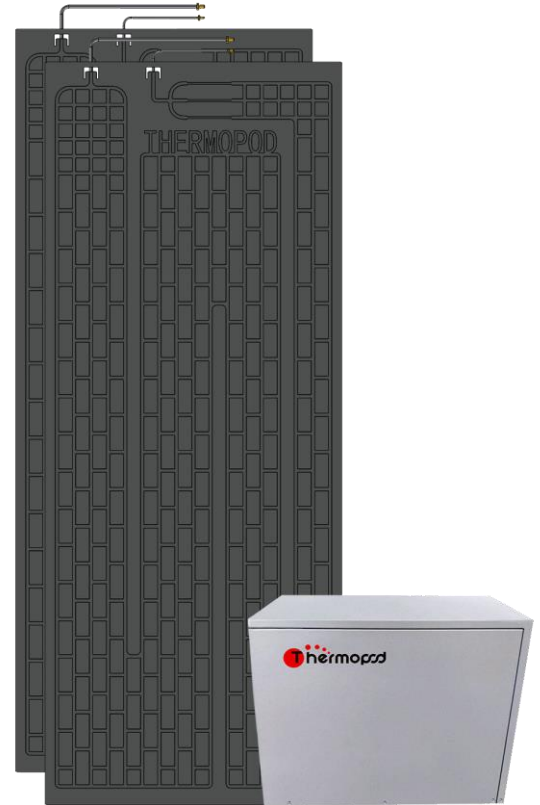
HUNAN HARNITEK TECHNOLOGY CO., LTD. are a worldwide leading manufacturer of Solar Assisted Heat pump systems and Air Source Heat Pumps. We continually evolve our product lines to incorporate the latest technologies and ultra-modern production processes.

HARNITEK has a fully dedicated Research & Development team who partner with our engineering department to design and develop the new upgraded Thermopod system.



About Us

We harness the abundant FREE energy from the atmosphere to heat hot water. The Thermopod unit is designed specifically for UK weather conditions. It can work in temperatures as low as -10°C . This is a complete hot water solution all year round. The Thermopod system is fully automatic, detecting when your cylinder temperature drops and switching back to stand-by once the temperature is recovered.





About Us

Customers have always been our focus. We continually strive to meet our customers' requirements and take suggestions from our customers, installers and distributor partners. We are quick to analyse and implement all good suggestions to keep the Thermpod development specific to customer preferences.

HARNITEK is determined to keep pushing for improvement in all areas of our product range. We are committed to listening to our customers and the global market, and pushing our R & D to increase efficiencies, incorporate new technologies and trends, and be guided by our global customers.

Powerful Thermopod Unit

Multiple thermal sources, absorbing energy from solar, air, wind and rain. This system works in all weathers, day or night no matter what the temperature.

Simple and flexible structure: easy to use, install internally or externally to any building.



Low cost, high efficiency: Low electrical usage means low-carbon footprint. Low electricity loads when heating, this system can generate 100% of your water.

Low noise, no pollution: 2 Panels are mounted outside to harvest energy, Controller is internally or externally fitted for noise reduction and easy installation..

Where does the heat come from?

Thermopod is a complete hot water solution capable of generating 100% of your hot water requirements all year round. The transfers free energy from the natural elements such air temperature, wind, rain, sunlight, or even snow.

Thermopod circulates an ozone friendly refrigerant (with a boiling point of -26°C) out to 2 externally mounted panels to transfer energy to heat your hot water cylinder. As the refrigerant works at such low temperatures the system will work in the coldest UK temperatures.

Thermopod unit is able to heat your water 24 hrs a day all year round. A default setting will keep your water at 53°C , whenever Thermopod unit detects a 5°C drop of the temperature in the cylinder temperature, it will be automatically power on and heat the water. Once the water is back to 53°C , it will return to stand-by mode.



Where does the thermopod unit fit?

Where Thermopod unit shall be installed?

Thermopod controllers are installed close to your existing or new hot water cylinder in order to limit any possible energy losses. The ideal location will be established during site survey.

Where the panels shall be installed?

Thermopod panels are mounted externally in order to be exposed to all the natural elements. Areas of high airflow are excellent. They can be installed on pitched roof, flat roof, vertical wall, or on the ground.

What about my existing heating?

Whatever your heating system is – Gas, Oil, Electric, or LPG – you can leave it in place and it can remain as a back-up to the Thermopod. Your Thermopod unit will be your primary hot water system.

Product Advantages

Thermopod is a low energy hot water system. It only requires a small electrical load to generate effective hot water. The energy used to heat the hot water comes free from the outside environment via the 2 black panels mounted externally.

The system is very quiet although not silent. The system is very powerful and capable of heating hot water in the dark, and in all the UK weather conditions. The system, once programmed, is fully automatic, and only heats the water if the cylinder temperature drops. The pump is fitted internally in the unit and all components are provided as standard with each system, meaning all components are standard for every installation.

The controller is simple to use and allows many variables for the customer to choose from. It can be installed away from the unit via a cable allowing ease of monitoring.

Thermopod has been tested for noise levels, performance and power separately, which result in ERP A rating (Energy Related Product). This is currently the highest rating available for same kind of products. Such excellent testing results in efficiency and noise levels further proved that Thermopod is a high performance renewable hot water system.



Data Sheet

THERMOPOD CONTROLLER

Cover	Cold Rolled Steel
Chassis Base	Galvanized Steel
Dual Panel Thermal Power (Max)	2690w
Consumption (Rated)	400W
Sound Level	≤41dB(A)
Power Supply	230-50 V/Hz
Operating Current (Max)	13 amps
Pre-set Water Temperature	53°C
Maximum Water Temperature	60°C
Hydraulic Connection (Inlet/Outlet)	3/4" - 3/4"
Max Operating Water Pressure	8 Bar
Operating Temperature Range	-8~+40°C
Refrigerant Connection (Inlet/Outlet)	3/8- 1/4"
Refrigerant Charge (134A)	1400g
Disinfection Cycle (Auto)	Weekly
Protection	IP21
Dimensions	500x395x270 mm
Weight (Pre-Charged)	39 Kg
Warranty	2 years

Data Sheet

THERMOPOD PANELS

Material	Aluminum
Finish	Powder Coated
Material Thickness	2mm
Height	2000mm
Width	800mm
Frame Depth	25mm
PreDiled Fixing points	6
Weight	8.9kg
Panel Design	Patent Pending
Warranty	10 years



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