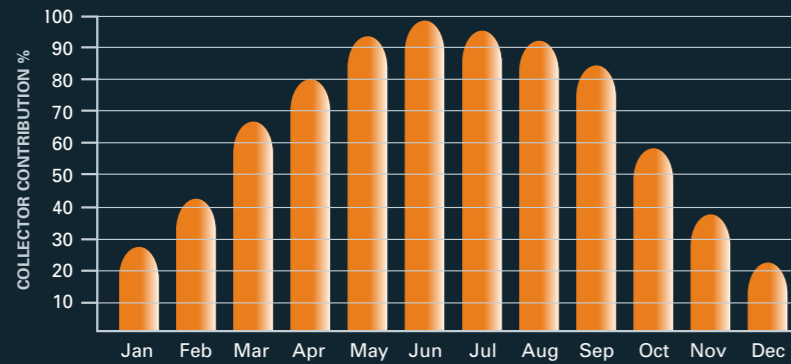


SAVINGS

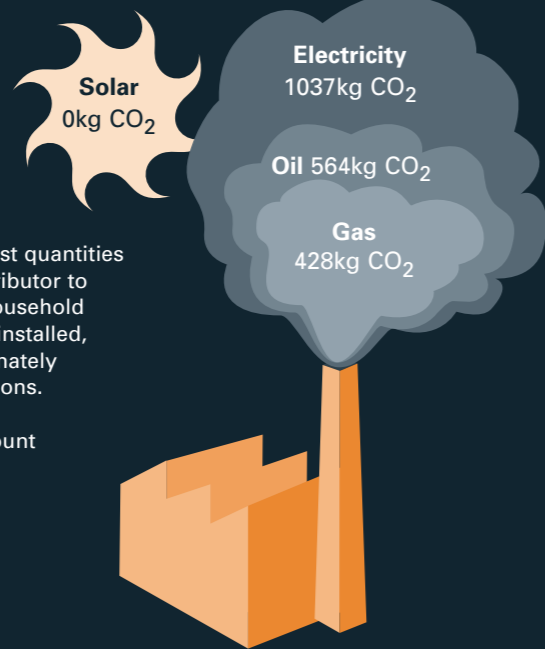
An HP200 solar system is usually sized to provide 60% of a household's annual hot water requirements. The graph below shows the typical annual solar energy contribution for London.



POSITIVE ENVIRONMENTAL IMPACT

Burning fossil fuels produces vast quantities of carbon dioxide, a major contributor to global warming. The average household with a 3m² Thermomax system installed, can expect to generate approximately 2,256 kWh/year with zero emissions.

This diagram illustrates the amount of CO₂ (kg) produced by oil, gas and electricity to generate the equivalent 2,256 kWh.



For further information on industrial or commercial applications, please ask for our reference manual or contact our technical support team at info@thermomax.co.uk

HP200

HEAT PIPE SOLAR COLLECTOR

SPECIFICATIONS

	HP200 – 2m ²	HP200 – 3m ²
Number of tubes	20	30
Dimensions (gross) [mm]	2005 x 1418 x 97	2005 x 2127 x 97
Absorber Area [m ²]	2.010	3.021
Weight (empty) [kg]	50.3	75.1
Fluid Content [Ltr]	1.1	1.7
Max. Operating Pressure [bar]	8	8
Flow Rate [l/min/tube]	0.10 - 0.25	0.10 - 0.25
Vacuum level [mbar]	10 ⁻⁵	10 ⁻⁵
Glass Specification	Low Iron Solar Glass	Low Iron Solar Glass
Efficiency (Absorber) η_0	0.792	0.778
a_1 [W/m ² K]	1.25	0.91
a_2 [W/m ² K ²]	0.0088	0.100
Heat Capacity [kJ/m ² /K]	4.3	4.2
Test/Approval (Solarkeymark)	EN12975-2	EN12975-2

THERMOMAX

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www.thermomax-group.com



HP200

HEAT PIPE SOLAR COLLECTOR

© DESIGN BY POSITIVE DESIGN CONSULTANTS

THERMOMAX
PURE POWER. LIQUID SUN.



THERMOMAX

The revolutionary Thermomax vacuum tube solar collector provides hot water in all seasons

Established over 25 years ago, Thermomax is a world leader in the design and manufacture of solar thermal vacuum tube collectors. The unique design of the collectors uses vacuum technology to ensure the most effective transfer of energy into heat. This means the Thermomax solar collector has extra performance in comparison with a traditional flat plate collector, providing heat not only in warm, sunny days, but also in cold, windy or humid conditions.

Thermomax has two hi-tech manufacturing plants in the UK - the headquarters in Bangor, Northern Ireland and a second manufacturing plant in Blackwood, South Wales.



Skilled staff combined with an ongoing research and development programme allows for consistently innovative products

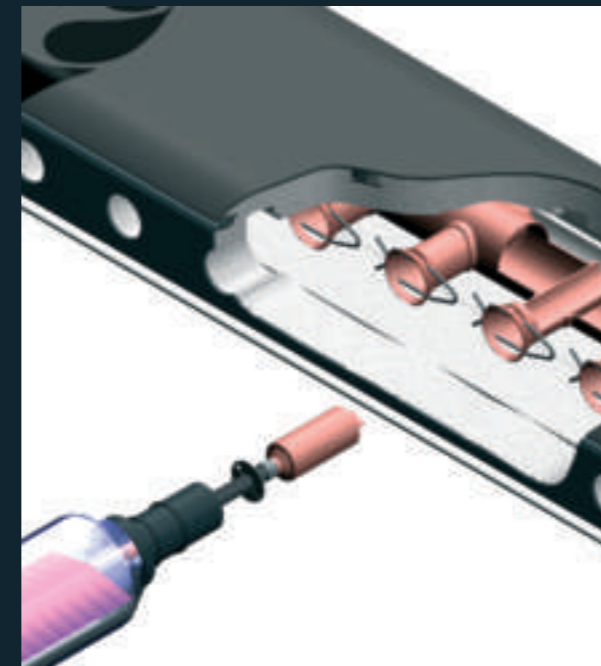
Thermomax products are reliable and durable. The Company is certified to ISO9000-2000 standard and all products have Solar Keymark approval (European Solar Industry Quality Certification).

Focus and investment in Research and Development means that Thermomax is consistently innovative. This is complemented by a highly skilled and efficient workforce, ensuring a perfect product in performance, quality and service.

High Performance Solar Collectors

HP200 TECHNOLOGY

Solar thermal technology transforms direct and diffuse solar radiation into useful heat using a solar collector



HP 200

HEAT PIPE SOLAR COLLECTOR

An HP200 is a heat pipe solar collector, which consists of a row of solar tubes and a highly insulated water manifold. The collector system consists of two separate circuits, one in each individual tube inside the heat pipe, and one through the manifold into the hot water tank. The heat pipe has a very low heat capacity but an exceptionally rapid conductivity and is therefore a highly efficient and fast heat transfer method. A heat pipe system therefore delivers outstanding performance, particularly in regions with lower annual levels of radiation. The vacuum inside each tube provides perfect insulation and therefore protects the system from outside influences such as cold and windy weather or high humidity. This vacuum insulation also ensures that the energy collected from the sun is very efficiently and effectively transferred into usable heat as there is minimal heat loss. The HP200 also has a special temperature limitation feature (for either 95° or 130°), which ensures exceptional system safety.



THERMOMAX
SOLAR CONTROL

A Thermomax control kit ensures that the hot water generated by the system is transferred to the water storage tank.

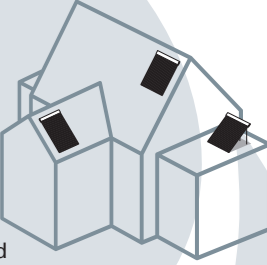
Efficient and flexible system control
Internet enabled access for control and monitoring
Automated data logging, fault analysis and alarm



Thermomax offers universal fitting for pitched surfaces

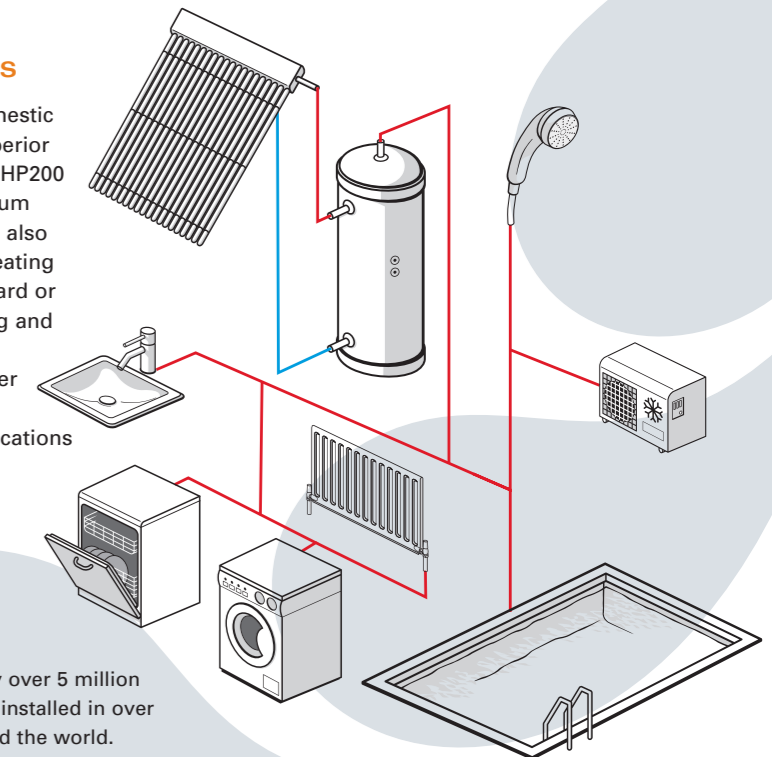
INSTALLATION

The unique plug and play design of the HP200 Thermomax solar system makes installation quick and easy. There is no need for heavy lifting equipment as tubes can be carried onto the roof individually. Usually installed facing south, the collector is fixed to the roof by easy-fit roof brackets, which are simply fixed to the rafter. The Thermomax HP200 system has the advantage that all the plumbing work can be completed and pressure tested before the tubes are inserted, as the tubes connect 'dry' to the manifold. The installation possibilities can be seen in the diagram above.



APPLICATIONS

In addition to domestic hot water, the superior performance of a HP200 Thermomax vacuum tube collector can also provide central heating support for standard or underfloor heating and more specialised industrial hot water heating for high temperature applications and solar cooling.



The low water content makes the HP200 the practical choice for larger installations.

There are currently over 5 million Thermomax tubes installed in over 40 countries around the world.