

SOLAR HEATING FOR POOLS AND SPAS

thermeco

POWERFUL, PATENTED TECHNOLOGY

ELECR
ENGINEERING



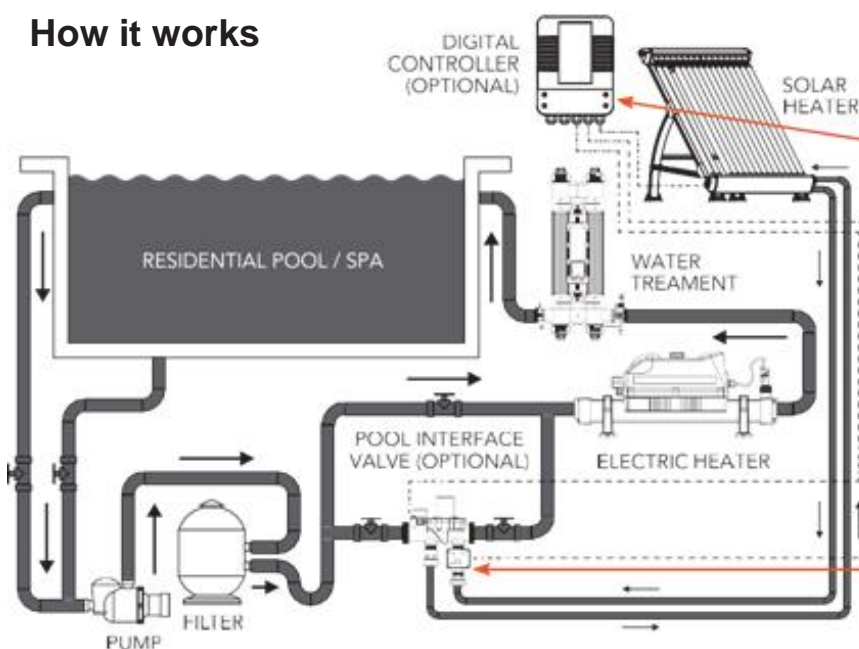
What is Thermeco?

Thermeco is a patented solar heating system that uses renewable energy from the sun and converts 92% of solar radiation that strikes it into thermal energy to heat the water of residential pools, spas and aquatic installations. Thermeco is the most cost-effective solution to maintaining the desired temperature of any small to medium sized pool and is ideally recommended as a secondary heating device. Using an electric heater, heat pump or heat exchanger as the primary heat source, the water temperature rises to the desired level, and when reached, the Thermeco system switches on, maintaining the temperature by compensating for the pool heat loss. Thermeco is sea and salt chlorinated water compatible.

Key Benefits:

- Generates far more hot water per m² than any other solar heating system
- Significantly reduces energy consumption
- Achieves significantly higher temperatures than any other solar collector
- Works by collecting solar radiation, not just direct sunlight
- Eco-Friendly, reducing carbon footprint
- Perfectly insulated so delivers hot water to your pool or spa with virtually zero losses

How it works



Digital Solar Controller



Pool Interface Valve

THERMECRO - Solar Heating for Pools and Spas

Choosing the Right Model

The Thermecro solar panel heater is the most efficient solar harvesting device on the market and is designed for easy installation into any small to medium sized swimming pool, including above-ground pools and spas.

The following table illustrates the average daily ambient temperature of 16°C and a desired water temperature of 28°C. The Thermecro will increase the water temperature by 2°C (MAX. TEMP LIFT), and is equivalent to the expected daily heat loss of a side insulated and covered pool.

MODEL	MAX. OUTPUT (kW)	POOL SIZE (AVG 1.2m) DEPTH	MAX. TEMP LIFT	MIN. OPERATION PRESSURE	SYSTEM FLOW RATE	TOTAL WEIGHT DURING OPERATION*
16 TUBE	1.5	10m ³	2°C	0.4 Bar	3m ³ /hr	72.36kg
32 TUBE	3	20m ³	2°C	0.4 Bar	3m ³ /hr	128.72kg
48 TUBE	4.5	30m ³	2°C	0.4 Bar	3m ³ /hr	167.08kg

* Complete system

Return on Investment

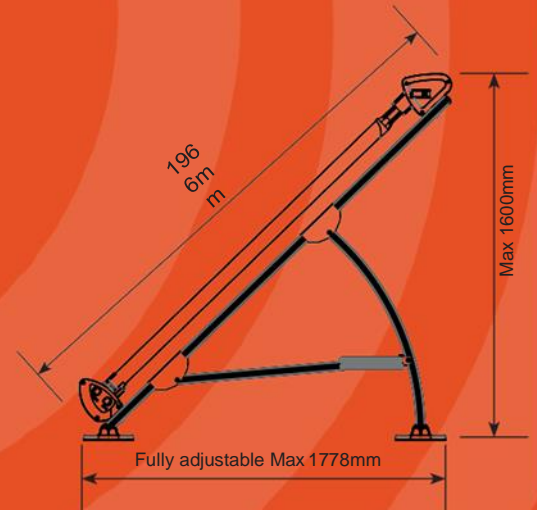
The following table illustrates the return on investment based on the average electricity cost in 2023 (Capped) and the average irradiance in London, 2020.

MODEL	POWER OUTPUT (kW)	SURFACE AREA (m ²)	AVERAGE IRRADIANCE (kW/h m ²)	AVERAGE IRRADIANCE APR-SEPT (kWh)*	AVERAGE PRICE PER kW/h (GBP)*	SAVINGS GBP (UP TO)
16 TUBE	1.5	1.61	949.57	1403.00	0.34	477.02
32 TUBE	3	3.21	949.57	2805.99	0.34	954.04
48 TUBE	4.5	4.82	949.57	4208.99	0.34	1,431.06

Sources: European Commission Photovoltaic Geographical Information System - 2020. Energy Guide Average cost of electricity per kWh - April 2023. *Based on 92% efficiency.



Dimensions



Elecro Thermecro Solar Panel Heater

DISCOUNT CODE/ PRODUCT CODE	DESCRIPTION	PRICE
Q SRC-16	16 Tube Solar Heater Complete System - PVC Pipework not included	£1,893.52
Q SRC-32	32 Tube Solar Heater Complete System - PVC Pipework not included	£2,926.67
Q SRC-48	48 Tube Solar Heater Complete System - PVC Pipework not included	£3,940.23
Array Only		
Q SR-AO-16	16 Tube Solar Heater Complete System - Array Only	£1,179.79
Q SR-AO-32	32 Tube Solar Heater Complete System - Array Only	£2,212.91
Q SR-AO-48	48 Tube Solar Heater Complete System - Array Only	£3,226.50
Individual Parts		
Q SR-PEX	PEX/HDPE Pipe Plumbing Kit Complete (ittings & 25m/30m PEX pipe)	£256.53
Q SR-PP	PEX/HDPE Pipe 25m/30m	£153.18
Q SR-PEX-FO	Fittings for PEX Pipe	£103.37
Q SR-PIV	Pool Filtration Pipework Interface Valve	£161.60
Q SR-DC	Digital Heater Solar Controller	£185.22
Q SR-ALK	Solar Rig Adjustable Leg Kit	£387.01

All prices shown are excluding VAT