

TITANIUM

Range of heaters using TITANIUM elements.

Size range from 3kW to 120kW

Built using Titanium elements, to the same exacting standards traditionally associated with Thermalec® heaters, the THR TITANIUM range fulfils all the required electrical safety standards.



Original features:

- Unique spiral flow allows efficient heat removal from the elements, minimising the scale and sediment build up.
- Unique design ensures cooler water from the filter pump does not strike the elements direct (giving longer life).
- Air generated from the pump passes harmlessly around the sides of the baffles and across the top of the heater elements (heat pumps heat both air and water).
- The control thermostat is positioned to sense the incoming water temperature and controls the pool to within 1°C. (Analog or digital controller available.)
- The safety thermostat senses the water temperature leaving the heater.
- Thermalec® heaters can be used in conjunction with other heating systems to provide year round heating solutions for your pool or spa.
- Each heater is designed with its own simple self diagnostic system.
- Heating elements always submerged.

The heaters in the Thermalec® pool and spa heater range are classified in series according to the body size. There are six series in the range. Each series offers a choice of nominal power rating. The following tables summarise the main features of the range and power ratings available in each series.

Feature	Series Reference				
	12THR	24THR	36THR	72THR	120THR
Body in robust fusion epoxy coated cast iron	●	●	●	●	●
Elements in corrosion resistant Titanium	●	●	●	●	●
Suitable for sea and salt water pools and spas	●	●	●	●	●
Pressure: tested to 4 bar, operating 2 bar max.	●	●	●	●	●
Safety pressure relief valve(s)	●	●	●	●	●
Easy installation – uPVC solvent weld sockets	●	●	●	●	●
Easy element replacement	●	●	●	●	●
Water drain for winterisation or repair	●	●	●	●	●
Removable top plate for easy vessel inspection	●	●	●	●	●
Water flow direction easy to reverse	●	●	●	●	●
Premium quality electrical components	●	●	●	●	●
Heavy duty contactors	●	●	●	●	●
Power isolation ON/OFF switch	●				
Power isolation circuit breakers		●	●	●	●
Filter pump safety interlock	●	●	●	●	●
Fused control circuit protection	●	●	●	●	●
Liquid filled capillary control and safety thermostats	●	●	●	●	●
Two stage temperature controller				●	●
Time delay switch powers elements in 2 stages				●	
Time delay switch powers elements in 3 stages					●
At least 6 indicator lamps to monitor operation	●	●	●	●	●
Analogue heater outlet water temperature indicator		●	●	●	●
Over-temperature safety trip with manual reset	●	●	●	●	●
Protection in the event of pool filter pump failure	●	●	●	●	●
Special design enclosure for spa applications	●				
Enhanced "Deluxe" model available		○	○		
Suitable for fish pond and aquarium use	○	○	○	○	○
Special models available for marine, central heating & renewable energy applications	○	○	○	○	○
Available for non-standard power supplies	○	○	○	○	○
CE Mark - compliant with all relevant EU Directives	●	●	●	●	●
Two year return-to-base guarantee	●	●	●	●	●

● Standard feature

○ Available as an option

Power ratings of Thermalec® heater standard models

Standard Models - Installed nominal power rating (kW)*

Series Ref	3	4	6	7.5	8	9	10	12	15	16	18	21	24	30	36	48	60	72	84	96	108	120	
12THR	■	■	■	■		■	■	■															
24THR									■		■	■	■										
36THR														■	■								
72THR																■	■	■					
120THR																			■	■	■	■	■

Single phase power supply only. ■ Single or three phase power supply. ■ Three phase power supply only. ■

*based on standard power supply 230V/1 ph/50Hz or 400V/3ph/50Hz

More detail and technical data may be found in the Thermalec® pool and spa heater information sheets. A review of the criteria affecting the choice of energy source and guidance on pool electric heater sizing are also available in our Thermalec® heater selection information sheet.

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The above specifications and descriptions may vary as a result of continuous technical improvement. Please contact Thermalec for further details.