



# ELECRO

## ENGINEERING

Pool & Spa Heaters | Water Treatment | Heat Exchangers

3 Year Warranty  
on all Elecro  
Products



### Product Overview

[www.elecro.co.uk](http://www.elecro.co.uk)

[www.aqua-mania.org](http://www.aqua-mania.org) - [info@aqua-mania.org](mailto:info@aqua-mania.org) - +34 609934211



## Quantum

Hygienic, sterile pool water that sparkles like diamonds in a way you've never seen before

- Combined Photocatalytic and Hydroxyl Radical technology; most powerful, proven sterilising oxidiser
- Two power options:
  - 55 Watts for flow rates up to 14m<sup>3</sup>/hour [65m<sup>3</sup> pool volume]
  - 110 Watts for flow rates up to 28m<sup>3</sup>/hour [130m<sup>3</sup> pool volume]
- The **only** technology available the ability to instantly destroy all viruses, bacteria and pathogens
- Ensures a significant reduction in residual chemical consumption
- Reaction is contained within the chamber releasing only pure, fresh water
- Comes pre-assembled with all necessary sensors and control components
- Ultimate sterilisation without compromise to health; eliminates sore eyes, itchy skin, discoloured hair, strong odours whilst creating no risk to the health of pool users
- All Quantum units are supplied complete with flow switch and the choice of:
  - Lamp life indicator [long-life 14,000 hour lamps] and reset switch
  - Digital lamp life countdown and peristaltic dosing pump



### THE SCIENCE

- Quantum uses Nano Crystal technology to generate sterilising oxidants by photocatalytic reaction, whilst also altering the water to form Hydroxyl Radicals [nature's own technique for sterilising our planet and making it habitable]
- Brand new technology brought to the swimming pool industry with the benefit of being used and approved by high profile industries such as hospitals and drinking water purification companies



## Spectrum Hybrid UV + HO

- Two power options:
  - 55 Watts for flow rates up to 12m<sup>3</sup>/hour [50m<sup>3</sup> pool volume]
  - 110 Watts for flow rates up to 24m<sup>3</sup>/hour [100m<sup>3</sup> pool volume]
- Polished titanium reaction chamber produces Hydroxyl Radical oxidisers, and increases the sterilising efficiency by up to 45% compared to traditional UV's
- Destroys micro-organisms such as bacteria, viruses, chloramines and pathogens, and provides a safe swimming environment in clear water
- Costs no more than a common light bulb
- Salt and sea water compatible
- Reduces chemical requirement
- All Spectrum Hybrid units are supplied complete with flow switch and the choice of:
  - 9,000 hour lamp life indicator and reset switch
  - Digital lamp life countdown and peristaltic dosing pump



## SOLAR HEATER

### Thermecro Solar Heater

- Specifically designed for pools and spas
- Evacuated, cylindrical tubes using patented technology to absorb direct, diffused and reflected light and retain heat
- Extremely effective at harvesting 92% of available solar energy
- Eco friendly solution: zero CO<sup>2</sup> emissions
- Significant savings on energy bills
- Simple installation; easily retro fitted to any existing system
- Supplied with pipe work installation kit and easy to use controller
- Space saving, compact design ensures maximum output from the smallest possible footprint
- Adjustable frame allows for the optimum angle of inclination to the sun
- Low maintenance
- Compared to existing solar products, Thermecro is highly efficient at retaining heat ensuring minimal heat loss to provide ultimate efficiency



## SPA HEATER

### Nano Spa Heater

- 6 power options 1-kW to 6-kW
- Designed for all spas and hot tubs
- Corrosion resistant titanium heating element; optional titanium flow tube
- Compact design
- Customisable controls - produced to your requirements;
  - Accuracy to 1°C with analogue control [0-45°C]
  - The flow switch allows safe operations as low as 1,000 litres per hour
  - Thermal safety cut out at 60°C [manual reset]
  - Pre-fitted NTC or PTC temperature detection probe
  - Contactor relay
  - Control circuit output cable for easy integration into existing spa control panel
- 99.9% operational efficiency



## All Elecra Electric Heaters offer:

- Titanium heating elements as standard, with zero corrosion guarantee
- Salt water compatible
- 99.9% operational efficiency throughout extensive product life
- Silent operation
- Robust and durable
- No maintenance required
- High quality design, built in the UK, to provide reliable and long-lasting products

### Nano Splasher

- 2 power options 2-kW or 3-kW
- Ideal for all small pools or as a back-up for a heat pump or solar device
- Easy installation, supplied complete with all controls and fitted with a choice of UK or Euro Plug
- Simply 'plug and play'
- Safety cut-out automatically shuts off heater in the unlikely event of overheating
- Analogue control thermostat

Ideal heater for heat pump top up/back up



### Evolution (EVO)

- 8 power options 3-kW to 24-kW
- For residential and small commercial pools and spas
- *Schneider Electric* contactor
- Analogue control thermostat
- Flow switch automatically shuts off heater when there is no water flow
- Safety cut-out automatically shuts off heater in the unlikely event of overheating
- Floor or wall mountable



### Optima Compact

- 8 power options 3-kW to 24-kW
- For residential and small commercial pools
- BMS [Building Management System] integration ready
- Touch screen 'set and forget' display
- Featuring "Priority of Heating," which interfaces with pool circulation pump ensuring that pool temperature is continuously maintained
- Programmable time clock
- Flow switch automatically shuts off when there is no water flow
- Two *Schneider Electric* contactors
- Also available in analogue format
- Safety cut-out automatically shuts off heater in the unlikely event of overheating



### Titan Optima

- 10 power options 18-kW to 120-kW
- For commercial and large domestic pools
- Compact design with high power output
- Two *Schneider Electric* contactors per heating element bank
- Digital control with soft-start for power supply protection
- Flow switch automatically shuts off heater when there is no water flow
- Safety cut-out automatically shuts off heater in the unlikely event of overheating
- Floor or vertically wall mounted with bracket supplied



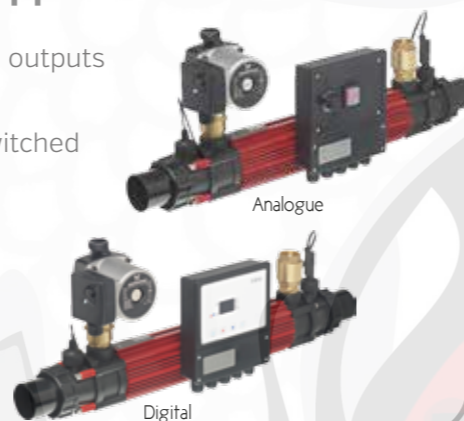
## G2 Multi Tubular

- 4 Models 30-kW to 122-kW
- For residential and small commercial applications
- Titanium tube bundle- sea water compatible
- Compact design ensures close contact with primary heated water for ultimate efficiency
- Fully thermally insulated primary and secondary circuit
- Huge heat transfer area for fast start up and efficiency
- Very effective with low hot water temperatures such as solar or heat pump



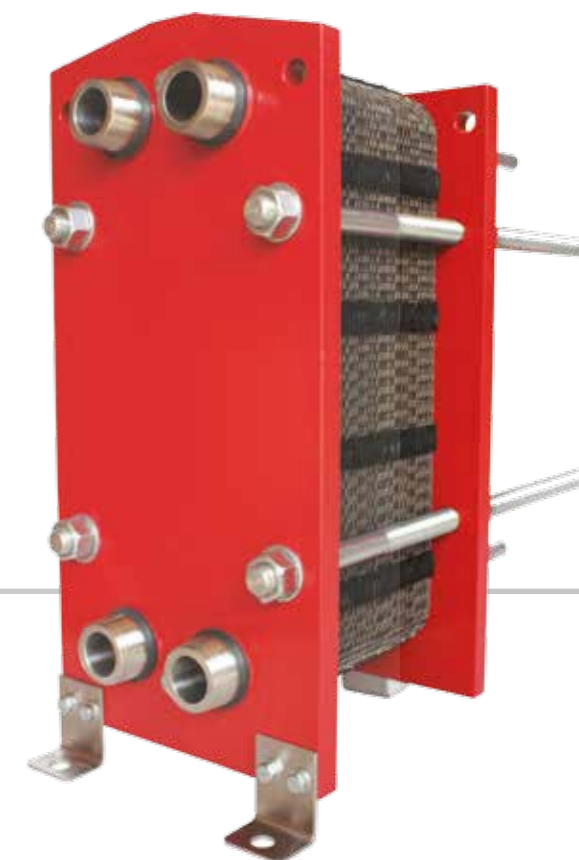
### Optional G2 Analogue or Digital Fully Equipped Kits

- Easily added to control any heat exchanger; suitable for all outputs
- Grundfos booster pump
- Flow switch ensures that your heating appliance is only switched on when the pool circulation pump is running
- Choice of digital or analogue control
  - Digital version interfaces with pool circulation pump ensuring pool temperature is continuously maintained



## Plate Heat Exchanger

- Heat output 100-kW to 3-MW
- For commercial and domestic pools
- Titanium plates as standard - sea water compatible
- High overall heat transfer coefficient
- High performance with low hold-up volume
- Versatile, modular design
- Compact design gives maximum volume without compromising mechanical robustness
- Short lead-time custom build service



## Escalade Fully Welded All Titanium

- 3 Models 30-kW to 75-kW
- For residential and small commercial applications
- Fully welded, corrosion-resistant titanium
- Sea water compatible
- 30 bar pressure tolerance
- High efficiency - primary tube is fully immersed in the secondary chamber fluid
- Integral thermostat pocket
- Floor or wall mountable

Designed for demanding chemical applications



## Shell & Spiral Tube (SST)

- 4 Models from 36-kW to 95-kW
- For residential and small commercial applications
- 30 bar pressure tolerance
- Easy to install
- High efficiency – titanium spiral coil is fully immersed in the secondary chamber fluid
- Salt water compatible
- Integral thermostat pocket
- Floor or wall mountable





# AQUA MANIA

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ENGINEERING

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