



## ELECRON IN-LINE+

### Swimming Pool Heater

### with Ultra Efficient Titanium Heating Elements

### 3-kW to 24-kW

#### Features

- Robust, durable construction
- Can be safely used on both low & high flowrate systems
- Multiple Safety features
- Digital control for increased accuracy, featuring 'Priority Heating' filtration pump control
- Corrosion resistant titanium heating elements
- BS 316 Stainless Steel flowtube
- 'Straight Flow' design for ease of installation, lower pressure drop, higher flow
- Ultra-reliable digital flow signal, no pump interlock required
- Simple operation
- Floor or wall mountable
- Safety thermal cut-out (manual reset)
- 3 years conditional warranty

#### Construction

The Elecro IN-LINE+ pool heater is manufactured from top quality components and materials at the Elecro works in Hertfordshire, England. It is based on the tried and tested Elecro Evolution swimming pool heater, with numerous enhancements.

Construction consists of a BS 316 Stainless Steel flow tube which is fitted with Inlet and Outlet mouldings manufactured from specially formulated polymer alloy material. Spiral wound titanium heating elements provide a 'Vortex' water flow, these are positioned equidistantly along the flow tube providing ultra efficient performance, the 'Low watts density' of these elements guarantees extended life and reliability. The outlet moulding accommodates a reversible flow switch, sending a digital signal to the control board.

The heater is supported on two swivel feet, these can swivel to facilitate either wall or floor mounting. The LCD display, indicator lights and keypad are positioned on the front face of the casing. The water inlet and outlet fittings can facilitate connection to either metric or imperial standard pipe. The inlet moulding has been designed to ensure full immersion of the elements, greatly reducing the risks of air locking.

#### Operation

The desired pool temperature can be easily input into the digital controller using the keypad. The actual and required pool temperatures are displayed on the LCD screen. The IN-LINE+ also features a Priority of Heating facility, this is a function that ensures that the pool water temperature is constantly maintained. When Priority of heating is activated, the control system monitors the pool temperature and starts both the pool circulation pump and heating process if necessary. The heater is supplied with a plug in cable to allow connection to an external filtration pump timer / contactor.

The single or three-phase power is switched via an integral *Schneider* contactor. Safety and equipment protection is provided by the highly reliable flow switch. Over-temperature protection is provided by the manual reset safety thermal cut-out switch.



## Specification & Models

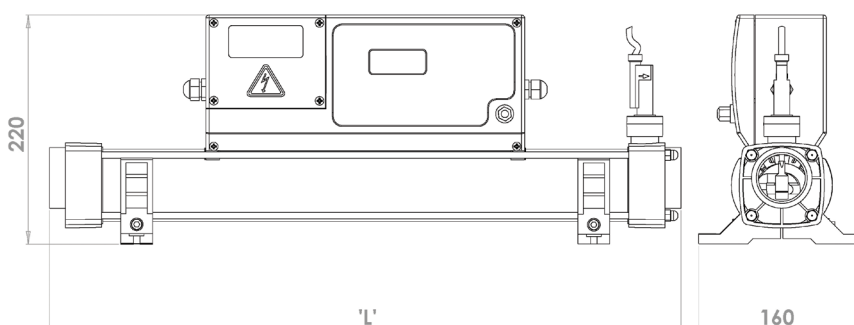
<b>Power supply:</b>	230V single phase or 400V/230V three phase
<b>Flow requirements:</b>	Minimum flow: 3-kW to 6-kW = 1m <sup>3</sup> /h 9-kW to 24-kW = 4m <sup>3</sup> /h Maximum flow = 17m <sup>3</sup> /h
<b>Heating Elements:</b>	Titanium, high MgO compaction
<b>Flow tube:</b>	BS 316 Stainless Steel
<b>Control thermostat:</b>	0°C >40°C (0.5°C differential)
<b>Safety thermal cut-out:</b>	55°C (manual reset)
<b>Flow switch:</b>	Gold tipped reed switch with titanium fulcrum pin
<b>Wiring:</b>	High temperature, silicone sheathed, multi-strand copper conductors
<b>Contactors:</b>	<i>Schneider</i>
<b>Seals:</b>	High temperature special formula EPDM,
<b>Working pressure:</b>	4 barg maximum
<b>Water connections:</b>	1.5" BSP supplied with 1½" to 50mm ABS unions
<b>Mounting:</b>	Floor or wall mounting
<b>Standards compliance:</b>	European Electromagnetic Compatibility directive 89/336/EEC and 93/068/EEC
<b>Harmonised Standards:</b>	EN 55014 – EN55104, EN 5501, EN 5502, CEI 801-4, CEI 801-2, CEI 801-3 The European Low Voltage Directive 72/23/EEC The Harmonised Standard EN 60335-2-35

230V 1 Phase Power Output	Load	Product Code	Dimension 'L'
3-kW	13-Amp	8T83D	462-mm
4.5-kW	20-Amp	8T84D	462-mm
6-kW	27-Amp	8T86D	462-mm
9-kW	40-Amp	8T89D	462-mm
12-kW	52-Amp	8T8AD	462-mm
15-kW	66-Amp	8T8BD	592-mm
18-kW	79-Amp	8T8CD	592-mm

400V 3 Phase Power Output	Load	Product Code	Dimension 'L'
6-kW	9-Amp	8T36DV	592-mm
9-kW	13-Amp	8T39DV	592-mm
12-kW	18-Amp	8T3ADV	592-mm
15-kW	22-Amp	8T3BD	592-mm
18-kW	26-Amp	8T3CD	592-mm
24-kW	35-Amp	8T3DD	592-mm

230V 3 Phase Power Output	Load	Product Code	Dimension 'L'
6-kW	15-Amp	8T36D-DELTA	592-mm
9-kW	23-Amp	8T39D-DELTA	592-mm
12-kW	30-Amp	8T3AD-DELTA	592-mm

## Dimensions



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

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