

## ELECRO Heat Exchangers

Fully Equipped with Analogue Control  
25-kW - 100-kW

### Features

- Fully equipped heat exchanger
- Robust, durable construction
- Titanium tube bundle
- BS 316 Stainless Steel shell with special polyamide fittings
- May be floor or wall mounted
- Analogue Thermostat Control
- Volt-free contact for heating appliance control

### Construction

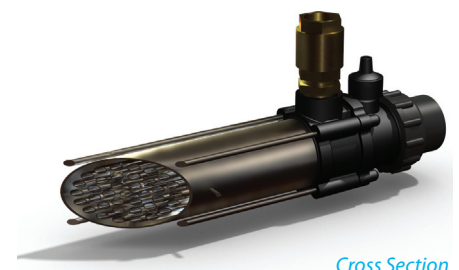
The Elecro swimming pool heat exchanger is manufactured from top quality components and materials at the Elecro works in Hertfordshire, England.

The heat exchanger construction consists of a densely populated multi-tubular pure titanium tube bundle which is secured by the uniquely designed polyamide / rubber tube sheet. The heat exchanger shell is constructed from BS 316 Stainless Steel this is capped at each end with primary and secondary moulded fittings manufactured from specially formulated polymer alloy material.

The heat exchanger is supported on two swivel feet; to facilitate either wall or floor mounting.

The fully equipped heat exchanger is supplied complete with:

- Grundfos booster pump.
- 2 x 1" male/male Brass Primary connections
- 1 x 1" Non-Return Valve
- 1 x 1" female / female brass connection
- Analogue thermostat
- Titanium thermostat pocket
- Flow Switch (With gold tipped read switch)



Cross Section

The Elecro fully equipped heat exchanger has been designed to allow the installation engineer to select which way to plumb the primary and secondary water to achieve maximum thermal gain, this is achieved by routing the primary (HOT) flow in an opposing direction to the secondary (POOL) water.



## Operation

The required pool temperature can be easily selected by rotating the thermostat dial to the required temperature. When the incoming pool water reaches the desired temperature the thermostat switches the booster pump and heating appliance off. The booster pump and heating appliance is switched back on if the pool water temperature falls below the required temperature.

A volt-free contact is supplied. This can be wired to the heating appliance to switch it on and off.

Electro heat exchangers are ideal for use with gas or oil fired boiler circuits, solar panels, heat pumps or chillers.

## Specification & Models

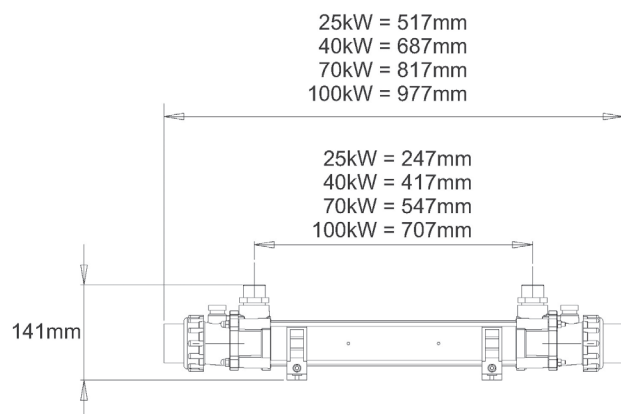
<b>Tube bundle:</b>	Pure titanium
<b>Flow switch:</b>	Gold tipped reed switch with titanium fulcrum pin
<b>Water connections:</b>	Pool water – 1.5" or 50 mm NB adapters for connection of PVC or ABS pipe
<b>Heating circuit:</b>	1" BSP
<b>Working pressure:</b>	4 barg maximum
<b>Mounting:</b>	Wall or Floor Mounting
<b>Standards compliance:</b>	European Electromagnetic Compatibility directive 89/336/EEC and 93/068/EEC

Product Code	Primary (HOT) Flow (m <sup>3</sup> )	Primary (HOT) Head Loss (kPa)	Secondary (POOL) Flow (m <sup>3</sup> )	Secondary (POOL) Head Loss (m <sup>3</sup> )	ΔT 15°C (kW)	ΔT 20°C (kW)	ΔT 30°C (kW)	ΔT 40°C (kW)	ΔT 50°C (kW)	ΔT 60°C (kW)	ΔT 70°C (kW)
EHE25TA	0.7	1.4	10	5	N/A	7	11.7	16.2	20.4	25.1	29.5
EHE25TA	0.9	1.7	10	5	N/A	8.7	14	19.5	24.5	30.4	35.5
EHE25TA	1.3	2.3	14	7	6.4	9.9	16.3	22.7	28.6	35.1	41.4
EHE40TA	1.4	2.8	16	9.2	7.3	11.3	18.7	26	32.6	40.7	47.3
EHE40TA	1.8	3.1	16	9.2	8.4	13	21.5	29.9	37.6	46	54.4
EHE40TA	2.2	4	17	9.8	10	15.6	25.7	35.7	44.9	55.2	65
EHE70TA	2.4	5.2	17	10.6	11.1	16.9	28	39.2	49	60	70.8
EHE70TA	2.7	5.8	17	10.6	13	20.1	33.1	46.2	58	71.1	84
EHE70TA	3.1	6.7	17	10.6	13.9	21.5	35.5	49.3	62.1	76.6	89.9
EHE100TA	3.3	7.4	19	12.6	16.1	24.5	49.6	55.2	71.1	87.1	103.1
EHE100TA	4.1	10.2	19	12.6	19.6	30	52.3	69.5	86.6	106.4	125.9
EHE100TA	4.7	12	19	12.6	21.5	32.7	54.1	75.8	94.7	115	137.3

▲T = Temperature difference between Primary (HOT) and Secondary (POOL)

Product Code	Standard Power Output
EHE25TA	25-kW
EHE40TA	40-kW
EHE70TA	70-kW
EHE100TA	100-kW

## Dimensions



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

**ELECR**  
ENGINEERING

11 Gunnels Wood Park  
Stevenage  
Hertfordshire  
SG1 2BH  
United Kingdom  
t: +44 (0) 1438 749 474  
f: +44 (0) 1438 361 329  
e: [info@elecro.co.uk](mailto:info@elecro.co.uk)