

Electro Swimming Pool Heat Exchangers

The Swimming Pool Heating Specialist

Multi-tube Heat exchangers

25 to 100 kW

Elecro multi-tube heat exchangers have been designed specifically for the heating or cooling of all types of outdoor or indoor swimming pools. They are ideal for use with gas or oil fired boilers, solar panels or heat pumps and chillers.

The Elecro heat exchanger is installed in the filtration circuit from which water passes through the tube side of the exchanger. Water from the primary heating circuit flows countercurrent through the shell side of the exchanger, heating the swimming pool water

All models have 316L stainless steel shells and a choice of 316 stainless steel or titanium tube bundles for maximum protection when used with salt water pools. Optionally, the exchangers can be supplied with fitted heating circuit pump, flow switch, non return valve and analogue or digital control.

Tube bundles

Tubes are in BS316 stainless steel or pure titanium for maximum salt water resistance

Shell materials

Shell is constructed in BS316 stainless steel and polyamide.

Cleaning

The exchanger is easy to dismantle for cleaning

Pressure rating

Maximum service pressure: 3 bar

Connection and fixing

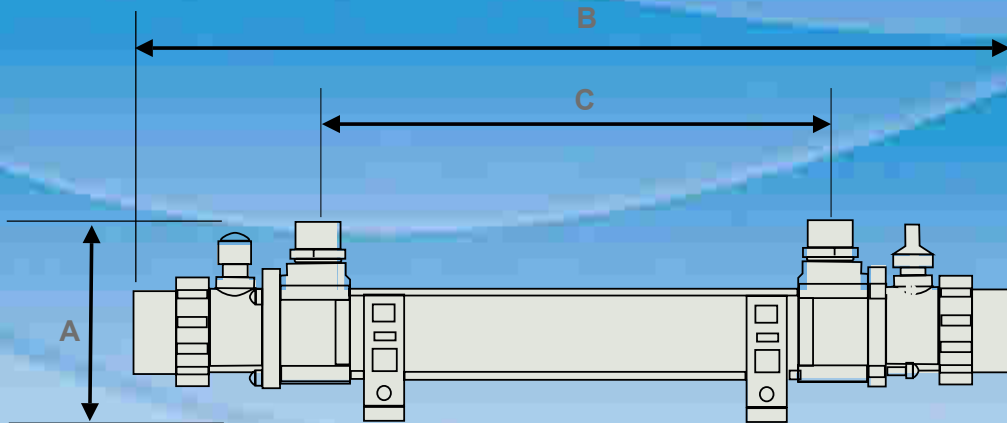
Multi-position floor/wall mounting brackets, solvent weld unions and thermo-pocket are included



Heat Exchanger Performance Data

| Product Code | Primary flowrate (m ³ /h) | Shell side head loss (kPa) | Secondary flowrate (m ³ /h) | Tube side head loss (kPa) | Heat Transfer Rates (kW) | | | | | | |
|--------------|--------------------------------------|----------------------------|--|---------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| | | | | | $\Delta t = 15^{\circ}\text{C}$ | $\Delta t = 20^{\circ}\text{C}$ | $\Delta t = 30^{\circ}\text{C}$ | $\Delta t = 40^{\circ}\text{C}$ | $\Delta t = 50^{\circ}\text{C}$ | $\Delta t = 60^{\circ}\text{C}$ | $\Delta t = 70^{\circ}\text{C}$ |
| EHE25 | 0.7 | 1.4 | 10 | 5.0 | N/A | 7.0 | 11.7 | 16.2 | 20.4 | 25.1 | 29.5 |
| EHE25 | 0.9 | 1.7 | 10 | 5.0 | N/A | 8.7 | 14.0 | 19.5 | 24.5 | 30.4 | 35.5 |
| EHE25 | 1.3 | 2.3 | 14 | 7.0 | 6.4 | 9.9 | 16.3 | 22.7 | 28.6 | 35.1 | 41.4 |
| EHE40 | 1.4 | 2.8 | 16 | 9.2 | 7.3 | 11.3 | 18.7 | 26.0 | 32.6 | 40.7 | 47.3 |
| EHE40 | 1.8 | 3.1 | 16 | 9.2 | 8.4 | 13.0 | 21.5 | 29.9 | 37.6 | 46.0 | 54.4 |
| EHE40 | 2.2 | 4.0 | 17 | 9.8 | 10.0 | 15.6 | 25.7 | 35.7 | 44.9 | 55.2 | 65.0 |
| EHE70 | 2.4 | 5.2 | 17 | 10.6 | 11.1 | 16.9 | 28.0 | 39.2 | 49.0 | 60.0 | 70.8 |
| EHE70 | 2.7 | 5.8 | 17 | 10.6 | 13.0 | 20.1 | 33.1 | 46.2 | 58.0 | 71.1 | 84.0 |
| EHE70 | 3.1 | 6.7 | 17 | 10.6 | 13.9 | 21.5 | 35.5 | 49.3 | 62.1 | 76.6 | 89.9 |
| EHE120 | 3.3 | 7.4 | 19 | 12.6 | 16.1 | 24.5 | 49.6 | 55.2 | 71.1 | 87.1 | 103.1 |
| EHE120 | 4.1 | 10.2 | 19 | 12.6 | 19.6 | 30.0 | 49.5 | 69.5 | 86.6 | 106.4 | 125.9 |
| EHE120 | 4.7 | 12.0 | 19 | 12.6 | 21.6 | 32.7 | 54.1 | 75.8 | 94.7 | 115.0 | 137.3 |

Δt = temperature difference between primary (hot) water and secondary (pool) water.



| Product Code | Main Dimensions (mm) | | | Weight | Connections | |
|--------------|----------------------|-----|-----|--------|-------------|-----------|
| | A | B | C | | Primary | Secondary |
| EHE25 | 141 | 517 | 247 | 2 kg | 26/34 mm | 50 mm |
| EHE40 | 141 | 687 | 417 | 3 kg | 1" BSP | 1.5" |
| EHE70 | 141 | 817 | 547 | 4 kg | (m) | |
| EHE120 | 141 | 977 | 707 | 5 kg | | |

Fully Equipped Heat Exchangers

| | Power (kW) | Control type | Product number |
|--|------------|--------------|----------------|
| | 25 | Digital | EHE25TD |
| | 40 | Digital | EHE40TD |
| | 70 | Digital | EHE70TD |
| | 100 | Digital | EHE100TD |
| | 25 | Analogue | EHE25TA |
| | 40 | Analogue | EHE40TA |
| | 70 | Analogue | EHE70TA |
| | 100 | Analogue | EHE100TA |

Fully equipped heat exchanger sets comprise heat exchanger, flow switch, non-return valve, temperature sensor and Grundfos heating circuit pump. Sets may be purchased without the pump. For stainless tubes, replace TD and TA by SD and SA, respectively.

Electro is Europe's market leading manufacturer of Electric heaters and Heat Exchangers for swimming pools.

All of our products are proudly designed and built to exacting specifications in Hertfordshire, England. We use only the highest quality available materials and components.

Electro swimming pool heaters and heat exchangers have quickly earned a reputation for excellence and are now widely recognised as a benchmark for quality.

Safety

Electro equipment is designed with several unique safety features that work together to provide unparalleled safety in operation.

Quality

Electro Heaters and heat exchangers are built using the highest quality materials and components at our modern production facilities in England. All of our products are rigorously tested at each stage of the production process.

Reliability

Electro Heaters and exchangers are a market leader in Europe due to their proven durability and reliability.

Simplicity

All Electro units are designed to ensure simple and cost effective installation and operation.

Service

Electro is a family owned and operated business – we pride ourselves on offering the ultimate level of service

Electro heat exchangers provide the perfect solution for fast, accurate and reliable heating of all pools. They are available in ratings from 25-100kW.

Made in Hertfordshire, England

Distributed By

