Elson products are supported by heateam. With us on your side, you can be sure that your customers are in the very best hands. Totally committed to quality and safety, heateam is open 7 days a week, for 363 days a year. Opening Times: Monday-Friday 8am-6pm, weekends and Bank Holidays* 8.30am-2pm. Simply call 0344 871 1535 or visit our website at www.heateam.co.uk

Providing your customers’ hot water needs, the Zircon cylinder range ensures the best possible performance – powerful mains pressure showering and fast filling baths, whilst delivering reliability and efficiency. Using the most advanced technology available, from Duplex stainless steel cylinder construction for maximum strength and corrosion resistance, CFC/HCFC-free injected foam to ensure best possible heat efficiency, primary coil and cold water controls design giving rapid reheat and good flow rate performance. Backed by a 25 year guarantee with on-site service support.

Elson offers you first class customer service; guaranteed specification advice on product selection and system type, a fully indemnified design service and installation support and guidance on how to get the optimum performance from your system.

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Why choose Elson Zircon

Designed with the installer in mind

Fully indemnified design service

Anode-free – eliminating costly maintenance

“L shaped” long-life Superloy immersion heater reaching deeper into the tank to deliver increased hot water volume

Superior immersion heaters as standard

High performance “coil-in-coil” heat exchanger

Exceeds CHeSS** Best Practice for insulation and heat recovery

Duplex stainless steel – giving maximum strength and corrosive resistance

Pressure tested to 15 bar

Second purpose-designed solar coil for maximum efficiency, compatible with most UK solar systems

Electrical protection rated at IPX2

Products tested and compliant with EN 60335-1:2002 and EN 60335-2-21:2003

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*Excluding Christmas Day and New Year's Day.

**CheSS – Central heating system specifications.
Construction

The Elson cylinder range is constructed from strong and lightweight Duplex stainless steel to allow ease of handling on site, whilst offering exceptional corrosion resistance particularly in aggressive water areas, compared with some forms of stainless steel and glass-lined steel. With no sacrificial anode to replace regular maintenance is kept to a minimum.

Every Elson cylinder is tested to 15 bar in its manufacturing plant, giving flexibility whether in a domestic or commercial application.

Foam insulation measuring 50mm (CFC/HFC-free – ODP zero) is available on all models to give improved insulation standards. Our cylinders are finished in modern and robust white plastic-coated corrosion-proofed steel, cased with grey high impact thermoplastic top and bottom mouldings.

Performance

Indirect models are designed to offer high output coil-in-coil heat exchangers rating from 12.5 to 19kW allowing high efficient transfer of energy whilst its position in the base of the cylinder maximises the amount of hot water heated, and the cold water controls design delivers good flow rate performance. The Elson cylinder range gives mains pressure hot water for a balanced supply to showers and mixers – without the need for a shower pump.

Installation

Designed with the installer in mind – all plumbing and electrical connections are located easily to give maximum access. Plumbing connections are 22mm compression.

Capacities range from 120 to 300 litres on the standard models and 190 to 300 litres on the solar models. With no cold feed cistern required – the cylinder can be installed in an airing cupboard, loft, cellar, utility room or even in a garage.
Specification

Nominal Capacities
Indirect models: 120, 150, 170, 210, 250 and 300 litres.
Direct models: 120, 150, 170, 210, 250 and 300 litres.
Solar Indirect models: 190, 210, 250 and 300 litres.

Element
Long-life Incoloy 825 sheathed element, incorporated into an easily removable heater plate, should replacement be necessary. Rated 3.0kW @ 240V.

Outer Casing
White plastic-coated corrosion-proofed steel with grey high impact thermoplastic moulded top and bottom covers.

Thermal Insulation
CFC/HFC free (ODP ZERO) fire retardant expanded polyurethane. 50mm thickness. GWP 3.1 (Global Warming Potential).

Inner Container
Duplex stainless steel, pressure tested to 15 bar.

Primary Coil
22mm diameter stainless steel. Coil-in-coil design for improved performance. Rated to 10 bar. Purpose designed solar coil 1.1m².

Thermostat
Capillary type thermostat & thermal cut-out on all models.

Direct Models:
Element thermostat adjustable 12°C to 68°C. Manual resettable thermal cut-out, set to 85°C.

Indirect Models:
Primary thermostat adjustable 12°C to 68°C. Manual resettable thermal cut-out, set to 85°C.

Solar Models:
Manual resettable thermal cut-out, set to 85°C.

Safety Features
Temperature and pressure relief valve, factory set to operate at 10 bar, 90°C-95°C.

Anode
None required.

Approvals

Guarantee
On-site service support including parts and labour for 12 months from date of installation. After the initial 12 months, a guarantee will apply for a further 24 years for the stainless steel inner vessel only. During this 24 year period, in the event of a cylinder leak, a replacement product will be issued provided that the replacement is carried out by one of our heated services, for which reasonable labour charges will apply.

The guarantee is valid provided that:
- It has been correctly installed as per the instructions contained in the instruction manual and all relevant Codes of Practice and Regulations in force at the time of installation.
- The Benchmark Checklist has been completed upon commissioning and the Service Record Book is completed for each service.
- It has not been modified in any way, other than by ELSON.
- It has not been frost damaged.
- It has only been used for the storage of potable water.
- It has not been tampered with or been subjected to misuse or neglect.
- The fault is not scale related.
- Within 60 days of installation the user completes and returns the certificate supplied along with the proof of purchase to register the product.
- It has been installed in the United Kingdom.
- The fault is not caused by high chloride levels in the water supply or incorrect disinfection methods. Maximum permissible chloride level 250mg/l (PPM).
- The expansion vessel is guaranteed for a period of 5 years from the date of purchase.
- The cold water controls and all accessories are guaranteed for 2 years.

Evidence of purchase and date of supply may be required. The guarantee is transferable. This guarantee does not affect your statutory rights.

Indirect model
120zi, 150zi, 170zi, 210zi, 250zi, 300zi

<table>
<thead>
<tr>
<th>Capacity (litres)</th>
<th>120</th>
<th>150</th>
<th>170</th>
<th>210</th>
<th>250</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (mm) A</td>
<td>930</td>
<td>1114</td>
<td>1240</td>
<td>1498</td>
<td>1752</td>
<td>2067</td>
</tr>
<tr>
<td>Diameter (mm) B</td>
<td>550</td>
<td>550</td>
<td>550</td>
<td>550</td>
<td>550</td>
<td>550</td>
</tr>
<tr>
<td>Element rating (kW)</td>
<td>1 x 3</td>
<td>1 x 3</td>
<td>1 x 3</td>
<td>1 x 3</td>
<td>1 x 3</td>
<td>1 x 3</td>
</tr>
<tr>
<td>Empty weight (kg)</td>
<td>27</td>
<td>32</td>
<td>34</td>
<td>40</td>
<td>44</td>
<td>52</td>
</tr>
<tr>
<td>Full weight (kg)</td>
<td>147</td>
<td>162</td>
<td>204</td>
<td>250</td>
<td>294</td>
<td>352</td>
</tr>
<tr>
<td>Standing heat loss per day (kWh/24h)</td>
<td>1.47</td>
<td>1.70</td>
<td>1.92</td>
<td>2.10</td>
<td>2.22</td>
<td>2.52</td>
</tr>
</tbody>
</table>

Solar model
190zi, 210zi, 250zi, 300izi

<table>
<thead>
<tr>
<th>Capacity (litres)</th>
<th>190</th>
<th>210</th>
<th>250</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (mm) A</td>
<td>1398</td>
<td>1499</td>
<td>1757</td>
<td>2065</td>
</tr>
<tr>
<td>Diameter (mm) B</td>
<td>550</td>
<td>550</td>
<td>550</td>
<td>550</td>
</tr>
<tr>
<td>Element rating (kW)</td>
<td>1 x 3</td>
<td>1 x 3</td>
<td>1 x 3</td>
<td>1 x 3</td>
</tr>
<tr>
<td>Empty weight (kg)</td>
<td>43</td>
<td>50</td>
<td>51</td>
<td>58</td>
</tr>
<tr>
<td>Full weight (kg)</td>
<td>233</td>
<td>260</td>
<td>301</td>
<td>358</td>
</tr>
<tr>
<td>Standing heat loss per day (kWh/24h)</td>
<td>1.65</td>
<td>1.75</td>
<td>1.98</td>
<td>2.33</td>
</tr>
</tbody>
</table>

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