• Recovery rates from 155 to 929 litres/hour
• Multiple immersion elements for greater efficiency
• ErP tested and certified
• Up to 8 bar working pressure
• 3-phase electric water heater
• Zero on-site emissions
• Integral safety switch to prevent dry-firing
Lochinvar
Cavalier Electric Storage Water Heaters

Cavalier electric storage water heaters are floor standing and available in seven models with storage capacities ranging from 200 to 300 litres. They can provide hot water recovery rates from 155 to 929 litres per hour, based upon a temperature rise of 50°C.

Suitable for a range of small to medium-sized commercial and industrial applications, they provide hot water with zero on-site emissions; as such they are fully BREEAM and ‘London plan’ compliant.

ErP / EcoDesign certified product
The Cavalier range has been tested and certified in accordance with the EcoDesign directive, providing peace of mind for specifiers, contractors and end users.

Insulated and jacketed storage vessel
With a storage vessel construction from enamelled steel, Cavalier water heaters are capable of operating at working pressures of up to 8bar. An integral magnesium anode provides cathodic protection. Correx non-sacrificial powered anode kits are available as ancillary options. The storage vessel is insulated with 65mm polyurethane foam and encased in an enamelled grey jacket; heat losses are substantially lower than the maximum allowed under Building Regulations, Part L.

Designed for ease of maintenance
Access to electrics is provided from the front of the Cavalier water heater.

Multiple Immersion Elements
This is one of the key features of the Cavalier range; each model has multiple immersion elements ranging from 3 x 3kW elements at the lowest output (9kW) model up to 9 x 6kW elements on the highest output (54kW) model.

Each element has its own adjustable thermostat, with settings ranging from 49 to 82°C, and operate in sequence to provide fast recovery of hot water and better efficiency especially during off-peak demand periods. The independent operation of each element provides stand-by, in the event of individual element failure.

BREEAM and Zero on-site emissions
BREEAM is the world's longest established method of assessing, rating and certifying the sustainability of buildings. It aims to help construction professionals and building owners to manage and mitigate risk through demonstrating sustainability performance during planning, design, construction, operation or refurbishment. It is also designed to help lower running costs, maximise returns through market value, attract, and retain tenants with desirable places to live and work.

Cavalier water heaters do not have any on-site carbon or NOx emissions making them particularly suitable for BREEAM projects.
Hybrid hot water systems

Another key feature of Cavalier water heaters is that they can be installed with our range of Amicus Heat pumps as part of a hybrid hot water system.

Lochinvar Amicus heat pump providing pre-heated feed water to Cavalier water heater

Product Dimensions

<table>
<thead>
<tr>
<th>Description</th>
<th>AMP200 Models</th>
<th>AMP300 Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Height hot water connection</td>
<td>1460</td>
<td>1580</td>
</tr>
<tr>
<td>B Height of upper side of device</td>
<td>1420</td>
<td>1540</td>
</tr>
<tr>
<td>C Diameter of water heater</td>
<td>560</td>
<td>640</td>
</tr>
<tr>
<td>D Depth</td>
<td>690</td>
<td>790</td>
</tr>
<tr>
<td>E Height of drain valve</td>
<td>125</td>
<td>125</td>
</tr>
<tr>
<td>F Height cold water supply</td>
<td>125</td>
<td>125</td>
</tr>
<tr>
<td>G Height T&amp;P connection</td>
<td>1230</td>
<td>1335</td>
</tr>
<tr>
<td>1 Cold water connection</td>
<td>NPT 1¼&quot;</td>
<td>NPT 1¼&quot;</td>
</tr>
<tr>
<td>2 Hot water connection</td>
<td>NPT 1¼&quot;</td>
<td>NPT 1¼&quot;</td>
</tr>
<tr>
<td>3 T&amp;P connection</td>
<td>NPT ¼&quot;</td>
<td>NPT ¼&quot;</td>
</tr>
<tr>
<td>4 Drain plug connection</td>
<td>NPT ¼&quot;</td>
<td>NPT ¼&quot;</td>
</tr>
</tbody>
</table>
# Technical Specification

<table>
<thead>
<tr>
<th>Water Heater model</th>
<th>AMP 200-9</th>
<th>AMP 200-18</th>
<th>AMP 200-36</th>
<th>AMP 300-9</th>
<th>AMP 300-18</th>
<th>AMP 300-36</th>
<th>AMP 300-54</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
<td>kW</td>
<td>9</td>
<td>18</td>
<td>36</td>
<td>9</td>
<td>18</td>
<td>36</td>
</tr>
</tbody>
</table>

## Efficiency Data - Building regulations

- Efficiency: % 100 100 100 100 100 100 100 100
- Storage vessel heat loss: kWh/24 Hr 1.5 1.5 1.5 1.9 1.9 1.9 1.9 1.9

## Efficiency Data - ErP and Energy Label

- Ecodesign Energy Label rating: C C C C C C C
- Water Heater efficiency: % 38 38 38 38 38 38 38 38

## Electrical Data

- Input kW 9 18 36 9 18 36 54
- Number of elements 3 3 6 3 3 6 9
- Electrical Requirements VAC/Hz/Phase 400 [-15%, +10%] / 50 / 3

## General Data

- Recovery Rate @ 44°C l/hr 176 352 703 176 352 703 1056
- Recovery Rate @ 50°C l/hr 155 310 619 155 310 619 929
- Dimensions (Height) mm 1420 1420 1420 1540 1540 1540 1540
- Dimensions (Width) mm 560 560 560 640 640 640 640
- Dimensions (Depth) mm 690 690 690 790 790 790 790
- Storage Capacity litres 200 200 200 300 300 300 300
- Weight (Empty) kg 73 73 73 110 110 110 110
- Weight (Full) kg 273 273 273 410 410 410 410
- Hot Outlet Connection (Inches) NPT 1¼" 1¼" 1¼" 1¼" 1¼" 1¼" 1¼"
- Cold Feed Connection (Inches) NPT 1¼" 1¼" 1¼" 1¼" 1¼" 1¼" 1¼"
- Sound Power Level LWA(dB) 15 15 15 15 15 15 15
- Max Outlet Temperature °C 82 82 82 82 82 82 82
- Maximum Working Pressure bar 8 8 8 8 8 8 8

Energy Label, Product Fiche and ErP Data Table are available at www.lochinvar.ltd.uk

Ancillary Options

- Corex non-sacrificial anode kit
- De-stratification pump sets
- Unvented system kits

For further information on the Cavalier Water Heaters, including ICM & User Instructions and our full Warranty Terms and Conditions, please visit our website: www.lochinvar.ltd.uk

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Lochlinvar Ltd reserves the right to change specifications without prior notice

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