Squire Indirect Water Heaters

- Peak draw-off capacities up to 5456 litres in first hour at a 50°C temperature rise
- Clean out access for easy maintenance and inspection
- Up to 10.0 bar working pressure
- 3 year vessel warranty
Lochinvar
Squire Indirect Water Heaters

Often referred to as ‘Calorifiers’, Indirect Water Heaters have supplied a wide range of hot water demands for many years. Used in conjunction with a heating boiler installation, these products provide an indirect method of generating hot water for a number of building types.

Squire Indirect Water Heater models are suitable for a wide range of applications in both commercial and industrial buildings, and provide a reliable supply of hot water when installed with suitably sized heating boilers.

Constructed from enamelled steel the Squire is available with single or dual coil options.

Single Coil models
- 10 models
- Storage capacities ranging from 300 to 2820 litres
- Maximum first hour draw off of up to 5456 litres per hour
- High recovery coils providing fast hot water recovery

Twil Coil models
- 5 models
- Storage capacities ranging from 388 to 1020 litres
- Maximum first hour draw off of up to 3344 litres per hour
- High recovery coils providing fast hot water recovery
Indirect Water Heating
This has been a established concept in a range of building types, for many years. Advances in boiler efficiencies and indirect water heater coil capabilities in recent years continue to make this a popular choice with this involved in the design and installation of hot water systems for commercial and industrial projects.

Pre-heat vessels / Renewable installations
Squire products can also be used as ‘pre-heat vessels’ on Solar Thermal installations; in these projects the hot water generated from solar gain is stored and then used as feed water for the primary hot water supply.

Twin coil models are particularly suitable, with the solar renewable providing hot water via the lower coil, and the upper coil connected to the heating boiler installation. This type of installation removes the need for an additional pre-heat vessel and therefore can save valuable plant room space.
## Technical Specification

<table>
<thead>
<tr>
<th>Indirect Storage Vessel Model</th>
<th>SINGLE COIL MODELS</th>
<th>TWIN COIL MODELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Capacity</td>
<td>litres</td>
<td>300</td>
</tr>
</tbody>
</table>

### Efficiency Data - Building Regulations
- Heat Loss
  - Kw/24 hr: 1.2, 1.6, 1.9, 2.0, 2.2, 4.7, 7.3, 7.8, 8.6
- Efficiency Data - ErP
  - Ecodesign Energy Label rating
    - c, c, c, n/a, n/a, n/a, n/a, c, c, n/a, n/a
  - Standing Loss
    - W: 92, 100, 104, 126, 126, 146, 154, 171, 232, 243, 244, 100, 104, 126, 126, 146

### Coil and Performance Data
- Dimensions (Height)
  - mm: 1650, 1710, 2045, 1840, 2035, 2005, 1930, 2118, 1989, 2118, 1710, 2045, 1840, 2035, 2005
- Dimensions (Width)
  - mm: 750, 740, 760, 910, 930, 1100, 1300, 1300, 1600, 1600, 1300, 1300, 1600, 1600, 1300
- Hot Outlet Connection (Inches)
  - BSP: R 1, R 1½, R 1½, R 1½, R 1½, R 2½, R 2, R 2
- Cold Feed Connection (Inches)
  - BSP: R 1, R 1½, R 1½, R 1½, R 1½, R 2½, R 2, R 2
- Flow/Return Connection (Inches)
  - BSP: Rp 1, Rp 1½, Rp 1½, Rp 1½, Rp 1½, Rp 1¼, Rp 1¼, Rp 1¼
- Weight (Empty)
- Weight (Full)
  - kg: 436, 529, 660, 891, 984, 1356, 1978, 2256, 3176, 3340, 533, 671, 896, 992, 1360
- Minimum Working Pressure
  - bar: 0.5, 0.5, 0.5, 0.5, 0.5, 0.5, 0.5, 0.5, 0.5, 0.5, 0.5, 0.5, 0.5, 0.5
- Maximum Working Pressure
  - bar: 10, 10, 10, 10, 10, 10, 7, 7, 7, 7, 10, 10, 10, 10, 10
- Maximum Working Temperature
  - °C: 95, 95, 95, 95, 95, 95, 95, 95, 95, 95, 95, 95, 95, 95, 95
- Electrical Requirements
  - (for thermostat only)
    - 230V /1Ph/ 50hz* 230V /1Ph/ 50hz*

### Coil Output (80/60 °C) Bottom/Top
- kW: 46, 79, 102, 106, 114, 147, 149, 149, 159, 159, 52/37, 68/42, 73/40, 81/57, 88/59
- m2: 1.4, 2.45, 3.45, 3.72, 4.82, 5.2, 5.2, 6, 6, 6, 6
- l/sec: 0.52, 0.93, 1.19, 1.24, 1.34, 1.73, 1.8, 1.8, 1.9, 1.9
- kPa: 8, 24.4, 48.9, 10.4, 12.8, 25.9, 83, 83, 69.5, 69.5, 7.8, 16.6
- °C: 160, 110, 110, 110, 110, 110, 90, 90, 90, 90, 110, 110, 110, 110, 110

### Ancillary Options
- Destratification pumps
- Unvented system kits and Expansion vessels
- Electric Immersion elements
- Thermometer kits
- Correx non-sacrificial protection system (models SIVS66 to 220, and SIVT100 to 220)

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