CUBEmow Thermal Store
RECTANGULAR COPPER HOT WATER TANK

Specifications

<table>
<thead>
<tr>
<th>Nominal Capacity (litres)</th>
<th>100</th>
<th>150</th>
<th>210</th>
<th>250</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (mm)</td>
<td>570</td>
<td>570</td>
<td>570</td>
<td>600</td>
<td>640</td>
</tr>
<tr>
<td>Depth (mm)</td>
<td>495</td>
<td>495</td>
<td>585</td>
<td>600</td>
<td>640</td>
</tr>
<tr>
<td>Height (mm)</td>
<td>865</td>
<td>1285</td>
<td>1260</td>
<td>1260</td>
<td>1263</td>
</tr>
<tr>
<td>Insulation Thickness (mm)</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Immersion heater rating (kW)</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Weight empty (kg)</td>
<td>43</td>
<td>64</td>
<td>90</td>
<td>107</td>
<td>128</td>
</tr>
<tr>
<td>Weight full (kg)</td>
<td>143</td>
<td>214</td>
<td>300</td>
<td>357</td>
<td>428</td>
</tr>
</tbody>
</table>

Technical Specifications

Maximum incoming pressure to pressure reducing valve if supplied 12 Bar
Minimum recommended supply pressure and flow rate 1.0 Bar and 20 litres per minute
Maximum recommended incoming pressure 2.1 Bar
Material Copper
Insulation material (nominal thickness 60mm) CFC/HCFC free, fire retardant expanded polyurethane foam with zero ozone depletion
Global warming potential (GWP) = 1.0
Immersion heater/s 3kW at 240V
Connections (standard) 22mm compression. Solid Fuel 28mm compressions
Domestic hot water expansion Factory fitted expansion bottle
Integrated Header Tank

ERP / Heat Loss Data (Indirect)

<table>
<thead>
<tr>
<th>Capacity (litres)</th>
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<tr>
<td>Insulation Thickness (mm)</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Standing loss (W)</td>
<td>59</td>
<td>68</td>
<td>78</td>
<td>85</td>
<td>94</td>
</tr>
<tr>
<td>Standing loss (kWh/24h)</td>
<td>1.42</td>
<td>1.63</td>
<td>1.87</td>
<td>2.04</td>
<td>2.26</td>
</tr>
<tr>
<td>Water heating energy efficiency class</td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>C</td>
</tr>
</tbody>
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Other Insulation thicknesses are available.

ERP Data (Direct Units)

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<td>C</td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>Load Profile</td>
<td>M</td>
<td>M</td>
<td>L</td>
<td>L</td>
<td>L</td>
</tr>
<tr>
<td>Annual Elec. Consumption (kWh/annum)</td>
<td>1489</td>
<td>1974</td>
<td>2813</td>
<td>3172</td>
<td>3374</td>
</tr>
<tr>
<td>Annual Elec. Consumption (GJ/annum)</td>
<td>5</td>
<td>8</td>
<td>10</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>Sound Level (dB)</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

Components

The following components are supplied as standard with CUBEmow Thermal Store

**Immersion/s**

Low Watts Density Immersion heater/s with combined control/limit stat

**Cold Water**

15mm Ballvalve + Float
22mm Y Strainer

**Safety**

Thermostatic Mixing Valve (BS EN15092), Temp. range = 45 to 65°C
Control Thermostat (and Overheat Stat for Solid Fuel Models)
Factory fitted expansion pipework
Legislation
- Building Regulations Part G and Part L
- Scottish Building Standards: Section 4 and Section 6.
- Building Regulations (Northern Ireland): Part F1, F2 & P
- Water Supply (Water Fittings) Scotland Byelaws 2014
- The Water Supply (Water Fittings) Regulations 1999
- The Water Supply (Water Fittings) Regulations (Northern Ireland) 2009

Standards
- HWA Performance Specification for Thermal Stores

Materials chosen, adhering to:
- BS EN 1254:1998 (1 - 5) “Copper and copper alloys. Plumbing fittings.”

Factory manufactured, adhering to:
- BS EN ISO 9001:2008 “Quality management systems. Requirements.”

ERP Regulations:

Brian Patrick
Production Manager
McDonald Water Storage

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