The Spirax Sarco M series is a compact packaged condensate recovery unit designed for relatively small loads. It comprises a vertical receiver with single close-coupled motor pump and control gear pre-wired and ready for use.

**Standards**
This product fully complies with the requirements of the European Machinery Directive 98/37/EC, European Low Voltage Directive 72/23/EEC and European Electromagnetic Compatibility Devices Directive 89/336/EEC. This product is not a pressurised vessel and therefore does not need to comply with the European Pressure Equipment Directive 97/23/EC.

**Certification**
This product is available with a Typical Test Report and a certificate of conformity to EN 10204 2.1.

**Construction**
**Receiver**
Steel construction, hot dip galvanised. Designed for vented operation but pressure tested to 2.1 bar. Alternatively a mild steel receiver painted externally with two coats of primer is available upon request.

**Pumps**
Pumps are designed to operate under conditions of extremely low NPSH. Close coupled motor pump with cast iron casing and bronze impeller. Stainless steel shaft and Crane mechanical seal. 3 400 or 2 800 rpm motor suitable for 380 - 440 volt 3 phase 50 Hz or 60 Hz supplies. TEFV IP55 enclosure with Class ‘F’ insulation utilizing Class ‘B’ temperature rise only.

**Control gear**
Float operated magnetic level switch pre-wired to a control panel housed in plastic control gear with the enclosure mounted on a stand-off bracket. Enclosure houses contactor starter with overload and single phasing protection. A rotary ‘Hand/Off/Auto’ selector provides manual control for test or maintenance. The control gear enclosure is pre-wired in a flexible conduit to the motor pump terminal box.

**Warning:** The customer electrical supply must contain fuse protection.

**Electrical details**

<table>
<thead>
<tr>
<th>Unit</th>
<th>M0207</th>
<th>M2107</th>
<th>M2111</th>
</tr>
</thead>
<tbody>
<tr>
<td>kW rating</td>
<td>0.75</td>
<td>0.75</td>
<td>1.10</td>
</tr>
</tbody>
</table>

**Installation**
The pump suction pipework incorporates a resilient coupling, avoiding expansion stresses and facilitating pump removal. A 1” BSP bronze non-return valve is fitted to the pump delivery. Installation requires only connection of the inlet, vent, overflow and discharge pipework, and wiring between the customers supply isolator and the control gear enclosure. With the selector turned to ‘Auto’ the unit operates to match demand with no further attention.

**Note:** It is recommended that a valve should be fitted in the delivery pipework adjacent to the unit. Should the system head be less than the unit head, the valve may then be adjusted to increase the system head, reducing possible cavitation and noise.
## Dimensions / weights

<table>
<thead>
<tr>
<th>Unit</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>N</th>
<th>P</th>
<th>Q</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>M0207</td>
<td>1075</td>
<td>240</td>
<td>260</td>
<td>665</td>
<td>1005</td>
<td>215</td>
<td>320</td>
<td>150</td>
<td>25</td>
<td>380</td>
<td>200</td>
<td>220</td>
<td>175</td>
<td>220</td>
<td>700</td>
<td>95.0</td>
</tr>
<tr>
<td>M2107</td>
<td>1075</td>
<td>240</td>
<td>260</td>
<td>665</td>
<td>1005</td>
<td>235</td>
<td>320</td>
<td>150</td>
<td>25</td>
<td>380</td>
<td>200</td>
<td>220</td>
<td>175</td>
<td>220</td>
<td>700</td>
<td>95.0</td>
</tr>
<tr>
<td>M2111</td>
<td>1075</td>
<td>240</td>
<td>260</td>
<td>665</td>
<td>1005</td>
<td>235</td>
<td>320</td>
<td>150</td>
<td>25</td>
<td>380</td>
<td>200</td>
<td>220</td>
<td>175</td>
<td>220</td>
<td>700</td>
<td>95.0</td>
</tr>
</tbody>
</table>

(Note: these figures are for guidance only and not to be used for design purposes)

---

**Dimensions / weights in mm and kg**

**Condensate to be handled at 94°C kg/h**

**Condensate to be handled at 98°C kg/h**

---

**Sizing charts**

- **M0207**
- **M2107**
- **M2111**

---

**M Series Condensate Recovery Unit**

TI-P089-01 ST Issue 7