PP range of run around coil heat recovery Pump Sets

Expansion Tank with a replaceable rubber membrane of sufficient volume to cater for the thermal expansion of the system volume.

Globe Valve fitted for pressure/flow regulation.

As an optional extra a Chemical Dosing Pot can be supplied fully mounted and piped as shown.

Filling and make-up connection 1/2” BSP female

Delivery connection screwed BSP female

Pressure Gauge fitted to display delivery fluid pressure.

Model Shown: PP1 C/W Dosing Pot

Suction connection screwed BSP female

1/2” BSP Pressure Relief Valve fitted to prevent over pressurisation of the system.

Stainless steel end suction centrifugal fluid circulating pump close coupled to a TEFC metric three phase motor (Single phase motors available on request).
Example of basic model with no extras

- Stainless steel end suction centrifugal fluid circulating pump close coupled to a TEFC metric three phase motor (Single phase motors available on request).
- Expansion Tank with a replaceable rubber membrane of sufficient volume to cater for the thermal expansion of the system volume.
- Pressure Gauge fitted to display delivery fluid pressure.
- Globe Valve fitted for pressure/flow regulation.
- Filling and make-up connection 1/2” BSP female.
- Suction connection screwed BSP female.
- Delivery connection screwed BSP female.
- 1/2” BSP Pressure Relief Valve fitted to prevent over pressurisation of the system.
- Model Shown: PP1.5.
**Specification**

**Pump**
Centrifugal type, single stage end suction, with an enclosed radial impeller, of stainless steel construction, fitted with a mechanical seal and close coupled to a three phase electric motor (Single phase motors available on request).

**Motor**
Standard metric frame, T.E.F.C., IP 55, 400 volt, 3 phase, 50 cycles.

**Expansion tank**
Manufactured from mild steel with a replaceable rubber membrane and sized to have sufficient volume to cater for thermal expansion of the system volume.

**Pressure relief valve**
Bronze design, fitted to prevent over pressurization of the system.

**Pressure gauge**
Dual scale, glycerine filled and fitted to the discharge side of pump.

**Valves**
Bronze and/or non ferrous design, screwed BSP.

**Base frame**
Fabricated and folded from mild steel galvanized sheet.

**Pipe work**
Please refer to individual specifications.

**Pipe fittings**
Please refer to individual specifications.

**Finish**
Please refer to individual specifications.

---

**Basic selection data**

<table>
<thead>
<tr>
<th>Model No</th>
<th>Motor Size (kW)</th>
<th>FLC (amps) 400 volt 3 phase</th>
<th>Minimum flow (lps) Vs. Discharge head (kpa)</th>
<th>Maximum flow (lps) Vs. Discharge head (kpa)</th>
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<tbody>
<tr>
<td>PP1</td>
<td>0.37</td>
<td>1.35</td>
<td>0.41 @ 205</td>
<td>1.16 @ 161</td>
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<tr>
<td>PP1.5</td>
<td>0.55</td>
<td>1.48</td>
<td>0.41 @ 284</td>
<td>1.16 @ 220</td>
</tr>
<tr>
<td>PP2</td>
<td>0.75</td>
<td>1.7</td>
<td>1.16 @ 259</td>
<td>1.67 @ 210</td>
</tr>
<tr>
<td>PP3/2</td>
<td>0.75</td>
<td>1.7</td>
<td>1.67 @ 166</td>
<td>4.83 @ 108</td>
</tr>
<tr>
<td>PP3/3</td>
<td>1.1</td>
<td>2.39</td>
<td>1.67 @ 200</td>
<td>4.83 @ 152</td>
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<tr>
<td>PP3/4</td>
<td>1.5</td>
<td>3.17</td>
<td>1.67 @ 245</td>
<td>4.83 @ 196</td>
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<tr>
<td>PP3</td>
<td>1.85</td>
<td>4.64</td>
<td>1.67 @ 279</td>
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<tr>
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<td>6.14</td>
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### Base frame dimensional data

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<th>Dimension B (mm)</th>
<th>Dimension C (mm)</th>
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<td>460</td>
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<tr>
<td>PP1.5</td>
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<td>320</td>
<td>460</td>
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<tr>
<td>PP2</td>
<td>900</td>
<td>365</td>
<td>475</td>
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<tr>
<td>PP3/2</td>
<td>980</td>
<td>395</td>
<td>525</td>
</tr>
<tr>
<td>PP3/3</td>
<td>980</td>
<td>395</td>
<td>525</td>
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<tr>
<td>PP3/4</td>
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<tr>
<td>PP4</td>
<td>980</td>
<td>395</td>
<td>525</td>
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</table>

6 x foundation fixing holes dia. 12mm.
General operational notes

Fluid from the system enters the Pump Set via the suction connection enroute to the Centrifugal Pump which develops the delivery pressure.

The flow rate may be calculated by plotting the difference between the pump running pressure and the pump stop pressure, onto the pump performance curve which may be found in the following pages.

To achieve the design flow rate the Globe Valve fitted to the pump delivery line may be throttled until the desired pressure is obtained and observed on the Pressure Gauge.

To accommodate any thermal expansion of the system, the Pump Set is fitted with an Expansion Tank with the air cushion pressure nominally factory set at 20 psi gauge.

To prevent over pressurisation of the system the Pump Set is fitted with a Pressure Relief Valve factory set at 45 psi.

A ¾” BSP connection is provided on the suction side of the pump to facilitate filling and make-up of the system.

It is strongly advisable to provide a permanently connected make-up supply to the system to ensure that the system remains full and pressurised.

We also strongly recommend that automatic air vents are fitted throughout the pipe work system at all high level points, to ensure that the system fills correctly.

Individual Specifications

Each Pump Set comprises the following main items of equipment which are mounted on a common structural steel base frame with interconnecting pipe work.

<table>
<thead>
<tr>
<th>Item No</th>
<th>Number of</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Centrifugal Pump Model CEA70/3 c/w 0.37 kW x 2900 RPM IP55 Motor</td>
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<tr>
<td>2</td>
<td>1</td>
<td>Expansion Tank 24 litre capacity</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Ball Valve 1 1/4” BSP</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>Ball Valve 1/2” BSP</td>
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<tr>
<td>5</td>
<td>1</td>
<td>Ball Valve 1/4” BSP</td>
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<tr>
<td>6</td>
<td>1</td>
<td>Globe Valve 1” BSP</td>
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<tr>
<td>7</td>
<td>1</td>
<td>Pressure Relief Valve 1/2” BSP</td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td>Pressure Gauge 0-60 PSI</td>
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<tr>
<td>9</td>
<td>1 Set</td>
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### Model PP1.5

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<tr>
<td>4</td>
<td>2</td>
<td>Ball Valve 1/2” BSP</td>
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<td>Ball Valve 1/4” BSP</td>
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<tr>
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<td>1</td>
<td>Globe Valve 1” BSP</td>
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<td>7</td>
<td>1</td>
<td>Pressure Relief Valve 1/2” BSP</td>
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<td>8</td>
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### Model PP2

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<td>4</td>
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<td>Globe Valve 1 1/4” BSP</td>
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### Model PP3/2

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<td>3</td>
<td>1</td>
<td>Ball Valve 1 1/2” BSP</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>Ball Valve 1/2” BSP</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>Ball Valve 1/4” BSP</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>Globe Valve 1 1/2” BSP</td>
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<td>7</td>
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<td>Pressure Relief Valve 1/2” BSP</td>
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### Model PP3/3

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<td>4</td>
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<td>Globe Valve 1 1/2” BSP</td>
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<td>Centrifugal Pump Model CEA210/4 c/w 1.5 kW x 2900 RPM IP55 Motor</td>
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<td>Ball Valve 1 1/2” BSP</td>
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<tr>
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<td>1</td>
<td>Ball Valve 1/4” BSP</td>
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<tr>
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<td>1</td>
<td>Globe Valve 1 1/2” BSP</td>
</tr>
<tr>
<td>7</td>
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### Model PP3

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<td>1 Set</td>
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<tr>
<td>4</td>
<td>2</td>
<td>Ball Valve 1/2” BSP</td>
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<tr>
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<tr>
<td>9</td>
<td>1 Set</td>
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### Model PP4

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<td>1</td>
<td>Ball Valve 2 1/2” BSP</td>
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<tr>
<td>4</td>
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<td>Ball Valve 1/2” BSP</td>
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<td>Ball Valve 1/4” BSP</td>
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<td>Globe Valve 2” BSP</td>
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## Individual technical data

### Model PP1

<table>
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<th>Specification</th>
<th>Value</th>
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<tbody>
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<tr>
<td>Dry weight (kg)</td>
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<td>Operating weight (kg)</td>
<td>58</td>
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<tr>
<td>Inlet / Outlet connection size</td>
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<tr>
<td>Fill / Make - Up connection size</td>
<td>1/2” BSP female</td>
</tr>
<tr>
<td>Motor full load current (amps)</td>
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<td>Motor DOL starting current (amps)</td>
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<td>Installation</td>
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<tr>
<td>Fill / Make - Up connection size</td>
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<tr>
<td>Motor full load current (amps)</td>
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<td>Fill / Make - Up connection size</td>
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<td>Motor full load current (amps)</td>
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<td>Inlet / Outlet connection size</td>
<td>2” BSP female</td>
</tr>
<tr>
<td>Fill / Make - Up connection size</td>
<td>1/2” BSP female</td>
</tr>
<tr>
<td>Motor full load current (amps)</td>
<td>1.7</td>
</tr>
<tr>
<td>Motor DOL starting current (amps)</td>
<td>12.54</td>
</tr>
<tr>
<td>Installation</td>
<td>Indoors</td>
</tr>
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</table>

### Model PP3/3

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (mm)</td>
<td>980 x 335 x 835 high</td>
</tr>
<tr>
<td>Dry weight (kg)</td>
<td>58</td>
</tr>
<tr>
<td>Operating weight (kg)</td>
<td>73</td>
</tr>
<tr>
<td>Inlet / Outlet connection size</td>
<td>2” BSP female</td>
</tr>
<tr>
<td>Fill / Make - Up connection size</td>
<td>1/2” BSP female</td>
</tr>
<tr>
<td>Motor full load current (amps)</td>
<td>2.39</td>
</tr>
<tr>
<td>Motor DOL starting current (amps)</td>
<td>19.86</td>
</tr>
<tr>
<td>Installation</td>
<td>Indoors</td>
</tr>
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</table>

### Model PP3/4

<table>
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<th>Specification</th>
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<tbody>
<tr>
<td>Dimensions (mm)</td>
<td>980 x 335 x 835 high</td>
</tr>
<tr>
<td>Dry weight (kg)</td>
<td>60</td>
</tr>
<tr>
<td>Operating weight (kg)</td>
<td>75</td>
</tr>
<tr>
<td>Inlet / Outlet connection size</td>
<td>2” BSP female</td>
</tr>
<tr>
<td>Fill / Make - Up connection size</td>
<td>1/2” BSP female</td>
</tr>
<tr>
<td>Motor full load current (amps)</td>
<td>3.17</td>
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<td>Motor DOL starting current (amps)</td>
<td>27.89</td>
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<tr>
<td>Installation</td>
<td>Indoors</td>
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<td>Model PP3</td>
<td>Model PP4/3</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>980 x 335 x 835 high</td>
</tr>
<tr>
<td>Dry weight (kg)</td>
<td>63</td>
</tr>
<tr>
<td>Operating weight (kg)</td>
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</tr>
<tr>
<td>Inlet / Outlet connection size</td>
<td>2” BSP female</td>
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<tr>
<td>Fill / Make - Up connection size</td>
<td>1/2” BSP female</td>
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<tr>
<td>Motor full load current (amps)</td>
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<td>Motor DOL starting current (amps)</td>
<td>40.04</td>
</tr>
<tr>
<td>Installation</td>
<td>Indoors</td>
</tr>
</tbody>
</table>
Models PP1, PP1.5 and PP2 performance curves
Models PP3 performance curves
Models PP4 performance curves
Optional extra pressurisation make-up unit

Component mini unit with accurate electronic control and simple diagnostics.

The unit can be supplied loose for wall mounting or supplied mounted and fully piped to the PP Pump Set.

Microprocessor control with LED display controlling a single phase pump, providing a maximum pressure of 3 bar.

Full load current 0.4 amps.

Power usage 0.05 kW.

Pump trip with volt free normally open contacts.

High and low alarm set points with auto react volt free normally open contacts.

Sensor fail with volt free normally open contacts.

Low water detection and flood protection with an audible alarm.

Electronic controller is password protected.

Event logging for pump start and pump run hours.

System connection 1/4” BSP.

Unit weight 7.8 kg.

Dimensions 245 wide x 150 deep x 485 mm high.