

# Water Hydraulic Power Unit (HPU)



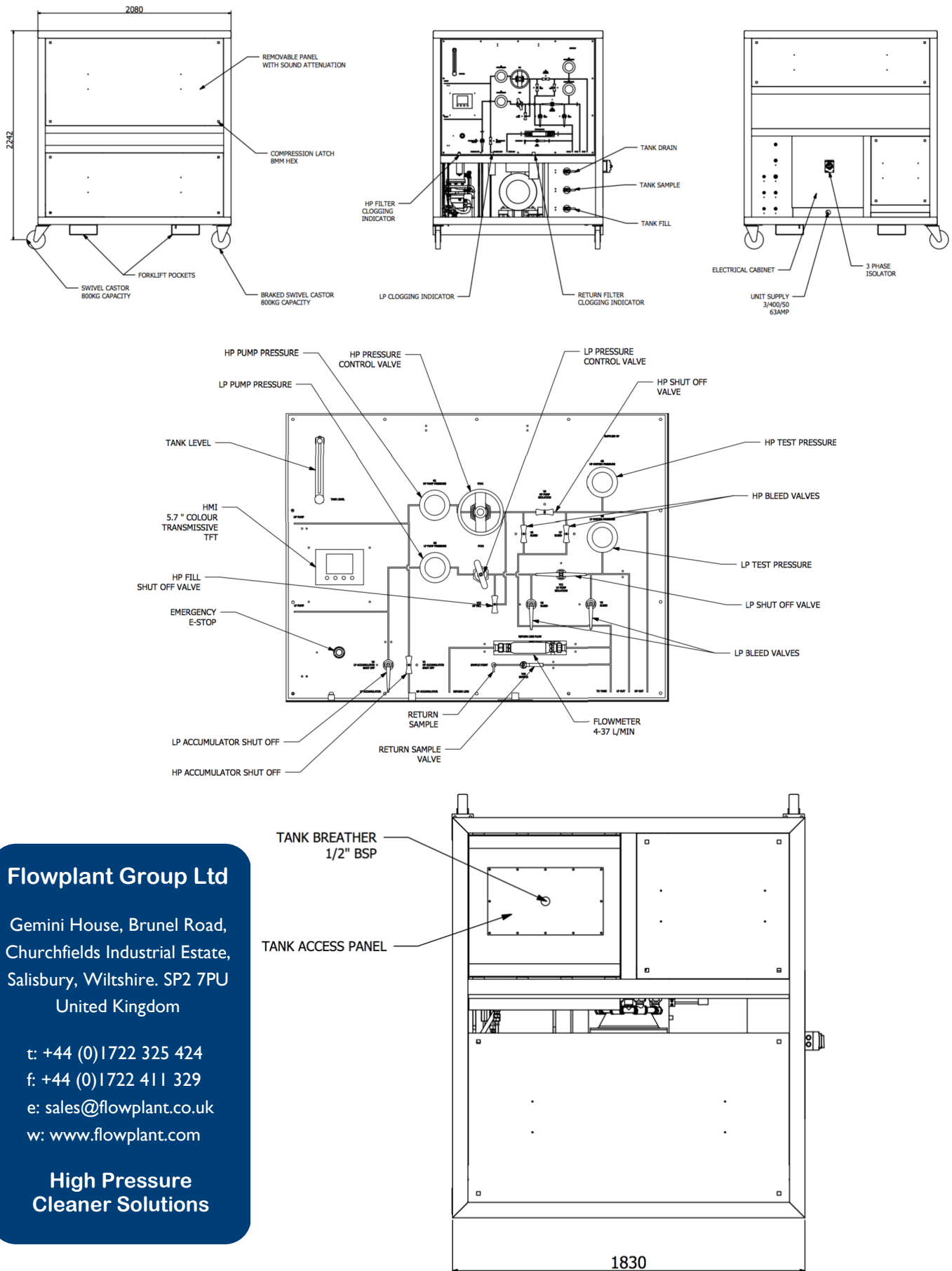
- Data sheet shows an example of the units manufactured at Flowplant
- Manufactured to customers requirements
- Hydraulic Power Unit capable of supplying constant high pressure fluid supply
- Operating pressure to 700 bar
- PLC and HMI control

Model	Water Hydraulic Power Units (HPU)
<b>Pressure and Flow</b>	High flow, medium pressure: 20 lpm @ 365 Bar Low flow, high pressure: 4 lpm @ 1034 Bar
<b>Pump</b>	Harben® 'P' type radial piston diaphragm pump for pressures up to 365 Bar. Seal-less design suitable for pumping low lubricity fluids at high pressure. For high pressures up to 1034 Bar the swash plate water glycol piston pump can be engaged.
<b>Motor/Starter</b>	Motors are IP55 rated for ingress protection. The Harben® 'P' type pump is powered via an inverter driven motor, controlled via an HMI screen. The piston pump is powered via a Star/Delta 3 phase motor, controlled via an HMI screen.
<b>Control System</b>	Pressure and flow monitoring with the option of feedback control for the operator. There is a full touch screen with remote operation and data logging available.
<b>Services Required</b>	Electrical supply - 440v 3 phase 50 Hz (other options available upon request) 9 Bar air supply, flow negligible
<b>Pressure Relief Valve</b>	PRV set to 10% WP. Lloyd's Register certification available upon request.
<b>Pressure Regulating Valve</b>	Medium flow: Pressure control valve allows users to supply the required operating pressure to test the system High pressure: Downstream monitoring pressure regulating valve
<b>Sampling</b>	Fluid sampling on tank and return line
<b>Accumulator</b>	Medium pressure: 50 litres, 365 Bar bladder accumulator. Stainless steel 316 wetted parts High pressure: 20 litres, 1,034 Bar piston accumulator. Full stainless steel 316 construction
<b>Supply Tank</b>	250 litres supply tank manufactured from 316 stainless steel. Full temperature and level monitoring via HMI.
<b>Cooling</b>	Thermostatically controlled water cooled plate cooler to maintain fluid temperature
<b>Frame</b>	Fully enclosed sound attenuated, stainless steel trolley unit supplied with forklift pockets for easy transportation
<b>Filtration</b>	1,034 Bar, 3 micron high pressure filter and 40 Bar, 3 micron low pressure filter. Fitted with visual clogging indicators.
<b>Dimensions</b>	1800mm Long x 2080mm Wide x 2300mm High *
<b>Weight</b>	Dry weight: From 2215 kgs *

\*These units are bespoke to suit customer's requirements

\*\* All weights and dimensions are subject to change and should be confirmed with Flowplant at time of quotation and ordering

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