



PumpPod



An Innovative Integrated Pumping Solution

The PumpPod™

What is it?

The PumpPod™ is an innovative, integrated pumping solution designed to pressurise or maintain the flow of water. It is a 'plug and play' solution for the water industry. The PumpPod™ can be customised to meet each customer's specification. Its primary design objective is to offer a low cost, low carbon footprint alternative to conventional booster pumping stations. It can be used in a temporary capacity for boosting pressure or for over pumping whilst repairs are carried out on existing pumping stations and networks.

Conception:

Our engineers examined conventional booster pumping station designs. We established that there were many elements of the stations that were standard. With that in mind our engineers set out to create a product range that provided a standard and replicable solution. Since then the product has gone through many stages of innovation and miniaturisation to give us a cost effective solution to a one time expensive problem - PumpPod™.

How does it work?

The PumpPod™ can be supplied as a two pump model arranged as duty assist or duty standby or as a three pump model arranged as duty-assist-assist or standby. The PumpPod™ is fitted with electrical pumps ranging from 2.0kW – 22kW and is configured to periodically switch duty pumps to maximise lifespan. The PumpPod™ offers a range of telemetry outputs which include GSM and the next generation PumpPod will avail of smartphone telemetry options.

Applications:

Water supply to networks, domestic dwellings, commercial , industrial premises, leisure complexes, shopping centres, golf courses and greenhouses. The PumpPod™ can also be used for water supply for agricultural purposes and supply to systems requiring constant pressure.

Benefits

What are the benefits of the PumpPod™ over existing solutions:

Reduced Costs:

Designed with reduced capital budgets in mind; PumpPod™ arrives on site assembled and ready to install. The PumpPod™ range is of standard design therefore you do not incur design costs each time. Its intelligent control systems alternate the use of pumps to prolong economic life span and reduce maintenance cost.

Reduced Civil & Building Work:

The PumpPod™ significantly reduces civil and building requirements as the solution arrives fully assembled in the kiosk.

Can Avoid Planning Permission:

PumpPod™ can avoid planning permission restrictions due to its small footprint. It also has aesthetic benefits over conventional installations as it is less visually intrusive.

Health & Safety Risks Reduced :

PumpPod™ is designed for safe one person working. Gas struts are installed in the lid and door stays on the cabinet to minimise the risk of injury. Isolation valves and emergency stops are integral.

Small Carbon Footprint :

Our PumpPod™ is an energy efficient pumping solution. The various pumping regimes and variable speed pumps are designed to run with minimal power usage in mind. The assist function ensures that additional pumps are only used as required. The reduction in associated civil and building works for each installation contributes to the PumpPod's™ lower carbon foot print.



Technical Information:

PumpPod™ 2 Pump Model

Model Attributes	PP201	PP202	PP203
Pump size	Up to 4KW	5.5 - 11KW	15 - 22KW
Capacity l/s	0.3 - 13	5 - 23	11 - 40
Operating Pressure (Max)	22	23	28
Length, Width, Height (mm)	1800, 800, 1309	2125, 1120, 1850	2390, 1230, 2395

PumpPod™ 3 Pump Model

Model Attributes	PP301	PP302	PP303
Pump size	Up to 4KW	5.5 - 11KW	15 - 22KW
Capacity l/s	0.3 - 39	5 - 70	11 - 120
Operating Pressure (Max)	22	23	28
Length, Width, Height (mm)	2125, 1250, 1309	2125, 1525, 1850	2390, 1655, 2415

The PumpPod™ can be customised to meet your needs. Please email info@pumppod.eu for further information.

Technical and Range Details:

Engineering:

- Vandal resistant; flush fitting handles and cover locks as specified by the end user
- Radio or telemetry modules installed as required by user

Pump Set:

- Welded stainless steel pipe work rated to 16bar (standard unit)
- Available with Grundfos CR vertical pumps
- Stainless steel isolation ball valves before and after each pump
- Stainless steel non return valve on each pump
- All ball and non-return valves are 3 piece for ease of removal
- 10L accumulator vessel
- Pressure transducer c/w isolation valve for maintenance purposes
- Pumps and pressure transducer are wired via plug and socket to the panel for easy disconnection
- Emergency stop button located in pump section

Control:

- Form II panel IP65
- Variable speed drive control of the motors
- PLC control system
- Intelligent operation via Modbus between VSD and PLC
- GSM text alert system options
- User adjustable set points for HMI
- Automatic alternation of the pumps available
- Controls can easily be set as duty, standby or duty, assist, standby
- Monitors the outlet pressure; only operates when required
- Pump running current, hours run and trips are displayed on the HMI control screen.
- Designed to provide operator friendly access during maintenance
- Adjustable set points
- PID Setting
- High/Low Pressure Alarm
- Rotation Time & Min and Max Speed of Pumps





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