

PIOVAN

Customers. The core of our innovation

Pump Sets



PumpSets

Index

Introduction.....	2
Sealed Systems	3
Open Systems	4
Controls.....	5
Flow Pressure Graphs.....	7
Arrangement Drawings.....	10

All Piovan pump sets are supplied with stainless steel pipework and flanged connections. Wetted parts on pumps are constructed in 304 stainless steel.

Bases are fabricated in mild steel with a galvanized finish.

Sets are supplied with 4 off lifting eyes.

All pump sets are supplied with flanged connections.

Although designed and constructed to complement Piovan's range of high performance cooling systems, installations from many other manufacturers can also benefit from significant energy and maintenance cost savings from these high duty units.

Retro-fitting Piovan pump sets are typically straightforward and highly recommended.

Piovan pump sets for water/glycol systems are available in the following formats:

- Open Circuit (stainless steel tank up to 1000 litres capacity) with single pump
- Open Circuit (stainless steel tank up to 1000 litres capacity) with run and standby pumps
- Closed Circuit (Diaphragm type expansion vessel) with single pump
- Closed Circuit (Diaphragm type expansion vessel) with run and standby pumps





Single – Sealed

- Inlet and outlet pressure gauges
- Auto air vent
- Pressure relief valve
- Inlet and outlet butterfly valves
- Y-Strainer.



Run & Standby - Sealed

- Inlet and outlet pressure gauges
- Auto air vent
- Pressure relief valve
- Inlet and outlet butterfly valve – 2 per pump
- Y-Strainer – 1 per pump
- Non-return valve – 1 per pump.

Open Systems

Open systems are supplied with a 360 litre tank.

Tanks include:

- Lid with handles
- Sight glass
- Drain
- Overflow
- Low level switch.



Single – Open

- Inlet and outlet pressure gauges
- Inlet and outlet butterfly valves
- Y-Strainer.



Run & Standby - Open

- Inlet and outlet pressure gauges
- Inlet and outlet butterfly valve – 2 per pump
- Y-Strainer – 1 per pump
- Non-return valve – 1 per pump.



Controls

All panels are supplied as follows:

- IP55.
- Door interlocked isolator.
- As standard, panels are mounted to pump set (as shown left) and wired to pumps.
For the same price, controls can be incorporated into the cooler panel.
- Trip lamp per pump.
- Volt free for trip per pump.
- Single pump set – 'On/Off' switch.
- Run and standby pump set – 'Off/Auto' and 'Pump1/Auto/Pump2' switches.
- Run and standby pump sets changeover on trip, as standard.

Run and standby sets can be supplied with changeover on loss of pressure. At this point Piován also include timed changeover to give even running of pumps. The changeover interval can be specified by the customer.

Piován can supply inverter control for all pump sizes. Control pressure can be specified by the customer.



Extras

Expansion Vessel

Sealed systems can be supplied with a 100 litre expansion vessel fitted to the pump set.

This will increase the base size.
See drawings on pages 10-11.

The expansion vessel will be plumbed into the pump inlet line.



Pump Isolators

Isolators can be supplied for Piován pumps.

These are mounted on the base, local to each pump.

Painting

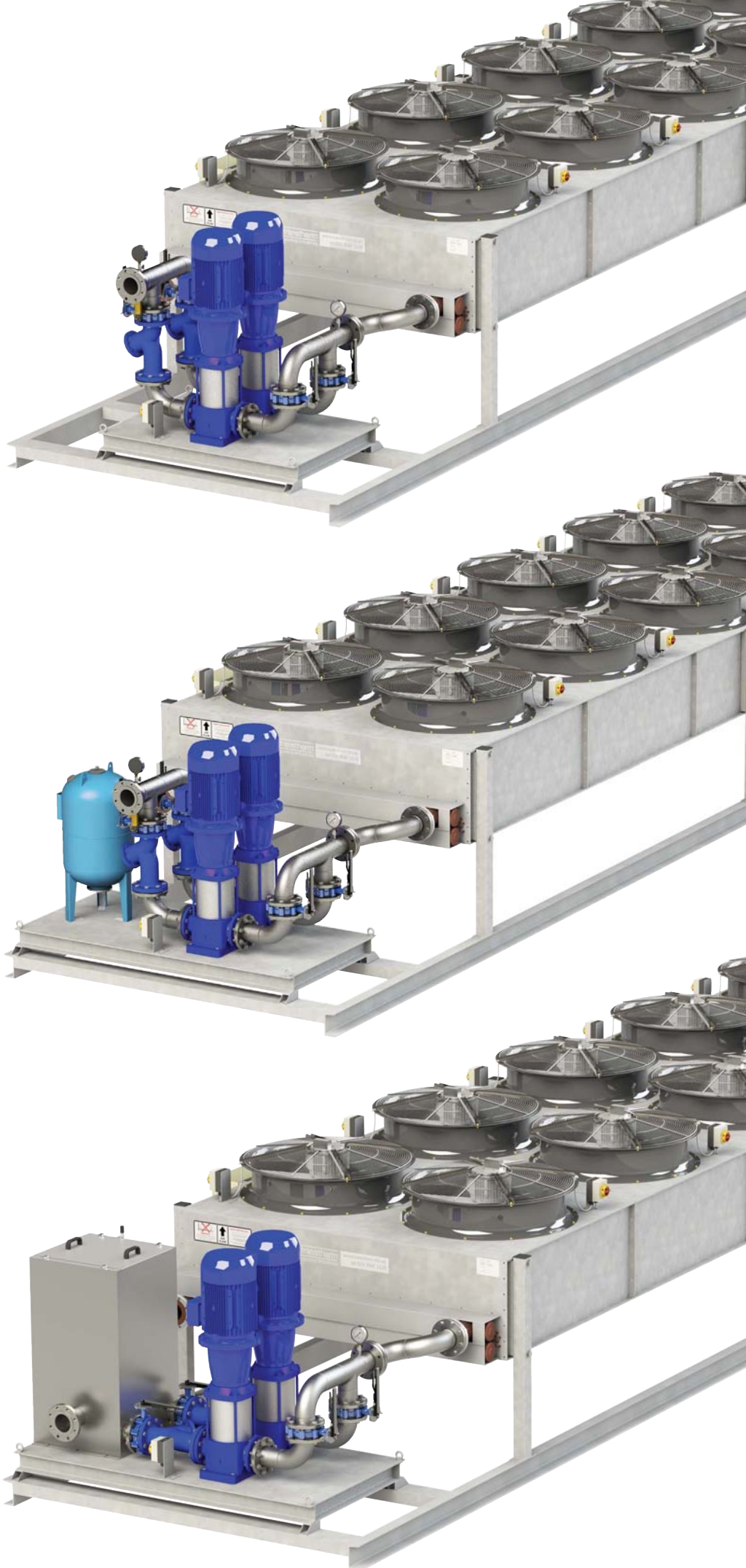
Pump sets can be painted to customer requirements (RAL or BS). If needed, pipework and base can be painted different colours.

Packaged Flatbed Cooler and Pump Set Arrangement

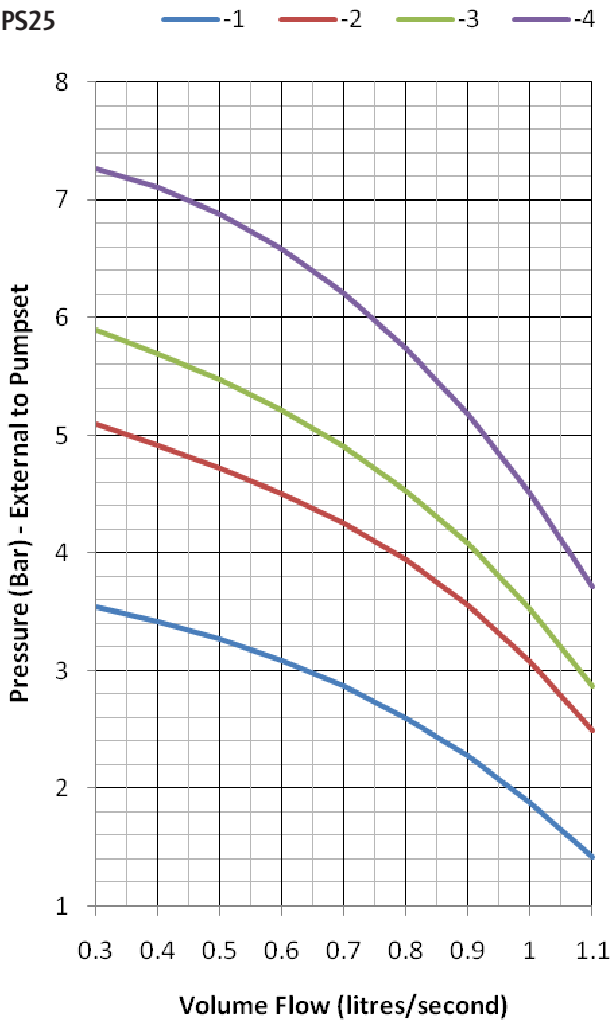
Piovan offer the option to mount their range of flatbed coolers and pump sets on a common base with inter-connecting pipe work and controls giving single inlet and outlet water connections and a single power supply requirement where cooler and pump set controls are housed in a common control panel.

This unique packaged option gives Piovan customers the potential for reduced site work costs and a single point of responsibility, further enhancing the company's ability to offer 'fit and forget' solutions.

As standard the pump set is mounted at the connection end of the cooler but, where space is at a premium, there is also the option to mount the pump set underneath the cooler with the use of extended cooler legs and bracing.



PS25



Flow Pressure Graphs

Model Breakdown

PS80-3-SS

Pump set connection sizes, ranging from DN25 to DN125

PS80-3-SS

Pump selection based on flow and pressure requirements. See graphs

PS80-3-SS

Pump set type:

S = sealed

E = sealed with expansion vessel

O = open, with tank

PS80-3-SS

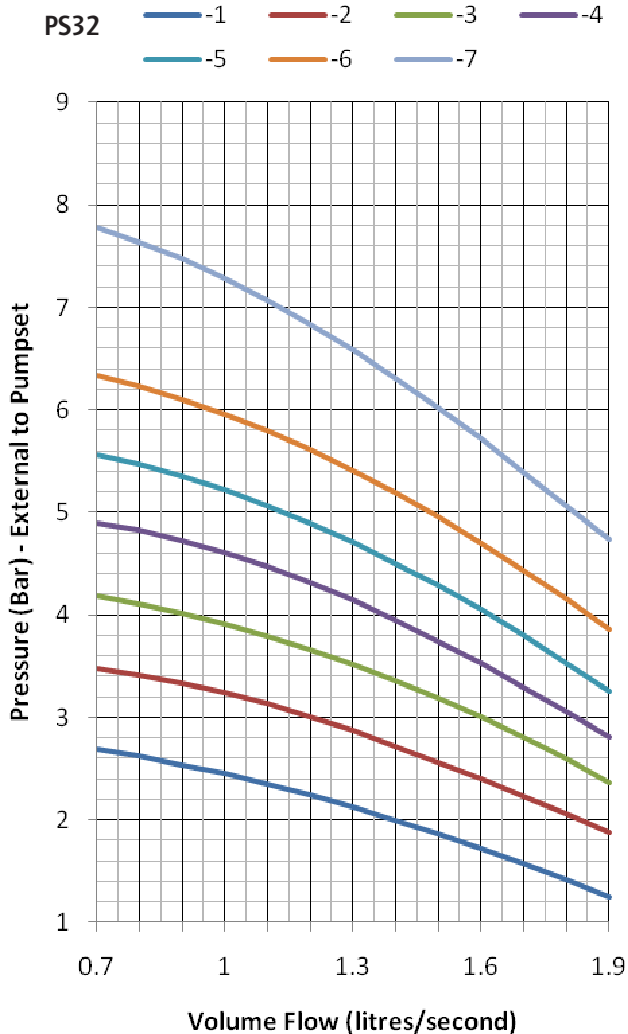
S = single pump set

D = double (run-and-standby) pump set.

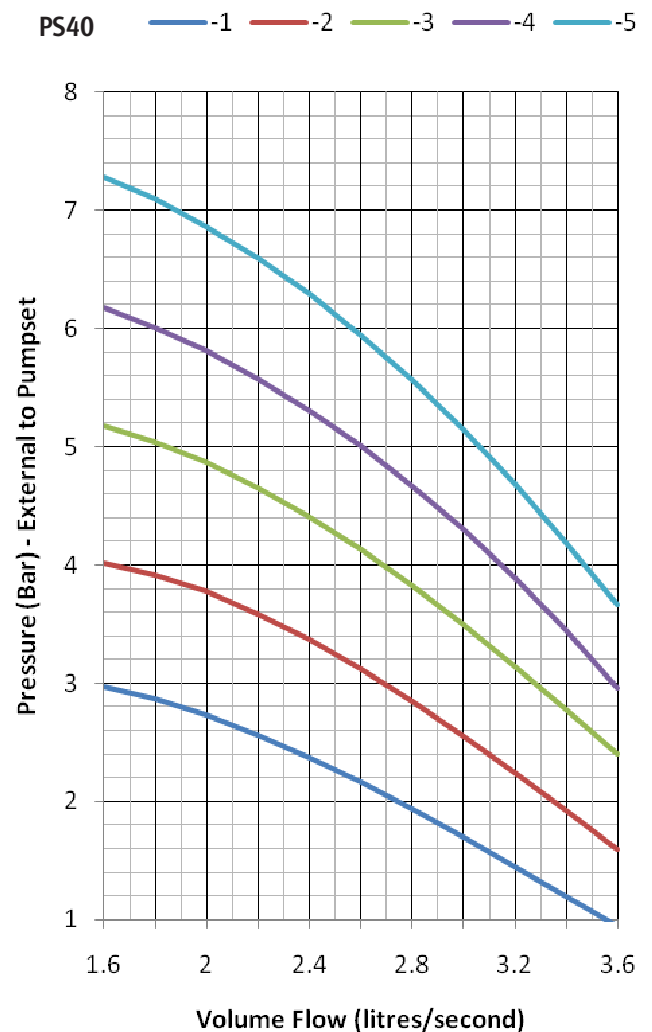
Note: pump performance is based on 100% water.

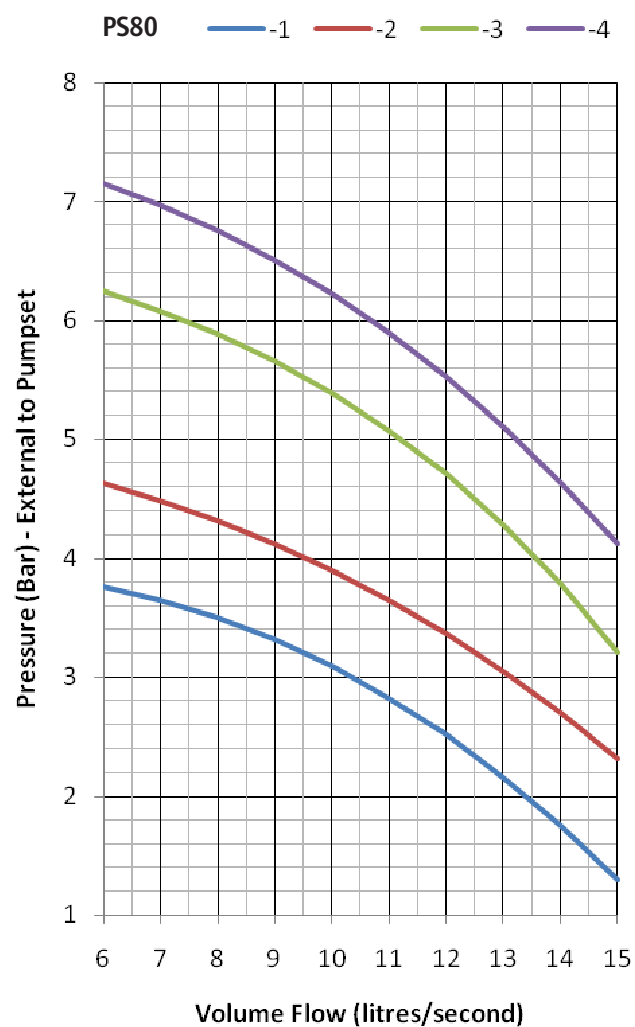
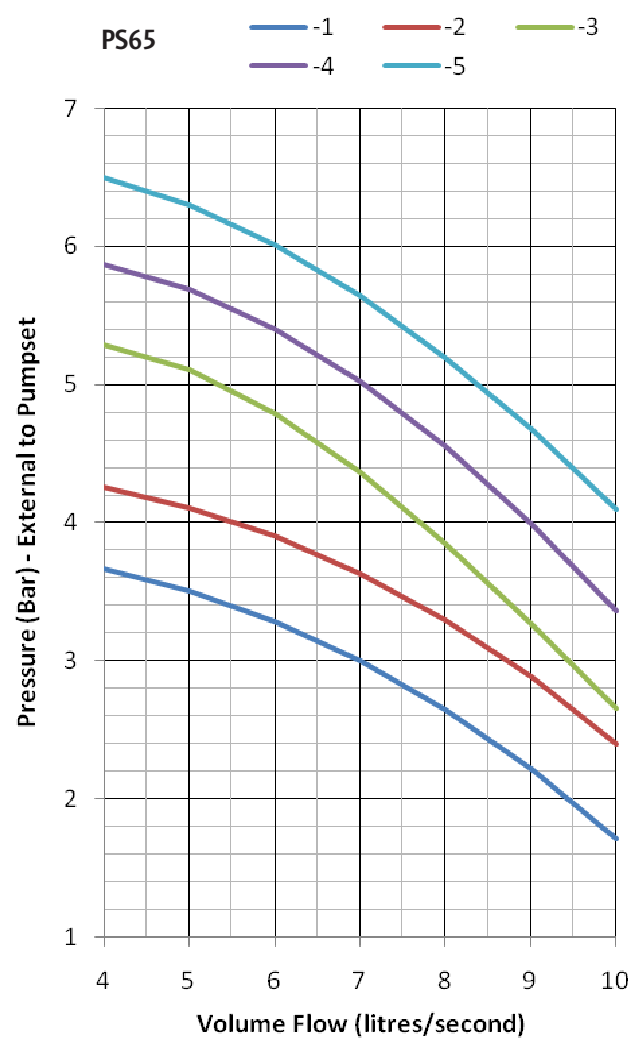
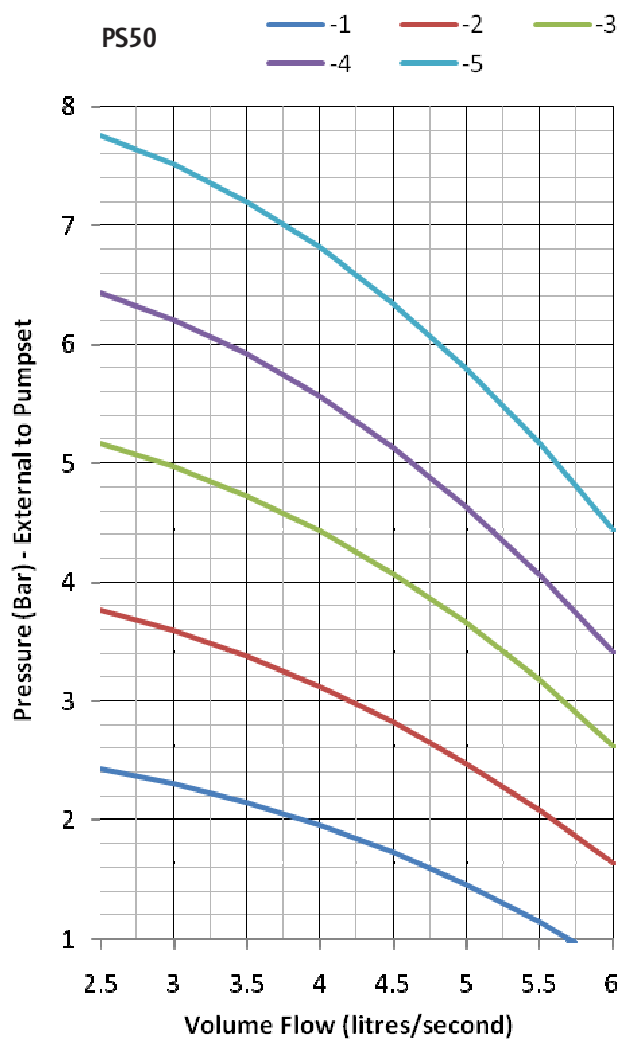
Please contact us for selections which include glycol.

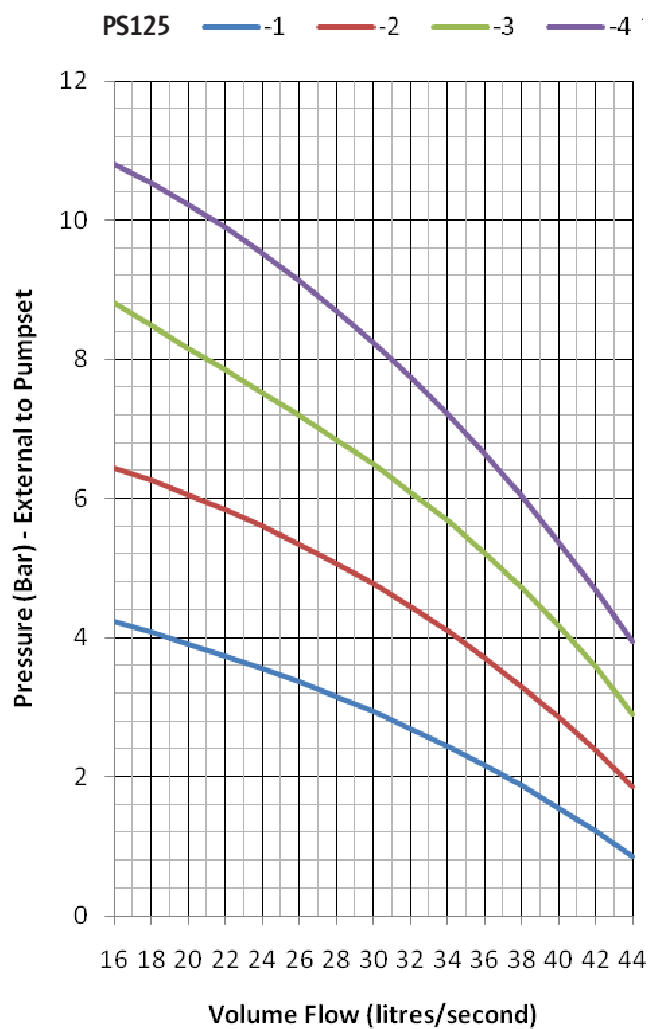
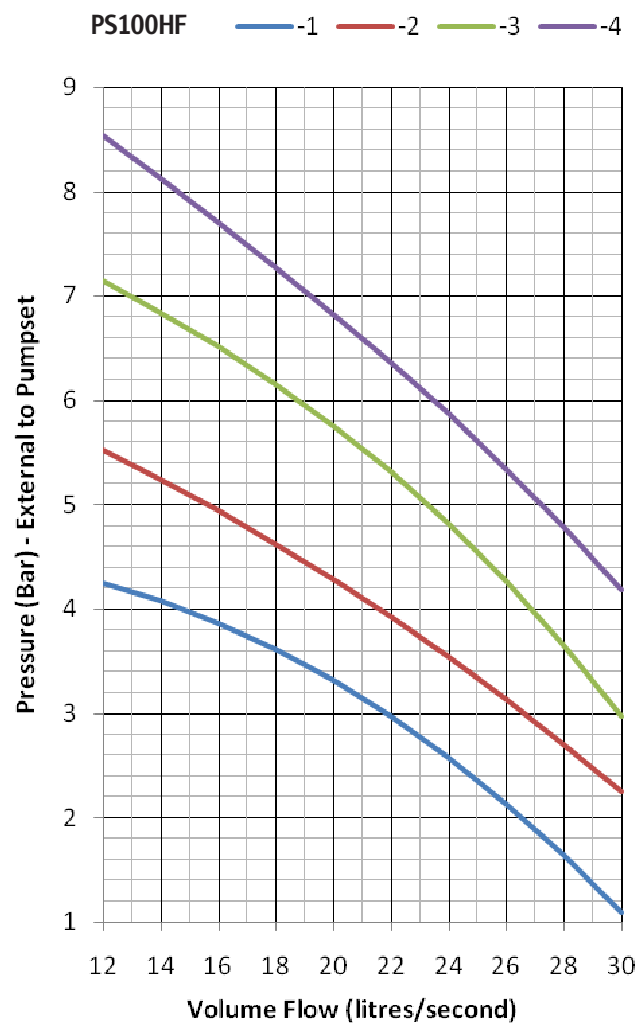
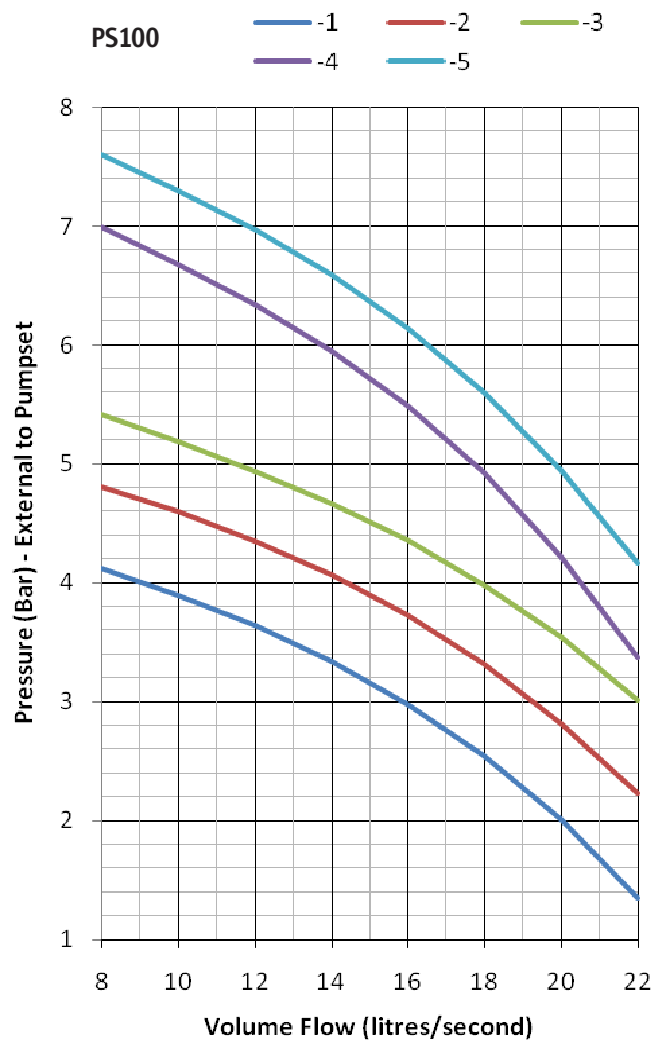
PS32



PS40

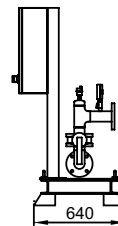
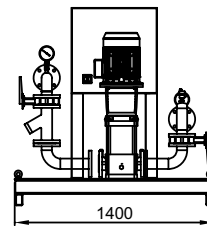
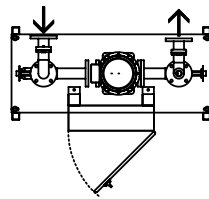




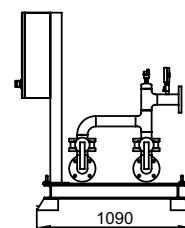
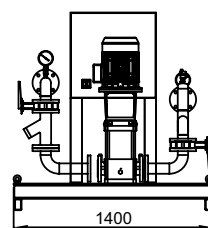
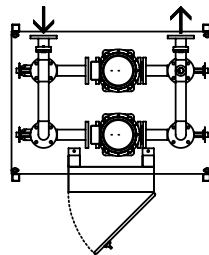


Arrangement Drawings DN25-DN100

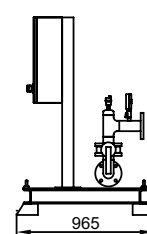
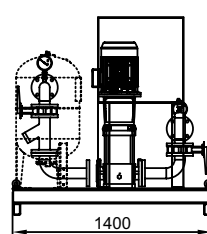
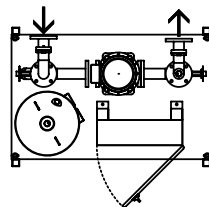
PS_ _ _-SS



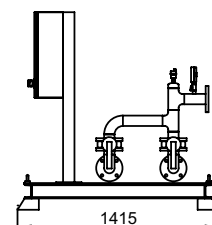
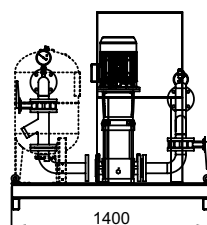
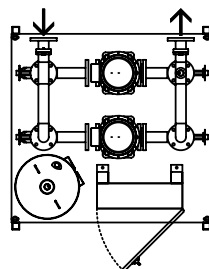
PS_ _ _-SD



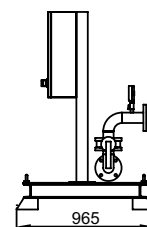
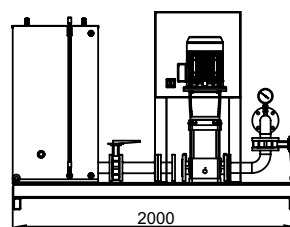
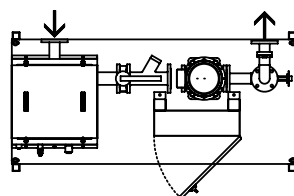
PS_ _ _-ES



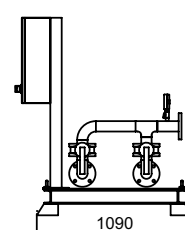
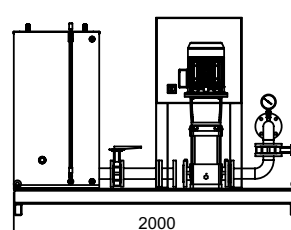
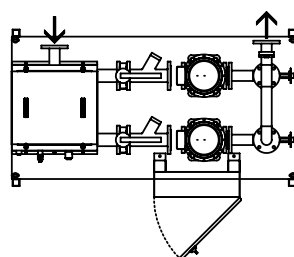
PS_ _ _-ED

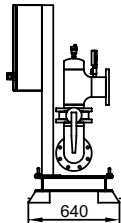
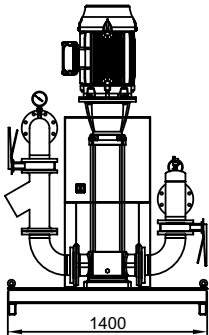
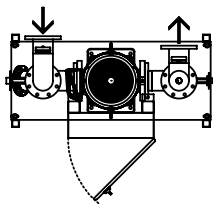


PS_ _ _-OS

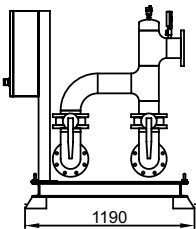
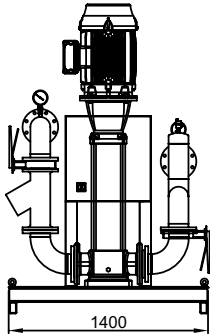
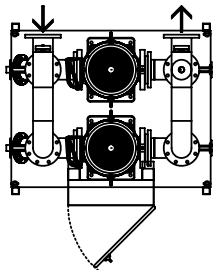


PS_ _ _-OD

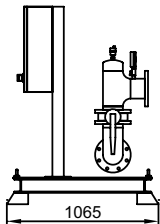
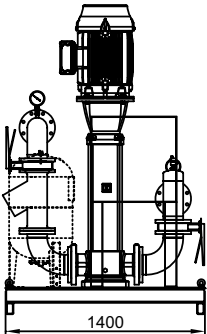
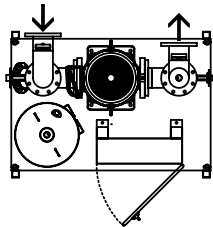




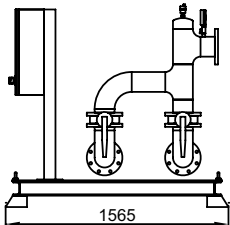
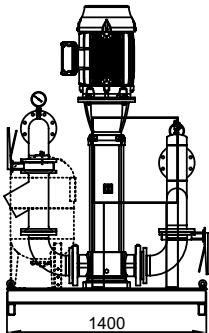
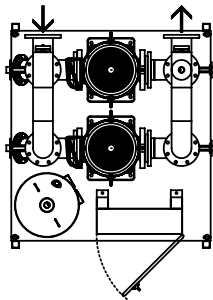
PS125-SS



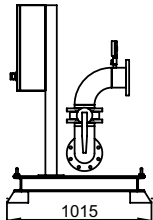
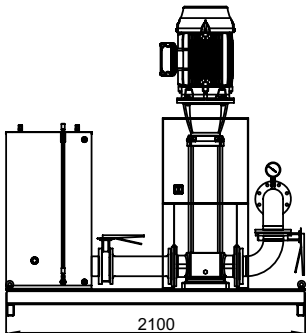
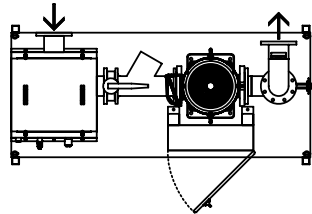
PS125-SD



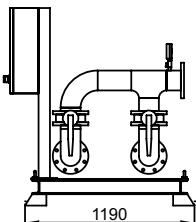
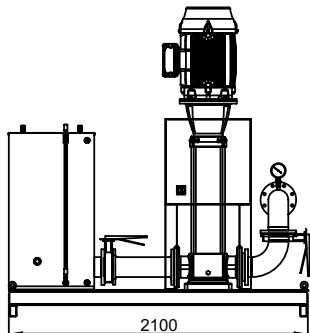
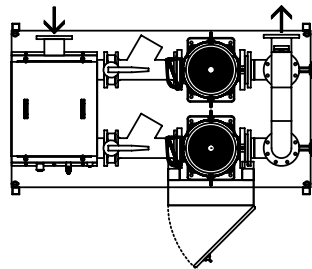
PS125-ES



PS125-ED



PS125-OS



PS125-OD

Piovan UK Limited

Unit 7B, Silver Birches Business Park
Aston Fields, Bromsgrove B60 3EU
Worcestershire, United Kingdom

Telephone: +44 (0)1527 879419

Fax: +44 (0)1527 879504

www.piovan.com

PIOVAN

Customers. The core of our innovation

Registered address as above
Registered in England No 05333134

