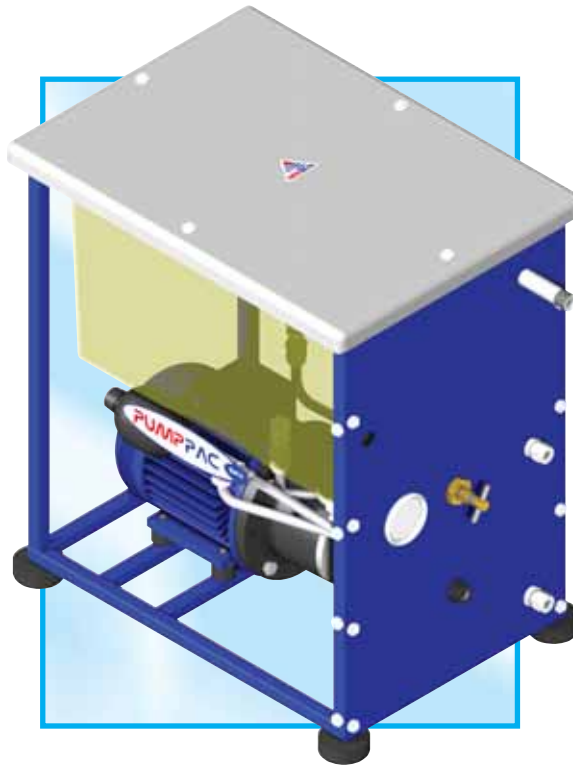




ENVIRONMENTAL TECHNOLOGY

## PUMPPAC-SWU™



### FEATURES

**INDEPENDENT PRESSURIZED  
WATER SUPPLY SYSTEM**

**HIGH PRESSURE CAPABILITY**

**USES THE SAME PROVEN TECHNOLOGY AND  
MODULAR DESIGN AS THE STANDARD  
AESSEAL® PUMPPAC RANGE**

### BENEFITS

- REMOVES THE EXPENSE OF PIPING A HIGH PRESSURE AND CLEAN WATER SUPPLY TO A NEW AREA OF THE PLANT

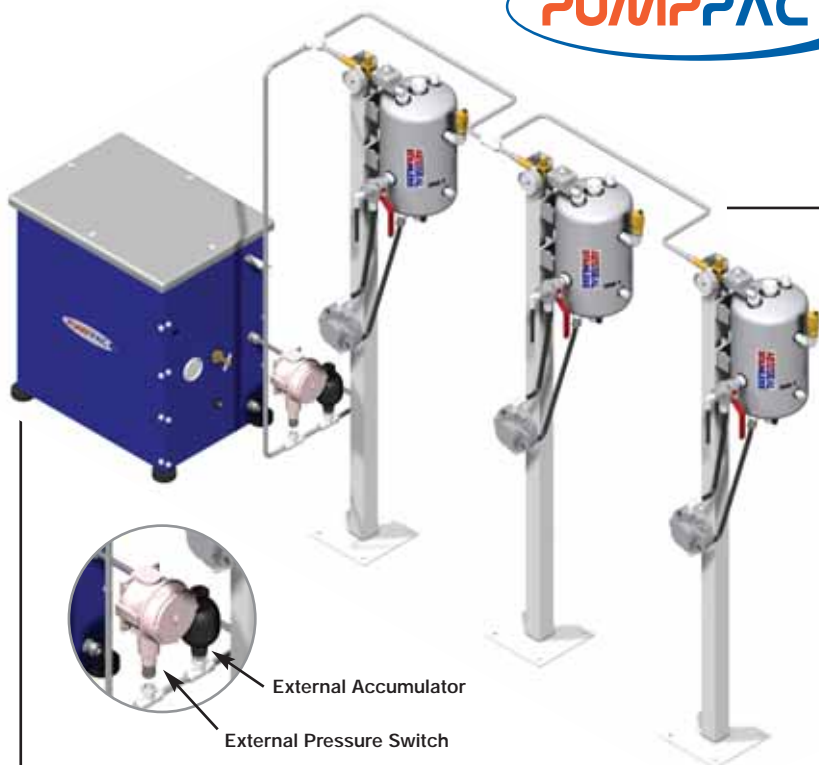
- THE SWU CAN BE USED TO SUPPORT MULTIPLE SEAL SUPPORT SYSTEMS (70 BAR / 1,000 PSI MAXIMUM PRESSURE CAPABILITY)

- THE PUMPPAC-SWU™ CAN BE INSTALLED IN A VARIETY OF ENVIRONMENTS BY INTERCHANGING THE INSTRUMENTATION OPTIONS





## PUMPPAC-SWU™ Closed Circuit Pressurized Water System



The PUMPPAC-SWU™ (Special Water Unit) is an independent pressurized water supply system for areas of a plant where a high quality, pressurized water supply is not available. The SWU is used to supply a number of Water Management Systems (the number depends on the application specifics) which in turn support mechanical seals. Please note: the SWU cannot be directly connected to a mechanical seal.

The SWU is not designed to run continuously, only operating to charge the circuit with the necessary water pressure to feed the seal support systems. In order to achieve this it is necessary to install an external accumulator and pressure switch. The accumulator holds the water pressure in the circuit and the pressure switch detects a drop in water pressure. When the pressure drops the pressure switch activates the SWU which will then recharge the circuit to the necessary water pressure.

N.B. An external accumulator and pressure switch are essential to the correct operation of the PUMPPAC-SWU™. However, due to varying customer and application requirements, they are specified separately and are not included in the standard offering.

Figure 1 - PUMPPAC-SWU™ Independent Ring Main System.

### Standard Offering:

- **Fiber Glass Tank** - Capacity 45 liter / 11.9 US Gallons
- **Motor** - Aluminium body, weather proof construction, electrical rating 3 phase 0.55KW / 0.74Hp - 220/480V 50/60 Hz, 4 pole - 1,400 / 1,680 rpm
- **Pump** - Cast iron twin plunger pump, rating 9 liter / 2.4 US Gallons per minute
- **Pressure Control Valve** - Nickel plated brass needle valve, 5-50 bar / 72-725 psi pressure adjustment
- **Pressure Gauge** - 0-60 bar / 0-870 psi, glycerine filled
- **Auto Re-fill Valve**
- **Internal Accumulator**
- **Orifice Plate** - Brass construction
- **Check Valve** - Stainless steel

### BARRIER & BUFFER FLUID SYSTEMS FOR USE WITH DOUBLE MECHANICAL SEALS

AESSEAL® supplies an extensive range of barrier and buffer fluid systems for use with double mechanical seals. Wherever possible AESSEAL® prefers to supply both the seal and the system. In addition the company will suggest suitable barrier or buffer fluids for most applications, based on extensive field experience.

AESSEAL® accepts no responsibility for any problems associated with system design, installation, operation, or the use of an unsuitable barrier or buffer fluid, where the fluid, seal or any part of the system have not been specified and/or supplied by AESSEAL®.

THIS DOCUMENT IS DESIGNED TO PROVIDE DIMENSIONAL INFORMATION AND AN INDICATION OF AVAILABILITY. FOR FURTHER INFORMATION AND SAFE OPERATING LIMITS CONTACT OUR TECHNICAL SPECIALISTS AT THE LOCATIONS BELOW.



USE DOUBLE MECHANICAL SEALS WITH HAZARDOUS PRODUCTS. ALWAYS TAKE SAFETY PRECAUTIONS:

- GUARD YOUR EQUIPMENT
- WEAR PROTECTIVE CLOTHING



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**Our Purpose:** *'To give our customers such exceptional service that they need never consider alternative sources of supply.'*

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