

AquaTech Pressmain

HEATING & CHILLED SYSTEM PRESSURISATION UNITS



SR2 H.T.H.W SERIES

SR2

For H.T.H.W AND M.T.H.W. Systems and manufactured to the highest specifications to ensure safe pressure control.

System flow temperature up to 200°C

System working pressures up to 20 Bar

DESIGN

Pressure vessel/s hold a nitrogen cushion which expands and contracts to maintain system pressure. The vessel/s size would depend on system water content and temperature. Two suitably sized pumps would be included. A comprehensive control panel is provided containing pump starters and auto-pump change over unit, together with failsafe controls for high/low pressure and low vessel water levels, complete with visual and audible alarms with volt free contacts for B.M.S.

The pressure vessel/s are not intended to contain the total system expanded water. A separate spill/fill tank is provided for this purpose.

OPERATION

The SR2 pressurisation unit will cope with all the pressure fluctuations under normal working conditions in M.T.H.W. AND H.T.H.W heating systems, ensuring that no flash steam or safety valve operation occurs. In the event of a serious plant failure the SR2 unit will immediately shut down the heat source and operate an integral alarm system.

The SR2 unit is designed with over 30 years of experience to ensure minimal operation of pumps and expansion valves under system operating conditions within the normal boiler control range.

All system expansion water is accommodated within the AquaTech Pressmain sized integral tanks.

TECHNICAL DATA

- This pressurisation unit is suitable for system temperatures of up to 200°C and pressures of up to 20 Bar.
- Pressure vessel manufacture would be to PD5500 with Lloyds insurance inspection and certification.
- Expansion valve operation would be electrical, magnetic or pneumatic.
- The safety features of the equipment include visual and audible alarms for high and low pressure.
- The pressure vessel sensor will detect pre-low level, low level and high level water.
- Volt free contacts for the above alarms and boiler lockout are available.
- A suitably sized safety valve is included
- Option for low water level float switch in spill tank.
- General layout design of the equipment to suit site access and plant room availability.
- Infinite variations to electrical controls are available upon request.
- The completed unit will be painted
- As with all our equipment, a very thorough testing sequence would precede the delivery to site.
- Certification of this is available.

AquaTech Pressmain design and development programmes are continuous; we reserve the right to make any changes to this specification without prior notice.



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