

PRESSURIZATION UNIT

Pressurisation units for sealed heating & chilled water systems.

The Grand Pressurization Unit (PU) Series are designed to make up any losses due to system leakage and to maintain the initial system design fill-pressure in sealed LTHW, MTHW or Chilled Water systems. PU units are designed for applications where there is a need to pressurise and provide make-up for sealed systems within a building network communication.

SEALED SYSTEM ADVANTAGES

- Units comply with BS7074
- Fully packaged units
- Comprehensive electrical/electronic control systems
- Full on-board service facilities

Conventional heating systems are provided with a feed and expansion tank, normally positioned above the highest point in the system. This feeds the system with water, accommodates expansion and replaces losses due to evaporation. With this type of arrangement air is absorbed into the water with resultant corrosion of heat exchangers, pipe work and boilers.

A sealed system limits air intake and corrosion to a minimum and only needs fresh water make-up to replace any losses caused by leakage. The conventional header tank, with its housing, associated pipe work and lagging, is dispensed with and atmospheric contamination is excluded. Higher flow temperatures may be used in sealed systems which, with larger temperature drops, permit lower water circulation rates, smaller pumps and reductions in pipe work sizes, all with obvious cost-savings.

EASY TO INSTALL AND SERVICE

The attractive enclosure has front access to the pumps and control panel. Service and maintenance points are available for commissioning and maintenance. Piping configuration is such that it will allow the standby pump (twin-pump units) to continue operating even if one pump is completely removed for servicing.

EXPANSION VESSELS

Fabricated steel construction, complying with CE certification, either with a fixed or removable diaphragm. All vessels are suitable for maximum working pressures of up to 10 bar and max. water working temperature 100°C.

Minimum information required for sizing expansion vessels & pump.

- Total system volume
- Static Head of system above pressurization unit
- Min. & Max water temperature
- Single or duplex system

