

WM1E

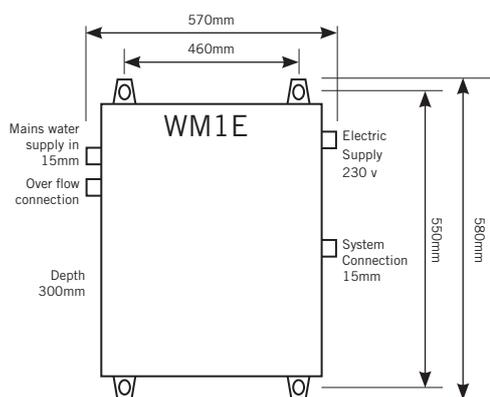
Heating and chilled water pressurisation equipment

The WM1E is a single pump wall mounted heating or chilled water pressurisation unit, suitable for cold fill pressures up to 3.0 bar (30 Metres).

The WM1E is supplied fully assembled and tested, requiring only the connection of pipework and provision of a suitable electrical supply.



Dimensions



Weight

Dry weight 23.5Kg.
Wet weight 30.5Kg.

The WM1E automatically controls the pressure in a sealed system. The unit is permanently connected to the heating system delivering water at a predetermined pressure.

Once the system has been initially filled via a Quick Filling Loop the unit will take over and maintain the optimum system conditions.

Should a loss of water occur in the system, for any reason, the pressurisation unit will detect a drop in pressure and automatically start the pump to refill the system, restoring it to the original cold fill pressure.

Used in conjunction with correctly sized WES expansion vessels, the WM1E will maintain optimum system conditions, safeguarding any type of heating or chilled water system.

Location

The WM1E should be wall mounted in a dry, well ventilated position, protected from extremes of heat and cold. The unit should be secured with fixings, to suit wall type, utilising the four mounting points provided.

Pipe installation

Isolating valves should be fitted to both the feed water supply and the system connector. It is recommended that a quick fill loop is fitted to facilitate initial filling.

Feed water supply

1/2" BSP 15mm pipe connection to float valve. The float valve feeds a 9 litre plastic break tank, complying with the requirements for a type

"A" air gap. The Valve is supplied with a flow restrictor which may be fitted to reduce over spill in the event of valve failure.

System connection

1/2" BSP 15mm pipe connection.

Electrical connection

The WM1E should be connected to a 240 volt 50 Hz single phase supply via a fused switched outlet fitted with a 3 Amp fuse.

Cold fill pressure

The WM1E is factory set to provide a cold fill pressure (equivalent to a static head of 15 metres).

Commissioning

Before operating the unit ensure electrical isolation and check for correct operation of float valve, adjust if necessary. Ensure all fittings are free from leaks, release the vent plug on the pump body, until all air has been expelled. Warning: Do not over tighten the vent plug as this may lead to damage and leakage.

Periodic maintenance

Adjust cold fill pressure as necessary. Examine and clean float valve filter as necessary. WES recommend and can offer on-site commissioning and annual maintenance service.

The WES WM1E incorporates:

Totally enclosed steel cabinet finished in Polyester epoxy paint to RAL-7032.

A single prewired peripheral pump, mechanical seal, impellor and bronze body fitted.

9 ltr preformed plastic break tank, WRC approved float valve assembled to comply with the requirements for a type "A" air gap.

Pressure transducer of 0 -10 BAR, 4 - 20mA.

Volt free alarm contact for BMS system.

Digital display controller PIB-M-001-Ektron.

Optional extras

WES expansion vessels 25 ltr - 5,000 ltr.

Floor mounting chassis for use where wall mounting is inappropriate.

High pressure pump options available upon request.

Optional high low pressure switches.