

# WM2E

## Heating and chilled water pressurisation equipment

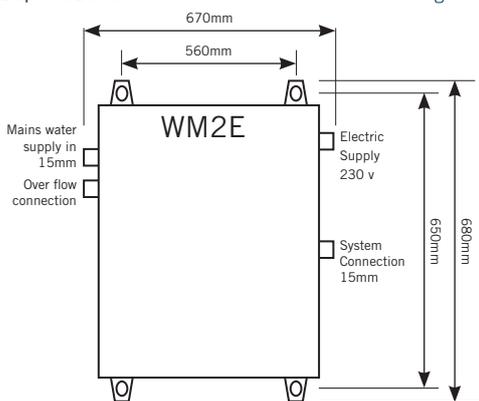
The WM2E is a twin pump duty standby wall mounted heating or chilled water pressurisation unit, suitable for cold fill pressures up to 3.0 bar (30 Metres).

The WM2E is supplied fully assembled and tested, requiring only the connection of pipework and provision of a suitable electrical supply.



### Dimensions

Depth 315mm



### Weight

Dry weight 40Kg.  
Wet weight 49Kg.



The WM2E 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 WM2E 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 set pressure. Should the duty pump fail to start for any reason, the standby pump will automatically take over the duty function. The control system incorporates a device to rotate the starting sequence of each pump, during normal operation.

Used in conjunction with correctly sized WES expansion vessels, the WM2E will maintain

optimum system conditions, safeguarding any type of heating or chilled water system.

### Location

The WM2E 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. If wall construction is inappropriate to carry 35kg the optional floor mounting chassis (ZG0113) should be used.

### 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 WM2E 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 WM2E in 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 WM2E incorporates:

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

Two prewired peripheral pumps mechanical seal, impeller and bronze body fitted.

9 ltr moulded 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.

### Optional extras

Floor mounting chassis for use where wall mounting is inappropriate.

WES expansion vessels 25 ltr - 5,000 ltr.

High pressure pump options available upon request.

Optional high low pressure switches.