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## **THERMflow THERMAL STORAGE UNIT BOILER TYPE**

**THERMflow** is a primary water, thermal storage unit, which supplies mains pressure hot water at flow rates in accordance with the requirements of BS6700.

Thermostatic mixer showers will give the optimum showering performance and all taps etc. should be checked to ensure they are suitable for mains pressure.

### **IMPORTANT**

#### **Mains Cold Inlet Pressure and Flow Rates**

A minimum of 2.0 bar incoming pressure is recommended and a pressure reducing valve is required if the pressure is over 5 bar. The mains supply to the unit should be in a minimum of 22mm diameter. The Domestic Hot Supply should also be taken off in 22mm although 15mm spurs can be taken off to other terminal fittings. If the flow rate exceeds 25 Litres/minute at the taps, it should be restricted.

#### **Suitable Boilers**

THERMflow can be used with most boilers e.g. Gas, oil, solid fuel, electric and electric immersion heater. It is only suitable for a fully vented primary system.

#### **FERNOX/Anti-freeze**

The above should be added in the normal way, taking into account the capacity of the THERMflow which is part of the Primary system.

### **COMMISSIONING - Boiler Type**

The Boiler connections are located on the side of the unit, one at the top and one at the bottom. The Space Heating connections are located on the side of the unit, both towards the base, connect these to the radiator circuit.

Connect the mains to the non-return valve and turn the mains on. Allow the Primary System to fill slowly via the feed and expansion tank. **CHECK FOR LEAKS THROUGHOUT.**

All normal procedures for a Vented Primary System apply. Drain system, hot flush and re-fill. Add Fernox etc. as normal taking into account the THERMflow volume, which is part of the primary system. Re-bleed radiators and high points of pipework.

#### **CHECK FOR LEAKS THROUGHOUT SYSTEM.**

Set the boiler pump to its highest speed setting. Set the boiler thermostat and also the cylinder thermostat to maximum. Fire the boiler on the Hot Water Only setting and wait until the boiler goes off. Turn the cylinder thermostat down slowly till it clicks off then turn it down by about 2 degrees. This should mean that the cylinder thermostat on the Thermal Store controls the system. This can be checked by running off some hot water, re-firing the boiler and checking that the cylinder thermostat is in control.

Check that the hot water at the taps is a suitable temperature for the householder. The temperature can be increased or decreased by adjusting the factory fitted mixing valve.

Finally adjust the pumps to give maximum flow without excessive noise.

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