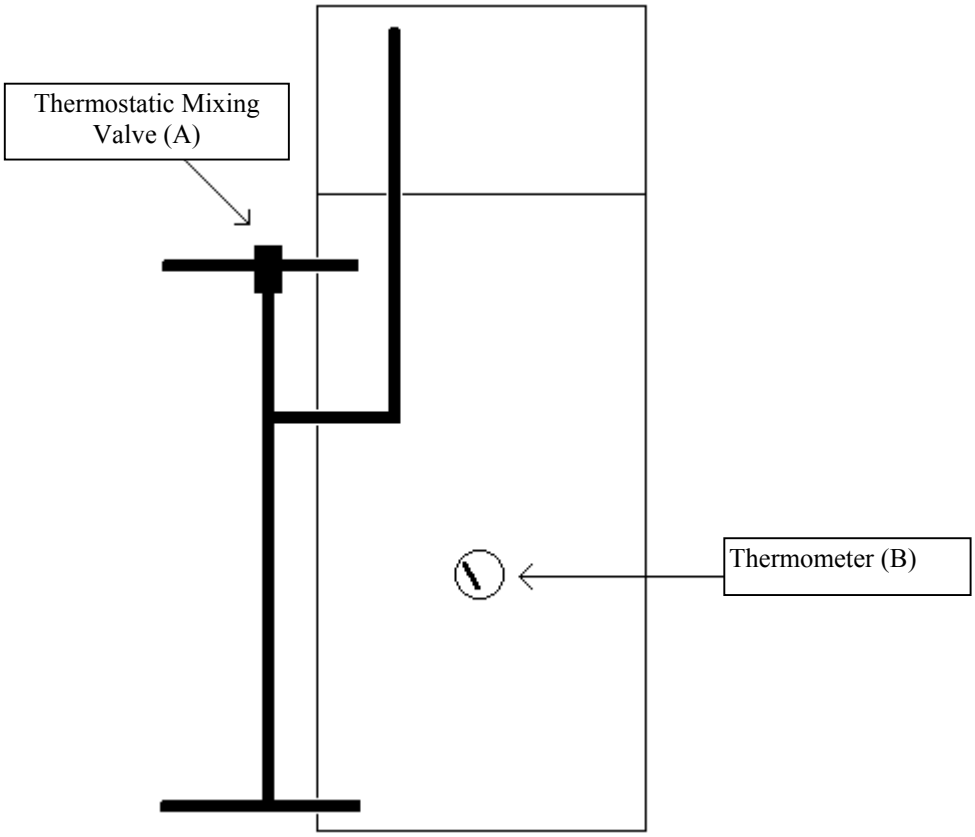
McDonald Engineers
THERM*flow* Thermal Storage System

User Instructions/Information

PLEASE KEEP WITH CYLINDER



Commissioning

The system should have been commissioned by the installer according to the Commissioning Instructions.

Once commissioned there should be no need to alter the settings of the cylinder.

The system is commissioned properly when the store has reached between 75 and 80°C and there is hot water available at all the hot outlets.

USER OPERATION.

The cylinder is designed to work best when the store temperature is at or approaching 80°C. The cylinder can provide hot water at lower store temperatures but available flow rates and volume will be reduced.

If white meter electricity is used to heat the cylinder then the immersion heaters should be left plugged in and switched on at all times. They will only reheat the cylinder when either there is cheap rate electricity available or when the boost switch is operated. The thermostats in the immersion heaters will switch the immersion heaters off automatically once the correct temperature has been reached.

If the unit is heated from a gas or oil boiler then the system should be set to hot water priority and left on at all times. The boiler thermostat should be set to maximum.

TROUBLESHOOTING:

Symptom:

The water at the tap is luke-warm or cold.

Remedy:

1. Check that the store is at or approaching 80°C. (The temperature is shown on the thermometer - B). If not, ensure that the boiler/immersion heaters are switched on. The unit must be allowed sufficient time for the store to reach working temperature.

2. If the store is at or approaching 80°C, check that the Thermostatic mixing valve is turned to hot. The maximum temperature of water from this valve is 55°C.

3. If the valve is turned fully to hot, check that the flow rate at the tap does not exceed 20 Litres per minute. If the flow rate is above this, then turn the tap down slightly.

The temperature of the water at the taps depends on the flow rate. This means that the faster the water flows, the cooler the water will be. Too high a flow rate will result in luke-warm water.

If any problems arise not covered by this document please contact the installer.