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WRAS TEST & ACCEPTANCE CRITERIA

Issue No: 1
Date of issue: August 2005

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TEST CODE SHEET

1. TYPE OF TEST(S)

Unvented hot water storage system overheat test.

2. WATER REGULATIONS REQUIREMENTS FOR FITTINGS

Schedule 2

24. No supply pipe or secondary circuit shall be permanently connected to a closed circuit for filling a heating system unless it incorporates a backflow prevention device in accordance with a specification approved by the regulator for the purposes of this Schedule.

3. BRITISH STANDARDS OR WATER SPECIFICATION, DEEMED TO SATISFY WATER REGULATIONS REQUIREMENTS

3.1 Fittings with 'kitemarks' which are deemed to satisfy the requirements of regulations are listed in the directory.

4. TEST PROCEDURE

4.1 Tests are applicable to the following fittings:

SINGLE FEED, MAINS WATER SUPPLY PRESSURE, UNVENTED HOT WATER STORAGE SYSTEM

(A) SINGLE FEED, MAINS WATER SUPPLY PRESSURE, UNVENTED HOT WATER STORAGE SYSTEM

TEST METHOD

Carry out the following procedure on the indirect and direct units and packages.

1. Install the apparatus as stated in the manufacturers instruction manual and Diagram 1 (for indirect apparatus) and Diagram 2 (for direct apparatus) with all safety cut-outs by-passed.
2. Add 0.5 litres of fluroscene into the primary side of the cylinder.
3. The temperature within the vessel shall be increased until the temperature relief valve opens.
4. Measure the temperature of the stored water at the top most part of the vessel.
5. Control the primary flow temperature at $110 \pm 3^{\circ}\text{C}$.

This test shall be conducted on the largest sized vessel within the range and stopped after one cycle has been completed.

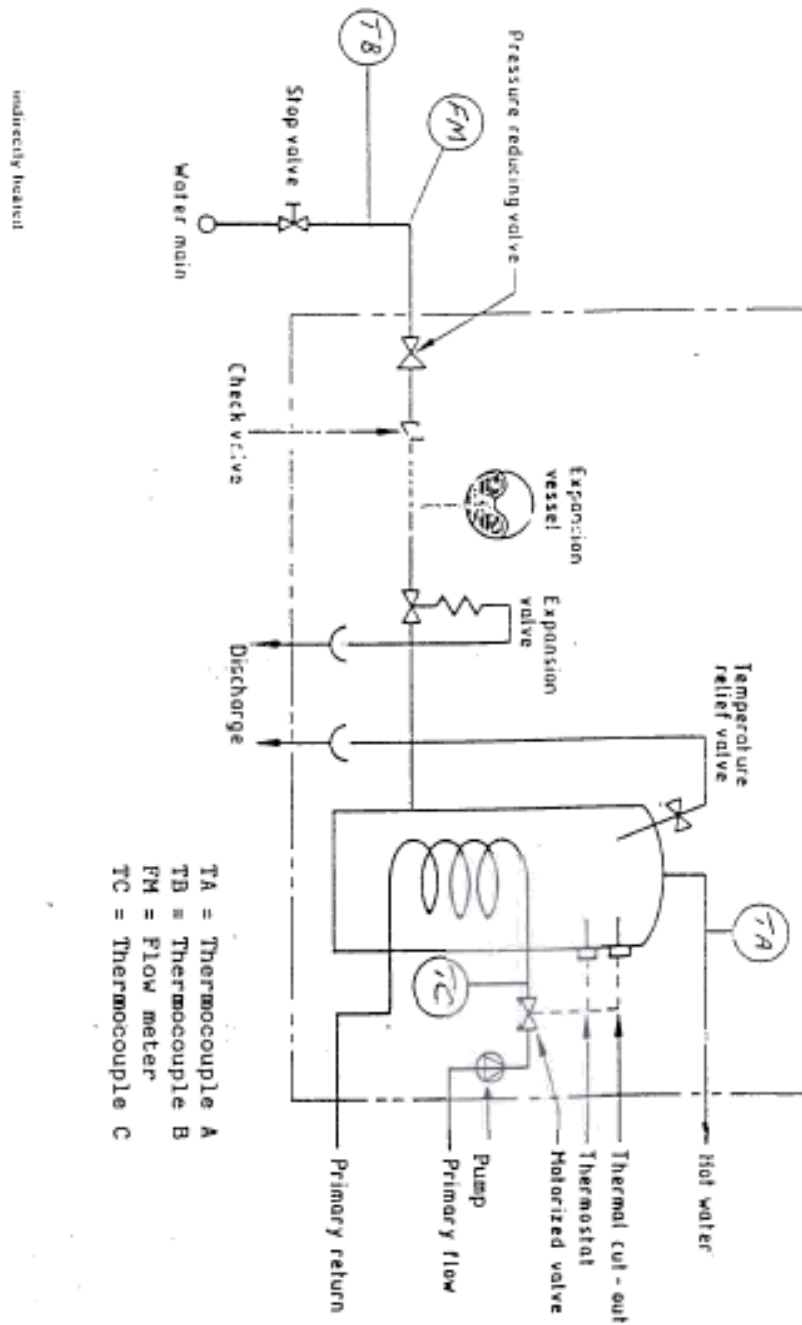
5. ACCEPTANCE CRITERIA

In all cases when carrying out the above test, the stored water at the top of the vessel shall not exceed 99°C.
No mixing of the primary and secondary waters shall occur, as shown by the absence of fluroscene in the secondary water.

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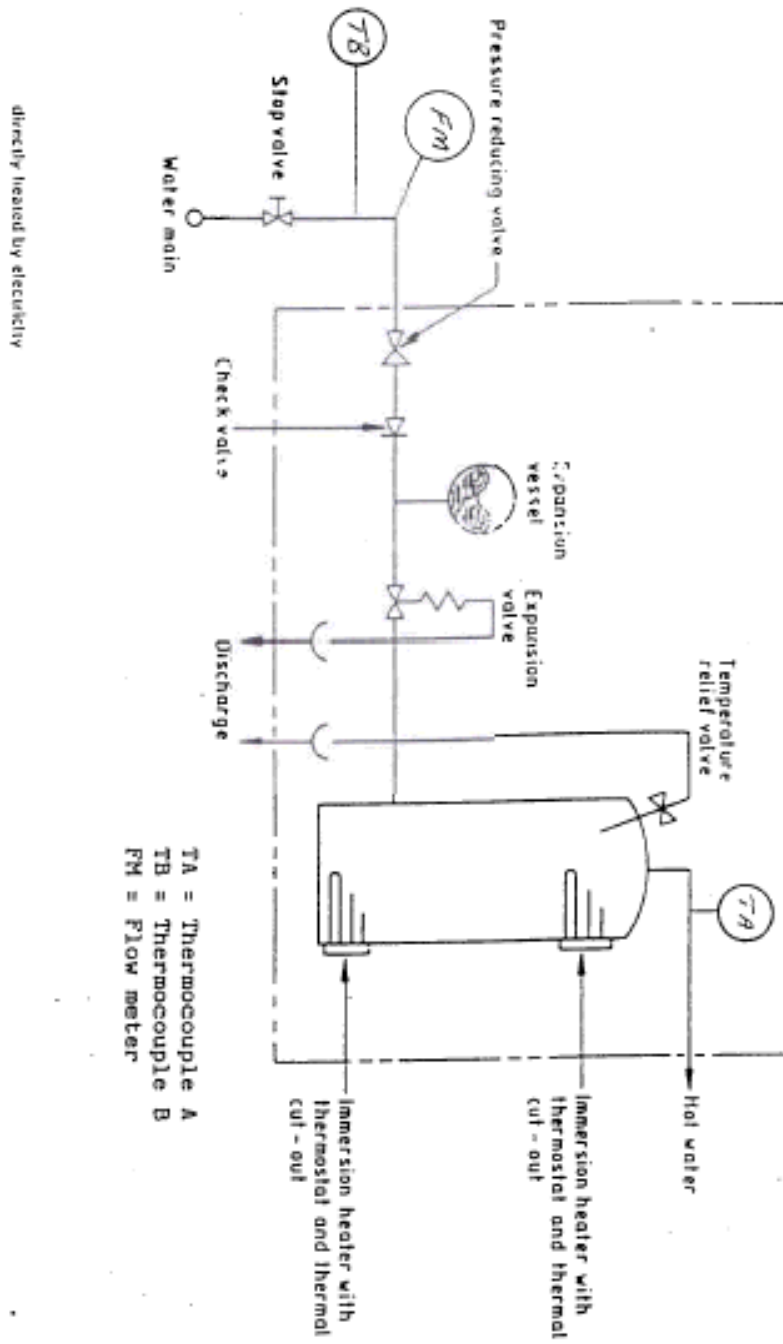


DIAGRAM 2.

