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DW5380 PLASTIC PIPE THERMAL CYCLING TESTER



Model No.:

DW5380

Application:

DW5380 Plastic Pipe Thermal Cycling Tester is mainly used to determine the leakage status of composite pipes & fittings when subjected to specified cycles of temperature alternation (alternation of cold water and warm water) under specified internal pressure load. It consists of sample chamber, cold water tank (with chiller & heat exchanger), hot water tank with heaters and electric control panel.

Related Standards:

STANDARDS

ISO 10508

ASTM F1335

Features:

- Lockable transparent folding doors make samples installation more easily and allow easy access to all samples from three sides;
- Testing control and monitoring of individually station takes over PLC and touch screen terminal. Testing results are easily transferred to Microsoft Excel for further processing;
- Individual circulation time, flow rate and pressure can be selected;



- It provides the test constancy as regards to temperature, pressure and flow rate as well as lowering the energy consumption;
- Several reliable safeguard, e.g. liquid level measuring devices, emergency stop switch and cord switch ensure the tester to be out of action in time if the test fails or piping system bursts. Doors shall be locked during testing period;
- High quality pumps are used to provide pressure in sample stirrings. Automatic water filling design ensures full tank capacity during the whole time;
- Quick calibration. System enables pressure calibration and temperature calibration during testing, it means that system may continue running during calibration.

Specification:

- Pressure range 4.00bar~12.00bar (0.400Mpa~1.200Mpa)
- Pressure controlling accuracy ±0.05Mpa
- Test positions 6
- Alternation time between hot and cold water No more than 1min
- Cycle period 300s~1200s
- Number of cycles 1~100000, selectable
- Temperature range of cold water 20°C to RT(room temperature), settable
- Temperature range of hot water RT to 95°C, settable
- Temperature controlling accuracy of cold water ±2°C
- Temperature controlling accuracy of hot water ±1°C
- Temperature display error 1°C
- Power supply AC380V 50Hz, 25kW
- Overall dimensions 4500×3000×2000mm (L×W×H)

Standard configuration:

| No. | Item | Quantity |
|-----|--------------|----------|
| 1 | Main machine | 1 set |