

Plastic Pipe System Hot and Cold Water Cycle Tester

KASON TCT-400



MAIN FEATURES

- High temperature and high pressure only exist in the sample and short piping, that all the electric parts in circulation line work at normal pressure to attain a long service life.
- Testing control and monitoring of individually station takes over PLC and touch screen terminal.
- Individual circulation time, flow rate and pressure can be selected.
- Several reliable safeguard, 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.
- Pre-stress system was introduced to apply the initial tensile stress. This system is optional.

TECHNICAL SPECIFICATION

MODEL	KASON-TCT-400
Max. pressure	0.4~1.2MPa
Pressure control accuracy	±0.05MPa
Number of test stations	6, can be customized
Alternation time between hot water and cold water	≤1 min
Cycle period	300 ~ 1200s
Number of cycles	1 ~ 10,000 adjustable
Cold water temperature range	15°C ~ R.T adjustable
Hot water temperature range	R.T ~ 95°C(selectable)
Temperature control accuracy (cold water)	±2°C
Temperature control accuracy (hot water)	±1°C
Temperature display error	1°C
Max.total cross-sectional dim. Of all	4200mm ² or 6200mm ²
Water flow accuracy	0.01m/s

INSTRUMENT CONFIGURATION

Multistage centrifugal pump	Provides a pressure source
Circulating pump	Provides a uniform temperature field
Variable frequency drive	Stabilizes pressure
Pressure transmitter	Provides pressure acquisition signals
Insulated stainless steel cold water tank	Provides cold water for testing
Insulated stainless steel hot water tank	Provides hot water for testing
Stainless steel temperature sensor	Temperature signals from hot and cold water tanks and inlets
Refrigeration cycle unit	Controls cold water tank temperature
Heating device	Controls hot water tank temperature
Pressure indicator	Displays pressure within the specimen
Electrical control cabinet	Acquires and controls information
Specimen mounting box	Installes and protects specimens
Solenoid valve	Changes hot and cold water supply
Specimen clamping piping	Clamps specimens