



## Endurance test system for HV water heaters

### Product description

The offline station is used for endurance testing of HV water heaters. Heat transfer liquid is pumped from a stainless steel tank into the test object, which runs through various temperature cycles during the test. Characteristics such as current flow, surface temperature and flow rate are checked.

### Field of application

Quality control and endurance testing in the production/manufacturing area.



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### Technical data

#### Test bench/device

- Test cell with swiveling device allows testing in the installed state
- temperature control unit
- circulation pump
- Two stainless steel tanks with heat transfer liquid
- Frame made of aluminum profiles

#### Software

- TST-WIN test system
- - All settings and processes are menu-driven and freely programmable
- - Extensive options for controlling the process and the measurements
- - Visualization of the test results using a table of measured values and an additional graphic display
- The "remote maintenance" module enables remote access by ITronic service employees
- The "MES" module enables variant-dependent testing by a higher-level system
- The "ITDB" module, including viTronic, enables the evaluation and statistical processing of measurement data

#### Scope of testing

- Inlet and outlet temperature
- Surface temperature of the heater
- Supply voltage
- Current control and current load circuit testing
- Flow rate
- Inlet and outlet pressure test
- System pressure

#### Input-/visualisation units

- Keyboard
- Screen

#### Dimensions/Transport

- 1800x2200x1900 mm (WxHxD)  
Weight approx. 850 kg

#### Test time

- Individual, depending on test scope

#### Exemplary device type

- 114 7903