Institut für Prüftechnik

Competence creates Confidence.
Since 1969.

Temperature cycling tester › Model no. 1647

Data communication via CAN bus system	Network-compatible	Remote maintenance via Internet	

Standards	
EN 12293	DVGW W 543
DVGW W 534	
DVGW W 542	

Description

The temperature cycling tester allows you to determine the resistance of connections for pipe systems with rigid or flexible thermoplastic pipes to temperature cycling. This applies to pipe systems intended for use in pressurised water applications with hot and cold water.

The IPT temperature cycling tester consists of:

- **Supply unit with** **-cold water reservoir (optionally with heat exchanger or chiller)**
  -hot water reservoir with heaters
  -manual or automatic flow regulator (option)
  -electronic flow measurement
  -PC for operating the tester
- **Test chamber with** **-test sample frame (option)**
  -hitch

Simple and safe operation

- Optimum access to the test chamber via large sliding doors
- Operator protection thanks to electronically monitored door lock
- Convenient operation and clear visualisation via PC control

Reliable test results

- Microprocessor-controlled, self-learning pressure regulation with automatic failure detection
- Constant test temperatures, high pressure accuracy and precise flow regulation

Lasting efficiency

- High-quality unit components guarantee high reliability, a long service life and low maintenance costs

State-of-the-art technology

- Interface to IptDataLogging®

Version

		M1647-????
Pressure range	bar	5 – 10
Temperature range	°C	15 – 95
Hot temperature range, adjustable	°C	50 – 95
Cold temperature range, adjustable	°C	15 – 30
Regulating accuracy of temperature controller	°C	Approx. 0.2
Regulating accuracy in the reservoirs	°C	Approx. 1.0
Number of test branches		6 to 12, can be closed individually
Flow rate	l/s	Max. 8.0
Volumetric flow rate	m^3/h	29
Max. total cross-sectional dim. of all connected test samples	mm^2	16000
Max. test sample volume	l	150
Max. test sample diameter at a flow rate of 0.5 m/s		1 x Di 160 mm
Cycle duration	min	Adjustable between 3 and 99
Number of cycles		Max. 99999 per test
Required cooling power (subject to test cycle and samples)	kW	75
Manual pressure regulation		●
Automatic pressure regulation		○
Plate heat exchanger, cooling unit		○
Automatic failure detection		●
Mounting frame		○
Test bath		○
Operation via PC		●
Operation via IptDataLogging®		○
Compatible with IptDataLogging®		From version 4.x
CE conformity		●
Permissible ambient temperature	°C	+5 to +30
Permissible relative humidity		Max. 70%, non-condensing
Noise emission		<70 dB(A)
Width		Subject to installation
Depth		Subject to installation
Height	mm	2500
Voltage data		230/400 V, 50 Hz (other voltages on request)

● included ○ available/optional ☐ eligible – not available