

Temperature cycling tester › Model no. 1644

Data communication via CAN bus system	Network-compatible	Remote maintenance via Internet		Standards
				EN 12293
				DVGW W 534
				DVGW W 542
				DVGW W 543

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

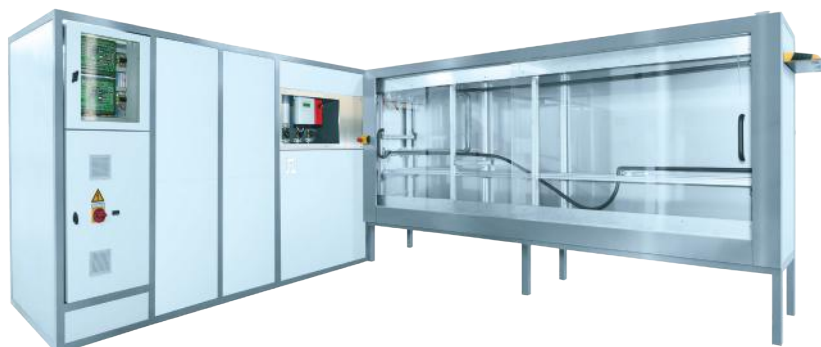
- Constant test temperatures, high pressure accuracy and precise flow regulation

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®



› Versions

	M1644-0001	M1644-0010	M1644-0011	M1644-0024
Pressure range	3 – 10	3 – 10	3 – 16	3 – 10
Temperature range	10 – 93			
Hot temperature range, adjustable	50 – 93			
Cold temperature range, adjustable	10 – 30			
Regulating accuracy of temperature controller	Approx. 0.2			
Regulating accuracy in the reservoirs	Approx. 1.0			
Flow rate	Approx. 1.1	Approx. 1.9	Approx. 1.3	Approx. 1.9
Volumetric flow rate	4	7	5	7
Max. total cross-sectional dim. of all connected test samples	1950	2600	2600	2600
Max. test sample volume	19	28	23	28
Max. test sample diameter at a flow rate of 0.5 m/s	1 x Di 50 mm	1 x Di 70 mm	1 x Di 60 mm	1 x Di 70 mm
Cycle duration	Adjustable between 3 and 99			
Number of cycles	Max. 99999 per test			
Required cooling power	10	16	10	16
Manual pressure regulation	●			
Automatic pressure regulation	○			
Plate heat exchanger, cooling unit	○			
Automatic failure detection	●			
Mounting frame	○			
Operation via PC	●			
Operation via IptDataLogging®	○			
Compatible with IptDataLogging®	From version 4.x			
CE conformity	●			
Permissible ambient temperature	+5 to +30			
Permissible relative humidity	Max. 70%, non-condensing			
Noise emission	<70 dB(A)			
Width	Subject to installation			
Depth	Subject to installation			
Height	Subject to installation			
Voltage data	230/400 V, 50 Hz (other voltages on request)			

● included ○ available/optional □ eligible - not available