›Thermal cycling test unit

According to EN 12293 | ISO 10508

››Description

The temperature cycling tester is designed to determine the resistance of thermoplastic pipe network and connections consisting of stiff or flexible parts to alternating thermal shock. This applies to pipe systems intended to be used for conveying hot and cold pressurized water.

››Specification

Pressure range	bar	4 - 16
Temperature cold range	°C	15 - 30
Temperature hot range	°C	50 - 95
Temperature accuracy	°C	at 95 °C ±2 °K, at 20 °C ±4 °K
Adjustment accuracy of controller	°C	± 0,5
Pressure accuracy	%	1 % of full scale
Flow rate accuracy	%	± 5%
Max. number of cycles each test		90
hot and cold water tank capacity	l	500
Pumps capacity at 10 bar	m³/h	12
Pumps capacity at 16 bar	m³/h	10
Heat exchanger for connection to external cooling water supply		●
External cooling unit		○
Controller		16" touch panel computer
Permissible operating ambient temperature	°C	+5 up to +25
Max. relative air humidity		70 %, noncondensing
Power supply voltage		230/400 V, 50 Hz
Max. number of test lines		2
Sliding doors		●

● inclusive   ○ available/optional
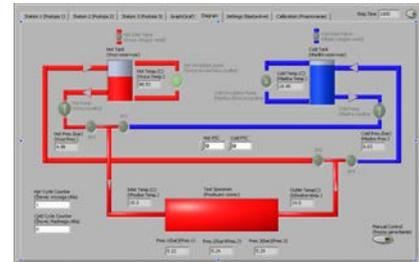
Thermal cycling test unit

* High-quality components guarantee high reliability
* PLC-controlled, self-learning PID pressure regulation
* Constant test temperatures
* high pressure accuracy
* Precise flow regulation
* Convenient visualisation via PC control
* Windows based software
* Large sliding doors of sample cabin guarantee easy access to the test chamber
* Sampl Rack for easy installation
* Data logging software included
* Manual tensioning system with digital load display to apply initial tensile stress