

Competence creates Confidence.



Model Nr. 1790

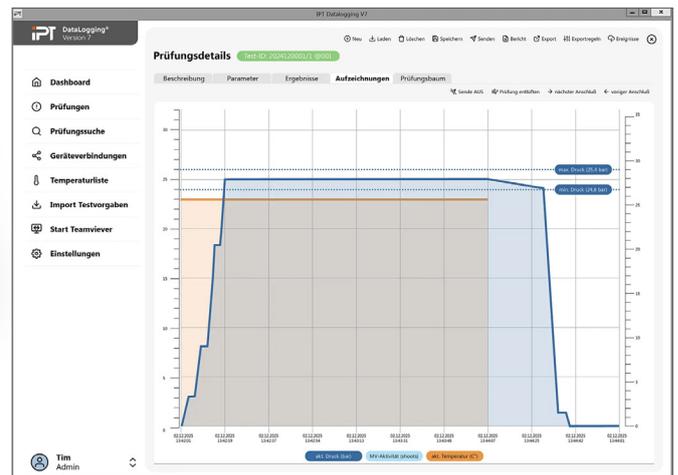
AIRLESS LIGHT LINE

ISO 1167



This testing device is used to apply and maintain the specified hydrostatic pressure for the time-dependent internal pressure test.

The time-dependent internal pressure test is a test method for determining the strength of thermoplastic pipes against constant internal water pressure at a constant temperature. The test specimens are subjected to a specified constant hydrostatic internal pressure for a specified period of time or until failure.



The stress on the test piece is defined by the pressure (internal pressure) and the temperature. The Airless Light Line with 5 stations is suitable for beginners and customers with low testing volumes.

The complete 1790 Airless Light Line set offers a simple, comprehensive solution with its five pressure stations and test container. Operation, result evaluation and clear visualisation are carried out via a laptop.

Professionally pressure tested

- A maximum of one airless module can be installed in the 1790 installation rack. A maximum of up to 5 test stations for time-dependent internal pressure tests can be installed.
- In addition to the module, the frame contains the pressurised water supply for generating the pre-pressure, the power supply and a status display.

Pressurised water supply

The pipe testing device is supplied with the necessary high-pressure water via the integrated pressurised water supply (3 l/min).

The pressurised water supply consists of:

- Water inlet with water filter and pre-pressure monitoring
- Pressure vessel (buffer tank): Prevents pressure peaks and temporarily increases the water supply capacity.
- Controller: For controlling the high-pressure pump and monitoring the system pressure.

Module and Controller

For each module, a controller (microprocessor control) individually controls and regulates the pressure of the individual stations. For pressure control, each station has two solenoid valves and a pressure transducer. The solenoid valve MV1 regulates the pressure build-up. The solenoid valve MV2 is used for pressure reduction and pressure relief at the end of the test.



Standard features

- Data input and evaluation via user interface (PC)
- 5 stations in one module
- Integrated, frequency-controlled high-pressure pump. (3 l/min)
- Stainless steel pressure tank
- Module made out of brass
- Maximum test pressure 100 bar
- SensLine connection: High flow rate and improved pressure control, more accurate pressure measurement by eliminating pipeline resistance
- Accuracy class of pressure transducer: 0.5% of the final value of the pressure transducer
- Selectable pressure transducer values: 10, 16, 25, 40, 60, 100 bar
- CE conformity

Options

- Data input, evaluation and archiving of test data via IPTData logging software (PC)
- Connection to cooling unit

Version

AIRLESS LIGHT LINE - PIPE TESTER

V1790-0001

Pressure range up to	bar	100
Pump capacity	l/min	3
Maximum number of modules in the rack		1
Width	mm	580
Depth	mm	595
Hight	mm	985
Voltage	230/400 V 50/60 Hz, special voltage on request	

V1790-0001

Version
AIRLESS LIGHT LINE - TEST BATHS

Water temperature	°C	Min. ambient temperature +10/max. 95
Spatial temperature uniformity	°C	±1,0
Temperature control with regulating accuracy	°C	±1,0
Water temperature adjustable in increments of	°C	±0,1
Overtemperature shutdown		✓
Water level monitoring		✓
Automatic refilling		✓
Integrated heating		✓
Circulation		✓
Circulation monitoring		✓
Cooling with fresh water		✓
Connection and interface for cooler/heat exchanger		✓
Inner tank material		1.4571 / AISI 316 Ti / UNS S 31635
Width (internal)	mm	1,000
Length (internal)	mm	1,000
Water depth	mm	1,000
Width (external)	mm	1,250
Length (external)	mm	1,344
Height (external)	mm	1,350/2,500
Weight (empty)	kg	approx. 550
Voltage data		230/400 V 50/60 Hz (special voltage on request)

Accessories for AIRLESS LIGHT LINE

Product	Description	Model no.
	Pipe Saw	1625
	End closures	1732 1810 1685
	Testing-software IPTDataLogging®	1780