

Model no. 1790

AIRLESS LIGHT LINE



According to

ISO 1167

ASTM D 1598

The internal pressure creep test is a test method for determining the strength of thermoplastic pipes. The test samples are exposed to a constant, internal hydrostatic pressure at a constant environmental temperature either for a predetermined time or until failure. The stress duration depends on the tension generated by the internal pressure and the temperature. The complete 1790 Compact-Line Light set consists of a tester and a test container. It is ideal for beginners and customers with a low test volume. The compact design offers a simple way of performing reliable tests in an efficient manner.

EASY AND SAFE OPERATION

- > Convenient operation and clear visualisation with IptUserInterface

RELIABLE TEST RESULTS

- > Microprocessor-controlled self-learning pressure regulation with automatic failure detection
- > Constant test temperatures due to highly efficient water circulation and accurate temperature control in the test container

LASTING EFFICIENCY

- > High-quality equipment components to ensure high reliability, a long service life and low maintenance costs

STATE-OF-THE-ART TECHNOLOGY

- > Interface to IptDataLogging®



VERSION AIRLESS LIGHT LINE - PIPE TESTER

Compact design		✓
Pressure range up to	bar	100
Integrated high-pressure pump		✓
Pump capacity	l/min	3
Stainless steel pressure accumulator		✓
Number of stations		5
Pressure regulation via microprocessor controller		✓
Controller with two-line LCD		✓
SensLine connection		✓
10 bar pressure transducer		○
16 bar pressure transducer		○
25 bar pressure transducer		○
40 bar pressure transducer		○
60 bar pressure transducer		○
100 bar pressure transducer		○
Accuracy class for pressure transducer	%	0.50 of full scale of pressure transducer
External control unit (PC) with IptUserInterface		✓
Operation via IptDataLogging®		○
Compatible with IptDataLogging®		from version 5.x
Data interface to internal programs		fast ethernet (10/100 Mbit)
CE conformity		✓
Dimensions (W x D x H)	mm	580 x 600 x 990
Weight	kg	ca. 140
Voltage data		230/400 V, 50/60 Hz * other voltages

✓ included

+ available/optional

○ eligible

– not available

* available upon request

VERSION AIRLESS LIGHT LINE - TEST TANK

Water temperature	°C	+20 to +95
Spatial temperature constancy	°C	± 1.0
Temporal temperature constancy	°C	± 1.0
Temperature control		✓
Regulating accuracy	°C	± 0.1
Overtemperature shutdown		✓
Monitoring of water level		✓
Automatic refill		✓
Integrated heater		✓
Circulation system		✓
Monitoring of circulation		✓
Fresh-water cooling		✓
Connection and interface for cooler / heat exchanger		✓
Inner tank material		1.4571 / AISI 316 Ti / UNS S 31635
CE conformity		✓
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 closed/opened (external)	mm	1,350/2,500
Weight (empty)	kg	ca. 550
Voltage data		230/400 V, 50/60 Hz * other voltages

✓ included



+ available/optional

O eligible

- not available

* available upon request

ACCESSORIES AIRLESS LIGHT LINE

Product	Description	Model no.
	End closures	1732
		1784
		1685
	Test data management software IptDataLogging®	1780
