Competence creates Confidence.

Model no. 1662/1674

TEST OVENS FOR PIPE TESTING

ISO 1167
ASTM D 1598
ASTM D 1599

The internal pressure creep test is a test procedure for determining the strength of thermoplastic pipes to constant hydrostatic internal pressure at a constant ambient temperature. The samples are tested either for a specified period or until they fail. The test duration is subject to the tension generated by the internal pressure and the temperature.

The IPT test ovens are specially designed for testing thermoplastic pipes and fittings. These are characterised by their dependability with respect to spatial and temporal temperature constancy, high reliability and durability. At the same time, they guarantee efficient long-term operation thanks to a high degree of energy efficiency with low servicing and maintenance costs. Various distribution and connection configurations enable the device to be adapted to specific customer requirements. The sliding sample racks available as an option provide optimum operating convenience and ergonomic handling.

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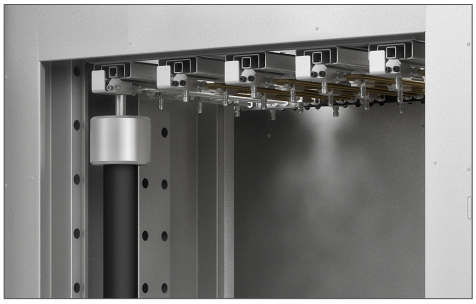
Model no. 1662

The doors to the test chamber can be locked by the operator to prevent unauthorised access to the test room and to ensure that the door cannot be opened as long as the samples are under pressure.

Model no. 1674

A sophisticated recirculation system with air baffles ensures that the hot air is optimally distributed throughout the test chamber. If a test sample breaks, the hot water is safely collected and drained through an outlet.



Flexible distributor systems with quick-release couplings and removable suspension rails make equipping the oven easier.

Standard features

- Test temperature up to 120 °C
- Doors locked with lockable door handle
- Optional door hinge: left or right
- Constant test temperatures thanks to highly-efficient water circulation and precise temperature control in the inner chamber
- Test oven made out of high-quality stainless steel
- High-quality oven insulation and insulated doors for minimum energy loss
- Overtemperature shutdown
- Interface to IPTDataLogging®
- CE conformity

Options

- Test temperature up to 140 °C
- Test temperature up to 160 °C
- Sliding rack system enables the individual connections to be fitted more easily outside the oven
- Base frame with two drawers (with the models V1662-0023, V1662-0024, V1662-0025)
- Sliding sample racks (with the models V1662-0023, V1662-0024, V1662-0025)
- Doors locked with safety switches and retrieval of the test pressure before doors are released
- Operation via IPTDataLogging®
- Suspension systems for end closures

Accessories for TEST OVENS FOR PIPE TESTING

Product	Description	Model no.
	Pipe tester	1720 1774 1785 1814
	End closures	1732 1733 1810
	Testing data management software IPTDataLogging®	1780

Design of TEST OVENS FOR PIPE TESTING		V1662-0023	V1662-0024	V1662-0025	V1674-0005	V1674-0006
Temperature range	°C	40 – 120	40 – 140	40 – 160	40 – 120	40 – 140
Spatial and temporal temperature constancy up to 120°C	°C	± 1.0	± 1.0	± 1.0	± 1.0	± 1.0
Spatial and temporal temperature constancy above 120°C	°C	–	± 1.5	± 1.5	–	± 1.5
Regulating accuracy	°C	± 0.2				
Inner tank material		1.4301				
Compatible with IPTDataLogging®		From version 6.x				
Permissible ambient temperature	°C	+5 to +40				
Permissible relative humidity	%	Max. 70 non-condensing				
Width (internal)	mm	800				
Depth (internal)	mm	600			650	
Height (internal)	mm	750			1,280	
Width (external)	mm	1,450			1,450	
Depth (external) with/without sliding sample rack	mm	1,430/870			1,150	
Height (external)	mm	1,950			1,780	
Heating power	kW	1.5			3.2	
Voltage data		230/400 V 50/60 Hz / special voltages on request				

Design of TEST OVENS FOR PIPE TESTING		V1662-0005	V1662-0006	V1662-0007	V1662-0010	V1662-0018
Terminal block material		Brass	Brass	Brass	Brass	Brass
Number of racks		5	5	5	5	5
Connections per rack		5 x 1	2 x 3	1 x 5	2 x 5	5 x 1
Individual pressures		25	10	5	10	25
Min. spacing division of the connections		120	113	113	81	120
Pressure range up to	bar	100				

Further connection configurations such as fixed sample racks, a burst pressure connection, components for bottle testing in accordance with ASTM D 2561 and customer-specific connections are available on request