Model no. 1751-1757

# TEST TANKS FOR PIPE TESTING

According to

ISO 1167

ASTM D 1598

ASTM D 1599

The internal pressure creep test is a test procedure for determining the strength of thermoplastic pipes. The samples are subjected to a constant hydrostatic internal pressure at a constant ambient temperature 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 tanks are specially designed for testing thermoplastic pipes and fittings. The high reliability, durability of the materials used and the constant temperatures in the test tank with respect to both volume and time provide particularly reliable test conditions. The efficient use of energy with low servicing and maintenance costs guarantee efficient long-term operation. There are a wide range of tank dimensions and connection options, enabling the tanks to be flexibly adapted to various operating conditions.

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## EASY AND SAFE OPERATION

> Motor-operated lid

## RELIABLE TEST RESULTS

> Constant test temperatures thanks to highly-efficient water circulation and precise temperature control in the inner tank

## LASTING EFFICIENCY

> High-quality stainless steel test tank (1.4571)

> Double insulation of the basic tank and insulated lid for minimum energy loss

> Option to connect a chiller and plate heat exchanger to provide efficient and environmentally-friendly water cooling for low test temperatures

## STATE-OF-THE-ART TECHNOLOGY

> Integrated monitoring of tank level, temperature and circulation

> Interface to IptDataLogging®


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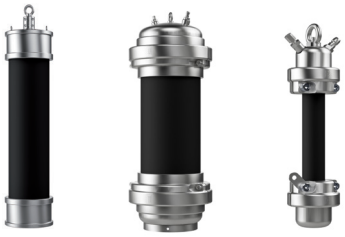
| **VERSION (1)**<br>**TEST TANKS FOR PIPE TESTING** | | V1751-0351 | V1751-0352 | V1751-0311 | V1751-0312 | V1751-0313 | V1752-0361 | V1752-0362 | V1752-0312 |
|---|---|---|---|---|---|---|---|---|---|
| Water depth | mm | 800 | 800 | 800 | 800 | 800 | 1,000 | 1,000 | 1,000 |
| Width (internal) | mm | 500 | 500 | 1,000 | 1,000 | 1,000 | 700 | 700 | 1,000 |
| Length (internal) | mm | 1,100 | 1,600 | 1,000 | 1,500 | 2,000 | 1,100 | 1,600 | 1,500 |
| Width (external) | mm | 980 | 980 | 1,380 | 1,380 | 1,380 | 1,180 | 1,180 | 1,380 |
| Length (external) | mm | 1,480 | 1,980 | 1,630 | 2,220 | 2,720 | 1,480 | 1,980 | 2,220 |
| Height closed (external) | mm | 1,220 | 1,220 | 1,220 | 1,220 | 1,200 | 1,420 | 1,420 | 1,420 |
| Height open (external) | mm | 1,850 | 1,850 | 2,500 | 2,100 | 2,340 | 2,280 | 2,280 | 2,300 |
| Number of manifold slots | | 4+1+1 | 6+1+1 | 3+3+4 | 5+5+4 | 7+7+4 | 4+2+2 | 6+2+2 | 5+5+4 |
| Number of suspension rails (included) | | 2 | 2 | 2 | 3 | 3 | 2 | 3 | 3 |
| Heating power | kW | 6 | 6 | 9 | 18 | 18 | 6 | 6 | 18 |
| Inner tank material | | 1.4571 / AISI 316 Ti/ UNS S 31635 | | | | | | | |
| All parts coming into contact with water stainless | | ✓ | | | | | | | |
| All parts coming into contact with water free of Cu ions | | + | | | | | | | |
| Water temperature | °C | min. ambient temperature +10 / max. 95 | | | | | | | |
| Water temperature (with fresh-water cooling) | °C | min. 20 or fresh-water temperature / max. 95 | | | | | | | |
| Water temperature (with chiller) | °C | min. 20 / max. 95 | | | | | | | |
| Water temperature adjustable in increments of | °C | 0.1 | | | | | | | |
| Spatial and temporal temperature constancy | °C | ± 0.3 | | | | | | | |
| Temperature control with regulating accuracy | °C | ± 0.025 | | | | | | | |
| Circulation system with monitoring | | ✓ | | | | | | | |
| Connection and interface for chiller and heat exchanger | | ✓ | | | | | | | |
| Overtemperature shutdown | | ✓ | | | | | | | |
| Monitoring of water level | | ✓ | | | | | | | |
| Automatic top-up | | ✓ | | | | | | | |
| CE conformity | | ✓ | | | | | | | |
| Voltage data | | 230/400 V, 50/60 Hz<br>* other voltages | | | | | | | |

✓ included + available/optional O eligible – not available * available upon request

| **VERSION (2)**<br>**TEST TANKS FOR PIPE TESTING** | | V1753-0312 | V1753-0323 | V1754-0313 | V1755-0323 | V1755-0337 | V1757-0337 |
|---|---|---|---|---|---|---|---|
| Water depth | mm | 1,300 | 1,300 | 1,600 | 1,800 | 1,800 | 2,200 |
| Width (internal) | mm | 1,000 | 1,500 | 1,000 | 1,500 | 2,000 | 2,000 |
| Length (internal) | mm | 1,500 | 2,000 | 2,000 | 2,000 | 4,000 | 4,000 |
| Width (external) | mm | 1,380 | 1,880 | 1,480 | 1,980 | 2,480 | 2,560 |
| Length (external) | mm | 2,220 | 2,670 | 2,720 | 2,720 | 5,030 | 5,180 |
| Height closed (external) | mm | 1,720 | 1,720 | 2,020 | 2,230 | 2,230 | 2,620 |
| Height open (external) | mm | 2,600 | 2,840 | 3,145 | 3,340 | 3,340 | 3,700 |
| Number of manifold slots | | 5+5+4 | 7+7+5 | 7+7+4 | 7+7+5 | 15+15 | 15+15 |
| Number of suspension rails (included) | | 3 | 3 | 3 | 3 | 5 | 5 |
| Heating power | kW | 18 | 18 | 18 | 18 | 54 | 54 |
| Inner tank material | | 1.4571 / AISI 316 Ti/ UNS S 31635 | | | | | |
| All parts coming into contact with water stainless | | ✓ | | | | | |
| All parts coming into contact with water free of Cu ions | | + | | | | | |
| Water temperature | °C | min. ambient temperature +10 / max. 95 | | | | | |
| Water temperature (with fresh-water cooling) | °C | min. 20 or fresh-water temperature / max. 95 | | | | | |
| Water temperature (with chiller) | °C | min. 20 / max. 95 | | | | | |
| Water temperature adjustable in increments of | °C | 0.1 | | | | | |
| Spatial and temporal temperature constancy | °C | ± 0.3 | | | | | |
| Temperature control with regulating accuracy | °C | ± 0.025 | | | | | |
| Circulation system with monitoring | | ✓ | | | | | |
| Connection and interface for chiller and heat exchanger | | ✓ | | | | | |
| Overtemperature shutdown | | ✓ | | | | | |
| Monitoring of water level | | ✓ | | | | | |
| Automatic top-up | | ✓ | | | | | |
| CE conformity | | ✓ | | | | | |
| Voltage data | | 230/400 V, 50/60 Hz<br>* other voltages | | | | | |

✓ included + available/optional O eligible – not available * available upon request

## ACCESSORIES TEST TANKS FOR PIPE TESTING

| Product | Description | Model no. |
|---|---|---|
|  | Pipe testers | 1720<br>1774<br>1785 |
|  | Chiller/heat exchanger | 1765 |
|  | Endclosures | 1732<br>1784<br>1685 |
|  | Suspension hook for sample | 1079 |
|  | Connecting hoses<br>Manifold | 1074/1577<br>1540 |
|  | Test data management software IptDataLogging® | 1780 |