Product Information
Temperature chambers for zwickiLine

Description of system
This temperature chamber was designed specifically for use with a Type TN or TH zwickiLine testing system.

To enable installation of the temperature chamber the electronics unit is relocated to the extreme right-hand side. The Large Base option (Item No. 059036) is required for installation of the temperature chamber. The electronics can also be located separately. In this case the Leveling Feet option (Item No. 083221) is also required.

The Eurotherm controller has an RS-232 interface, manually controllable set-value function and a digital display showing actual and set values (optional control via PC with ZwickRoell testing software).

The door opens to the left. The temperature chamber is equipped with a viewing window and test-area illumination.

The temperature chamber includes a mains lead and attachment for zwickiLine (also includes an extended crosshead for zwickiLine). The temperature chamber can also be retrofitted.

- Economically priced temperature chamber with industry-proven Eurotherm controller.
- RS 232 interface for PC operation as standard
- Attachment to zwickiLine included.
- Ergonomic, CE-compliant design for simple, safe, and reliable operation.
Product Information
Temperature chambers for zwickiLine

Technical data

<table>
<thead>
<tr>
<th>Item No.</th>
<th>1014436</th>
</tr>
</thead>
<tbody>
<tr>
<td>Design</td>
<td>door opens to left, controller installed on LH side</td>
</tr>
<tr>
<td>Cooling system</td>
<td>LN₂ (liquid nitrogen)</td>
</tr>
<tr>
<td>Chamber control controller type</td>
<td>Eurotherm</td>
</tr>
<tr>
<td>Test temperature</td>
<td>-50 to +180 °C</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>+10 to +35 °C</td>
</tr>
<tr>
<td>Average heating rate (no load) (1)</td>
<td>5.5 °C/min</td>
</tr>
<tr>
<td>Average cooling rate (no load) (1)</td>
<td>2.5 °C/min</td>
</tr>
</tbody>
</table>

### Dimensions

**External dimensions:**
- height: 500 mm
- width: 700 mm
- depth: 425 mm

**Internal dimensions:**
- height: 350 mm
- width: 250 mm
- depth: 250 mm

**Weight:** 45 kg

**Noise level:** 55 dBA

**Input supply voltage:** 230 V

**Power consumption:** 1.5 kVA

**Interface:** RS 232 (occupies one COM port on the PC)

**Included in delivery:**
- power supply cable
- lower mounting stud, Ø 20 mm
- attachment to zwickiLine

\(1\) The heating and cooling times stated, together with spatial and temporal fluctuations in temperature, apply to a closed chamber without accessories.

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**NOTE**

When zwickiLine Z2.5 is used with a temperature chamber the maximum test force is limited to 1 kN or with a Z5.0 to 2.5 kN. Pneumatic specimen grips cannot be mounted in the temperature chamber of a zwickiLine. On request the temperature chamber is also available with additional test area and/or larger temperature range.

**Accessories required**

<table>
<thead>
<tr>
<th>Description</th>
<th>Item number</th>
</tr>
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<tbody>
<tr>
<td>&quot;Large Base&quot; option</td>
<td>059036</td>
</tr>
<tr>
<td>Optional set of leveling feet for separate positioning of electronics</td>
<td>083221</td>
</tr>
</tbody>
</table>

All data at ambient temperature. We reserve the right to make technical changes in the course of ongoing development.