

# T/480/70/11-25

## Temperatur test chambers up to 25 K/min

Our stress screening test chambers, TempEvent model, feature high rates of temperature change, from 10 to 25 K/min. They are ideal for ageing tests as well as for electrically operated test specimens with high heat loads (e.g. 8000 W at 20 °C) and heavy test specimens (of up to 500 kg). For these challenges, in particular, where standard solutions quickly reach their limits, our temperature and climatic test chambers are designed for rapid thermal cycling tests.

**Our highlights:**

¬ For AI and electronics with high waste heat

¬ Requirements from the defence sector

¬ Protect your valuable test material.

¬ Efficiency meets performance

¬ Networked. Flexible. Future-proof.

¬ Environmentally friendly cooling with $CO_2$

# Technical Data.

| T/480/70/11-25 | |
|---|---|
| **TEMPERATURE TEST PERFORMANCE DATA** | |
| **Temperature range [°C]** | -70 ... 180 |
| **CONSUMPTION AND CONNECTION DATA** | |
| **Cooling (air-cooled/water-cooled)** | - / ✓ |
| **Electrical Connection** | CEE-Connector, 63 A |
| **Voltage Rating** | 3/N/PE AC 400 V ±10 % 50 Hz |
| **TEST SPACE** | |
| **Testspace volume [l]** | 494 |
| **Test Space Dimensions (H x W x D) [mm]** | 950 x 800 x 650 |
| **Material test space housing** | Stainless steel, 1.4301, surface III D glossy |
| **EXTERNAL HOUSING** | |
| **Material external housing** | Galvanised sheet steel |
| **Finish of the external housing** | Powder coating Colour: RAL 7035, light grey; design elements in RAL 7016 anthracite gray; solvent-free |
| **External Dimensions (HxWxD) [mm]** | 2090 x 115 x 2605 |
| **Access port right** | 1 piece, approx. ø 125 mm stainless steel incl. closed silicone plug + slotted foam silicone plug |
| **DIMENSIONS & WEIGHT** | |
| **Floor Loading [kg]** | 80 |
| **Total load [kg]** | 160 |
| **OPERATING AND AMBIENT CONDITIONS** | |
| **Sound Pressure Level [dB(A)]** | 73 |

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# Selection of relevant options

| Label | Description |
|---|---|
| **Additional Access Ports** | Access port made of stainless steel, vailable in three standard sizes Ø 50, 80, 125 mm, including 1 silicone plug closed and 1 foam + silicone plug, slotted. |
| **Access port in the ceiling** | Access port in the ceiling mate of stainless steel, vailable in three standard sizes Ø 50, 80, 125 mm. |
| **Lead-through pad, incl. replacement insert** | The installation is located behind the lifting gear. The standard feedthrough, Ø 80 mm, stays installed. |
| **Switchable privacy screen for test specimens** | You want to protect your test specimen comfortably from prying eyes? The window pane of the test chamber can be made opaque by means of a digital switching channel via the light switch. *(Only in connection with the "window in the door" option)* |
| **Door seals can be replaced for tests with hydraulic oil** | Hydraulic oil places special demands on the seals. They have to be replaced more often. The seals are mounted on the door to make them easier to replace. |
| **Door contact switch for "Door open" notification on the control unit / S! MPATI®** | The components of the door contact switch are mounted on the test chamber and on the test chamber door. Monitoring of the test space door is activated when the test starts. When the test space door is opened, the message "Door open" appears on the control panel. |
| **GN2 / Compressed air connection** | Connection with coupling plug DN 7.2 for operation with the customer's compressed air dryer or for the injection of an inert gas into the hot and cold chamber. The function can be enabled/ disabled on the control unit or via the S!MPATI® software. |
| **Additional humidity control with capacitive humidity measuring system** | In addition to the standard-issue psychrometric measuring device, a capacitive humidity measuring system is also installed. Humidity control is enabled either via this humidity sensor or the psychrometric measuring device. |
| **Temperature measurement on the test specimen** | Many norms, such as the new version of IEC 60068-2-14 Nb, require close observation and recording of the temperature of the test specimen during the test phases. Our test chamber can be equipped with additional temperature sensors, the values from which are displayed and recorded on the display (via USB or with S!MPATI®). One of the sensors can also be used as a control sensor if required. |
| **Additional 4 Digital I/O** | 4 digital outputs for controlling the additional functions via the potential-free contacts, load max. 24 V-DC, 0.5 A, 4 digital inputs can be queried via interface, load max. 24 V-DC, approx. 30 mA |
| **Analogue measured value card: 4 thermocouples, NiCrNi inputs and 5 outputs** | 5 - 6 outputs 0 to 10 V and 4 inputs for Ni-Cr-Ni thermocouple type K are available for the processing and output of analogue measurement signals. |
| **Air- or water-cooled** | Many test chambers are available as air- or water-cooled and can be supplied according to your infrastructure. Water cooling is available for all systems and, for more powerful test chambers, it often makes more sense to dissipate the waste heat via a cooling water connection. Air-cooled versions are to be discussed on an individual basis on request. |
| **Special voltage on request** | Special voltage on request |

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