

T/270/70/10-25

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/270/70/10-25	
TEMPERATURE TEST PERFORMANCE DATA	
Temperature range [°C]	-70 ... 180
CONSUMPTION AND CONNECTION DATA	
Cooling (air-cooled/water-cooled)	✓ / -
Electrical Connection	CEE-Connector, 32 A
Voltage Rating	3/N/PE AC 400 V ±10 % 50 Hz
TEST SPACE	
Testspace volume [l]	268
Test Space Dimensions (H x W x D) [mm]	750 x 580 x 615
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]	1950 x 895 x 2322
Access port right	1 piece, approx. ø 125 mm stainless steel incl. closed silicone plug + slotted foam silicone plug
DIMENSIONS & WEIGHT	
Floor Loading [kg]	60
Total load [kg]	140
OPERATING AND AMBIENT CONDITIONS	
Sound Pressure Level [dB(A)]	68

Weiss Technik GmbH
info@weiss-technik.com
weiss-technik.com

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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