



# Walk-in Test Chambers for Stability Tests





# Test whatever you like!



## Heat, cold, moisture? No problem.

Products are exposed to varied environmental conditions. When performing tests, you have to adhere to numerous testing guidelines and carry out long-term tests. Our test chambers are designed specifically for these tasks. They work extremely accurately and reliably and are individually designed to suit your requirements. The insulation cells

can be optimally adjusted to the existing building structure because there is no restriction to standard dimensions. The serial height is 2,700 mm, other dimensions are also possible. Weiss Technik can provide test chambers and test spaces with volumes from 8 to approx. 150 m<sup>3</sup>. If required, even larger spaces of up to 300 m<sup>3</sup> are possible.

# More equipment right from the start.

## Basic equipment setting standards.

### Exterior



- Excellent mechanical strength and optimum thermal insulation thanks to PU insulation cells (CFC-free) with easy-to-clean metal plate coating on both sides. Internal and external walls according to customer requirements, e.g., in RAL 9010 or stainless steel
- Insulated floor construction for the highest load with non-slip stainless steel corrugated metal sheet
- Lockable test space door with insulated viewing window and emergency opening device; the door frame heating system prevents the formation of condensate when operating with high humidity

### Interior



- Possible integration of pressure compensation valve into cell walls (e.g., in the case of corresponding temperature requirements)
- Temperature controlling system: ceiling evaporator with integrated electric heater and air-cooled refrigeration unit
- High-performance axial fans guarantee the best possible air circulation as well as even air flow and temperature control
- Humidification system with energy saving ultrasonic humidifier and separate dehumidification evaporator
- Maintenance-free electronic temperature/humidity sensors
- Safety temperature limiter for electric heating and test chamber
- Test specimen protection  $t_{\min}/t_{\max}$  and protection from too high humidity

### Regulation & Control



- Fully integrated user administration in control console
- The control cabinet houses all the electronics, i.e., fuses, protection devices, switches, control and regulating devices. The cabling and the fitting of the electronics are carried out in strict adherence to the EU guidelines
- Multilingual touch panel (German, English, French, Spanish, Polish, Czech, Russian, Chinese or Korean)
- Software package **SIMPATI**® for recording and processing results, user administration possible

# Tailor-made testing.

## Optional equipment for individual solutions.

- Execution as temperature chamber (without controlled humidity)
- Constructed on a base frame so that the chambers can be transported and installed in different operating sites
- Welded chambers for a dewpoint >58 °C
- Chiller unit, water-cooled
- Connection to the cooling water circuit provided by the customer (e.g., +6 °C)
- Desalination device with replaceable cartridges for the connection to the local water supply
- Additional ports
- Additional temperature and/or humidity sensors
- Special voltages
- Maintenance agreements with agreed reaction times



You can find more details of features in our technical specifications. **Get in touch with us.**

# Impressive technology. Reliable results.

## The performance data at a glance.

### Test chambers from 8 to 10 m<sup>3</sup>

Climate and temperature work range <sup>1</sup> :	
Temperature range	+20 to +45 °C
Humidity range	20 to 80% RH
Dewpoint temperature range	+9 to +41 °C

### Test chamber from 10 m<sup>3</sup>

Climate and temperature work range <sup>1</sup> :	
Temperature range	-20 to +60 °C
Humidity range	15 to 95% RH
Dewpoint temperature range <sup>2</sup>	+9 to +58 °C

<sup>1</sup> The performance data is based on an ambient temperature of +10 to +32 °C.  
<sup>2</sup> Dewpoint >58 °C also possible, however with welded chambers.



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# Passionately innovative.

**We work in partnership to support companies in research, development, production and quality assurance. With 22 companies in 15 countries at 40 locations.**

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**Test it. Heat it. Cool it.**



## Environmental Simulation

The first choice for engineers and researchers for innovative, safe environmental simulation facilities. In fast motion, our test systems can simulate all the influences in the world as well as for instance in space. In temperature, climate, corrosion, dust or combined stress tests. With a very high degree of reproducibility and precision.



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