Compact Dimensions – High Performances

Temperature and Climate Test Chambers WTL and WKL – perfect for application in the laboratory
Reproducible Environmental Conditions for Reliable Test Results …

Small, but highly effective …

Reproducible temperature and climate tests can be performed directly at your workplace. This is possible with the WTL and WKL chambers of Weiss. This series was specifically developed for use in laboratories. Compact dimensions – considerable intrinsic values.

For versatile applications around-the-clock …

- control and program control SIMPAC® with program storage for a max. of 100 programs
- 3.5˝ TFT-colour touch panel
- Ethernet interface for communication with an on-site computer system
- USB interface for documentation of measuring data via USB stick
- large observation window and illuminated test space
- high-quality double seals
- 50 mm access port
- upper and lower temperature, specimen protection according to EN 60519-2 (1993) adjustable, with separate sensor

Well equipped …

The temperature and climate chambers comply with test standards such as e.g. DIN, ISO, MIL, IEC, DEF or ASTM.

Humidity diagram: 1 standard working range
2 extended climate working range (option compressed air dryer)
Our extensive standard configuration...

- 32 bit S!MPAC® control with 3.5” TFT-colour touch panel
- observation window
- test space lighting
- independent, adjustable temperature limiter \( t_{\text{min}}/t_{\text{max}} \)
- voltage-free contact for switching test item
- Ethernet interface
- USB interface
- refrigeration system, air-cooled
- psychrometric humidity measurement (WKL)

Options...

- software package S!MPATI®
- temperature measurement on specimen

Technical Data...

<table>
<thead>
<tr>
<th>Type</th>
<th>WTL / Temperature</th>
<th>WKL 34/+10</th>
<th>WTL WKL 34/40</th>
<th>WKL 34/70</th>
<th>WKL 64/+10</th>
<th>WTL WKL 64/40</th>
<th>WKL 100/+10</th>
<th>WTL 100/40</th>
<th>WTL 100/70</th>
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<td>Test space dimensions height mm</td>
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<td>750(3)</td>
<td>980(3)</td>
<td>800(5)</td>
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<td>750(3)</td>
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</tbody>
</table>

Performances for temperature tests

- Maximum temperature °C +180
- Minimum temperature °C +10
- Temperature changing rate Cooling K/min 3.0
- Heating K/min 2.0
- Heat compensation max. W 800
- Temp. constancy in time(1) K ±0.3 to ±1.0
- Temp. homogeneity in space(2) K ±0.5 to ±2.0

Perform. for climate tests – only WKL

- Temperature range °C
- Dewpoint temperature range °C
- Humidity range % r.h.
- Humidity constancy % r.h.
- Temp. constancy in time(1) K ±0.3 to ±0.5
- Temp. homogeneity in space(2) K ±0.5 to ±1.5

Power supply 1/N/PE AC 230 V ±10 %/50 Hz

Max. connected load kW 1.8
Max. current consumption approx. A 8
Sound pressure level(6) dB(A) 56
Condenser air-cooled

Weight kg 110

The performance data refer to an ambient temperature of +25 °C

(1) according to IEC 60068-3-5  (2) with the optional base (extension) the depth is reduced to 750 mm  (3) with the optional base (extension) the depth is reduced to 800 mm  (4) with the optional base (extension) the depth is reduced to 930 mm  (5) depth with standard base

(6) measured in 1.60 m height under free field conditions at 1 m distance from front of the system

Subject to technical modifications. Equipment partly shown with options.
A complete product range for temperature and climate testing is available, with test space volumes of approx. 34 litres to 2160 litres and working ranges of \(-75 \ldots 180^\circ\text{C}\) and \(10 \ldots 98\%\) r.h.

In addition, we also offer an extensive selection of proven test systems for simulating exposure to weather, temperature shock, corrosion and long-term testing for research, development, quality assurance and production.

As one of the leading manufacturers of simulation systems worldwide, Weiss Umwelttechnik offers the entire range of high-quality test equipment: from economical series devices to walk-in systems process-integrated systems built to customer specification.

A high-performance after-sales service ensures the optimal support for our customers and high operational safety of the systems. Decades of experience in the various fields of application and an intensive exchange of information with our customers throughout the world all serve to guarantee good cooperation.

If you value know-how, service and all-round safety, ask Weiss Umwelttechnik.

Further information, technical field offices in Germany, subsidiaries and agencies worldwide can be found at

www.weiss.info