

# Compact Dimensions – High Performances

Temperature and Climate Test Chambers WTL and WKL - perfect for application in the laboratory



**NEURTEK** 

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# **Our Contribution...**

## **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.

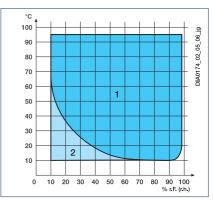
Compact dimensions - considerable intrinsic values.



## For versatile applications Well equipped ... around-the-clock ....

- control and program control S!MPAC\* with program storage for a max. of 100 programs
- 3.5<sup>"</sup> 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

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)



# ... in the laboratory

## 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<sub>min</sub>/t<sub>max</sub>
- voltage-free contact for switching test item
- Ethernet interface
- USB interface
- refrigeration system, air-cooled
- psychrometric humidity measurement (WKL)

- 1 access port 50 mm
- 1 shelf
- WKD- calibration of 2 temperature values (WTL) and 2 humidity values (WKL) with certificate
- automatic water supply (WKL)

## Options ...

- software package S!MPATI\*
- temperature measurement on specimen

- capacitive humidity sensor
- interface IEEE 488
- interface RS 485
- interface RS 232
- compressed air dryer
   additional access part
- additional access ports
- additional shelves
  mobile base (stand
- mobile base (standard on WKL 34/70 and WKL 64/70)
- demineralisation unit (WKL)
- special voltages

## Technical Data...

Type WTL / Temperature Type WKL / Climate		WKL 34/+10	WTL WKL 34/40	WTL WKL 34/70	WKL 64/+10	WTL WKL 64/40	WTL WKL 64/70	WKL 100/+10	WTL WKL 100/40	WTL WKL 100/70
Test space volume	approx. I	34	34	34	64	64	64	100	100	100
	height mm width mm depth mm	310 350 300	310 350 300	310 350 300	400 470 345	400 470 345	400 470 345	500 490 400	500 490 400	500 490 400
WTL	height mm width mm depth mm depth mm	980 640 - 930 <sup>2)</sup>	980 640 750 930 <sup>2)</sup>	1730 640 750 750 <sup>5)</sup>	1070 760 - 980 <sup>3)</sup>	1070 760 800 980 <sup>3)</sup>	1780 760 800 800 <sup>5)</sup>	1190 780 - 1105 <sup>4)</sup>	1190 780 930 1105 <sup>4)</sup>	1190 780 930 1105 <sup>4)</sup>
Incl. base (extension)	height mm depth mm	1730 750	1730 750		1780 800	1780 800	-	1880 930	1880 930	1880 930
Performances for temperature testsMaximum temperature°CMinimum temperature°C		+180 +10	+180 -40	+180 -70	+180 +10	+180 -40	+180 -70	+180 +10	+180 -40	+180 -70
Temperature changing Cooling Heating	rate K/min K/min	3.0 2.0	6.0 4.0	3.0 4.0	3.0 2.0	5.0 3.5	2.5 3.5	3.0 2.0	5.0 3.5	3.5 3.5
Heat compensation ma	ax. W	-	800	550	-	800	550	-	1100	700
Temp. constancy in time <sup>1)</sup> K Temp. homogeneity in space <sup>7)</sup> K		±0.3 to ±1.0 ±0.5 to ±2.0								
Perform. for climate tests - only WKLTemperature range°CDewpoint temperature range°CHumidity range% r. h.Humidity constancy% r. h.Temp. constancy in time1)KTemp. homogeneity in space7)K		+10 to +95 +5.5 to +94 10 to 98 $\pm 1$ to $\pm 3$ $\pm 0.3$ to $\pm 0.5$ $\pm 0.5$ to $\pm 1.5$								
Power supply		1/N/PE AC 230 V ±10 %/50 Hz								
Max. connected load Max. current comsump Sound pressure level <sup>6)</sup>		1.8 8 56	1.8 8 56	2.5 11 59	1.8 8 56	1.8 8 56	2.5 12 59	2.7 12 56	3.0 13 56	3.5 15 59
Condenser		air-cooled								
Weight	kg	110	110	130	120	120	140	170	190	210

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

<sup>1)</sup> according to IEC 60068-3-5 <sup>2)</sup> with the optional base (extension) the depth is reduced to 750 mm <sup>3)</sup> with the optional base (extension) the depth is reduced to 930 mm <sup>5)</sup> depth with standard base

<sup>6)</sup> measured in 1.60 m height under free field conditions at 1 m distance from front of the system

 $^{7)}$  referring to the adjusted setpoint value in the temperature range of a minimum temperature to 150  $^{\circ}$ C

Subject to technical modifications. Equipment partly shown with options.

# Test Systems for Professionals. Test the best...

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...+180 °C and 10...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 co-operation.

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

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