

Compact Dimensions – High Performances

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





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.

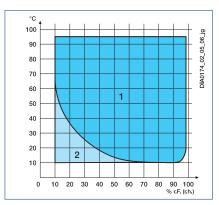
Compact dimensions – considerable intrinsic values.



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" TFT-colour touch panel
- Ethernet interface for communication with an on site computer
- 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 $t_{\text{min}}/t_{\text{max}}$
- 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
- 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 ports
- additional shelves
- 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 ap	pprox. I	34	34	34	64	64	64	100	100	100
Test space dimensions height m width m depth m	nm	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
External dimensions height m width m depth m depth m depth m	nm nm	980 640 - 930 ²⁾	980 640 750 930 ²⁾	1730 640 750 750 ⁵⁾	1070 760 - 980 ³⁾	1070 760 800 980 ³⁾	1780 760 800 800 ⁵⁾	1190 780 - 1105 ⁴⁾	1190 780 930 1105 ⁴⁾	1190 780 930 1105 ⁴⁾
Incl. base (extension) height m depth m		1730 750	1730 750	- -	1780 800	1780 800	<u> </u>	1880 930	1880 930	1880 930
Performances for temperature Maximum temperature Minimum temperature		+180 +10	+180 -40	+180 -70	+180 +10	+180 -40	+180 -70	+180 +10	+180 -40	+180 -70
	/min /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 max. W	/	-	800	550	-	800	550	-	1100	700
Temp. constancy in time 1) K Temp. homogeneity in space 7 K		±0.3 to ±1.0 ±0.5 to ±2.0								
Perform. for climate tests – on Temperature range °C Dewpoint temperature range °C Humidity range % Humidity constancy % Temp. constancy in time 1) K Temp. homogeneity in space 7) K	+10 to +95 +5.5 to +94 10 to 98 ±1 to ±3 ±0.3 to ±0.5 ±0.5 to ±1.5									
Power supply	1/N/PE AC 230 V ±10 %/50 Hz									
Max. current comsumption ap	W pprox. A B(A)	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

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 ⁷) referring to the adjusted setpoint value in the temperature range of a minimum temperature to 150 °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.

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

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