



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.



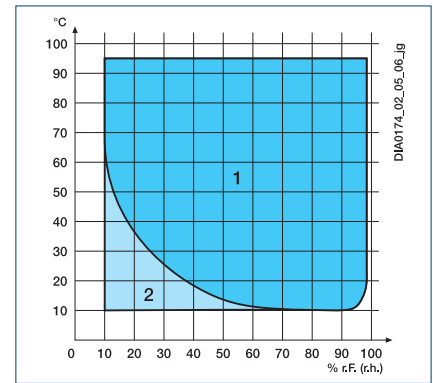
Operating terminal MINicontrol* and independent, adjustable temperature limiter (t_{min}/t_{max})

For versatile applications around-the-clock ...

- control and program control MINCON/32* with program storage for a max. of 100 programs
- interface RS 232C
- 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 MINCON control with operating panel MINCONTROL*
- observation window
- test space lighting
- independent, adjustable temperature limiter t_{min}/t_{max}
- voltage-free contact for switching test item
- interface RS 232 C
- refrigeration system, air-cooled
- psychrometric humidity measurement (WKL)
- steam humidifier (only with WKL)
- 1 access port 50 mm
- 1 shelf
- calibration of 2 temperature values (WTL) and 2 humidity values (WKL) with certificate
- software package SIMPATI*
- temperature measurement on specimen
- capacitive humidity sensor
- interface IEEE 488
- networking (RS 485 interface)
- centronics interface
- compressed air dryer
- additional access ports
- additional shelves
- mobile base (standard on WKL 34/70 and WKL 64/70)
- automatic water supply (WKL)
- demineralisation unit (WKL)
- special voltages

Options ...

- colour touch panel
- Ethernet-/LAN-interface (10/100 MBit) in connection with SIMPATI* for integration network

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	ca. l	34	34	34	64	64	64	100	100	100
Test space dimensions	height mm	310	310	310	400	400	400	540	540	540
	width mm	350	350	350	470	470	470	490	490	490
	depth mm	300	300	300	345	345	345	380	380	380
External dimensions	height mm	980	980	1730	1070	1070	1776	1190	1190	1190
	width mm	625	625	625	745	745	745	765	765	765
WTL	depth mm	-	750	750	-	800	800	-	930	930
WKL	depth mm	930 ²⁾	930 ²⁾	750 ⁵⁾	980 ³⁾	980 ³⁾	800	1105 ⁴⁾	1105 ⁴⁾	1105 ⁴⁾
Incl. base (extension)	height mm	1730	1730	standard	1776	1776	standard	1876	1876	1876
	depth mm	750	750	standard	800	800	standard	930	930	930
Performances for temperature tests										
Temperature range	°C	+10 / +180	-40 / +180	-70 / +180	+10 / +180	-40 / +180	-70 / +180	+10 / +180	-40 / +180	-70 / +180
Temperature constancy in time ¹⁾	K	±0.3 to ±1								
Temperature constancy in space	K	±1.0 to 2.0								
Temperature gradient ¹⁾	K	2 to 4								
Change rate ¹⁾										
Heating	K/min	1.5	2.0	2.5	1.5	2.0	2.5	1.5	2.5	2.5
Cooling	K/min	3.5	4.0	3.0	3.5	4.0	3.0	3.0	3.5	3.0
Heat compensation max.	W	-	800	550	-	800	550	-	1100	700
Calibration values +23 °C and +80 °C										
Perform. for climate tests – only WKL										
Temperature range	°C	+10 / +95								
Humidity range	% r. h.	10 to 98								
Humidity constancy	% r. h.	±3 to ±5								
Temperature constancy in time ¹⁾	K	±0.1 to ±0.5								
Temperature constancy in space	K	±0.5 to ±1.5								
Temperature gradient ¹⁾	K	1 to 3								
Calibration values +23 °C / 50 % r. h. and +95 °C / 50 % r. h.										
Power supply 1/N/PE AC 230 V ±10 %, 50 Hz, 16 A										
Max. connected load	kW	1.8	1.8	2.5	1.8	1.8	2.5	2.7	3.0	3.5
Condenser air-cooled										
Sound pressure level ⁶⁾	dB(A)	56	56	59	56	56	59	56	56	59
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 790 mm ³⁾ with the optional base (extension) the depth is reduced to 960 mm. ⁴⁾ with the optional base (extension) the depth is reduced to 930 mm ⁵⁾ depth with standard base

⁶⁾ 1 m distance from the front at free field measurement according to DIN 45635, part 1, accuracy class 2

Subject to technical modifications. Equipment partly shown with options.

Test systems for professionals. Test the best...

A complete line of systems is available offering test space volumes ranging from approx. 34 l to 2,160 litres, a working range from -75 ... +180 °C and relative humidity values ranging from 10 ... 98 % r.h.

We also offer an extensive line of field-proven test systems specially for simulating exposure to weather, temperature shock, corrosion and long-time tests for application in research, development, quality control and production.

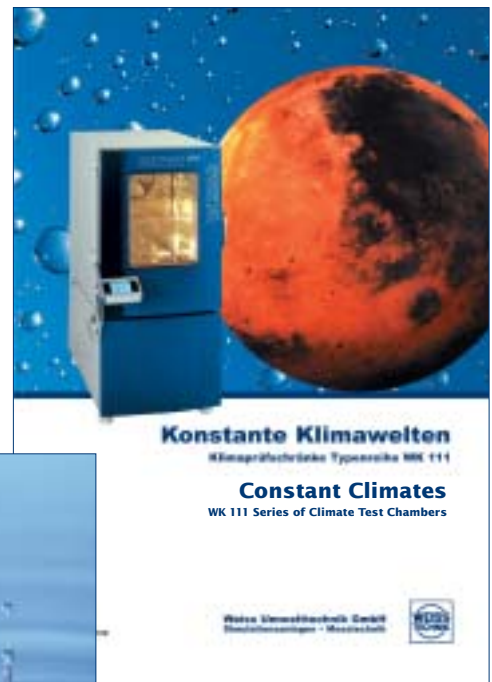
Of course, Weiss – as one of the leading producers of environmental simulation systems world-wide – offers the entire spectrum of high-tech test systems starting from a series of cost-effective test systems up to customised walk-in chambers and in-line systems.

If it's know-how, service and reliability that you are looking for – contact Weiss Umwelttechnik.

You can find further information, technical branch offices in Germany, subsidiaries and representations worldwide at

www.weiss.info

Please contact us for more brochures covering the subject area ...



Weiss Umwelttechnik GmbH
Simulationsanlagen • Messtechnik

35447 Reiskirchen-Lindenstruth / Germany • Greizer Str. 41-49
Telefon (0 64 08) 84-0 • Telefax (0 64 08) 84-87 10
www.weiss.info • www.wut.com • eMail: info@wut.com