

**NEURTEK**

instruments

**weisstechnik**<sup>®</sup>  
a schunk company

Climate Test  
Chambers  
ClimeEvent





# Test whatever you like.

From bricks to circuit boards - in research, development and quality control, you won't want to take any chances. We'll support you.



## From North Pole to the Tropics.

Seasonal differences, different climatic zones - your products must be able to withstand a variety of temperatures during manufacturing, transport, storage and use. The **weisstechnik** Climate Test Chambers ClimeEvent help you to test the influence of temperature and humidity on the properties, function and lifespan of your products. Reproducible, certified and under accelerated conditions.

## Lots to test? No problem!

When testing your products, you must adhere to numerous test standards and carry out long-term tests. Our test chambers are designed for these situations. Our models cover a wide range of applications and satisfy every need. For specific requirements, you can upgrade every system with many options based on your individual needs.

# Perfection in performance, equipment and design.

## Climate Test Chambers ClimeEvent.

### Completely thought through.

We know what matters for your tests: reliable, precise and reproducible results. That's why we design our test chambers to meet exactly these demands. Because incorrect results lead to incorrect conclusions. With this in mind, we already eliminate any interference factors during the design phase, relying on our comprehensive expertise and years of experience.

### Perfectly manufactured.

For us, quality is our daily business. We use only high-quality materials and manufacture many of the components for our test chambers in-house. In addition, we also have regular quality checks in place throughout the entire production process.

### Absolutely low maintenance.

Set up, plug in, start the test. The intelligent, compatible control elements and intuitive user interface guarantee easy operation. Easily accessible maintenance elements ensure minimal service times. Diagnostics and inspection systems in every machine additionally shorten downtimes and optimise maintenance periods.



### Highlights at a glance:

- New, eco-friendly refrigerant
- Optimised airflow and temperature distribution
- WEBSeason® web-based user interface

# More equipment, right from the start.

Basic equipment setting standards.



Image contains optional equipment

You can find further details on equipment in our technical descriptions. **Contact us.**

## Exterior



- **Safely into the future - using the new refrigerant**

The new refrigerant R449A is used in all Climate Test Chambers ClimeEvent. The GWP value of just 1397 ensures safe usage even after 2030, and the refrigerant does not have to be replaced. As a result, we are already surpassing today the statutory standards of tomorrow as well as future-proofing your tests and making them easier to maintain and more environmentally friendly.

## Interior



- **Art of engineering for more performance**

The smartly engineered air guidance and the supply and exhaust air control system, which comes as standard, ensure the best performance in its class for ClimeEvent.

- **No chance for dirt or corrosion**

The test chamber floor is made of highly-alloyed, extra corrosion-resistant stainless steel 1.4404. Thanks to special welding, smooth surfaces, rounded corners and complex stamped grid layers, the test chamber is easy to clean. Standard humidity bath flushing prevents contamination of humidification water.

- **Reliably tested**

The humidity of the test space air is measured according to the internationally valid psychrometric measuring principle. The life time of the psychrometer wick is considerably increased due to a self-cleaning mechanism.

## Regulation & Control



- **In the age of connectivity - with WEBSeason®**

You can use the innovative WEBSeason® user interface to program, control and monitor your tests at any time and anywhere, even from your tablet or smartphone. Language and units can be set to suit the user and the settings can be saved. In this way, WEBSeason® provides a new dimension of flexibility and efficiency.



Thanks to the greenmode®, which comes as standard, ClimeEvent is the most energy-efficient device in its class.



# Tailor-made testing.

Optional equipment for individual solutions.

## Exterior



- **Everything at a glance**  
A multi-isolated observation window and the optimised test chamber lighting guarantee an optimal view.
- **Mobile and flexible**  
Two fixed and swivel castors in the mobile version allow for sufficient mobility.

## Interior



- **Makes heavy loads child's play**  
Thanks to strengthened shelf and heavy load rails for up to 500 kg surface load, you can test even heavy weights extensively.
- **High or low, whatever you prefer**  
One or several drawers on telescopic rails can be flexibly positioned in the test chamber and offer secure support.

## Regulation & Control



- **Set standards in communication**  
With SIMPATI® software, operating, documenting and archiving your test sequences is as easy as child's play.



Image contains optional equipment

You can find further details on equipment in our technical descriptions. **Contact us.**

Developed exclusively for you:  
The unique software package  
for the perfect test process.



# Convincing technology. Reliable results.

The performance data at a glance:

Type	Dimensions of housing, H x W x D <sup>1</sup>	Test space dimensions, H x W x D	Minimum temperature <sup>2</sup>	Maximum temperature	Temperature-changing rate cooling <sup>3</sup>	Temperature-changing rate heating <sup>3</sup>	Temperature deviation in time <sup>4</sup>	Temperature homogeneity in space <sup>5</sup>	Heat compensation at +20 °C	Heat compensation at -20 °C	Minimum temperature <sup>2</sup>	Maximum temperature	Dew point temperature range	Humidity range	Humidity constancy in time	Temperature homogeneity in time <sup>4</sup>	Temperature homogeneity in space <sup>5</sup>	Maximum heat compensation <sup>6</sup>						
	mm	mm	°C	°C	K/min	K/min	K	K	W	W	°C	°C	°C	% RH	% RH	K	K	W						
<b>PERFORMANCES FOR</b>			<b>TEMPERATURE TESTS</b>							<b>CLIMATIC TESTS</b>														
<b>With temperature-changing speed of 3 K/min</b>																								
ClimeEvent C/180/40/3	1800x895x1570	750x580x450	-42	+180	4.0	4.0	±0.1 to ±0.5	±0.5 to ±1.0	2300	700	+10	+95	+4 to +94 (to -3) <sup>7</sup>	10 to 98	±1 to ±3	±0.1 to ±0.3	±0.5 to ±1.0	400						
ClimeEvent C/180/70/3	1800x895x1570	750x580x450	-72	+180	3.0	4.0			2300	1400	+10	+95						400						
ClimeEvent C/340/40/3	1800x895x1885	750x580x765	-42	+180	4.0	3.2			2300	700	+10	+95						400						
ClimeEvent C/340/70/3	1800x895x1885	750x580x765	-72	+180	3.0	3.0			2300	1400	+10	+95						400						
ClimeEvent C/600/40/3	2000x1115x1930	950x800x800	-42	+180	3.0	4.0			2500	800	+10	+95						500						
ClimeEvent C/600/70/3	2000x1115x1930	950x800x800	-72	+180	2.5	4.0			2500	2400	+10	+95						500						
ClimeEvent C/1000/40/3	2000x1415x2105	950x1100x950	-42	+180	3.0	4.0			4500	1300	+10	+95						500						
ClimeEvent C/1000/70/3	2000x1415x2105	950x1100x950	-72	+180	2.5	4.0			4500	2800	+10	+95						500						
ClimeEvent C/1500/40/3	2000x1415x2630	950x1100x1475	-42	+180	2.5	3.5			4200	1300	+10	+95						500						
ClimeEvent C/1500/70/3	2000x1415x2630	950x1100x1475	-72	+180	2.3	3.5			4200	2800	+10	+95						500						
ClimeEvent C/2000/40/3	2000x1415x3305	950x1100x2150	-42	+180	2.0	3.0			3500	1100	+10	+95						500						
ClimeEvent C/2000/70/3	2000x1415x3305	950x1100x2150	-72	+180	1.5	2.5			3500	2800	+10	+95						500						
<b>Calibration values (factory calibration):</b>			+23 °C and +80 °C									+23 °C/50 % RH and +90 °C/50 % RH												

<sup>1</sup>The required clearances can be reduced by dismantling components.

<sup>2</sup>Discontinuously.

<sup>3</sup>According to IEC 60068-3-5; measured on average, in the temperature range of minimum temperature to +150 °C.

<sup>4</sup>In steady state, depending on the temperature.

<sup>5</sup>Depending on the adjusted set point value; in the temperature range of minimum temperature to +180 °C.

<sup>6</sup>Between +25 °C and +90 °C and humidities to approx. 90 % RH.

<sup>7</sup>Intermittent operation.

The performance data refer to +25 °C ambient temperature, and an altitude of ≥ 1000 m over mid sea level, cooling water temperature +18 °C, 400 V/50 Hz nominal voltage, without specimen, optional equipment and heat compensation. The product needs fluorinated gases for functioning.

Depending on the type, it contains refrigerants R449A and R23.

**We reserve the right to make any technical alterations.**

# Become more efficient.

Our solutions will save you time and money.

Get the most out of your test facility.



Create your own perfect testing process with the SIMPATI® software package.

Process management/documentation/networking

- Up to 99 systems can be connected
- Programs for automated processes
- Documentation, visualisation and management of process data
- Traceability of process data for seamless quality control

# Quicker, longer, harder.

Test Chambers for special requirements.

Is there explosion hazard originating from your product? Do you want to carry out a weathering test on your product including temperature change and UV rays? No problem! On request, we will equip your Test Chamber with explosion protection or an irradiation unit. Integration of further parameters is also possible - contact us!



We measure ourselves by our service!

Our services - lots of good arguments:

- Global service network
- Wide selection of preventive maintenance
- Reliable spare part supply
- Special deployments available any time
- Training programmes for our customers
- Certified proper disposal of outdated devices

You can always find a **weisstechnik** expert near you.

24/7-Service-Helpline:  
+49 1805 666 556

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

Our solutions are deployed around the world in research, development, production and quality assurance of numerous products. Our experts from 21 companies are at your service in 14 countries, ready to provide support to ensure high operational reliability of your systems.

Weiss Umwelttechnik is one of the most innovative and significant manufacturers of environmental simulation systems. With these testing systems, we can simulate all climatic conditions around the globe and beyond, under accelerated conditions. Whether temperature, climate, corrosion, dust or combined shock testing: we have the proper solution. We supply systems in all sizes, from standard versions up to customised, process-integrated facilities - for high reproducibility and precise test results.

Vötsch Industrietechnik, a subsidiary of Weiss Umwelttechnik, offers a wide product portfolio in the field of heating technology. With an experienced team of engineers and designers, we develop, plan and produce high-quality and reliable heating technology systems for virtually any field of application. Products include heating/drying ovens, clean room drying ovens, hot-air sterilisers, microwave systems and industrial ovens. The portfolio reaches from technologically sophisticated standard versions to customised solutions for individual production operations.

A further Weiss Technik company, Weiss Klimatechnik, also offers reliable climate solutions wherever people and machinery are challenged: in industrial production processes, hospitals, mobile operating tents or in the area of IT and telecommunications technology. As one of the leading providers of professional clean room and climate solutions, we deliver effective and energy-saving solutions. Our experts will guide you from the planning to the implementation of your projects.

Weiss Pharmatechnik, a subsidiary of Weiss Klimatechnik, is a competent provider of sophisticated clean room and containment solutions. The product range includes barrier systems, laminar flow facilities, security workbenches, isolators and double door systems. The company emerged from Weiss GWE and BDK Luft- und Reinraumtechnik and has decade-long experience in clean room technology.

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