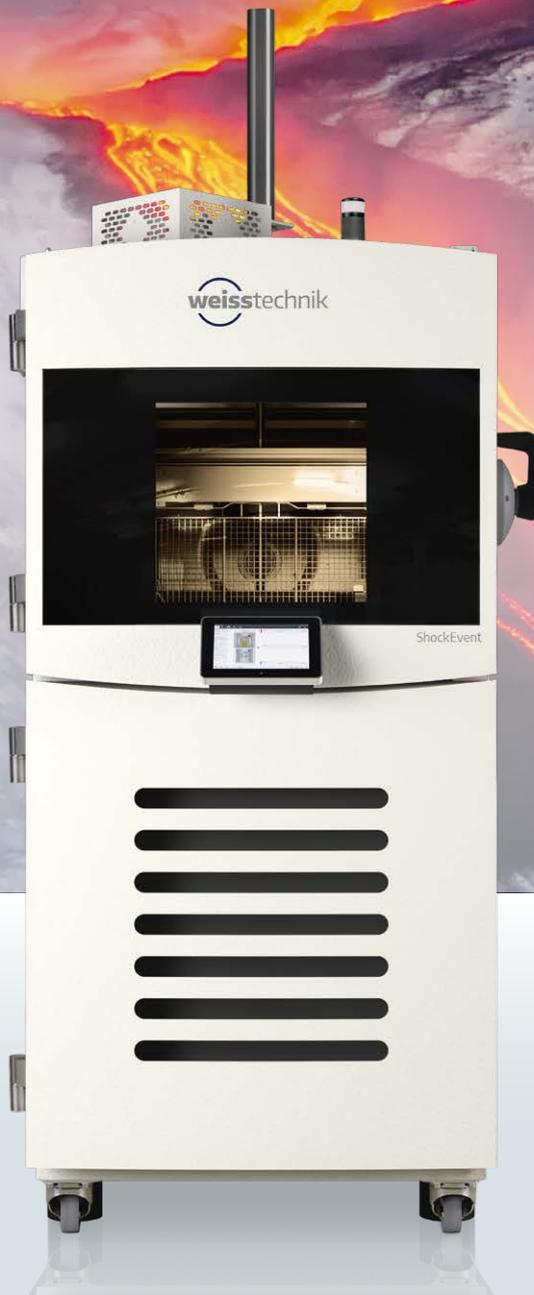


Our Temperature Shock Test Chambers.  
Shaping the future together.  
**With the ShockEvent.**



# Test whatever you like.

From components to assemblies and semiconductors - in research, development and quality control, you won't want to take any chances. We'll support you.



## A load test for your products.

Environmental conditions have a great influence on the functionality and reliability of the electronic components, devices and systems. A normal temperature test is often not sufficient to detect latent weak points as quickly as possible. Test specimens must be subjected to multiple, shocklike temperature changes. With our Temperature Shock Test Chambers ShockEvent, extremely fast temperature changes from -80 to +220 °C can be achieved. This helps you to reduce early failures and to increase the reliability of your products. Reproducible, certified and in fast motion.

## 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.

Temperature Shock Test Chambers ShockEvent.

## Precisely engineered.

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 your needs 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 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.

## Our highlights:

- Alternate test methods for test specimens: vertical shock and damper shock
- Eco-friendly R469A (WT69) refrigerant for damper shock
- Web-based user interface WEBSeason
- Energy saving mode as standard
- With over 1,000 cycles without defrosting (ShockEvent T)

# More inside, right from the start.

Basic equipment setting standards.

## Interior



### Testing without defrosting.

The integrated volume compensation system prevents icing in the cold chamber. Endurance tests with over 1,000 cycles can be run without defrosting.

### Freedom for your specimen!

To prevent the test specimen from being caught between the lifting basket and the container wall, the movable basket is secured on all sides by removable mesh panels.

## Exterior



### Sustainable for the future - cool!

All ShockEvents use R469A refrigerant. With a GWP of just 1,357, this refrigerant can be safely used even beyond 2030 and does not need to be replaced. With this, we are already exceeding tomorrow's legal standards today. Making your testing future-proof and as environmentally friendly and serviceable as possible.

## Communication



### Connectivity that works for you.

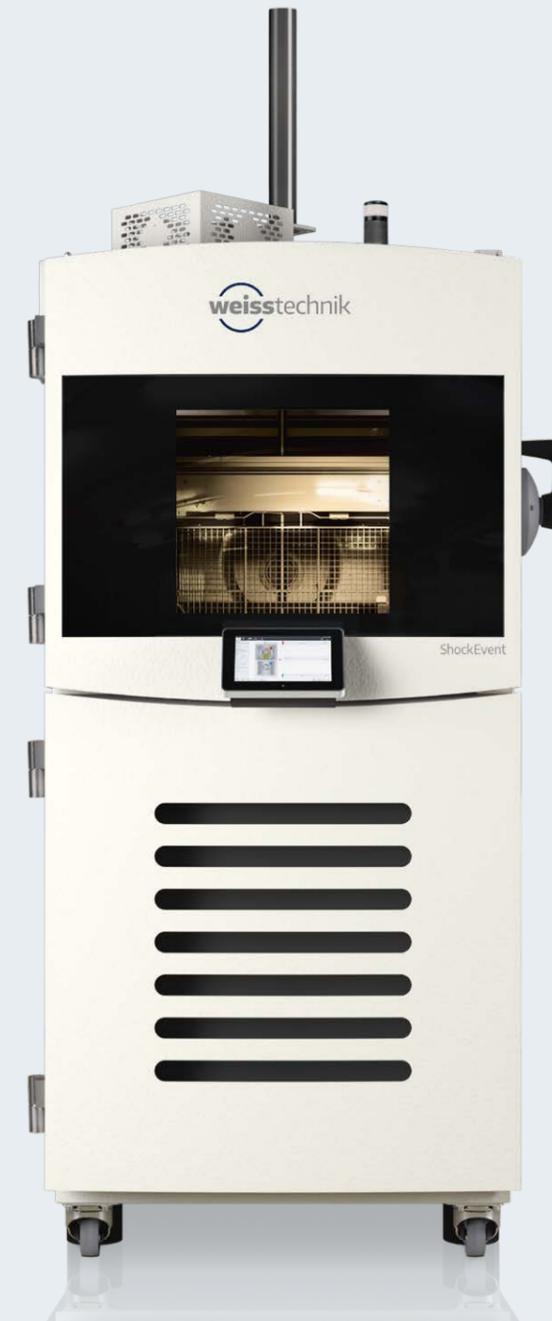
Testing and diagnostic information is relayed to the PC through the Ethernet port or can be saved to a flash drive plugged into the USB port. Monitoring and control are possible from any workstation computer.

## Regulation + Control



### Connectivity meets usability!

With the innovative user interface, you can program, control and monitor your test anywhere, any time - even from a tablet or smartphone. Languages and units can be set and saved for each user. WEBSeason creates a new dimension of flexibility and efficiency.



See our data sheet for more details. Please feel free to contact us.

Thanks to energy saving mode as series, ShockEvent is the most energy-efficient unit in its class.

# Tailored testing.

Options for custom solutions.



## Interior



### Hotter? No problem.

If needed, the standard temperature range can be increased from +220 to +250 °C. Only with the 60 liter and 120 liter ShockEvent T variants..

### Get involved!

To allow leads, connectors and other equipment in the lifting basket, an additional access port 125 mm in diameter can be installed.

### Optimal stress for your specimens.

The lifting basket's variable transfer time between hot and cold chamber makes it possible to find the optimal stress condition with ease.

## Regulation + Control



### Testing has never been so easy.

The software SIMPATI makes operation, documentation and archiving of your test processes child's play.

See our data sheet for more details. Please feel free to contact us.

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



# For the extra sensitive.

Nothing moves here, not even the test specimen.

## Interior



### One chamber for everything.

With the damper shock method, 3 temperature zones (hot, cold, ambient) can be simulated in the same chamber. This allows for optimal stress conditions without having to move the test specimen.

### Getting the test equipment in there!

To insert cables and connections, the basic version has installed an access port of 50 mm diameter on the left. Movements of the loaded cables are prevented by the stationary test space.

### Well distributed, efficiently tested.

The specimens can be distributed on up to seven insert baskets, allowing for a total load of up to 150 kg.

## Exterior



### Award-level cool!

Especially developed by **weisstechnik**, R469A (WT69) refrigerant delivers uncompromising results down to -65 °C with a minimum GWP of just 1,357. It even won 2 awards in 2020: the German Innovation Award "Gold" for the sector Chemical Industry and "Winner" for the sector Energy Solutions.

## Regulation + Control



### Simply always in control.

With the built-in control software WEBSeason, you monitor everything conveniently: regardless of location or device, the multi-user concept allows simultaneous access of multiple participants worldwide. Easily programmed, test sequences are available with a preview graphic and multiple sensors provide the data necessary for flexible recording.



See our data sheet for more details. **Please feel free to contact us.**

**Here's how it works!**

The test sequence for the damper shock testing method illustrated for you in a brief animated video.



# Tailored, sensitive testing.

Options for custom solutions.



## Interior



### Optimal accommodation for your test specimen.

To place leads, connectors and other equipment in the test chamber, a rectangular feedthrough (HxW/mm 160 x 50) can be installed on the left side of the chamber.

### Flexible measuring? Not a problem!

More interfaces: 5 analogue signal outputs to an external data acquisition and 4 optional sensor connections enhance flexibility and allow temperatures to be recorded on customer equipment.

## Regulation + Control



### Fit despite stress.

Optionally, temperature can also be measured and regulated from anywhere in the test space with a mobile temperature sensor, even directly on the test specimen.

### Pretty smart!

Our control software SIMPATI is ready to meet the needs of industry 4.0. Maximum flexibility and connectivity, ease of use and maximum reliability guarantee seamless integration into automated processes at any time.

### Simply stay globally up to date.

SIMPATI online extends your software functions and allows for access to your systems, including automated test reports, from anywhere in the world. Its secure cloud service runs on Microsoft Azure and, thanks to automatic updates, keeps you in the latest state at all times.



Download  
for free now:



See our data sheet for more details. Please feel free to contact us.

# Our products – your standards.

Standardised temperature shock tests.

| ShockEvent  | T/60/<br>V2   | T/120/<br>V2-32 | T/120/<br>V2  | T/120/<br>V2/P | T/300/<br>V2  | T/300/<br>V2/P | D/210/<br>a/V1 | D/210/<br>e/V1 |
|---|---------------|-----------------|---------------|----------------|---------------|----------------|----------------|----------------|
| <b>Standards shock mode</b>                           |               |                 |               |                |               |                |                |                |
| IEC 60068-2-14 Na                                     | ✓             | ✓               | ✓             | ✓              | ✓             | ✓              | ✓              | ✓              |
| MIL-STD-810H,<br>Method 503.7                         | ✓             | ✓               | ✓             | ✓              | ✓             | ✓              | -              | -              |
| MIL-STD-883L-1,<br>Method 1010.9                      | A, B, C, D, F | A, B, C, D, F   | A, B, C, D, F | A, B, C, D, F  | A, B, C, D, F | A, B, C, D, F  | A, B           | A, B           |
| JASO D 014-4  | ✓             | ✓               | ✓             | ✓              | ✓             | ✓              | ✓              | ✓              |
| <b>Standards 3-zone test</b>                          |               |                 |               |                |               |                |                |                |
| MIL-STD-202G,<br>Method 107G                          | -             | -               | -             | -              | -             | -              | A              | A, B, C, F     |
| EIAJ ED-2531B Na                                      | -             | -               | -             | -              | -             | -              | ✓              | ✓              |
| <b>Standards single-chamber operation<sup>1</sup></b> |               |                 |               |                |               |                |                |                |
| IEC 60068-2-1,<br>Test A                              | ✓             | ✓               | ✓             | ✓              | ✓             | ✓              | -              | -              |
| JEDEC JESD22-A119                                     | ✓             | ✓               | ✓             | ✓              | ✓             | ✓              | -              | -              |
| MIL-STD-810H,<br>Method 502.7                         | ✓             | ✓               | ✓             | ✓              | ✓             | ✓              | -              | -              |
| ETSI EN 300019-2-4,<br>Test Ab/Ad                     | ✓             | ✓               | ✓             | ✓              | ✓             | ✓              | -              | -              |

<sup>1</sup>Only valid in the cold chamber of the vertical shock test chamber in the restricted temperature range and with restricted rates of temperature changing rate.

The temperature values (severity levels) specified in the standards are restricted by maximum and minimum test space temperature. The appropriate test chamber must be selected in accordance with the required rates of temperature change for alternating tests. The regulations are fulfilled if the performance is such that the influence of the DUT and its heat emission can be compensated for in the performance range under consideration. Please contact us to check the feasibility with your test specimens.

Reference point for the test values and tolerance specifications is the centre of the test space. Verification documentation for individual test values is available as a fee-based option. Your test standard is not included in the list? Contact us!

## Our standards finder. The right one for every test.

Our test chambers are suitable for a wide range of tests. Our service for you: a selection of test specifications and standards covering a wide range of industrial and works standards – offered by our in-house-developed standards finder on our website.



Find out which test chambers best suit your needs:

## Testing on demand. Inquire today - test next week.

Our extensive pool of stock and rental equipment provides you with a selection of equipment available at short notice. These include temperature and climatic test chambers as well as stability test chambers, corrosion test chambers and temperature shock test chambers.



Just take a look around – your available unit is just a few clicks away:

# We measure ourselves by our service.

We think and act collaboratively service-oriented. With our service teams, we offer sustainable solutions for long-term safe system operation.



Our services - lots of good reasons:

- Global service network
- Wide range of preventive maintenance
- Reliable spare part supply
- Special deployments available any time
- Certified proper disposal of outdated devices

Our Service Experts are always near you.

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

## Professional consulting.

Our experienced experts are ready to support you from the first idea to after-sales service in every step of your project, by telephone or on site.

## Maintenance and servicing.

We offer different service levels and guaranteed reaction times after the receipt of the fault report. Our full maintenance service provides additional safety with calculable costs.

## Spare part management.

Many spare and wearing parts are directly available in our warehouse. To further increase operational reliability, selected spare parts can additionally be stocked on site. We would be pleased to advise you further.

## Instruction and training.

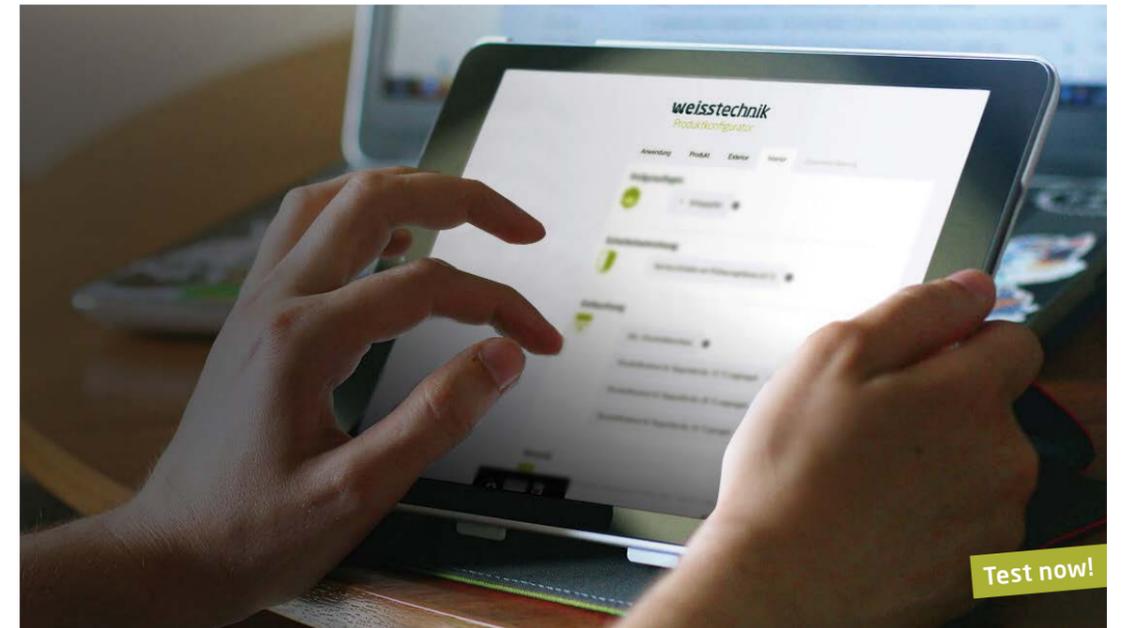
We provide regular trainings covering the application, operation and software of the units. We also offer customer-specific workshops at your location on request.

# Testing without limits.

Test chambers for every need.

We have a broad range of devices and systems for environmental simulation. No matter whether temperature, climate, vibration, corrosion, emission, altitude, pressure or combined stress testing: we have the right solution for you and deliver systems in all sizes, from series versions to customer-specific, process-integrated systems. For high reproducibility and precise test results.

You too can benefit. **Contact us!**



## The weisstechnik Product Configurator is here!

Simply configure your very own ShockEvent. The online tool guides you through the configuration for your specific application in just a few steps. Test us!



# Passionately innovative.

We work in partnership to support companies in research,  
development, production and quality assurance.  
With 22 companies in 15 countries at 40 locations.

weiss**technik**  
For a safe future.



## Environmental Simulation

The first choice for engineers and researchers for innovative, safe environmental simulation facilities. In fast motion, our test systems can simulate all the influences in the world as well as for instance in space. In temperature, climate, corrosion, dust or combined stress tests. With a very high degree of reproducibility and precision.



## Air Solutions

As the leading provider of clean rooms, climate technology and air dehumidification, we consistently ensure optimal climatic conditions for people and machines. For industrial production processes, in hospitals, mobile operation tents or in the field of information and telecommunications technology. From project planning to implementation.



## Heat Technology

Experienced engineers and designers develop, plan and produce high-quality, reliable heat technology systems for a broad range of applications from heating and drying cabinets to microwave systems and industrial furnaces.



## Pharmaceutical Technology

With decades of experience and know-how, we guarantee the most sophisticated clean air and containment solutions. Our comprehensive and innovative range of products includes barrier systems, laminar flow systems, safety workbenches, isolators, airlocks and stability test systems.

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Scan here to  
see the product.



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