



Corrosion Alternating Test Chambers SaltEvent SC



www.weiss-technik.com

Illustration is similar, contains options

Test whatever you like.

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



Corrosion firmly under control.

High humidity, salty air, seawater, and gritting salt - many small and large things in daily life are exposed to corrosive atmospheres. Corrosion does not just affect base metals, but also high-alloyed, tempered materials, plastics, and painted surfaces. That's why corrosion resistance is an important quality indicator and safety feature for many products. With the **weisstechnik** Corrosion Alternating Test Chambers SaltEvent SC, you can simulate the effect of salt spray and condensation. 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.

Corrosion Alternating Test Chambers SaltEvent SC.

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. No installation necessary. 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.

Reliable measurement results are possible thanks to:

- Optimal spray mist distribution due to a precision two-component nozzle
- Extremely stable temperatures due to a double-shell construction with internal insulation and heated compressed air humidifier with water level control
- Adjustable flow meter and doser for solution
- Test space and hood construction in accordance with all standards: any droplets created by the spray cannot drip on the samples tested.



tested by



Fraunhofer
ICT

The Fraunhofer Institute for Chemical Technology ICT has carried out a qualification examination of the corrosion salt spray chamber. Test Report No.: US 07916/2016 confirms compliance with the normative requirements.


Better than the norm!

The structural design of the device enabled an up to 60% better temperature distribution to be achieved than that required by DIN EN ISO 9227. The highly precise temperature and spray distribution allowed a very homogeneous test climate to be generated, whereby deviations in the corrosivity measurements amounted to no more than 12% of the normative requirements ($\pm 20 \text{ g/m}^2$), distributed over 6 reference sheets in the test space.

More equipment, right from the start.


Basic equipment setting standards.

Exterior




- Everything is sealed**
The hood and test chamber are hydrostatically sealed using a U-shaped profile. The resulting groove is automatically filled with demineralised water and prevents salt spray from getting into the laboratory - safely and permanently.

Interior



- Stay flexible**
The brine solution required for the tests is stored in a removable, portable brine tank. This tank is easy to clean and can be fully disconnected without using any tools if required.
- Test more**
The specimen can be distributed on the support beams or the floor grid. Beams can be placed at 2 different heights, the pipes can be arranged in a given pattern. This maintains flexibility while testing different samples.

Communication



- Networking according to your needs**
Test and diagnostics information are sent to a PC via Ethernet interface or can be stored on a flash drive using the USB interface. Monitoring and control is possible from any workplace computer.



Illustration is similar, contains options

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

Reliable control as a standard:
Digital measurement and control system for
operating and monitoring the test chamber.



Tailor-made testing.

Optional equipment for individual solutions.



Illustration is similar, contains options

Exterior



- **Fresh air**
Using a ventilation system complying with DIN 50014-5, the corrosive test chamber air can be removed from the test chamber.

Interior



- **Precise measurements**
You can measure the corrosive precipitation rate automatically at up to 8 points in the test space. The mean value of the precipitation rate is displayed and updated throughout the test.
- **Safe dosages**
The unit can also be equipped for tests in an alternating climate with an atmosphere containing SO₂ in accordance with DIN 50018 using an automatic gas dosing device. The additional lock prevents an accidental opening while the test is running.

Regulation & Control



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

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			SaltEvent SC 500	SaltEvent SC 1000
Test space volume		l	504	1028
Test space dimensions ¹	Height with hood	mm	1140	1140
	Height without hood	mm	720	720
	Width	mm	875	1670
	Width with spray duct	mm	765	1560
	Depth	mm	645	645
Exterior housing dimensions ¹	Height	mm	1370	1370
	Width	mm	2100	2925
	Depth	mm	980	980
Temperature range	Salt spray test		5 K above ambient temperature up to +50 °C	
	Condensed water test		5 K above ambient temperature up to +42 °C	
Temperature stability ² in time		K	±1.0	±1.0
Water consumption	Salt spray test	l/h	0.4	0.4
	Condensed water test	l	18.0	34.0
Consumption of brine	Salt spray test	l/h	0.4	0.9
Air throughput ³	Salt spray test	m³/h	1.4	1.4
Calibration values ⁴ for test space temperature	Salt spray test	°C	+35	+35
	Condensed water test	°C	+40	+40
Calibration value ⁴ for pressure humidifier temperature		°C	+49	+49

¹Production-related tolerances of up to ±10 mm are possible.
²The evidence of temperature stability takes place at ambient temperature of +23 °C ±2 K in the middle of the test space when this is empty and in a steady state, without specimen, heat radiation and optional equipment.
³At 0 °C and 1 bar.
⁴Factory calibration.
The performance data refer to +23 °C ±2 K ambient temperature, 230 V/50 Hz nominal voltage, without specimen and without optional equipment. The permitted ambient temperature is between +18 °C and +30 °C. The max. permitted humidity must not exceed 75 % RH.
We reserve the right to make any technical changes without prior notice.

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



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
- Certified proper disposal of outdated devices

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

24/7 Service Helpline:
+49 1805 666 556

weisstechnik

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 22 companies are at your service in 15 countries at 40 locations. They provide optimum support and ensure high operational reliability of your systems.

Weiss Umwelttechnik and Vötsch Industrietechnik are among 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 also offers a wide product portfolio in the field of heat technology. With an experienced team of engineers and designers, we develop, plan and produce high-quality and reliable heat 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.

Weiss Klimatechnik delivers reliable climate solutions wherever people and machinery are challenged: in industrial production processes, in clean rooms, measuring rooms, 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 offer effective and energy-saving solutions. Our experts will guide you from the planning to the implementation of your projects.

Weiss Pharmatechnik 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 the established enterprises Weiss GWE and BDK Luft- und Reinraumtechnik and has decade-long experience.

Weiss Umwelttechnik GmbH

Greizer Straße 41-49
35447 Reiskirchen/Germany
T +49 6408 84-0
info@wut.com
www.weiss-technik.com



UT-SaltEvent-SC-01.2E/PP 1.0/04 2017