Our solutions are deployed around the world in research, development, production and quality assurance of numerous products. Our experts are available at 22 locations in 14 countries, ready to provide support services to ensure high operational reliability of your systems.

Weiss Umwelttechnik is one of the most innovative and pre-eminent manufacturers of environmental simulation systems. With these testing systems, we can simulate all climate conditions around the globe, and beyond in time lapse. 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.

Our subsidiary Vötsch Industrietechnik 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 oven systems. The programme reaches from technologically sophisticated standard versions to customised solutions for individual production operations.

Furthermore, 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 and expertly guide you through your entire project, from planning to implementation.

Our subsidiary Weiss Pharmatechnik is a competent provider of sophisticated clean-room and containment solutions. The product range includes barrier systems, laminar flow facilities, security work benches, isolators and double door systems. The company emerged from Weiss GWE and BDK Luft- und Reinraumtechnik and disposes of over 30 years of experience in clean-room technology.
Around the world in 88 hours – with innovative test technology.
Send your vehicle into the desert...
... without even leaving the test site

No matter whether it’s sun, rain, snow, road salt or sea air, at a standstill or driving flat out: your development will be weather-proof after the tests in our systems.

Before you put a vehicle on the road, you have to make sure that the materials and components in it will keep working and remain intact in all environmental conditions. That’s exactly what our test chambers make possible. Our climate chambers can be used for comprehensive testing and simulating drives in a huge variety of conditions. weiss technik test systems can simulate any climate on earth in the blink of an eye, no matter whether it’s the tropics, the Arctic or a desert. Our high precision test systems also ensure that the test results are highly reproducible. That gives you security, shortens development processes and optimises quality and costs during product development. And that keeps you one step ahead of the competition. The shorter your time to market, the bigger your advantage.

weiss technik – harder tests than nature to help you succeed.

Our solutions for heat technology in the automotive field can be found at:

www.voetsch-ovens.com
See what it’s capable of
From airbag sensors through to the entire vehicle

Safety is priority number one when it comes to development and quality assurance.

Weiss technik test technology provides a comprehensive platform for high-speed simulation of all climate, road and driving conditions. This allows you to eliminate weaknesses from the very beginning - providing you with high-performance technology, reliability, a long service life and safety.

Weiss Umwelttechnik: Your specialist for standard test chambers through to customer-specific large-scale facilities.
We love extremes, reproducible test results, energy-efficient processes and excellent service

And that’s exactly what we provide.

• **One-stop shop**: we develop solutions for any test - from sensors through to complete vehicles, from a simple climatic test through to complex combinations of tests, from equipment through to full installation.

• **Calibration**: to make sure your test results are reproducible, we check each test stand before delivery and on a regular basis thereafter as part of our maintenance (DAkkS – Calibration by our subsidiary Vötsch Industrietechnik GmbH).

• **Integrated software**: SIMPATI® - optimum control of test systems, saves time and easy to use for reliable test facility operation.

• **Green mode**: energy-efficient processes reduce costs and protect the climate, because the environment is more than just part of our name.

• **Global sales and service network**: we are everywhere you need us, so that you are always ready to go. We can be with you within 24 hours if necessary.
Double the benefit: Environmentally friendly environmental testing with Green Mode

Our Green Mode solutions reduce the amount of electrical energy required by 40%, decreasing CO₂ emissions by several tonnes.

Weiss Umwelttechnik’s impressive Green Mode solutions are extremely efficient to use. In addition to protecting the environment, they also reduce your operating costs. That’s the double advantage of Green Mode.

Total Cost of Ownership
The total cost of owning the system over its service life is an important factor. This is particularly true for customer-specific systems. The higher initial investment required for Green Mode is quickly balanced out by the reduced energy costs. Decreased coolant usage, noise emissions and network loads also pay dividends.

Sophisticated measures
• Hardware optimisation: State of the art components for optimum energy efficiency
• Intelligent software: activation and deactivation of electrical units like heating systems, compressors or ventilators in line with actual demand
• Customer-oriented systems design: Sophisticated systems design, intelligent combination of components to create a system that is perfectly suited for the task at hand.
We can simulate day and night 365 times in 3 weeks
Because time is money

We want your product’s time to market to be as short as possible.

All of which help you to play it safe during development, quality assurance and production. That’s why Weiss Umwelttechnik provides simulation systems for all climate, road and driving conditions. This allows you to eliminate weaknesses from the very beginning - providing you with high-performance technology, reliability, a long service life, safety and a good reputation.

We provide:
• Component test chambers for electronic, comfort and communication components.
• Explosion-proof test systems for lithium ion batteries and fuel tanks.
• Engine, performance and emissions test chambers.
• Combined test methods.
• A range of systems for testing corrosion resistance and durability.

Please get in touch if you can’t find what you need in our comprehensive range of standard systems. We can also provide individual test systems tailored to your requirements in any size and for any test scenario.
Safety and comfort down to the last detail
Test stands for individual components

Vehicle components have to work perfectly in every situation - whether at a standstill or on the road, in winter or summer, at the coast, in the mountains or in the desert.

Weiss Umwelttechnik has developed a range of different tests in this area which can be run in combination or individually. A car is a high-tech piece of equipment which is only as safe as its electronic components, which are extremely sensitive. Only components that meet your demanding quality standards, are approved for daily exposure to dust, spray and splash water, and extreme temperature fluctuations. We record all of the relevant parameters in our test systems and combine them in a realistic manner.

Application examples
- Windscreen wiper motors
- Window regulators
- Sensors
- Rear view camera systems

No nasty surprises with weisstechnik!

Airbag testing system
Our airbag testing system combines a temperature conditioning chamber with a sliding test frame with runners. An automatically closing gate and a switch cabinet round the system off. The testing system is used to test performance at extreme temperatures between -40 °C and 120 °C while keeping temperature fluctuations within ±1K.
Dust testing system
Dust testing is used to check how well electronic components work in challenging environmental conditions.

Spray and splash water testing equipment
Used to determine the degree of protection which housings provide against water.

Combined vibration test systems
Simulation of mechanical and thermal/climatic factors which have an impact on components and equipment when the car is on the road.

Temperature shock test chambers
Simulate rapid changes in temperature in a test cabinet with two chambers.

For more details on features, please consult our technical specifications. Feel free to get in touch.

Headlight test stand
Our headlight test stand provides a unique combination of temperature and climate testing. They also include a fan unit, sprinkler unit and a vacuum unit. The addition of solar simulation makes the system a complete package which can be used to test headlights to any specifications.
Safely into the future
A boost for e-mobility

Explosion-proof test systems for lithium ion batteries and fuel cells.

Lithium batteries have established themselves as energy storage devices for mobile systems. Increasingly demanding applications require storage systems capable of storing an extremely large amount of energy and providing a lot of power.

Li-ion batteries go through a variety of tests in temperature and climate test chambers.

Temperature tests can overload batteries or cause them to malfunction and can even destroy the battery completely.

As storage capacity goes up, so does the impact of a malfunction and the potential for danger when testing lithium batteries. That’s why keeping laboratory personnel safe is priority number one during tests like these.

To keep your laboratory safe during Li-ion battery tests, we provide test chambers with safety features which are tailored to provide protection against EUCAR hazard levels.
When you need precise measurements
Unique combination of climate and performance test

Test system with integrated measurement robotics.

The WK BM 1000 is the first all-in-one solution to combine measurement robotics with a climate test chamber. It is designed for function-dependent component testing under extreme climatic conditions (-40 °C to +85 °C) with rapid temperature changes during testing and manufacturing.

The WK BM 1000 will give you peace of mind that components like the touch panel for the on-board computer will be fully functional regardless of the environmental conditions.
For snoopers we take time
Tracking emissions

We combine tried and tested technology with environmental protection to help you to track down and reduce hazardous emissions.

Weiss Umwelttechnik provides SHED test chambers which are the standard method for measuring the hydrocarbon emissions of passenger vehicles, motorcycles and passenger vehicle components. Vehicle manufacturers are only approved if they demonstrate compliance with the emissions thresholds and testing procedures of various legislative bodies (EU, EPA, CARB). This can be done in SHED test chambers which are fitted with the required analysis technology and test stand software for performing the tests and documenting the results. Weiss Umwelttechnik provides complete test systems with test chambers of various sizes, all tailored to whatever you are testing - from the fuel hose all the way up to the entire vehicle.

So your customers don’t get any smelly surprises!
**Mini SHED chamber**  
Used for permeation tests in fuel tanks or for HC emission tests for vehicle components carrying fuel.

**Fuel conditioning system**  
Used for refuelling tests for vehicles or tank systems and ORVR refuelling in compliance with legal regulations.

**VOC test chamber E-WKI**  
For measuring volatile organic compounds (VOC) emitted by interior sources. Because it’s not just fuel that smells unpleasant.

For more details on features, please consult our technical specifications. **Feel free to get in touch.**

**RL-SHED Chamber**  
RL-SHED chambers are used for test runs to measure evaporative emissions during driving. With integrated dynamometer, driver instructor unit with ceiling mounted monitor, volume compensation unit, analyser, computer, software and wind fan.

**VT SHED chamber**  
VT/VV SHED chambers are used to measure evaporative emissions for entire vehicles in accordance with EPA, CARB and EU regulations.

The key feature is volume compensation with a tedlar bag or movable ceiling. This makes it possible to set up temperature profiles in hermetically sealed chambers without creating a pressure differential.
On the road again
Realistic testing

Vehicles have to be tested under real-world conditions to determine how they behave. That’s why Weiss Umwelttechnik provides test chambers for running cars.

Whether it’s performance, emission levels, evaporation at various sunlight levels, susceptibility to corrosion in different weather conditions or the combination of factors that come into play on a bumpy road, a car really has to be running to see what it can do. Weiss Umwelttechnik combination test chambers provide a dynamometer, multi-axis vibration table or 4 poster system to simulate any conceivable condition which could affect a vehicle. Combine temperature and moisture, sunlight simulation and infrared radiation, air pressure and airflow levels to your heart’s content. Our years of experience and numerous reference systems around the world guarantee outstanding product quality and problem-free compatibility with all major dynamometer manufacturers.

The devil is in the detail.
We drive him out!
It drives and drives and drives
For the entire life of the car

Corrosion resistance is one of the main quality features that drives purchases, so we put your
test subject in extreme conditions to test its limits.

Moisture, cold, heat, road salt, corrosive gases and global radiation: motor vehicles are exposed to extreme
environmental factors everywhere in every season. The combination of multiple environmental factors represents a
particular challenge for almost any part of a vehicle.

At the same time, warranty and durability requirements are becoming more demanding. That’s why all manufacturers
need to be constantly reviewing and optimising their protective measures to provide better quality than the competition.

Weiss Umwelttechnik has a comprehensive range of systems and processes for performing short-term weather
and corrosion tests as well as climate change and corrosive gas tests in accordance with general standards or customer-
specific testing requirements.

So you know where the limits are.

Climate alternating corrosion test chamber
The climate alternating corrosion test chamber meets DIN 50 021/
DIN EN ISO 9227 standards and provides reliable alternating corrosion
tests in accordance with VDA Test 621-415 B with frosts (“VDA New”).
Walk-in salt spray chambers
Reproducible and accelerated corrosion tests that comply with relevant national and international standards.

Air pollutant test chamber
To test the resistance of technical products to corrosive gases.

Circulating air corrosion test system
The salt fog chamber with climate extension can be used for salt spray fog and condensed water tests, cycles with controlled climate and drying/ventilation and combined/alternating tests.

For more details on features, please consult our technical specifications. Feel free to get in touch.
Sunlight changes more than just your skin

That’s why Weiss Umwelttechnik developed special test chambers to simulate how global solar radiation affects the ageing process of the materials in your product.

Global solar radiation and other climate variables like temperature and changes in humidity accelerate the typical signs of ageing, e.g. loss of shine, changes in colour, cracking and brittleness. In addition to being visually unappealing, these issues also affect technical durability and must therefore be reduced to a minimum across the board.

We help you to find the right materials.

Global UV 200
The Global UV200 test system was developed in collaboration with the Federal Institute for Materials Research and Testing and makes it possible to realistically simulate outdoor exposure in a temperature range of -20 … +80 °C up to a relative humidity level of 95 %.

The test system emits wavelengths between 290 nm and 450 nm to test how sensitive materials react to light in accordance with the relevant regulations.
Solar simulation chambers
The units in the SUN EVENT range are cutting edge test systems for simulating outdoor and indoor conditions. Parameters like global radiation, temperature and moisture can all be programmed individually in freely configurable test cycles. The chamber of the units was designed to provide an economical alternative to large-scale sunlight simulation systems.
SIMPATI® makes testing easy
The software package for the perfect process

The software simulation package for test system integration. For smooth process management, documentation, integration and remote access.

Benefits of the software:
- Up to 99 installations can be networked together
- Programs for automatic processes
- Documentation, visualisation and management of process data
- Access via PC networks and Web browser
- Read-in of production data using bar code (option)
- Traceability of process data for watertight proof of quality
Service is our calling card
We are here for you 24 hours a day

Countless reasons to choose us - Weiss/Vötsch Service - we have a specialist in your area.

How our service benefits you:
• Central deployment
• Continuous training
• Service technician equipment
• Guaranteed supply of spare parts
• Available to be called in at any time
• Training programme for our customers
Test it. Heat it. Cool it.

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Furthermore, 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 and expertly guide you through your entire project, from planning to implementation.

Weiss Pharmatechnik, a subsidiary of Weiss Technik, is a competent provider of sophisticated clean-room and containment solutions. The product range includes barrier systems, laminar flow facilities, security work benches, isolators and double door systems. The company emerged from Weiss GWe and BDK Luft- und Reinraumtechnik and disposes of over 30 years of experience in clean-room technology.
Heat technology in the overtaking lane - fire up your processes.
Reliable heating technology for the high quality of your products

The production of motor vehicles and their components involve many production steps in which heat plays an important role. In the automotive industry in particular, it is all a matter of high-precision, reproducible processes and reliable documentation.

Heat technology The process for many materials and components

- Engines and power trains
- Interior
- Paintwork
- Bodywork
- Safety systems
- Braking system
- Glass/windows and mirrors
- Lighting
- Electronics
- Gearboxes
- Ball bearings
- Exhaust system
- Rims and tyres
- Fuel system
The requirement on us is to meet your requirements in the production of our heat management technical devices and installations.

Possible applications are:

- Thermo-fixation of plastic lines
- Vulcanisation of elastomers
- Solution annealing of light metals
- Curing of fibre composite materials and glued joints
- Annealing of metal parts
- Thermal testing

Your process has not been mentioned?
Have a word with us.

Significant advantages of Vötsch products:

- Uniform temperature distribution
- Reproducible processes
- Short process times
- 100% traceability
- Customer-specific
Controlled heat processes are essential when working with plastics. To fulfil the demands of high quality, we offer many solutions in this field.

Cross-linking of elastomers

When cross-linking elastomers, undesirable side-effects can often occur. These include the deposition of condensates on all parts exposed to the air, the development of strong smells and an increase in the fire risk from exothermic reactions.

Our solution:

• Increased air extraction to effectively extract process vapours and minimise condensation
• No escape of process vapours thanks to optimised sealing of the equipment and reduced pressure in the working space
• Process reliability through constant monitoring and documentation of the temperature distribution and the interior pressure
• Ease of cleaning and low maintenance requirements through, amongst other things, easily dismantled air ducts inside the oven
• Flexible loading and unloading with loading trolley

Application example:
Cross-linking of seals after injection moulding
Curing of fibre composite materials with hot air or microwaves

The most energy-efficient method for curing fibre composite components is microwave technology. Fast heating rates shorten the process times.

**Our solution:**
- The only modular microwave system in the world – customer-specifically configurable working space, even for large components
- Patented hexagonal cavity shape creates a uniform field distribution for high product quality
- Heating the bulk of the product permits energy-savings of up to 70% in comparison to conventional processes, since the oven remains cold
- Increased productivity through reduction of the process times by up to 45% in comparison to alternative processes

**Application example:** Energy-efficient curing and tempering of fibre composite components

For further information, request our Plastics brochure.
Thermo-fixation on a running production line

Thermoplastic hoses are brought cold into the desired shape, heated in a defined manner, and, after controlled cooling, retain the prescribed shape. The product quality often suffers due to uneven heating and cooling of the components.

Our solution:
• With a defined airflow, optimum flow over the product and good temperature uniformity are achieved
• Quick cooling takes place in an integral cooling zone
• Fully automatic system operation
• A feeder system optimised for the requirements of the product assures maximum productivity

Application examples:
Thermo-fixation of plastic hoses for the automotive industry
Heat for high-grade vehicle electrics

The automotive industry is one of the most innovative business areas with very high quality requirements, especially for electrical and electronic assemblies.

Drying, heat treatment or curing of potting compounds for protection of the electronic components from environmental influences are heat treatment processes that, where quantities are large, are frequently automated.

**Loading and unloading without heat loss**

When loading and unloading, frequent opening of the oven door can lead to heat loss. Furthermore, the uniformity of the temperature profiles will suffer.

**Our solution:**

- When the drawer is pulled open, a rear bulkhead minimises heat losses
- Temperature uniformity in the working space is only slightly influenced by the small opening of the drawer
- Partial automation and time control of the individual drawers is possible

**Application example:**

Curing of potting compounds, for example on electrical components, for protection from environmental influences.
Automated heat treatment
The automated production of electrical components requires the use of through-flow ovens.

Our solution:
• Various types of heating for quick heating and short through-flow times
• Flexibly configurable feed techniques for optimum handling
• Integrable cooling zones with product-specific cooling process for direct further processing

Application example:
Tempering of pressure regulators for motor vehicle engines in through-flow process.
• Optimum heat flow in independently controlled heating zones
• Cooling of the components in a cooling zone to 5°C above ambient temperature
• Feed technique with highest positioning accuracy for automatic component placement by robots

Curing of sealants in controller housings
ABS and air bag systems, engine management etc. must be protected from environmental influences. For this reason, the electrical module housing is sealed.

Our solution:
• Optimised heat transfer – in this case 2 heating zones
• Quick cooling in integral cooling zone
• Component placement and removal of the finished products with only one robot by means of a circular conveyor
• Precise component placement on the board by positioning unit

Application example:
Curing of silicone sealants on control modules for ABS systems.
In the smallest space
Heat treatment systems with vertical conveyors, such as paternoster systems or lifting basket, permit continuous heat treatment while taking up minimum space.

Our solution:
- Customised incorporation of the heat treatment system in a production line
- High process reliability with optical position detection

Application example:
Heat treatment of piezo actuators for injection systems
Application example:
Curing of potting compounds in pulse generators.

Minimum residual humidity
In the manufacture of energy stores for electric vehicles, vacuum dryers are used.

Our solution:
• No oxidation processes on the product thanks to extremely low residual acid content
• Economical heating possible using steam or hot water from other production processes as heating medium

Application example:
Drying of anodes and cathodes when making lithium ion accumulator for electric vehicles.
Glass – an essential material

Glass still remains an important material in the automotive industry. For the heat treatments required for processing, we provide numerous and efficient solutions.

Gluing in clean room

The curing of glued joints must take place under the cleanest possible production conditions. To achieve a high throughput, through-flow processing is used that can be integrated in existing automated lines.

Our solution:

- Installation in clean room
- Version with cooling zone possible

Application example:

Curing of glued joints on reflector disks
Tempering of laminated glass windows under vacuum

To make laminated windows, the inner and outer glass sheets must be perfectly matched in shape and glued together with no bubbles. This is done by warming in evacuated cloth bags.

Our solution:
• “Drive-through”, circulating air drying chamber with conveyor system
• Additional measures for connection to a vacuum system
• Good spatial temperature distribution

Application example:
Production of laminated glass windows such as windscreens
From a gearwheel to complete body

From the smallest screw to the complete body, our ovens provide ideal heating conditions up to 750°C.

Paint drying of complete bodies and components with infra-red.
Oxidation is a frequent undesirable effect when heat treating and annealing metals. Solution annealing of metals and preheating are applications that require high temperatures, stability and safety.

**Tempering processes up to 750°C, including in a protective gas atmosphere**

**Our solution:**
- Process temperatures up to 750°C
- Oxidation-free processing with protective gas atmosphere
- Cooling in protective gas atmosphere
- “Drive-under” construction for oven loading/unloading with lifting vehicles

**Application example:**
Heat treatment of catalysts

**Our solution:**
- Walk-in chamber for large components
- High spatial temperature uniformity, even at high process temperatures (up to 650°C)
- Linear cooling gradients possible
- Loading/unloading system to suit product and handling (loading/unloading with forklift truck or rail system)

**Application example:**
Solution annealing of aluminium pistons
Drying and annealing of bulk goods

The drying and annealing of bulk goods requires temperature processes, throughput and fast cooling of the components to ensure the quickest possible further processing in the next process step - all this on the smallest possible production space.

**Our solution:**
- Use of through-flow ovens, in stepped or continuous operation
- Quick heating and cooling of the product to optimise the oven size
- Freely programmable PLC for optimum integration in process control systems

**Application example:**
Drying and annealing of bulk goods such as sintered metal gearwheels

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**Tempering processes at high temperatures in ovens with large working space**

Even large components - such as the complete body - can be treated at high temperatures. The temperature uniformity and comprehensive process documentation play an ever increasingly important role.

**Our solution:**
- Chambers accessible with forklift truck
- Even in a large working space, high temperature uniformities of ±2 K can be achieved
- High heating and cooling performance for optimisation of process times

**Application example:**
Tempering of bodywork components such as doors, engine bonnets etc.
From research to quality assurance

How does a material or combination of materials behave under the influence of temperature? What effects can thermal ageing processes have on the component?

Various standardised tests (including CQI-9) are used in all life cycles of the vehicle. In research, specific solutions are required to simulate complex processes and reflect them reproducibly.

**Application example:**
Light construction concepts use various materials that are put together as hybrid structures. Different materials with differing thermal expansion coefficients can lead to tolerances being overstepped (formation of gaps).

**Our solution:**
- Heating oven for combination with optical measuring techniques
- Multi-sided, large window areas to capture expansion points under the influence of temperature
- Door leaves to cover the window areas permit disturbance-free measurement during the heating phase and with long dwell times and increase the energy-efficiency
- Reliable values through optimum, uniform temperature distribution during the measurement
- Reliable detection of the expansion measuring points with high-performance spotlights for shadow-free illumination of the interior

Our solutions for environmental simulation in the automotive field are to be found at: www.voetsch.de
Vötsch software package, SIMPATI* for the perfect process

Process control/documentation/networking/remote access

Benefits of the software:
• Up to 99 installations can be networked together
• Programs for automatic processes
• Documentation, visualisation and management of process data
• Access via PC networks and Web browser
• Read-in of production data using bar code (option)
• Traceability of process data for watertight proof of quality

More than heat

• Customised advice
• Project design and development
• Manufacture and installation
• Quality control
• Commissioning and training
• Documentation
• Service (calibration, maintenance, spare parts, recycling)
• Training and workshops
• CQI-9-compliant

Energy-efficient heat technology - we think of your production costs

We are measured by our service - we are there for you 24 hours a day.

Service-Hotline: +49 180 6566556