

Thermal and Climatic Altitude Test Chambers SkyEvent TA/TAH







www.weiss-technik.com

Check whatever you like.

From aeroplanes to helicopters - where research, development and quality control are concerned, you won't want to take any chances. We'll support you in that.

Perfection in performance, equipment and design.

Thermal and Climatic Altitude Test Chambers SkyEvent TA/TAH.



From the ground to the clouds and beyond.

Whether aeroplanes, helicopters or UAVs (unmanned aerial vehicles): modern aircraft are exposed to extreme stress during use. Our Thermal and Climatic Altitude Test Chambers SkyEvent TA/TAH allow you to simulate harsh environmental conditions and study their impact on the properties, function and lifespan of your products: vacuum and temperature are accurately controlled down to 150 mbar for high reproducibility and precise test results - 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 exactly that. The production models respond to the main aeronautical environmental test norms in both civil and military industries, fulfilling main parts of the standards RTCA DO-160G and MIL-STD-810G. For specific requirements, upgrade with many options. According to your needs.

Well thought out.

We know what matters for your tests: reliable, precise and reproducible results. That's why we design our test chambers in this unique way. Because incorrect results lead to incorrect conclusions. Considering this, we eliminate any disturbances while designing the systems relying on comprehensive know-how and years of experience.

Perfectly manufactured.

Just like your products, our chambers are made to resist the climatic conditions they produce, the outer casing is made out of corrosion resistant, galvanised steel sheets with an environmentally friendly coating and integrates only the best and proven components.

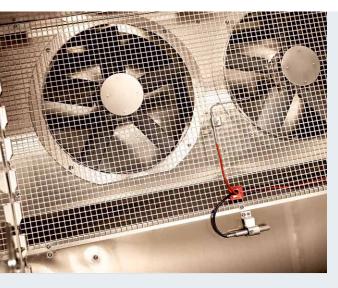
Absolutely low maintenance.

From smart machinery implantation to the use of smooth stainless steel surfaces and corners, we design chambers easy to maintain, with an optimised availability. An automatic reminder for maintenance interventions through our SPIRALE VS software will help you schedule your test campaigns.











Best equipment, best performance:

- Temperature controlled under high
- High temperature homogeneity
- Wide humidity range (TAH model)
- Low electrical and cooling water consumption
- Best equipped standard product

Our innovative Test Chambers are available as weisstechnik or vötschtechnik.

More, right from the start.

Basic equipment which sets standards.



• Safely into the future - using the new refrigerant

The new refrigerant R449A is used in all SkyEvent Test Chambers. The GWP value of just 1397 ensures safe usage even after 2020, and the refrigerant does not have to be replaced.



Go higher

Most jetliners fly at altitudes between 30,000 ft and 45,000 ft. SkyEvent allows not only to simulate this whole altitude range, but also to accurately control the temperature down to 150 mbar, corresponding to 45,000 ft.

• Easy to use, ready for testing

Swivel castors and height-adjustable feet make the chamber easy to integrate in your facilities. Simply install your product on the stainless steel shelf and you are ready to go.

• Check anytime

Light the chamber and watch your product through the built-in window - whenever you like to.

• Connect your product Thanks to two stainless steel portholes, with 50 or 80 mm diameter, you can instrument your products.



• Networking that matches

Test and diagnostics information are sent to the PC via Ethernet or can be saved on a USB stick. Monitoring is possible from any workplace computer.

Safety

• Protection for your tests, safety for you

The safety of your products and operators is our priority: we use general and dedicated safety switches for each element of machinery, and the low/high temperature safety is ensured by a software temperature limiter.



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



Thanks to greenmode[®], SkyEvent is one of the most energy-efficient devices in its class.

0 Our innovative Test Chambers are available as **weiss**technik or **vötsch**technik.





Tailor-made testing.

Optional equipment for individual solutions.



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Optimise your process by testing more products at once thanks to our additional shelves.

An extended temperature range to +180 °C makes sure your products work perfectly -

Additional dedicated vacuum-tight portholes (ISO-KF or ISO-K) and analogic recording channels (Pt 100, thermocouples etc.) plus auxiliary contacts give you a better view and

Independent adjustable temperature limiter (min./max.) in addition to the software

Impressive technology. Reliable results.

The performance data at a glance.

Type	Volume	Test space dimensions, W x D x H	External dimensions, W x D x H	TEMPERATURE	. Controlled from AP down to	Temperature range at AP	Cooling rate at AP	Heating rate at AP	Temperature stability at AP	Temperature homogeneity at AP ¹	VACUUM	Pressure range ²	Pumping time to 10 mbar	Pressure stability	HUMIDITY ³	Temperature range	Humidity range	Dewpoint range	Humidity stability	CONSUMPTION	Voltage⁴	Max. power	Max. cooling water ⁵
		mm	mm	-	mbar	°C	°C/mn	°C/mn	°C	°C		mbar	mn	mbar	-	°C	% RH	°C	% RH	-		kW	m³/h
TA 220 TAH 220	220	700x350x900	1250x2400x2400		150 mbar	-70 to +120	2	2	±0.5	±2		AP to 5	20	±3		- +10 to +95	- +15 to +95	- +5 to +80	- ±5			28 30	2.4
TA 500 TAH 500	500	700×800×900	1250x2400x2400		150 mbar	-70 to +120	2	2	±0.5	±2		AP to 5	20	±3		- +10 to +95	- +15 to +95	- +5 to +80	- ±5		3/N/PE AC, 400 V ± 3 %	28 30	2.4
TA 1000 TAH 1000	1000	1000×1000×1000	1550x2600x2400		150 mbar	-70 to +120	2	2	±0.5	±2		AP to 5	20	±3		- +10 to +95	- +15 to +95	- +5 to +80	- ±5		to ±10%, 50 Hz	50 52	4.0
TA 1500 TAH 1500	1500	1000x1500x1000	1550×3100×2400		150 mbar	-70 to +120	2	2	±0.5	±2		AP to 5	20	±3		- +10 to +95	- +15 to +95	- +5 to +80	- ±5			50 52	4.0

Performance data refer to +25 °C ambient temperature.

¹Free field measurement as per IEC 60068-3-5.

²Pressure range and pumping time in dry, clean and empty test space. ³Humidity at atmospheric pressure only. Use of demineralised or distilled water mandatory.

⁴Other voltages available upon request (option).

 $^{\rm s}{\rm At}$ a cooling water inlet temperature from +15 °C to +20 °C and a temperature difference of 5 K at the outlet.

We reserve the right to make any technical changes without prior notice.

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

Our innovative Test Chambers are available as **weiss**technik or **vötsch**technik.





Become more efficient.

You'll save time and money with our solutions.

Fly higher and go to the limits.

We'll back you up.

Get the most out of your test facility.



SPIRALE

Create your own perfect testing process with S!MPATI® and SPIRALE VS.

Process management/documentation/networking

- Powerful supervisor with user-friendly interface
- Touch screen panel
- Local and/or remote control and monitoring
- Documenting, visualising and managing process data





WEBSeason® available on request, replacing SPIRALE VS powerful interface.

Specific requirements? Special solutions!



• Altitude + humidity + temperature Icing test procedures? Our special Temperature Altitude Humidity Test Chambers can perform combined tests as per RTCA DO-160 Section 24



Cat B.

We measure ourselves by our service!

We have a specific customised solution! Contact us for further information on our tailor-made range of products.

• Protection for safety Hazardous battery testing? Our special Altitude Chambers can include safety features protecting both users and equipment.



 Rapid decompression Hundreds of millibars in a few seconds? We have specific solutions for you.

Our services - lots of good reasons:

- 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 **weiss**technik expert near you.

24/7 Service Helpline: +49 1805 666 556

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.

weisstechnik Test it. Heat it. Cool it.



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.



Heating Technology

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



Climate Technology, Air Dehumidification, Clean Rooms

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.



Clean Air and

Containment Systems

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 and sluice systems.





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