Thermal Vacuum Chambers - TVC

Our solutions, your test drive to space.

Test in outer space conditions—with your feet on solid ground.

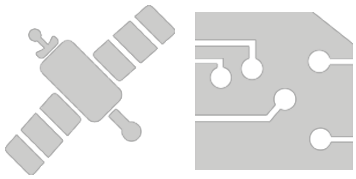
With more than 30 years of experience and collaboration with key players such as the European Space Agency, Weiss Technik has become a major supplier of environmental test benches for the space industry.

Weiss Technik Thermal Vacuum Chambers accurately reproduce outer space conditions and thus allow testing your equipment in a completely safe and controlled environment

TVC 700L (24.7ft³)
10^{-6} mbar | -50°C / +100°C | 3 °C/min
(141 kft)

TVC 20m³ (706ft³)
10^{-7} mbar | -135°C / +150°C | 2 °C/min
(142.6 kft)

TVC 240L (8.5ft³)
10^{-6} mbar | -65°C / +165°C | 2 °C/min
(141 kft)



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Global Partner for Environmental Test Chambers

Thermal Vacuum Chambers - TVC

Highest specifications *

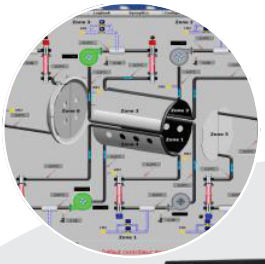
Volume: from 100L to 50m^3
Volume level: down to 10^{-7} mbar
Temperature range: -185°C to +165°C
Temperature change rate: up to 5°C/min
Temperature homogeneity: up to ±1°C
Temperature stability: up to ± 0,5°C

Optimized design, reliable equipment : from technical design to manufacturing, each step of your project is led by our team of experts located in our French plant

Maintenance-friendly : smart machinery implantation, integrated service interventions schedule, low maintenance components

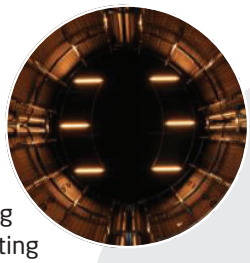
Worldwide service network : you can always find a Weiss Technik expert near you

Idependent thermal zones



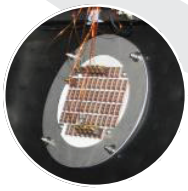
Secondary vacuum pumping system: turbomolecular or cryogenic pump

Cooling system: mechanical, liquid or gaseous nitrogen



IR ageing and heating

Special DUT safety by independent hardware control



Specific vacuum feedthroughs and connectors

Additional features

ISO 5 to ISO compatibility

ECSS compliance

Powerful supervision software: Spiral VS

- User-friendly, customized interface
- Data acquisition and post processing
- Manual or automatic cycles programming
- UUT control
- Remote control and alarms
- Drivers library for easy integration

** Maximal performance achieved. Feasibility to be studied for each project*