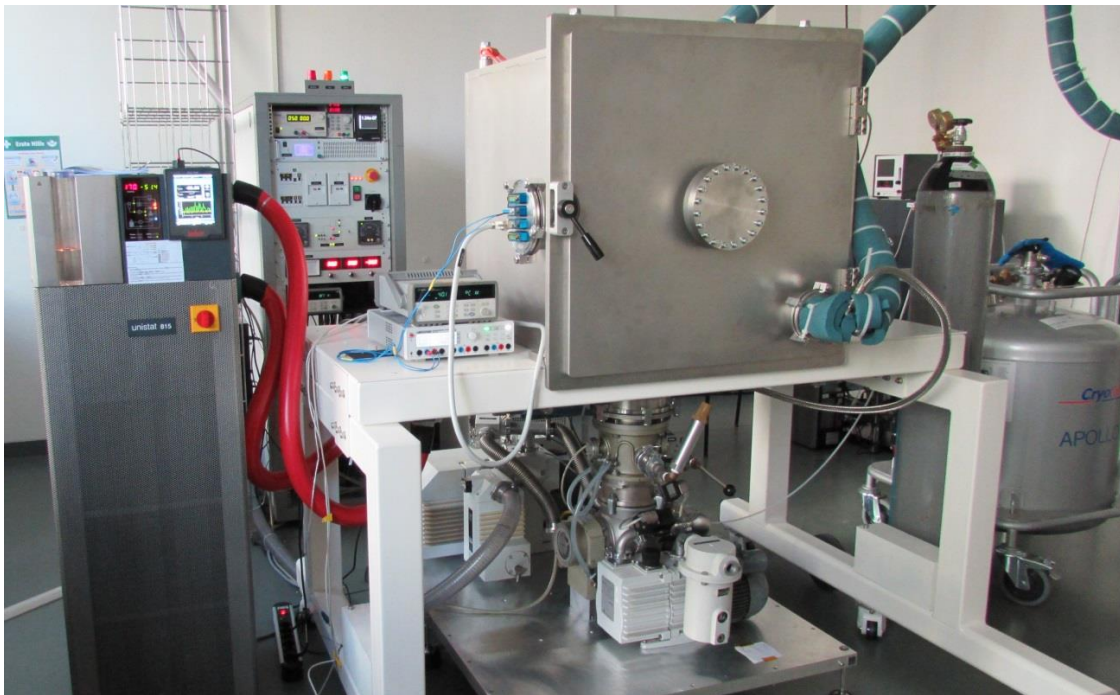


MTVAC Thermal Vacuum Chamber

A cost-effective Thermal High-vacuum Chamber for testing and qualification of satellites and space equipment, located at Azimut Space facilities in Berlin Adlershof.

- Thermal control via chiller and Liquid Nitrogen (selectable)
- Black coated shroud, with double cooling circuit
- Fully accessible aluminium cold plate
- Turbomolecular pump system for high-vacuum performance
- Automated control and logging system, for chamber and UUT

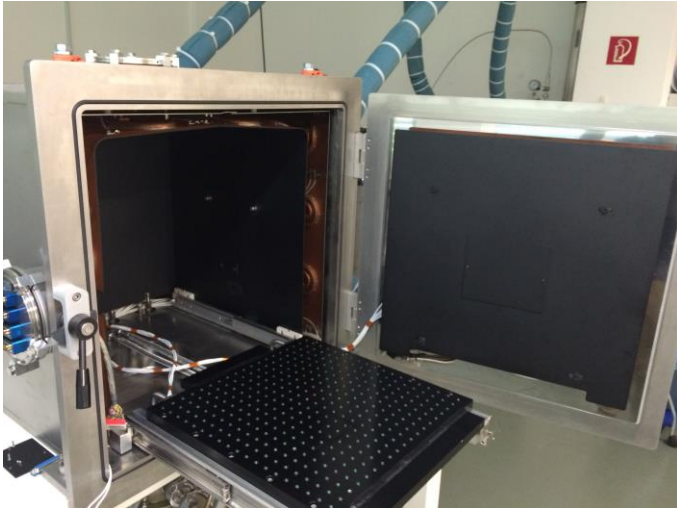


MTVAC Facility

Specifications:

Usable volume (inside Shroud):	500 x 500 x 500 [mm ³]
Vacuum level:	< 10E-6 mbar
Temperature range in chiller operation:	-70 to 150°C
Temperature range in LN2 operation:	-170°C to 200°C
Heating power (max):	6kW
Electrical feedthroughs available for user:	4 x 50 pin Sub-D; 4 x SMA (HF); others
Mechanical Interfaces:	6 x M8 internal hoisting points M6 hole pattern on Cold plate (25mm raster)
Additional Interfaces:	Cold finger feedthrough, secondary controlled cold plate. Flanges for windows, gas ports, cold finger ports, mechanical actuators and custom feedthroughs

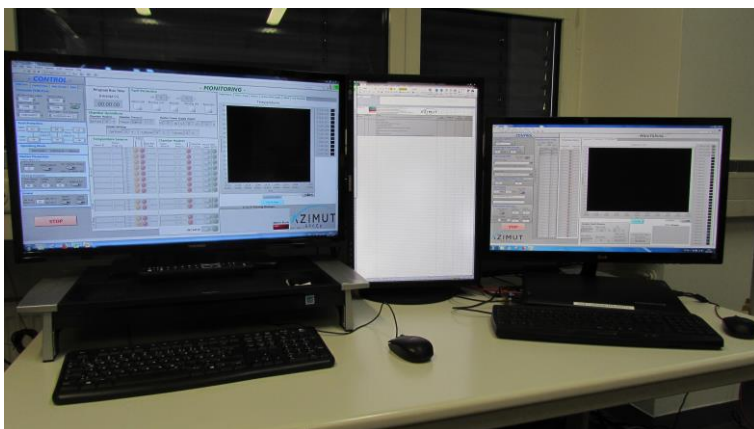
Ideally sized vacuum chamber for testing of Nano and Microsatellites



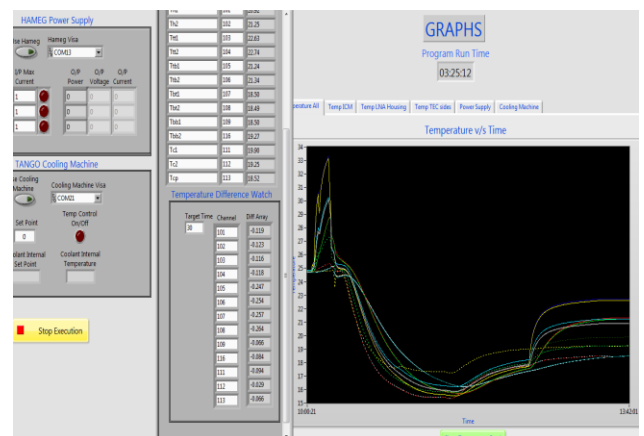
Fully accessible cold plate



4 x 50 pin Sub-D



Housekeeping, Control and Data Acquisition system



CUSTOMERS AND PARTNERS

ESA, DLR, Thales Alenia Space, AIRBUS D&S, OHB, TNO, Sonaca

THERMAL SOFTWARE

ESATAN-TMS, Thermal Desktop, StarCCM+, Thermica, Hyperworks, LabView

OTHER THERMAL FACILITIES

Thermal cycling chamber (0.30x0.39x0.25m³) for life cycling at cryogenic levels (-135, 135)°C
Vacuum Oven for bake-out

LOCATION

Azimut Space GmbH
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