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## ***Environmental Testing***

Thermal / Thermal Vacuum



***Thermal Vacuum Chamber***

***Temperature Chamber***

***TV Balancing***

***TV Cycling***

***IR Window***

***Temperature Tests***

***Temperature Cycling***

the temperature chamber and thermal vacuum chamber can test the performance and material properties of the test item under varying temperatures and pressures

- the thermal vacuum chamber is a high level technology developed by Astro- und Feinwerktechnik Adlershof GmbH
- we can perform thermal balancing, bake out and thermal-cycle-tests
- optical infrared measurements can also be performed through a window, which transmits wavelengths between 600 nm and 40  $\mu$ m

### **Temperaturschrank**

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- Maximaltemperatur: +180°C
- Minimaltemperatur: -70°C
- Kühlen: 8 K/min
- Heizen: 6 K/min
- Temperaturabweichung:  $\pm 0,3$  K
- Abmessungen:
  - Höhe: 500 mm
  - Breite: 500 mm
  - Tiefe: 400 mm
  - Prüfvolumen: 100 Liter

### **Temperature Chamber**

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- maximum temperature: +180 °C
- minimum temperature: -70°C
- cooling: 8 K/min
- heating: 6 K/min
- temperature deviation:  $\pm 0.3$  K
- dimensions:
  - height: 500 mm
  - width: 500 mm
  - depth: 400 mm
  - test volume: 100 litre

### **Thermal-Vakuum Kammer**

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- Maximaltemperatur: +150 °C
- Minimaltemperatur: -60 °C
- Vakuum im Rezipienten:  
 $p < 10^{-5}$  mbar
- Abmessungen:
  - Höhe: 220 mm
  - Breite: 240 mm
  - Tiefe: 530 mm
- Kupferbodenplatte zur Montage von Testobjekten,  
wahlweise mit Thermaltunnel

### **Thermal-Vacuum Chamber**

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- maximum temperature: +150 °C
- minimum temperature: -60 °C
- vakuum range in the chamber:  
 $p < 10^{-5}$  mbar
- dimensions:
  - height: 220 mm
  - width: 240 mm
  - depth: 530 mm
- copper plate to mount test items,  
optionally with thermal tunnel