

THERMAL VACUUM CHAMBER

TVC LARGE/ TVC MEDIUM



The Houwteq thermal test facilities include a large thermal vacuum chamber and a medium thermal vacuum chamber.

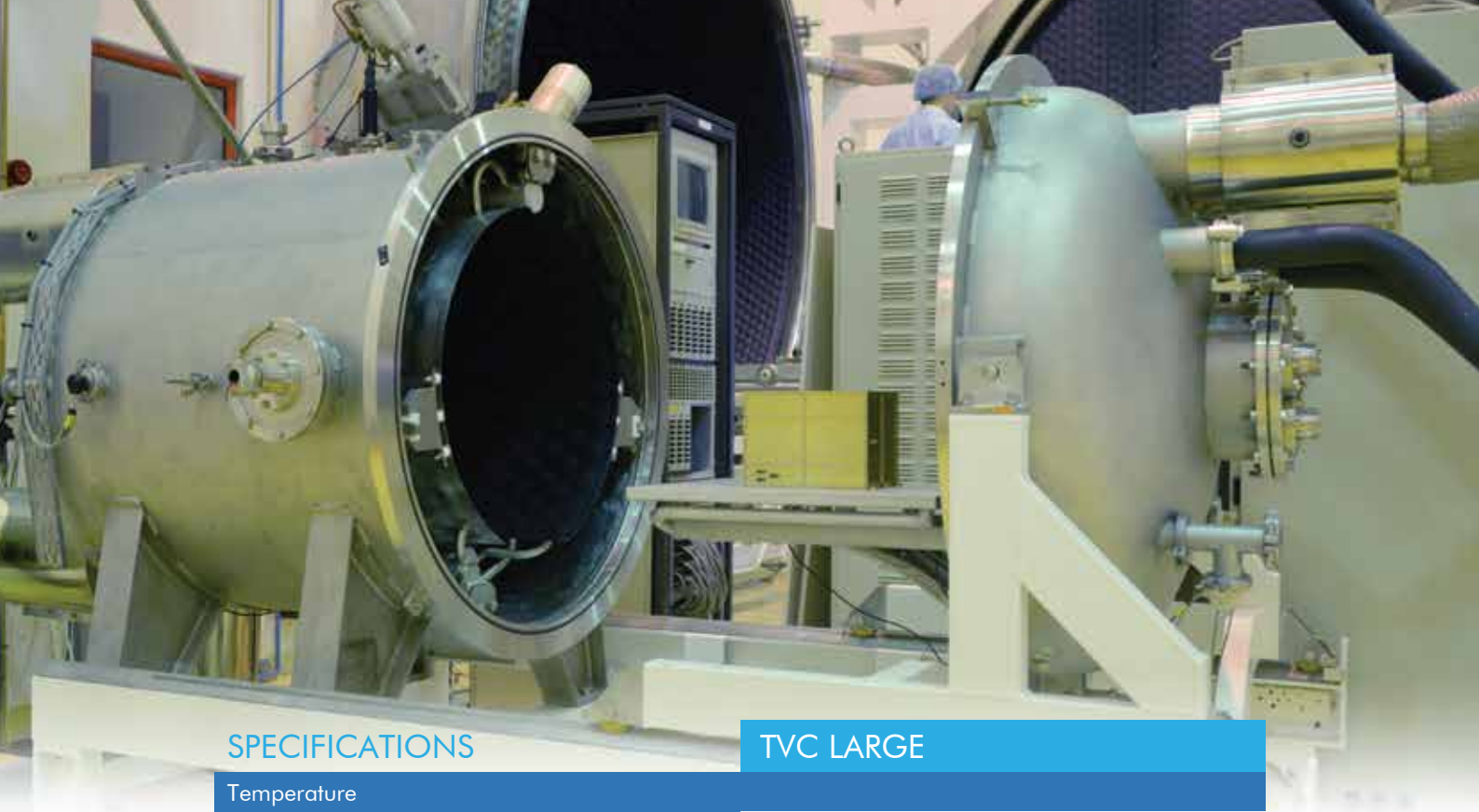
The **large thermal vacuum chamber** is ideally suited for thermal testing on satellite level. The satellite is mounted onto a trolley that rolls into the chamber. A thermal shroud and vacuum pump system is used to create a thermal environment similar to what the satellite will experience in space.

The **medium thermal vacuum chamber** is better suited for thermal testing on component level. The horizontal chamber contains a thermal shroud and thermal plate. This allows great flexibility in testing conditions thus ensuring that components can be tested at any thermal environment.

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SPECIFICATIONS

TVC LARGE

Temperature

Shroud Minimum Temperature	-150 °C
Shroud Maximum Temperature	120 °C
Shroud Temperature Rate of change	1.5 °C/min

Vacuum

Vacuum	1 x 10 ⁻⁶ mbar
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Dimensions

Diameter	3.4m
Length	3.8m

SPECIFICATIONS

TVC MEDIUM

Temperature

Shroud Minimum Temperature	-150 °C
Shroud Maximum Temperature	120 °C
Shroud Temperature Rate of change	1.5 °C/min

Vacuum

Vacuum	1 x 10 ⁻⁶ mbar
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Dimensions

Diameter	0.7m
Length	0.9m

Separately Controlled Thermal Plate

Plate Minimum Temperature	-70 °C
Plate Maximum Temperature	100 °C
Plate Temperature Rate of change	2 °C/min (Only from -60 °C to + 70 °C)