Climats
a schunk company

Expert in environmental simulation

Secondary vacuum chamber 10^{-5} mbar, 270 L / +100 °C
TVC - Space Simulator

AEROSPACE

Secondary vacuum chamber designed to meet, among other things, the specificities of suppliers of interconnection solutions for many sectors such as aeronautics, space, electronics, medical and research centers.

This equipment is dedicated to carrying out **degassing cycles** on sets and subsets of connections installed on satellites, including cables or wires of different types and natures, connectors and integrated systems.
These materials, by their properties, depending on their environment, are caused to “degas”. In this context, the secondary vacuum chamber accelerates and stabilizes this process. Degassing in an operational situation can have significant impact on the functioning of sensitive components. For example, the oxidation of a connector as a result of a polluting deposit on the connections can cause false contacts in a satellite.

The particularity of this **270 L** secondary vacuum chamber is its horizontal cylindrical test cabinet equipped with **two telescopic loading levels**, allowing easier access and placement of materials.
The two loading platforms are temperature-regulated and provide the product with heat transfer by conduction. The thermal well is composed of a "sky" also regulated in temperature, heat transfer and ensured by radiation.

This chamber benefits from the control of **Spirale VS** and its ability to control and track temperature and vacuum parameters, as well as the management of all automation and safety systems.

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Technical features:

Dimensions:

Volume : 270 L

Dimensions of the trays:

Width	Length
400 mm	1000 mm

Overall dimensions of the equipment:

Width	Length	Height
1150 mm	2150 mm	1750 mm

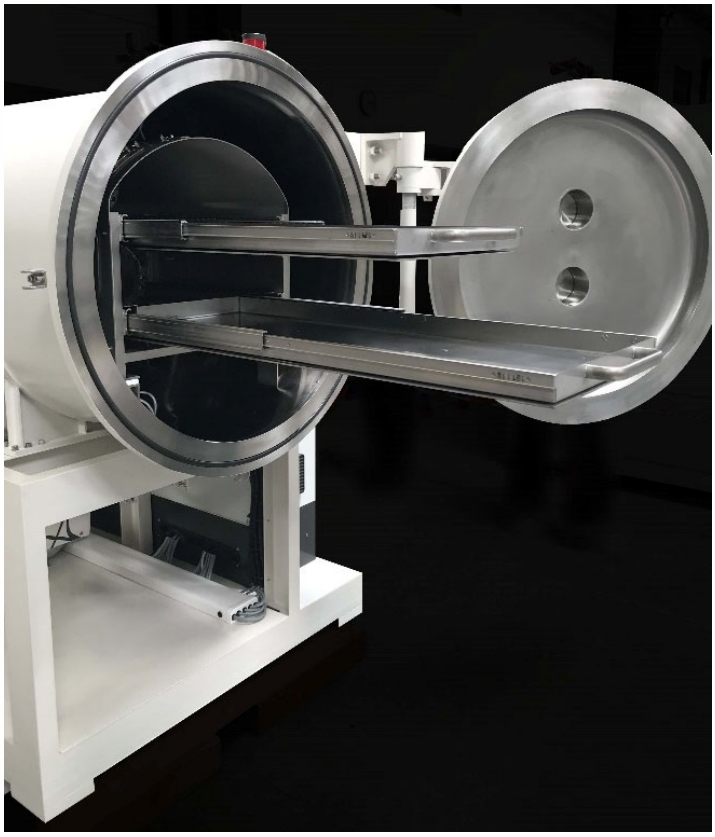
Performances:

- Temperature

  Temperature range: from ambient temperature to + 100°C
  Heating speed: 2°C/min average with a load of 5KG of cables
  Temperature stability: ± 1°C

- Vacuum

  Pressure range: atmospheric pressure at 10^{-5} mbar
  Pressure maintenance: 10^{-5} mbar (at + 100°C with load)
  Intermediate pressure: 10^{-4} mbar (at + 100°C with load)



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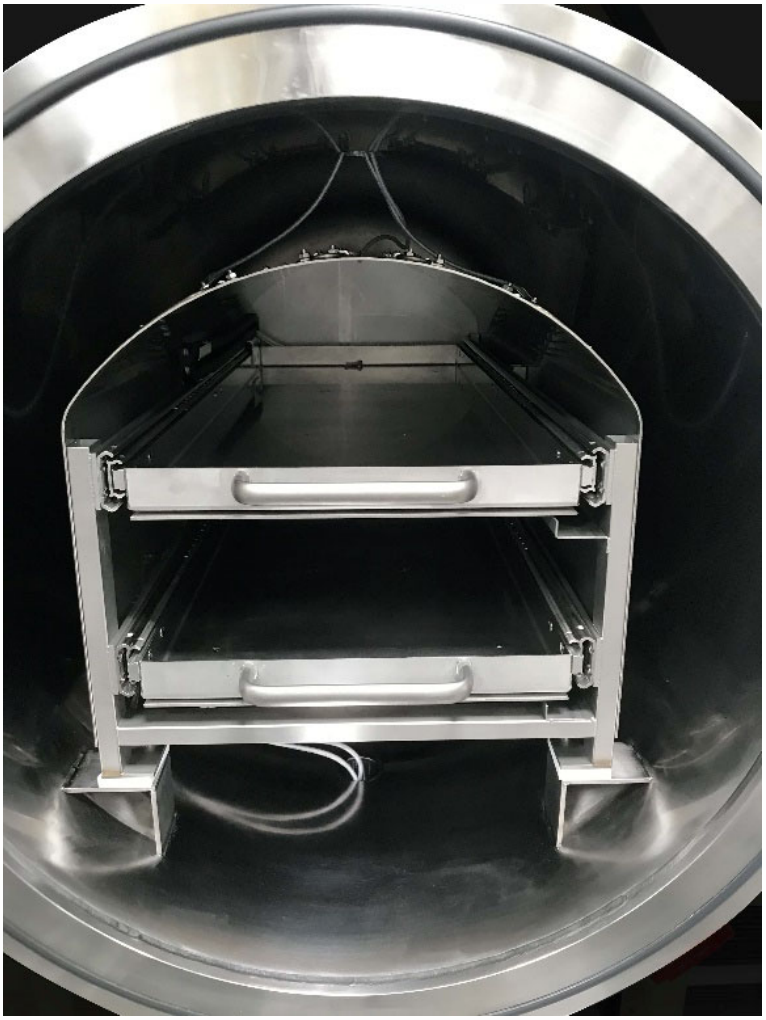
Specificities:

- 2 loading levels on telescopic rails
- 2 DN100 ISO K passages with blank flanges
- Safety pack
- Electrical cabinet and control of the chamber remote from the test cabinet
- A pumping system dedicated to vacuum (primary dry screw pump and secondary turbo molecular pump)



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