

Very high temperature thermal chamber & VRT !

Customized solution

Environmental chamber designed to meet the specificities of the petrochemical and/or applied electronics sectors, Research & Development laboratories, qualification and burn-in.

Mainly dedicated to the testing, characterization and qualification of components, electronic boards and electronic sub-assemblies, this equipment also makes it possible to carry out manufacturing process control. This is accelerated aging. Another objective with this type of environmental chamber is to carry out tests to reach the limit of operation of a specimen which may go as far as destruction if, for example, the qualification is reached.

Performance and ergonomics are two main benefits of this equipment, thanks to a useful volume of 400 liters combined with a small floor space.



The special feature of this enclosure is that it achieves extreme temperatures, and perform thermal cycling, in the **temperature range of -80°C to +265°C**. In addition, this equipment can reach a **speed cooling rate greater than 10°C/min linear from +200°C to -40°C**, with a load of 10kg of electronic boards positioned on a shelf. As a reminder, the linear speed corresponds to the instantaneous speed of the machine unlike the average speed which defines a duration.

This chamber benefits from Spirale Vision control and its quality of regulation. You can also be able to appreciate the recognized programming and archiving features of this control system. Spirale, already present in more than 6,000 environmental test chambers and test benches in the world, is the most intuitive and versatile human-machine interface on the market.

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Technical features

- ▶ Very high temperature thermal chamber and VRT
- ▶ Useful volume of 400 liters
- ▶ Temperature range from -80°C to +265°C with a linear speed cooling rate of 10°C/min from +200°C to -40°C with a 10kg load of electronic boards positioned on a shelf
- ▶ Open calibration table carried out at the factory on 8 temperature points according to the standard IEC 60068-3-5 (9 sensors)

| Dimensions (mm) | Width | Depth | Height |
|-----------------|-------|-------|--------|
| Useful | 660 | 800 | 750 |
| Overall | 1300 | 1800 | 2230 |

Options :

2 welded portholes Ø 100 mm high temperature +265°C



Air dryer

Dry air injection solenoid valve

Option package +265°C: Full door, high temperature passages, hot air extraction system with new air supply with motorized shutters, door opening safety with adjustable temperature range...

Possibility to deliver with the disassembled air extractor

Performances :

- ▶ Linear speed of 10°C/min, of +200°C to -40°C, with 10 kg load of electronic boards and shelves and without heat dissipation

Conditions of the test :

- 10kg of electronic board + shelves
- Without heat dissipation

Temperature range :

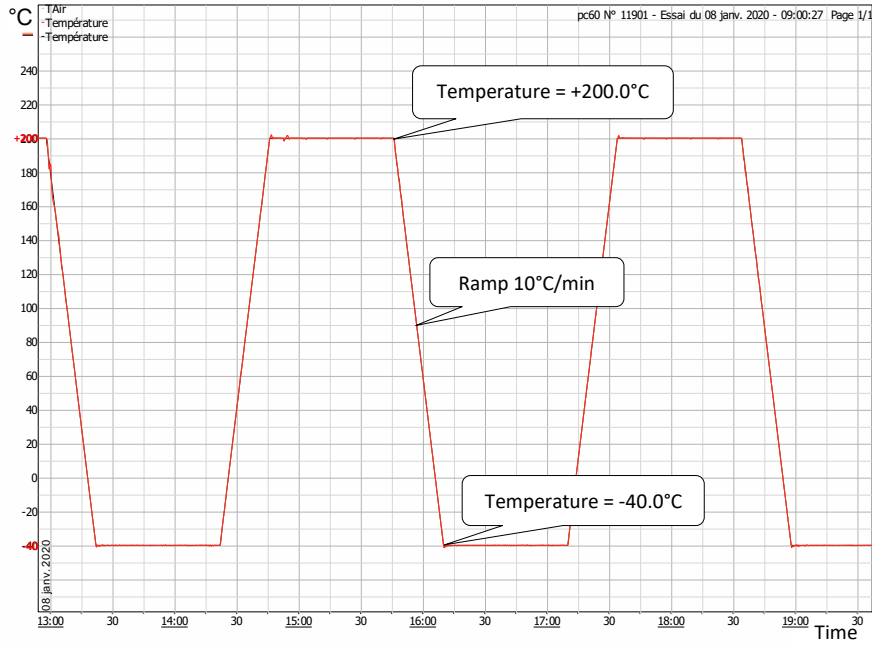
+200°C to -40°C

Results achieved :

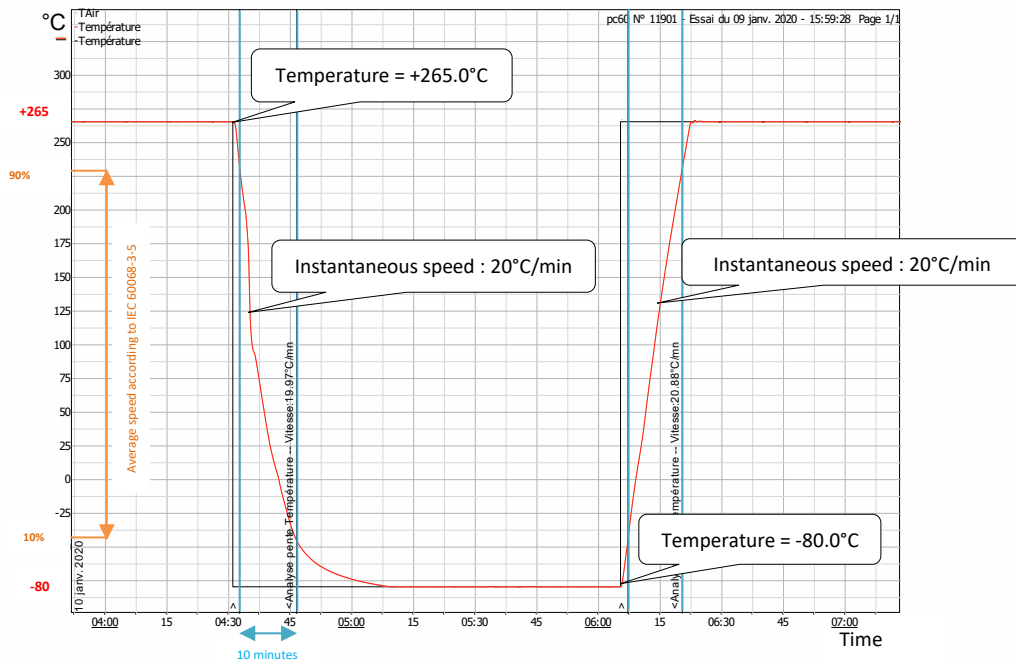
Linear point-to-point speed: +10°C/min up and down

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- ▶ Instantaneous speed of 20°C/min average, +265°C of -80°C and -80°C of +265°C, following the principles of IEC 60068-3-5



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