

CLIMATE-TEST CHAMBER



CEGELEC Défense Solutions & Services has a large-capacity climate chamber for testing and qualifying complete equipment sets.

- **CLIMATE CHAMBER**
- **RAIN TEST BENCH**
- **10-TONNE TRAVELLING GANTRY CRANE**

QUALIFICATION OF STRUCTURES AND MOBILE EQUIPMENT

This test facility, combined with expertise acquired on «Defence» projects, enables us to provide complex test solutions for large-scale equipment, including when the equipment is in operation and/or in the presence of operators.

CEGELEC Défense Solutions & Services reproduces the climate conditions of different regions around the world in its chamber, in order to check the performance and compliance of structures and mobile facilities, and to qualify them.



TECHNICAL DESCRIPTION

The dimensions of the climate chamber are as follows :

- Usable volume of 680m³, with a total volume of 840m³,
- Dimensions of usable surface area :
W 11.5m x D 13.5m x H 4.60m,
- Dimensions of access door: W 4m x H 4.20m,
- Maximum load on ground: 40 tonnes.

The operating ranges and performances of the climate chamber are as follows :

- Temperature from -40°C to +70°C,
- Relative humidity: from 10 to 100% depending on the temperature,
- Maximum heat load: 30kW at -25°C.

The climate chamber can reproduce climate conditions according to civil and military reference systems (STANAG, GAMEG-13, MIL STD, ISO, etc.), in order to carry out :

- Qualification tests (storage, start-up, operating, etc.) in the cold, dry heat or humid heat,
- Customised tests.

ASSOCIATED RESOURCES

To carry out its activities, Cegelec Défense Solutions & Services has an industrial construction workshop of about 5,000m², with 24/7 security service and surveillance system in accordance with the standards of the DRSD (French Defense Intelligence Directorate). The workshop is equipped with various lifting systems used to handle the customers' equipment when it arrives at and leaves the workshop.

Its equipment includes :

- A light forklift truck: 1.5 tonnes,
- A heavy-duty forklift: 10 tonnes,
- A travelling gantry crane: 10 tonnes.

CEGELEC Défense Solutions & Services also has a rain test bench with an adjustable output to carry out tests in real conditions.

- Usable area covered by sprinklers :
L 8.5m x W 7.2m x H 4.5m
- Adjustable output from 150mm/hour to 500mm/hour.



REFERENCES



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