

### Modular environmental chamber 31 m<sup>3</sup> for heat pump & water heater test

#### OUR PRODUCT LINES / RENEWABLE ENERGIES

Enclosure designed to meet the specifications of manufacturers and designers of thermodynamic solutions and renewable energies.

This equipment is dedicated to performing functional and standards tests, as part of the performance validation of thermodynamic solutions such as heating systems and sanitary production systems (**heat pump, water heater**). The main purpose of these tests is to ensure the behavior of the equipment under climatic conditions of temperature and humidity, and to qualify the performance of the system.



The choice of this equipment is characterized by **the speed with which climatic conditions are set up in temperature and humidity**, thus reducing the duration of the tests, but also **ensuring a very good stability of the climatic parameters**.

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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[www.climats-tec.com](http://www.climats-tec.com)

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## Technical features

### Caractéristiques :

- ▶ Modular environmental chamber
- ▶ Temperature range from -20 °C to + 50 °C
- ▶ Very large useful volume of 30 750 dm<sup>3</sup>
- ▶ Standards achieved:
  - For heat pumps:
    - NF-EN 14511
    - NF-EN 14825
  - For thermodynamic water heaters:
    - NF-EN 16147
- ▶ Temperature and humidity calibration performed according to standard IEC 60068-3-5 (9 sensors)

Dimensions (mm)	Width	Depth	Height
Useful	4100	2500	3000
Overall	4500	4100	4100

### Options :

#### LAYOUT

Additional passages, sheet metal fitting...

#### DEVELOPMENT

Acquisition system (PT100 card, CT or central acquisition unit), communication...

#### SERVITUDE

Demineralization system, water cooler ...



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▶ Performances :

- ▶ Temperature and humidity control on the following couples (PAC in operation) :

<b>Dry T°</b>	-10°C	-7°C	+2°C	+7°C	+12°C
<b>Humidity T°</b>	-11°C	-8°C	+1°C	+6°C	+11°C

- ▶ Cooling rate from +20°C to -15°C in less than 1-hour PAC at standstill
- ▶ Cooling capacity of 8 kW dissipation at -10°C in defrost mode
- ▶ Calorific power of 16 kW dissipation at -10°C in heating mode
- ▶ CAP airflow : approximately 7500 m<sup>3</sup>/h



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