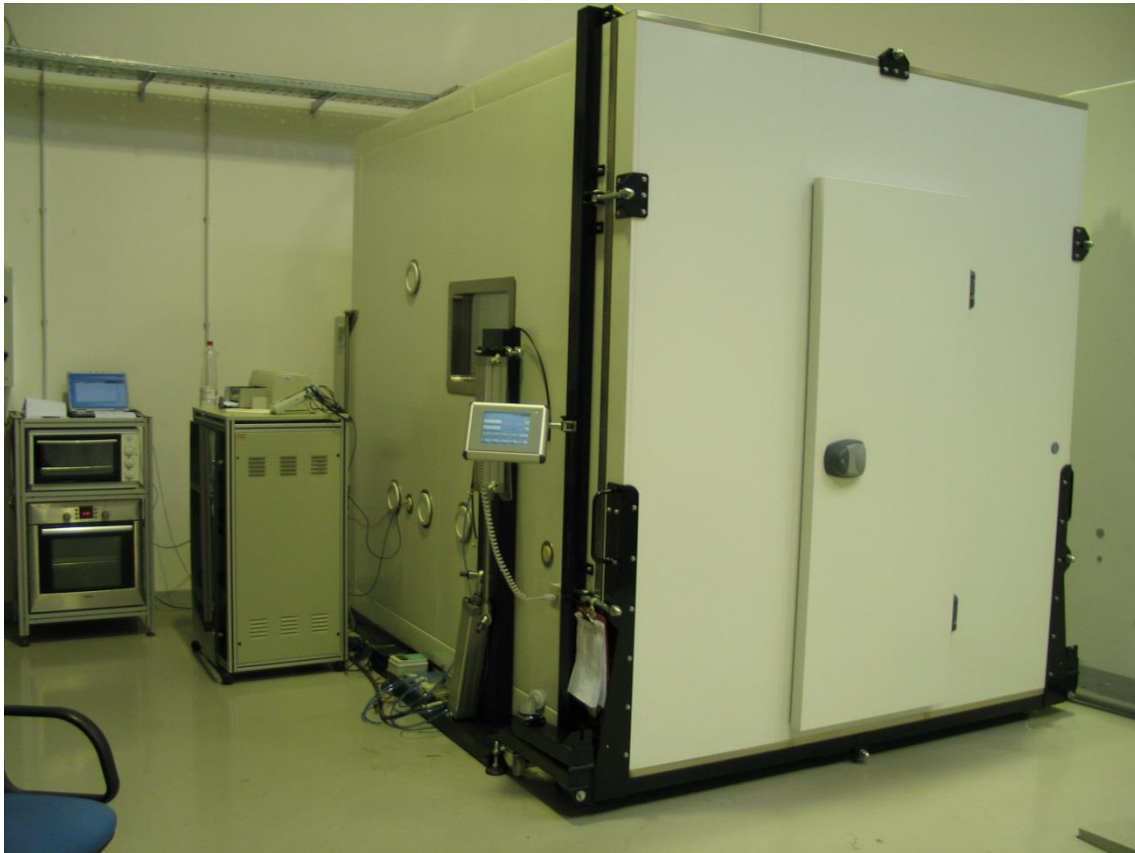


Walk-In chamber for performing temperature and climate testing



The purpose of the environment testing is to ascertain if a product can withstand the environmental influences which it will be exposed to e.g. temperature, humidity, light, vibration etc...

Laboratory test must verify this in a very short time; these tests must be accelerating and reproducible.

Modularity

The test chamber is made of prefabricated modules such as wall elements, door elements, air conditioning modules, temperature and climate conditioning equipments and control units.

These modules are combined to form a compatible unit. The advantages of this modular structure are:

- High flexibility in the layout and dimensioning of test chamber based on needs of the end user
- Individual production structure of the modules with accompanying quality monitoring



Applications

- Testing
- Stressing
- Storage
- Quality control
- Qualification
- High reliability thanks to technically innovative solutions

Monitoring

The cell (walk-in chamber) is equipped with a powerful communication system, which is operated by using a convenient touch screen with graphic animation. During operation the screen display shows current temperature and humidity which you can always set according to your test. In the communication system is available to store the programs and set the parameters manually or automatically.

Implementation

Body of the cells (walk-in chamber) are made of polyurethane panels 80mm thick, outer layer is made of sheet steel, powder-coated in RAL 9010. The bottom of the cell is made of polyurethane panel 80mm with ribbed aluminium foot plate. All internal parts are made of stainless steel.

- Single door, 900x200mm left/right opening
- Opening angle is 105°
- Door with heated window (option)

Heaters, air-cooled chiller, evaporators and moisturizing unit are mounted in the rear side of the cell away from the test area. For air circulation is mounted radial fan. Electrical power and control are installed in a separate cabinet installed at the site specified by the customer up to 1m from device.

In the cell wall there are two entry ports with diameter of 85mm for measuring, data and power cables.

The device is controlled, as well as temperature and humidity, by programmable controller. Regulation has PID control, temperature sensors are Pt100, measuring sensor for humidity is VIASALA with analog signal. There is also RS232C interface for communication.

The scope and implementation of optimal equipment is determined by the end customer.



Technical characteristics:

(physical dimensions on request of end user)

(temperature range on request of end user)

Temperature range:	-70° C do + 180°C
Temperature accuracy:	+ - 0.1°C
Temperature-time stability:	+ - 1.0°C
The average rate of heating:	0.5°C / min
The average range of cooling:	0.5°C / min
Workspace load::	20000 N
Klimatic range:	10°C - 95°C
Humidity range:	10% - 98% rel .humidity.
Humidity accuracy(dew point):	+ - 0.2°C (cca2%)
The rate of humidity and temperature After door opening	App. 1 hour
Humidity stability : (recovery time)	better than +- 5%

**Final product can be fully customizable to end-user requirements
for size, temperature range and humidifying!**