

WHY

Limited space, limited installed power, no highly complex climate chamber necessary

HOW

Separation of machine unit from the climate chamber, standardized parts

WHAT

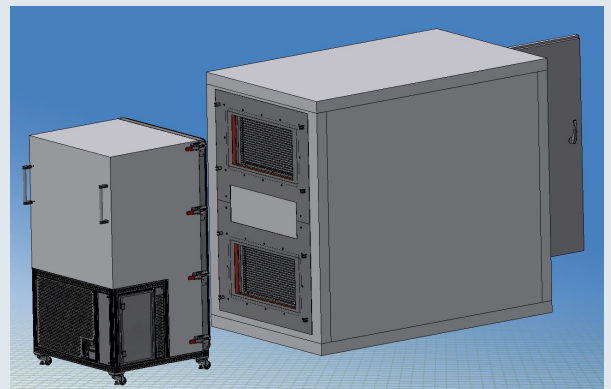
ClimeEvent M for chambers with a testspace of 6m³ to 50m³

WHY - The challenge.

The customer's test specimen is subjected to climatic tests with low airflow requirements. Or Material must be stored under constant climate conditions. A highly complex technical solution would be suitable for this, but a simpler chamber would meet the same requirements just as well.

Furthermore, the customer sometimes only has a limited connected load available, which is not sufficient for highly complex technical solutions.

The installation at the customer's site proves to be difficult due to the available space and lack of space.



HOW - The idea.

ClimeEvent M was designed as a quickly available alternative to highly complex systems. In it, products can be subjected to climate tests in a wide range of temperature and climate conditions.

Due to the simple design and usage of standard components, the installation is carried out in existing buildings within a very short time. Depending on the application, the power and media connections do not have to be changed. A 230 V socket is sufficient in many cases. To obtain the maximum power and best control accuracy, 400 V is required. The device has a very compact design so that it fits through common door openings and also in various passenger elevators. This can be checked in detail depending on the application. The cell can be ordered in various sizes from 6m³ to 50m³ and is assembled directly on site. The cell and the machine unit are separate modules, which means that one machine unit can be moved to different chambers and furthermore a higher redundancy can be achieved. Also several units can be connected to one chamber to increase the available cooling/heating capacity, humidifier capacity and the temperature change rate.



Case Study

weisstechnik and climatic tests with low airflow requirements

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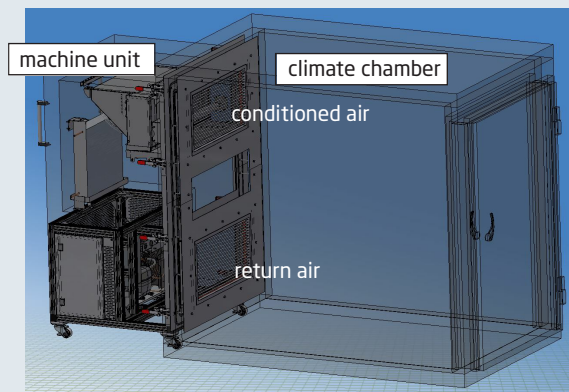
WHAT

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What - The solution.

System Highlights

- Easy installation of the machine unit
- 230 V socket sufficient in many cases
- Fast delivery time
- Low costs
- Large test spectrum possible
- Low operating costs



Selected product: ClimeEvent M for chambers with a testspace of 6m³ to 50m³

Technical Data

- Chamber size: 6 m³ - 50 m³
- Temperature range: -10 °C to 60 °C, Accuracy of +/- 1K
- Humidity range: 30 %r.H to 95 %r.H. Accuracy of +/- 5%
- Dew point range: 4 °C to 58 °C
- Max. cooling capacity: approx. 2,6 kW
- Max. heating capacity: approx. 2 kW
- Max. dehumidification capacity: approx. 1,5 kg/h
- Max. humidifier output: 2 kg/h
- Heating and cooling gradient: approx. 0,21 K/min for an empty 10 m³ chamber
- Cooling: initially air-cooled, later optionally also water-cooled
- humidifier water: City water usable, water tank optionally possible
- Condensate removal: via waste water on the building side, optionally via water tank