

ClimaTest

Climate chamber with wide-range and accurate environmental control to test the new generation of display cabinets, condensing units or heat pumps

Standards introduce challenging environmental control conditions to test refrigerated units such as display cabinets (NS-EN ISO 23953), compressor and condensing units (NS-EN 13771) or heat pumps (NS-EN 14511). In addition, manufacturers have ever growing requests about the range of test conditions for their newly-developed products. ClimaTest has been upgraded to combine these two requirements and offer potential customers accurate air control in a wide range of temperature, humidity, air velocity, etc.



UPGRADE



Technical specifications of ClimaTest:

- Dimensions L x W x H = 5.7 m x 4.5 m x 3 m.
Door dimensions 1.5 m x 2.5 m.
- Air temperature envelope between $-10\text{ }^{\circ}\text{C}$ and $+30\text{ }^{\circ}\text{C}$ (accuracy $\pm 0.5\text{ K}$).
- Relative humidity control between 30% and 80% (accuracy $\pm 2.5\%$).
- Cooling capacity up to 10 kW (@ $-10\text{ }^{\circ}\text{C}$) and heating capacity 9 kW.
- Hydrostat regulation of humidifier (capacity 5 kg/h) and dehumidifier (0.6 kg/h) units.
- Full instrumentation of environmental conditions.
- Possibility to connect display cabinets to a CO₂ central unit for testing (mass flow, temperature and pressure measurements in CO₂ supply and return lines).

Contact: Krzysztof Banasiak
Krzysztof.Banasiak@sintef.no



With funding from
The Research
Council of Norway

HighEFFLab 

 **SINTEF**
 **NTNU**