



How to anticipate the unpredictable?

Heavy machinery and equipment can be used in regions with extreme temperatures and ditto weather conditions. These machines might encounter a humidity level of 95% in hot areas, or icing in arctic environments.

When you are relying on heavy machinery and equipment in extreme weather conditions, how do you make sure everything will continue to function safely? Most machinery wouldn't last a day without failure or causing danger to the operator.

Because we can't change the weather, but we can learn how to anticipate on it, Sirris has built a large climate chamber. By simulating these extreme weather conditions, we can study and eventually predict the behaviour of heavy machinery and equipment. Our large climate chamber operates from +60 °C tot -60 °C and we can simulate the desert heat and the arctic cold amongst a wide range of weather conditions and temperatures.

Mechanical, hydraulic, electrical and electronic components and machinery weighing up to 150 tonnes or more can be tested, such as vehicles, transformers, gensets, shelters, drones, radar equipment, etc.



We can simulate solar heat up to 950 W/m^2 and our testing facility is equipped with infra-red thermal cameras and sensors to monitor the behaviour of the test objects. We test your equipment thoroughly, to provide you quality and reliability assurance or detailed insights into potentially hidden deficiencies when operating in extreme weather conditions.

Our large climate chamber is unique in Europe and is located in the Port of Antwerp. Specifically in the field of military machinery and equipment, we have experience in the following testing standards:

- AECTP 230
- MIL-STD-810G
- NATO STANAG
- DEF STAN 00-35



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