

***Problem: Refrigeration systems consume energy, money, and service hours***

In the United States, anywhere from 40-80% of a grocery store's total energy use is accounted to refrigeration, along with lighting. The simple fact is: Refrigeration equipment deteriorates over time, requiring expensive emergency maintenance calls and extensive service. Inefficiencies or failure in refrigeration equipment can result in significant financial loss and unwanted downtime. Concern about excessive CO2 emissions and carbon footprints are on the rise.

***ClimaCheck Offers Solutions:  
Tap potential for energy savings***

Refrigeration systems use more energy than intended due to operation over time, as well as errors in installation, use, and poor maintenance. The chilling process is complex and dynamic, and deteriorating efficiency or malfunction during any part of the cycle leads to increased energy consumption, unreliable output, and unexpected costs. ClimaCheck is revolutionizing refrigeration equipment analysis by making it affordable and easy to perform.

***Control operational performance***

ClimaCheck has developed the PA Pro Fixed Installation System, a unique expert system that uses real-time data to analyze the performance of refrigeration equipment, large or small. The PA Pro Fixed utilizes ten measuring points to produce a performance overview, and offers continuous monitoring. It can be integrated into any equipment without interfering with operations. Data is transferred to a server via Internet and can be analyzed from any location, in real time.

***Improve service performance***

Where refrigeration equipment is not suitable for continuous monitoring, or where continuous monitoring has not yet been implemented, service contractors and consultants can use ClimaCheck's PA Pro Portable System and software. In less than 30 minutes, our field equipment provides an unbiased detailed readout of system function that will result in improved commissioning, trouble-shooting, and service performance.

**Background**

Founded by Mr. Klas Berglof, CEO, an internationally recognized expert in cooling systems development and analysis. Member of ASHRAE in the USA, Institute of Refrigeration (IOR) in the UK, and International Institute of Refrigeration.

Head office in Stockholm, Sweden  
[www.climacheck.com](http://www.climacheck.com)

**Product status & results**

Several hundred systems delivered internationally since product patented in 1986. Awarded "Refrigeration Product of the Year" 2009 in the UK and "Climate Solver 2011" by the World Wildlife Fund.

ClimaCheck clients report substantial energy savings, usually citing a 10-40% reduction in electricity usage within a very short period of time, and without major capital investment. Our clients not only save money in the short-term, but are in long-term financial control of their energy expenses thanks to our early warning system, which generates automatic alerts in case of system changes and allows better-managed service.

**Competition**

BMS/SCADA\*\* systems, which don't monitor actual real-time performance of cooling processes.

**Investors**

ClimaCheck is privately held by its founders and independent investors.

\* U.S. Department of Energy  
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