

COOLCARE

COFELY REFRIGERATION HAS A LONG-DISTANCE RELATIONSHIP WITH YOUR CHILLER.

Remote monitoring, remote maintenance and Internet-based services.



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BUILDING SERVICES

ENERGY SERVICES

FACILITY SERVICES

REFRIGERATION

COFELY
GDF SUEZ

COOLCARE – REMOTE MONITORING FROM COFELY REFRIGERATION

Remote monitoring, remote maintenance and a range of Internet-based services covering every aspect of chillers and their system components for maximum reliability and cost optimisation.

COOLCARE SERVICE FROM COFELY REFRIGERATION

COOLCARE provides continuous monitoring of your chillers, refrigeration systems and their peripheral equipment –24 hours a day and 365 days a year. Cofely Refrigeration’s state-of-the-art data centre continuously collects and analyses the performance data of refrigeration systems.

In case of a failure or if certain test or efficiency parameters exceed specified limits, the system automatically notifies Cofely Refrigeration’s COOLCARE team. The team immediately connects with your chiller and can usually make an initial diagnosis within a few minutes. The advantage is the ability to react rapidly without travel expenses.

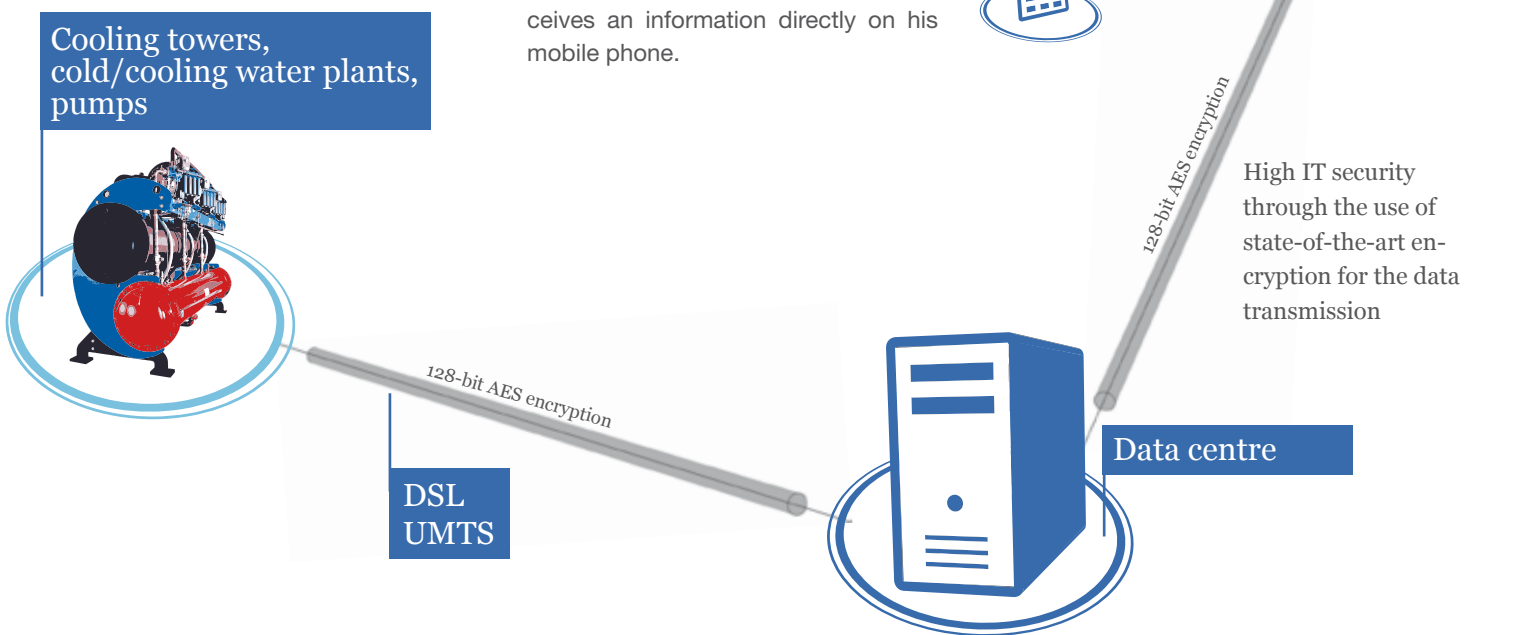
COMPETENCE TEAM FOR PROCESS MEASURING AND CONTROL TECHNOLOGY

Many chiller suppliers rely on external service providers for remote maintenance – but Cofely Refrigeration offers its own remote maintenance service. Our own instrument and control engineering department has many years of experience building the basis of the COOLCARE refrigeration system remote monitoring. As a customer, you benefit from two major advantages: shorter reaction times and lower costs.

RAPID INFORMATION AND COMPREHENSIVE ANALYSES

In case of failures, the COOLCARE remote monitoring system informs your employees via SMS or e-mail. The Cofely Refrigeration service technician responsible for your system receives an information directly on his mobile phone.

Moreover, the COOLCARE data connection provides many other additional advantages: data from the continuous monitoring system is transferred to an automatic data analysis program. Along with current status messages, it can also generate weekly, monthly



or annual reports. The customer can access to a comprehensive archive of operating data and status messages offering a high transparency and traceability.

ENERGY EFFICIENCY OPTIMISATION INCLUDED

The online capabilities include more than just failure monitoring. Continuous optimisation of the system's operating parameters allows to generate cooling in a more and more efficient way.

COOLCARE was for instance able to determine that a customer's heat exchanger was dirty, which resulted in an inefficient cooling production. The

customer was immediately informed and cleaned the heat exchanger on his own. This saved not only maintenance and travel expenses, but also time.

Another customer was able to use COOLCARE to optimise his system's energy efficiency by increasing the compressor speed. The COOLCARE team recommended this measurement to the customer after a periodic analysis of his performance data.

SYSTEM RELIABILITY FOR SPECIAL OCCASIONS

During the Ice Hockey World Championships, Cofely Refrigeration provided a special on-duty team for a stadium

operator. With a 24-hour monitoring system established especially for this event and a team of service technicians to provide around-the-clock coverage, cooling system reliability was ensured throughout the World Championship.

COOLCARE provides numerous advantages.

COST EFFICIENCY

- Significant savings due to reduced on-site maintenance and service interventions, avoidance of travel expenses
- Rapid response times, reduction or avoidance of machine downtimes
- Performance data analysis and optimisation of machine settings for the reduction of energy consumption (e.g. reduction of switching frequency, etc.)
- No costs for additional Internet connections

ECOLOGICAL BENEFITS

- Energy analysis of performance parameters and proactive optimisation recommendations

HIGH OPERATIONAL RELIABILITY

- Monitoring 365 days a year
- Trend recognition and predictive maintenance prevents system breakdowns

SAFETY, SPEED, RELIABILITY

- Daily connection checks
- Redundant alarm communication
- Individual alarm management
- Rapid response and transmission of failure messages via e-mail or to the mobile phone of the service technician and/or customer
- Preventive maintenance
- longer system lifecycle

HIGH TRANSPARENCY

- Regular reports and analyses
- Periodical reports (e.g. load profiles)
- Temperature, energy and alarm reports
- 24-hour online data presentation

CONVENIENCE

- Data download function
- Automatic data analysis and reporting to the customer
- Availability of a customer interface to monitor the machines (customer portal)

COFELY is Europe's leading brand for the efficient use of energy. We design the technology as well as supply and manage facilities, systems and processes so that all energy is optimally used – including the people with whom we work. By using our well-developed technical know-how, close contact with customers, over one-hundred years of tradition and the strength of the global GDF SUEZ Group, out of all these factors emerge total solutions where efficiency is standard.

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* 14 Cent/Minute from the German landline with differing prices according to the various mobile networks.
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