

Refrigeration management & Optimisation

 **eXpert-Fridge**[®]
refrigeration management & optimisation

Improving reliability and energy consumption in refrigeration systems



Improve refrigeration energy costs and life cycle costs. Reduce maintenance costs.

eXpert-Fridge[®] offers a holistic life cycle view of reliability and energy consumption in refrigeration systems, covering the energy conversion process at every stage of the complete refrigeration system. Through condition monitoring and optimising the cooling load profile, an improvement in plant reliability and maintenance will be realised.

The eXpert-Fridge[®] product consists of a central PLC, HMI and sensor array which calculates real time system COP, optimises condensing and evaporation temperatures and challenges/minimises end cooling loads. Further benefits can be gained through improved switch-off, isolation practice and sequencing of machines.



 **Cotopaxi**
energy & process optimisation



Cotopaxi offer a unique approach to implementing eXpert Fridge[®] in your premises from start to finish:

- An initial audit is conducted to map out the site where eXpert Fridge[®] is to be implemented
- We will engage with the site team and prioritise relevant actions as appropriate
- M&T strategy will be driven around the refrigeration plant
- Profiling of the cooling balance and load will occur
- Benchmarks against best practice will take place
- Potential new opportunities will be identified
- Final report will be prepared followed by a presentation to the site team of the new system

eXpert Fridge[®] offers a range of proven benefits for organisations:

- 5-30% energy cost reduction
- 30% improvement in plant reliability
- 5-7% downtime reduction
- More predictive maintenance
- Heat recovery scenarios identified
- Calculate and trend real-time COP
- Identifying inefficiencies in fridge systems

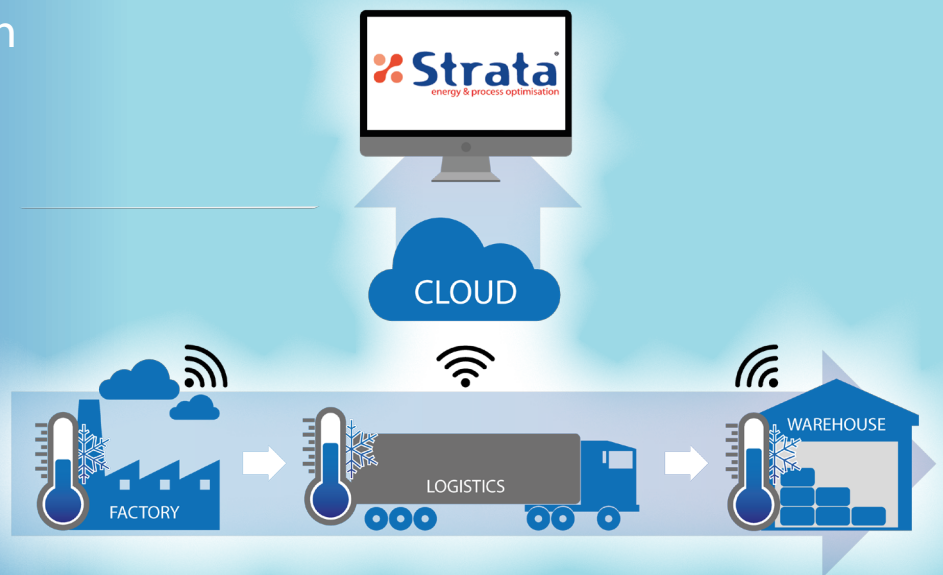
Cold Chain Logistic Solution

Monitor:

- Temperature (Product, Factory, Store)
- Vehicle Statistics
- Asset Performance (eXpert Fridge)
- Productivity

Benefits:

- Energy & Carbon Reduction
- Central Platform
- Supply Chain Quality Assurance
- Improved Maintenance Process



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