PHARMATECH SYSTEMS

Maastad hospital

CASE STUDY

"There is no comparison with traditional temperature monitoring devices... we do not only monitor temperature, but we also predetermine asset failure, this is valuable!"

After nearly a decade of servicing & maintaining the hospital refrigeration and cooling assets. Freezerdata the maintenance provider proposed a pilot project to streamline maintenance activities and ensure uptime across critical assets by introducing intelligent algorithms coupled the purpose built cloud based monitoring platform to predetermine operational anomalies of all cooling assets. Over several months the microbiology department in the hospital would install multiple devices on various critical fridges and freezers, this included the implementation of systems in other departments within the medical centre.

The hospital quality manager was on board with the proposal, when asked about what his desired outcome could be, he responded...

John Vriens - Senior Quality Manager

Here in the microbiology lab, we use cooling incubators and freezers, something unexpected can happen at any time! We store reagents in the cooling process which can deteriorate compromising quality.

FIND OUT MORE ABOUT FREEZERDATA

Learn more

Critical cooling systems

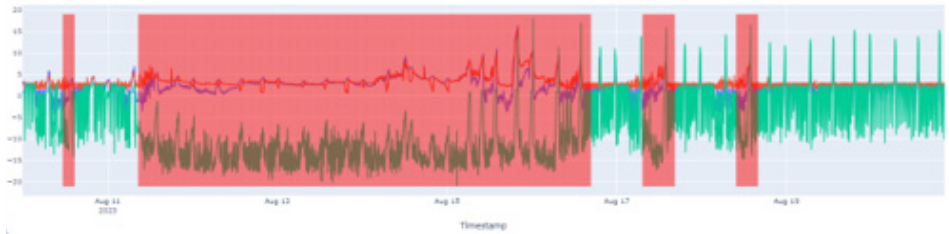
Patient samples are stored in the freezers. If thawed they can no longer be used for any follow-up research. The outcome could be a loss of vital research and time, impacting patient materials. These critical cooling and freezing systems for a hospital should have uninterrupted operation, especially as this is a critical process.

Maastad Hospital installed the first systems in 2001

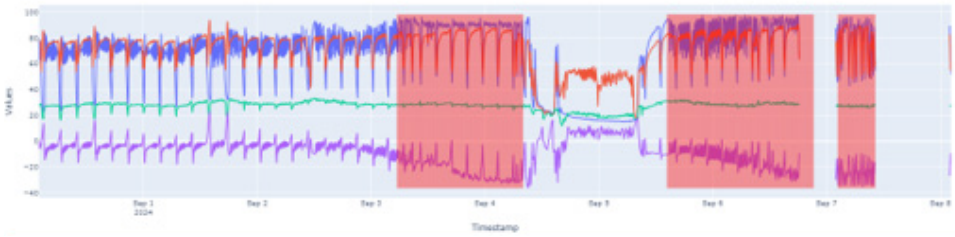
The solution

The success of the pilot led to the replacement of the hospitals existing temperature monitoring systems. The freezerdata systems are designed to look at many variables that surround the operation of the cooling and freezing assets & not just temperature. Implemented across all critical departments, microbiology, pathology & pharmacy. The freezerdata systems were installed to monitor over pressure, temperature and environmental conditions in aseptic spaces as well as considering the performance of fridges and freezers against normal operation. Over time it has been possible to create specific algorithms in accordance with the quality managers standard operating procedures for the various areas within the hospital. With the Freezerdata product installed the Masstadt hospital can predict in advance if the critical cooling & freezing assets are performing as intended.

"We were able to predetermine a frozen evaporator 7 days before the incident occurred. Allowing us to make other arrangements for the patient samples stored in these fridges."



Frozen evaporator detected



Anomaly detection 7 days befor