

ATEK[®]

MONITORING MADE SIMPLE



CASE STUDY

Securing ULT Freezers: How ATEK's Monitoring System Ensures Cold Chain Safety in a University Laboratory



CLIENT PROFILE

A university-based research laboratory specializing in molecular biology and biochemistry, with a focus on protein purification and crystallization. These activities involve the use of highly sensitive biological materials that must be stored in ultra-stable, tightly controlled environments to maintain research integrity.



ROLE INTERVIEWED

Lab Manager responsible for equipment oversight and environmental monitoring. Their duties include managing freezer performance, ensuring sample safety, and implementing preventive measures to mitigate temperature-related risks.

CONTEXT & CHALLENGES

Prior to adopting the ATEK system, the laboratory was experiencing critical reliability problems with its freezers and internal monitoring tools.

On one long weekend, a major incident occurred: the failure of a freezer resulted in the loss of almost \$50,000 worth of research equipment, representing several years of scientific effort.

Although a Building Automation System (BAS) was in place, it was unable to provide timely alerts. The laboratory therefore urgently needed a reliable, autonomous and proactive environmental monitoring solution to prevent such losses recurring.

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 **1-855-982-2835 x3**

 **sales@atek.io**



To meet these requirements, the university laboratory turned to ATEK for a detailed assessment and expert advice on the best solution, including the installation of precision sensors. Recognizing the major impact of product loss on researchers' work, ATEK activated its emergency protocol, enabling the installation of a complete monitoring solution in less than two weeks, to protect valuable scientific assets in a time-critical manner.

ATEK'S SOLUTION

01

Installation of temperature sensors for all -30°C and -80°C freezers

02

A cloud-based platform enabling real-time temperature monitoring and custom alerts in case of deviation

03

Tailored threshold configuration and secure remote access for researchers

04

Automated compliance reporting, eliminating manual data handling

05

Full service deployment, including installation, staff training and 24/7 bilingual technical support

“

ATEK has provided an essential layer of protection for our research materials. Real-time monitoring and proactive alerts allow us to manage our equipment effectively and avoid costly losses. The peace of mind this system provides is invaluable.”

— **Melissa Valente-Paterno, M.Sc.**

Laboratory technician
[Zeytuni Lab and Guo Lab]
McGill University - Department of
Anatomy and Cell Biology

RESULTS

01

No further loss of research materials since implementation

02

Teams are now able to act proactively at the first signs of system failure

03

The ATEK solution has become a daily source of peace of mind for research teams.

04

Clarity of operations with better access to alarms and recordings



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