

CASE STUDY



HOW REES SCIENTIFIC DELIVERS PEACE OF MIND AND PRECISION MONITORING FOR CELL THERAPY RESEARCH



CLIENT PROFILE

Client: Amnion Foundation

Location: Winston-Salem, North Carolina

Industry: Biotechnology, Cell Analysis, and Biobanking

Focus Areas: Regenerative Medicine, Cell Therapy Research, and Life Sciences Support

Departments Served: Cleanroom Operations, Clinical Manufacturing, Quality Control, Quality Assurance, and Facilities

Solutions Utilized:

- Rees Environmental Monitoring System (EMS)
- Cleanroom monitoring for temperature, humidity, particle counts, and differential pressure
- Controlled Temperature Unit (CTU) monitoring across cryogenic freezers, -80°C freezers, -20°C units, and refrigerators
- Cloud-based real-time data access and alarm notifications
- Preventative maintenance and calibration services

AMNION FOUNDATION

The Amnion Foundation is a non-profit 501(c)(3) organization based in Winston-Salem, NC, dedicated to advancing life sciences research through biotechnology, cell analysis, and biobanking. The foundation provides donor-matched human cells and tissues that support a wide range of research and therapeutic development efforts across academia, healthcare, and pharmaceutical industries. Their work helps accelerate progress in regenerative medicine and cell therapy by giving scientists access to high-quality, ethically sourced biological materials, including a placental-specific epithelial cell - cytotrophoblasts (CTBPRO2®), endothelial cells, immune cells, and stromal cells.

With such a critical role in supporting scientific discovery, Amnion's operations depend on maintaining precise, controlled environments where even minor fluctuations in temperature, humidity, or pressure can affect biobank integrity. To protect their work and ensure compliance, Amnion needed a monitoring partner capable of delivering real-time visibility, accuracy, and long-term data reliability.

FINDING THE RIGHT FIT

When Amnion began exploring monitoring solutions in 2016, they discovered Rees Scientific. Once the team saw what the system could do, the decision was easy.

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"We didn't even look at any competitors," said Anna Smith, Executive Director of Amnion Foundation. "Rees was exactly what we needed."

From the start, Rees Scientific took a hands-on approach to ensure Amnion's system was designed exactly for their needs. Our team performed a comprehensive walkthrough of the facility, taking the time to understand their operations, cleanroom requirements, and compliance priorities. We collaborated closely with Amnion to design a system that would support both their current work and future growth, covering everything from equipment placement and power needs to system integration and project coordination.

"That level of service isn't common in this industry," Anna shared. "It was clear Rees truly cared about getting it right."

THE SOLUTION: A ONE-STOP SYSTEM FOR ENVIRONMENTAL MONITORING

Today, Amnion uses the Rees system to monitor their cleanrooms by tracking temperature, humidity, particle counts, and differential pressure. They also rely on the system for their controlled temperature units, including cryogenic freezers, -80°C freezers, -20°C units, and refrigerators.

The facility operates a single node across its 3,000-square-foot space and has accumulated more than nine years of reliable data.

"Rees is number one in real-time monitoring. It's hands-off, easy to use, and the cloud has been life-changing," Anna said. "We know our data is safe, protected, and backed up."

With ReesCloud, alarms are automatically delivered, even in the middle of the night. The team can instantly access system data, review node event reports, and generate temperature traces or audit-ready reports within seconds.

THE RESULTS: TIME SAVED, CONFIDENCE GAINED

Amnion's team uses the system every day across multiple departments such as manufacturing, quality control, quality assurance, facilities, and even remote staff working in Tennessee and Buffalo, NY.

"We all wear multiple hats, and Rees saves us time. There's no manual work, no thinking involved. We just trust it," Anna said.

If a temperature fluctuation occurs, the Rees data provides clear evidence for investigations and equipment servicing. The system has also helped Amnion pass multiple audits with ease from various industry partners.

"Rees data is invaluable. It gives us peace of mind," Anna explained. "When we're audited, everything we need is right there in a report and our auditors love it." Rees' responsiveness has also made a strong impression:

"If there's ever an issue, someone is here the same day or the next. The technicians are well-trained and know our system inside and out."

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THE OUTCOME

Since implementing Rees, Amnion has eliminated manual temperature logs, reduced human error, and strengthened audit readiness. The team trusts the Rees readings completely.

“Without Rees, we’d spend countless manual hours recording data,” said Anna. “With it, we can focus on our work instead. The system is absolutely worth it.”

WHY IT WORKS

The Amnion Foundation’s success story highlights what Rees Scientific delivers best: reliable data, responsive service, and long-term trust.

“It’s not just the technology,” Anna said. “It’s the experience of being a Rees customer. You can tell they really care, and that makes all the difference.”