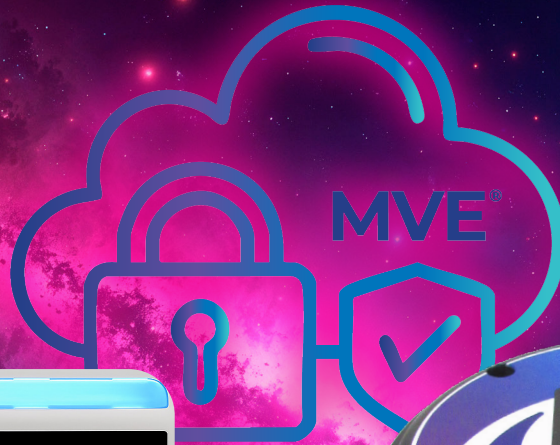




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844-MVE-CRYO



The MVE CryoVerse™ Ecosystem

The Digital Infrastructure for Cryogenic Intelligence

Control. Monitoring. Cloud Intelligence.
Trust History – Trust MVE

The CryoVerse™ Ecosystem

The MVE CryoVerse™ ecosystem integrates cryogenic hardware, control systems, monitoring technology, and cloud software to support the management of cryogenic storage environments.

Built on MVE's established engineering expertise in cryogenic systems, CryoVerse™ is designed to provide connected visibility, operational awareness, and consistent data access for laboratories, biobanks, IVF clinics, and cell and gene therapy facilities.

As biological materials increase in value and regulatory oversight continues to expand, cryogenic storage systems must support not only temperature control but also documentation,

monitoring, and operational transparency. CryoVerse™ addresses these needs by enabling connected system awareness from the freezer to the enterprise level. CryoVerse™ is structured around three integrated components that work together to support data collection, system visibility, and quality system alignment. Each component serves a defined role in supporting the protection and management of biological materials.

CryoVerse™ System Components



CryoVerse™ Connect Controller

On-device control interface for freezer operation, settings, and system status.



CryoVerse™ Monitor

Independent monitoring devices, powered by Tec4med™, that support environmental and operational tracking.



CryoVerse™ Cloud

Secure cloud platform for centralized data access, alerts, and reporting.

Together, these components support risk mitigation, documentation, and operational consistency across a range of storage environments.

CryoVerse™ Connect Controller

Control at the Freezer



The CryoVerse™ Connect Controller is the next generation of MVE freezer controllers. It builds on established controller functionality while introducing a modern user interface and expanded connectivity within the CryoVerse™ ecosystem.

The controller is designed to provide clear visibility into freezer status and operational conditions, while supporting controlled access and data logging consistent with laboratory quality systems.

Key Features

- Color touchscreen display with intuitive navigation
- Configurable alarms and setpoints for temperature, LN₂ level, and fill behavior
- Permissions-based user access management
- Event logging for operational review and documentation
- Real-time display of temperature, LN₂ level, system status, and power state
- Designed for integration with CryoVerse™ Monitor and CryoVerse™ Cloud

CryoVerse™ Monitor

Protect Your Investment.

CryoVerse™ Monitor devices, powered by Tec4med™, are MVE's proprietary integrated condition-monitoring platform and deliver early detection of irregularities in MVE dewars for stationary and shipping applications through predictive alerts. The platform offers monitoring options designed to match different operational needs, from on-demand data retrieval to live monitoring and cellular data transmission.

Working in tandem with CryoVerse™ Cloud, it provides 24/7 remote visibility, centralized analytics, and enterprise-level oversight for quality and operations teams. CryoVerse™ Monitor was created to allow easy upgrades as additional capabilities become available.



Key Features

- Independent monitoring of temperature and location, temperature, ambient temperature + RH%, shock, orientation, light exposure, and more.
- Configurable alerts via text, email, or software interfaces in the MVE Cloud
- Wireless sensor modules to support flexible deployment
- Battery-operated
- Time-stamped data logs to support audits and documentation
- Designed for integration with CryoVerse™ Cloud

CryoVerse™ Cloud

Centralized Data Access and Visibility

CryoVerse™ Cloud connects CryoVerse™-enabled devices to a secure, centralized digital platform, which provides data access, alert visibility, and reporting across individual sites or multiple locations.

CryoVerse™ Cloud is intended to support operational review, documentation, and fleet-level visibility rather than direct device control.



Key Features

- Centralized dashboards for connected assets
- Historical data access and trend visualization
- Automated reporting tools to support recordkeeping
- Role-based access controls for users and organizations
- Secure data transmission and storage architecture

The Ecosystem in Action

A Connected Platform for Cryogenic Operations

CryoVerse™ is designed as a scalable platform that supports both individual freezers and larger cryogenic storage operations. By combining on-device control, independent monitoring, and centralized data access, CryoVerse™ supports organizations seeking improved visibility, documentation, and operational consistency across cryogenic assets. CryoVerse™ is intended to complement existing laboratory workflows and quality systems by providing structured access to system data and operational information.



Transport & Distribution

- SmartTag provided 5G/4G / 2G
- Connectivity shares live temperature and location triangulation globally
- Near real-time alerts to mitigate sample loss during logistics events

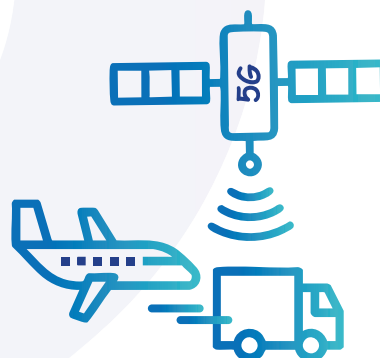


Data Management & Compliance

- CryoVerse™ Cloud stores all monitoring data
- Designed and validated to support implementation within a Part 11-compliant electronic records system
- Dashboards, reporting, and digital chain of custody simplify audits

Sample Storage

- CryoVerse™ Monitor monitors cryogenic temperatures inside the dewar or vapor shipper as well as ambient temperature conditions.
- Provides a permanent digital record



MVE's New HE Freezer

- Industry-leading LN₂ efficiency with consistent -190°C (±5°C) top-box temperature and high storage density in the same footprint
- Lower total cost of ownership through reduced LN₂ consumption and long-term reliability



Trust History – Trust MVE

MVE Biological Solutions develops cryogenic storage systems and supporting technologies for laboratories, biobanks, and clinical environments worldwide. MVE has been the trusted name for cryogenic biological storage and shipping vessels since 1963.

CryoVerse™ reflects MVE's continued focus on system reliability, data visibility, and operational support for cryogenic storage applications.

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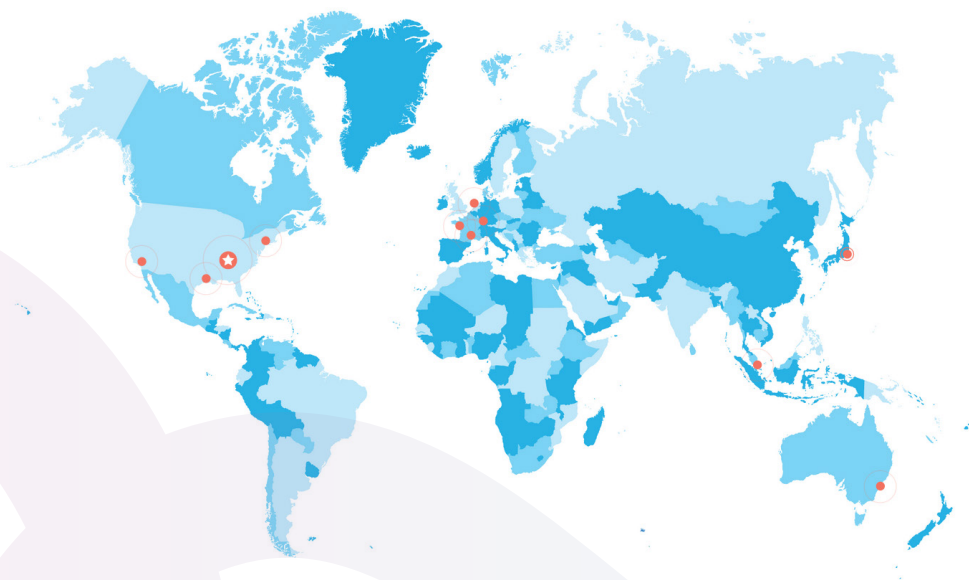
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Intended Use & Indication for Use of Cryogenic Storage and/or Transport LIFE SCIENCE INTENDED USE STATEMENT STORAGE ONLY

MVE freezers are intended for the indication of preserving human biological products, samples, and/or specimens (e.g., blood, blood products, cells, tissues, etc.) at cryogenic and ultracold temperatures during storage.

STORAGE AND TRANSPORT

MVE dewars and vapor shippers are intended for the indication of preserving human biological products, samples, or specimens (e.g., blood, blood products, cells, tissues, etc.) at cryogenic and ultracold temperatures during storage and/or transportation.



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