Haier Biomedical

December, 2021

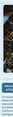
NEWSLETTER

HB ULT Freezers Installed At The Nakatahi Biodiversity Center

In a decision-maker based advancing global research, the Nakatahi Biodiversity Center in Japan has installed Haier Biomedical's ultra-low temperature freezers to preserve biological samples, bringing innovative technology to the Japanese biodiversity research community in a groundbreaking partnership.

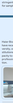
A Century of Development Partnership Between Haier and Nakatahi

Founded in 2020, the Nakatahi Biodiversity Center is a research institute dedicated to the preservation of biodiversity in Japan. The center's mission is to conserve and study the local organisms/species of Hibiki island, Japan, and to promote the sustainable use of biodiversity in the region. The Nakatahi Biodiversity Center is a joint venture between Beyond Next, the center's stakeholders and Haier Biomedical's Japan partner company. Beyond Next is a venture capital company that specializes in the life sciences industry. Haier Biomedical's Japan partner company is a joint venture between Haier Biomedical and Japan's Kitahiro scientific field biology gardens and Kitahiro Co., Ltd. Kitahiro Co., Ltd. is a Japan based company that specializes flexible biology gardens and research facilities.



Innovation Drives Protection and Preservation of Biodiversity

To ensure long-term, secure preservation of biological samples, the Nakatahi Biodiversity Center needed ultra-low temperature freezers capable of maintaining ultra-cold temperatures and providing long-term reliable performance. Haier Biomedical's ultra-low temperature freezers offered advanced cooling technology, precise temperature control, and robust reliability—key requirements for research facilities handling irreplaceable biological samples. The freezers' advanced cooling technology ensures stable temperatures even during frequent door-to-door access, minimizing temperature fluctuations that could compromise sample integrity.



High Performance Products Ensure Sample Integrity

Haier Biomedical's ultra-low temperature freezers feature multi-layer insulation, dual-circuit refrigeration, and intelligent temperature control systems, ensuring long-term stability and reliability. The freezers also feature an intuitive control panel and remote monitoring capabilities, allowing for real-time temperature monitoring and alarm notifications to prevent sample loss due to equipment failure.

HB Biological Safety Cabinets Installed At Sorbonne University

Haier Biomedical Biological Safety Cabinets are used in life sciences research, healthcare, pharmaceuticals, biotechnology, education, and other fields to provide a sterile environment for sensitive biological samples and processes.

In recent years, with the rapid development of life sciences and biotechnology, the demand for biological safety cabinets has grown significantly, with applications expanding into more diverse fields. Leading universities and research institutes worldwide are increasingly adopting these cabinets to ensure safety and precision in cutting-edge research. Sorbonne University, one of Europe's top research institutions, recently installed Haier Biomedical's biological safety cabinets in its laboratories, further enhancing their research capabilities and safety standards.

What underpins this achievement? Let's unpack the key factors:

1) Why is Haier Biomedical the Market's Preferred Choice? Technology Leadership and Customer Focus

According to Grand View Research, the global biological safety cabinet market is projected to reach $1.2 billion by 2025, with a CAGR of 6.8%. Haier Biomedical's BSC series, with their high-efficiency HEPA filtration systems and intelligent monitoring systems, have garnered high ratings for their stability and ease of use in international markets.

Liquid Nitrogen Containers

Vapor-Cross Series Cryoboks v2

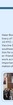
Vapor-Phase Series YDS / YYS JGK

The integrated 24-hour customer service system ensures rapid response to user needs, further solidifying customer trust.

2) Why Sorbonne University Chose Haier Biomedical? Technology Adaptation and Value Proposition

The unique advantages of Haier Biomedical's biological safety cabinets in this project can be attributed to their:

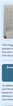
Cryogenic Vapor Series Cryoboks v2



Liquid Series YDD / YYD JGK

It is equipped with a multi-layered filtration system, including HEPA filters, which effectively filters out impurities and microbes, ensuring the purity of the internal environment. The cabinet's design also incorporates ergonomic principles, reducing operator fatigue during prolonged use and enhancing overall work efficiency.

Cryogenic Vapor Series Cryoboks v2



Cryogenic Vapor Series YDS / YYS JGK

The intelligent monitoring system allows real-time tracking of the cabinet's operational status, including airflow velocity, filter lifespan, and potential equipment failures. This system enables timely maintenance and prevents sudden equipment failures from affecting research progress.

Cryogenic Vapor Series YDD / YYD JGK

The cabinet's modular design facilitates easy installation and maintenance, minimizing downtime and ensuring continuous operation. The design also supports future upgrades and expansions, adapting to evolving research needs.

HB's LN2 Containers Rank First in China Market Share, H1 2025

In the 2025 H1 report from the Chinese Liquid Nitrogen Container sector, Haier Biomedical's LN2 Containers ranked first in market share, with strong performance across key metrics including sales volume, brand recognition, and customer satisfaction. This reflects the company's sustained R&D investment and its ongoing commitment to quality and innovation in the cryogenic storage sector.

Liquid Nitrogen Containers

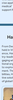
Vapor-Cross Series Cryoboks v2

Vapor-Phase Series YDS / YYS JGK

The integrated 24-hour customer service system ensures rapid response to user needs, further solidifying customer trust.

Equipped with an IoT module, temperature and liquid level sensors, the cabinet enables real-time monitoring of key parameters. Users can access data via a cloud platform, receiving alerts for abnormal conditions and accessing historical data for analysis, optimizing storage management and improving overall efficiency.

The insulation layer is manufactured using advanced vacuum insulation technology, ensuring long-term stable performance. This reduces energy loss while ensuring stable temperatures inside the cabinet.



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HB Helps Azerbaijan Usher In A New Era Of Vaccine Management

Haier Biomedical has recently completed an installation of its Vaccine Cold Chain Solutions in Azerbaijan, marking a major milestone in the country's healthcare modernization. Supplying the Ministry of Health with over 1,000 units of medical-grade refrigerators, freezers, and cold chain storage boxes, the project underscores the growing importance of reliable temperature-controlled storage in the region's healthcare infrastructure.

Conventional Vaccine Management Paper Records and Manual Monitoring Are Outdated

Until recently, Azerbaijan's vaccine management has relied on outdated paper records and manual temperature monitoring. These methods have long been insufficient to meet the rigorous demands of modern vaccine logistics, leaving the system vulnerable to temperature fluctuations and data inaccuracies.

Smart Infrastructure Networks Provide Reliable Temperature Control Solutions For Vaccines

To address these challenges, Haier Biomedical deployed a comprehensive cold chain solution tailored to Azerbaijan's healthcare infrastructure. The solution includes:

By integrating advanced ultra-low temperature freezers, medical-grade refrigerators, and smart cold chain monitoring systems, the solution ensures the safe storage and distribution of vaccines and other temperature-sensitive pharmaceuticals, significantly enhancing vaccine management efficiency and accuracy.

Haier Biomedical Advances Childhood Cancer Research In Australia

Haier Biomedical is delivering cutting-edge cryogenic storage solutions to the Children's Cancer Institute in Australia, supporting groundbreaking research into childhood cancers. Through technological innovation and strategic partnerships, Haier Biomedical is helping to accelerate research and improve outcomes for pediatric cancer patients.

Partnering with Haier's Leading Cryogenic Storage Solutions Provider

As an internationally recognized partner in medical research, the Children's Cancer Institute requires reliable cryogenic storage to support its research on childhood cancer biology, treatments, and preservation of reproductive tissue.

As part of this partnership, Haier Biomedical provided the Children's Cancer Institute with 12 ultra-low ULT freezers, providing critical support for the storage of biological samples and enhancing the institute's research capabilities and long-term preservation efforts.

Empowering Performance Reliability and Innovation in Research

The ultra-low temperature freezers provided by Haier Biomedical are specifically designed for cryogenic storage applications. Their advanced cooling technology ensures stable temperatures even during frequent door-to-door access, minimizing temperature fluctuations that could compromise sample integrity.

Haier Biomedical Takes Center Stage At KLIC 2025

From December 9th-12th, KLIC 2025 kicks off in Kuala Lumpur, Malaysia, bringing together leaders in healthcare and life sciences to explore cutting-edge innovations and collaborations. This year's event focuses on "Strategies for Global Expansion and Innovation in Life Sciences," with discussions spanning biotechnology, medical devices, and healthcare technology.

Deep Engagement in Building a Global Healthcare Ecosystem

Throughout the three days, Haier Biomedical's team engaged with industry leaders, discussing the future of healthcare and exploring emerging targets with representatives from pharmaceuticals, biotechnology, and medical device companies. The company showcased its latest innovations in cryogenic storage and management to European partners and explored potential collaborations in biobanking, regenerative medicine, and precision medicine. These interactions underscored the growing demand for advanced cryogenic solutions in supporting research and healthcare innovation globally.

Innovation Technology Optimizing Cryogenic Storage Solutions

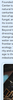
Leveraging Haier's cutting-edge cryogenic technology, Haier Biomedical showcased its latest innovations in ultra-low temperature freezers and cryogenic storage solutions, emphasizing their advantages in long-term stability, intelligent monitoring, and energy efficiency. These solutions provide reliable support for the preservation of biological samples in research institutions and healthcare facilities, ensuring the integrity of valuable biological resources.

Cryogenic Manufacturing Expansion Driven by Innovation

As Haier Biomedical's cryogenic business continues to expand, the company is accelerating its investment in R&D and production capacity to meet growing global demand. This strategic expansion aims to strengthen Haier Biomedical's position in the global cryogenic storage market and further enhance its technological capabilities.

HB UltraEco ULT Freezer Installed At Stanford University

Scientific research demands a stable and reliable environment for sensitive samples, and ultra-low temperature freezers are critical for preserving biological samples. These freezers maintain temperatures as low as -80°C, ensuring the integrity of valuable research materials. Haier Biomedical's UltraEco ULT freezer has been installed at Stanford University, where it will support the university's research initiatives.



This freezer is ideal for Stanford University's research needs, providing a stable environment for sensitive samples and the flexibility to accommodate various research projects.

Reliable Performance Protects Valuable Research

Research at the Stanford University School of Medicine spans a wide range of fields, including genetics, neuroscience, and cancer biology. The ultra-low temperature freezer provides a stable environment for these diverse research projects, ensuring the preservation of valuable samples and enabling researchers to focus on their research without concerns about sample degradation.

Supporting Scientific Research and Innovation at Stanford University

The ultra-low temperature freezer provided by Haier Biomedical will support a wide range of research initiatives at Stanford University. The freezer will be used to preserve samples for research in areas such as genetics, neuroscience, and cancer biology. The flexibility of the freezer will allow Stanford University researchers to adapt to changing research needs and explore new avenues of scientific inquiry.

Haier Biomedical Autoclaves Speeds Medical Safety In Mexico

Against a backdrop of increasing healthcare demand and tight supply chains, Haier Biomedical's medical-grade autoclaves are helping Mexican healthcare facilities improve sterilization efficiency and patient safety.

Recently, Haier Biomedical successfully completed the installation of its medical-grade autoclaves at a major healthcare facility in Mexico, marking a significant milestone in the company's expansion into the Mexican healthcare market. The autoclaves, known for their high-efficiency sterilization capabilities and long-term stability, are being rolled out to hospitals and clinics across the region, with the goal of improving sterilization efficiency and ensuring patient safety.

Rapid Response Meets Stringent Standards

The autoclaves installed in Mexico are designed to meet stringent healthcare standards, including Good Manufacturing Practices (GMP) and ISO standards, ensuring that they can effectively sterilize medical instruments and equipment while maintaining high levels of safety and reliability. The autoclaves are also equipped with advanced monitoring and control systems, allowing healthcare professionals to easily track and adjust sterilization parameters, ensuring that all medical instruments and equipment are sterilized to the highest standards.

Technology In Service of Life, Haier Biomedical Leads the Way in Sterilization

This smooth and efficient delivery is a testament to Haier Biomedical's strong R&D capabilities and its deep expertise in sterilization technology. The company's ability to quickly adapt its production and supply chain to meet the growing demand for sterilization equipment in Mexico is also a testament to its commitment to providing high-quality healthcare solutions and its ability to navigate the complexities of international supply chains and cross-border logistics.

Efficient Collaboration Ensures Global Accessibility

Targeting orders in bulk, the logistics team at Haier Biomedical has optimized the entire logistics process, from production to customs clearance and final delivery, to provide a seamless experience for customers worldwide.