

Happy 2023 New Year



Haier Biomedical's Liquid Nitrogen Containers Contribute to Gene Solutions Research

Gene Solutions is a well-known medical institution engaging in the research, development, and application of genome sequencing tests in Vietnam. Based in Ho Chi Minh, it has several branches in Hanoi, Bangkok, Manila, and Jakarta.



As of March 2022, Gene Solutions has performed more than 400,000 tests, including more than 350,000 tests for pregnant women, more than 30,000 preventive screenings, and more than 20,000 diagnoses for inpatient children, which has greatly enriched the local database of genetic information.

Based on genome testing projects, Gene Solutions helps people better understand their genetic backgrounds and access personalized health management consulting services through the gene solutions ecosystem. Comprised of four parts: pregnancy care, cancer liquid biopsy, genetic disease screening, and genetic disease detection, the gene solutions ecosystem contributes significantly to the development of life science.

Since 2017, the founding team of top scientists from Gene Solutions has been working on raising healthcare standards by leveraging next-generation sequencing because of extracellular DNA research, striving to help and improve people's life quality and prolonging life for the benefit of people in Vietnam and surrounding areas in Southeast Asia.

Haier Biomedical is really honored to become a partner of Gene Solutions and provide the institution with superior quality products. After a brief discussion, the two parties reached their first collaboration agreement, according to which Haier Biomedical supplied the Gene Solutions lab with YDS-65-216-FZ liquid nitrogen containers for secure storage of biological samples.

How YDS-65-216-Z is capable to obtain the good graces at first sight of the customer? Let's follow Dr. Bear to have a closer look at it.

Haier Biomedical
Intelligent Protection of Life Science

Dual monitoring respectively for temperature and liquid level

The temperature and liquid level are automatically monitored by a high-precision controller. Accurate and real-time information ensures sample safety.

Dual monitoring of temperature and liquid level separately

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Cloud data storage for traceability

The temperature and level data can be transmitted to Haier Biomedical IoT platform of storage. All data is traceable and stored permanently.

Cloud data for better traceability

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Double lock and double control design

The new double lock and double control design requires two people to open at the same time to ensure sample safety.

Double lock and double control design

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Colour identification for Rack handles

Rack handles are colour-coded for ease of separating storage zones and permanency.

Colour identification for Rack handles

Gene Solutions recently completed the installation of the liquid nitrogen containers in its lab with the help of the local partner. To bring the user a better product experience, the Haier Biomedical overseas after-sales team has conducted systematic training for the user and provided preventative maintenance services against the product operations and the possible problems during use. Haier Biomedical's professional after-sales service capability has won high recognition from the users, which further reinforces their trust in the brand and lays a solid foundation for future cooperation between the two parties.



With a clear focus to ensure the "Intelligent protection of life science", Haier Biomedical deepens its "product + service" model, expands product categories, and refines its global network layout continuously under the drive of science and technology to further increase the international market share.

How the LN2 Container Protects Umbilical Cord Blood

With the continuous improvement in medical technology, scientists have found that umbilical cord blood can be used for hematopoietic stem cell transplantation to treat more than 80 diseases because it contains hematopoietic stem cells that can rebuild the body's hematopoietic and immune systems. Therefore, more and more people are storing their umbilical cord blood, hoping to develop a health bank for their children and to make cures available for the possible future diseases.

As the only biobank in Argentina that can cryopreserve samples, PROTECTIA engages in the cryogenic storage of umbilical cord blood mainly in Argentina and Paraguay. The biobank delivers a secure and stable storage environment for the umbilical cord blood, PROTECTIA specially purchased YDD-850 liquid nitrogen containers from Haier Biomedical. Since the implementation of the products, and upon use, PROTECTIA spoke highly of the product.



As the featured product of Haier Biomedical's biobank solution, the YDD-850 liquid nitrogen container has solved a lot of sample storage problems for users. This product maximizes the storage capacity with minimal liquid nitrogen consumption to reduce overall operating costs. Over the years, it has been well received by foreign customers.



The Haier Biomedical YDD-850 liquid nitrogen container is designed mainly for vapor phase storage. Relying on the evaporation cooling of liquid nitrogen for sample storage, the product can prevent samples from coming in direct contact with the liquid nitrogen, thus avoiding the risk of sample contamination by bacteria mixed with liquid nitrogen. In addition, the YDD-850 liquid nitrogen container has also incorporated the advantages of liquid phase storage. Designed with advanced high-vacuum multi-layer insulation technology and advanced vacuum generation and retention technology, the YDD-850 liquid nitrogen container can maintain the temperature difference of the entire storage area not exceeding 10°C to ensure the storage safety and temperature uniformity while reducing the consumption of liquid nitrogen.

With an intelligent liquid level monitoring system, the Haier Biomedical YDD-850 liquid nitrogen container can monitor the inside environment accurately and in real time. In addition, the liquid nitrogen splash-proof function also provides a better guarantee for the working staff's safety during operations.

With a clear focus to ensure the "Intelligent protection of life science" and "Making life better", Haier Biomedical will continue to fulfill its corporate social responsibilities in the future under the drive of science and technology to lead the healthy and stable development of the biomedical industry.

Haier Biomedical Supports Scientific Research Institutions to Make Life Better

Haier Biomedical has been contributing through technology and innovation to major strategic scientific research projects around the world, and this has been achieved with industry-leading R&D and manufacturing advantages in the cryogenic refrigeration field. Haier Biomedical has worked with our global partners over several years to establish more than 3000 biobanks. Haier Biomedical's -150°C Cryo Freezer has raised widespread competitive concern from global customers since its launch earlier this year due to the products 100% hydrocarbon environmentally friendly technology and secure, stable, and efficient performance.

Ochre Bio, a company specializing in chronic liver disease treatment, recently installed Haier Biomedical's Cryo Freezer in their research facility in Oxford. This unit provides a secure, reliable and stable storage environment and multipurpose storage for various products within the laboratory, including critical liver samples.

Haier Biomedical's -150°C Cryo Freezer has received high recognition from Ochre Bio. "The Haier Biomedical Cryo Freezer makes storing and retrieving samples extremely safe and easy, as there is no need for liquid nitrogen. We like the touchscreen controller, which is easy to view and very simple to use; it provides historical records and has multiple alarms for added peace of mind, which makes our use of the unit more secure," explained Frankie Flintoft-Burt, the Project Manager. "The fact that the unit is energy-efficient is a bonus".

Ochre Bio was one of the first companies to install Haier Biomedical's independently developed -150°C cryogenic freezers. Based on the innovative hydrocarbon refrigeration technology, the product not only offers the lowest power consumption possible (saving energy by 30% around), but it is also safe, quiet (55dB), and suitable for laboratory use. It is a significant step toward reducing the carbon footprint of labs and storage facilities.

As samples are valuable, Ochre Bio needed to be confident that sample security would be maintained. The DW-150W209 unit has the Haier Biomedical intelligent touchscreen controller. Users can set alarms and display real-time operating information, historical data, user access, door openings and event records, saved for up to 10 years and downloaded through the USB interface for traceability and compliance.

As overseas businesses expand continuously, Haier Biomedical will continue to lead the development of the global IoT biotechnology industry by adhering to product innovation and advancing technology development, to promote Haier Biomedical's products to more users around the world to improve healthcare through the intelligent protection of life science to make life better for all.

