

YOUR PARTNER FOR REFRIGERATION & HEAT RECOVERY SOLUTIONS

Total Solution for Refrigeration

High Quality with 30 years

Ideal Eco-friendly Technology





CREATE THE FUTURE SAVE THE NATURE

We will consider the environment
along with the refrigeration solution.

THI is making its unrivaled presence felt on the Korean industrial refrigeration.
Beyond the sustainable future of our customers, we will be a company that
considers and realizes the goals of carbon neutral by 2050.

THI thinks about the environment
based on advanced technology!

We are with the future of our customers to realize carbon neutral by 2050.

Today, the world is facing a serious catastrophic crisis of climate change, and the use of natural refrigerants and energy conservation to overcome these issues are our immediate challenges. THI continues to research and develop refrigeration systems and high-efficiency heat pumps that use natural refrigerants. It's also THI's spirit of building a sustainable future for customers and achieving carbon neutral by 2050.

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+ SAVE THE NATURE +
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We are a total solution provider for the industrial refrigeration



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THI established in 1988, has grown into a refrigeration company specializing in providing total solutions to customers based on long-accumulated know-how. It also leads the refrigeration industry with cutting-edge technology and excellent quality, providing the best performance and trust to customers. We are not satisfied with these achievements and are striving to establish ourselves as a leading company in the market through continuous research and development and expansion of new

businesses. THI has its headquarters in Seoul, as well as a production plant and R&D center in Busan. From the production of refrigeration components such as compressors, condensers, evaporators, and pressure vessels, to sales of engineered refrigeration package units, and total system engineering, facility construction and service. We support customers to operate their refrigeration systems in the best condition by providing advanced value.





“From engineering to production!” THI provides the best refrigeration solution



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■ Engineering

THI provides accumulated technology and best solution in all sectors including but not limited to consulting as per individual specs of a customer, system engineering, selection and manufacturing of equipment, design/construction and operation/ maintenance of a plant. In addition, to realize this, our technical team is striving for continuous technological development to standardize products and designs, and is developing an efficient control system for monitoring and controlling refrigeration systems and energy saving. This step-by-step response fully reflects customer needs from the point of design, enables the application of the latest refrigeration technology, and ultimately enables stable system operation with minimal operating cost.

■ Production capacity

We produce various products from pressure vessels, heat exchangers, and standard chiller to engineered package according to customer specifications, and various packages are assembled at our factory and shipped to guarantee product performance. In addition, all products manufactured by THI comply with the quality regulations of ISO9001:2015 (ICR certification), and are produced according to the Design Code required by each customer such as KGS, ASME, and PED.





2020~

- 2020. 05 Busan R&D Center established
- 2020. 03 Expansion of 2 Factory in Busan

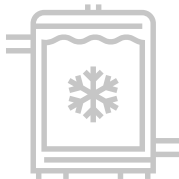
2001~2018

- 2018. 05 The facility acquired a certificate from RMRS
- 2011. 10 Build additional Busan 2 factory
- 2010. 10 Obtained electrical construction business license
- 2008. 03 ASME U-stamp certified
- 2003. 05 BS EN ISO 9001-2000 certified
- 2001. 12 Busan factory expansion and relocation

1988~1998

- 1998. 04 Obtained construction license in industrial refrigeration & Air conditioning
- 1997. 12 Factory & Branch were founded in Busan, Obtained manufacturing license for pressure vessels/Heat exchangers & Refrigerator under Korean high pressure gas regulations
- 1993. 04 Head office moved to Seoul
- 1988. 10 Exclusive distributor agreement with Sabroe Product for components
- 1988. 08 Established in Busan

“If you look at the path you’ve passed,
you’ll see the way you’ll”
We are a leader of the industrial
refrigeration



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THI is positioning itself as a leading group in the industrial refrigeration based on its expertise in general industry as well as facility design, manufacturing and construction required by plants.

The development from the initial establishment of the company to the present was a process made possible by our challenging spirit and the trust of our customers.



There is no limit to THI's business area

THI, which puts customers first and does its best to satisfy their needs, will be with your success.

**CREATE
THE FUTURE**





Food & Beverage

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We are growing by providing customized refrigeration solutions to leading companies.

Food & Beverage is the most important industrial field that ultimately directly affects people's health and life, which includes refrigeration for storage of raw materials, food processing from pre-treatment to post-treatment, storage of products, special air conditioning of processing space and distribution centers for distribution specialized refrigeration engineering is required in each field. By introducing and implementing technologies that are more advanced in response to these customer needs, we are receiving high praise from customers and participating in new businesses continuously.



- Food industry
 - Quick freezing, Food processing
 - Storage and Distribution
 - Air conditioning in the workplace



- Meat and Poultry
 - Quick Freezing and Precooling
 - Storage and distribution
 - Processing and Treatment plant



- Beverage and Breweries
 - Product cooling
 - Controlling the temperature of the fermentation process



- Dairy
 - Product cooling
 - Production of processed milk and cheese
 - Process cooling such as ice banks, chillers, etc.

- Cold Storage and Cold Distribution Centers
 - Freezing and refrigeration storage and ante rooms
 - Cold room for sorting and packaging

- Leisure
 - Ice Link & snowmaking / ice making

- Marine
 - Fishing and merchant ships

• Key Clients



Chemical



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We provide efficient and reliable process cooling and gas compression solutions.

As demand for petroleum, gas, petrochemical, chemical, pharmaceutical and related industries increases, the need for operational reliability, cost saving, safety and environmental protection is increasing. THI's chemical process systems include process cooling, tank/storage facility cooling, compressor packaging and natural gas processing. We offer a range of process cooling and gas compression solutions to meet the essential requirements of our customers' demanding processes, as well as comply with the most stringent safety and environmental standards, and provide efficient and reliable custom systems.



■ Refining and petrochemicals
Temperature control in refining and petrochemical processes are one of the important factors in reaching high efficiency in the conversion process. Distillation, crystal, or condensation is a task that requires removing heat, so a large-scale cooling plant is used in the process. Experienced THI engineers maximize driving efficiency and ensure product stability.



■ Pharmaceutical and raw material pharmaceutical facilities
All processes in pharmaceutical facilities must meet strict temperature conditions. In the production of biologics as well as semisynthetic and synthetic products, accurate process and climate control ensure the quality of pharmaceuticals.



■ Special Gas Applications
We supply the cooling system required for small and medium-sized plants for special purposes, such as CO2 liquefaction and special gas for semiconductor production, in the form of a complete package or installation on site.

■ Environmental Systems
As various industries develop, the function of pre-test for simulating climate change is required. In particular, system engineering for precise temperature response is an important factor for pre-environmental testing facilities in the electronics, automobile parts and finished vehicles, aircraft and equipment, and equipment industries. We have successfully carried out tasks by participating in environmental testing facility projects of leading domestic automakers several times.

• Key Clients



Service & Maintenance

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With a skilled engineer and high-quality team, it leads in service and maintenance.

By complying with the basic manual for equipment and operation of refrigeration facilities, we provide an efficient operation instruction based on reliability. In addition, our service team, as an engineer who is well trained and widely experienced in field for many years, implement various types of work ranges required by customers and shows excellent performance in the following specialized fields.



■ Plant Commissioning Service

The professional commissioning service is conducted in the Planning → Commissioning → Start-up → Performance Test course based on the commissioning know-how accumulated for many years and the technical competence of the expert engineering group, we provide a run commissioning service for the entire refrigerator to realize Flawless Start-up and provide successful performance.



■ Overhaul

Overhaul services involve the process of dismantling, cleaning, assembling, and testing compressors and other equipment. Most of them are done manually, so you need the experience and know-how of a high-skilled engineer. THI has a dedicated overhaul shop, and it is designed as a space that can work with various sizes of equipment more cleanly and precisely, and also considers the safety of workers.



■ Annual Maintenance

Annual maintenance is a more differentiated service that allows you to systematically manage facilities through regular visits and inspections by THI engineers rather than one-time maintenance. Set the service scope and inspection cycle required with each customer and visit the customer accordingly to conduct the inspection. The Checklist, which is written at each visit, enables preventive inspection of important equipment.



■ Control System Upgrade

Our technicians, including existing system replacement, redesign, and system transformation, provide optimized system upgrade solutions.

■ Spare part

For each part and consumable, the manufacturer recommends replacement time. Accordingly, regular inspection and replacement management are fundamental to extending the lifespan of equipment and maintaining normal operation. Our engineers support stable operation of the system through accurate diagnosis and operation for this purpose.

R&D



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Prepare for the future through continuous research and investment with the basic and principles.

Through the operation of the Busan R&D Center, we are expanding our investment in R&D, such as developing advanced technologies and technical cooperation with world-leading companies. We will play a leading role in the refrigeration industry in the 21st century through ceaseless R&D and challenges with preparing for the future and leap forward as a competitive technology company in the world beyond Korea.



We are constantly pursuing new technologies. Through R&D research, we are focusing on the domestic application of advanced technologies that are already being applied on a trial basis in developed countries. Devices tested with these prior technologies are already undergoing testing at our R&D center and are continuing to innovate in development and manufacturing methods.



The immediate research projects include the development of industrial and commercial CO2 refrigeration systems, NH3 Chiller, Oil Free Brine Chiller, and Heat Pump, etc. We expect that the development and introduction of these technologies will not only improve our technology level, but also increase demand in the domestic market. THI R&D Center will continue to be reborn as an advanced research institute that provides new value for the future through constant innovation and efforts.





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+ WE MAKE
+ THE FUTURE
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Going beyond a leader in Korean industrial refrigeration, we are moving forward as a partner in ESG management for our customers!

In today's world where climate change is seriously threatening the viability of the planet, business operations and activities have come to a point where they cannot avoid responsibility for the present and future of the planet.

Based on its expertise in the refrigeration business for many years, THI wants to become a company that participates in customers' ESG management. This is made possible by combining the ideas and engineering of refrigeration and refrigeration fields and heat recovery fields that consider the global environment. We ask for your encouragement for our steady growth. We will always challenge ourselves with an evolving image.



Your Partner For Refrigeration & Heat Recovery Solutions

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