



Tailored Cooling Solutions
for Critical Environments

● Company Overview

- **35+** years of expertise in high-performance, custom cooling solutions for industrial processes, data centres, and bespoke HVAC projects
- Products delivered in **45+** countries worldwide
- Multiple manufacturing facilities spanning **over 21,000 m² in Italy**
- **Structured engineering & rigorous standards** ensure reliable, on-time project delivery
- **100% engineered-to-order** - no catalogue constraints, fully tailored solutions
- Committed to **long-term partnerships** and supporting client success



Mission-critical Turbocor® chillers in stock.

Future Expansions

High Efficiency – systems optimised for high COP, part-load performance, and lifecycle energy savings

Sustainability – low GWP, natural refrigerants, environmentally conscious design

Reliability & Redundancy – engineered for continuous 24/7 operation with fault-tolerant systems

High Temperature Performance – chillers, heat pumps, and cooling systems for extreme industrial environments

Advanced Control & Monitoring – PLC/BMS integration and predictive maintenance

Modular & Scalable – flexible systems for future expansion, simplified maintenance, and rapid deployment



Engineered to Perform, Wherever You Are.

Compliant with International Regulations, delivering reliable performance in every condition.



Our products are designed to deliver **reliable, continuous performance** in any operating condition worldwide.

Engineered for **high efficiency, extreme conditions, and seamless system integration**, they meet the most demanding standards across industries and applications.

Our **extensive distributorship** supports the **selection, installation, and maintenance** of every system, ensuring **optimal performance** wherever your operations take you.

● Factory Acceptance Testing (FAT)

All our systems undergo **rigorous testing** in our **dedicated FAT area**, ensuring that each unit meets the highest standards of **performance, reliability, and safety** before leaving the factory.

Comprehensive tests cover all functional parameters, including cooling capacity, control logic, safety devices, and energy efficiency.

We offer **on-site or remote FAT**, according to customer requirements.

Every system is fully **compliant with international standards and project specifications**.

Our FAT process ensures that each unit arrives on-site **fully tested, calibrated, and ready for seamless integration**, minimizing commissioning time and potential issues.



● Selection Software

Our Selection Software streamlines the process of finding the cooling solution that best fits your requirements and location. Thanks to its user-friendly interface, this interactive tool allows you to visualize your custom-made chiller in real time and download a complete technical selection report and quote.

- **200 optional features** to choose from
- **Detailed technical datasheet** for each configuration
- **Price preview** included
- **Quick selection** based on a single criterion

Designed to save time and simplify decision-making, our tool ensures that your engineered-to-order solution is perfectly tailored to your needs.



● Climatic Chamber Testing

On request, all systems can undergo **rigorous testing** in **state-of-the-art environmental chambers**, ensuring optimal performance even under extreme conditions. Comprehensive tests simulate **high and low temperatures, acoustic testing, and verification of optional features** such as **fast restart**, assessing the **durability, efficiency, and reliability** of each unit.

All tests are conducted in compliance with **international standards and project specifications**, with the possibility of **customer witness testing**. This process ensures that every system is **fully validated and ready for operation** even in the most demanding environments.



• The Reliable Chiller Solution for Industrial Process

COOLING
HEATING



ENR/LGX/ENRF

Air Cooled

① ⑤

1,6kW ÷ 440kW



CSE

Air Cooled

①

30kW ÷ 377kW



CFT

Air Cooled

①

7,9kW ÷ 410kW



ENR-IR

Air Cooled

④

8kW ÷ 100kW



ENRC

Condenserless

①

7,4kW ÷ 375kW



HNR

Air Cooled

①

14kW ÷ 107kW
16kW ÷ 117kW

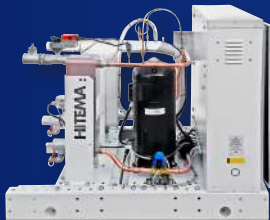


ENW

Water Cooled

①

3kW ÷ 400kW



CFTW

Water Cooled

①

50kW ÷ 371kW

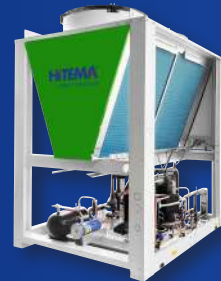


HFTW

Water Cooled

①

110kW ÷ 415kW
80kW ÷ 370kW



SBS-HP

Air Cooled

①

55kW-72kW-92kW
60kW-78kW-97kW

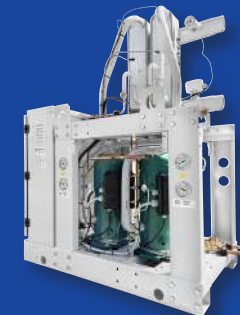


HFT

Air Cooled

①

15kW ÷ 326kW
16kW ÷ 345kW



CFTC

Condenserless

①

50kW ÷ 370kW



MTC

Evaporatorless

①

8kW ÷ 375kW

CUSTOMIZED FOR YOU with more than 100 options
available to customized your chillers

- ① R410A/R32/R454B
- ② R134A/R513A; R1234ZE/R515B
- ③ R290 ④ R449A ⑤ R454C



SBS / SBSF / SBSF-OPT

Air Cooled

①

94kW ÷ 1288kW



SBS-MC

Air Cooled

①

95kW ÷ 180kW

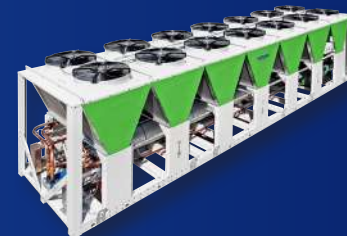


NOVA / NOVAF

Air Cooled

②

266kW ÷ 2136kW



DTS / DTSF / ISV / ISVF

Air Cooled

②

266kW ÷ 2136kW



EWB

Water Cooled

②

291kW ÷ 2240kW



CWB

Condenserless

②

291kW ÷ 2240kW



TFV/TFVF

Air Cooled

②

250kW ÷ 2500kW



TFW

Water Cooled

②

250kW ÷ 4000kW



APC®

Air Cooled

③

8kW ÷ 50kW



APH®

Air Cooled

③

55kW ÷ 350kW
60kW ÷ 360kW



HYD

Hydromodule

400L ÷ 10.000L

• Hitema International Advanced Thermal Management for Industrial Processes



Industrial processes require more than standard cooling. They demand precision, reliability, efficiency, and seamless integration into complex production systems. Hitema International delivers fully engineered, customizable industrial process chillers and advanced thermal management solutions, designed to ensure stable operation, energy efficiency, and operational resilience in demanding environments.

KEY FEATURES:

- **High-performance operation** under all process conditions, ensuring consistent thermal control
- Maximum reliability engineered for continuous, **24/7** operation in critical industrial applications
- **User-friendly design** for simplified operation, maintenance, and system integration
- **Energy-efficient solutions** to minimize operating costs and optimize total cost of ownership
- **Fully adaptable configurations** to meet complex, evolving, and custom process requirements

Hitema International Industrial Process Chillers and Thermal Management Solutions — engineered to meet today's production challenges while providing scalable, reliable, and efficient support for tomorrow's industrial innovations.

● Hitema International Advanced Thermal Management with Propane (R-290) Chillers and Heat Pumps

Industrial processes demand more than simple cooling or heating. They require precision, reliability, efficiency, and seamless integration into complex production systems. Hitema International delivers fully engineered, customizable propane (R-290) chillers and heat pumps, designed to meet the rigorous requirements of modern industrial applications while minimizing environmental impact.

KEY FEATURES:

- High-performance operation in all conditions, enabled by proprietary technologies — including our Revolutionary Defrost System (**Patent Pending**) — for optimized refrigeration and heat pump cycles.
- Maximum reliability engineered for continuous operation in demanding industrial environments
- **User-friendly design** enabling straightforward operation, maintenance, and integration with existing systems
- **Energy-efficient solutions** utilizing natural, ultra-low GWP refrigerants to reduce CO₂ emissions and environmental footprint
- **Compact**, all-in-one architecture with integrated pumps and optional thermal storage for simplified installation and optimized system efficiency
- **Fully adaptable design** for evolving and complex industrial processes, ensuring flexibility and scalability
- Engineered to address **today's production challenges** while providing readiness for future industrial innovations



Hitema International Propane (R-290) Chillers and Heat Pumps — engineered to deliver precise thermal management, operational resilience, and sustainable performance for modern industrial applications.

• Hitema International Advanced Thermal Management – Rental Fleet

Temporary cooling solutions require maximum flexibility, rapid deployment, and seamless system integration—without compromising performance, efficiency, or reliability. The Hitema International Rental Fleet is engineered to provide scalable, high-performance cooling for mission-critical, industrial, and process applications, ensuring operational continuity in every scenario.



Hitema International Rental Fleet — engineered to deliver reliable, efficient, and rapidly deployable thermal management solutions, wherever and whenever continuous cooling is required.

KEY FEATURES:

- **Scalable cooling capacities** and versatile configurations suitable for a wide range of industrial, process, and data center applications
- **Advanced monitoring and control systems** enabling real-time performance tracking, remote diagnostics, and proactive maintenance
- **High-efficiency system design** with environmentally responsible refrigerant options to minimize environmental impact
- **Flexible rental solutions** that reduce capital expenditure and optimize project-based operational costs

Each unit within the Hitema International Rental Fleet is fully configurable, including chassis customization, capacity optimization, hydraulic adaptations, and integration of special technical features. This engineered-to-order approach ensures precise alignment with client-specific operational requirements and site constraints.

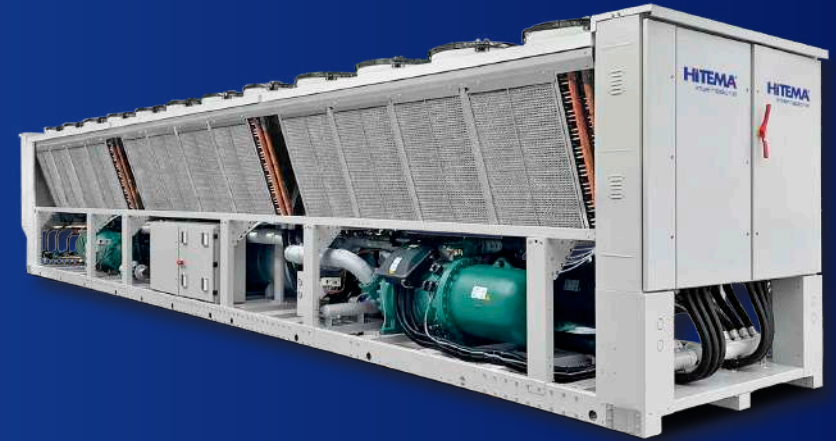
● Hitema International Screw Compressor Air-Cooled Chillers for Data Centers

Modern data centers require precise thermal management, continuous reliability, and operational resilience to protect critical IT infrastructure.

Hitema International air-cooled screw chillers are engineered for mission-critical environments, delivering stable chilled water supply, high operational efficiency, and scalable performance for evolving data center demands, with optional integrated **free cooling and pump solutions**.

KEY FEATURES:

- **High-capacity modulation capability** for accurate leaving water temperature control and optimized part-load efficiency
- **Redundant compressor configurations** to ensure uninterrupted cooling during maintenance activities or in the event of component failure
- **Advanced microprocessor-based control systems** with real-time monitoring, diagnostics, and predictive fault analysis
- **Optimized heat exchange surfaces** designed to guarantee consistent chilled water delivery within tight temperature tolerances, essential for IT equipment reliability
- **Robust mechanical construction** with vibration-dampened design for enhanced durability in continuous 24/7 operation
- **High energy efficiency** at both full and partial load conditions, supporting reduced total cost of ownership (TCO)
- Compliance with **international data center standards** for safety, performance, and energy efficiency



Designed to maintain optimal thermal conditions for critical IT loads, Hitema International screw compressor air-cooled chillers support uptime, operational continuity, and long-term scalability in modern data center infrastructures.

● Hitema International Turbocor® Air-Cooled Chillers for High-Density Data Centers

High-density data centers demand precision, efficiency, and continuous reliability.

Hitema International delivers engineered-to-order Turbocor® air-cooled chillers, designed for mission-critical applications, with optional integrated free cooling and pump solutions.

KEY FEATURES:

- **Oil-free magnetic bearing screw compressors** for reduced mechanical wear and maximum uptime
- **Independent refrigerant circuits** for enhanced redundancy and serviceability
- **Flooded shell-and-tube evaporators** for precise thermal control
- **Variable-speed fans and compressors** for optimized part-load efficiency
- **Advanced control systems** for integration with BMS/DCIM and precise leaving water temperature
- **Redundancy strategies** supporting N+1 and 2N architectures
- **Wide ambient operating range** (-30°C to +45°C) for flexible installation



APPLICATIONS:

AI clusters, high-density racks, hyperscale and colocation facilities, direct-to-chip liquid cooling.

Hitema International Turbocor® — engineered to deliver stable, efficient, and fully reliable cooling for the data centers of today and tomorrow.

● Hitema International Cooling Distribution Units (CDU) for High-Density AI and HPC Environments

High-density AI clusters and HPC racks require precise thermal management, operational resilience, and seamless system integration. Hitema International Cooling Distribution Units (CDU) are fully engineered-to-order solutions designed to ensure stable secondary loop performance, accurate temperature control, and maximum reliability in mission-critical data center applications.

KEY FEATURES:

- **Engineered-to-order configuration tailored** to high-density racks and dynamically evolving IT load profiles
- **Seamless integration with chilled water systems**, direct-to-chip liquid cooling, and rear-door heat exchangers
- **Redundancy-ready architectures (N+1 / 2N)** to support maximum uptime and operational continuity
- Advanced control platform **fully compatible with BMS/DCIM systems**, enabling real-time monitoring and predictive maintenance strategies
- Modular and stackable **design optimized for footprint efficiency** and scalable deployments
- **High-efficiency hydraulic design** with simplified service access for reduced maintenance time and enhanced lifecycle performance



APPLICATIONS:

AI clusters, HPC environments, hyperscale data centers, colocation facilities, and high-density enterprise deployments.

Hitema International CDU — engineered to deliver precise thermal stability, operational resilience, and fully integrated liquid cooling performance for the next generation of high-performance data center infrastructures.

Hitema International®
Headquarter and warehouse



HITEMA®
international

HITEMA INTERNATIONAL S.R.L.

HEADQUARTERS:

Via Mons. G. Babolin, 14
Bovolenta - Padova - ITALY
T. +39 049 53 86 344

CONTACT US!

Information and support:
info@hitema.it

Executive Director:
burbam@hitema.it

hitema.com

FOLLOW US!



“

The future of thermal management is defined by continuous innovation, engineering excellence, and fully tailored solutions.

At Hitema International, we design and manufacture advanced cooling systems — from industrial process chillers to mission-critical data center solutions and rental fleets — engineered to manage high thermal loads, optimize energy performance, and ensure uncompromised reliability.

Our strength lies in delivering fully engineered-to-order systems that address the specific operational challenges of every facility, combining efficiency, resilience, and long-term performance.

”

Maurizio Burba
Managing Director, Hitema International®