OTTOCOLD

CHILLER SYSTEMS

‘‘High Efficiency, Uninterrupted Cooling’’

2026

OttoCold Chiller Systems

Today, cooling systems have become a critical infrastructure element for industrial facilities, commercial buildings and large-scale structures in terms of energy efficiency, operational continuity and process reliability. Increasing capacity requirements and the need for precise temperature control make centralised and well-managed cooling solutions essential.

OttoCold transfers the technical expertise of its engineering team, built on approximately 30 years of experience in shipbuilding and HVAC, to the design and manufacture of air-cooled chiller systems. This experience forms the basis for accurately analysing cooling requirements across different sectors and developing system solutions tailored to specific applications.

Chiller systems operate as a central cooling source by removing heat from water or similar fluids and distributing the cooled fluid throughout a building or facility. This principle enables balanced, stable and sustainable temperature control in applications that require high cooling capacity. Chillers are widely used in both comfort air conditioning and industrial process cooling.

OttoCold Chiller Systems provide optimised central cooling solutions for industrial and commercial buildings, based on process sensitivity and application-specific cooling load analyses. The system design aims to ensure stable temperature control, efficient energy use and long-term operational reliability together.

OttoCold Air-Cooled Chiller Systems

Air-cooled chiller systems generate the required cooling for facilities and buildings through a centralised system. In these systems, the heat released at the condenser is removed directly by ambient air. This operating principle eliminates the need for cooling towers or additional water infrastructure, making installation and operation simpler and more flexible.

Thanks to these characteristics, air-cooled chiller systems are widely preferred in applications where water resources are limited or where additional infrastructure investments are not desired. By producing cooling centrally, they provide a balanced and manageable cooling solution capable of serving multiple areas simultaneously.

OttoCold designs and manufactures air-cooled chiller systems using its own engineering infrastructure. The systems are developed with a focus on ease of installation, operational flexibility and stable performance, while the technical configuration of your facility is accurately analysed to define the most appropriate cooling strategy. Design, installation, commissioning and monitoring processes are handled through a single engineering approach, aiming to deliver a reliable and uninterrupted operating experience.

Applications

- ✓ Commercial buildings (comfort air conditioning): Balanced and efficient management of central air conditioning loads in offices, hotels and shopping centres.
- ✓ Industrial process cooling: Controlled removal of process-generated heat in production lines and equipment to ensure process stability.
- ✓ Food production and processing: Reliable cooling for processes requiring precise temperature control during production and processing stages.
- ✓ Laboratories and research facilities: Stable cooling for experimental processes and technical infrastructures requiring high temperature accuracy.
- ✓ Data centres and critical infrastructure: Continuous and reliable dissipation of high heat loads generated by servers and IT equipment.
- ✓ Plastics, chemical and metal processing facilities: Controlled cooling of temperature-sensitive production processes in moulds, reactors and process lines.

OttoCold Chiller Systems Features

- ✓ High cooling capacity combined with superior energy efficiency
- ✓ New-generation compressors, optimised heat exchangers, and intelligent control architecture
- ✓ **Dual circuit engineering design**
- ✓ Stable performance under high ambient temperatures and demanding process conditions
- ✓ New-generation, high-efficiency, environmentally friendly refrigerants
- ✓ Full compliance with F-Gas regulations
- ✓ Cascade system architecture with a capacity range from 175 kW to 2,000 kW+
- ✓ Modular design enabling easy and cost-effective capacity scaling
- ✓ Variable-speed, high-efficiency axial fan technology
- ✓ Adaptive control for optimised energy consumption under varying load conditions
- ✓ Smart monitoring, remote access, and early warning capability
- ✓ Corrosion-resistant condensers and industrial-grade steel enclosure
- ✓ Long service life with low maintenance requirements

OttoCold Chiller System Features

- Superior Energy Efficiency: With our engineering expertise in refrigerant management, high cooling capacity and high energy efficiency are delivered together through new-generation compressor technology, optimised heat exchangers and intelligent control algorithms.

- Advanced Engineering Approach: OttoCold Chiller systems manage the refrigerant at the highest efficiency and performance levels through **dual-circuit technology**. The system structure, designed with reference to high thermal stress and intensive operating conditions, maintains stable cooling performance even under the most demanding ambient conditions and production cycles, ensuring uninterrupted operation.

- Today's Technology for the Future: Equipped with new-generation, high-efficiency refrigerants, OttoCold chiller units are developed in full compliance with F-Gas regulations, meeting environmental requirements while aiming to exceed current energy efficiency standards.

- Flexible and Scalable Capacity Structure: Thanks to cascade system architecture, OttoCold Chiller units offer a wide capacity range from 175 kW to over 2,000 kW. The modular design allows cooling capacity to be easily scaled as facilities grow, supporting long-term expansion plans without increasing initial investment costs.

- System Architecture Redefining Energy Performance: Variable-speed, high-efficiency axial fans, optimised compressor configurations and adaptive control algorithms enable the system to respond rapidly to load variations, eliminate unnecessary energy consumption and extend the operational life of the chiller.

- Smart Monitoring and Proactive Control: The advanced control infrastructure continuously analyses the operating characteristics of the system and automatically determines the optimum efficiency point. With remote access capability, the system can issue early warnings before faults occur, allowing service interventions to be carried out quickly, in a planned manner and with minimal downtime.

- Long-Lasting and Durable Construction: OttoCold Chiller systems are manufactured for long-term, trouble-free operation with corrosion-resistant condensers, a high-quality steel enclosure and professional installation details, ensuring extended service life together with ease of maintenance.

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