



magnetron
REFRIGERATION TECHNOLOGIES

*Industrial and Commercial
Refrigeration Technologies*



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With utilizing the proper eco-friendly smart technologies , we make sure that your investments are both profitable and also has low impact on the environment. Thanks to our extensive experience in the field of refrigeration technologies, we are able to provide innovative solutions and systems with significantly low energy consumption levels.



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Magnetron Refrigeration was founded by a highly experienced team of professionals in the refrigeration industry. We offer the industry's most comprehensive range of services, from initial system design and contracting turnkey cold storage plants to manufacturing refrigeration systems, technical service, maintenance and everything in between.

Magnetron is at the forefront of designing and installing environmentally friendly refrigeration systems with the highly advanced technologies available. As a result of experience gained from many refrigeration projects carried out by Magnetron engineers for many years especially on improving energy efficiency and optimization, we are able to deliver superior solutions in commercial and industrial cooling systems compared to standard devices available on the market. Magnetron offers solutions that create added value for each project and application. The company has adopted as a principle to follow closely all developments in refrigeration technology in the world and adapt them in their solutions while developing innovative systems through continuous R&D activities.

Magnetron engineers give utmost importance to analyse each project always with a "fresh look" in detail. Considering also the client's real expectations and priorities, they offer the proper solution alternatives. Making sure cold chain is not interrupted in any stage and offering the best equipment and technical solution to guarantee food safety will be always our top priority.

Magnetron Team

*"refrigeration technology
of **tomorrow**"*

We ensure that all kinds of food and various other products are stored with the most efficient method by providing optimum conditions in cool, cold and frozen temperature ranges, In this way we are able to deliver **100% Process Success Guarantee.**



Turnkey Projects

Project Design Services

- We meticulously analyze your projects, understand your expectations well and offer the ideal solutions.

Energy Optimization Studies

- Your investment and operating costs is important for us. We never want you to spend extra 1 watt for your system than you really need. Polaref is committed to providing provable and tangible energy consumption data for each system quoted.

Installation

- It is important to us to deliver unparalleled workmanship on every assignment. Our experienced team will carry out complete installation jobs such as installation of refrigeration systems, cold room sandwich panels, cold room doors, electrical and automation systems.

Maintenance and Servicing

- Through proper coordination of after-sales maintenance and service activities with our expert teams, we make sure to guarantee product safety and maintain customer satisfaction with human-oriented approach.



Commercial and Industrial Refrigeration Systems

- Split refrigeration systems
- Multi compressor systems
- Booster systems
- Cascade refrigeration systems
- Evaporators
- Condensers



Process Chiller Systems

- Air cooled chiller units
- Water cooled chiller units
- Glycol - circuit process cooling systems



Process chiller solutions for Plastic and packaging, heat treatment, machine tool, coating, die casting, chemical and pharmaceutical industry and food processes.

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Cold Chain Solutions

Melform Isothermal Container Solutions

- Up to 72 hours storage cold or frozen without the need for power
- Isothermal container is an unmatched industrial solution for preventing exposure of heat inside.
- Offers exclusive solutions for Catering, Transportation & Logistics, Hospitals & Healthcare Services and Biomedical industries.
- Lower your logistics and operational costs and become the most profitable link in the cold chain.



EPP Boxes

- **STRUCTURAL RESISTANCE** Main structural support thanks to the high strength/weight ratio.
- **LIGHTNESS** The reduction of the mass of the material and the number of minimized components drastically reduce the weight.
- **ENERGY ABSORPTION** The closed cell structure guarantees a return to the original shape after the dynamic stresses.
- **RECYCLABLE** Polibox est 100% recyclable



Professional Door Solutions for Cold Storage Plants

Cool – Cold – Frozen Applications

- Hinged doors
- Sliding doors
- Motorised sliding doors
- High speed PVC doors (with or without insulation)
- Sectional doors (with or without insulation)
- Door installation, after-sales maintenance and service

Nergeco (High speed PVC folding doors)

- Leading its industry, the world's best high speed PVC door systems.
- High speed PVC folding doors for all kinds of indoor/outdoor and various temperature applications.
- With options with or without insulation, they offer excellent performing productivity in cool, cold and even deep freeze rooms.



Incold (Rapid fold up doors and fully modular cold rooms)

- Rapid PVC fold up doors for indoor/outdoor and various temperature applications.
- With options with or without insulation, they offer excellent performing productivity and performance-oriented door solutions in cool, cold and even frozen rooms.
- Can be fully disassembled and transported, offers modular cold room solutions.



Warehouse Barrier and Safety Systems

Protection Barriers

- Door protection barriers
- Panel protection barriers
- Column protection barriers
- Shelf protection barriers
- Hygienic assembly accessories

Professional protection barriers and hygienic assembly accessories solutions for cool-cold-frozen rooms and logistics warehouses, production areas, factories, food plants etc.



Rack Protections



Bollard



Guards Rails



*Pedestrian Safety
Barriers*



Doors



Link



*Column
Protections*



*Protezioni Per
Pareti*



 **mpm**
PLASTIC PROTECTIONS

Food Retail Solutions

Refrigerated Cabinets for Supermarkets

- Vertical multi-deck cabinets
- Serve-Over counters and special display cabinets
- Plug-in cabinets
- Vertical and horizontal deepfreeze cabinets
- Multi compressors refrigeration systems
- Modular cold rooms



ENERGY



BETTER, BECAUSE CUSTOMISED EXCLUSIVELY FOR YOUR PROJECT

Our commitment is to reduce your energy costs and make sure your refrigeration investment is more profitable and eco friendly. We believe that specific conditions, needs and expectations of every client and project are different. That is why we approach every refrigeration request taking these differences into consideration together with detailed analysis and engineering calculations exclusively for each system.

MORE PROFITABLE AND ENVIRONMENT FRIENDLY

We are aware of the consequences of every single Watt consumption of your system both for you and for the earth. Polaref engineers design their equipment in such a way to minimize the energy consumption levels and make sure energy is not wasted. By minimizing energy expenses, we also protect our precious resources and our future.

AVOID CONSUMING MORE THAN YOUR NEED

Considering climatic conditions which the system will be operating, for a 1-year period of your project, starting from January until the end of December, monthly power consumption values and yearly efficiency values of the system (SCOP – Seasonal Coefficient Of Performance, SEER – Seasonal Energy Efficiency Ratio) will be determined according to the optimum operation conditions, and required simulations will be run.

Hourly refrigeration load of the system has been determined for each hourly period. Operation stages/frequencies of the compressors will be calculated to meet required load demand and to provide the best performance. Polaref performs all optimizations and improvements to maintain energy efficiency of the system in top condition according to the project properties and customer demands.

“Industrial and Commercial Cooling Solutions”



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