



AUTOMOTIVE REFRIGERATION SPECIAL PRODUCTS



REFRIGERATION



DESIGNING REFRIGERATION SOLUTIONS SINCE 1976

With a remarkable legacy as pioneers of cold chain solutions in the Middle East, CGS demonstrates its cutting-edge engineering capabilities with state-of-the-art innovations in product design and production technology. As a result, CGS reinforces its position as the leading cold chain specialist in the Middle East region with unmatched expertise and excellence.



CORE COMPETENCIES

As a dedicated cold chain specialist, CGS offers comprehensive refrigeration solutions for processing and cold storage needs, backed by an extensive Kingdom-wide service network. Our valued customers appreciate our unwavering commitment to our engineering excellence, our dedication to quality, and a steadfast orientation towards exceptional service.

ELEVATING REFRIGERATION VERSATILITY

Our tireless commitment to excellence is evident in our specialization: designing and installing customized cold rooms and refrigeration systems. We cater to a diverse range of industries; from fine dining establishments to crucial medical facilities. Our expertise spans a wide range of chilling and freezing solutions, from compact 'walk-in' units to large-scale industrial units. CGS is not just about precise temperature control; it's about creating controlled atmosphere environments that meet the unique needs of the relevant industries. Our dedication is both professional and deeply passionate, reflecting our commitment to keeping your world perfectly chilled.

OUR ENGINEERING SPECIALITIES

- Ammonia & CO2 applications
- Central Freon Rack solutions
- Processing Plants
- Multi Condensing Unit systems
- Water Chiller
- Small/Medium Condensing Units

KEY FEATURES

- Optimal Choice of Refrigeration solutions based on customer / product requirements
- Cost-Effective: With a focus on total cost of ownership
- Enhanced Efficiency: Our systems are designed to perform efficiently even at high ambient temperatures.
- Environmentally Friendly: We prioritize the use of environmentally friendly refrigerants
- Putting you in control: We design SCADA systems and other control solutions tailored to your needs
- Energy-Efficient Systems: We provide refrigeration systems that reduce energy consumption





INDUSTRIAL REFRIGERATION

Industrial refrigeration serves as an essential component in the preservation and protection of products within specific temperature parameters, particularly in large-scale projects. CGS takes pride in its expertise in establishing Industrial Refrigeration Facilities for prominent food processing and distribution enterprises within the Middle East.

These applications find their relevance in various industries such as cold food storage, dairy / poultry / meat processing, beverage production, ice rinks, heavy industry, petrochemicals and district cooling, encompassing vast cooling systems. Notably, ammonia refrigerant represents a longstanding choice in this field.

It is crucial to recognize that optimal control of temperature, in conjunction with factors like proper ventilation, humidity regulation, and ethylene management, is imperative for ensuring the quality and integrity of food and beverage products. The choice of our solutions is driven by energy consumption and running costs to optimize total cost of ownership.

COMMERCIAL REFRIGERATION

Commercial refrigeration is essential for various industries; preserving goods and reducing waste for temperature sensitive products. Our systems prioritize efficiency and sustainability through latest technologies.

CGS provides design, installation and maintenance solutions for retail, restaurant, hotel, and institutional refrigeration. We offer precise temperature control, customization, and energy efficiency, ensuring food safety, enhancing product shelf life and compliance with local and international regulations. Innovative technologies and sustainability efforts are transforming the industry, meeting consumer demands while reducing environmental impact.

KEY FEATURES

- Floor layout and planning
- Temperature Zones
- Energy-Efficient Equipment
- Ventilation and Airflow
- Regulatory Compliance
- Maintenance and Accessibility
- Remote Monitoring and Control
- Future Expansion
- Noise Levels



RACK SYSTEMS

- Saudi Made: Designed, developed and produced by CGS.
- We excel in delivery speed and offer solutions that will not need to be shipped from overseas.
- CGS rack systems are synonymous with uncompromising excellence, marked by remarkable load-bearing capabilities, all while maintaining cost-effectiveness.
- Applying innovative design principles to optimize space requirements.
- CGS solutions are highly adaptable and custom-tailored to meet the demands of any project.
- With CGS racks, installation is a swift, secure, and effortless process.
- Our solutions conform to global industry standards.
- Leveraging advanced cooling systems, we deliver substantial energy savings by utilising cutting-edge technology.





INSULATED PANELS FOR REFRIGERATION SYSTEM

Cold storage insulated panels are essential components in the construction of efficient and reliable cold storage facilities. They play a critical role in preserving the quality and safety of perishable goods while reducing operational costs.

The careful selection of suitable panels, along with strict adherence to established standards and protocols throughout the entire manufacturing process (from production to installation), contributes significantly to the increasing demand for Coldstores Projects from CGS. Our panels are customarily crafted from materials with exceptional insulating properties. The choice of material type, thickness, and dimensions depends on specific requirements and the nature of the products stored in the cold rooms.

We take pride in our dedicated team of project engineers and installation technicians, all highly trained and equipped with state-of-the-art tools. This ensures that we execute projects in strict compliance with ISO standards, delivering outcomes of the highest quality.

DOORS FOR REFRIGERATION SYSTEMS

HINGED DOOR

Hinged doors are delivered as one complete unit to optimize installation. Door leaves offer a special aluminum profile, integrated thermal barriers and rubber gaskets. For freezer applications, the design allows for a provision for door heater wire. For chiller rooms, aluminum doorframes are integrated with wall panels.

SLIDING DOOR

Sliding doors are usually delivered as a complete unit, easy to install with all fittings. Rails of the doors are made of salt water resistant material. The door leaves are made of an injected sandwich panel and enclosed all around with a polyester steel sheet fitted with door locks and handles including rail fittings. Freezer doors can be supplied with heating cables which prevents gelation and ice formation.



REFRIGERATION SYSTEMS AFTER-SALES SERVICE

Our after-sales service team plays a vital role in ensuring the reliability, safety, and cost-efficiency of our customer's refrigeration systems. By offering preventive maintenance and cost-effective service, we help our clients minimize equipment breakdowns and reduce energy costs while ensuring the safe storage of products. This approach aligns with global industry best practices, increases customer satisfaction and ensures long-term business success of our clients.

PREVENTIVE MAINTENANCE

Focusing on preventive maintenance, our after sales service department offers maintenance services to identify and resolve potential issues before they escalate into equipment breakdowns.

COST-EFFECTIVE SERVICE

We are committed to offering cost-effective service solutions. This commitment not only ensures the reliability of clients' refrigeration equipment but also helps to save money by optimized operational costs and to avoid expensive repairs or replacements.

EXPERTISE

Our technicians are specifically trained for the service and repair environment. They are constantly exposed to new and latest developments within the refrigeration industry and with our commitment to continuous improvement undergo on-going training and evaluation.

SPARE PARTS

Each service department hold stock of the critical spare parts, and in cases where parts need to be outsourced each department has a secure supply chain with the relevant OEM in order to obtain the relevant parts in shortest time possible.



EMERGENCY CALLS FREON & AMMONIA

- 24/7 services
- Supervisory Service Contracts
- Preventive maintenance with latest tools and procedures
- Oil, refrigerant ,thermal, vibration analysis
- Machines Alignment



OPERATIONAL CONTRACTS

- Highly trained technicians can run your facility ensuring smooth operation and maintenance of your system
- Overhauling workshops where we do the overhauling and other services in-house
- Power Consumption Monitoring
- Remote Monitoring Control Systems
- Genuine OEM Spare parts
- Consultation and Training

SERVICE CONTRACTS

CGS understands the specific needs for each of its customers, therefore each service contract is tailor made to suit the customer needs in order to obtain the best effective and economical service schedule.

APPLICATIONS



PHARMACEUTICALS



MEAT PROCESSING



FOOD & BEVERAGE



DAIRY INDUSTRIES



FRUITS & VEGETABLES



FISH PROCESSING



STORAGE & DISTRIBUTION



PETROCHEMICAL



BAKERY INDUSTRY



POULTRY PROCESSING

OUR RECENT PROJECTS

Refrigeration System: Ammonia, Industrial Refrigeration
Project Site: Riyadh, KSA
Capacity: 3 MW
Application: Processing, Storage & Distribution



Refrigeration System: Ammonia, Screw compressor
Central Rack system
Project Site: Riyadh, KSA
Capacity: 1.65 MW
Application: Agriculture and Farming



OUR RECENT PROJECTS

Refrigeration System: Ammonia, Screw compressor Central Rack system
Project Site: Riyadh, KSA
Capacity: 1.1 MW
Application: Storage and Distribution



Refrigeration System: Freon, Reciprocating central Rack System
Project Site: Dammam, KSA
Capacity: 300 KW
Application: Storage and Distribution



OUR RECENT PROJECTS

Refrigeration System: Ammonia, Industrial
Refrigeration
Project Site: Dammam, KSA
Capacity: 3.3 MW
Application: Storage and Distribution



Refrigeration System: Condensing Unit
Project Site: Dammam, KSA
Application: Logistics, Distribution & Sample
testing for Singapore Airlines



OUR RECENT PROJECTS

Refrigeration System: Ammonia, Screw compressor
Central Rack system
Project Site: Riyadh, KSA
Capacity: 1.65 MW
Application: Agriculture and Farming



Refrigeration System: Ammonia,
Industrial Refrigeration
Project Site: Riyadh, KSA
Capacity: 4.2MW
Application: Storage and distribution for
dairy, fruits & vegetables and poultry items





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