

COOLING SERVICES EXPERTS



 **blue freeze**
air conditioning contracting

+971 55 382 7847

infobluefreeze@gmail.com

05 2673 6690

bluefreezecontracting@gmail.com



Introducing Cutting-Edge Chilling Solutions

Unlocking Precision Cooling for Your Industry

Welcome to our comprehensive guide on advanced chilling solutions. Bluefreez Air conditioning contracting is an integrated engineering solutions company. With our cutting-edge technology and innovative solutions, we offer a comprehensive range of chillers to meet all your cooling needs. In this brochure, we'll delve into the functionalities, applications, and uses of glycol chillers, ammonia chillers, containerized chillers, evaporator condenser, cold storage, flake ice machines, and tube ice machine showcasing their versatility across various industries.



GLYCOL CHILLER

Applications:

- **Food and Beverage Industry:** Glycol chillers are widely used for temperature control in breweries, wineries, and food processing facilities.
- **Medical and Pharmaceutical:** They play a crucial role in maintaining precise temperatures for laboratory equipment, pharmaceutical production, and medical imaging systems.
- **HVAC Systems:** Glycol chillers are employed in large-scale air conditioning systems for commercial buildings, hotels, and hospitals.
- **Industrial Processes:** They are utilized in various industrial applications such as plastics manufacturing, chemical processing, and laser cutting.
- **Ideal for breweries, wineries, food processing facilities, and laboratories** where consistent temperature control is paramount.

Key features

- **Efficient cooling** with glycol-based refrigerants.
- **Precise temperature control** for sensitive processes.
- **Compact design** for space-saving installations.
- **Low maintenance requirements** for cost-effective operation.

Functions:

Glycol chillers utilize a mixture of water and glycol (antifreeze) to absorb heat from a process or environment. They employ a refrigeration cycle to cool the glycol solution, which is then circulated through a system of pipes or coils to remove heat from the target area. Glycol Chillers utilize a specialized coolant solution to maintain precise temperatures, ensuring optimal performance for your equipment and processes.



AMMONIA CHILLER

Functions:

Powered by ammonia refrigerant, our Ammonia Chillers offer unparalleled cooling efficiency and reliability even in the most demanding environments. Ammonia chillers utilize anhydrous ammonia as the refrigerant to absorb heat from a process or environment. They operate on the principle of vapor compression refrigeration, where ammonia is compressed, cooled, and expanded to achieve the desired cooling effect.

Key features

- High cooling efficiency with ammonia refrigerant.
- Robust construction for heavy-duty industrial environments.
- Scalable design to meet varying cooling demands.
- Environmentally friendly refrigerant with zero ozone depletion potential.

Applications:

- **Cold Storage and Warehousing:** Ammonia chillers are commonly used in cold storage facilities for preserving perishable goods such as fruits, vegetables, and dairy products.
- **Ice Rinks and Skating Facilities:** They provide efficient cooling for ice rinks and skating facilities, ensuring consistent ice quality and temperature.
- **Chemical and Petrochemical Industry:** Ammonia chillers are employed for cooling processes in chemical plants, refineries, and petrochemical facilities.
- **District Cooling Systems:** They are utilized in large-scale district cooling systems to provide chilled water for residential and commercial buildings.
- **Cooling industrial machinery,** preserving perishable goods in cold storage, and maintaining comfortable indoor environments in commercial buildings.





CONTAINERIZED CHILLERS

Functions:

Containerized chillers are compact and portable cooling units housed within a containerized enclosure. They are designed for easy transportation, installation, and operation, making them ideal for temporary or remote cooling applications. Containerized Chillers are fully self-contained units housed within a durable container, providing flexibility and ease of deployment.

Key features

- Modular design for easy transportation and installation.
- Quick deployment for urgent cooling needs.
- Integrated control systems for seamless operation.
- Durable construction for outdoor and rugged environments.

Applications:

- **Event Cooling:** Containerized chillers are used to provide temporary cooling for outdoor events, concerts, festivals, and sporting events.
- **Emergency Cooling:** They serve as backup cooling solutions for critical facilities such as data centers, hospitals, and laboratories during power outages or equipment failures.
- **Remote Locations:** Containerized chillers are deployed in remote or off-grid locations where traditional cooling infrastructure is not available or practical.
- **Construction Sites:** They provide temporary cooling for construction sites, chemical companies etc..helping to maintain optimal working conditions for workers and equipment.





FLAKE ICE MACHINE

Functions:

- Flake ice machines, where cold is not just a state, but a guarantee.
- Our flake ice machines are designed to provide you with ice flakes at temperatures below -8°C , ensuring optimal preservation and freshness for your products.

Applications:

- Our flake ice machines are ideal for various industries, including:
 - Food processing and storage
 - Seafood and fresh produce preservation
 - Medical and pharmaceutical storage
 - Concrete cooling in construction projects

Key features

- Directly formed at low temperature. Ice flakes are as cold as below -8°C .
- Once formed, ice flakes are dry, clean, sanitary convenient and not likely to lump
- Relatively big contact area and good mobility can ensure their full contact with refrigerated objects to realize good preservation effect
- Without any acute edges and corners, ice flakes cannot damage the surfaces of refrigerated objects and extremely benefit storage and delivery





TUBE ICE MACHINE

Functions:

Special ice making method to remove water impurity. The ice is hard and powder-less. The tube ice in hollow tube shape is transparent, sanitary and environment friendly. Several dimensions available. Outer diameter: 22, 29, 38 and 41 mm and can be customized to meet your requirement. Compared with flake ice, tube ice has longer melting time. Suitable for storing and transport

Applications:

- Hospitality: Perfect for hotels, restaurants, and bars where ice purity is paramount.
- Food Processing: Ideal for preserving freshness and quality in food processing applications.
- Retail: Enhance the presentation of packaged ice for retail sale with our crystal-clear tubes
- Industries: Chemical industries, production industries





EVAPORATIVE CONDENSER

Advanced patented technology, classic heat exchange and mechanical performance.

- Innovative combination of double heat exchange design
- Has non – clog air inlet louvers for easy maintenance of the water splaying system in big diameter
- Fewer coil connections, less recharge of refrigerant
- Low -HP axial fans
- Corrosion – resistant construction
- Provide lower condensing temperature and can offer significant kW savings.



SKID-MOUNTED CHILLER UNITS

Skid-mounted chillers are compact and ready-to-install cooling systems commonly used in industrial and commercial applications. They're designed for easy transportation, installation, and maintenance, making them a popular choice for various cooling needs.

- Provide efficient cooling solution for commercial and industrial applications.
- Compact design making them easy to transport
- Offering unparalleled flexibility
- Build with durable materials and advanced components for reliability and longevity
- Cost effective solution for cooling needs and made simple maintenance.





FREEZER/CHILLER STORAGE & BLAST FREEZERS

Welcome to our state-of-the-art cold storage solutions, engineered for maximum reliability, longevity, and efficiency. Our cold rooms, freezer rooms, and blast freezers are designed to meet the rigorous demands of various industries, ensuring the preservation of perishable goods while minimizing energy consumption.

- Handles your pull-down conditions with ease, completes the cycle quickly and efficiently
- Ideal for vegetables, fruits, meats and marine products
- Uniform cooling in every corner
- Very quick freezing time ensure minimal water loss and high product quality





COLD ROOMS

Produce Ripening Cold Rooms

Custom Built Refrigerated Storage and Display Cabinets

Custom Built Butchers Cold Plates

Proprietary Refrigerated Display and Storage Cabinets

Industrial Water Chillers

High Humidity Produce Cold Rooms

Ica Makers

Freezer Rooms

Refrigerated Drying Equipment

Refrigerated Heating Equipment

Different Types of Refrigeration compressors

Supply of all types of Refrigeration Spare Parts





SUPERMARKET AIR-CURTAIN COOLERS

Open Air Refrigerator

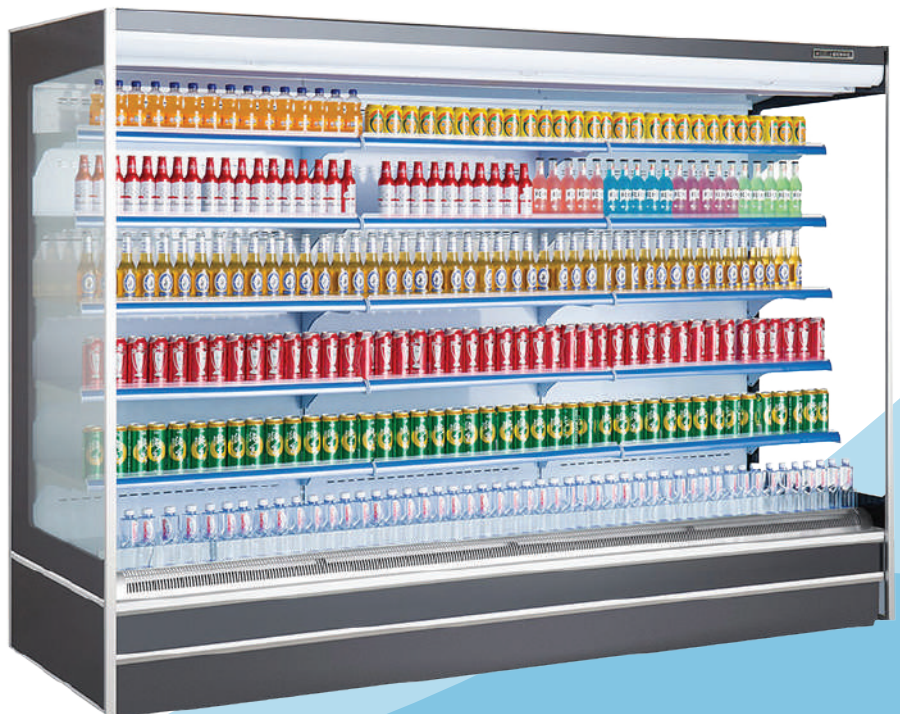
Glass Door Refrigerator

Counter Top Refrigerator

Dual Temperature Refrigerator

Under Counter Refrigerator

New Refurbished & Maintenance





REFRIGERATION EQUIPMENTS

Axial Fan Motors

Expansion Valve

Filter Drier

Solenoid Valve

Solenoid Coil

Vibration eliminators





Our Business Associates

