


THE COMPLETE REFRIGERATION SOLUTIONS

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CONTENTS

- 1 Who we are
- 2 Industrial & Commercial Cold Rooms
- 3 Thermal insulated doors
blast chiller , blast freezer, meat
processing and poultry processing
- 4 Refrigeration Units
- 5 Fruit Ripening System
- 6 Dock System
- 7 Control Panel
Temperature Monitoring & Controlling System
Transport Refrigeration
- 8 Our Clients
- 9 Contact Us

WHO WE ARE

Cool Concepts technical services undertaking major projects in the field commercial and industrial refrigeration projects based in UAE, Qatar, Oman and Africa. We provide cold storage solutions including walk-in chiller, freezer, and blast chiller – freezer cold room of either of these types for the facilities that requires controlled room environment, Annual Maintenance of the cold room systems with usage of Ammonia and Freon based refrigerant and supply and construction of loading and unloading area systems.

Established in Dubai, United Arab Emirates in year 2017 in a humble beginning, we have successfully commissioned and delivered the highest standard of design and construction in our valued client.

We are committed to our business to provide a better future by continuing commitment to excellence and providing clients with the highest quality of product and services.

INDUSTRIAL AND COMMERCIAL COLD ROOMS

We offer industrial and commercial cold rooms designed to maintain an internal temperature constant throughout the room. They guarantee that there will be sufficient space for storage by being constructed out of panels of variable dimensions. Our cold storage rooms are available in various categories to best meet your needs. Depending on the needs of your business, it may be a Walk-in Freezer or Walk-in Chiller, a Blast Freezer or Blast Chiller, or a cold room of either of these types. Retail establishments such as supermarkets and hypermarkets can benefit from our supply and installation of display freezers.

COMPONENTS

SANDWICH PANEL – WALL & CEILING

The Sandwich panel material construction is made from polyisocyanurate insulation material with foam with density of 40-42 kg per m³ and 0.5mm Pre painted GI sheets with protective film with rib cladding.

CONSTRUCTION OF COLD ROOM

Panels are joined together by different means of joints and joints are sealed by Special Silicon and Rivets to ensure 100% airtight.

LIGHTING

We have Vapor Proof Low Bay LED lights with Waterproof Switches for the cold rooms.

FLOOR COATING

Cool Concepts offers specialized floor protection solutions to various industries, such as those that operate cold rooms, warehouses, public kitchens, schools, and trailers. These solutions can also be utilized in multiple industrial applications, such as food processing, dairy, construction, and other industries. In addition, these find use in the offshore oil and gas industry and the maritime sector. These durable coatings are easy to clean, hygienic, and safe for use with food. In addition, they are designed for applications that require them to be used for an extended period. Sanitary conditions are maintained for food storage using a specific epoxy floor coating designed for certain applications.

ACCESSORIES

All panel accessories supplied and installed shall be L shaped pre-painted galvanized steel sheets for ceiling the external corners and aluminum angles for the internal Corner joints duly fixed with rivets and special silicon.

SAFETY PRESSURE VALVE

The pressure relief valve is an integral part of any cold store. Cold room walls are subjected to strains caused by variations in pressure, either from inside or outside. Which can affect the structure of the room and make opening the door difficult. The pressure relief valve ensures pressure equalisation and maintains a constant temperature for the unit.



THERMAL INSULATED DOORS

In-line with our industrial and commercial cold room construction we are offering our client the doors that are sustainable and suitable for cold room environment. We can supply and install doors mainly, Sliding Doors, Hinged Doors, Swing Doors, and any type of doors suitable to the design and requirement of the cold room.

ACCESSORIES

- PVC Curtains
- Door Lock
- Panic Bar
- Door Closer
- Electrical and Mechanical operated doors



BLAST CHILLER/ BLAST FREEZER

Blast freezers are sometimes referred to as shock freezers. This type of freezer storage rapidly brings down the temperature of (usually) cooked or fresh produce, freezing it very quickly to lock in the taste and nutrition of the food for optimum quality for consumers.

They are widely used in the frozen food industry for ice cream, pre-prepared meals and vegetables or fish; however, as they are very adaptable to the needs of businesses, there is no limit to the industries that can benefit from a Blast Freezer.

How Does a Blast Chiller Work?

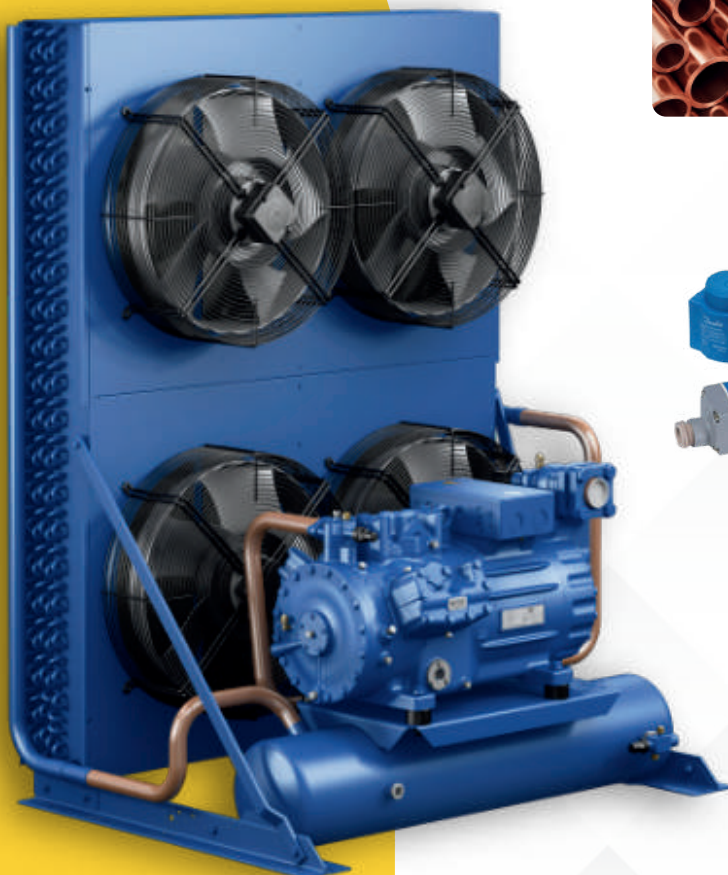
Blast chillers or freezers operate by blowing forced cooled air over food placed inside. These specialized freezers usually have various settings that can be selected depending on if your food is room temperature, chilled, or hot. This rapid cooling process decreases the number of ice crystals that appear on food. When defrosting food, large ice crystals melt and cause excess moisture to release, which largely impacts the taste and quality of your food products.

REFRIGERATION UNITS

Our client can ease their worries as we provide, install and maintenance of compressors systems, from condensing units with matching evaporators as per our clients desired specification and design details.

REFRIGERATION ACCESSORIES

- Copper pipes
- Filter Drier
- Sight Glass
- Vibration Eliminator
- Expansion Valve
- High pressure Switch
- Insulation Gasket
- Low Pressure Switch
- Solenoid Valve
- Refrigerant



FRUIT RIPENING SYSTEM

Certain fruits and vegetables should be stored at room temperature to keep them fresh and healthy. This is because refrigeration can cause cold damage – where the low temperature leads to damaged tissues in the produce that negatively affects flavor and texture. Refrigeration tends to slow down the ripening process. Low temperatures reduce metabolism in fruit, so the methods we described above to slow down ripening. In a way we can control the ripening of the fruit and vegetables as we want.

**RIPENING YOUR FRUITS
TO PERFECTION
WITH CONTROLLED TEMPERATURE**



DOCK SYSTEM

With our business extensive experienced in cold room, we accomplished and supplied projects that requires control temperature in loading and unloading area. We supplied and installed this areas requirement such as Sectional Doors, High Speed Doors, Dock Leveler Dock Shelter and loading barriers.

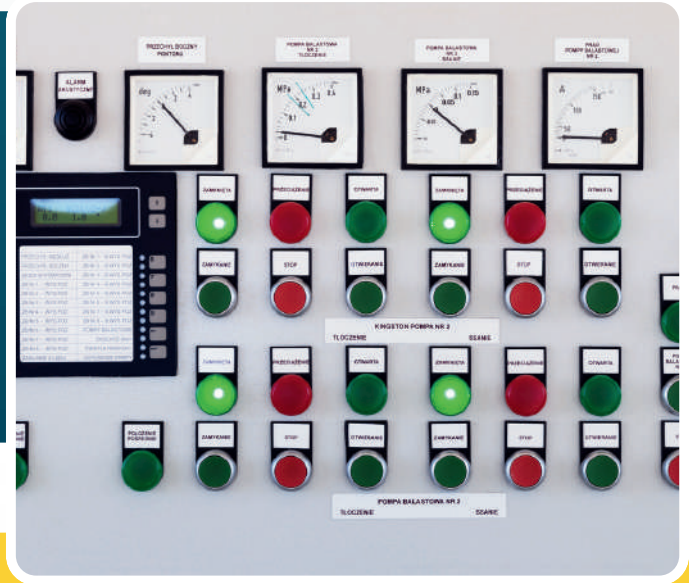


CONTROL PANEL

We offer Electric Control Panel Board contains fully automatic system with digital P.L.C. based controls. This will provide Better Power Consumption, Safety and Protection.

ACCESSORIES

- Contactors
- Circuit Breaker
- Electrical Cable



TEMPERATURE MONITORING & CONTROLLING SYSTEM

Because we have access to the most recent technology, we can monitor and operate a collection of cold rooms and transport refrigeration. Our mobile devices allow us to operate them from anywhere in the world, so we are able to control them remotely.

This system will manage the continuous gathering of data from the devices and provide a prompt diagnosis in case of any malfunction or parameter variation. This will result in an improvement in the performance of the refrigeration system and equipment. In addition to this, it generates a variety of reports that can assist management in making decisions that are informed.

TRANSPORT REFRIGERATION

We in our team we can modify, supply and maintenance of any vehicle transport refrigeration based on the requirement our client need. We can fabricate and insulate vehicle bodies of any type or size, including delivery vans with refrigeration systems installed. We make it a point to inspect every vehicle's quality and strength, ensuring that the appropriate temperature and environmental tolerances are met and maintained effectively. Additionally, Cool Concepts offers the service of converting dry containers into mobile freezers and chillers for its customers. Maintenance and repairs of all kinds are performed with the utmost urgency on all refrigerated vehicles and containers to guarantee on- time delivery.



OUR CLIENT

THE ART OF REFRIGERATION





DESIGN CONSTRUCT


SUPPLY

INSTALL

REPAIR MODIFY

MAINTENANCE

Let's plan the future of your business with us...

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