



PRITHVI PRECISION ENGINEERING PVT. LTD.

AN INTEGRATED SOLUTIONS IN COLD ROOMS, BLAST FREEZERS



About us:

PRODUCT HIGHLIGHTS

FREON BASED REFRIGERATION SYSTEMS

- AIR/WATER COOLED HERMETIC/SEMI-HERMETIC /SCREW/SCROLL R404A REFRIGERANT SYSTEMS FOR COLD STORAGES
- LOW HUMIDITY REFRIGERATION SYSTEMS FOR SEED STORAGES
- HIGH HUMIDITY REFRIGERATION SYSTEMS
- ULTRA LOW TEMPERATURE REFRIGERATION SYSTEMS FOR BLAST/TUNNEL/PLATE/SPIRAL FREEZERS
- BULK MILK CHILLERS
- WATER/BRINE CHILLERS FOR MILK CHILLING AND OTHER PROCESSES
- SPECIAL REFRIGERATION SYSTEMS FOR STABILITY CHAMBERS
- SPECIAL REFRIGERATION SYSTEMS FOR RIPENING CHAMBERS
- CA CHAMBER

AMMONIA BASED REFRIGERATION SYSTEMS

- REFRIGERATION SYSTEMS FOR COLD STORAGES
- ULTRA LOW TEMPERATURE REFRIGERATION SYSTEMS FOR BLAST/TUNNEL /PLATE FREEZERS
- SPIRAL FREEZERS FOR MEAT/RTE/F&V etc..
- WATER/BRINE CHILLERS FOR MILK CHILLING AND OTHER PROCESSES
- COMPRESSOR PACKAGES WITH OPEN/RECIP/SCREW COMPRESSORS SUITABLE FOR ANY APPLICATIONS - Compak
- WATER COOLED/EVAPORATIVE CONDENSING UNIT FOR ALL THE CAPACITIES - Conspak
- LOW PRESSURE RECEIVER WITH CONTROLS - Freezulator

INSULATED PANELS FOR COLD ROOMS-INSTACOLD PRIME (STG/DTG)

RIGID POLY URETHANE FOAM INSULATED PANELS SUITABLE FOR COLD ROOM APPLICATION, WITH SINGLE/DOUBLE TONGUE AND GROOVE. THICKNESS 40 - 200mm. STANDARD LAMINATION - PCGI. OPTIONS FOR SS.

INSULATED PUF SLABS FOR COLD ROOM FLOORS-INSTACOLD BASE

RIGID POLY URETHANE FOAM INSULATED PANELS SUITABLE FOR COLD ROOM FLOOR APPLICATION, THICKNESS 50 - 200mm.



INSULATED PANELS FOR COLD ROOMS WITH CAM LOCK-INSTACOLD PRIME (SCL/DCL)

RIGID POLY URETHANE FOAM INSULATED PANELS SUITABLE FOR COLD ROOM APPLICATION, CAM LOCK WITH SINGLE/DOUBLE TONGUE AND GROOVE. THICKNESS 60 - 200mm. STANDARD LAMINATION - PCGI. OPTIONS FOR SS.

INSULATED PANELS FOR ROOFING - COOLTOP

RIGID POLY URETHANE FOAM INSULATED PANELS SUITABLE FOR ROOFING APPLICATION, WITH THICKNESS 30 - 150mm. STANDARD LAMINATION - PCGI. OPTIONS FOR ALUMINIUM FOIL BOTTOM LAMINATION.

INSULATED PANELS FOR BUILDING-INSTABUILD PRIME (STG/BTB)

RIGID POLY URETHANE /POLY ISOCYNUATE FOAM INSULATED PANELS SUITABLE FOR BUILDING CONSTRUCTION APPLICATION, WITH THICKNESS 40 - 150mm. STANDARD LAMINATION - PCGI.

INSULATED PANELS FOR BUILDING-INSTABUILD MYSTIC (FS/SG/MG)

RIGID POLY URETHANE /POLY ISOCYNUATE FOAM INSULATED PANELS SUITABLE FOR BUILDING CONSTRUCTION APPLICATION, WITH THICKNESS 50 -150mm. STANDARD LAMINATION - PCGI. SECRET FIXING PROVISION, WITH THREE DIFFERENT SERRATION.

INSULATED DUCTING PANEL

RIGID POLY URETHANE /POLY ISOCYNUATE FOAM INSULATED PANELS SUITABLE FOR DUCTING WORK - 20/30MMTHK WITH ALUMINIUM FOIL LAMINATION

INSULATED PANELS FOR CLEAN ROOM BUILDING-INSTABUILD HYPER CLEAN (EBP)

RIGID POLY URETHANE /POLY ISOCYNUATE FOAM INSULATED PANELS SUITABLE FOR BUILDING CONSTRUCTION APPLICATION, WITH THICKNESS 50-150mm. STANDARD LAMINATION - PCGI. WITH EDGE PROFILE.



PRODUCTS:-

❖ Cold Storages



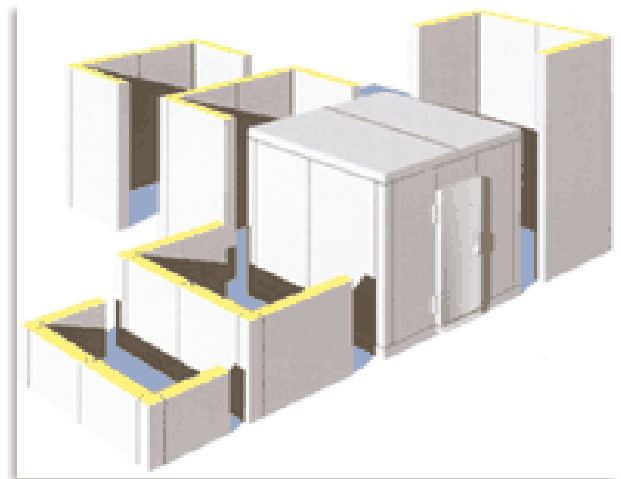
In today's changing global climate scenario, which presents threats to sustainable food production, the need for conservation of resources becomes more relevant. It calls for sustainable and eco-friendly preservation techniques to prevent wastage and maximise utilisation.

Our Industrial Refrigeration (IR) products, cooling equipment, and services are innovatively designed to meet the challenges posed by the changing world. Highly customisable, these products cater to large and small needs of industries across verticals such as food processing, agro, and pharmaceuticals. Our products assist in storing farm produce, freezing, storing cooked and semi-cooked poultry, seafood, fruits, and vegetables.

❖ Panels

Pre-fabricated, insulated, metal laminated panels best suited for freezing and chilling

- Rigid polyurethane Foam (RPUF) insulation
- Pre-painted Galvanised Steel (PPGS) or Stainless Steel (SS) metal laminate
- Insulation thickness from 60mm up to 200mm
- Panel width of 1200mm
- Panel length up to 12500mm
- Joinery through cam-lock and finished with a silicone sealant





❖ Doors



Pre-fabricated, insulated doors with great features

- Swing, sliding, roll-up types
- Non-corrosive, non-metallic hinges, door handles, and locks
- Self-closing hinges
- Heaters in door leaf and frame
- Audio alarm for 'door-open' condition
- View port with anti-condensate glass
- Lock defeat mechanism
- Positive seal mechanism for all door types to avoid cold air loss

❖ Cold Ware Houses

The cold warehouses are designed for specific cooling and storage needs of industry verticals. Ideal for storing items that are sensitive to extreme temperatures or those required for immediate use, like fruits, vegetables, seafood, meat, seeds, and hygroscopic items as well as milk and dairy products.

Features

- Pre-fabricated, insulated panel doors
 - A range of floors for various applications
 - Well-balanced and flexible refrigeration systems;
 - Hermetic or semi-hermetic compressors
 - CFC-free refrigerant
 - Accurate temperature levels for pull-down and holding
 - Tropicalized design condensers
 - Customised accessories
 - Loading / un loading dock shelters / leveller;
 - Racking arrangement to suit
-





❖ Blast freezer/Blast Chill

Details:

Custom blast freezer innovations include bimetallic couplers, low temperature (-40) DX ammonia evaporator system with smart hot gas defrost, anti-microbial fin materials and coil construction, sanitary design evaporators for food processing applications, low temperature (-40) water defrost and corrosion resistant coil construction.

Long air throw adapters are available to increase air throw to 300 ft. Fans can be specified for demanding applications with tightly packed product such as blast freezing or pressure cooling. Fan arrangement options include 45⁰ down discharge, horizontal discharge, blow through and draw through.



❖ Capacities: From 10KW (3TR) to 1750KW (500TR).

Evaporative condenser

- An evaporative condenser is a device which facilitates the condensation, or return to a liquid state, of a hot gas or vapor in a tube system using the evaporation of water flowing over the tubes. In simple terms, an evaporative condenser uses a system of tubes exposed to a constant flow of water to cool and condense a hot gas. The cooling and subsequent condensation of the gas is caused by a process of heat transfer that takes place when the water flowing over the gas-filled tubes evaporates. This process is used extensively in the air conditioning industry as a means of condensing refrigerant gas.



Features

Condensers Coils:

Heavy duty coils are made from steel pipe provided with aluminum fins for maximum heat transfer at low consumption of power & water. The complete coil unit is hydraulically tested.



Axial Fan:

The rugged high tensile aluminum alloy fan blades are designed to give high air velocity along with years of trouble free service. The multi-blade impeller fans are mounted directly on the motor shaft. The sturdy fan housing are made from heavy gauge metal sheet. Fan motors are of totally enclosed type air-over motor design which ensure long life service.

Eliminators:

Scientifically formed heavily eliminator to control entrained moisture.

Spray Nozzles:

Special metal, easy cleanable and arranged to completely spear condenser coil with water.

Pump:

Conservatively sized from maximum water quality. Centrifugal type, enclosed electric motor is directly connected to the unit in horizontal position. The suction line of the Pump is constantly immersed in the water reservoir assuring positive water circulation.

Casing:

Heavy gauge steel sheet are used for construction of casings. The units are painted with electrostatic paint for protection against moisture and rust.

Installation:

The refrigerant and water line connections are flanged type for quick installation. The electrical junction box is located on the unit for wiring.

Testing:

The unit coils are tested up-to 20 Kg/Cm hydraulisc pressure at our factory to ensure leak proof.



Prithvi Precision Engineering Pvt. Ltd.

Safety - Quality - Planning

The Three Laws of Successful Execution.

- **Safety** – **Our Prime Motto**
- **Quality** – **We deliver**
- **Planning** – **Planning in advance,
Planning in Detail.**

Key to success

Reliability

Quality

Service

Teamwork

Contact us:

REGD. OFFICE: - B-004, SHRI PANDIT CHS. LTD, BALRAJESHWAR ROAD, MULUND WEST, MUMBAI – 400 080.

FACTORY ADDRESS: PLOT NO. PAP-R-402, RABALE MIDC., THANE-BELAPUR ROAD, NAVI MUMBAI.

PHONE: +91-22-27601065.

MOBILE: +91-9769023799 / 9867753109

EMAIL: - prithviengg@live; prithviengg@hotmail.com; prithviengg@gmail.com

Visit us at: www.prithviengg.com