PRIME
COIL & CONDENSERS

MAKE IN INDIA

Complete Industrial Refrigeration Solutions for Ammonia & Freon

ALL UNDER ONE ROOF

www.primecoilcondensers.com

WHAT'S INSIDE

Table of Contents

COMPLETE INDUSTRIAL
REFRIGERATION SOLUTIONS

1 THE COMPANY

2 Ammonia

NATURAL REFRIGERANT · NH_3 PAGES 05–15

3 Freon

SYNTHETIC REFRIGERANT · HFC PAGES 16–23

4 SOLUTIONS & CONTACT

LEADERSHIP

Founded by Industry Veterans

Prime Coil & Condensers Pvt. Ltd. is promoted by Mr. Neeraj Checker and Mr. Vikram Luthra, both possessing extensive experience in the refrigeration industry with deep expertise in ammonia and Freon refrigeration systems. Having successfully established and operated businesses in the sector for many years, they have combined their technical knowledge, manufacturing experience and industry insight to create Prime Coil — with decades of practical experience aiming to be a trusted partner for industrial refrigeration projects across India and international markets.

FOUNDER & DIRECTOR

Mr. Neeraj Checker

FOUNDER & DIRECTOR

Mr. Vikram Luthra

FOUNDERS'

Vision

To build a globally respected industrial refrigeration company by combining engineering excellence, innovation and customer trust — while setting new benchmarks in ammonia and Freon refrigeration solutions.

FOUNDERS'

Mission

To deliver reliable, energy-efficient and technologically advanced refrigeration systems through continuous innovation, uncompromising quality and long-term customer partnerships.

WHO WE ARE

About Us

Prime Coil & Condensers Pvt. Ltd. is a leading manufacturer of industrial refrigeration equipment and complete cooling solutions — engineered for both **Ammonia (NH_3)** and **Freon** based applications. We specialise in the design, manufacturing and supply of energy-efficient, reliable systems built to international standards, delivered from concept to commissioning with full after-sales support.

25+	15+	NH_3·Freon	Pan-India
YEARS EXPERIENCE	PRODUCT LINES	CORE REFRIGERANTS	& EXPORT REACH

OUR PRODUCT PORTFOLIO — TWO CORE CATEGORIES

Ammonia Based

NATURAL REFRIGERANT · NH_3

- Ammonia Air Cooling Units
- Laser Welded — Pillow Plates
- Evaporative Condenser — Mixed Flow Pillow Plates
- Evaporative Condenser — Counter Flow with S/S Tube Coil
- Plate Ice Machine
- Falling Film Chiller
- Plate Ice Bank
- Pressure Vessels
- Liquid Ammonia Pump & Overfeed System
- Shell & Tube Condenser & Chiller
- Advance HVAC Solutions for Cold Storage

Freon Based

SYNTHETIC REFRIGERANT · HFC

- Commercial Evaporators
- Blast Freezers, Chillers & Monoblock Units
- Condensing Units
- Industrial Chillers & Heat Pumps
- Reciprocating & Scroll Condensing Outdoor Units
- Shell & Tube (Freon) Condenser & Evaporator
- Modular Cold Rooms
- Cold Chain Doors

Chamber Plants / Turnkey Solutions

WHO WE SERVE

Industries We Serve

Our ammonia and Freon refrigeration systems power a broad spectrum of industries — engineered for the specific cooling demands of each application.

FOOD & AGRICULTURE

- Pre-cooling
- High-humidity cold storage
- Frozen storage
- Freezing of fruits & vegetables
- Controlled-atmosphere cold storage
- Ripening rooms
- Distribution rooms

DAIRY & ICE CREAM

- Ice cream / butter / cheese / milk storage
- Ice-cream candy making
- Hardening tunnel
- Chilled water plants
- Chillers
- Glycol & calcium-chloride brine chilling

MEAT, POULTRY & SEAFOOD

- Quick chilling rooms
- Water chillers
- Pre-chillers
- Blast freezers
- Plate freezers
- Low-temperature frozen chambers
- Cold storages
- IQF

BEVERAGE & BREWERY

- Malt cooling
- Wort cooling
- Water chillers
- Cold storages
- Chillers
- Glycol chillers
- Volator cooling systems
- Hops stores
- Yeast cooling

LOW-TEMPERATURE APPLICATIONS

- IQF
- Low-temperature frozen chambers
- Blast freezers
- Plate freezers

CHEMICAL & PHARMACEUTICAL

- Oxy-chlorination
- Brine chilling
- Water chilling
- Acid cooling
- Compressed-air cooling
- SO_2 / CO_2 liquefaction
- Heat-recovery systems
- Process industry
- Chlorine liquefaction
- Ammonia liquefaction

MISCELLANEOUS

- Tube-ice making
- Ice storage rooms
- Brine chilling
- Concrete cooling
- Vanaspati cooling
- Ice-skating rinks
- Thermal-energy systems
- Block-ice plants
- Flake-ice plants
- Ice production

AIR CONDITIONING

- Thermal power plants
- Food processing / packing halls
- Process rooms
- Fertilizer plants
- Chemical plants
- Marine air conditioning & refrigeration

LOGISTICS & WAREHOUSING

- Pre-chillers
- Water chillers
- Blast freezers & plate freezers
- Flake-ice makers
- Low-temperature frozen chambers
- IQF

OUR APPROACH

Engineering Excellence.
Manufacturing Excellence.

Precision Engineered · Quality Assured · Customer Focused

OUR CAPABILITIES

Engineering & Design
CAD · Simulation · Prototyping

Precision Manufacturing
CNC · Laser Cutting · Bending · Forming

Quality Assurance
Inspection · Testing · Traceability

Customer Support
End-to-End Service · After-Sales

Experts in Design
Engineered for performance.

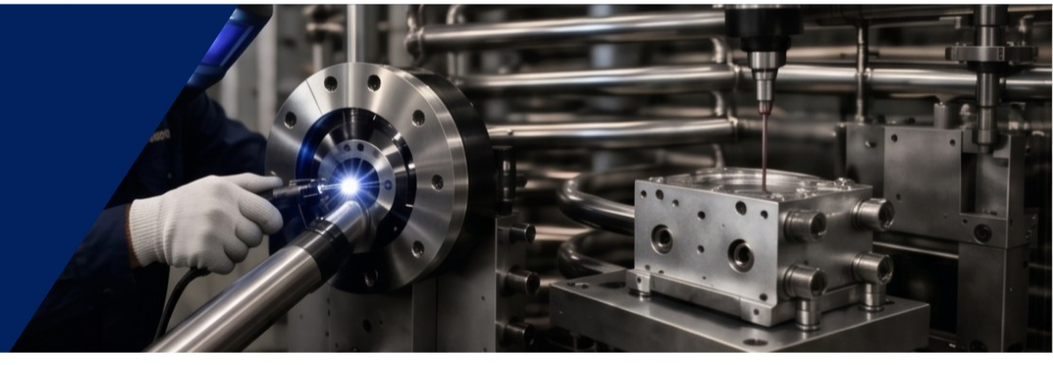
Committed to Quality
Quality at every stage.

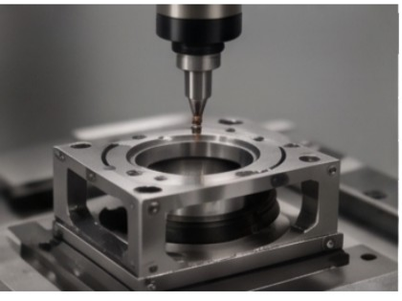
Customer Focused
Reliable, on-time delivery.

SPECIALIST PROCESS

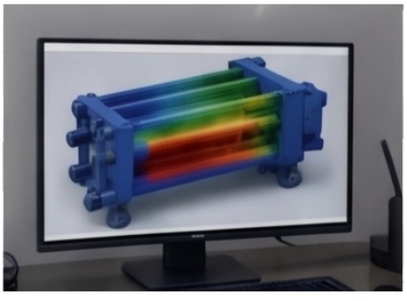
Orbital Welding

High-purity, leak-free welds for critical refrigeration.





Precision Inspection
CMM inspection for dimensional accuracy and zero defects.



Simulation & Analysis
CAE and FEA optimise strength and reliability.

Lean Production
Smart workflows deliver maximum value.

Quality Is In Detail
Every component crafted and inspected to last.

AMMONIA RANGE · 01

Ammonia Air Cooling Unit

The Ammonia Air Cooling Unit consists of SS tube & aluminium fin-type heat exchanger coils through which ammonia (R-717 / NH_3) refrigerant circulates for heat transfer. Thanks to ammonia's superior heat-transfer capacity, it requires a smaller heat-transfer area than units using R-134A, R-22 or R-404A.

KEY FEATURES

SS-304 L Tubes
Corrosion-resistant stainless-steel heat-exchanger tubes.

High Air-Flow Fans
High-volume axial-flow fans with weather-proof motors.

Temperature Range
Operates from –5°C down to –55°C.

Multiple Defrost Options
Electric, hot-gas, water & air defrost systems.

High-Grade Aluminium Fins
Corrugated patterns and rippled edges boost heat transfer.

Orbital SS-Tube Welding
Complete, consistent leak-proofing across every joint.

Square Fin-Pitch Geometry
Pyramid-shaped fins optimise airflow for max efficiency.

Press-Tested Coils
Each SS tube is pressure tested to prevent future leakage.

Fully Customisable
Tailored to diverse industrial cooling needs.

APPLICATIONS

- Fruits & Vegetable Storage
- Chilli Cold Storage
- Meat Freezer Room
- Sea-Food Freezer Room
- Dairy Cold Room
- CA Chamber for Apple Storage

Laser Welded — Pillow Plates

Single Embossed Tank Plates

SINGLE-EMBOSSED PILLOWPLATE

After inflation, one side of the plates welded to each other remains completely flat. The flat side suits hygienic surfaces on the inside of a tank — so, in the case of a single embossed pillow plate, the inside no longer has to be finished (ground).

UNIQUE TECHNICAL DEVELOPMENT

We use laser welding technology, further developed in-house, for the single-embossed pillowplate. Even with relatively thin plates, the pillowplate withstands high operating pressures.

OPTIMAL HEAT TRANSFER

Single-embossed pillowplates are ideal as a tank wall for cooling or heating tanks in the food industry, withstanding high operating pressures. Our design flexibility and heat-transfer expertise guarantee optimal performance.

MANY USES

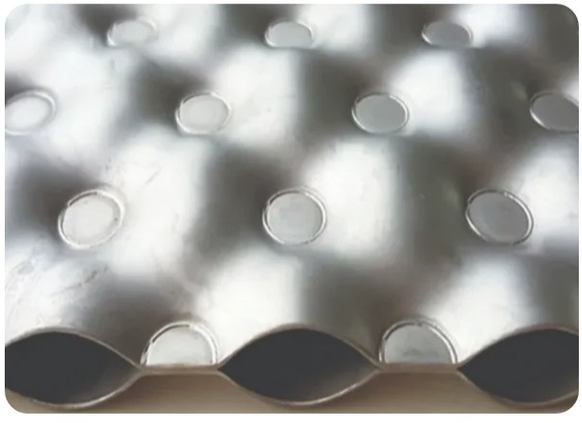
Widely used as a heat exchanger in tank construction for food and processing industries. Suitable for heating and cooling with a wide range of agents — water, steam, glycol and thermal oil.

Double Embossed Plates

Double-embossed pillowplates are ideal heat exchangers for liquids, powders and granules. Laser welding allows these relatively thin plates to withstand high pressures, while flexible designs ensure optimal heat transfer.

Widely used in the food and cooling industries (e.g. Falling Film or Immersion coolers), they are compatible with a range of media including **water, steam, glycol, Freon, NH_3 and CO_2**.

WATER · STEAM · GLYCOL · FREON · NH_3 · CO_2



Evaporative Condenser Mixed Flow with SS Pillow Plates

Our Evaporative Condensers are a cutting-edge solution for industries seeking advanced, high-efficiency condensers. Widely used in refrigeration and industrial processes, they combine the principles of heat exchange and water evaporation to deliver an environmentally friendly, cost-effective alternative to traditional condensers.

APPLICATIONS

- Refrigeration Systems
- Closed Circuit Cooling
- Industrial Processes

ADVANTAGES

- Exceptional heat-transfer efficiency
- Energy-efficient performance
- Compact design with a smaller foot-print
- Durability and reliability
- Low maintenance
- Quiet operation

KEY FEATURES

- Highly durable stainless steel pillow plates
- Both plate and pipe options to suit customer needs
- Complete stainless steel construction
- Capacity up to 700 TR in a single unit
- Direct-drive induced-draft PPG fans
- Unique IZ3 spray nozzles for even water distribution
- Ladder for top access & internal access for easy maintenance

Our Evaporative Condensers are recognised for their reliability and high performance in industrial refrigeration systems. With innovative design and a focus on sustainability, they help industries enhance cooling efficiency while reducing environmental impact — **representing the future of cooling technology across a wide range of applications.**

Evaporative Condenser Counter Flow with SS Tube Coil

High-performance evaporative condensers engineered for industrial ammonia refrigeration — an SS-304 coil block and stainless basin deliver maximum heat rejection with minimum power consumption and long, corrosion-free service life.

KEY FEATURES

- **Material —** SS-304 coil block that minimises corrosion and maintenance.
- **Capacity Range —** Models from 100 kW to 1600 kW heat-rejection capacity.
- **Basin Construction —** SS water sump & structure that minimise corrosion.
- **Drift Eliminator —** High-efficiency PVC eliminator reduces drift from the expelled air-stream.
- **Design Configuration —** Multi-section design for easy transport & installation.
- **Application —** Suitable for Ammonia as well as Freon refrigerants.
- **Fan Spec —** Highly efficient axial-flow fans with weatherproof motors & SIS fan hub.
- **Noise Level —** Low noise with large water flow from a low-pressure-drop spray shower.

APPLICATIONS

Cold Chain	Food Processing	Dairies
Breweries	Sea Food Process	Chemical & Pharma

Plate Ice Machine

Prime Plate Ice Machines represent the pinnacle of modern ice-making technology — offering advanced features, superior quality and unmatched efficiency, designed to meet the demands of a wide range of industries.

APPLICATIONS

Food Processing | Fisheries | Construction | Dairy | Chemical Processing | Pharmaceuticals | Retail

ADVANTAGES

- Superior ice quality
- Energy-efficient performance
- Durability and reliability
- Negligible maintenance
- Compact, less foot-print
- Completely automated & user-friendly
- Flexible ice thickness to match specific requirements

KEY FEATURES

- Highly durable stainless steel pillow plates
- Complete stainless steel hygienic construction
- Capacity from 500 kg/day up to 75,000 kg/day in a single unit
- Works with all refrigerants — Ammonia, Freon and glycols
- Works in DX / gravity / pumped systems
- Accessibility from all sides
- No moving parts for a maintenance-free design
- Option available for seawater applications

Engineered to deliver consistent, high-quality ice with minimal energy consumption — the designed capacity is reliably delivered even after years of operation. Complete stainless steel construction ensures **high-quality, food-grade, non-clumped ice**, suitable for large-capacity ice handling and fast delivery systems.

Falling Film Chiller

Prime Falling Film Chillers are at the forefront of modern cooling technology — offering advanced features, exceptional quality and unparalleled efficiency. Designed to meet the rigorous demands of various industries, they provide precise, reliable cooling for a wide range of applications.

APPLICATIONS

- Food Processing
- Fisheries
- Construction
- Dairy
- Chemical Processing

ADVANTAGES

- Optimal heat-transfer efficiency
- Energy-efficient performance
- Precise cooling for temperatures up to 0.5°C
- Durability and reliability
- Negligible maintenance
- Environment friendly

KEY FEATURES

- Highly durable stainless steel pillow plates
- Complete stainless steel hygienic construction
- Can handle any capacity as required
- Works with all refrigerants — Ammonia, Freon and glycols
- Higher evaporating temperature for high energy efficiency
- Works in DX / gravity / pumped systems
- Accessibility from all sides
- No moving parts for a maintenance-free design
- Option available for seawater applications

Investing in high-quality Prime Falling Film Chillers ensures superior performance, energy savings and operational reliability. With cutting-edge technology and a focus on sustainability, they help industries **enhance cooling processes while reducing costs and environmental impact** — delivering reliable, accurate performance across a wide range of industrial applications.

Plate Ice Bank

Prime Ice Banks serve as thermal energy storage systems designed for efficient refrigeration in industrial applications. They store cooling capacity as ice during off-peak hours and release it during peak demand — consistently maintaining chilled water below 0.5°C to meet variable cooling loads.

APPLICATIONS

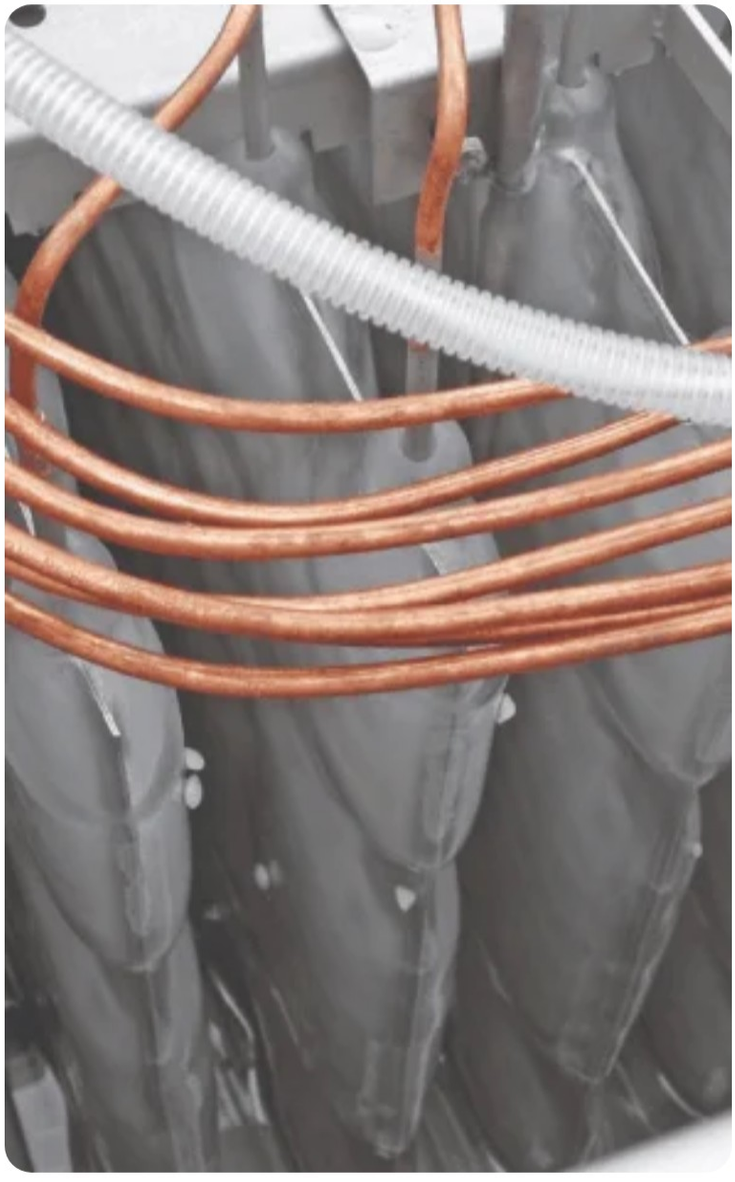
- Dairy
- Thermal Storage Systems
- Food Processing

ADVANTAGES

- Lower capital investment
- Energy-efficient performance
- Consistent cooling for temperatures below 0.5°C
- Durability and reliability
- Negligible maintenance

KEY FEATURES

- Highly durable stainless steel pillow plates
- Complete stainless steel hygienic construction
- Can handle any capacity as required
- Works with all refrigerants — Ammonia, Freon and glycols
- Higher evaporating temperature for high energy efficiency
- Works in DX / gravity / pumped systems



Prime Ice Banks help reduce upfront capital investment for the industry. By shifting loads to cheaper off-peak power, they **cut energy costs and reduce the need for oversized refrigeration units** — lowering the capital and space required to set up the plant.

Pressure Vessels

Prime Coil & Condensers manufactures a comprehensive range of high-quality pressure vessels for safe storage, efficient refrigerant management and reliable system performance — built with precision, tested for quality and designed for long service life in industrial refrigeration.

Ammonia High / Low Pressure Receivers

Available in 26 standard models, with internal gross volume of 4.4 to 329.1 cu.ft and pump-down capacity of 130 to 9740 lb.

Ammonia Oil Separators

Surge-type separators for vertical mounting in the compressor discharge line, to separate entrained oil from the discharge gas and return it to the crankcase.

Ammonia Gas & Liquid Cooler

Liquid and gas coolers available in ten standard sizes, with a capacity range of 15 to 1000 tons of ammonia refrigeration.

Ammonia Horizontal Accumulators

Made from carbon steel / low-temperature steel shell and end plates. Shells up to 300 mm (12") are welded pipe; above 300 mm, rolled plates.

Ammonia Vertical Accumulators

Made from carbon steel / low-temperature steel shell and end plates. Shells up to 300 mm (12") are welded pipe; above 300 mm, rolled plates.

Dish Ends for Pressure Vessels

We supply different types of dish ends. Many capacities of hydraulic presses at our disposal — fabrication done with high accuracy and quality.

KEY FEATURES

- Carbon steel / low-temperature steel
- Precision fabrication & welding
- Built to international standards
- Designed for Ammonia & Freon systems
- Seamless / welded pipe shells & dished ends
- Hydraulic & pneumatic testing
- Wide range of sizes & capacities
- Long service life & reliable performance

AVAILABLE MATERIALS

Carbon Steel · Low-Temperature Steel

TESTING

All vessels are hydraulically and pneumatically tested as before per standard procedures to ensure leakage-free, reliable performance.

Liquid Ammonia Pump & Liquid Overfeed System

Efficient Ammonia Recirculation Solutions for Industrial Refrigeration

LIQUID AMMONIA PUMP

The liquid ammonia pump is the heart of an overfeed refrigeration system, pumping liquid ammonia throughout the system. It is essential that it runs leak-free and trouble-free for years.

- **No Leakage Design** — handles toxic, explosive, hazardous fluids without leaking.
- **Airtight Construction** — for vacuum service or fluids that react with air.
- **No Shaft Seal** — no mechanical seal, no gland packing.
- **No External Lubrication** — pumped fluid cools and lubricates motor and bearings.
- **Compact Design** — motor and pump are one unit; no alignment or elaborate foundation.
- **Available Motor Ratings** — 2, 3, 5, 7.5 and 10 HP.

LIQUID OVERFEED (RECIRCULATION) SYSTEM

Overfeed systems force excess liquid — mechanically or by gas pressure — through organized-flow evaporators, separated from the vapour and returned to the evaporators. This ensures no oil in the evaporators and no liquid slugs in the compressor, saving power and maintenance.

ADVANTAGES

- Higher plant efficiency
- Hot gas defrosting
- Ease of operation
- Lower discharge pressure
- No accumulators needed
- Proper refrigerant distribution
- Protection of compressors
- Zero pressure drops in lines
- Low maintenance
- Elimination of control valves
- Increased compressor life
- No fluctuation effects

APPLICATIONS

Cold Storages · Dairies · IQF Systems · Blast Freezers · Ice Cream Plants · Refineries & Chemical · Industrial Refrigeration

Shell & Tube Condensers & Chillers

Reliable Heat Transfer Solutions for Industrial Refrigeration

AMMONIA SHELL & TUBE CONDENSER

SHELL & TUBE CHILLER

PRODUCT OVERVIEW

Prime Coil manufactures high-performance Ammonia Shell & Tube Condensers and Chillers for industrial refrigeration, cold storage, food processing, dairy and ice plants. Engineered for maximum heat-transfer efficiency, long service life and easy maintenance — built with high-quality shells, precision tube sheets and seamless tubes to international standards.

KEY FEATURES

- ✓ Capacity Range: 5 TR to 400 TR+
- ✓ Horizontal Shell & Tube Construction
- ✓ Multiple Pass Designs (2, 4, 6 & 8 Pass)
- ✓ Carbon Steel or Stainless Steel Tube Options
- ✓ Suitable for Water, Brine & Glycol Cooling
- ✓ Optimized Heat Transfer Performance
- ✓ Easy Cleaning & Maintenance
- ✓ Robust Industrial Construction
- ✓ Factory Tested for Reliability

APPLICATIONS

- Cold Storages
- Food Processing Plants
- Dairy Industries
- Ice Plants
- Breweries & Beverage Plants
- Chemical & Process Industries
- Ammonia Refrigeration Systems

PRODUCT RANGE

AMMONIA SHELL & TUBE CONDENSERS

- Water-Cooled Condensers
- Horizontal Condensers
- Stainless Steel Tube Condensers

SHELL & TUBE CHILLERS

- Water Chillers
- Brine Chillers
- Glycol Chillers
- Process Cooling Chillers

High Efficiency
Maximum heat transfer with optimized design.

Durable & Reliable
Premium materials for long service life.

Easy Maintenance
Designed for easy access and cleaning.

Tested & Certified
Hydrostatic tested for leak-proof performance.

Advance HVAC Solutions for Cold Storage

Prime Coil & Condensers delivers integrated HVAC systems engineered for controlled-atmosphere and cold-storage environments — combining air handling, humidity control and refrigeration into a single reliable package.


Treated Fresh Air Machines

Heat-recovery wheel based treated fresh air machines (CO_2/heat-recovery units) with Ostberg rotor wheels and Kruger (Thailand) blowers, achieving up to 82 % energy recovery.

Capacity: 1 000 – 10 000 CFM · **Static Pressure:** 50 – 125 mmWG · **Energy Recovery:** 67 % – 82 % · **Voltage:** 415 V 3-phase · **Outer Skin:** PPGI sheet + PUF · **Wheel Dia:** 600 – 1 350 mm

KEY FEATURES

- Precise temperature & humidity control
- Energy-efficient integrated design
- PUF-insulated ducting & panels
- 82 % heat recovery with Ostberg rotors
- Made-in-India CE-certified sensors
- Siemens PLC automation
- Single-source design, build & commissioning
- Custom-engineered for cold-storage layouts
- Reliable, low-maintenance operation


CO_2 Sensors (Made in India)

Indigenously developed, CE-certified NDIR CO_2 sensor transmitters across a wide measuring range, backed by a 2-year replacement warranty.

Range: 0–2 000 to 0–100 000 ppm · **Technology:** NDIR · 24 VDC · **Output:** 0–5 V / 0–20 mA · **Enclosure:** ABS vented IP30 · **Size:** 60 × 60 × 25 mm · **Life:** 15 years


PLC Control Panels

Siemens PLC-based control panels with wide HMI options for cold storages, mushroom plants, pharma and research facilities.

Capacity: Up to 12 chambers / panel · **Controller:** Siemens · **Data Logging:** On-screen & pen-drive · **Log Storage:** Up to 2 years · **Online Access:** Yes, no static IP · **MOC:** MS powder coated


RH / T Sensors (Made in India)

CE-certified indigenous RH/temperature sensor transmitters covering the full humidity and temperature range, with 2-year warranty.

RH Range: 0 – 100 % · **Temp Range:** –10 to 50 °C · **Output:** 4–20 mA both · **Enclosure:** ABS vented IP67 · **Size:** 80 × 50 × 35 mm · **Life:** 10 years


Ultrasonic Humidifier

SS-304 vibrating-disc ultrasonic humidifier producing a fine, cool mist to prevent weight loss in high-value produce — trusted by MNCs such as PepsiCo and ITC.

Misting Capacity: 5 – 40 LPH · **Particle Size:** Less than 5 microns · **Power:** 220 VAC · **MOC:** SS-304 body · **Life:** 5 000 working hours · **Warranty:** 1 year

Evaporators — Low, Medium & High Temperature

High-efficiency finned-coil evaporators built with cutting-edge technology and 3D-modelled compact design for low air draft — connecting directly to your Freon range.

Angular Type Evaporator Unit — Medium & High Temperature

Manufactured with cutting-edge technology and 3D-modelled compact design with aluminium tubes, Prime unit coolers ensure low air draft.

Capacity range: 1.5 kW to 50 kW

Cooling capacity: 20 kW to 120 kW

Fin spacing: 4 mm to 6 mm

Fan configuration: 300 mm to 550 mm

Casing material: AlMg powder coated · GI powder coated & SS-304 casing for dust-free application

- Collared fan outlet for wide air throw
- Individual tubes pressure tested
- Electric & hot gas defrost options
- GI powder coated & SS-304 casing

APPLICATIONS

Mushroom Plant · Banana Ripening · Chocolate · Pharmaceutical · Sea Foods · Flowers · Meat & Poultry · Fruit & Vegetables · Dairy

Slim Line Dual Discharge Unit — Low Temperature

Manufactured with cutting-edge technology and 3D-modelled compact design with copper tubes, Prime slim line unit coolers ensure low air draft.

Cooling capacity: 10 kW to 50 kW

Tube material: Copper tubes

Defrost: Electric & hot gas

Fin spacing: 4 mm to 6 mm

Fan configuration: 300 mm to 550 mm

Casing material: AlMg / GI powder coated & SS-304 casing

- Collared fan outlet for wide air throw
- Tubes expansion through bullets
- Fin spacing available 4 mm to 6 mm
- Dual discharge for uniform air distribution
- Slim profile for low-headroom cold rooms

APPLICATIONS

Ice Cream · Pharmaceuticals · Flowers · Dairy · Meat & Poultry · Sea Foods · Frozen Foods · Cold Chain

Blast Freezers, Chillers & Monoblock Units

Built for extreme cold · Advanced fin design · Robust cooling capacities

Blast Freezer & Chillers — Freon Evaporator Unit

Built for extreme cold, featuring advanced fin designs and robust cooling capacities for diverse applications.

- ✓ Model available with 2, 4, 6 & 8 fans
- ✓ Fin spacing 2 mm to 12 mm
- ✓ Chiller capacity 25–120 kW · Freezer 23–100 kW
- ✓ Floor or ceiling mounted
- ✓ GI powder coated casing
- ✓ Temperature range –5°C to –45°C
- ✓ Fan diameter 630–800 mm
- ✓ Corrugated fin, low pressure drop · wing & multi-wing fans

APPLICATIONS Curd · Ice Cream · Meat & Poultry · Dairy · Chocolates

Monoblock Units

Versatile, easy to install and rigorously tested — ideal for industries seeking efficient temperature control solutions.

- ✓ Temperature range from 5°C to –25°C
- ✓ Copper used for efficient heat transfer
- ✓ Completely temperature tested (not just factory assembled)
- ✓ AlMg coated & SS 304 casing for rust-free operation
- ✓ Air and electric defrost options available

APPLICATIONS Ice Cream · Meat & Poultry · Dairy · Fruits & Vegetables · Sea Foods · Chocolate · Flowers · Pharma

Condensing Units

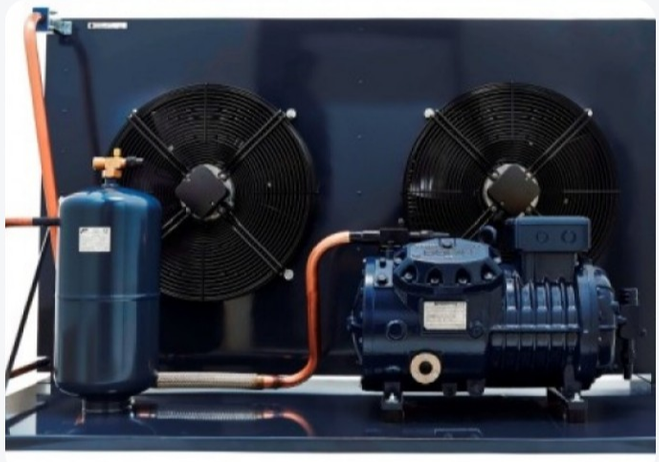
A complete, diversified range for refrigeration & air-conditioning

WATER-COOLED CONDENSING UNITS

Prime offers a complete and diversified range of condensing units for refrigeration and air-conditioning — a wide selection of **semi-hermetic models**, built for use with HCFC and HFC refrigerants, and engineered for reliable, energy-efficient operation.

AIR-COOLED CONDENSING UNITS

Complete, ready-to-install air-cooled condensing units built around Dorin semi-hermetic compressors — twin high-airflow motor-fans (up to 3,930 m^3/h), integrated liquid receiver and low sound levels (from 48 dBA). Compact and factory-tested, they deliver reliable performance across HFC and natural-refrigerant applications.



APPLICATIONS

Commercial Refrigeration
Malls, supermarkets & logistics.

Railway Air Conditioning
Carriages, cargo & cockpits.

Industrial Refrigeration
Food processing & storage.

Marine Applications
Naval AC & fish storage.

Ice-Cream Industry
Production & storage.

Distribution
Technical refrigeration & AC.

Industrial Chillers & Heat Pumps

Precise process cooling & efficient heating for demanding applications

AIR COOLED INDUSTRIAL CHILLERS

Air-cooled **screw & scroll chillers** from **10 kW to 3000 kW**, temperature range +40°C to –40°C — affordable, durable & heavy-duty.

WATER COOLED INDUSTRIAL CHILLERS

Water-cooled **screw & scroll chillers** with shell-and-tube condensers — compact footprint, quiet operation and high efficiency for process cooling.

HEAT PUMP — DOMESTIC 60°C

A high-efficiency system delivering both heating & cooling. Available **6–35 kW (220V / 400V)** — for homes, villas, gyms, hospitals & commercial spaces.

HEAT PUMP

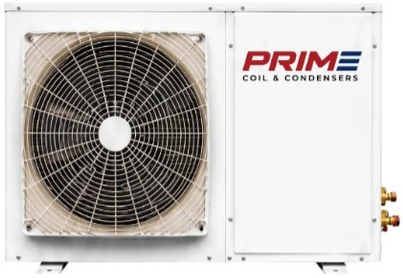
A high-efficiency system that transfers heat using a refrigeration cycle — **delivering both heating and cooling** with up to 70% savings on water heating.

Reciprocating & Scroll Condensing Outdoor Units

Suitable for Small Cold Rooms

FREON

A complete outdoor condensing-unit range, from 2.5 TR up to 10 TR



Up to 2.5 TR

2.5 TR to 4 TR

5 TR (Axial Fan)

5 TR (Plastic Fan Body)

10 TR Condensing Unit

Reciprocating Series

Chiller Application

Freezing Application

Shell & Tube Condenser & Evaporator

Efficient heat-exchange solutions for Freon refrigeration systems

SHELL & TUBE CONDENSER

SHELL & TUBE EVAPORATOR

High Heat-Transfer Efficiency

Advanced design for maximum performance and energy savings.

Suitable for Freon Refrigerants

R-22, R-134a, R-404A, R-407C, R-410A, R-507 & others.

Compact & Robust Construction

Built for reliability and long service life in demanding conditions.

Enhanced Heat-Transfer Design

Optimized copper tubes for excellent heat transfer and performance.

Easy Tube Cleaning & Maintenance

Designed for quick inspection, cleaning and low maintenance.

Custom-Built Solutions

Tailor-made to meet your specific system requirements.

APPLICATIONS

- Water Chilling Systems
- HVAC Plants
- Process Cooling
- Plastic Industry
- Pharmaceutical
- Food & Beverage
- Cold & Freezer Rooms
- Commercial Refrigeration

CAPACITY RANGE	CONFIGURATION	BUILT FOR
3 kW – 1000+ kW	Horizontal & Vertical	Long Service Life

OTHER PRODUCTS

Modular Cold Rooms

Standard preservation chambers built on site to your exact specification

Modular Cold Rooms are standard preservation chambers built at site to desired dimensions and cooling specifications.

Prime's Modular Cold Rooms use world-class **PUF-insulated panels** manufactured at our state-of-the-art facilities, paired with refrigeration units from Prime and trusted global partners — for totally reliable cooling and preservation.

Built by experts who understand every aspect of preservation, with deep domain knowledge that helps us design efficient, reliable and precise cold-room solutions for your exact need.

PPGL Sheet / RMP / RAL-9002 with top coat 25 microns & back coat 7 micron.

PUF-Insulated Panels
World-class, in-house manufactured.
★ Panel thickness: 60 mm to 150 mm.

Built On Site
To your exact dimensions.

Reliable Cooling
Precise, energy-efficient preservation.

INDUSTRIES WE SERVE

- Hospitality
- Dairy
- Horticulture
- Medicare
- Pharmaceutical
- Seafood
- Food Processing
- Specialty Applications
- Cold Storage

Cold Chain Doors

Manual / Automatic · For Chiller, Freezer & Blast Freezer

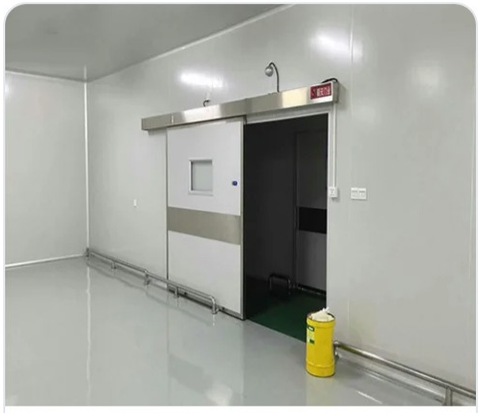
The door slides on an overhead track of high-quality aluminium extrusion with indentation for 3D movement to ensure complete hermetic sealing while closing. A four-side rubber sealing gasket reduces cooling loss and holds precise temperature. Double-leaf sliding doors are available with perfect sealing.

Single-Leaf Sliding Door

Manual or automatic; hermetic 45° seal.

Double-Leaf Sliding Door

Wide openings with perfect sealing.



Automatic Sliding Door

Sensor-operated, hands-free access.

Hinged Door

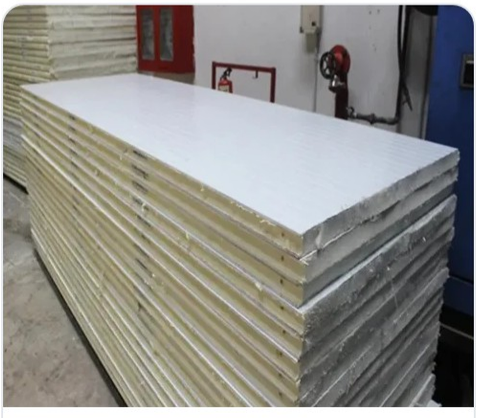
Insulated swing door for cold rooms.

Blast Freezer Door

Heavy-duty, heated frame to –40°C.

Display Glass Door

Glazed display door for merchandising.



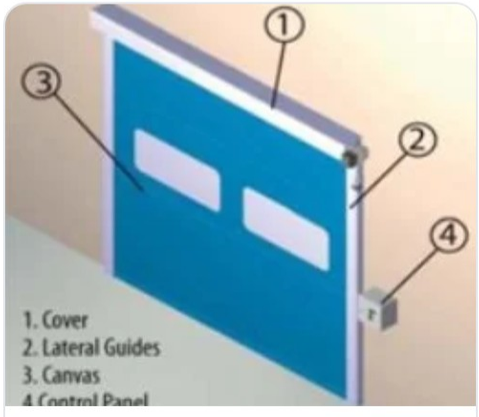
Cold Room / Storage Panels

Insulated PUF/PIR panels for cold rooms.

★ Panel thickness: 60 mm to 150 mm.

Insulated Hinged Doors

Thermally-broken swing doors, tight seal.



Rolling High-Speed Doors

Fast roll-up doors to cut cold loss.

END-TO-END DELIVERY

Refrigeration Plant Turnkey Solutions

Prime Coil & Condensers Pvt. Ltd. undertakes complete turnkey refrigeration projects — from system design, equipment selection and manufacturing to installation, testing and commissioning. We deliver reliable ammonia and Freon-based solutions for cold storage, food processing, dairy, pharma and industrial cooling applications.

1. **System Design**
2. **Equipment Selection**
3. **Manufacturing**
4. **Installation**
5. **Testing & Commissioning**

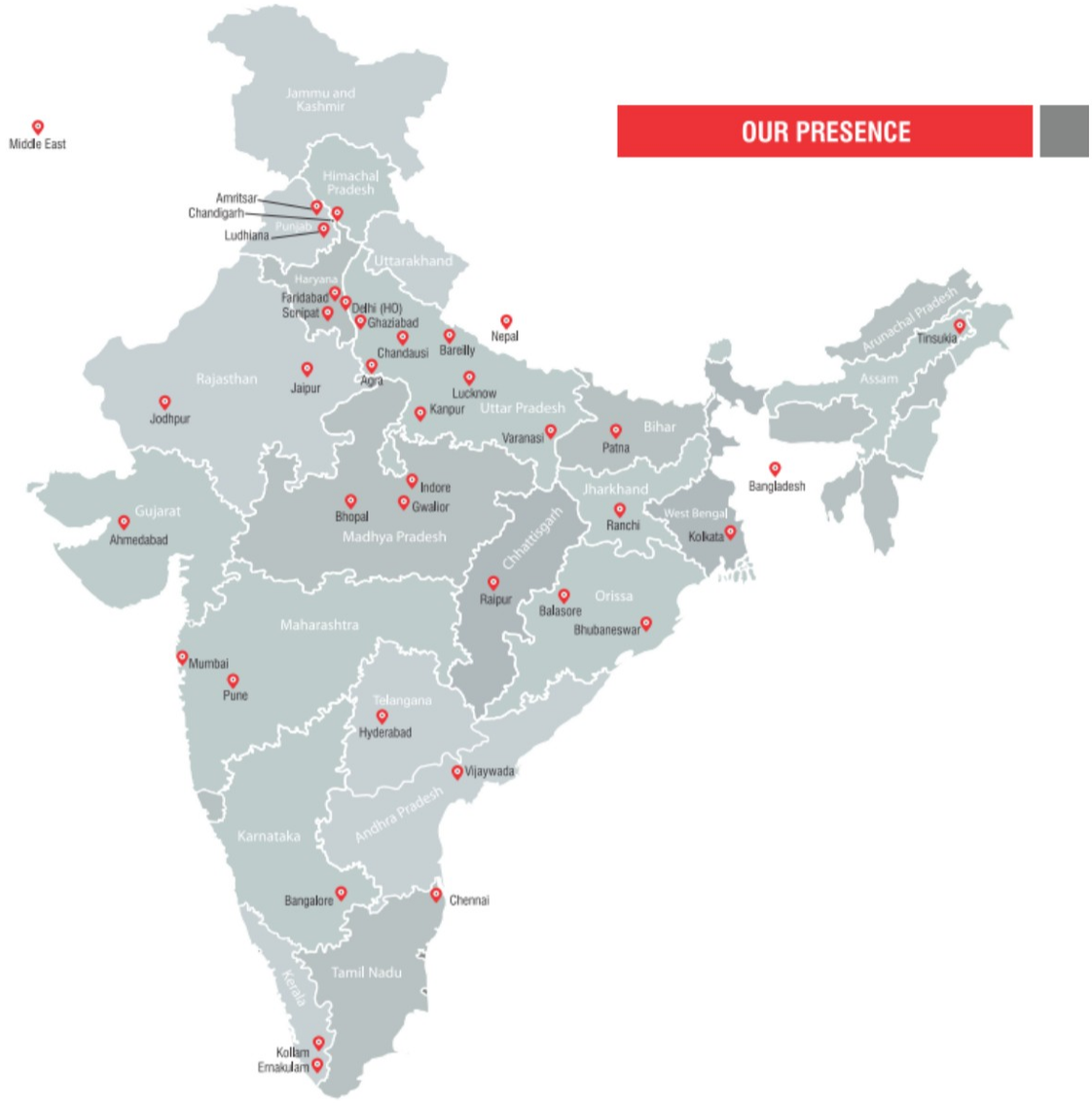
APPLICATIONS SERVED

- Cold Storage
- Food Processing
- Dairy
- Pharmaceutical
- Industrial Cooling

WHERE TO FIND US

Our Presence

Serving customers across India, the Middle East and neighbouring markets — with complete industrial refrigeration solutions engineered, manufactured and supported in-house.



GET IN TOUCH

Prime Coil & Condensers Pvt. Ltd.

Reg. Address: 22/4A, Prem Nagar, Jail Road, New Delhi – 110058, India
Corporate Address: B-67, 2nd Floor, Front Portion, Mayapuri Industrial Area, Phase – 1, New Delhi – 110064
Email: info@primecoilcondensers.com

www.primecoilcondensers.com

Neeraj Checker

☎ +91 98115 38277

✉ neeraj@primecoilcondensers.com

Vikram Luthra

☎ +91 98102 04792

✉ vikram@primecoilcondensers.com