

## Brine/ Water Chilling Plants

We offer a wide range of refrigeration, air conditioning and ventilation systems, which are available in different specifications and dimensions. These are offered at industry leading prices and can also be customized as per the specific requirement of our customers.

### Salient Features:

- Compact Design
- Fully Automatic
- High Efficiency Condenser
- Air/water Cooled Condenser
- Thermostatic Exp. Device
- Automatic Temperature Controller

Indranil Chilling Plant is being manufactured from 3 TR to 200 TR capacity in compact design covering minimum floor area. Our Chilling plants have different features as below:

- **Indranil Packaged Type Chilling Plants** are carefully designed for optimum performance, long life and easy serviceability. Painsstaking engineering goes into the design, selection of materials, manufacturing process, assembling and testing to ensure correct control performance, equipment design in compact and uncluttered, with every part easily accessible for servicing.
- **Low Operating Cost** - Scientifically designed cooling system combined with high efficiency condenser, chiller, compressor, expansion valve provide more efficient water cooling with consequent reduction in operating cost.
- **Low Maintenance Cost** - Quality that minimizes the maintenance. Motor requires



lubrication very often. In case when you require maintenance our nearby service engineers are always eager to attend maintenance problem.

Single source responsibility covering designing, manufacturing, installation and servicing by our experienced engineers, always standing by to attend post installation problems.

### **Salient Features of Water Cooled Chillers**

- Package water chillers are compact skid mounted systems, ready to install.
- water Chillers are Fully automatic with tried & tested controls.
- Indranil water Chillers ensure Quick chilling with plate type evaporator / shell & tube evaporators..
- Water chillers ensure Energy saving with high efficiency condensers .
- Load testing as per ASHRAE standards before dispatch.
- Guaranteed cooling capacity of Water chillers at rated parameters.
- Specific design to meet customer requirement also available in addition to standard models

### **Applications of Water Cooled Chillers**

- Chemical/ Pharmaceutical process.
- Plastic Processing : Injection Moulding, Blow Moulding, Extruders, PVC Pipes, Woven Sacks, PP Film Lamination etc.
- Calendars ( Plastic & Rubber ).
- Milk and Dairy / Pasteurising, Food Products.
- Lubricants / Oil Cooling and Dewaxing of Oils
- Plating, Anodising and Induction heat treatment

- Pulp and Paper Processing.
- Printing Ink / Paper Waxing cooling.
- Bleaching / Dyeing Industry.
- EDM Machine cooling.
- Concrete curing.
- Comfort cooling.

#### **The Fine Quality Component Features**

- Hermetic/Semi hermetic sealed/ reciprocating compressors with internal over load protection.
- Air cooled condenser with copper tubes and Aluminum fins.
- Plate type evaporator for high efficiency.
- Stainless Steel storage tank with external insulation to prevent vapor ingress and condensation.
- Refrigerant circuit consists of imported filter dryer, thermostatic expansion valve/capillary, sight glass, accumulator.
- Controls with safety devices - high and low refrigerant switches, low water level, flow switch.
- All Refrigerant tubing is high grade copper.
- Digital temperature indicator controller for precise temperature controlling.
- Audio visual indication for controls and safeties.
- Pumps suitable for high flow and pressure.
- Automatic water level control system for all models.
- Trolley mounting- optional.



## Industrial Screw Chillers

We manufacture Screw Chillers keeping in mind the best quality standards. These Chillers are energy efficient and robust in construction and are developed with latest technology which includes R134a optimized screw compressor, highly efficient DX cooler and air cooled condenser. The latest generation, highly efficient copper tubes are incorporated in the cooler. Electronic expansion valves and the advanced MCS Magnum Controller are also incorporated. The units have a very low input kW/TR and are tested in our state-of-the-art test lab to validate th performance.

### Features:

- Highly efficient and low noise compressors
- Stepless capacity control, from 25% to 100% making it suitable for varying load applications and efficient under part load conditions.
- Refrigerant liquid to liquid type heat exchanger provided for Economizer system. Liquid refrigerant is sub-cooled to enhance the capacity thereby reducing power consumption and enhancing the Coefficient of Performance.
- Oil cooler and liquid injection for high ambient operation
- Shell and tube evaporator has been built using imported, doubly enhanced and highly efficient finned copper tubes.

### Types of Screw Chillers:

- Air Cooled Screw Chillers
- Water Cooled Screw Chillers.

[Request a Quote](#)

## Ammonia Base Refrigeration Plant

Indranil Ammonia Refrigeration Plants are well designed, manufacturing with minute quality control installed with supervision by our experienced engineers. Our aim is for trouble free operation of plant. Keep peace of mind of our valuables clients by using Indranil Refrigeration Plants. Indranil Ammonia Refrigeration Plants are well designed, manufacturing with minute quality control installed with supervision by our experienced engineers. Our aim is for trouble free operation of plant. Keep peace of mind of our valuables clients by using Indranil refrigeration plants. All the major parts like oil separator, condensers, ICE bank tank system & TBT coil, receiver accumulator, air cooling unit are manufactured in house. Our ammonia refrigeration plants have non cfc ammonia gas low running cost and easy maintenance, are suitable for following uses:-

- Water Chilling Plant
- Brine Chilling Plant
- Cold Storage
- Deep Freezing Chamber
- Gas Liquification Plants
- Ice Plant
- Freezing Complex

Ammonia Refrigeration plants are normally used for milk chilling, Cold Storage, chemical storage, deep freezing, Ice freezing, liquification, CO<sub>2</sub> liquification freezing complex, Fisheries





## Air Cooled Chillers

We are the market leaders in designing and manufacturing a wide range of air cooled chillers for various industrial applications. We design and manufacture these chillers upon the basis of advanced technology and adhering with the latest quality standards. Each component of these chillers is accurately designed from finest raw materials in order to deliver an unmatched performance.

We manufacture our air cooled water chillers from superior quality compressors and light weight components with higher durability. Tested under dynamic load conditions, these air cooled chillers are easy to install and are made of wire frame structure. Made of corrosion resistant non-ferrous material, these air cooled chillers have compact sizes making them suitable for installing at locations with less floor space. Having air cooled condensers; these are provided with both Imported and Indigenous Compressor. Our range of air cooled chillers undergoes strict quality tests before they are dispatched. These chillers are available in various models based on water flow rate, tank and cooling capacities.

A new generation of Air Cooled Screw Chillers with refrigerant R134a are being added to the present range of R22-Air Cooled Chillers. These Chillers are energy efficient and robust in construction and are developed with latest technology which includes R134a optimized screw compressor, highly efficient DX cooler and air cooled condenser. The latest generation, highly efficient copper tubes are incorporated in the cooler. Electronic expansion valves and the advanced MCS Magnum Controller are also incorporated. The units have a very low input kW/TR and are tested



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[Airtech cooling process \( P\) ltd – indiamart .com](http://airtechcoolingprocess.com)  
[www.mellcon.com](http://www.mellcon.com) ( only uses & application part.

### **Air Handling Units (AHUs)**

The air handling units (AHU), we offer are integrated with technically advanced features. These flawlessly designed AHUs provide even distribution of cool & dry air in order to facilitate the efficient production and storage of pharmaceutical products.

These air handling units find application in following industries:

**Hospitals**

**Laboratories**

**Chemical industry**

**Paper industry**

**Jute industry**

**Food industry**

**Textile industry**

## **Tile industry**

### **Features:**

**Unit layout and component spacing**

**Double-sloped drain tray**

**Perfect sizing units for weight & limited available space**

**Aluminum extrusions for providing high strength to the structure**

**Refer Drycooled equipments pvt.ltd. Indiamart.com**

**Photo & write up attached with paint shop.**

**Heading : Brine / Water chilling plant , Cold room chamber , Cold Storage, Air Handling system**

