

Industrial Chillers



Air Cooled Chiller

Water Cooled Chiller

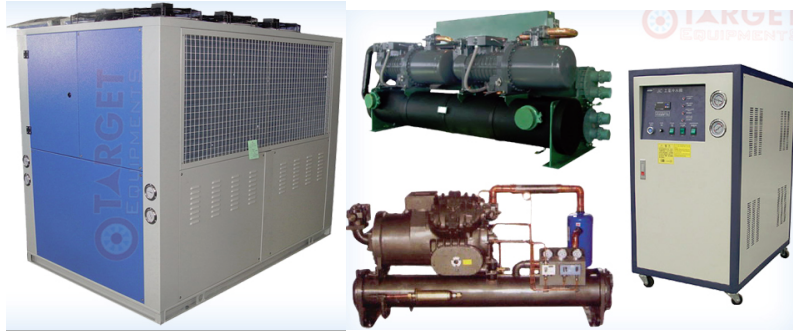
Target equipments industrial chillier division manufacturing includes of Air cooled, Water cooled, and Brine cooled, Glycol, sophisticated and cfc-free chillers for application such as Air conditioners, Dairies, Solvent Plant, oil, rubber, Automobile, Petrochemical, plastic, carbon industries and Malt plants.

SPECIAL FEATURES	Long life, Upgrading feature, compact and unflustered equipment, precision engineering.
TEMPERATURE	-40°C to +20°C
CAPACITY	1 TR to 250 TR
TYPES	Air cooled, Water cooled, and Brine cooled, Glycol, sophisticated and cfc-free chillers.
APPLICATION	Air conditioners, Dairies, Solvent Plant, oil, rubber, Automobile, Petrochemical, plastic, carbon industries and Malt plants

Specification

Model	TECH-1 TECHW1	TECH-2 TECHW2	TECH-3 TECHW3	TECH-5 TECHW5	TECH-7.5 TECHW7.5	TECH-10 TECHW10	TECH-15 TECHW15	TECH-20 TECHW20	TECH-25 TECHW25	TECH-30 TECHW30
Refrigeration Capacity	1 TR	2 TR	3 TR	5 TR	7.5 TR	10 TR	15 TR	20 TR	25 TR	30 TR
Chilled Water Flow (LPH)	750	1500	2250	3750	5625	7500	11250	15000	18750	22500
Temperature Range	4° – 20° C									
Power Supply	415V 50 Hz AC 3 Ph									
Compressor	Reciprocating / Scroll / Screw / Smi Hermatic / Open Type									
Chiller	Dx-Type									
Condenser	Air/Water Cooled									

Air Cooled Chiller



Chilled water is used to cool and dehumidify air in mid to large size commercial, industrial facilities like Water chillers can be either water cooled chiller or air cooled chiller Whenever a chiller's heat rejection can be used for a productive purpose, in addition to the cooling function.

Water Cooled Chillers : Water cooled chillers are typically indoor installation and operation, it's are cooled by a separate condenser water loop and connected to outdoor cooling towers to expel heat to the atmosphere.

Air Cooled Chiller: Air Cooled chillers are intended for outdoor installation and operation. Air cooled machines are directly cooled by ambient air being mechanically circulated directly through the machine's condenser coil to expel heat to the atmosphere.

Quality Control:

Our chillers are compact design covering minimum floor area. low cost maintenance, break throw technology and long life serviceability Chilled water temperature can range from 1.5°C to 7°C We manufacturing chillers range from 0.5 TR to 250 TR

Function Of Industrial Chiller

The industrial chillers are normally packaged, complete and closed-loop systems Include the condenser, pumps, chiller, temperature control systems and associated valves.

Circulates water or any other coolant at constant pressure and temperature. The coolant flows from the chiller to the point of application and back again.

Refrigeration is used as the cooling process in most of the industrial chillers. Some depend on air or water that flows over the coils containing a specific coolant in order to regulate the temperature.

The coolant that is used most commonly in process chillers is water, though coolant mixtures are employed frequently. The latest development in industrial water chillers is the utilization of water cooling rather than air cooling.

The condenser cools the refrigerant with water and not air.

A cooling tower cools the air, thus reducing the need for energy as well as the chiller size. This is because of the condenser's small surface area and the lack of cooling fans which minimizes the noise levels too.

Industry Chiller Application

Chilled water or other liquid from the chiller is pumped through process or laboratory equipment. Industrial chillers are used for controlled cooling of products, mechanisms and factory machinery in a wide range of industries like.

Plastic industry in injection and blow moulding,

Metal working cutting oils, welding equipment,

Die-casting and machine tooling, chemical processing,

Pharmaceutical formulation,

Food and beverage processing,

Paper and cement processing,

Vacuum systems

X-ray diffraction

Power supplies and power generation stations, analytical equipment, compressed air and gas cooling.

Target chiller used to cool high-heat specialized items such as MRI machines and lasers, and in hospitals, hotels and campuses.

The chillers for industrial applications can be centralized,

Decentral chillers are usually small in size (cooling capacity), usually from 0.2 tons to 10 tons. Central chillers generally have capacities ranging from 10 tons to 100

Specifications

When determining industrial chiller specifications, the following aspects need to be taken into consideration:

Source of power

Chiller rating

Capacity of the evaporator and condenser

Cooling capacity of the chiller

Type of the evaporator

Ambient temperature

Material of evaporator and condenser

Type of fan

Expectations of efficiency

Materials of plumbing and piping

Limits of noise level

Type of refrigerant

Water Cooled Chiller



Water Cooled Chillers : Water cooled chillers are typically indoor installation and operation, it's are cooled by a separate condenser water loop and connected to outdoor cooling towers to expel heat to the atmosphere.

Quality Control:

Our chillers are compact design covering minimum floor area. low cost maintenance, break throw technology and long life serviceability Chilled water temperature can range from 1.5°C to 7°C We manufacturing chillers range from 0.5 TR to 250 TR

Function Of Water Cooled Chiller

The Water cooled chillers are normally packaged, complete and closed-loop systems Include the condenser, pumps, chiller, temperature control systems and associated valves.

Circulates water or any other coolant at constant pressure and temperature. The coolant flows from the chiller to the point of application and back again.

Refrigeration is used as the cooling process in most of the industrial chillers. Some depend on air or water that flows over the coils containing a specific coolant in order to regulate the temperature.

The coolant that is used most commonly in process chillers is water, though coolant mixtures are employed frequently. The latest development in industrial water chillers is the utilization of water cooling rather than air cooling.

The condenser cools the refrigerant with water and not air.

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Chiller rating

Capacity of the evaporator and condenser

Cooling capacity of the chiller

Type of the evaporator

Ambient temperature

Material of evaporator and condenser

Type of fan

Expectations of efficiency

Materials of plumbing and piping

Limits of noise level

Number of compressors and their type

Number of circuits

Fluid leaving temperature

Coolant requirements

Type of refrigerant