chilltech systems

ISO Certified 9001 : 2008

We Make Eco-Friendly Chilling Technology

INDUSTRIAL **CHILLING** PLANT

Chiller Application

- Textile, Anodizing, Ceramic industry
- Paper and cement processing industry
- Food and beverage processing industry
- Power supplies plant and power generation stations
- Used in the plastic industry in injection and blow molding
- Also used to cool high-heat specialized items in hospitals, hotels and campuses, shopping mall etc...
- Pharmaceutical formulation & medicine manufacturing research industry
- Foundry metal working cutting oils, welding equipment, die-casting and machine tooling, chemical processing industry

chilltech systems

Chilling Plant

Chilling plant used for protection to your voluble process equipment such as laser machine, Spot welders, injection molding equipment and other application. A chilling plant commonly represents a small fraction of the processing equipment. Yet it provides a solid protection of your investment

Compressor

We are dealing with different type of compressor, which are mention below:

1) **Reciprocating Compressor :**
   Hermetic
   Semi - Hermetic
   Capacity : 2 TR to Client Requirement

2) **Scroll Compressor:**
   Hermetic - Scroll
   Capacity : 5 TR to Client Requirement

3) **Screw Compressor :**
   Semi - Hermetic Screw
   Capacity : 30 TR to Client Requirement

Industrial Chilling Plant

Refrigerant Operation

R-22, 134a, 404a, 407c, 410 Eco Friendly.

Evaporator Option

We are mainly dealing with those kind of evaporators which are simple & compact in design, low power consumable and high heat transferable.

1) Plate Type Heat Exchanger : It is a compact design with low power consumption and available in wide variey of the material.

   A) Brazed Type PHE B) Gasket Type PHE

2) Shell and Tube Heat Exchanger: It has less expensive and used in system with higher operating temp. and pressure.

3) Coil in Tank Type: Coil-in-Tank Chillers are Custom Designed Systems and can be offered

4) Tube-In-Tube Type: Compact heat exchanger with superior anti-fouling characteristics. Water flows through the inner tube while refrigerant flows in the annulus between the inner and outer tubes.

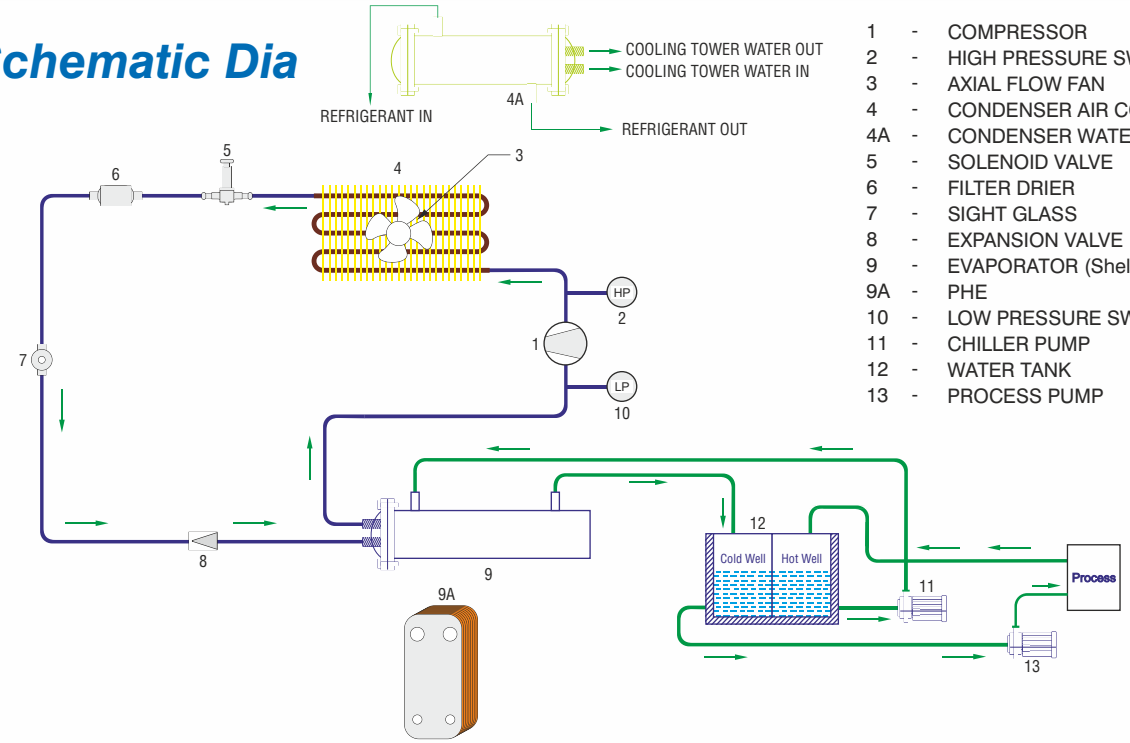
5) Dimple Plate: it gives high efficiency in low cost, Long lasting, Maintenance Free, mainly usage in chilled water consumable products. Like food industries.

Condenser

We use two type of condenser for proper condensation of refrigerant & effective heat rejection to the system:

1) **Water Cooled Condenser :** It provide high amount of heat rejection capacity along with the less power Consumption.
2) **Air-cooled condensers :** It uses air to absorb heat rejected by the system and also used in locations where water is difficult to use.

Schematic Dia



1 - COMPRESSOR
2 - HIGH PRESSURE SWITCH
3 - AXIAL FLOW FAN
4 - CONDENSER AIR COOLED
4A - CONDENSER WATER COOLED
5 - SOLENOID VALVE
6 - FILTER DRIER
7 - SIGHT GLASS
8 - EXPANSION VALVE
9 - EVAPORATOR (Shell & Tube)
9A - PHE
10 - LOW PRESSURE SWITCH
11 - CHILLER PUMP
12 - WATER TANK
13 - PROCESS PUMP

CHILLER TECHNICAL SHEET

SR. NO.	MODEL NO.	TR. CAPACITY	Nominal Condition Cap. Flow Rate (DT=5) In L.P.H.	COMPRESSOR TYPE			CONEECTED PWR KW		CONDENSOR TYPE		EVAPORATOR TYPE		REFRIGERANT			CONDENSOR WATER FLOW RATE
				Recipr-ocating Type	Scroll Type	Screw Type	Air Cooled	Water Cooled	Air Cooled	Water Cooled	B-PHE	Shell & Tube	R-22	R-134a	R-404a 407c 410a	WATER COOLED (LPM)
1	CTS-30	2	800	✓	OP	×	1.63	x	✓	×	OP	NA	✓	OP	OP	×
2	CTS-45	3	1400	✓	OP	×	2.9	x	✓	×	OP	NA	✓	OP	OP	×
3	CTS-75	5	2600	✓	OP	×	4.99	3.7	✓	OP	OP	OP	✓	OP	OP	51
4	CTS-112	7.5	4000	OP	✓	×	7.3	5.5	✓	OP	OP	OP	✓	OP	OP	80
5	CTS o 150	10	5500	OP	✓	×	9.8	7.2	✓	OP	OP	✓	✓	OP	OP	107
6	CTS-187	12.5	5900	OP	✓	×	11.05	8.32	✓	OP	OP	✓	✓	OP	OP	119
7	CTS-225	15	6900	OP	✓	×	13.2	9.98	OP	OP	OP	✓	✓	OP	OP	137
8	CTS-300	20	9200	OP	✓	×	17.5	13.0	OP	✓	OP	✓	✓	OP	OP	182
9	CTS-375	25	11500	OP	✓	×	21.6	16.4	OP	✓	OP	✓	✓	OP	OP	230
10	CTS o 450	30	14200	OP	✓	✓	26.2	19.8	OP	✓	OP	✓	✓	OP	OP	281
11	CTS-600	40	18400	OP	✓	✓	35.0	26.0	OP	✓	OP	✓	✓	OP	OP	364
12	CTS-750	50	23000	OP	✓	✓	43.2	32.8	OP	✓	OP	✓	✓	✓	OP	460
13	CTS o 900	60	28400	OP	✓	✓	52.4	39.6	OP	✓	OP	✓	OP	✓	OP	562
14	CTS o 1050	70	37600	OP	✓	✓	64.6	56.3	OP	✓	OP	✓	OP	✓	OP	703
15	CTS · 1200	80	36800	OP	✓	✓	70.0	52.0	OP	✓	OP	✓	OP	✓	OP	728
16	CTS-1350	90	42600	OP	✓	✓	78.6	59.4	OP	✓	OP	✓	OP	✓	OP	843
17	CTS o 1500	100	46000	OP	✓	✓	86.4	65.6	OP	✓	OP	✓	OP	✓	OP	920
18	CTS-1800	120	56800	OP	✓	✓	104.8	79.2	OP	✓	OP	✓	OP	✓	OP	1124
19	CTS-22500	150	69000	OP	✓	✓	129.6	98.4	OP	✓	OP	✓	OP	✓	OP	1380

op - Optional, ✓ - Standard, × - Not Available

Condensing Unit

Air Cooled and Water Cooled

FEATURES

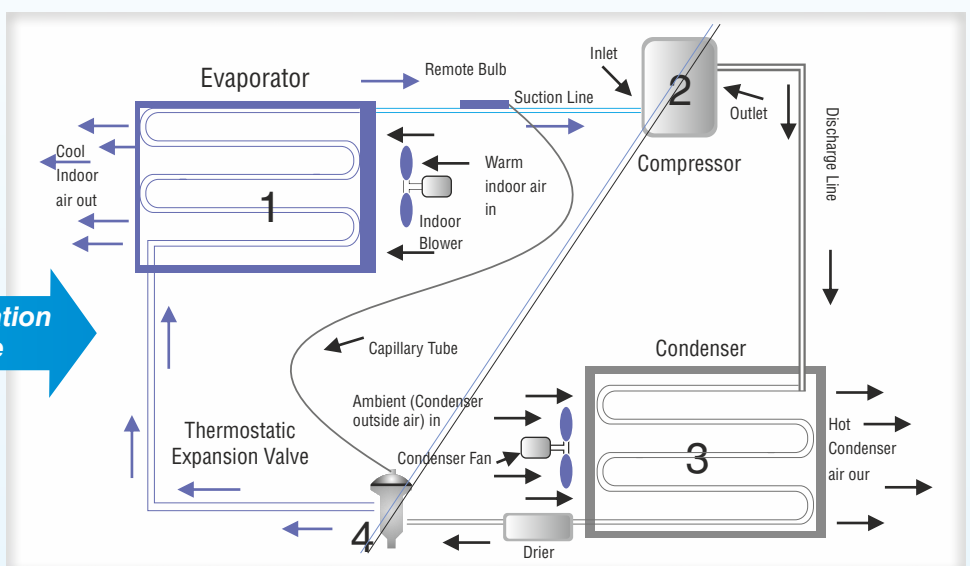
- High cooling with low power consumption
- Designed for high ambient condition up to 55°c
- Condensing coil with inner grooved copper tubes & aluminum fins
- Efficient fans with external motors for single phase and three phase
- High & low pressure cut-out including mounting brackets, wired to terminal strip
- Large size filter drier, moisture indicator, solenoid valve, oil separator and accumulator
- Shell & tube type condenser with high cooling and capacity for high ambient condition

Evaporator Unit

FEATURES

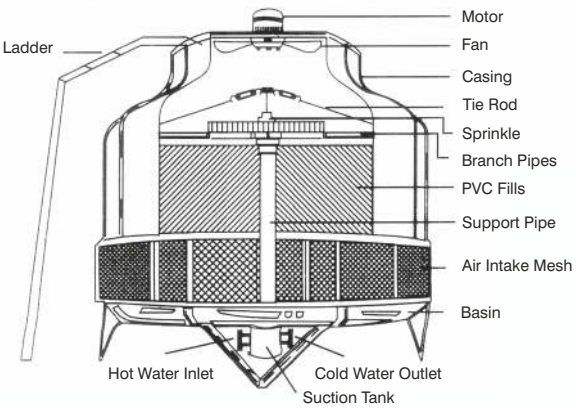
- **Fan** - High reliability, lower temperature resistance and low noise external rotor fans.
- **Coil** - High efficiency heat exchange with in line tube system for minimum loss of air flow between fans and large surface area for better cooling.
- **Defrost** - Use electrical heating stainless steel pipe, high leak proofness at the and anti-electrical leakage and long life.
- **Unit Body** - Aluminium, PU type Powder Coated, Corrosion resistant and nice appearance body.
- **Maintenance** - Compact, adjustable & easy open able side panels for easy installation.

Refrigeration Cycle



Cooling Tower Round Type

ChillTech Manufactures FRP round bottle shape cooling towers based onlnduced draught counter flow design. These cooling towers are highly efficient and easy to install any where.

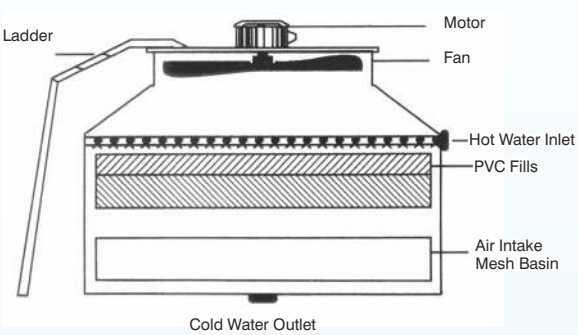


FEATURES :

- Light Weight, Corrosion Proof
- Rotary Water Distribution System
- Axial Flow ID Fan Direct Driven
- Minimum Water Losses, Maximum Efficiency
- Designed to withstand high Intel temperature & wind pressure

Cooling Tower Square Type

Chilltech Manufacturers cuboid and Rectangular shape FRP cooling towers based on Induced Draught Counter Flow Design with static water distribution system through spray nozzles. These cooling towers are very efficient and economical in terms of saving Electrical energy



FEATURES :

- Light Weight, Corrosion Proof
- Available in Single and Multiple Cells
- Axial Flower ID Fan Direct Driven
- Minimum Water Losses, Maximum Efficiency

➔ The Nominal TR capacity is based on water flow rate 4 USGPM / TR at Inlet Temp. 97.5° Outlet Temp 90° F W.B.T. 83° F

- Coolings Tower does not include pumps, valves, pipes & any civil or electrical works.

Air Handling Unit

Being one of the leading manufacturers and suppliers of this highly commendable Air Handling Unit, we engage in using of the finest raw materials and modern machines. Owing to this, the offered product is characterized by a longer functional life and a commendable resistance to corrosion. Further, we abide by the set industry norms for the reason of quality standardization.

Features : ● User-friendly
● Impeccable strength ● High durability

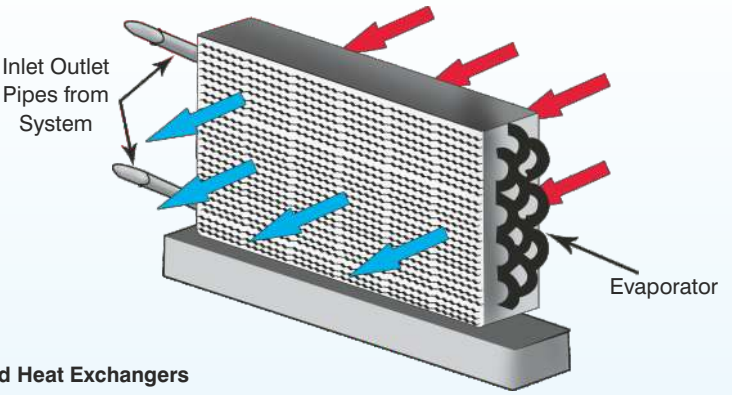
Specification : Capacity: 300 CFM to 40,000 CFM

Heat Exchangers

Offered in the market at the most reasonable rate possible, the offered Heat Exchangers are known to be highly appreciated and asked for in the market. Manufactured in accordance with the set industry norms and guidelines, its quality never deteriorates. Further, its strength, performance and service life are widely acclaimed.

Features :
● Impeccable strength ● Easy operations and maintenance ● High durability

Water Cooled Heat Exchangers



Air Cooled Heat Exchangers












Our Clients


chilltech systems

1426, HSIDC Rai, Sonipat - 131029, Haryana, India
Mobile : +(91)-9215181800, +(91)-9215181819 |Toll Free no. : 1800 270 1811
E-mail : chilltechsystems@gmail.com, sales@chilltechsystems.com | website : www.chilltechsystems.com, www.chillermanufacturer.in