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15-Ton Chiller Machine Specification

Air Cooled Chiller of 15 TR capacity, with R – 22 as refrigerant with semi-hermetic SCOLL compressor from COPLAND or DANFOSS. All the other components are being imported or used from the world's best company from **USA and Europe.**

The scroll chiller is controlled with the following salient features:

- 1) Temperature sensing of chilled water in and out, evaporating and ambient temperature.
- 2) Pressure transducer based low and high pressure alarms.
- 3) Compressor : **Semi-Hermetic Scroll**
- 4) Expansion valve : **Thermostatic expansion valve** used which is interlocked
- 5) With the PID based temperature controller
- 6) Capacity Control : Fully automatic, seamless from 25% to 100%
- 7) Motor Protection : Electronic Thermistor based, with heat sensor embedded In the stator coil.
- 8) Reverse Rotation Protection : In-built into the chiller.
- 9) Oil level protection : In-built into the compressor.
- 10) Compressor start / stop : At no Load

TECHNICAL SPECIFICATIONS (15 TR, AIR COOLED GLYCOL CHILLER)

A) CHILLER

- 1) **SYSTEM** : INDUSTRIAL WATER CHILLER
- 2) **MODEL** : FC/015
- 3) **FLOW RATE** : 1000 Ltrs./ hr.
- 4) **INLET TEMPERATURE TO CHILLER** : 40* DEG. C.
- 5) **OUTLET TEMPERATURE FROM CHILLER** : 5* DEG. C.
- 6) **REFIGERATION LOAD** : 15 TON
- 7) **CHILLER TYPE** : TUBE 'N' TUBE / SHELL 'N' TUBE TYPE
- 8) **CONDENSOR TYPE** : AIR COOLED TYPE
- 9) **CONTROL** : FULLY AUTOMATIC.
- 10) **SAFETY INTERLOCKS**
 - L.P. SWITCH & GAUGE
 - H.P. SWITCH & GAUGE
 - DIGITAL TEMPERATURE CONTROLLER
 - WATER FLOW FAILURE TRIP
 - COMPRESSOR OVERLOAD TRIP
 - VOLTAGE SCANNER WITH UV/ OV / SPP / RP
 - OIL FAILURE SWITCH



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B) COMPRESSOR

- 1) MAKE : COPELAND / DANFOSS
- 2) NO. OF COMPRESSOR : 1 Nos.
- 3) TYPE : SEMI – HERMETIC SCROLL

C) PUMP

- 1) MAKE : CROMPTON / HITESH / KIRLOSKAR
- 2) NO. OF PUMPS : 2 NOS.

D) ELECTRICAL SPECIFICATION

- 1) POWER SUPPLY : 400 V +/- 10% / 3 PH. / 50 Hz +/- 5 %
- 2) CONNECTED LOAD AT 100 % CAPACITY : 18.55 KW

E) GENERAL CONDITION

- 1) DESIGN TEMPERATURE : 45 DEG. C. AMBIENT
- 2) NOISE LEVEL : LESS THAN 85 db at 1.0 MTR DISTANCE
- 3) CONDENSER FAN CONTROL : N. A.
- 4) CONDENSER FAN TYPE : N. A.
- 5) REFRIGERANT REQUIRED : R – 22

F) STORAGE TANK

M. S. Powder coated storage tank with PUFF INSULATION and M. S. Water Storage Tank – 500 Ltrs.



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1. MAKE OF ITEMS : FLOW COOL – CHILLER.

| Sr. No. | Item | Manufacturer |
|---------|---------------------|-----------------------------|
| 1 | COMPRESSOR | COPLAND / DANFOSS |
| 2 | CONDENSOR | ALFA LAVAL |
| 3 | CHILLER | ALFA LAVAL |
| 4 | BASE FRAME | SELF |
| 5 | EXPANSION VALVE | DANFOSS (DENMARK) |
| 6 | LP / HP SWITCH | DANFOSS (DENMARK) |
| 7 | OIL LEVEL SWITCH | N. A. |
| 8 | CONTROL PANEL | SELF |
| 9 | ELECTRICALS | L & T / SIEMENS / SCHENIDER |
| 10 | VALVE | IMPORTED |
| 11 | ISOLATION VALVES | IMPORTED |
| 12 | FILTER / DRIER | DANFOSS (DENMARK) |
| 13 | VOLTAGE SCANNER | PROTON / MINILEC / L & T |
| 14 | MICRO PROCESSOR | SELF |
| 15 | GLYCOL PUMP | CROMPTON / HITESH |
| 16 | GLYCOL STORAGE TANK | BHARAT |
| 17 | EXHAUST FAN | HI – COOL |
| 18 | COOLING TOWER | N. A. |

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