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Chiller Machine 55 TR

Water Cooled Chiller of 55.00 TR, with **R - 22** as refrigerant and **SCREW** compressor from **BITZER / FRASCOLD**. All the other components are being imported used from the world's best company from **U. S. A and GERMANY**.

The chiller is controlled with the following salient features:

- Temperature sensing of chilled water in and out, evaporating and ambient temperature.
- Pressure transducer based low and high pressure alarms.
- Compressor : **SCREW COMPRESSOR**
- Expansion valve : **Electronic Expansion Valve** used which is interlocked With the PID based electronic temperature controller
- Capacity Control : Fully automatic, seamless from 25% to 100%
- Motor Protection : Electronic Thermistor based, with heat sensor embedded In the stator coil.
- Reverse Rotation Protection : In-built into the chiller.
- Oil level protection : In-built into the compressor.
- Compressor start / stop : At no Load.

TECHNICAL SPECIFICATIONS (55.00 TR, WATER COOLED SCREW CHILLER)

A) CHILLER

- | | |
|------------------------------------|-----------------------|
| 1. SYSTEM | : INDUSTRIAL CHILLER |
| 2. MODEL | : LT/55WCS |
| 3. FLOW RATE | : 40.50 m3h |
| 4. FLUID TO BE COOLED | : WATER / GLYCOL |
| 5. INLET TEMPERATURE TO CHILLER | : 15°C. |
| 6. OUTLET TEMPERATURE FROM CHILLER | : 10* C. |
| 7. REFRIGERATION LOAD | : 55.00 TON |
| 8. CHILLER TYPE | : SHELL 'N' TUBE TYPE |
| 9. ECONOMIZER | : N. A. |
| 10. CONDENSOR TYPE | : WATER COOLED TYPE |



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11. CONTROL

: FULLY AUTOMATIC.

12. SAFETY INTERLOCKS

1. L.P. SWITCH & GAUGE
2. H.P. SWITCH & GAUGE
3. DIGITAL TEMPERATURE CONTROLLER
4. WATER FLOW FAILURE TRIP
5. COMPRESSOR OVERLOAD TRIP
6. VOLTAGE SCANNER WITH UV/ OV / SPP / RP
7. OIL FAILURE SWITCH



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B) COMPRESSOR

- | | |
|----------------------|-------------------------|
| 1. MAKE & MODEL | : BITZER / FRASCOLD |
| 2. NO. OF COMPRESSOR | : 1 Nos. |
| 3. TYPE | : SCREW |
| 4. POWER INPUT | : 51.97 Kw / Compressor |

C) ELECTRICAL SPECIFICATION

- | | |
|-------------------------------------|---|
| 1. POWER SUPPLY | : 410 V +/- 10% / 3 PH. / 50 Hz +/- 5 % |
| 2. CONNECTED LOAD AT 100 % CAPACITY | : 58.55 kW. |

D) GENERAL CONDITION

- | | |
|--------------------------|---------------------------------------|
| 1. DESIGN TEMPERATURE | : 48 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 |

1. MAKE OF ITEMS : WATER CHILLER

| SR. NO. | ITEM | MAKE |
|---------|------------------|-----------------------------|
| 1. | COMPRESSOR | BITZER / FRASCOLD |
| 2. | CONDENSOR | Self |
| 3. | CHILLER | Self |
| 4. | BASE FRAME | Self |
| 5. | EXPANSION VALVE | SPORLANE / CAREL / DANFOSS |
| 6. | LP / HP SWITCH | DANFOSS |
| 7. | OIL LEVEL SWITCH | N. A. |
| 8. | CONTROL PANEL | Self |
| 9. | ELECTRICALS | L & T / SCHENIDER / SEIMENS |
| 10. | VALVE | Self |
| 11. | ISOLATION VALVES | Self |
| 12. | FILTER / DRIER | DANFOSS |
| 13. | VOLTAGE SCANNER | MINILEC / L & T |
| 14. | MICRO PROCESSOR | DELTA |
| 15. | COOLING TOWER | RAJ FIBRE |
| 16. | EXHAUST FAN | N. A. |