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## **200-Ton Chiller Machine Specification**

### **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 : Thermostatic Expansion valve used which is interlocked with The PID based temperature controller
- Capacity Control thermistor : Fully Automatic, Seamless from 25% to 100% Electronic Based, with heat sensor
- Motor Protection : Embedded in The Stator coil.
- Revers Rotation Protection : In-built in to the chiller
- Oil Laval Protection : In-built in to the compressor
- Compressor On/Off : At on Load

### **TECHNICAL SPECIFICATIONS (200.00 TR, WATER COOLED SCREW CHILLER)**

#### **A) CHILLER**

Sr. No	Item	Description
1	SYSTEM	INDUSTRIAL WATER CHILLER
2	MODEL	FC/200WC
3	FLOW RATE	120.35 m3 / hr.
4	INLET TEMPERATURE TO CHILLER	3* C
5	OUTLET TEMPERATURE FROM CHILLER	-5* C.
6	REFIGERATION LOAD	200 TON
7	CHILLER TYPE	SHELL 'N' TUBE
8	CONDENSOR TYPE	WATER 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 : BITZER / REFCOMP
- 2. NO. OF COMPRESSOR : 2 Nos.
- 3. TYPE : SCREW
- 4. POWER INPUT : 95.65 Kw / each Compressor

**C) ELECTRICAL SPECIFICATION**

- 1. POWER SUPPLY : 400 V +/- 10% / 3 PH. / 50 Hz +/- 5 %
- 2. CONNECTED LOAD CAPACITY : 230.32 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 – 407

**1. MAKE OF ITEMS : WATER CHILLER**

SR. NO.	ITEM	MAKE
1.	COMPRESSOR	BITZER / REFCOMP
2.	CONDENSOR	Self
3.	CHILLER	Self
4.	BASE FRAME	Self
5.	EXPANSION VALVE	EMERSON / SPORLANE
6.	LP / HP SWITCH	DANFOSS
7.	OIL LEVEL SWITCH	N. A.
8.	CONTROL PANEL	LANDMARK
9.	ELECTRICALS	L & T / SCHENIDER
10.	VALVE	IMPORTED
11.	ISOLATION VALVES	IMPORTED
12.	FILTER / DRIER	DANFOSS (DENMARK)
13.	VOLTAGE SCANNER	MINILEC / L & T
14.	MICRO PROCESSOR	SUBZERO
15.	COOLING TOWER	VIRAT FIBRE
16.	EXHAUST FAN	N. A.