GSTIN: 24AAECR3013M1ZJ

Raj

Water Technology (Guj.) Pvt. Ltd

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HEAD OFFICE:

Plot No.: 27, Survey No. 47, Jivraj Industrial Area, Nr. Falcon Pump, Vavdi, Gondal Road, Rajkot - 360004.

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100-Ton Chiller Machine Specification

The Screw 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 : Compact Screw Compressor

Expansion valve : Thermostatic expansion valve used which is interlocked With

the PID based 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 : At no Load

TECHNICAL SPECIFICATIONS (100 TR, WATER COOLED CHILLER)

A) CHILLER

CHILLER			
Sr. No	Item	Description	
1	SYSTEM	INDUSTRIAL WATER CHILLER	
2	MODEL	FC/110	
3	FLOW RATE	30.28 m3 / hr.	
4	INLET TEMPERATURE TO CHILLER	40 DEG. C.	
5	OUTLET TEMPERATURE FROM CHILLER	20 DEG. C.	
6	REFIGERATION LOAD	100 TON	
7	CHILLER TYPE	SHELL 'N' TUBE TYPE	
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	

AN ISO 9001: 2008 COMPANY

II Shree Umiya Matay Namah II



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B) COMPRESSOR

1. MAKE : BITZER / FRASCOLD

2. NO. OF COMPRESSOR : 2 Nos.

3. TYPE : COMPACT SCREW COMPRESSOR

4. MAX OPERATING CURRENT : 160.0 A
5. MAX POWER INPUT : 95 KW
6. REFRIGERANT GAS : R – 22

C) PUMP

1. MAKE : CROMPTON / KIRLOSKAR

2. NO. OF PUMPS : 6 NOS.

D) <u>ELECTRICAL SPECIFICATION</u>

1. POWER SUPPLY : 400 V +/- 10% / 3 PH. / 50 Hz +/- 5 %

2. CONNECTED LOAD CAPACITY : 210 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. REFIGERANT REQUIRED : R – 22



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1. **MAKE OF ITEMS : SEMI HERMETIC CHILLER**

SR. NO.	ITEM	MAKE
1.	COMPRESSOR	BITZER / FRASCOLD
2.	CONDENSOR	BHARAT
3.	CHILLER	ALFA LAVAL
4.	BASE FRAME	Self
5.	EXPANSION VALVE	DANFOSS / SPORLANE / ALCO
6.	LP / HP SWITCH	DANFOSS / ALCO
7.	OIL LEVEL SWITCH	N. A.
8.	CONTROL PANEL	Self
9.	ELECTRICALS	L & T / SIEMENS / SCHNIDER
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 / KIRLOSKAR
16.	GLYCOL STORAGE TANK	Self
17.	COOLING TOWER	RAJ FIBRE
18.	EXHAUST FAN	N. A.

2. **EXCLUSION**

- 1. ALL CIVIL WORK
- 2. TOTAL INTERCONNECTING PIPING AND INSULATION WORK, OUTSIDE THE BASE FRAMESOF SUPPLIED EQUIPMENT
- 3. TOTAL INTERCONNECTING POWER CABLING AND OTHER RELATED ELECTRICAL WORK, OUTSIDE THE BASE FRAMES OF OUR SUPPLIED EQUIPMENT.
- 4. UNLOADING, POSITIONING AND INSTALLATION OF ALL THE EQUIPMENT AT THEIR PROPER PLACE, WITH DUE CARE.
- 5. ANY OTHER MATERIAL / WORK, WHICH IS NOT INCLUDED WITHIN OUR SCOPE AND MAY BE REQUIRED FOR THE PROPER COMMISSIONING AND OPERATION OF THE SYSTEM.
- GLYCOL SOLUTION. 6.