



GSTIN : 24AAECR3013M1ZJ

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## 25-Ton Chiller Machine Specification

At the very outset we would like to thank you for the kind courtesy, co – operation and patient hearing extended to the undersigned during his telephonic discussions with you.

As per the discussion, kindly find enclosed our offer for the supply of Glycol Chiller as per following:

**Air Cooled Chiller of 25 TR capacity**, with **R – 22** as refrigerant with semi-hermetic

**SCROLL** compressor from **COPLAND / DANFOSS**. All the other components are being imported or used from the world's best company from **USA and Europe**.

We hope you will find our offer in line with your requirement. In case, there is any further clarification, please do not hesitate to get in touch with us.

### The scroll 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	<b>Semi-Hermetic Scroll</b>
Expansion valve	<b>Thermostatic expansion valve</b> 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 start / stop	At no Load



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## TECHNICAL SPECIFICATIONS (25 TR, AIR COOLED GLYCOL CHILLER)

### A) CHILLER

SYSTEM	INDUSTRIAL WATER CHILLER
MODEL	FC/026
FLOW RATE	15.12 m <sup>3</sup> / hr.
INLET TEMPERATURE TO CHILLER	4 DEG. C.
OUTLET TEMPERATURE FROM CHILLER	-1 DEG. C.
REFIGERATION LOAD	25 TON
CHILLER TYPE	TUBE 'N' TUBE TYPE
CONDENSOR TYPE	AIR COOLED TYPE
CONTROL	FULLY AUTOMATIC
SAFETY INTERLOCKS	L.P. SWITCH & GAUGE H.P. SWITCH & GAUGE DIGITAL TEMPERATURE CONTROLLER GLYCOL FLOW FAILURE TRIP COMPRESSOR OVERLOAD TRIP VOLTAGE SCANNER WITH UV/ OV / SPP / RP 7. OIL FAILURE SWITCH

### B) COMPRESSOR

MANUFACTURER	COPLAND / DANFOSS
NUMBER OF COMPRESSOR	1 Nos. SEMI-HERMETIC
TYPE	SCROLL

### C) PUMP

Manufacturer	CROMPTON / HITESH
Number of Pump	1 NOS.



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**D) ELECTRICAL SPECIFICATION**

POWER SUPPLY	400 V +/- 10% / 3 PH. / 50 Hz +/- 5 %
CONNECTED LOAD AT 100 % CAPACITY	105 KW

**E) GENERAL CONDITION**

DESIGN TEMPERATURE	45 DEG. C. AMBIENT
NOISE LEVEL	LESS THAN 85 dB at 1.0 MTR DISTANCE
CONDENSER FAN CONTROL	N. A.
CONDENSER FAN TYPE	N. A.
REFRIGERANT REQUIRED	R – 22

**MAKE OF ITEMS : SEMI HERMETIC CHILLER**

Sr. No.	ITEM	MANUFACTURER
1	COMPRESSOR	COPLAND / DANFOSS
2	CONDENSOR	SHELF
3	CHILLER	PACKLES (U. S. A.)
4	BASE FRAME	SHELF
5	EXPANSION VALVE	DANFOSS (DENMARK)
6	LP / HP SWITCH	DANFOSS (DENMARK)
7	OIL LEVEL SWITCH	N. A.
8	CONTROL PANEL	SHELF
9	ELECTRICALS	L & T / SIEMENS / SCHNIDER
10	VALVE	IMPORTED
11	ISOLATION VALVES	IMPORTED



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Sr. No.	ITEM	MANUFACTURER
12	<b>FILTER / DRIER</b>	<b>DANFOSS (DENMARK)</b>
13	<b>VOLTAGE SCANNER</b>	<b>PROTON / MINILEC / L &amp; T</b>
14	<b>MICRO PROCESSOR</b>	<b>SHELF</b>
15	<b>GLYCOL PUMP</b>	<b>CROMPTON / HITESH</b>
16	<b>GLYCOL STORAGE TANK</b>	<b>SHELF</b>
17	<b>EXHAUST FAN</b>	<b>HI – COOL</b>
18	<b>COOLING TOWER</b>	<b>N. A.</b>

### EXCLUSION

- 1) ALL CIVIL WORK
- 2) TOTAL INTERCONNECTING PIPING AND INSULATION WORK, OUTSIDE THE BASE FRAMES OF 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.
- 6) GLYCOL SOLUTION.