



GSTIN : 24AAECR3013M1ZJ

MUMBAI OFFICE :
116-D, Govt. Industrial Estate,
Charkop, Kandiwali (West),
Mumbai - 400067,
Maharashtra.
Cell : [+91 73595 95577](tel:+917359595577)
E-mail : inquiry@rajwater.com
info@rajwater.com

AHMEDABAD OFFICE :
B/9, Sumel-7, Business Park,
Opp. Soni ni Chal,
BRTS Bus Stop, N.H.-8
Ahmedabad - 382325.
Cell : [+91 70432 55777](tel:+917043255777)
E-mail : inquiry@rajwater.com
info@rajwater.com

HEAD OFFICE :
Plot No. : 27, Survey No. 47, Jivraj Industrial Area,
Nr. Falcon Pump, Vavdi, Gondal Road, Rajkot - 360004.
Tel : [+91 281 - 2922777](tel:+912812922777)
Telefax : [+91 281 - 2922481](tel:+912812922481)
Cell : [+91 74050 50444](tel:+917405050444) / [+91 70439 55777](tel:+917043955777)
Website : www.rajwater.com
Email : inquiry@rajwater.com / info@rajwater.com

180-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 : Fully Automatic, Seamless from 25% to 100% electronic
Thermistor Based, with heat sensor

Motor Protection : Embedded in The Stator coil.

Revers Rotation : In-built in to the chiller
Protection

Oil Laval Protection : In-built in to the compressor

Compressor On/Off : At on Load

TECHNICAL SPECIFICATIONS (180 TR. WATER COOLED CHILLER)

A) CHILLER

Sr. No	Item	Description
1	SYSTEM	INDUSTRIAL WATER CHILLER
2	MODEL	FC/180
3	FLOW RATE	124.40 m ³ / hr
4	INLET TEMPERATURE TO CHILLER	54* DEG. F.
5	OUTLET TEMPERATURE FROM CHILLER	44* DEG. F.
6	REFIGERATION LOAD	180 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

MUMBAI OFFICE :
116-D, Govt. Industrial Estate,
Charkop, Kandiwali (West),
Mumbai - 400067,
Maharashtra.
Cell : +91 73595 95577
E-mail : inquiry@rajwater.com
info@rajwater.com

AHMEDABAD OFFICE :
B/9, Sumel-7, Business Park,
Opp. Soni ni Chal,
BRTS Bus Stop, N.H.-8
Ahmedabad - 382325.
Cell : +91 70432 55777
E-mail : inquiry@rajwater.com
info@rajwater.com

HEAD OFFICE :
Plot No. : 27, Survey No. 47,Jivraj Industrial Area,
Nr. Falcon Pump,Vavdi,Gondal Road,Rajkot - 360004.
Tel : +91 281 - 2922777
Telefax : +91 281 - 2922481
Cell : +91 74050 50444 / +91 70439 55777
Website : www.rajwater.com
Email : inquiry@rajwater.com / info@rajwater.com

B) COMPRESSOR

- 1) MAKE

:

BITZER / FRASCOLD
- 2) NO. OF COMPRESSOR

:

1 Nos.
- 3) TYPE

:

SCREW WITH SEMI HERMETIC COMPRESSOR
- 4) MAX OPERATING CURRENT

:

322.2 A
- 5) MAX POWER INPUT

:

198.72 KW
- 6) REFRIGERANT GAS

:

R – 407

C) ELECTRICAL SPECIFICATION

1. POWER SUPPLY

:

400 V +/- 10% / 3 PH. / 50 Hz +/- 5 %
2. CONNECTED LOAD CAPACITY

:

270 KW

D) 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 – 407



GSTIN : 24AAECR3013M1ZJ

MUMBAI OFFICE :
116-D, Govt. Industrial Estate,
Charkop, Kandiwali (West),
Mumbai - 400067,
Maharashtra.
Cell : [+91 73595 95577](tel:+917359595577)
E-mail : inquiry@rajwater.com
info@rajwater.com

AHMEDABAD OFFICE :
B/9, Sumel-7, Business Park,
Opp. Soni ni Chal,
BRTS Bus Stop, N.H.-8
Ahmedabad - 382325.
Cell : [+91 70432 55777](tel:+917043255777)
E-mail : inquiry@rajwater.com
info@rajwater.com

HEAD OFFICE :
Plot No. : 27, Survey No. 47, Jivraj Industrial Area,
Nr. Falcon Pump, Vavdi, Gondal Road, Rajkot - 360004.
Tel : [+91 281 - 2922777](tel:+912812922777)
Telefax : [+91 281 - 2922481](tel:+912812922481)
Cell : [+91 74050 50444](tel:+917405050444) / [+91 70439 55777](tel:+917043955777)
Website : www.rajwater.com
Email : inquiry@rajwater.com / info@rajwater.com

MAKE OF ITEMS : SEMI HERMETIC CHILLER

SR. NO.	ITEM	MAKE
1.	COMPRESSOR	BITZER / FRASCOLD / BOCK
2.	CONDENSOR	ALFA LAVAL
3.	CHILLER	ALFA LAVAL
4.	BASE FRAME	BHARAT
5.	EXPANSION VALVE	DANFOSS / SPORLANE / ALCO
6.	LP / HP SWITCH	DANFOSS / ALCO
7.	OIL LEVEL SWITCH	N. A.
8.	CONTROL PANEL	BHARAT
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	BHARAT
15.	GLYCOL PUMP	CROMPTON / KIRLOSKAR
16.	GLYCOL STORAGE TANK	BHARAT
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 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