

# Specification Sheet

P-2/3

Sr. No.	Description	Qty.
1.	<b><u>Air Cooled Water Chillers</u></b> Packaged type, PLC Controlled. Skid Mounted Complete with all Controls, Accessories and Safety Devices. Make: TRANE, DAIKIN, MCQUAY, DANHUM BUSH, FRIMEC, UNTES, HITACHI, ERBAY Origin: USA, European Countries, turkey, Japan, Malaysia, <i>China.</i> Cooling Capacity: 50 ton / hr. % Capacity Control: Stepless Flow Rate: 35 m <sup>3</sup> / hr. Ambient working Temperature: 50 °C Type of evaporator: Shell and tube type-internally finned special copper tube Evaporator water inlet/outlet temperature: 12 C° / 7 C° Compressor: Semi Hermetic, Screw type with Stepless Capacity Control System & Internal Overload Protection Number of Compressors: 02 Number of Refrigerant Circuits: 02 Refrigerant: R-134-a Condenser Fan: Top Discharge, Propeller Type, Waterproof. Electric Supply: 380-400 V, 50 Hz, 3-Phase Single Point Power Connection.	02 Set
2.	<b><u>Chilled Water Circulation Pumps</u></b> complete with Compatible Electric Motors etc. Water Flow Rate: 40 m <sup>3</sup> / hr. Water Pressure: 3.0 Bar Pump Shaft Sealing: Mechanical Seal Pump Material: S.S-304 (body, shaft, rotor) Electricity: 380-400 V, 3 -Ph, 50 Hz.	04 Sets
3.	<b><u>Spare Axial Fans</u></b> for Air Cooled Water Chiller at Sr. No. 1	04 Nos.
4.	<b><u>Spare Mechanical Seals</u></b> for Chilled Water Circulation Pumps at Sr. No. 2	12 Sets
5.	<b><u>Spare Parts for 6000 Operational Hours</u></b>	02 Sets
6.	<b><u>Refrigeration Oil for 04 Replacements</u></b>	02 Sets
7.	<b><u>Literature in English Language</u></b> i. Installation Drawing ii. Electrical Drawings iii. Operational Manuals iv. Detailed Drawing of Screw Compressor and Overhauling Procedure with Necessary Spares & Special Tools.	02 Sets

**SPECIFICATIONS**

Sr. No.	Description of Store	Quantity Required
	<b><u>AIR COOLED WATER CHILLER</u></b>	
1.	<p><i>(Heavy duty/High Ambient Packaged Type Unit with Standard Accessories)</i></p> <p>a) <b>Cooling capacity:</b> 70 Ton (250 KW) at 115°F (46°C) Condensing/Ambient Temperature</p> <p>b) <b>Type of Compressor:</b> Screw type</p> <p>c) <b>Refrigerant:</b> R134a or latest (Should be Factory charged)</p> <p>d) <b>Refrigerant circuits:</b> 02 No.</p> <p>e) <b>No. of compressors installed:</b> 02 No.</p> <p>f) <b>Chilled water inlet temperature:</b> 54°F</p> <p>g) <b>Chilled water outlet temperature:</b> 44°F</p> <p>h) <b>Average Chilled water flow rate:</b> 168 US GPM (Approx.)</p> <p>i) <b>Chilled water cooling range:</b> 10°F</p> <p>j) <b>Evaporator:</b> Flooded type (Shell &amp; Tube)</p> <p>k) <b>Electric supply:</b> 380/420V, 50 Hz</p> <p>l) Unit should be provided with all standard features including Microprocessor control, service valves, voltage monitor, Victaulic coupling, isolating pads and necessary safety devices.</p>	01 No.
	<b><u>SPARES</u></b>	
	(i) Compressor	01 No.
	(ii) Condenser Fan complete with motor	01 No.
	(iii) Electronic Expansion Valve	01 No.
	(iv) Manufacturer's recommended spares parts like magnetic contactors, pressure switches, refrigerant filters, oil filters, pressure/temperature sensors, control modules, key pad, fuses, voltage/current transformers etc for minimum five years operation with 24 Hours working	01 Lot
	<p><b>Make:</b> TRANE (France), DAIKIN (Italy/Malaysia), McQuay (Malaysia), UNTES (Turkey), DANHUM BUSH (Malaysia), FRIMEC (Malaysia), RHOSS (Italy), KLIMALLCO (Greece)</p>	
	<p><b>Note:</b> All the technical literature including chiller performance sheet at different ambient temperatures of quoted model in English language must be provided with quotation.</p>	