

Specifications for Refrigerated type Water chiller plant with Air cooling

Type	Air cooled, Refrigerated type Water chiller
Application	Process cooling
Media	DM water
Inlet temp	26°C
Outlet temp	15°C
Delta T	11°C
Water Flow	80-85 LPM min.
Cooling capacity	20 TR minimum (about 52500 Kcal/hr of heat load)
Chilled water tank	Suitable capacity water tank, preferably insulated
Compressor & pump	Reputed make
Material	All material used in water line should be stainless steel.
Refrigerant	Eco-friendly refrigerant R 410A or better
End connections	Inlet/outlet connections to be leak-proof; size & details to be mentioned in the offer.
Power requirement	3 Phase 415 V±10% 50 Hz
Controller	Reputed make
Operation	Fully automatic operation of Water Chiller as per set temperature
Pressure	Chilled DM water supply at 4-5 bar pressure
Temp & flow measurement	Inlet, Outlet temp., Flow and Pressure measurement required; Media level indicator
Interlocks in Chiller	Compressor cut-in & cut-off as per set temp., HP/LP trip, Media level low alarm/trip. Diagnostics for tripping/alarm should be indicated in control panel. Overload protection.
Noise level	Less than 80 dB at 1 m from the chiller
Miscellaneous	Rust proof, rodent proof body; lifting hooks to be provided.
Installation	Supplier shall install the equipment at BHEL R&D, Hyderabad. Necessary wiring and piping shall be in the scope of BHEL.
Prior experience	Supplier should have installed at least 2 nos Chiller plants of 10 TR or more and shall submit installation certificates along with the offer. Contact person details with Phone no/email are to be mentioned. BHEL may verify independently regarding the performance of the chiller plant supplied.