

Technical Specifications

Cold Room & Refrigeration System (Level 1 Office)

No of units: 1

- For chiller storage of all sorts of items
- Chiller storage temperature: 10 12 ° C
- Provides excellent thermal efficiency
- Cold room enclosure with suitable insulation walls & ceiling panels
- Wall insulation to be inserted into the subfloor in conjunction with the existing floor insulation imbedded to form a complete enclosure
 Floor insulation construct with 100mm thick polyurethane slab complete with polyethylene sheets in 2 layers. Joints to be overlapped and sealed with non setting flexible sealant
- To provide cut-off drain to drain excess water to nearby floor trap in the adjacent room
- Insulation panels construct with 75mm thick foamed-in place polyurethane core with facings of galvanized sheet steel
- Floor heating element system complete with thermostat and control
- Evaporator unit constructed with textured aluminum, complete with electric fans, copper tubes staggered and mechanically expanded into corrugated aluminum fins operate on electrical defrost mode
- Air cooled condensing unit consisting of Bitzer semi-hermetic compressor complete with necessary refrigeration components and accessories eg. hand valve, solenoid valve, expansion valve etc., all mounted on base frame
- Provide and install new refrigeration copper piping to connect the evaporator units with the air cooled condensing unit, complete with insulation for suction line
- Electrical control panel complete with Danfoss refrigeration controller and necessary electrical components
- Provide link for the new refrigeration controller into existing Danbus network and reconfiguring existing monitoring system to incorporate the new chiller room
- Designed to operate efficiently up to 30°C ambient environments
- User friendly electrical control with large easy readable digital thermometer for set and actual temperature, high temperature acoustic alarm, on-off switch with power on indication lamp
- Suitable LED/fluorescent light fitting suitable for cold room application
- Wall insulation panels can be cleaned easily
- Coved corners for ease of cleaning
- Splash proof
- Easily replaceable heavy duty door gasket & door hinges
- Double-leaf swing door with at least 1.5m clear width for pallets movement
- Door lock
- General builders work which include the removal of existing window and door and patch up with concrete/grout material.
- Warranty period of 12 months
- All wiring system and control switches must be properly laid and comply with safety requirements
- Critical spare parts list
- Operating manual printed in English



Note:

- The air cooled condensing units shall be located beside the staircase (S1) next to the receiving bays (Please see diagram 1 below for the location).
- Refrigeration pipe shall be provided across the ceiling at the AC receiving area as shown indicatively in diagram 2.

Price to include the following works (Additional Works)

- Final connection of the electrical control panels
- First charge of refrigerant R404a and compressor oil
- Testing & commissioning of refrigeration system



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Technical Data		Projected by Consultant	Designed by Contractor
Adjustable temperature	° C	10 - 12	
Insulation	mm	75 – 100	
Thermal conductivity of insulation	W/mk		
Condenser			
Refrigeration capacity	W		
Refrigerant evaporating temp.	К		
Refrigerant		R404a	
Electrical			
Voltage	V		
Connected load	kW		
Protection enclosure	IP	55	
Heat emission			
Latent dissipation	kW		
Sensible dissipation	kW		
Internal dimensions			
Length	mm	7300	
Width	mm	4330	
Height	mm	3000	
External dimensions			
Length	mm	7600	
Width	mm	4630	
Height	mm	3500	

Manufacturer

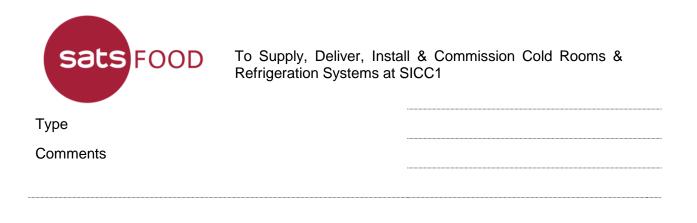


Diagram 1 (General Layout of Refrigeration System):

