

Guide Specifications for Air Cooled Modular Chiller

1. General Specifications

- The modular air cooled chiller shall adopt full DC inverter technology which improves part load operation efficiency and able to generate IPLV (GB) of 4.51
- The mainstream inverter motor adopted in the unit compressor and fan motor drive shall be of DC variable frequency type
- The modular air cooled chiller shall utilize R410a refrigerant

2. Component Specifications

- The water side heat exchanger shall be stainless steel brazed plate type
- The electronic expansion valve shall be of 480 steps configuration, based on precision throttling that enables the unit to dynamically adjust
- The air side heat exchanger shall adopt half-M fin-tube configuration to allow smooth air flow and reduce frosting while improving heat exchange capacity. It shall be threaded copper type to enlarge the heat exchange area and improve perturbation of the refrigerant
- The modular chiller shall be able to implement 15%-100% stepless capacity control with precise low-load consumption
- The unit shall come with a standard 18-mesh water filter that supports filtering of particles with a minimum of 1.0mm diameter so as to efficiently prevent dirty, blocked or frozen plates
- When multiple modular units are combined, the need of maintenance or repair for a certain unit of the group does not influence normal operations of other units
- The unit shall be able to function in ambient temperature of -15°C to 52°C

3. Control Specifications

- The unit shall come with a user-friendly micro-computer controller with a large LCD screen to facilitate operation
- One controller can control up to 16 units and dynamically monitor the units' running statuses
- Centralized controller can be provided as an option if total quantity exceeds 16 units
- The controller monitors in real time the operating time of each modular unit in the group so as to intelligently balance out the operation life span of the compressors
- The unit shall also come with standard MODBUS port to easily connect to Building Automation System (BAS)