



Central Air Conditioning Training System

LTR22

Country of origin China



Technical Specification:

Central air conditioning system training device should simulate real process of building central air; conditioning system. It can demonstrate "summer refrigeration cycle" and "winter heating cycle" process of the central air conditioning. The system should include the electrical control system and central air conditioning system. The students can learn various skills of central air conditioning system design, load calculation, electrical design, piping design, energy management and cost estimates. Central air conditioning units: Central air conditioning specified units, evaporator, condenser, tank, fan coil units, piping (sight glass, pressure gauge, etc.). Cooling / chilled water pumps. Cooling towers: More than 2T. Simulated rooms: Industrial profile bracket, environmentally friendly materials Wall. Electrical control cabinet: about 600*500*1800mm, standard electrical cabinet. Composition : controller, operation terminals, contactor, relays, data collector, buttons, indicators, fault setting boards, digital instrument, etc.

Training courses:

Understand the structure and composition of the central air conditioning. Starting and stopping the central air conditioning. Running and adjustment operation of the central air conditioning. Testing the running conditions and running parameters of the central air conditioning. PLC for advanced programming and PLC installation, wiring and commissioning. With pressure transmitters, temperature sensors and the corresponding A / D conversion module, entire operating parameters collection, real-time monitoring and other training. Achieve the functions like the animated show of central air conditioning running, show running data, real-time monitoring, curve analysis, show historical records, alarm, print the configuration. Training of network remote control. Training of network installation and setting up. Training of installation and using of sensors and transmitters.

Fault analysis and troubleshooting:

High pressure protection, Expansion valve clogged, Compressor does not work, Fans of combination of wind cabinet do not turn, condensing tower fan does not turn, Simulated boiler does not work, Cold water pump does not work, Hot water pump does not work, Condensate pump does not work, Refrigeration control computer sensor head does not work, Computer-controlled analog boiler sensor probe does not work, Adjustment of expansion valve is not normal, Compressor overload. Compressor starting capacitor does not work, System fan does not turn, cooling water is not circulating, Heating water is not circulating, Refrigeration compressor contactor is not normal, Analog boiler heating contactor does not work, Condensation tower fan motor losses phase

Technical parameter

Dimension: About 6000mm × 2400mm × 2500mm; Working power: AC380V±10%,50Hz ,≥6.5KW;
Working temperature: Ambient temperature: -5 °C ~ 40 °C; Cooling capacity: ≥7.5KW; Rated heating power: 2.0KW; Flow rate: 700m³/h
Refrigerant: R22; Safety protection: Overvoltage, over current, overload, leakage and grounding.