KR-212

AIR CONDITIONER TRAINING SYSTEM
Single-Split Type Cooling / Heating

Features
1. Understand the structure of the Single-Split Type Cooling/Heating
2. Catch on the theory of the split heat pump
3. Realize the circulation system of the Single-Split Type Cooling/Heating
4. Capability of connecting pipes and wires of the split heat pump
5. Use the service valves to undertake pipe-arrangement of the Single-Split Type Cooling/Heating
6. Use instruments for data acquisition and estimate the performance of the Single-Split Type Cooling/Heating
7. Application of Mollier Chart
8. Application of Psychrometric Chart

Specifications
1. COMPRESSOR
(1) Power Source : 208~230/60Hz
208~230/50Hz is available but at extra charge
(2) Cooling Capacity : 3.5KW
(3) Power Dissipation : 1200Watt
(4) Refrigerant : R-22

2. CONDENSER
(1) Cooling Type : Forced Cooling
(2) Pipe Size : Input 3/8", Output 3/8"

3. EVAPORATOR
(1) Cooling Type : Direct Expansion
(2) Pipe Size : Input1/4", Output 1/2"

4. REFRIGERANT CONTROLLER
(1) Type : Capillary Tube
(2) Size : 3.0Ø(mm)

5. FILTER AND DRIER
(1) Liquid & Service : 3/8"
(2) Output : 3.0Ø(mm)

6. THREE WAY SERVICE VALVE
(1) High Pressure Service : 1/4"
(2) Low Pressure Service : 1/2"

7. HIGH PRESSURE GAUGE
(1) Size : 67Ø
(2) Range : 0～35kg/cm^2

8. LOW PRESSURE GAUGE
(1) Size : 67Ø
(2) Range : 0～15Kg/cm^2
0～76cmHgVac (29.92inHgVac)

9. AC VOLTMETER
(1) Range : 0～300V

10. AC AMMETER
(1) Range : 0～20A

11. POWER SOURCE
(1) 230VAC±15% , 50/60Hz

12. DIMENSION
(1) 1140(W)×810(D)×1522(H)mm(±10%)

Experiments
- Knowledge of components
- Operation of split heat pump system
- Experiment of split heat pump system
- Fault judgment
- Application of Mollier Chart
- Application of Psychrometric Chart