Refrigeration / Air Condition Equipment





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KR-102

Refrigerator Training System







The Refrigerator Training System (KR-102) is designed for the skill training of a refrigerator, including refrigerator circuit constructing, system processing, and copper tube welding. Modified from an actual refrigerator, KR-102 is installed with safety plug and terminals. In addition, for welding and refrigeration process exercises, the system consists of 3 low pressure manual valves and 1 high pressure manual valves.

Specifications

- 1. Power: 1Ø110V/220V, 50Hz/60Hz
- 2. Single-Door Refrigerator (70L or above)
- 3. The Circuit Elements, Including
 - (1) Overheat protection switch
 - (2) Capacitance: 88M ~ 108M
 - (3) Defrost timer
 - (4) Overload
 - (5) Temperature switch
 - (6) PTC start relay
 - (7) 2P3cm fuse holder
 - (8) 75 °C temperature fuse
 - (9) Defrost heater
- (10) Button switch
- (11) 22mm Φ LED lamp
- (12) 4P copper grounding
- 4. Oil-Filled Stainless Steel Pressure Gauge
- 5. 1 / 10HP Compressor, R134a Refrigerant
- 6. PID Temperature Controller
- 7. 300V Voltmeter
- 8. 10A Ammeter
- 9. 4 Hand Valves
- 10. Dimension:

 $(710(W) \times 1040(D) \times 1760(H))$ mm ±10%

Experiments

- 1. Copper processing
 - (1) Pipe cutting
 - (2) The tube flaring making
 - (3) The tube overlap making
 - (4) Bended tube
 - (5) Sealed tube
- 2. Copper tube welding
 - (1) Specifying a location where a tube welding method is chosen
 - (2) Tube welding methods: silver soldering, brazing, aluminum welding
 - (3) Practicing tube welding with and without nitrogen flow Devices required for tube welding: oxyacetylene, Soldering Guns, hydroxide flame (not included in the system)
- 3. System processing of refrigerators Exercises of processing the refrigerant, including pressurized leak detecting, pressure stabilizing, vacuum making, and refrigerant filling.
- 4. Circuit processing
 - (1) Testing of electrical components
 - (2) Circuit connecting and inspecting
- 5. Testing for the running of the refrigerator
- 6. The equipment complies with the "Taiwan Refrigerating & Air-Conditioning Skills Test Standard"

Please refer to the appendix table for the accessories set and optional equipment of KR-102.

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Appendix Table

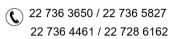
Accessories Sets											
Items	KR-101	KR-102	KR-105	KR-112	KR-115	KR-201	KR-212	KR-221	KR-270	KR-351	
Manifold Gauge	•	•	•	•	•	•	•	•	•		
Digital Thermal Meter	•			•	•			•	•		
Digital Anemometer			•		•	•	•	•	•		
AC Current Clamp Meter	•	•	•					•			
Wrench Set		•		•			•				
Flaring & Swaging Kit		•					•				
Others		Leak Detector		Concentration meter			Leak Detector				
Tool Box	•	•	•		•	•	•	•	•		

Optional										
Specific Tools Set		Soldering Set *					Washing tools Set			
Vacuum Pump	•	•	•		•	•	•	•	•	
Air Compressor				•						
Wire Rack										

Self-Provide											
Refrigerant	R-134a	R-134a	R-134a	R-404A	R-134a	R-410A	R-410A	R-410A	R-134a		

*Note. Soldering Set = If the soldering tools set is obtained, locally please prepare a fuel cylinder.





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