

## KR-101

### REFRIGERATOR MODEL TRAINING SYSTEM



KR-101 is not only a trainer, it is actually a refrigerator. However, related operation and function will come into view clearly. Students will learn refrigerant principle and conduct system processing. During operation, students are able to experience a variety of situations or problems and then to learn knowledge and skills to solve the problems. The original cabinets are supplied and many key components have been relocated and laid out down the system for visualization.

The four main parts of Basic Refrigeration circle process are easily understood (Condenser, Evaporator, Compressor and Control Devices) and the components are logically arranged. The system with Teacher and Student mode can be interacted for teaching and making experiment.

#### Feature

- Plug-in connected easily and safely
- Short circuit protection
- Temperature of each testing point can be measured.
- With "Teacher" and "Student" mode for the Interaction of teaching and making experiment.(Option)

#### Specifications

##### 1. COMPRESSOR :

- Motor : 1/10 HP
- Input : 110/220V (77W/50Hz , 95W/60Hz)
- Displacement : 3.9 c.c.
- Refrigerant : R-134a

##### 2. CONDENSER :

- Cooling Type : Nature Cooling
- Refrigerant Contact : Input 3mm, Output 5mm

##### 3. EVAPORATOR :

- Cooling Type : Direct Expansion
- Refrigerant Contact :  
Input 1/4"(6.35mm) ,Output 1/4"(6.35mm)
- Internal Volume :  
412(W) x 310(D) x 290(H)mm (±10%)

##### 4. REFRIGERANT CONTROLLER :

- Type : Capillary Tube
- Size : 2.54Ø x 0.55t(mm)

##### 5. FILTER AND DRIER :

- Liquid & Service : 3/16"(4.763mm), 1/8"(3.175mm)
- Output : 2.1mm

##### 6. SERVICE VALVE :

- High Pressure Service : 1/4" (6.35mm)
- Low Pressure Service : 1/4" (6.35mm)

##### 7. HIGH PRESSURE GAUGE

- (1) Size : 67Ø
- (2) Range: 0~35kg/cm<sup>2</sup>

##### 8. LOW PRESSURE GAUGE

- (1) Size : 67Ø
- (2) Range: 0~15Kg/cm<sup>2</sup>  
0~76cmHgVac (29.92inHgVac)

##### 9. AC VOLTMETER :

- Range : 0~300V

##### 10. AC AMMETER :

- Range : 0~10A

##### 11. TEMPERATURE DISPLAY :

- Display :  
2 ½ Digital Temperature Display
- Thermocouple :  
25°C : 10KΩ(±5%)  
0°C : 27KΩ(±5%)
- Range : -50°C~+50°C

##### 12. DIMENSION :

- 500(W) x 430(D) x 1530(H)mm(±10%)