model: Basic refrigeration-GTBD50307

Basic Refrigeration Trainer

Description

- 1. It has the possibility of the experiment on temperature, pressure, automatic control and mechanical trouble.
- It has the possibility of experiment and theoretical education related to automatic control, refrigeration system and refrigerator accessories.
- 3. It has the experiment on cycle change of refrigeration equipment according to temperature and Mollier diagram drawing in P-I diagram drawing part.
- 4. It has the theoretical education of efficiency test and experiment while operating.
- 5. The sequence screen is attached to the graphic module control department and power automatic control machine for experiment on temperature, pressure and automatic control and operation.
- 6. The control department is made up of visual lamps separated system from machine department.
- Automatic control with graphic panel and two automatic control modules.
- 8. Data formation by data auto-saving and P-I diagram auto-operation in the system with control program.

Experiments (Study Objectives)

- 1. Fitting refrigerant
- 2. Vacuum test
- 3. Leak test
- 4. Troubleshooting at refrigeration machine
- 5. Troubleshooting at electric circuit
- 6. Fitting electric circuits
- 7. Refrigeration effect as ratio of the expansion V/V in standard refrigeration system
- 8. Temperature control at evaporator
- 9. Temperature control at condenser
- 10. Pressure control at low side
- 11. Pressure control at high side
- 12. Pump-down operation

System configuration



- 1. Electric control module
- 2. Graphic module
- 3. Compressor
- 4. Condenser
- 5. Expansion V/V
- 6. Evaporator chamber
- 7. Chamber damper
- 8. Pressure gage
- 9. Temperature switch

Specifications

Compressor: Min. 1/2HP
Condenser: Air-cooled type
Evaporator: pin, Tube aircooled type
Evaporator chamber: damper

5. Expansion Valve : Manual type6. Liquid receiver : Min. 1/2HP7. Accumulator : Min. 1HP

8. Electronic valve: Min. 3/8" nut clamp type

9. Manometer10. Fitting nipple11. Sight Glass

12. Electric controlmodule : DC24V 13. Graphic module : digital DC24V

16. Dimension (LxWxH): Min. 1400x720x1720mm

17. Weight: Approx. 120kg

Supplied with

- 1. Electric control module
- 2. Refrigeration Machine module
- 3. Banana jack: 20 each black and red
- 4. User manual book
- 5. Data acquisition module
- 6. Computer monitoring program S/W
- 7. Warranty: 1 year with services
- 8. Required documents
 - 1) Manufacturer's Authorization Letter with contact details
 - 2) ISO Certificate
 - 3) Catalog file
- 9. Installation, Testing, Commissioning and Training is provided by bidder's experienced engineers at laboratory side.