



ZM6107 Computerized General Refrigeration Trainer



Note :

Due to keeping innovation, the specification and Machine pictures or color are subject to alteration without notice!

I Introduction

This trainer is designed for the in-depth study of vapour-compression cycle. It uses a personal computer, data acquisition and PC interface board, suitable transducers and sensors. It enables to vary the load conditions at condenser and evaporator, to use alternative devices for the gas expansion to insert non destructive hydraulic and electric faults for developing diagnostic skills in students; the data acquisition system supplied with the equipment enables students to become familiar with the refrigerant pressure enthalpy diagram and to analyze the heat balances corresponding to the different cycle components.

Supply software which can monitor voltage, current, frequency, power, power factor pressure, flow, etc, they can be displayed on PC in real time, and can print report.

II Training program

Plant starting and safely devices intervention checking
Analyzing the system behaviour versus the variation of:

- Expansion device
 - Valve opening degree (when the electronic valve is used for expansion)
 - Air flow rate at condenser and or evaporator
- Plotting the cycle in the refrigerant pressure -enthalpy diagram
Data acquisition and calculation of:
- Heat balances corresponding to evaporator, condenser, compressor
 - Refrigerant mass flow
 - Volumetric compression efficiency

We supply software which can be connected to PC, it can achieve data monitoring by PC.

Supplied with:

English General Refrigeration Manual
English Experimental Handbook