



ZM6110 Computerized Industrial 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 study of industrial refrigeration whose main aim consists in controlling the temperature and relative humidity of one or more cold rooms in this case a unique compressor and a unique condenser are used for two different cold rooms: one for frozen products and the other for fresh products. This trainer also simplifies the reaming of data acquisition techniques by using proper instruments and a personal computer. 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 choking
- Studying the operation of a thermostatic expansion valve and its calibration
- Proportional Control
- Correlation between evaporation temperature room temperature and relative humidity in positive temperature rooms
- Analyzing the system behavior versus the variation of:
 - Valves opening degree
 - Condenser air flow
- Plotting the cycle in the refrigerant pressure enthalpy diagram
- Data acquisition and calculation of:
 - Heat balances corresponding to evaporator condenser, compressor
 - Refrigerant mass flow

Suplied with:

General Refrigeration Manual
Experimental Handbook