



ZM6108 Domestic Refrigeration Trainer

Note :

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



I Introduction

Domestic refrigeration trainer is designed to identify and analyze the behaviour of thermodynamic cycle of domestic refrigeration students attention is focused onto the issues concerning refrigerant condensation that is generally inadequate because of the poor heat exchange due to the low convection occurring in the narrow spaces where domestic refrigerators are usually installed.

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

On - off control refrigerator thermostat

Using the refrigerant pressure enthalpy diagram as work and diagnosis tool plotting the refrigeration cycle

Data acquisition and calculation of:

- Heat balances corresponding to evaporator, condenser, compressor
- Refrigerant mass flow
- Volumetric compression efficiency and its trend versus compression ratio
- Condenser exchange surface
- Heat transfer coefficient between air and refrigerant in the condenser
- Heat losses through the room walls

Supplied with:

General Refrigeration Manual
Experimental handbook