



ZM6113 Trainer for The Study of A Commercial

Note :

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



I Introduction

The trainer, properly designed for educational aims, allows the student to study the operation of commercial refrigerator with two evaporators, one hermetic compressor and one air condenser

II Training Program

Plant starting and verification of the safely devices intervention

Study of the operation of a thermostatic expansion valve 16

On-off control

Analysis of the system behavior at variation of:

- Number of evaporators
- Condenser evaporations air flow
- Thermostatic valves superheat

Drawing the cycle in the pressure-enthalpy diagram of the refrigerant gas

Data collection and calculation of:

- Thermal balances at the evaporators, condenser, compressor
- Refrigerant mass flow
- Compressor volumetric efficiency
- Thermostatic valve superheat

Supplied with:

English General Refrigeration Manual
English Experimental Handbook