



ZM6118 Computerized Trainer for Studying the Hermetic Compressor

Note :

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



I Introduction

Only sophisticated instruments must be used to assess the quality of a compressor and analyze its characteristics. This trainer has been designed specifically for educational use so that students can also learn new techniques of data acquisition by the use of proper instruments and of a PC, besides understanding the issues concerning compressors.

II Training Program

Plant starting and safely devices intervention checking 26

Analyzing the system behaviour versus the variation of:

- Liquid expansion device
- Valve opening degree (when micrometric expansion valve is used)
- Air flow rate at condenser and or evaporator

Examining hermetic compressors and their characteristics

Assessing the quality of a compressor

Determining the power of a compressor

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.

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.

Supplied with:

English General Refrigeration Manual
English Experimental Handbook