



ZM6130 Trainer For the Study of a Chiller

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 purposes , allows the students to deepen the study of the operation of a chiller and its components ,such as the thermostatic expansion valve and the flow switch it also allows to analyzed yhe use of an intermediate fluid for the transport of the cooling power from the site of production to the site of use supply software which can monitor voltage ,current, frequency ,and ,power, power factor, pressure ,flow ,etc they can be displayed on PC in real time and print report

II Training Program

Plant starting and verification of the intervention of the safety devices

Study of the operation of a chiller

Study of the operation of a thermostatic expansion valve

ON/OFF regulation

Analysis of the behaviour of the system at the variation of:

- Air flow at the condenser

- Air flow at the air/water exchanger

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

Data collection and calculation of

Thermal exchange surfaces

Thermal balances at the evaporator, condenser, compressor

Mass flow of the refrigerant

Volumetric efficiency of the compression

Thermostatic valve superheat

Thermal balance (water side)

Supplied with :

English General air-conditioning manual

English Experimental handbook