



ZM6132 Trainer for Water Condensing Units



Note :

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

I Introduction

This trainer is designed specifically for education aims to study the techniques used at present for water condensation of refrigerating units:

- The use of dry cooler
- The use of a cooling tower

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 safety devices intervention checking 54

Studying the operation of

Pressure-operated valve

Dry cooler

Cooling tower

Proportional control

Examining the system behaviour versus the variation of:

- Evaporator air flow

Device used for condensation

Plotting the refrigeration cycle on refrigerant pressure-enthalpy diagram

Data acquisition and calculation of

Heat exchange surfaces

Heat balances corresponding to evaporator, condenser, compressor

Refrigerant mass flow

Volumetric compressor efficiency

Heat balance on water side

Heat balance on air side of cooling tower

Supplied with :

English general air-conditioning manual

English experimental hand book