



ZM6122 Ice Maker Trainer



I Introduction

This trainer has been designed to study the thermodynamic cycle of an ice maker. The evaporator is equipped with some special profiles onto which water is sprayed by a set of nozzles. Thus the evaporator is always covered by an ever growing ice layer. When ice is made, a timer stops the water spraying and hot gas is sent to the evaporator so that ice cubes can fall into the proper basin. Ice production capacity varies according to the efficiency of the cycle that depends on the environmental conditions. Supply software which can monitor voltage, current, frequency, power, power factor, 34 pressure, flow, etc, they can be displayed on PC in real time, and can print report.

II Training Program

Studying the operation of and ice maker

Analyzing the system behaviour versus the variation of the temperature of feeding water and of ambient temperature

Using the refrigerant pressure-enthalpy diagram for work and diagnosis plotting the refrigeration cycle

Data acquisition and calculation of:

Heat balances corresponding to evaporator, condenser, compressor

- Refrigerant mass flow
- Volumetric compression efficiency

Supplied with:

English General Refrigeration Manual

English Experimental Handbook

Note :

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