AIR CONDITIONING

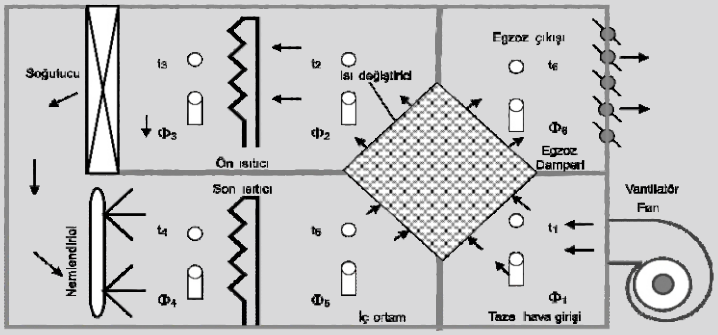
K-212 HEAT RECOVERY TYPE AIR CONDITIONING TRAINING SET

GENERAL EXPLANATION

This training set is designed to introduce the basic functions of a heat recovery air conditioning unit and to apply basic psychrometric operations.

EXPERIMENTS

1. Heating operation
2. Cooling and drying process
3. Aqueous humidification
4. Calculation of heat recovery capacity and efficiency in winter climate



OPTIONAL FEATURES

- Touch LCD Display
- USB Computer Connection
- Computer Control

TECHNICAL SPECIFICATION

Heat recovery air conditioning units operate with air-to-air heat recovery plate heat exchangers and the principle of adding fresh air to the energized air in the air exhausted from the environment. This allows a high amount of energy savings to be achieved. The heat exchangers are placed in the air-conditioning plants in a straight diagonal arrangement. Diagonal placement can be defined as a two-floor air conditioning unit. In the applications of double-duck air conditioning unit, by-pass damper installation in fresh and exhaust air circulation prevents excessive energy consumption during transitional periods or atmospheric conditions. The basic function of the heat recovery exchanger in the air handling unit is to serve as preheater or precooler. Heat recovery in an air conditioning unit with all functions (filter, mix, heating, cooling, humidification, etc.); while the air conditioner reduces the cost of the power plant by 40% ~ 60%, the power plant increases the total energy from the system by 5% ~ 15%.

TECHNICAL DETAILS

- Hermetic compressor
- Digital relative humidity measurement from 7 different points
- Digital temperature measurement from 7 different points
- Plate heat exchanger
- Moisturizing filling type water spray
- Last heater power 500W
- Preheater power 1000W
- Radial fan
- Anemometer
- Lamellar condenser with fan
- Compact lamellar evaporator

DIMENSIONS

A x B x H : 1520 x 530 x 1500 mm

PACKAGE INCLUDED

Device, device cover, 1 printed experiment report, circuit diagram and product catalog