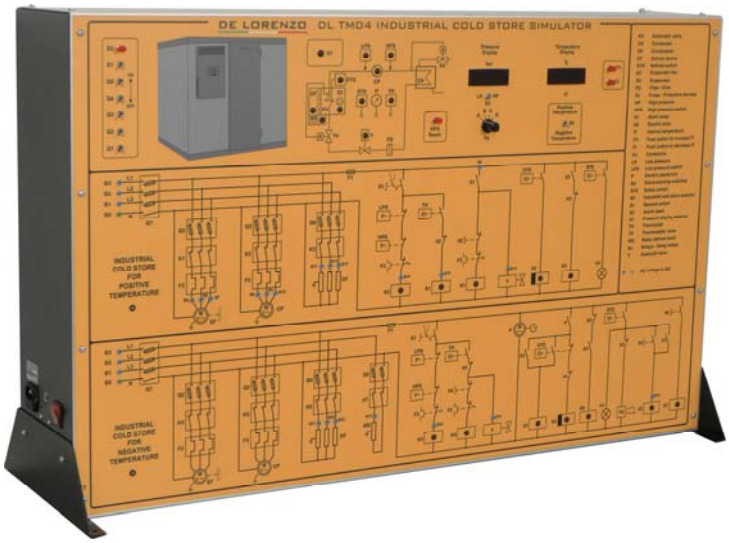
THERMOTRONICS

INDUSTRIAL COLD STORE



DL TM04

The simulator allows the study, the performing of experiments and the troubleshooting for the following systems:

- Positive temperature store for food refrigeration and preservation
- Cold store for the preservation of frozen food

These systems are reproduced on the panel, through a colour representation which allows a complete analysis of the fluid circuit, of its components and of the electrical/electronic circuit for control and regulation.

TRAINING OBJECTIVES

It is possible to simulate the behaviour of components and systems, on the basis of the operating conditions which can be monitored directly on the panel or through Personal Computer by teacher and students.

The Personal Computer constantly keeps under control the simulation in progress and displays its behaviour through analog and digital signals and meters; in this way the student, through measurements and tests, can go on with the troubleshooting.

Dimensions: 0.66 x 1.04 x 0.35 m.
Net weight: 16 kg.
Average training hours: 10 h.

The system is supplied with a Student Navigator software that allows students to perform their learning activities through a Personal Computer, without the need for any other documentation.

Moreover, the Student Navigator is provided with an interface to the Laboratory Management software.

TECHNICAL DESCRIPTION

The positive temperature store for food refrigeration and preservation is composed of the following main elements:

- Three-phase motor compressor group
- Waste water condenser
- Automatic thermostatic valve
- Forced convection evaporator operated by a three-phase motor
- Electro valve for the liquid
- Defrosting resistance battery
- Regulation thermostat
- Defrosting thermostat
- Safety thermostat
- Low pressure switch
- High pressure switch

The cold store for the preservation of frozen food is composed of the following main elements:

- Three-phase motor compressor group
- Water condenser, supplied by a water thermostatic valve
- Automatic thermostatic valve
- Forced convection air refrigerator evaporator (three-phase fan)
- Electro valve for the liquid
- Defrosting resistance battery
- Discharge and dripping resistance
- Motorized pendulum for defrosting control
- Visual and sound alarm device
- Regulation thermostat
- Defrosting thermostat
- Safety thermostat
- Low pressure switch
- High pressure switch