

**Product Name :**  
Astra Scientific Refrigeration Assembly and Maintenance Accessories

**Product Code :**  
RefrigerationLab0012



**Description :**

Astra Scientific Refrigeration Assembly and Maintenance Accessories

**Technical Specification :**

The unit trainees can learn working within a complex project. This involves the planning, implementation and checking of processes related to assembly, commissioning and maintenance. The assembly relates to refrigeration installation: installation of the LP and HP pressure switches, the expansion valve and the pipework of the refrigeration circuit. The pipe joints are not soldered but bolted. The electro technical installation includes the wiring and connection of all units and switching elements.

The experiment is arranged on a workbench with drawers for storing the components and tools. Assembly panel and refrigeration chamber are mounted on a frame. Frame, condensing unit and switch cabinet are bolted permanently to the working surface. The refrigeration and electrical components are attached to the aluminum assembly panel.

**FEATURES:**

- Planning and executing assembly steps and processes
- Making pipe joints in accordance with a system diagram

- Carrying out electrical installation in accordance with a circuit diagram
- Filling and evacuating of the refrigeration system
- Commissioning and checking the refrigeration system after successful assembly
- Assembly of a refrigeration system from individual components

**SPECIFICATION:**

- Condensing unit

Power consumption: 190W

Refrigeration capacity: 373W at 5°C evaporation temperature

- Receiver: approx. 1L
- Show case evaporator

Capacity: 50W at  $t_0 = -6^\circ\text{C}$ ,  $\Delta T = 8\text{K}$

Transfer area: 1,06m<sup>2</sup>

- Refrigeration chamber with sight window

LxWxH: 480x280x390mm

Aluminum assembly panel

LxW: 710x500mm

Thermostatic expansion valve, adjustable

Thermostat, adjustable: -30...15°C

- Required for operation

230V, 50Hz, 1 phase

230V, 60Hz, 1 phase



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