

ET 910.13

Maintenance set



Tools, multimeter and leak detector are not shown.

Description

- filling and evacuating of refrigerant systems
- leak detector, digital multimeter and a set of tools are included
- suitable for refrigerant R513A

ET 910.13 is used to fill and evacuate refrigeration systems as well as performing maintenance tasks and troubleshooting. The maintenance set includes a filling station, a set of tools, a digital multimeter, and a leak detector. The components used are common in refrigeration and therefore closely related to practice.

The refrigeration system is evacuated using a vacuum pump. Evacuation using the vacuum pump removes air and humidity from the refrigeration system to allow subsequent filling with refrigerant. The correct amount of refrigerant is monitored using the filling balance.

The equipment is designed for the refrigerant R513A.

Learning objectives/experiments

- performing maintenance tasks
 - ▶ filling of a refrigeration system
 - ▶ evacuation of a refrigeration system
- leak detection in refrigeration systems
- setting of primary and secondary controllers

Specification

- [1] unit for maintenance tasks and troubleshooting in refrigeration systems
- [2] filling station for filling and evacuating refrigerant
- [3] vacuum pump and filling balance
- [4] manometer for intake pressure, high pressure and cylinder pressure; vacuum meter
- [5] manometer for intake pressure and high pressure
- [6] digital multimeter
- [7] leak detector, battery-operated

Technical data

Filling cylinder: 1000g

Measuring ranges

- pressure: -1...10bar, -1...30bar
- vacuum: 0...1000mbar
- cylinder: -1...25bar
- temperature: -60...40°C, -60...85°C

230V, 50Hz, 1 phase

230V, 60Hz, 1 phase

120V, 60Hz, 1 phase

LxWxH: 510x175x485mm (filling device)

Weight: approx. 15kg (filling device)

Scope of delivery

- 1 filling station with hoses
- 1 set of ring spanners
- 1 set of straight screwdrivers
- 1 set of Allen keys
- 1 multimeter
- 1 leak detector

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Required accessories

ET 910	Refrigeration training system, base unit
ET 910.11	Refrigeration components for advanced experiments