

ET 910.13

Maintenance set



The illustration shows a similar filling device. Tools and multimeter are not shown.

Description

- **filling and evacuating of refrigerant systems**
- **suitable for refrigerant R134a**

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 filling station uses a vacuum pump for draining and evacuating refrigerant. Then, the system can be filled with the correct amount of refrigerant. The equipment is designed for the CFC-free refrigerant R134a.

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 with temperature scale for refrigerant R134a
- [6] digital multimeter
- [7] leak detector, battery-operated

Technical data

Filling cylinder: 1000g R134a

Measuring ranges

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

230V, 50Hz, 1 phase
 230V, 60Hz, 1 phase
 120V, 60Hz, 1 phase
 LxWxH: 510x175x485mm (Füllstation)
 Weight: approx. 15kg (Füllstation)

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

061.91000	ET 910	Refrigeration training system, base unit
061.91011	ET 910.11	Refrigeration components for advanced experiments