WL 312.12
Condensing unit

Description

- **supply of refrigerant for WL 312**
- **display of refrigerant pressures and flow rate**

The main function of WL 312.12 is to provide compressed and subsequently condensed refrigerant for experiments with WL 312. Together with the WL 312.03 refrigerant evaporator, this results in a complete refrigeration circuit.

The condensing unit compresses the refrigerant and then condenses it in the condenser. The liquid refrigerant, under high pressure, flows via a refrigerant hose into the evaporator WL 312.03 (feed). From the evaporator, the low pressure gaseous refrigerant flows back into the condensing unit (return) via another refrigerant hose.

The pressures of the refrigerant are displayed on the high pressure side and the low pressure side. A rotameter indicates the refrigerant flow rate.

Specification

[1] device for providing refrigerant for experiments in WL 312
[2] main components: compressor, condenser, filter/dryer, receiver
[3] one sight glass with humidity indicator for monitoring the aggregate state of the refrigerant
[4] pressure switch to protect the compressor
[5] 2 manometers with temperature scale for the refrigerant show the values of the refrigerant on the high and low pressure side
[6] flow measurement via rotameter
[7] refrigerant R513A, GWP: 632

Technical data

Condensing unit
- refrigerant quantity: 1,5kg
- refrigeration capacity at evaporating temp. 5°C: 1029W
- receiver volume: 1,1L

Refrigerant
- R513A
- GWP: 632
- filling volume: 1,5kg
- CO_2-equivalent: 0,9t

Measuring ranges
- pressure: -1...9bar (low pressure side)
- pressure: -1...24bar (high pressure side)
- flow rate: 4...40L/h

230V, 50Hz, 1 phase
230V, 60Hz, 1 phase
230V, 60Hz, 3 phases
UL/CSA optional
LxWxH: 1000x750x1300mm
Weight: approx. 90kg

Scope of delivery

1 supply unit
1 set of tools

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Required accessories

WL 312	Heat transfer in air flow
WL 312.03	Heat transfer on refrigerant evaporator