

WL 312.11

Water chiller



Specification

- [1] device for cold water supply for experiments with WL 312 and WL 315C
- [2] main components: refrigeration system, water tank, centrifugal pump
- [3] flow rate adjustable via valves
- [4] flow measurement via rotameter
- [5] measurement of temperatures in feed and return
- [6] refrigerant R513A, GWP: 631

Technical data

Refrigeration system
Refrigeration capacity: 3kW

Pump
 ■ max. flow rate: 0,5m³/h
 ■ max. head: 3bar

Tank: 33L

Refrigerant
 ■ R513A
 ■ GWP: 631
 ■ filling volume: 1100g
 ■ CO₂-equivalent: 0,7t

Measuring ranges
 ■ flow rate: 50...650L/h
 ■ temperature: 2x -50...250°C

230V, 50Hz, 1 phase
 230V, 60Hz, 1 phase
 230V, 60Hz, 3 phases
 UL/CSA optional
 LxWxH: 1100x750x1350mm
 Empty weight: approx. 180kg

Scope of delivery

- 1 supply unit
- 1 set of hoses
- 1 set of accessories
- 1 manual

Description

- cold water supply for WL 312 and WL 315C
- display of temperatures and flow rate

The main function of WL 312.11 is to provide a cold water circuit for experiments with WL 312 and WL 315C. The supply of cold water enables meaningful operation at high ambient and water temperatures.

The supply unit is equipped with a closed cooling unit including refrigerant circuit, a water tank and a pump for the cold water circuit as well as a switch cabinet with displays and controls.

The supply unit cools the water in the water tank. A pump transports the cooled water from the water tank through hoses to the WL 312 or WL 315C trainer (feed).

From the WL 312 or WL 315C trainer, the water flows back into the water tank of the supply unit (return) via pipes.

The flow rate in the cold water circuit is adjusted by means of valves.

The temperatures of the water in the flow pipe and in the return pipe are displayed. The flow rate is displayed by means of a rotameter.

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Required accessories

WL 312 Heat transfer in air flow
or
WL 315C Comparison of various heat exchangers