

WL 320.03

Cooling column, type 4



Learning objectives/experiments

- determination of the cooling capacity

Specification

- [1] additional cooling column for the wet cooling tower WL 320
- [2] cooling column made of transparent plastic
- [3] connections to measure the pressure loss with WL 320

Technical data

Packing density

- $0\text{m}^2/\text{m}^3$

Cross-section: 150x150mm

LxWxH: 210x210x630mm

Weight: approx. 3kg

Scope of delivery

- 1 cooling column type 4

Description

- cooling column without wet deck surface

- use of wet deck surfaces of your own design

WL 320.03 contains a cooling column without a wet deck surface. The cooling column type 4 is placed into WL 320 instead of the column type 1. The heat transfer in the free water drop can be studied using this cooling column.

It is also possible to insert wet deck surfaces of your own design into the cooling column. The cooling capacity of the different columns is compared.

On top of the cooling column, a nozzle is mounted. The hot water is sprayed at the top of the cooling tower, trickles from the top to the bottom along the wet deck surface and is cooled in the process. The air enters the column from the bottom and flows upwards.

The cooling column is fitted with connections for differential pressure measurement at its inlet and outlet.

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Required accessories

WL 320 Wet cooling tower