

WL 320.01

Cooling column, type 2



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] wet deck surface made of plastic
- [4] connections to measure the pressure loss with WL 320

Technical data

Specific surface of the wet deck surface

- $77\text{m}^2/\text{m}^3$

Cross-section: 150x150mm

LxWxH: 210x210x630mm

Weight: approx. 5kg

Scope of delivery

- 1 cooling column type 2

Description

■ cooling column contains small wet deck surface

Cooling columns contain wet deck surfaces. The cooling capacity of a cooling column is determined by the surface of these wet deck surfaces.

WL 320.01 contains a small wet deck surface. The cooling column type 2 is placed into WL 320 instead of the column type 1. The cooling capacity of both 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