

# Dry cooling tower

# TT-300'000

300 kW cooling capacity

Closed cooling water circuit without cooling compressor

Ideal complement to new or existing cooling installations

No unnecessary water consumption due to a closed water circuit

## Operating principle

The unit is equipped with two stainless steel heat exchangers placed laterally. Four high-performance fans on the top of the unit generate an air flow through the heat exchangers. The cold ambient air circulates through the heat exchangers and detract heat out of the process water. The air is blown out on top of the unit by the fans. A suction tank is installed before the pump. It guarantees a problem free working of the unit and prevents the pump from dry run.

## Advantages of a closed cooling tower

On contrary to an open cooling tower there is no cooling water consumption. The close system also prevents the cooling water circuit from being soiled. The water temperature depends on the ambient air temperature. Therefore the reachable temperature of the circulating water is approx. 10°C - 15°C higher than the air temperature.

## Particularities

- The heat exchangers and the pipe work are completely manufactured from stainless steel.
- Separate control panel for inside use. The max. air temperature until the dry cooling tower should run is adjustable on the upper controlling instrument.



## External control panel



**Temperature controller for air temperature**  
As soon as the set temperature is exceeded, the complete unit switches off.

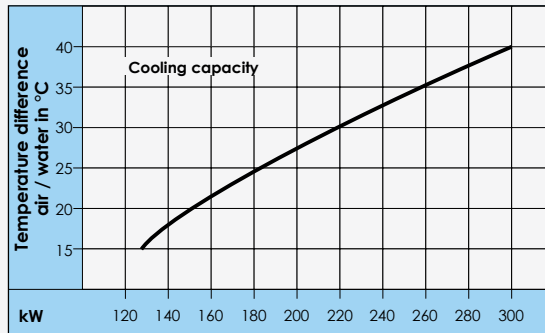
**Temperature controller for water temperature**  
As soon as the set temperature is reached, the fans switch off. The fans switch on again as soon as the water temperature increases by 3°C.

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## Installation

The model TT-300'000 is designed for outside use.  
Roof protection during winter times is recommended.

Separate control panel for inside use.



## Temperature control

self-optimizing, electronic microprocessor controller MP-888 with digital display of the set and actual value.  
Automatic temperature monitoring.

## Heat exchanger

made of stainless steel

## Cooling capacity

Nominal

**300 kW - see diagram**

## Pump capacity

approx. 600 l/min. with suction device for ground tank

## Ventilators

4 pieces, each with 1,1 kW power consumption  
air inlet located on side, blow out located on top

## Air volume

4 x 8'000 m<sup>3</sup>/h

## Power consumption

**approx. 6,8 kW**

## System

separate water tank with process pump  
from water tank to consumer is required

## Dimensions (LxWxH)

3'350 x 1'300 x 2'090 mm, incl. feets

## Noise level (in 3 m distance)

68 dBA

## Weight

1'400 kg empty

## Control panel

delivered for separate inside use

## Colour

silvergry RAL 7001

## Working principle

