

# TT-300'000

## Closed cooling tower

Closed cold water circuit without cooling compressor

- ideal addition to the extension of a refrigeration plant
- for outdoor or indoor use



Cooling capacity **300 kW** nominal

Power consumption approx. **6.8 kW**

Pump capacity approx. 600 l/min



## Working 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

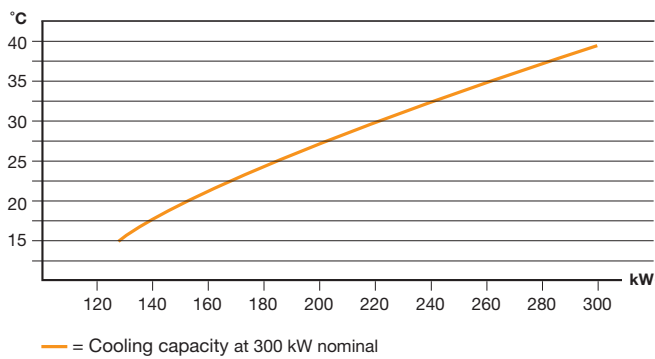
## External control panel



## Particularities

- The heat exchangers and die 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

## Cooling capacity



## Device installation

### Installation

The model TT-300'000 is designed for:

- Outside use
- Roof protection during winter times is recommended
- Separate control panel for inside use

## Technical data

| Product attribute                   | Unit | TT-300'000   |
|-------------------------------------|------|--|
| Temperature control                 |      | Self-optimizing, electronic microprocessor controller MP-888 with digital display of the set and actual value. Automatic temperature monitoring. |
| Cooling capacity (Nominal capacity) | kW   | 300 kW - see diagram   |
| Heat exchanger                      |      | Made of stainless steel  |
| 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                   | kW   | Approx. <b>6,8 kW</b>  |
| System                              |      | Separate water tank with process pump from water tank to consumer is required  |
| Dimension (L×W×H)                   | mm   | 3'350×1'300×2'090 mm, incl. adjustable feet  |
| Noise level (in 3 m distance)       | dBA  | 68 dBA   |
| Weight                              | kg   | 1'400 kg empty   |
| Control panel                       |      | Delivered for separate inside use  |
| Colour                              |      | Silvergrey RAL 7001  |

