

ET 833.02

Cooling tower 115kW



Learning objectives/experiments

- energy balance

Specification

- [1] wet cooling tower with fan and pump for operation with ET 833
- [2] use of corrosion-resistant materials
- [3] instrumentation at the inlet: thermometer, manometer, flow meter

Technical data

Cooling tower

- cooling capacity: approx. 115kW
- water flow rate 9m³/h
- fan max.: 3900m³/h at 1450min⁻¹
- pump max.: 19,2m³/h

Measuring ranges

- temperature: 2x 0...80°C
- pressure: 1x 0...2,5bar, 1x 0...6bar
- flow rate: 0...20m³/h

400V, 50Hz, 3 phases

400V, 60Hz, 3 phases

230V, 60Hz, 3 phases

UL/CSA optional

LxWxH: 1690x850x1810mm

Weight: approx. 120kg

Required for operation

water connection 200L/h

Scope of delivery

- 1 cooling tower

Description

- compact cooling tower for ET 833 steam power plant operated at ambient temperatures below 27°C

The cooling tower is connected to ET 833 for both power and water supply.

This forced draught wet cooling tower is integrated into the cooling water circuit of the ET 833 steam power plant. It provides recooling for the condenser cooling water used in the steam power plant. Evaporation losses are automatically compensated for. Temperature, air humidity and water flow rate at the inlet and outlet of the cooling tower can be read directly on the device.

The design emphasises the use of corrosion-resistant materials since the cooling tower is usually operated in the open air.