



SCRUBBER

Description

This cooling system was designed and manufactured in order to cool the oil of the hydraulic supplier for one of our fatigue test stand.

The SCRUBBER – heat exchanger is a basic element of the cooling system. Its objective is cooling of working oil in a closed system to keep the oil temperature below 50°C. Oil cooling is carried out in a shell-and-tube heat exchanger using water as the coolant.

This cooling system has been found to be very effective and has the additional advantage that the sealed water circulation reduces water loss to a minimum.

Technical data

- Heat exchanger parameters:
 - dimensions:
 - height 1800 mm
 - diameter Ø958 mm
 - work parameters:
 - water temperature input 37°C
 - water temperature output 24°C
 - air temperature input 10–20°C
 - air temperature output 15–25°C
- Water pump parameters:
 - power 0.25 kW
 - flow rate 6.3 m³/h
- Ventilator parameters:
 - power 0.35 kW
 - flow rate 1300 m³/h