BET 016

DIDATEC TECHNOLOGIE

Heat Exchanges Unit – Viscous Fluid/Water

DESCRIPTION

- **Oil (viscous behavior) heated by a thermoregulator (closed circuit) goes through an exchanger equipped with concentric and cylindrical tubes where it heats water that is flowing in an open circuit.**
- **The instruments provided with the unit permit measurement of temperatures and flow rates of the fluids. This allows one to deduce the influence of laminar flow on the coefficient of exchange.**
- **The unit is delivered complete with instrumentation and with technical documentation and instructions.**

SUGGESTED APPLICATIONS

Operation of a concentric tube heat exchanger with cocurrent and counter current flow.

Determination of the coefficients of exchange for laminar flow in a viscous fluid.

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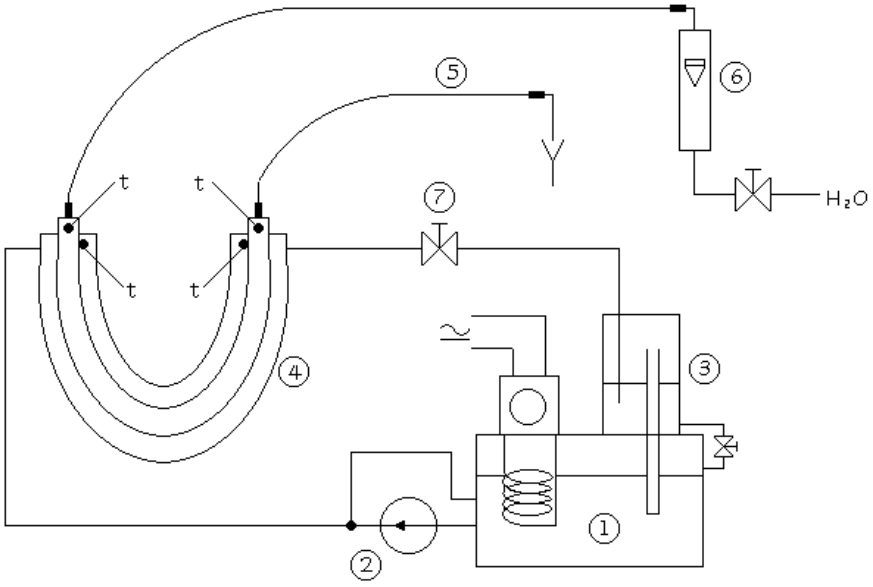

1. Oil tank with thermoregulator group (500 W)
2. Pump
3. Buffer oil tank for the measurement of flow rate.
4. Exchanger with concentric and cylindrical tubes
5. Flexible tubing with fast connections (concurrent or counter current)for water flow
6. Water flow meter
7. Regulation valve for oil flow

Four temperature measurements

UTILITIES

Electricity : 230 V single-phase 50 Hz – ≅ 0.6 kW
Water : 120 l/h

DIMENSIONS

Length : 450 mm
Width : 630 mm
Height : 620 mm
Weight : 45 kg