PBC 100

DIDATEC TECHNOLOGIE

Capillary viscometer

DESCRIPTION

- **The capillary viscometer is delivered complete with instrumentation and includes a technical and instruction manual.**
- **The liquid to be studied is placed in a thermostatically controlled pressurized container which is connected to a capillary tube that is also found in a thermostatically controlled environment. The liquid is continuously agitated to ensure that it remains homogeneous. The unit can be dismantled.**

SUGGESTED APPLICATIONS

From measurement of flow and loss of pressure in the capillary, the viscometer can be used: :

- For a study of Poiseuille (laminar) flow of a known viscosity liquid
- To determine precisely the radius of the capillary tubes
- To measure the dynamic viscosity of a liquid and to study how this varies with temperature
- To study the shear force in viscous fluids and rubbing forces on the tubes during laminar flow.

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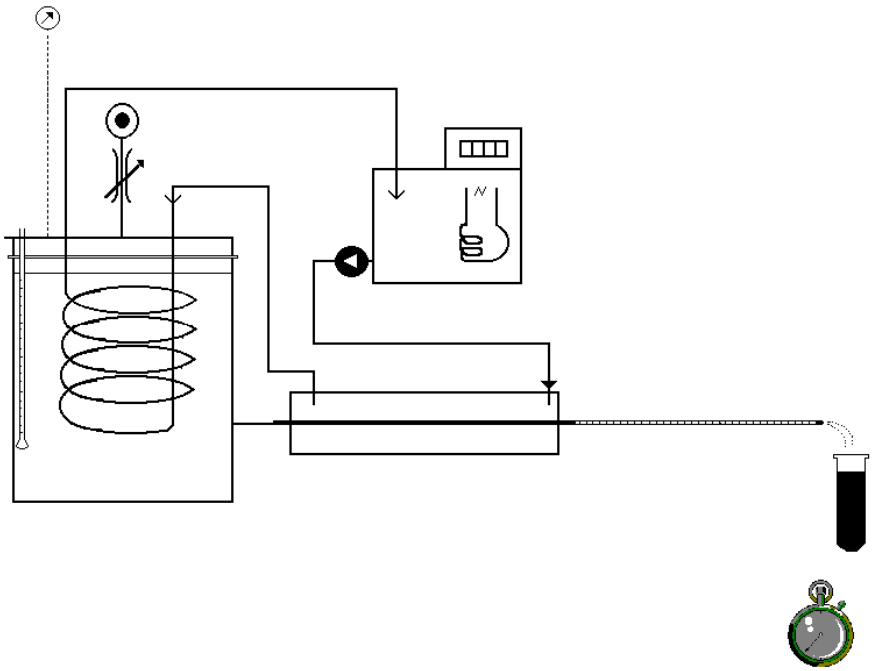

Control and measurement appliances

The unit is manufactured with :
- A manometer – Tube of Bourdon Ø160
- A thermometer
- A stopwatch for level measurement
- Two graduated pipettes
- A heat regulated bath
- A magnetic agitator

Characteristics

Capillary tubes : 0.2 mm and 0.4 mm - length 400 mm
Temperature scale : 90°C to ± 0,5°C
Pressure scale : 0 – 1 bar

UTILITTIES

Electricity : 230 V single phase - 50/60 Hz
Compressed air: 1 bar minimum

DIMENSIONS

Length : 760 mm
Width : 560 mm
Height : 600 mm
Weight : 60 kg