

## BALL DROP VISCOMETER

### REFERENCE : EH101

The ball drop viscometer, EH101, is used to measure the kinematic viscosity, and thus to deduce the dynamic viscosity, for translucent liquids. The viscosity of a fluid characterizing its resistance to flow, it is considered that the study of the displacement of a body in a stationary liquid is identical to that of the flow of the fluid around this static body. By measuring the falling speed of a spherical ball in a vertical tube filled with the fluid to be studied, it is possible to deduce the kinematic viscosity. Indeed, during the phase of uniform rectilinear motion, the different forces that apply to the ball, namely the gravity, the Archimedes thrust and the drag force related to the viscous friction, are in equilibrium.

- Determination of the kinematic and dynamic viscosities of translucent liquids
- Determination of the drag coefficient of balls or other models (not supplied)

### Technical specifications :

- A support panel to position on a wall
- 2 Altuglas tubes, lit by a tube of neon
- 2 bins and 2 ball recovery valves and tube emptying
- 1 set of balls of different diameters and materials (stainless steel, aluminum, plastic)
- 1 stopwatch

*Non contractual photo*

**SERVICE : POWER SUPPLY (220 V, 50 HZ, SINGLE PHASE)**

**DIMENSIONS : 1500 X 450 X 200 MM**

**WEIGHT : NET WEIGHT: 18 KG**