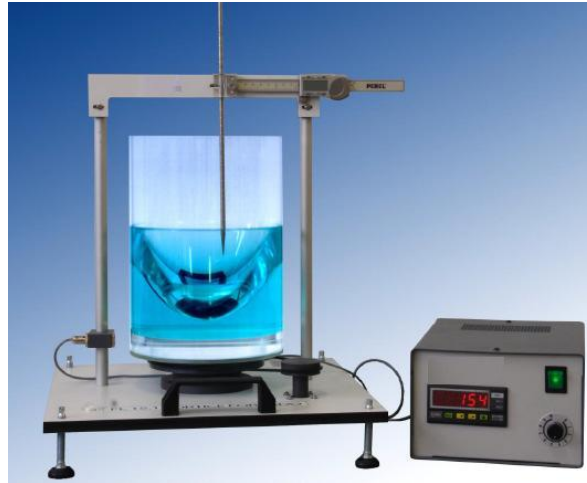




FORCED VORTEX



DL DKL151

This system is designed to provide to the students the possibility to reproduce and study a paraboloid generated in a liquid when it is subjected to a uniform rotation. This is a simple system that does not require particular installation and it can be easily placed in the laboratory.

It is possible to use fluids with different densities in order to determine the influence in the creation of the parable.

FEASIBLE PRACTICES

- Study of a paraboloid generated by a liquid subjected to uniform rotation.
- Study of the changes in the generated paraboloid by changing the speed rate.

TECHNICAL DATA

Tank:

- Material: methacrylate.
- Cylindrical tank: $\varnothing 200 \times 275$ mm
- Inner diameter tank: $\varnothing 200 \times 275$ mm

Accessories:

- Distance meter (horizontal axis) with precision a hundredth of a millimeter.
- Vertical height meter with every 10mm latching.

Motor:

- DC motor Torque: 0.50Nm
- Current: 1.5A

Additional elements:

- Digital programmable control
- Photoelectric detector
- Speed regulator

Requirements:

Single Phase Power Supply