

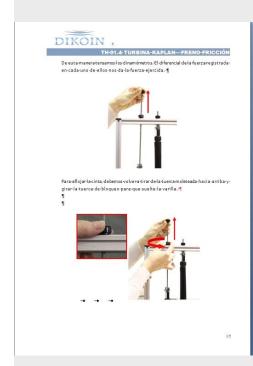


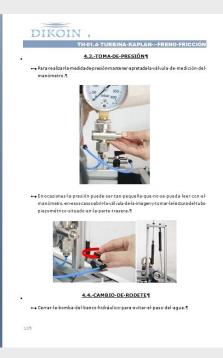
The TH 01.4 equipment simulates a small-scale installation with a Kaplan turbine.

The equipment comes with 3 propellers with different input and output angles, which can be exchanged quickly and easily.

The equipment is designed for the study and display both the behavior and the characteristics of a Kaplan turbine.

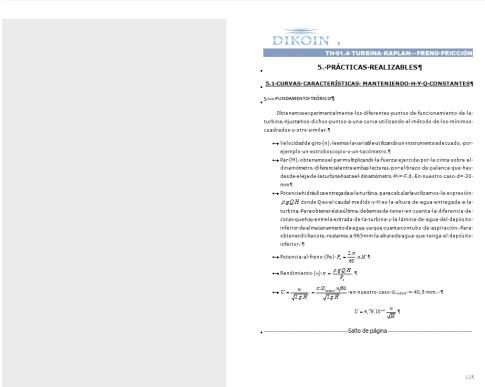








The user manual clearly shows and with a large number of images, the entire process to be followed to operate the equipment.

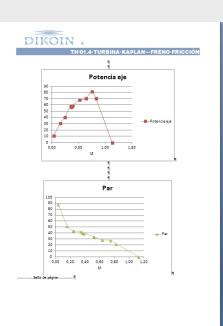


The practical manual shows and explains all the theoretical foundations, as well as the mathematical formulas used for the

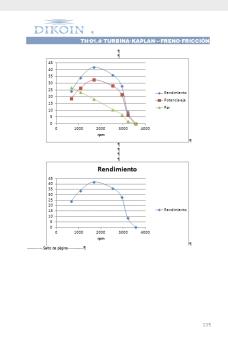
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realization of all the experimentation.

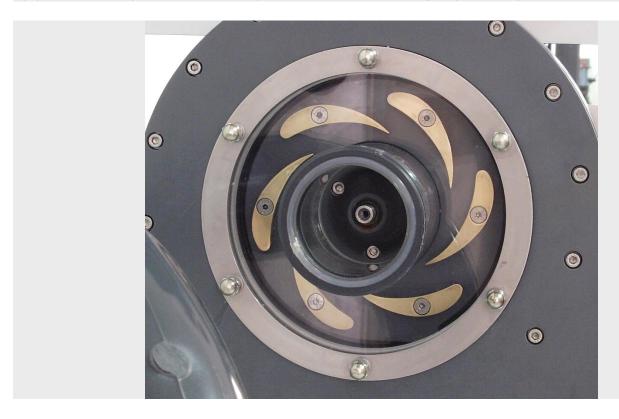




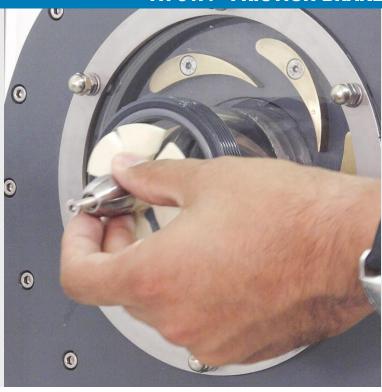




Together with the user manual, a completely resolved manual is given with the data to be obtained during the practice with the equipment. In this way, the teacher can easily check if the students are doing the job correctly.











LEARNING OBJECTIVES

- Turbine characteristic curves:
 - Torque speed (M-n) *.
 - Brake power speed (Pe- n) *.
 - Performance speed (η- n).*
 - Torque U (M-U).
 - Brake power U (Pe- U).
 - Performance U (η- U).
- Iso-performance curves.

TECHNICAL DATA

Manovacuometer:

• Bourdon type with glycerin.

Brake Type:

• Friction Brake.

Turbine:

- Type: Kaplan
- Number of runner blades: 4
- Angle of the wheel blades: Variable, through an exchange of propellers.
- Guide wheels

Dynamometers:

• 2 x Dynamometer 5 kg x 25 gr.

REQUIREMENTS

- Hydraulics Bench FL 01.7.
- * For the measurement of the rotation speed is required a tachometer or an stroboscope.

NOTE

The image shown is indicative.