

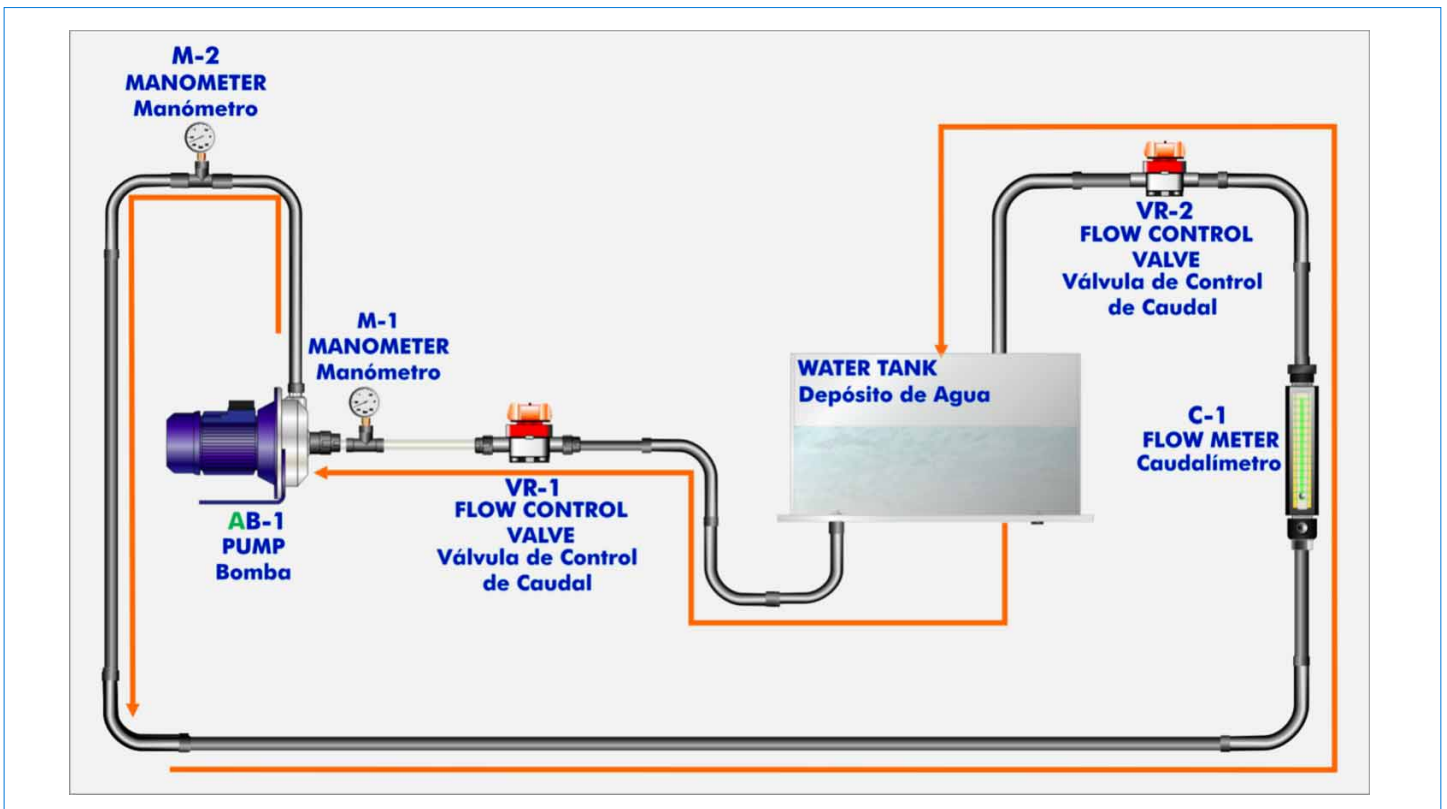
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- ↳ 8.-Fluid Mechanics & Aerodynamics



Electronic console

### PROCESS DIAGRAM AND ELEMENTS ALLOCATION



ISO 9000: Quality Management  
(for Design, Manufacturing,  
Commercialization and After-sales service)



European Union Certificate  
(total safety)



Certificates ISO 14000 and  
ECO-Management and Audit Scheme  
(environmental management)



Worlddidac Quality Charter  
Certificate  
(Worlddidac Member)

## SPECIFICATIONS

Bench-top unit.

Anodized aluminium structure and panels in painted steel.

Main metallic elements in stainless steel.

Diagram in the front panel with similar distribution to the elements in the real unit.

Centrifugal pump:

Maximum flow: 80 l/min.

Maximum height (approx.): 20 mwc (meter of water column).

Pump-and-engine-set coupled to an AC motor.

Speed of the pump adjustable from speed controller.

Regulation valves.

Water transparent tank, capacity: 60 l.

Discharge manometer, range: from 0 to 2.5 bar.

Admission manometer, range: from -1 to 1.5 bar.

Flow meter, range: from 0-100 l./min.

Torque and speed measurement.

Electronic console:

Metallic box.

Speed controller.

Torque measurement display.

Speed measurement display.

Cables and accessories, for normal operation.

Manuals:

This unit is supplied with the following manuals: Required Services, Assembly and Installation, Starting-up, Safety, Maintenance & Practices Manuals.

## EXERCISES AND PRACTICAL POSSIBILITIES

Some Practical Possibilities of the Unit:

1.-Demonstration of a centrifugal water pump in operation.

2.-Introduction to pump speed laws.

3.-Obtaining of curves  $H(Q)$ ,  $N(Q)$  and  $Eff\%(Q)$ .

4.-Obtaining of the map of a centrifugal pump.

5.-Adimensional study of magnitudes  $H^*$ ,  $N^*$  and  $Q^*$ .

6.-Cavitation test and obtaining of curves NPSH<sub>r</sub>.

## REQUIRED SERVICES

-Electrical supply: single-phase, 220 V/50 Hz. or 110 V/60 Hz.

-Water supply and drainage.

## DIMENSIONS & WEIGHTS

PBCB:

Unit: -Dimensions: 1500 x 700 x 800 mm. approx.

-Weight: 90 Kg. approx.

Electronic Console : -Dimensions: 490 x 330 x 310 mm. approx.

-Weight: 10 Kg. approx.

## AVAILABLE VERSIONS

Offered in this catalogue:

-PBCB. Centrifugal Pump Bench.

Offered in other catalogue:

-PBCC. Computer Controlled Centrifugal Pump Bench.

\*Specifications subject to change without previous notice, due to the convenience of improvements of the product.



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