ERS200

SOLAR DOMESTIC WATER HEATING

Experimental capabilities

- **Study of solar panel.**
- **Study of the output.**
- **Setting up of thermal results.**
- **Calculation of efficiency.**
- **Calculation of thermal output.**
- **Comparison of efficiency.**
- **Hydraulic connecting**
- **Electric wiring.**
- **Set up.**
- **Adjustment.**

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ERS200

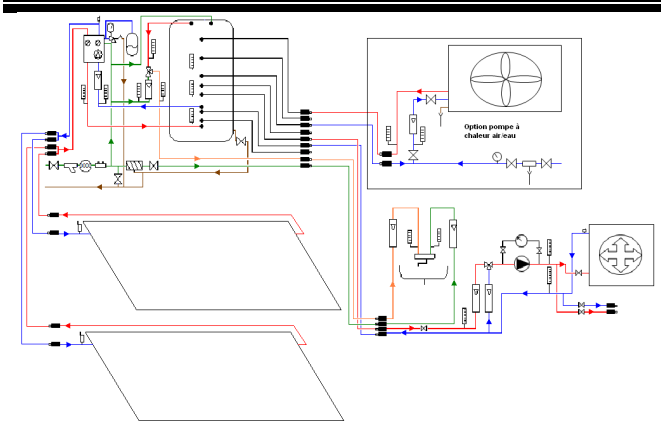
Operating principle

The bench ERS 200 allows the study of Solar panel exchanger.Accumulator.
The user himself performs wiring of the control loop.
The system is designed to allow the user to see the effect of parameter settings to control the behavior (response) system
The setting values of the control parameters can be adjusted via the software provided via the USB connector located on the cabinet of the machine.
Programs incorporating reference parameters setting "factory" are also provided to allow you, at any time to reset the machine.

The robust design of this device makes it suitable for use in schools.
The equipment is set up on an Anodized aluminium frame on casters wheels. This gives it great strength and a flexibility of integration into your premises.
The manufacture of this equipment complies with the European standard for machinery manufacturing.

This equipment can be used alone or with other compatible equipment from our range (see last section of this document).

Illustrations



Technical details

Solar panel :
A solar panel “collector”
Surface : 2.53 x 2 = 5.05 m²

Water heater :
Capacity : 550 l
Resistance : 6 KW

Circulator :
- 2 three speed circulators :
- 1 on the panel circuit.
- 1 on heating circuit.

Dissipation :
Inox sink equipped with tap.

Solar simulation :
Halogen lamp.

Services required

- Electrical supply : 380Vac – 50 Hz
- Dimensions: (LxWxH mm): 2150 x 1150 x 1950
- weight (Kg): 350

Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine

Documentation

- User’s manual
- Technical documentation of the components
- Lab exercises
- Certificate of conformity CE

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