# **VVP100**



# CONTROL UNIT WITH 3 WAYS VALVE



**Experimental capabilities** 

- Identification of components of a heating control loop by three-way valve
- Commissioning of heating control system by three-way valve
- Parameter setting of the controller (heating curve ...)
- Measurement of flow rates, temperatures and pressures

## THE BENCH NEEDS A CONNECTION ON A UNIT OF PRODUCTION AND A DISSIPATION UNIT.

# **VP100**



## **Operating principle**

The VVP100 bench allows the study of a control system by three-way valve. It is composed of a control valve, a water pump, a heating controller and a temperature sensor. Students will initially connect the system on a production module (boiler ...) and a dissipation module (heating floor, radiators, unit heater ...). They will then impoundment and commissioning. They will have to set the controller in order to obtain an operation in keeping with the dissipation units connected. They can also measure the temperatures, flow rates and pressures in order to qualify hydraulically and thermally the system.

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).



(heating curve ...), to the hourly parameters (program, reduced operation ...) and visualization of the measured parameters (temperatures). The outside temperature is simulated by a potentiometer.

### Services required

- Electrical supply : 230Vac 50 Hz 6A
- Electrical network : 1 phase(s) + Neutral + Earth.
- Dimensions: (LxWxH mm): 800 x 500 x 1450
- weight (Kg): 80

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

#### User's manual

**Documentation** 

- Technical documentation of the components
- Lab exercises
- Certificate of conformity CE

### **Recommended equipment**

• Wall mounted boilers u	unit •	Ref : TCF101
• Wall mounted boilers u	unit •	Ref : TCF102
Combustion test unit	•	Ref : TBF059
<ul> <li>Wood pellet boiler</li> </ul>	•	Ref : GRA010
Heater 33kw	•	Ref : AER033
<ul> <li>Radiators unit</li> </ul>	•	Ref : TCF120
<ul> <li>Heating floor</li> </ul>	•	Ref : TCF121
Hydraulic balancing un	nit •	Ref : TCF122
Fan coil unit	•	Ref : TCF124

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