STL600

PLATE HEAT EXCHANGER STUDY UNIT

Experimental capabilities

- **Study of a plate thermal exchanger**
- **Calculation of the thermal balance**
- **Calculation of effectiveness of the exchanger**
- **Calculation of the exchange coefficient**
- **Influence of the flow rate of cold water**
- **Influence of the hot water temperature**

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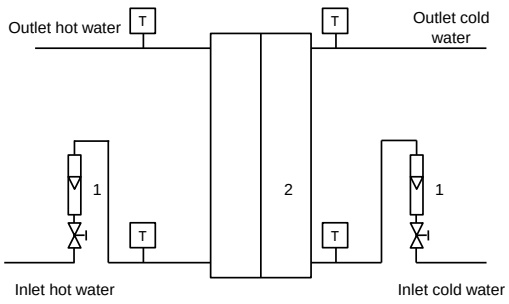
Illustrations



Technical details

1. Flowmeter of cold water and hot water
-Scale from 10 to 100 L/h
-Glass tube
-Stainless floater

2. Brazed plate exchanger
- Input at low point
-Output at high point
-Possibility to switch to counter-current

T. Temperature probe
-Type Pt100
-Connection 3 wires
-Four probes placed at the entrance and exit of the heat exchanger

Instrumentation:
The bench includes a digital display for temperature probes. It simultaneously displays four temperatures. The scrolling can be manual or automatic.

Services required

- Electrical supply : 230 Vac – 50 Hz – 10 A
- Water supply : 1,5 L/min – 3 bars or bench STL 050 (no included)
- Dimensions : (L x W x H mm) : 580 x 400 x 660
- weight (Kg): 20

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

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