TCF122



HYDRAULICS BALANCING UNIT



Experimental capabilities

- Identification of components of a heating system with balancing system
- Analysis of different radiators connection methods
- Commissioning and setting a heating circuit
- Measurement of the flow rates in the columns and balancing

TCF122



Operating principle

The TCF122 bench allows the study of a radiator circuit with balancing system

The user will have to commission the heating circuit (filling, power on) and adjust the various devices (balancing valve, radiator valve, circulator ...) in order to refine the balancing of the hydraulic circuit, the user will use a balancing briefcase dedicated (of TA brand). The briefcase is optionally available.

The robust design of this equipment makes it perfectly suited for use in schools.

Its anodized aluminum structure on wheels makes it extremely robust as well as a great flexibility of integration into your premises. The manufacturing of this equipment meets European machine directive.

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

Illustrations

Technical specifications



1. Aluminum radiators

Quantity: 6

Thermostatic radiator valve at the inlet

Angled radiator lockshield valve and measuring point compatible with the TA balancing briefcases at the outlet

The radiators are connected in 2 columns of three radiators.

2. A balancing valve STAD-type for each column of radiators

3. A balancing valve STAD-type for the general flow rate

4. A filling system with shutoff valve, filter, meter and pressure reducer.

5. Components to control the pressure of the circuit: safety valve, manometer and expansion tank.

6. A variable speed circulator with manometer kit to measure the manometric head

7. An differential valve (to protect the circulator) with flowmeter on the bypass

8. A float flowmeter on the general circuit

Documentation

9. An air trap at the highest point

10. Two self sealing quick couplings for the connection of a production system (boiler or tank)

Services required

- Power supply: 230 Vac 50 Hz 6 A
- Electrical supply Type: 1 phase (s) + Neutral + Earth.
- Water supply: filling 2 bars
- Dimensions: (LxWxH mm): 1600 x 800 x 1790
- weight (Kg): 180

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
- Pedagogical manual
- Technical documentation of the components
- Lab exercises
- Wiring diagram
- P&id diagram
- Certificate of conformity CE

Options

Balancing briefcase TA

Ref : TCF 123

Additional compatible equipment

DIDATEC production systems (oil boilers, gas, wood) and the storage tanks.

Reproduction interdite / copy prohibited—Copyright DIDATEC juin-18- page 2 Dans le cadre de l'amélioration permanente de nos produits, ce descriptif technique est susceptible d'être modifié sans préavis As part of the continuous improvement of our products, this technical specification may be modified without previous notifying

Illustrations non contractuelles / Illustrations not contractual