

RADIATORS



Experimental capabilities

- Identification of the components of a radiator heating system
- Analysis of the different modes of connection of radiators (radiators are supplied in different ways in order to compare the thermal efficiency of the circulation of heating water)
- Commissioning and adjustment of a heating circuit
- Flow measurement in columns and balancing (requires a TCF123 balancing case not included)
- Measurement of general flow, departure/return temperatures and dissipated energy.

Operating principle

The TCF120 trainer allows the study of a radiator circuit with balancing system

The user will have to put into service the heating circuit and adjust the different components (balancing valve, radiator valve). In order to be able to refine the balancing of the hydraulic circuit, the user will use a dedicated balancing case (TA brand). The case is available as an option. Students will then be able to compare the efficiency of the radiators according to the hydraulic connection used (same side, diagonal, bottom)

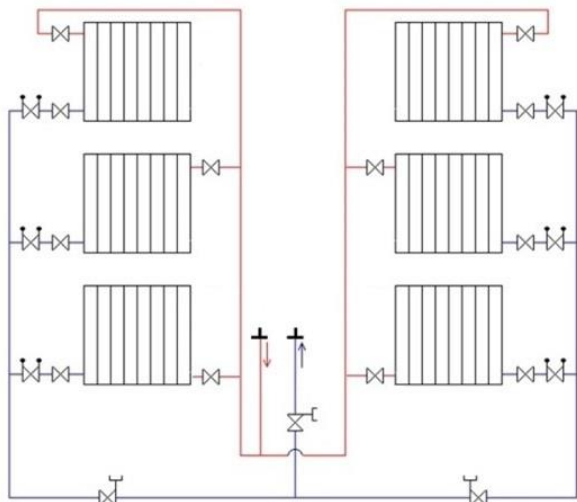
The robust design of this device makes it suitable for use in schools.

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

Aluminum radiators

Quantity: 6

Manual input faucet

Adjustment tee and flow measurement socket compatible with TA balancing tool

The radiators are connected in 2 columns of three.

A STAD-type balancing valve for each radiator column

A STAD-type balancing valve for general flow

An energy meter on the general circuit (flow indication, departure temperature, return temperature and dissipated energy)

Two self-sealing quick couplings for connecting a production system (boiler or tank)

Services required

- Water supply : connection to a main trainer (boiler, tank..)
- Water drain : on the floor
- Dimensions: (LxWxH mm): 1200 x 800 x 1800
- weight (Kg): 140

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
- Hydraulic diagram
- Certificate of conformity CE

Options

- Balancing tool kit

- Ref : TCF123

Recommended equipment

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