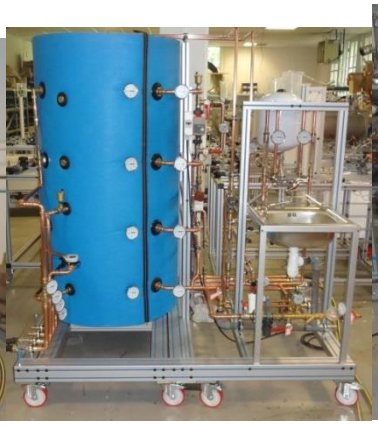
GRA059

STUDY OF A WOOD PELLET BOILER




Experimental capabilities

- **Technological study of a biomass pellets boiler.**
- **Study of heat production and Hot Domestic Water supply.**
- **Commissioning and settings of the biomass pellets boiler.**
- **Measuring operating characteristics variables such as flow, pressure, temperature.**
- **Calculation of balance, efficiencies and capacities**
- **Preventive and corrective unit maintenance**
- **Production and storage of pellets made from wood chips**

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version : FT-GRA059-STD-A

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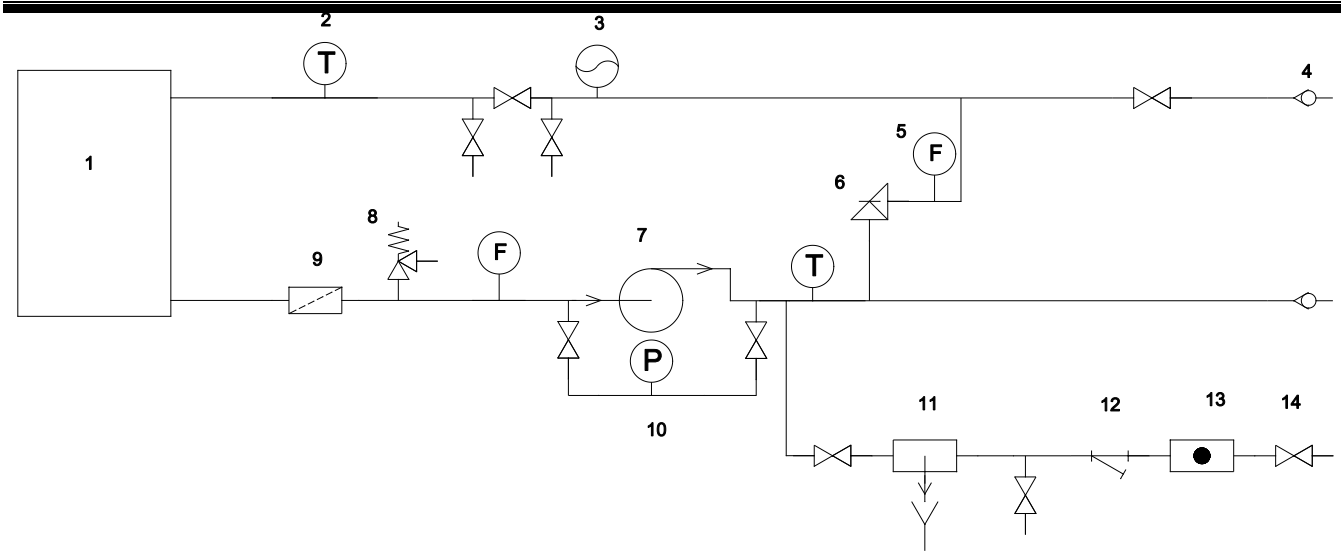
Operating principle

Study installation of a wood pellets boiler allows technological knowledge on pellets heaters, delivered ready to use, instrumented with technical and training handbooks related to pedagogical farm returns
Design, manufacturing, and industrial brand components representative of the market
Full material, safety, control and measurement
Pedagogical interest targeted to different fields and levels of study.
The installation is composed of a frame , a pellet heater, its heat and domestic hot water production, a water circuit with measurements of flow and temperature, a circuit with smoke exhaust , measurement tools, and a quick connecting 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).

Illustrations
Technical details



1 Pellets boiler with condensation
2 Thermometer
3 Expansion Tank
4 Self-sealing connection
5 Flowmeter
6 Differential pressure valve
7 Circulator
8 Safety valve
9 Mud pot
10 Manometer
11 Hydraulic disconnector
12 Strainer
13 Water meter
14 Service valve

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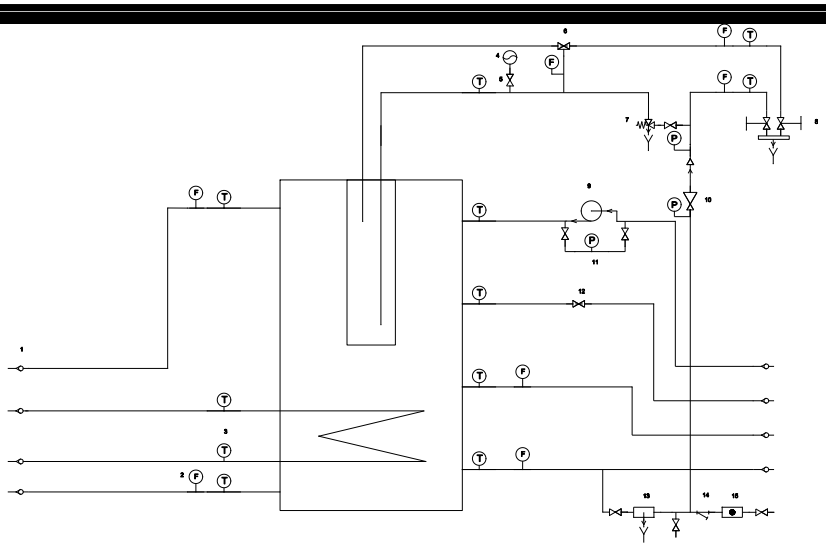
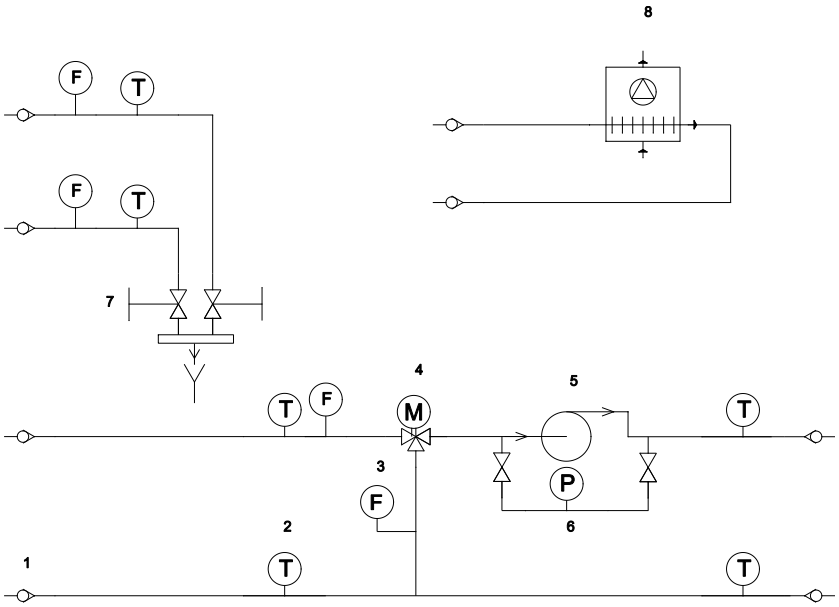


1 Self-sealing connection
2 Flowmeter
3 Thermometer
4 Expansion tank
5 Service valve
6 Thermostatic valve ECS
7 Security group
8 Hand faucet
9 Circulator
10 Expander
11 Manometer
12 Flowrate adjustment valve
13 Hydraulic disconnector
14 Strainer
15 Water meter



1 Self-sealing connection
2 Thermometer
3 Flowmeter
4 Motorized three ways valve
5 Circulator
6 Manometer
7 Hand faucet
8 Unit heater

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Services required

- Electrical supply : 230 Vac – 50 Hz – 16 A
- Water supply : 15 L/min – 3 bars
- Water drain : on the floor
- Smoke exhaust: diameter 125 mm
- Other volume:
- Tank unit :2000 x 1000 x 2200
- Dissipation unit :1800 x 800 x 1800
- Dimensions heater: (LxWxH mm): 2350 x 880 x 1700
- weight (Kg): 450

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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