

GAS BURNER SIMULATION TRAINER



Experimental capabilities

- Study of the burner and understanding of electrical diagrams
- Electrical wiring of the burner and measures
- Burner settings (baffle position, air damper, pressure and flow measurements)
- Commissioning, observation of operation and analysis of parameters
- Burner maintenance (diagnosis and troubleshooting)

Operating principle

The SIM070 bench allows the study of a gas burner for a floor boiler. It is designed to teach students the installation of a burner (wiring ..), commissioning (gas valve settings, regulator, pressure switches ..) and troubleshooting (fault simulation).

The operation of the burner is fully simulated, there is no firing. The fuel is replaced by compressed air. The flame is simulated with lamps.

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.

Technical details

The bench includes at least the following elements:

1. Cuenod gas burner for floor boilers
 2. A burner support and a box designed to simulate the boiler. The box contains an air compressor for the simulation of natural gas.
 3. A box with the burner terminals shown. Cabling is via double-well cords
 4. A box with the boiler terminals shown. The box is equipped with a regulation thermostat and a safety thermostat
 5. A power box with protections and emergency stop button
 6. A fault simulation system to generate a dozen common failures
 7. A flowmeter for measuring fuel flow
 8. A measure of the gas pressure
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Services required

- Electrical supply : 230 Vac – 50 Hz – 10 A
- Electrical network : 1phase(s) + Neutral + Earth.
- Dimensions: (LxWxH mm): 800 x 1200 x 1200
- 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

Documentation

- User's manual
- Technical documentation of the components
- Lab exercises
- Wiring diagram
- Certificate of conformity CE