

## Combustion unit - 70 KW

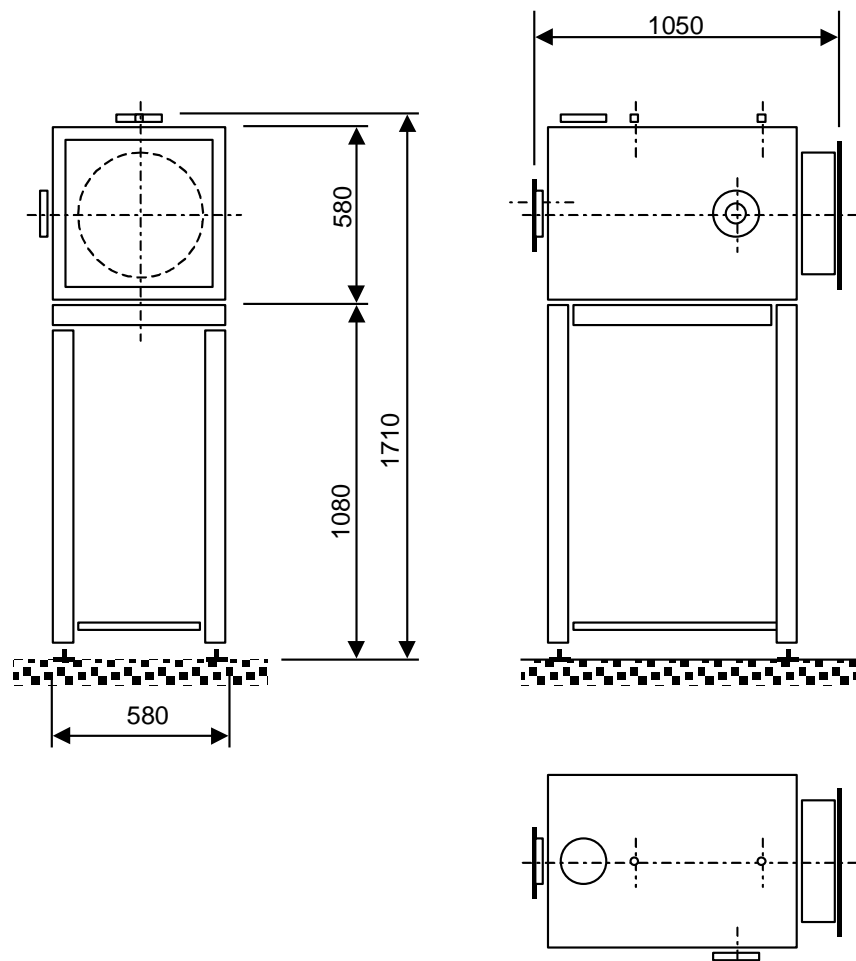
### DESCRIPTION

- The combustion unit is delivered complete with instrumentation and with technical and instruction manuals.
- This unit can be used at various educational levels in the Energy Engineering field.



## *Description*

1. 70 kW GAS AND/OR FUEL BURNER WITH ADJUSTABLE PRESSURE AND AIR FLOW, SETS OF NOZZLE – SAFETY DEVICES
2. 70 kW BOILER – FIREBOX : Ø 300 – LENGTH : 600 WITH WATER CIRCUIT AND COMBUSTION INSULATION – SAFETY DEVICES
3. 2 WINDOWS : Ø 110 mm IN FRONT OF THE FLAME
4. FUMES EXHAUST CHIMNEY Ø150 mm
5. GAS OR FUEL CIRCUIT WITH MEASUREMENT OF FLOW, PRESSURE AND TEMPERATURE
6. AIR CIRCUIT WITH MEASUREMENT OF FLOW AND TEMPERATURE
7. WATER CIRCUIT WITH MEASUREMENT OF FLOW, PRESSURE AND TEMPERATURE
8. GAS ANALYSER : O<sub>2</sub>, CO, CO<sub>2</sub>, GAS TEMPERATURE, AMBIENT TEMPERATURE, DRAUGHT



## ***SUGGESTED APPLICATIONS***

### ⇒ **Experimental work of a fuel or gas boiler**

- Starting
- Adjustment
- Combustion optimization
- Flame visualization through window
- Research and identification of the components
- Selection of the equipments
- Preventive and curative maintenance
- Safety material

### ⇒ **Use of the instrumentation**

- Balance, efficiency, power
- Combustion analysis
- Measurement of the exhaust in the chimney
- Estimation : flow rate, pressure, temperature

## Specifications

The combustion unit allows the analysis and the control of the combustion in a gas or fuel (to be chosen) burner.

Maximum power : 70 kW

Fuel flow rate : 6 kg/h maximum

Required water flow rate for cooling :  
0.9 m<sup>3</sup>/h

## Variants

GAS boiler

FUEL boiler

## Options

A.FUEL TANK



B.COOLING TOWER



## Dimensions

See the scheme on previous page

Weight (without water) 300 kg

## Utilities

Fuel/gas supply

Fumes exhaust: 2.5 m max.  
from the unit

Heat dispersion (cool water -  
20°C)

## Shipping

Dimensions of the packing :

Length 1 100 mm

Width 700 mm

Height 1 930 mm

Global weight 400 kg