



C/6-00/0109



«MINERALYSEUR»

by PYROCOMBUSTION



"MINERALYSEUR"

MIPO 5

(Picture without associated informatic – Basis configuration with Furnace F2 length. 360)

PRINCIPLE

Propose, for analytic needs, a mineralisation tool by pyrolysis and controlled combustion, answering the following goals :

- Security of working and facility of using
- Control of pyrolysis and combustion temperatures
- Automatization of operations
- Work on high samplings (> 1gr)
- Application field extended to solids, liquids and gases
- Aptitude to be coupled to measure means
- Opening on the realisation of "on measure" analysers

APPLICATION FIELDS

Mineralisation of all organic substances for analytical needs.

ERALY

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Detailed literatures and / or quotation on request

Catalogue quotation: of / /

EQUIPMENT

It is composed with a main structure to set on bench, in which are gathered the following elements :

- A **MAIN FURNACE (F2)** with one zone regulated at constant temperature (*)
- A **PROGRAMMABLE FURNACE (F1)**
- A straight **QUARTZ COMBUSTION TUBE**, which can be filled with reagents (*)
- **CIRCUITS OF CONTROL AND ADJUSTMENTS** for 2 gases: inert gas and oxygen (*)
- **SPECIALISED INTERFACES**

ASSOCIATED INFORMATICS with :

- Computer,
- Keyboard, mouse, screen HD, 3,5'' reader
- Colour printer

APPLICATION SOFTWARE (*) which manages :

- temperature regulation of furnace F2
- temperature programming of furnace F1
- alarms
- syringe pusher (option) working

TECHNICAL CHARACTERISTICS

Basis Configuration

- **FURNACE F2** with one zone
Temperature adjustable up to 1100°C
Ø 20 x length 510 mm
- **FURNACE F1** programmable up to 1000°C (20 programs of 50 segments)
Ø 22 x length 115 mm
- **Straight combustion Tube** Ø int. 20 in F2 part and Ø int. 18 in F1 part, with screwed stopper for sample introduction
- 2 **gases circuits** : pressure regulator adjustable 0/1,6 bars / ball flowmeters and fine adjustment valve for oxygen and inert gas (10 to 300 cc/min) / electrovalves for stop and inversion
- **Alimentation** :
 - . Inert gas (He/Ar or N₂) – Oxygen
 - . Electric : 220 V - 50 Hz – 1100 VA
- **Dimensions** : breadth 106 cm, height 55 cm, depth 55 cm, weight ≈ 60 kg (without informatics)

(*) MAIN AVAILABLE OPTIONS

Software : - «Opto-analyser» for management and processing of signals emitted by external detectors (Infra-Red, Ultraviolet, ...)
- «Coulometer» for management of dosages with coulometric titration

Equipment : - Furnace F2 with 3 independent heating zones and associated regulators
- Syringe pusher for direct injection of liquid products
- Flow regulators for gases
- Short combustion tube, with chicanes, and Furnace F2 with one zone, length 360

Remark : This analyser is polyvalent and adaptable. Many other configurations and options are possible on request. Do not hesitate to contact us.

