

# Pyrolyzer

Pyrolyzer



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

**Analytical Technologies Limited**

An ISO 9001 Certified Company

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- Method of pyrolytic gas chromatography is widely used for analyzing polymeric materials, plastics, rubbers, caouthchouc, paintwork materials and other high molecular compounds of natural and artificial origin. This method is based on thermal decomposition of samples in inert environment (without oxygen access) with further chromatographic separation and analysis of resulting volatile compounds. This way the received pyrogram allows to judge the composition of the initial sample. Pyrolysis is also used during geochemical researches.

**Pyrolyzer is an independent item and can be used with any gas chromatographs.**

Sample pyrolysis in pyrolyzer is carried out in silica capsule during heating to fixed temperature at the speed of over 500 °C/min. Switching of sample injection modes and flush of pyrolysis remains from the capsule is performed with the help of 6-step valve. Injection of pyrolysis products into evaporator of the chromatograph is performed with a needle.

## ►► Technical Characteristics

- Capsule volume - 56 mcl
- Pyrolysis temperature - from 200 to 1000 °C.
- Inaccuracy of temperature - no more than 1,0 °C.
- Sample heating time to Pyrolysis temperature - no more than 2 s.
- Capsule cooling time during shifting from hot zone to cold zone after Pyrolysis - no more than 10 s.
- Time of continuous work in Pyrolysis mode - no more than 60 s.
- Electric power supply with voltage (220)V, Frequency (50±1) Hz.
- Power consumption - no more than 100 VA.
- Overall dimensions of control unit (width×depth×height) - 210×190×100mm.
- Overall dimensions of input node (width×depth×height) - 90×135×160mm.
- Control unit mass - no more than 2,5 kg.
- Input node mass - no more than 0,9 kg.

## HPLC Servicing, Validation, Trainings and Preventive Maintenance :

**HPLC Servicing** :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

**Trainings** :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

**AMC's/CMC** :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

**Validations** :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

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Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



**Analytical**  
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1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at [Info@analyticalfoundation.org](mailto:Info@analyticalfoundation.org)

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

## Reach us @



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