

**FLEXIBLE, VERSATILE
REPRODUCIBLE**

Multi-Shot Pyrolyzer

Flexible, Versatile, Reproducible

Today, analytical pyrolysis encompasses much more than simple flash pyrolysis of polymeric materials. Virtually any material (liquid or solid) can be characterized using an array of techniques, which are designed into a modern day, Multi-Functional Pyrolysis System. Consider how these techniques can help you quickly solve the most difficult analytical challenge:

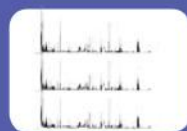
Analytical Techniques:

- Evolved Gas Analysis (EGA)
- Pyrolysis (PY)
- Reactive Pyrolysis (RxPY)
- Multi-step Thermal Desorption (TD)
- Thermal Desorption followed by Pyrolysis (Double-Shot)
- Heart cuts based on the EGA thermogram
- UV Irradiation
- Conventional sorbent based thermal desorption
- High pressure, high temperature reaction chemistry



What's new from Frontier Laboratories?

Why are most laboratories integrating the Frontier Multi-Shot Pyrolyzer into their mainstream analytical protocols?



Guaranteed reproducibility and accuracy

Every facet of the system is designed to ensure reliability and data quality. All wetted surfaces are quartz, there is no transfer line, there is no cross contamination.



Versatility

The Pyrolyzer can be configured to analyze C2 vapors, C100 solids and everything in between.



Increase laboratory productivity

Sample prep takes less than five minutes; the low mass ceramic furnace heats and cools in record time.



Analyze any sample matrix

Virtually any material (gas, liquid or solid) can be chemically characterized.



Tools to help understand the data

F-Search software and four MS libraries utilize MS and GC data to simplify data interpretation.

Pyrolyzer EGA/PY-3030D

Frontier Laboratories' new Multi-Shot Pyrolyzer EGA/PY-3030D is based upon the proven superiority of their patented vertical micro furnace, but everything else is new. A low mass ceramic heater heats and cools quickly. The needle interface has been re-designed to ensure thermal uniformity. The temperature control algorithm literally guarantees temperature reproducibility ($\pm 0.1^\circ\text{C}$) and the operating software has a number of new features. The concept is sound, the design is simple and the engineering first rate; a two year warranty is standard — from day one!

Two new samplers give the 3030D Pyrolyzer an even larger role in the analytical laboratory. Odors and other VOCs can be concentrated on conventional sorbents like Tenax and thermally desorbed using the TD Sampler. High pressure, high temperature chemistry can be investigated using the micro reactor sampler. Couple these two samplers with the many innovative accessories that can be added to the 3030D with the power of F-Search Software — you will agree that Frontier is all about analytical performance, versatility and capability.