

▶ **Economical Single-Step Pyrolyzer**

▶ **Connects To Any Conventional GC**

▶ **Simple Needle Connection Through Injection Port**

▶ **Can Be Programmed At Lower Temperatures To Perform Thermal Desorption**



The Ultimate In Affordable Pyrolysis

CDS has long been known as the pyrolysis industry leader, offering the most advanced instruments in the world to those who rely on this highly specialized technique. However, despite the many benefits offered by pyrolysis, potential users with only an occasional, or casual need may find it hard to justify the purchase of a dedicated pyrolyzer.

The CDS Model 4000 Pyroprobe® was specifically developed to address the requirements of these users. Although it provides the same heating and accuracy specifications found in our more sophisticated models, the Model 4000 can be

purchased at a much more economical price. Design simplicity makes installation easy and quick; your Model 4000 can be taken on and off any conventional GC in seconds.

With the Model 4000, convenience is the key. It is designed in a compact, lightweight package containing all necessary consumables and accessories. Programming is performed using any PC you wish, and the unit arrives with easy-to-use Windows-based software.



Model 4000 Product Specifications

Compatible with all GC and GCMS makes and models.

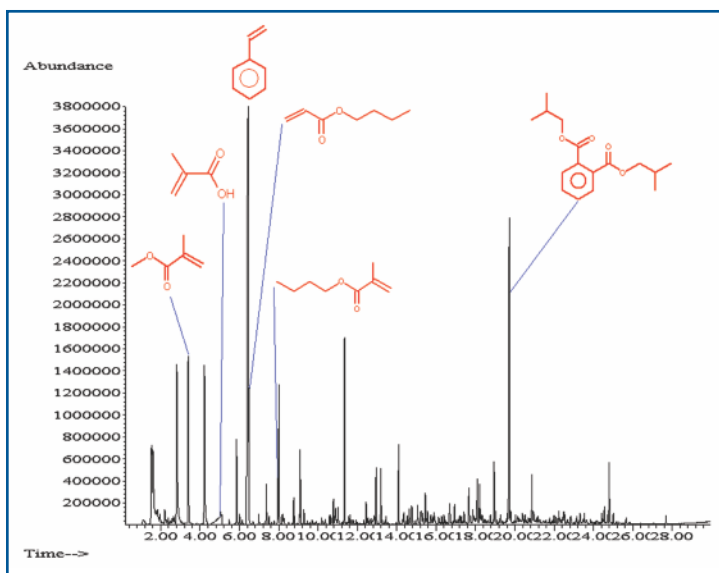
Resistively heated element with coiled platinum filament enables variable temperature control. This allows for both fast and slow pyrolysis-heating rates programmable in degrees per millisecond, degrees per second, and degrees per minute.

Filament Temperature: 1°C increments to 1300°C

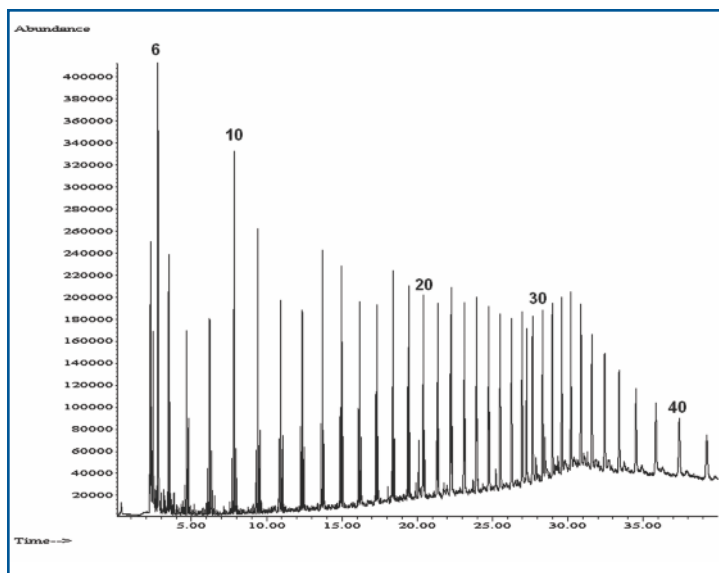
Heating Rates: 0.1°C/minute to 20,000°C/second

Heating Times: 0.1 seconds to 999.9 minutes

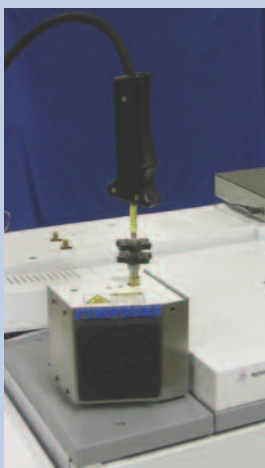
Interface Temperature: 1°C increments to 350°C



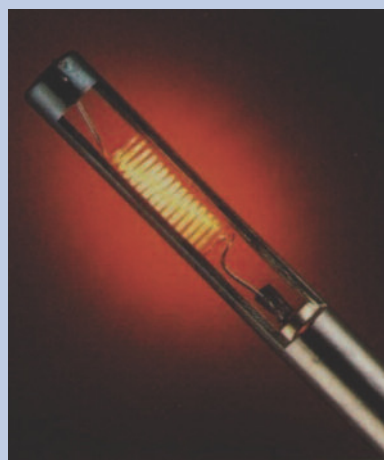
Pyrolysis of an acrylic and polystyrene copolymer. A plasticizer additive is shown near the end of the run.



Pyrolysis of Polyethylene showing major carbon peaks up to C40+



The Model 4000 Interface can easily be installed and removed from the GC injection port in seconds.



Sample loading is easy. CDS uses a resistively heated platinum filament that is accurate to 1°C of set point. Both liquid and solid samples can be inserted into our quartz sample tubes.

- ▶ CDS offers polymer and additive identification libraries.
- ▶ Pyrolyze in your FTIR with our unique FTIR interface!
- ▶ Optional Thermal Desorption(TD) Probe allows for TD of sorbent tubes.