

# Educational FID GC System

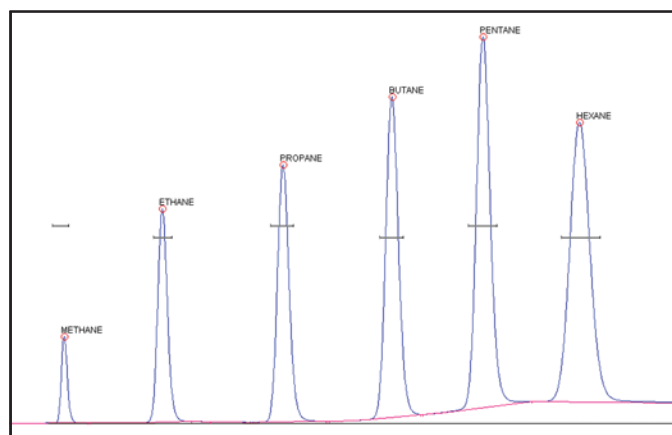


- *FID Detector*
- *On-Column Injector*
- *Carrier & Combustion Gas Electronic Pressure Control (EPC)*
- *Temperature Programmable Column Oven*
- *1 channel PeakSimple Data System*
- *1 meter Silica Gel Column*
- *...on the ultra compact 310 chassis*

The Educational FID GC system is ideal for undergraduate chemistry classes where the principles of chromatography are demonstrated or for graduate level research. This same GC is widely used in thrifty labs for general organics analysis because of its low cost and upgradability\* with our wide selection of detectors and injectors, in case analytical needs change in the future.

The carrier gas and the FID combustion gases are all controlled by programmable electronic pressure regulators (EPCs). EPCs not only provide rock-solid retention time reproducibility, but allow the carrier gas to be pressure ramped (just as the column oven is temperature ramped) from the built-in PeakSimple data system.

This chromatogram shows a separation of 1000ppm C<sub>1</sub>-C<sub>6</sub> hydrocarbons in room air using the 1 meter silica gel column.



The on-column injector is ideal for 1/8" packed or 0.53mm wide-bore capillary columns and is suitable for analytes ranging from methane to heavy, high-boiling hydrocarbons (C<sub>44</sub>+). The column oven accepts column cage diameters up to 4 inches, is programmable to 400°C and recycles quickly with its high speed cool-down fans.

**0310-0004**

## **Educational FID GC System**

(VOLTAGE: for 110VAC, use 0310-0004-1; for 220VAC, use 0310-0004-2)

\*Educational models are less expensive than equivalent GCs manufactured "à la carte" because of batch manufacturing efficiencies. No customization of educational models is available prior to initial sale, although normal factory retrofit services are available after delivery.