

# Gas-less™ Educational GC System

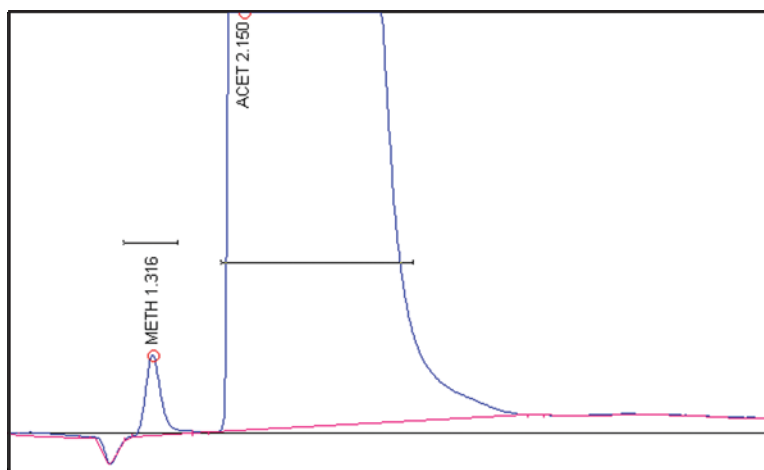


- **CCD Detector**
- **On-Column Injector**
- **Built-in “whisper quiet” Air Compressor**
- **1 channel PeakSimple Data System**
- **1 meter HayeSep-D Column**
- **...on the ultra compact 310 chassis**

The Gas-less Educational GC system is ideal for demonstrating the principles of gas chromatography *right in the classroom*. The Gas-less Educational GC includes a built-in “whisper-quiet” air compressor and a CCD detector. The CCD detects combustible (hydrocarbon) molecules and it operates on air carrier gas from the internal air compressor.

This GC is perfect for teaching situations where compressed gas cylinders cannot be used due to safety considerations or budgetary limitations. Because it operates on its own infinite supply of room air, the Gas-less GC may be used to perform demonstrations in the classroom, instead of the lab. Most traditional GCs require helium carrier gas. Compared to the ongoing cost of cylinder rental, storage, and gas consumption, operation of the Gas-less Educational GC is essentially free, except for the minimal cost of electricity.

This chromatogram shows a separation of 1 $\mu$ L of 1000ppm methanol in acetone using a standard Gas-less Educational GC at 130°C.



The Gas-less Educational GC is equipped with a built-in, single channel PeakSimple data system, which provides powerful yet easy data acquisition, as well as temperature programming for the column oven. Fast cool-down fans automatically cool the column oven at the end of the analysis from 250°C to 50°C in less than five minutes.

## **0310-1006 Gas-less™ CCD GC System with fast cool-down**

(VOLTAGE: for 110VAC, use 0310-1006-1; for 220VAC, use 0310-1006-2)

*NOTE:* 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.