



The SRI Family of Educational GC Systems



- (1) Educational TCD - Detects all Compounds
- (2) Gasless Educational TCD with built-in air compressor
- (3) Educational FID - Detects all Hydrocarbons
- (4) Gasless Educational FID with built-in air compressor and hydrogen generator

- 310 chassis 12.5" W x 14.5" D x 12.5" H
- Single Channel PeakSimple Data System
- Temperature Programmable Column Oven
- 1-meter Packed Column

Your curriculum requires a GC, but your budget won't allow for expensive gas chromatography equipment... and the lab bench space—where will you put it? SRI Educational GC systems are ideal for undergraduate chemistry classes where the principles of gas chromatography are demonstrated on the same equipment students will encounter in industry. These GCs are configured on the compact 310 chassis, so they take up a minimum of bench space. Choose from two detector types: Thermal Conductivity Detector (TCD) or Flame Ionization Detector (FID), and standard or gasless configurations. Each SRI Educational GC includes a single channel, Windows™ based PeakSimple data system, a one meter Silica Gel or HaySep D packed column, and Electronic Pressure Control (EPC). Gasless Educational GCs also include built-in, whisper-quiet air compressors, and for the FID GC, a hydrogen generator, which allows for operation without external gas supplies.

TCD

Thermal Conductivity Detector

- Universal selectivity
- 100% to 200ppm sensitivity



FID

Flame Ionization Detector

- Hydrocarbon selectivity
- 100% to 1ppm sensitivity



Gasless TC

Thermal Conductivity Detector

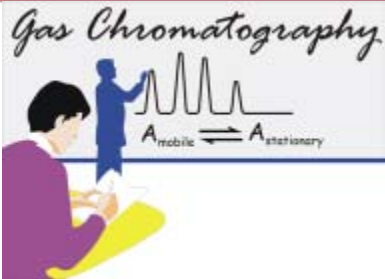
- Universal selectivity
- 100% to 200ppm sensitivity
- "Whisper Quiet" air compressor

Gasless FID

Flame Ionization
Detector

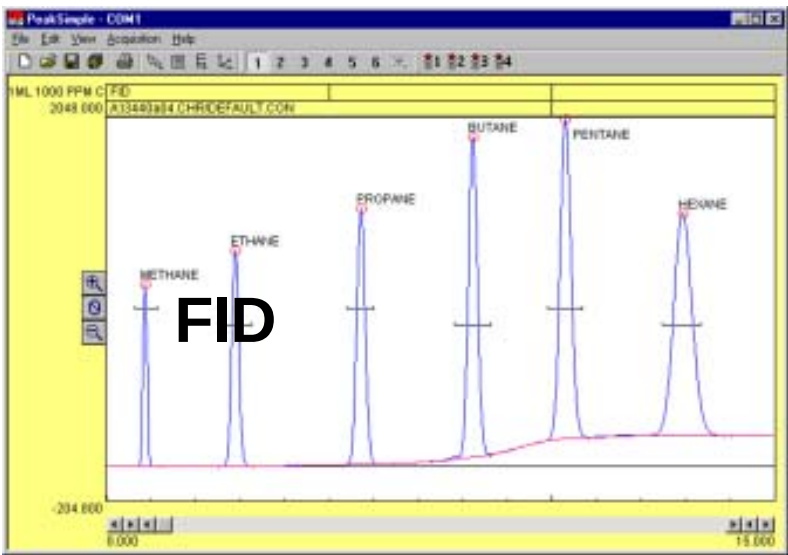
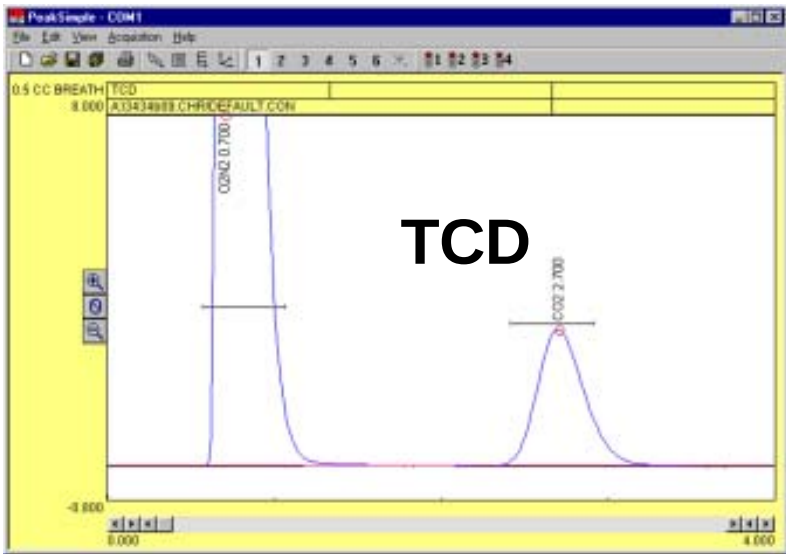
- Hydrocarbon selectivity
- 100% to 1ppm sensitivity
- "Whisper Quiet" air compressor
- Hydrogen Generator

SRI Educational GC Systems



The following two chromatograms are examples of what you can do with an SRI educational GC system:

This chromatogram is from a direct injection of 0.5mL of human breath. The longer we hold our breath, the higher the CO₂ content. This was the result of a class experiment called “Waiting to Exhale,” which is included in the manual. It is a contest to see who can blow the most CO₂. Participants merely exhale into a 3mL syringe, then inject 0.5mL into the on-column injector of an Educational TCD GC.



A 1mL sample of 1000ppm C₁-C₆ hydrocarbons was separated with an Educational FID GC to produce this chromatogram. The FID response is linear and reproducible. Stable from day to day, the FID is not susceptible to contamination from dirty samples or column bleed. The FID is the preferred detector for general hydrocarbon analysis.

(2022 Pricing. Prices subject to change. Consult most recent price list.)

0310-1000	Educational TCD GC system	\$6,327.00
0310-1005	Gasless Educational TCD GC system	\$6,995.00
0310-0004	Educational FID GC system	\$7,587.00
0310-0005	Gasless Educational FID GC system	\$7,995.00

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