

# Educational TCD GC System



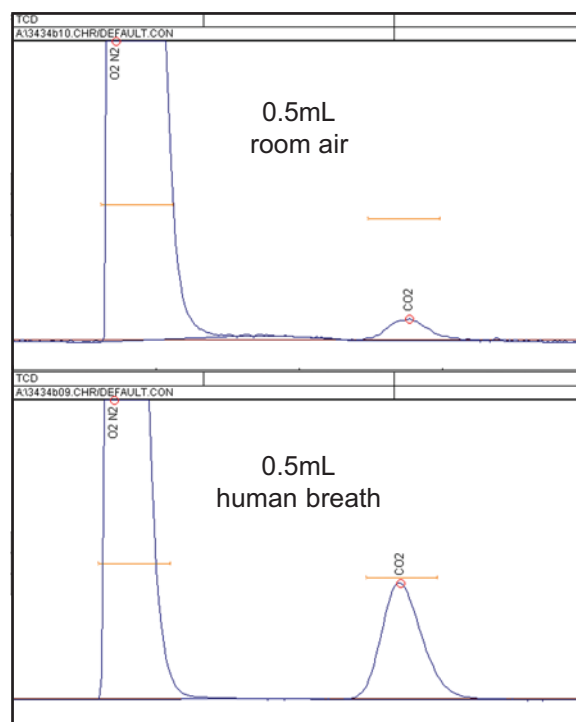
- **TCD Detector with User Replaceable Filaments**
- **Carrier Gas Electronic Pressure Control (EPC)**
- **Temperature Programmable Column Oven**
- **1 channel PeakSimple Data System**
- **1 meter Silica Gel Column**
- **...on the ultra compact 310 chassis**

The Educational TCD GC is ideal for undergraduate chemistry classes where the principles of gas chromatography are demonstrated on equipment identical to what students will encounter in industry. Because of their low cost and upgradability\* with other SRI detectors and injectors, these GCs are also widely used by thrifty labs for simple applications such as landfill gas analysis, stack monitoring, and quality control.

Configured on the compact 310 chassis, the Educational TCD GC includes a traditional 4-filament Thermal Conductivity Detector that can heat to 275°C. The built-in single channel PeakSimple data system provides powerful yet easy data acquisition and temperature programming for the column oven.

The column oven is temperature programmable to 400°C, and comes with fast cool-down fans. Electronic Pressure Control (EPC) for the carrier gas provides rock-solid retention time reproducibility.

These two similar chromatograms were produced under the same conditions. The first sample is room air, and the second is human breath. In both runs, the CO<sub>2</sub> peak is separated from the O<sub>2</sub>/N<sub>2</sub> peak at 80°C on a standard Educational TCD GC with a Silica Gel column.



**0310-1000**

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(VOLTAGE: for 110VAC, use 0310-1000-1; for 220VAC, use 0310-1000-2)

\*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.