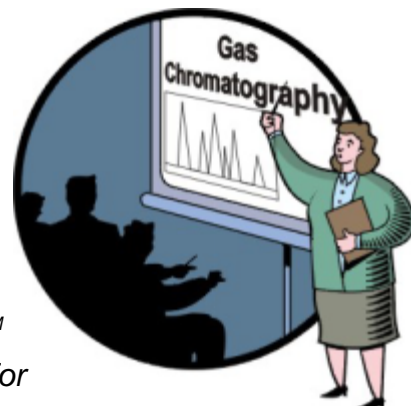




# GC Innovations

## Gas-less™ Educational GC

Your curriculum requirements mandate GC acquisition, but your budget won't allow for conventional GC equipment, not to mention the recurring expense of compressed gas cylinders... and the lab bench space—where will you put it? The SRI Gas-less™



- ★ No gas cylinders required
- ★ Supplies its own air carrier
- ★ Bring GC into the classroom
- ★ Use it with any Windows PC

Educational GC is ideal for

undergraduate chemistry classes where the principles of gas chromatography are demonstrated on the same equipment students will encounter in industry. Its CCD detector responds to combustible molecules and can operate on air carrier gas from the built-in, whisper-quiet air compressor. Because this instrument operates on the infinite supply of ambient air, GC demonstrations can be performed right in the classroom, instead of the lab. No gas is required, just plug it in. The built-in PeakSimple data system is Windows compatible (3x and up) and can be run on any PC, even that dusty old 386. This GC is configured on the compact 310 chassis, so it takes up a minimum of bench space.

Small footprint: 12.5"W x 14.5"D  
and just 13.5" high with the lid down



Temperature programmable  
Column Oven

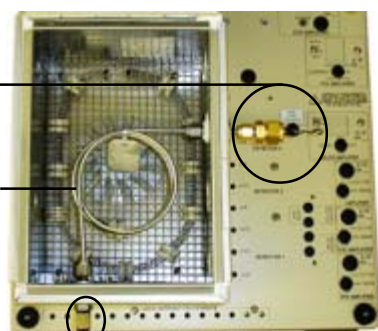
Easy-to-read display panel reports status  
of system heating, pressure, and voltage  
control zones at the touch of a button



CCD Detector

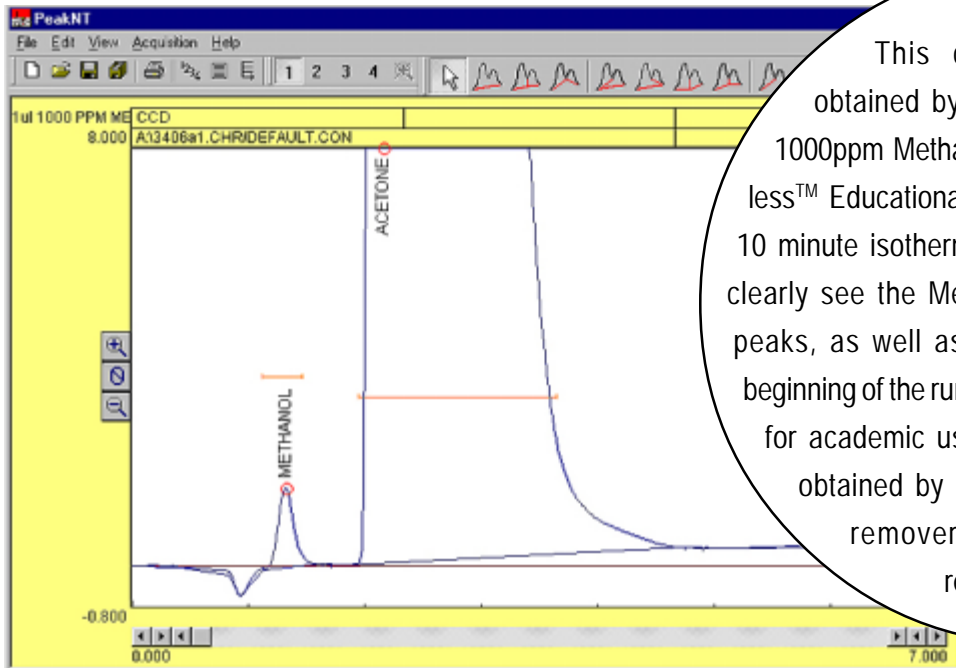
1m Hayesep-D  
packed column

On-column injector



Teach the principles of Gas Chromatography  
without the expense & safety hazards of compressed gas cylinders

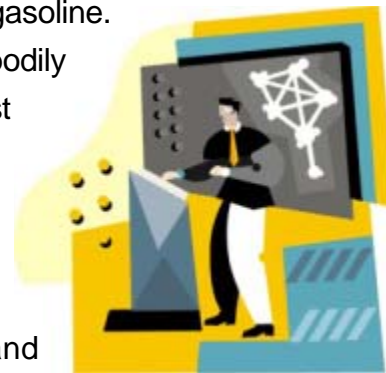
## Gas-less Educational GC



This chromatogram was obtained by a direct injection of 1 $\mu$ L 1000ppm Methanol / Acetone mix into a Gas-less™ Educational GC programmed to perform a 10 minute isothermal run at 130°C. Students can clearly see the Methanol and Acetone component peaks, as well as a negative water peak at the beginning of the run. Sample standards are available for academic use, but similar results may be obtained by running a finger nail polish remover sample--cheap and readily available!

The CCD detector responds to all hydrocarbons at a detection limit of 100ppm. Hayesep-D packed columns are useful for analyzing gases and low molecular weight compounds such as alcohols, aldehydes, and ketones. Inexpensive samples are available at grocery, drug, and convenience stores—try rubbing alcohol, fingernail polish remover, or gasoline.

Even student breath alcohol level can be measured, since alcohol is a bodily by-product of the livers' metabolization of sugars. With the optional fast cool-down fans, there's little wait between temperature programmed runs. The Gas-less™ Educational GC's CCD detector has a built-in spare filament, and an entire spare CCD detector is shipped with the instrument in the maintenance kit. The CCD filaments and



detectors are hand-changeable—quick and easy like everything else about this teaching

tool. The compact 310 GC chassis won't cramp your style, and should you wish to upgrade the unit in the future, it can be retrofitted with up to four detectors, and we have 14 to choose from. So don't just tell your students about gas chromatography, SHOW them with the Gas-less™ Educational GC. SRI makes educational gas chromatography affordable, portable, and simple.

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Gas-less™ Educational CCD GC (includes fast cool-down fans)

\$ 4,995.00