

## 205

### 220 Graphite Furnace & Autosampler

## Accusys 211

Special design and very popular among educators - low maintenance, affordable & reliable.

Automatic gas box for easy nitrous oxide switchover, with a hands free glow plug ignition for added safety and convenience.

## 210VGP

Single beam deuterium background corrected instrument with a 3 lamp turret and on-board operation system.



## PFP-7

Flame Photometer  
PPM detection of Na, K, Li, Ba, Ca

**210 + Graphite Furnace & Autosampler - Special Package Available!**

**NMR**  
the Revolutionary 60 MHz  
Benchtop Spectrometer

CALL  
FOR  
PRICING



## MDS-6G (SMART)

Closed Microwave  
Digestion/Extraction System

Request for Quote



affordable  
& reliable

## M530 Infrared Spec.

30 day  
free trial

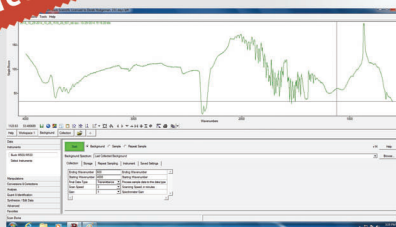
## scan-n-search

call for  
pricing

## Hydrocarbon Analyzer



- 4000 - 600 cm<sup>-1</sup> wavelength range
- Encompasses 85% of IR Applications
- 3 minute scan time



Software works with FDM, Sadtler, STJapan, NICODOM, spectra libraries



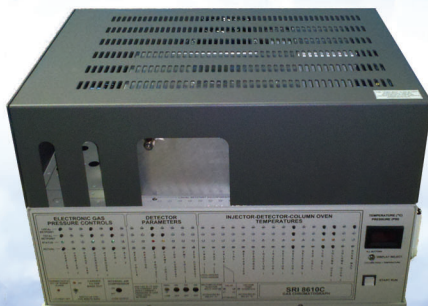
Perfect for EPA methods 418.1 & 413.2

**Whether in the lab or out in the field,  
Buck GCs perform routine industrial analysis  
and complicated research separations easily,  
generating accurate and reproducible results.**

## GC Models

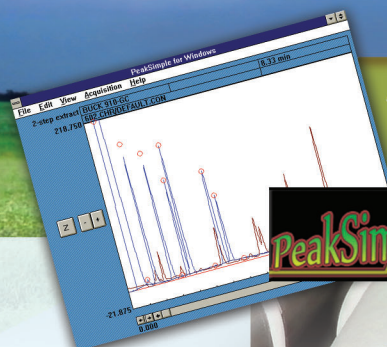
### Buck 910

Ideal for 4+ detector systems or any system with an autosampler or multiple injectors.



### Buck 310

Small Size / Full Performance

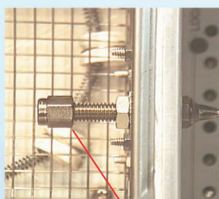


**Free Software with any GC or HPLC purchase  
Free Live Technical Support  
& In-House Training**

**PeakSimple Software**

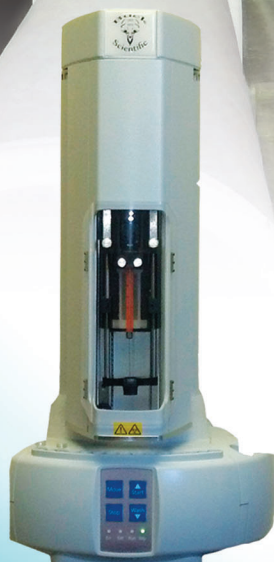
### GC Injectors & Detectors:

- TCD (Thermal Conductivity Detector)
- FID (Flame Ionization Detector)
- FPD (Flame Photometric Detector)
- DELCD (Dry Electro-Lytic Conductivity Detector)
- HID (Helium Ionization Detector)
- NPD (Nitrogen Phosphorus Detector)
- ECD (Electron Capture Detector)
- PID (Photo-Ionization Detector)
- CCD (Catalytic Combustion Detector)



On-Column injector shown here

- Additional On-Column Injector
- Heated Split/Splitless
- 10 Port Gas Sampling Valve
- 110 Position Vertical GC AutoSampler
- Heated Static Headspace Injector
- EPA Method 5035 Compliant Purge & Trap



The HTA GC/HPLC Auto Sampler can inject into 1 or 2 injection ports sequentially. It also has 6 solvent and 1 waste positions

## HPLC Models

### BLC-30 Variable Wavelength Isocratic HPLC System



*"The Buck BLC Liquid chromatographs offer you every thing you need and nothing you don't at a price that make sense."*

### More HPLC Systems:

- BLC-30 Variable Wavelength Isocratic
- BLC-30G Binary Gradient Variable Wavelength
- BLC-30P Isocratic Preparative Variable Wavelength
- BLC-30PG Binary Gradient Preparative Variable Wavelength

### HPLC Accessories:



Degasser



Fraction Collector



Refractive Index Detector



Flourescence Detector

www.bucksci.com

sales@bucksci.com

203-853-9444

**BUCK  
Scientific**

**Buck Chromatography**

## IonQuest

### Ion Chromatography System

#### System Features:

- Dual overlapping piston pump
- Microprocessor control for low pulsing
- Chemically inert flow-path
- Precisely thermostatted cell
- Low dispersion heat exchanger
- Dual column oven
- Leak detection
- PowerStream data processing & system control
- In line vacuum degassing
- Regenerative chemical suppression
- Suppressor cartridge in oven
- Modular flexibility

#### Detector

This Cecil conductivity detector has very low noise and the use of high stability temperature control of the detector cell, contributes towards the extremely low drift.

Coupled with the continuously regenerated chemical carbonate suppressor, flat baselines, no carbonate peak, no injection peak, high sensitivities, gradient usage and speedy column equilibration are achieved.

#### Pumps

Isocratic, Gradient, Quaternary, and Semi-Preparative Pumps available

#### Autosamplers

Available in 50 or 100 sample position versions, these astoundingly reliable AutoQuest autosamplers provide for ultra low carryover, ultra high injection precision, priority sampling, replicate injections and sample volumes from 10  $\mu$ L to 2 mL.

The ultra low carry-over provides for the ultimate in effective sampling for trace residue analysis, impurity determinations and contaminant levels.





**MWave-5000**

The MWave-5000 multifunctional microwave is truly a robust system. The MWave-5000 Integrates microwave synthesis, distillation, concentration, pressurized or non-pressurized reaction, and low temperature microwave reaction into one system.

- Three modes of reaction, under pressure, Normal pressure, and decompressed
- Three different sample vessel volumes 300ml, 500ml, and 1 Liter
- Variable magnetron output from 25-1000 watts
- Maximum normal working pressure of 290 PSI, and 220 degrees Celsius
- Has a slim form factor at 20" wide x 19" deep x 24" tall and 88 lbs.
- High resolution Color screen with two LED displays can display the experiment and pressure and temperature curves simultaneously
- Powerful magnetic stirring system for both open and closed vessels

Innovation: Integrate the atmospheric pressure and pressurized reaction, microwave, ultrasonic wave and ultraviolet irradiation and other functions, giving full flexibility;

High reproducibility: Microwave automatic frequency conversion control, dual temperature control technology, and piezoelectric crystal pressure can ensure the accurate record and representation of each reaction;

Severe safety: Pressurized mode, intelligent safety pressure control system, real-time over pressure alarm and active pressure relief, outer vessel with composite fiber and other safety protection measures at the highest level;

Friendly operation: 7-inch color LCD touch screen, intelligent software, safe and remote control, and reaction process videography facility;

Reliable durability: Multi-layer Teflon coating 316L stainless steel chamber and durable reaction container material ensure that all kinds of chemical reactions proceed smoothly



**UWave-2000**

**MAS-II**



• Dynamically adjust microwave power between 0-1000W based on reaction temperature to generate non-pulse and continuous microwave heating. Maximum power can be set into 10 ranges, increments of 100W.

• Dual channel temperature monitor, theoretically maximum working temperature is 900°C, vendor suggested maximum temperature is 400°C (need appropriate reaction case), standard configuration can support 250°C, precision 1 degree.

• Mechanical and Magnetic stirring devices are transferable. Stirring speed is adjustable and would be displayed.

• Standard interface reaction container (cubage from 20ml to 1000ml) and condensation, circumfluence devices, intake of inert gases.

• Dual screen display for reaction data and accumulating temperature curve, TFT color LCD screen for monitoring and recording (through connecting to VCR) the whole reaction process (patented).

[www.bucksci.com](http://www.bucksci.com)

[sales@bucksci.com](mailto:sales@bucksci.com)

203-853-9444

**BUCK**  
Scientific

**Synthesis Microwave Systems**