

**PRE-INSTALLATION REQUIREMENTS:**

910/310 Series Gas Chromatography Systems

**ENVIRONMENT:**

The instrument will occupy approximately 3' X 4' lab bench area and requires 110V-60Hz, 15 Amp power source within six feet of GC. Recommended temperature & humidity are from 60°F to 90°F & 35%RH to 80%RH as thermal instabilities, drift & noise may occur outside these ranges. Chemical fume hood will typically be located near by for sample preparations.

**GASES:**

Try to securely position gas tanks within 10 feet of the GC. All regulators need a 1/8" Swagelok hose nut & ferrule on connector end and 1/8" soft Copper or tubing. (Except for ECD Support Gas which requires stainless steel)

***Suggested Carrier Gas:***

Helium, UHP / 99.999% or Zero-Grade / H-C <0.5PPM, 1A / ~240ft<sup>3</sup>; CGA-580 fitting

***FID Support Gas Options:***

Air, Purified / 99.9+%, 1A / ~225ft<sup>3</sup>; CGA-590 or -346 fitting

Hydrogen, Pre-Purified / 99.99% or Zero-Grade / H-C <0.5PPM, 1A / ~210ft<sup>3</sup>; CGA-350 fitting

(These gases may be replaced by the Air Compressor and Hydrogen Generator respectively)

***FPD Support Gas Options:***

Air, Purified / 99.9+%, 1A / ~225ft<sup>3</sup>; CGA-590 or -346 fitting

Hydrogen, Pre-Purified / 99.99% or Zero-Grade / H-C <0.5PPM, 1A / ~210ft<sup>3</sup>; CGA-350 fitting

(These gases may be replaced by the Air Compressor and Hydrogen Generator respectively)

***NPD Support Gas Options:***

Air, Purified / 99.9+%, 1A / ~225ft<sup>3</sup>; CGA-590 or -346 fitting

Hydrogen, Pre-Purified / 99.99% or Zero-Grade / H-C <0.5PPM, 1A / ~210ft<sup>3</sup>; CGA-350 fitting

(These gases may be replaced by the Air Compressor and Hydrogen Generator respectively)

***ECD Support Gas Options:***

Nitrogen, UHP / 99.999% or Zero-Grade / H-C <0.5PPM, 1A / ~240ft<sup>3</sup>; CGA-580 fitting

Argon/Methane, 95%-5% or 90%-10%, UHP / 99.9995% only; 1A / ~220ft<sup>3</sup>, CGA-350 fitting

w/ all SS Tubing and Fittings (Recommended ECD Carrier/support)

***DELCD Support Gas Options:***

Air, Purified / 99.9+%, 1A / ~225ft<sup>3</sup>; CGA-590 or -346 fitting

**ADDITIONAL NEEDS:**

Instrument maintenance will require a Tool kit with assorted wrenches and screwdrivers. Peak Simple software requires a Pentium Compatible Computer running Windows 95/98/ME/NT/2000/XP, with VGA/SVGA monitor, 4M Hard Drive space, 64M RAM memory (min), and 3/5" Floppy Drive, free 9-pin Serial Comm-port for GC Interface cable, Mouse (serial or bus), Printer (dot-matrix / laser / inkjet) set up in Windows.

**OPERATIONAL SUGGESTIONS:**

Turn system ON approximately 30 minutes before running any samples to allow the system to warm up and stabilize; run the system through a "blank" temperature program at the beginning of the work week to purge out any trapped materials.

*Calibration Gases, Standards and other sample preparations may require additional solvents, standards and glassware not offered by our company – it is not the responsibility of Buck Scientific, Inc. to provide these items.*