

PRE-INSTALLATION REQUIREMENTS:

210VGP Flame & 220-GFAAS Atomic Absorption Spectrometer

ENVIRONMENT:

The instrument will occupy approximately 3' X 5' lab bench area and requires 110V-60Hz, 15 Amp for Flame operation and 208 or 240V, 30A for Graphite Furnace. Power sources within 6 feet of the instrument (*Buyer must specify 208V or 240V for GF*). GF also requires a Sink or reservoir with fitting for ¼" Nylon tubing; OR Recirculating Chiller (~2 L/min flow). Recommended temperature & humidity are from 50°F to 90°F & 30%RH to 80%RH as thermal instabilities, drift and noise may occur outside this range.

GASES:

Try to securely position gas tanks within 10 feet of the AAS. All regulators need a 1/8" Swagelok hose nut & ferrule on connector end and 1/8" soft Copper or tubing.

- Acetylene, Purified / 99.6%, 2B (40ft³ / ~35lbs) tank; regulator w/ CGA-510 fitting
- Air, Purified (99.9%) preferred; Non-Medical/Industrial grade acceptable, 1A (~225ft³) or 1L (~280ft³) tank; regulator w/ CGA-346/590 fitting (standard), **OR** a filtered Oil-less Air Compressor
- Argon, Purified / 99.99%, 1A (~280ft³) tank; regulator w/ CGA-580 fitting
- Nitrous Oxide, CP grade (99+%), 1A (60lb) tank; regulator w/ CGA-326 fitting (for N2O only)

CHEMICALS:

Distilled / Deionized Water, Concentrated, high purity Hydrochloric, Acetic, Sulfuric and Nitric Acids, Certified Single- or Multi-Element Standard Solutions, 1% Li or K Ionization Buffer, 1% La Releasing Agent, Assorted Matrix Modifiers for GFAAS work, Other miscellaneous preparatory reagents [for sample preparations and digestions]

INSTRUMENT INTERFACE OPTIONS:

Output ports are available for external Dot-Matrix Printer as well as PC for use with BUCKANALYZE software. Requires 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)

OPERATIONAL SUGGESTIONS:

Turn system ON approximately 30 minutes before running any samples to allow the system to warm up and stabilize; pre-heat the Hollow Cathode Lamps 10-30 minutes at the recommended operating current prior to analysis for best stability and sensitivity in critical analyses.

Standard 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.