

PRE-INSTALLATION REQUIREMENTS:

BLC-10/20 series High-Performance Liquid Chromatography Systems

ENVIRONMENT:

The instrument will occupy approximately 3' X 5' lab bench area (allowing space for PC & Samples) and requires 110V-60Hz, 15 Amp power source within six feet of HPLC. Recommended temperature & humidity are from 60°F to 80°F and 30%RH to 65%RH as static, noisy response & background may occur outside these ranges. Do NOT place the HPLC system itself in fume hood or near any acids, since this will damage internal optical and electronic components.

CHEMICALS:

HPLC-grade Solvents: Water, Methanol, Acetonitrile, Tetrahydrofuran, Acetic Acid

High-Purity BUFFERS: Sodium & Ammonium Phosphate, Sodium & Ammonium Acetate, Methane-Sulfonic Acid; depending on Application

NOTE: The selection of Solvents and Buffers will depend on materials being analyzed.

NOTE: ALL good quality HPLC Grade Solvents are processed through a 0.5 micron filter to remove ALL particles that will eventually clog and damage the Column. Other Solvents may be used short-term if HPLC grade is not readily available.

GLASSWARE / LABWARE:

Sample Preparation Accessories:

Extracting Solvents: Methanol, Methylene Chloride, Hexane, etc.

Sample Filters: 0.5 micron Syringe Filters

Priming Syringes (5-10ml) for HPLC Pump

Vials for Sample Collection, Storage and Dilutions

Optional: Solvent Degasser system

ADDITIONAL NEEDS:

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, source lamps and detector to warm up and stabilize. Start Solvent flow at 1ml/minute to equilibrate the Column and flush out the detector flow-cell. ZERO (Auto-Zero) the detector on the HPLC periodically throughout the day to maintain a flat baseline.

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.