TECHNICAL SPECIFICATIONS FOR GAS CHROMATOGRAPHY WITH AUTO INJECTOR AND HEAD SPACE SAMPLER

GC system with Microprocessor based Advanced Flow Technology fitted with FID & TCD, capable of installing 3 injectors and 4 detectors on single GC along with original software. The GC should supply with

- Oven capacity: 15.5 – 16.0 L
- Temp Accerancy: ± 1% Rapid column oven heating with rates from -250°C to +250°C
- Must have 20 ramp heating steps, with cooling program.
- Must have total column oven programming time of 9999.99 mins.
- With ultra fast column oven cooling from 450°C to 50°C in 3.4 mins.
- With packed injector & split / splitless capillary injector with temperature range of ambient +5°C to 400°C
- Capability of connecting micro-bore column of 0.1mmID for fast GC analysis
- Carrier gas pressure setting range from 0 to 970 kPa
- Carrier gas flow setting range from 0 to 1200 ml/min
- 7 step pressure and flow programming each
- Pressure / Flow programming rate of -400 to 400 kPa / min and -400 to 400 ml/min
- Constant pressure / constant flow and unique Constant linear velocity mode for carrier gas
- Programmable split ratio setting from 1 to 9999.9
- Built in advanced self diagnostics function
- Large LCD graphic user interface for displaying all GC parameters including acquired chromatogram
- High sensitive Flame Ionization Detector (FID) (with temp range up to 400°C , dynamic range of 10^7, sensitivity 1.5 pgC/s of dodecane)
- Quartz FID nozzle for inertness and high speed FID acquisition rate of 250 Hz (4ms)
- Electronic control of all detector gases H2, Air and make-up through advanced pressure controller (APC)
- Thermal Conductivity Detector (TCD) (with temp range up to 400°C , dynamic range 0f 105 and sensitivity 20000mv/mg of decane)
- Packed column as well as Porapak Q column to be supplied
- Must fitted with Auto injector for 12 vials as well as manual injection port
- Must be supplied with original competing PC/laptop including compatible workstation software provision for dual channel real time chromatographic data acquisition and post-run analysis. Multifunction compatibility, GLP/GMP functions, Audit trail, Validation Assistant, system suitability, QA/QC functions, All-in-one configuration for easy data transfer, customized report generator, networking capability, data management etc. & GC system to be supplied with Rtx 20 mtr Capillary Column 01 No. Suitable standard for estimation of acetate, propionate and butyrate.
- CE compliance.
- Minimum two year comprehensive onsite warranty.