

Specifications for Gas Chromatography-Mass Spectrometer with FID, TCD & MS Detector

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| Gas Chromatograph | <ul style="list-style-type: none">• Gas chromatograph having superior performance.• GC with capability of simultaneous operation of two inlets and four detectors• Automatic leak testing/detection of Pneumatics• Retention time repeatability< 0.008%• Area Repeatability<0.5% RSD |
| GC Oven | <ul style="list-style-type: none">• All temperature and time functions are microprocessor controlled and display on the screen/monitor.• Column oven capable of housing at least two columns with maximum temperature range from ambient + 4° C to 400 °C.• Temperature programming ramps: 20.• Temperature setpoint resolution 0.1 °C.• Maximum temperature ramp rates of 100°C/min.• Cool down of oven from 400° to 50° in less than 5 minutes.• Provision to split the sample to two different detectors and to get results for two detectors simultaneously to save time. |
| Detectors | <ul style="list-style-type: none">• Thermal Conductivity Detector (TCD)• Flame Ionization Detector (FID)• Mass Spectrometer Detector (MS) |
| Auto Sampler/ Auto Injector: 1 Nos | <ul style="list-style-type: none">• Auto Sampler with 15 vials• Capable of self dilution• Area Reproducibility better than 0.5% RSD• Syringe up to 10uL as standard• Vial size: 2mL or 1.5 mL |
| Quadrupole | <ul style="list-style-type: none">• Heated monolithic hyperbolic quadrupole with temp of up to 200 °C. |
| Mass Range | <ul style="list-style-type: none">• Up to 1000 amu |
| Scan Rate | <ul style="list-style-type: none">• Scan rate of 20000 amu/sec. |