

Gas Chromatograph



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Introduction:

This instrument perfectly blends cutting-edge technology with user-friendly design, marking a significant advancement in the field of analytical instruments. Equipped with an industry-leading technology platform and a self-developed advanced data processing system, it not only achieves superior performance but also significantly enhances ease of use, ushering in a new era of intelligent analysis for users and contributing technological power to the development and innovation of related industries.

Features:

- * Supports up to 18 channels of high-precision electronic pressure/flow control(EPC).
- * Featuring a 10-inch high-definition capacitive touchscreen, it can display spectra, all temperature zones, carrier gas flow rates, detector functions, etc. in real time.
- * Instrument methods can be edited on-screen, and firmware versions can be upgraded via USB interface.
- * One-click instrument reset is supported.
- * Intelligent maintenance tracking and reminders are provided, indicating the replacement time for injection pads, liners, etc.
- * The pre- and post-chromatographic channels can be controlled and operated synchronously or asynchronously.
- * It has undergone rigorous functional safety ECM certification, comprehensively enhancing its anti-interference capabilities.

Technical Parameters:

Model	BK-GC906	
Oven	Temperature Range	RT+2~450°C
	Temperature Control Accuracy	0.01°C
	Temperature Program	≥99 levels, 100 platform(expandable)
	Maximum Temperature Heating Rate	250°C/min
	Temperature Control System	An 8-channel independent temperature control system with automatic temperature protection function
Selectable Detector Types	Flame Ionization Detector(FID)	Operating temperature: 450°C
		Detection limit≤1.1 pg C/s(n-hexadecane)
		Baseline drift(30 min)≤2*10 ⁻¹¹ A
		Baseline noise≤2*10 ⁻¹⁴ A
		Dynamic linear range≥10 ⁷
	Thermal Conductivity Detector(TCD)	Automatic ignition function
		Sensitivity≥10,000mV·mL/mg
		Baseline drift(30 min): ≤0.2mV
	Flame Photometric Detector(FPD)	Baseline noise: ≤0.05mV
		Dynamic linear range: ≥10 ⁵
		Safety protection: Gas bridging current protection function
		Maximum operating temperature: 450°C
Electron Capture Detector(ECD)	Limits of detection: P≤80fg/s(methyl parathion), S≤8pg/s(methyl parathion)	
	Dynamic linear range: P≥10 ³ ; S≥10 ²	
	Equipped with automatic ignition function	
Nitrogen-phosphorus Detector(NPD)	Radioactive source: 63Ni	
	Maximum operating temperature: 400°C	
	Limit of detection: ≤1.0*10 ⁻¹⁴ g/mL(γ-666)	
	Dynamic linear range: ≥10 ⁴	
Selectable Sample Injection Method	Maximum operating temperature: 400°C	
	Limit of detection: N: ≤1*10 ⁻¹² g(N)/s(azobenzene); P: ≤5*10 ⁻¹³ g(P)/s(malathion)	
	Dynamic linear range: N≥10 ³ , P≥10 ³	
Selectable Sample Injection Method	It can be used with standard and inert flow path split/splitless capillary injection, septum purge packed column injection, cold column injection, programmable temperature vaporization injection ports, valve injection systems, headspace injection systems, thermal desorption injection systems, etc.	
Standard Accessories	FID detector, general chromatography workstation software, capillary sampler, startup toolkit	
Optional Accessories	Sample injection system, TCD, ECD, FPD and NPD detector, audit chromatography workstation software, chromatographic column, nickel catalytic converter, liquid autosampler, headspace sampler	
Power Supply	AC220V, 50/60Hz	
Product Size(W*D*H)	610*530*500mm	
Net Weight	50kg	
Packing Size(W*D*H)	800*640*750mm	
Gross Weight	63kg	

Remark: 2 different types of detectors can be installed simultaneously.