

GAS CHROMATOGRAPHY SYSTEM LTCGR8-9



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Used in Food Testing, Chemical Industry, Beverage Testing, Drug testing, Forensic Science, Pharmaceutical, Molecular Biology, Medical, Research, Laboratory.

LTCGR8-9 GAS CHROMATOGRAPHY SYSTEM

Control system is designed for monitoring and controlling the instrument via the computer.

Column Compartment/oven with superior thermal performance, multistage (10 ramps) programmed temperature.

Advanced built-in data acquisition system, supporting real time instrument status monitoring, detection signal acquisition and PC control.

Column oven accommodates up to 3 chromatographic columns, and supports quick heat-up and rapid cool-down with automated back-door opening.

Flexible sample introduction system: 3 sample injectors could be installed and operated simultaneously with independent temperature control.

High sensibility and stability detector.

2 independent and analog signals output.

M6 software, compatible with GLP/FDA-21 CFR Part 11 requirements and regulations (electronic records and signatures).

Sample injector and evaporation chamber.



SPECIFICATIONS

Model	LTCGR8-9
Column Oven	
Temperature Range	Ambient temperature +7°C ~ 400°C (in 1°C increment)
Temperature Control Accuracy	± 0.02°C
Programmed temperature setting	0.1°C ~ 40°C/min (in 1°C increment)
Program ramps	7 ramps in total (10 ramps available with control workstation)
Cooling time	400°C to 50°C in 8-10 min at 25°C ambient
Size (LxWxH)	284x280x241mm (internal) 340x345x281mm (external)
Hydrogen flame ionization detector (FID)	
Detection limit	≤ 3x10 ⁻¹² g/s (C16)
Best test result	≤ 3x10 ⁻¹² g/s (C16)
Baseline noise	≤ 5x10 ⁻¹⁴ A
Baseline drift	≤ 6x10 ⁻¹³ A /30 min
Linear range	≥ 106
Thermal Conductivity Detector (TCD)	
Sensitivity	≥5000 mV.ml / mg (C 16)
Baseline noise	≤20 μV
Baseline drift	≤60 μV/h
Linearity range	≥104
Flame Photometric Detector (FPD)	
Detection limit	≤8x10 g / s (P)
≤8x10 g / s (S)	Flame Photometric Detector (FPD): Drift
≤2x10 ⁻¹¹ A/30 min	Flame Photometric Detector (FPD): Baseline noise



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