



GAS CHROMATOGRAPHY BCHR-109

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Chromatography is a technique that enables the separation, identification, and purification of the components of a mixture for qualitative and quantitative analysis. Our extensive range offers variety of products like Gas, Ion and Portable Ion chromatography products to meet all separation needs, including improved resolution, enhanced sensitivity, faster analysis and consistent performance.

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

Also known as Laboratory Chromatography.

BCHR-109 GAS CHROMATOGRAPHY



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	BCHR-109
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	≥ 10 ⁶
Thermal Conductivity Detector (TCD)	
Sensitivity	≥5000 mV.ml / mg (C 16)
Baseline noise	≤20 μV
Baseline drift	≤60 μV/h
Linearity range	≥10 ⁴
Flame Photometric Detector (FPD)	

Detection limit	$\leq 8 \times 10 \text{ g / s (P)}$
$\leq 8 \times 10 \text{ g / s (S)}$	Flame Photometric Detector (FPD): Drift
$\leq 2 \times 10^{-11} \text{ A/30 min}$	Flame Photometric Detector (FPD): Baseline noise



Biolab Scientific Ltd.

3660 Midland Avenue, Suite 300, Toronto, Ontario M1V 0B8, Canada
Email: contact@biolabscientific.com | Website: www.biolabscientific.com