



CHROMATOGRAPHY BHC1B1 (BCHR-109)

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GAS CHROMATOGRAPHY

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 a 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.



The 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.

The 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.

SPECIFICATIONS

Model	BHC1B1
Old 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)
Detector	FID
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 (C16)
- Linearity range	≥10 ⁴
Flame Photometric Detector (FPD)	
- Detection limit (S)	≤8x10 ⁻¹⁰ g/s (S)
- Drift	≤2x10 ⁻¹¹ A/30 min
Alt Name	Gas Chromatography

FEATURES

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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.

APPLICATIONS

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



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