



# PRODUCT CATALOG



## CHROMATOGRAPHY BHB-301

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## GAS CHROMATOGRAPHY

The Gas chromatograph system is a new product with an intelligent interconnection system for the new century. It features a large-sized touch-capacitive display for easy and fast switching between functions, and it combines external control with intelligent interconnection to meet specific analytical needs. Additionally, this instrument is equipped with a high-performance IoT (Internet of Things) system. It has an upgraded 6th-generation EPC (Electronic pneumatic control) function, making the instrument more intelligent and integrated. The inclusion of Bluetooth allows for digital control of the instrument, and the variable frequency temperature control system improves temperature accuracy and control efficiency.



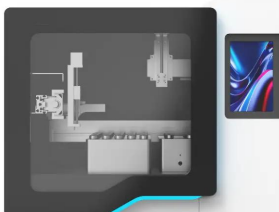
- Network-controlled data processing system.
- Super-silent motor system.
- Intelligent temperature control system.
- High-precision mechanical valve gas flow control system.
- Precision mechanical valve control system (pressure sensing or mechanical valve optional).
- Intelligent and user-friendly operating interface, supporting both Chinese and English languages (optional).
- Colorful 7-inch LED screen design, facilitating easy operation with a clear interface.
- Independent DOTHUNET workstation, supporting the simultaneous operation of multiple chromatographs (up to 300 units) for data processing and feedback control, a

## SPECIFICATIONS

Model	BHB-301
General Specifications	
--Temperature control zones	8 channels
--Temperature control range	5°C to 350°C above room temperature
--Increment	1°C
--Accuracy	±0.01°C
--Program temperature ramp steps	32 steps / 33 platforms.
--Number of detectors	3 (maximum); options include FID, TCD, ECD, FPD, NPD, PDHID.
Flame Ionization Detector (FID)	
--Minimum LOD	≤3x10 <sup>-12</sup> g/s (n-hexane to iso-octane solution)
--Baseline noise	≤5x10 <sup>-14</sup> A
--Baseline drift	≤1x10 <sup>-13</sup> A/30 min
--Linear dynamic range	≥10 <sup>6</sup>
Thermal Conductivity Detector (TCD)	
Electron Capture Detector (ECD)	
--Radiation source	63Ni
Flame Photometric Detector (FPD)	
Alt Name	Gas Chromatography

## ITEMS INCLUDED

No	Image	Name	Description

1		Headspace Sampler	<p>The Smart Cloud Platform Multi-Position Headspace Sampler is a newly developed and designed smart functional headspace sampler by our company. It emphasizes intelligent features and visual memory capabilities. With its innovative structural design that utilizes XYZ three-axis movement, it boasts accurate positioning, precise operation algorithms, short trajectory curves, high speed, efficiency, and user-friendly operation. It comes standard with a heating oscillation function.</p>
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## FEATURES

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Super-silent motor system.

Intelligent temperature control system.

High-precision mechanical valve gas flow control system.

Precision mechanical valve control system (pressure sensing or mechanical valve optional).

Intelligent and user-friendly operating interface, supporting both Chinese and English languages (optional).

Colorful 7-inch LED screen design, facilitating easy operation with a clear interface.

Independent DOTHUNET workstation, supporting the simultaneous operation of multiple chromatographs (up to 300 units) for data processing and feedback control, achieving industry-leading levels.

FID detector features automatic ignition and gas circuit opening.

The system design allows for external pre-processing devices, supporting various models of external gas and fluid sampling systems (headspace sampler, gas sampler, pyrolysis analyzer, etc.).

## APPLICATIONS

The Gas Chromatograph has a wide range of applications, and customized instruments are more scientific. It is used in various industries, such as industrial and mining enterprises, third-party testing organizations, pharmaceutical companies, universities, research institutions, quality inspection, environmental testing, petrochemicals, food safety, and other fields for qualitative and quantitative analysis and testing.



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