



GAS CHROMATOGRAPHY BCHR-108

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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-108 GAS CHROMATOGRAPHY



The host uses a 7-inch color touch screen, electronic display gas flow and pressure values.

Computer anti-control (need to choose PC-side anti-control software) and the host touch screen to achieve synchronous two-way control.

Multi-core, 32-bit embedded hardware system to ensure reliable operation of the instrument.

One key to start function.

Extensible synchronous external triggering function can be initiated by external signals (autosampler, thermal analyzer, etc.) at the same time to start the host and workstation.

It has a perfect system self-test function and automatic fault recognition.

Extended interface with 8 external events, which can be equipped with various function control valves and operate according to their own timing.

20 sets of sample test mode memory function.

SPECIFICATIONS

| Model | BCHR-108 |
|--|---------------------------------------|
| Column Oven | |
| Inner volume | 22 L |
| Temperature Range | 5°C - 400°C (room temperature) |
| Temperature Control Accuracy | ± 0.1°C |
| Heating Rate | 0.1 - 60°C /min |
| The order of heating of the program | 9 |
| Program Temperature Repeatability | ≤ 2% |
| Cooling Method | After the door |
| Cooling Rate | ≤ 10 mins (250°C - 50°C) |
| Sampler | |
| Temperature Control Range | 7°C - 420°C (room temperature) |
| Temperature Control Mode | Independent temperature control |
| Carrier gas flow control mode | Constant pressure |
| Number of simultaneous installations | Up to 3 |
| Injection unit type | Packed column, shunt |
| Split ratio | Display |
| Pre column pressure range | 0-400 kpa |
| Pre column pressure control accuracy | 0.1 kpa |
| Flow setting range | H2O - 200 ml / min N2O - 150 ml / min |
| Hydrogen flame ionization detector (FID) | |

| | |
|--------------------------------------|---|
| Temperature control range | 7°C - 420°C (room temperature) |
| Number of simultaneous installations | Up to 2 |
| Ignition function | Automatic |
| Detection limit | $\leq 3 \times 10^{-12}$ g/s (n-hexadecane) |
| Baseline noise | $\leq 5 \times 10^{-14}$ A |
| Baseline drift | $\leq 6 \times 10^{-13}$ A |
| Dynamic range | 107 |
| RSD | $\leq 3\%$ |
| Thermal Conductivity Detector (TCD) | |
| Sensitivity | 5000 mV.ml / mg (n-hexadecane) |
| Baseline noise | ≤ 0.05 mV |
| Baseline drift | ≤ 0.15 mV / 30 min |
| Dynamic range | 105 |
| Other Specifications | |
| Power supply voltage | 220 V \pm 22 V, 50 Hz \pm 0.5 Hz |
| Power | 3000 W |



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