

# GC102AF Gas Chromatograph

NEW



As a new generation instrument, GC102AF Gas Chromatograph applies the computer reverse control technology and can conduct remote detection and fault diagnosis, equipped with a flame ionization detector (FID).

## Features

- PC control, user-friendly interface, and easy to operate.
- Temperature control is of high accuracy (better than  $\pm 0.1^{\circ}\text{C}$ ). Heating speed is fast and overshoot temperature is small.
- Self-diagnosis, power protection, oven over-temperature protection, and automatic ignition.
- It can accurately display the temperature control settings, actual value, and FID amplifier sensitivity.
- The single gas system and precise scale pneumatic control valve contribute to excellent reproducibility and stability and can perform analysis of packed column.
- Packed column: on-column injection, instantaneous vaporization injection, gas injection.
- Open computer system and NJ2000 chromatography workstation can work together to process data.
- Large capacity oven (300mm×280mm×270mm) facilitates the installation of packed column.
- Built-in heating wire structure.

## Technical Specifications:

### Temperature Control:

1. Temperature area: column oven, sampler, detector
2. Temperature range:  $15^{\circ}\text{C} \sim 399^{\circ}\text{C}$  above room temperature (increment:  $1^{\circ}\text{C}$ )
3. Temperature accuracy: better than  $\pm 0.1^{\circ}\text{C}$  (measured at  $200^{\circ}\text{C}$ )

### Flame Ionization Detector (FID):

1. Detection limit:  $Dt \leq 1 \times 10^{-10} \text{ g/s}$  (octane and hexadecane)

2. Baseline drift:  $\leq 2 \times 10^{-12} \text{ A/h}$
3. Linear range:  $\geq 10^6$
4. Max. limit temperature:  $400^{\circ}\text{C}$

### Others:

1. Voltage:  $220\text{V} \sim \pm 22\text{V}$   $50\text{Hz} \pm 0.5\text{Hz}$
2. Power:  $\leq 1500\text{W}$
3. Dimensions:  $575\text{mm(L)} \times 480\text{mm(W)} \times 490\text{mm(H)}$
4. Weight:  $50\text{kg}$

## Optional Accessories:

- N2000 chromatography workstation