

Fuli instruments
welcome suitable
distributors all over
the world to talk
about cooperation.

Fuli Instruments

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Ex²-Chrom Gas chromatograph

GC9790 plus

MAKING
Expanded&Excellent



GC9790PLUS gas chromatograph



System capability

- Assembly simultaneously: 3 inlets+3 detectors(FID, TCD, ECD, FPD and NPD)
- Automatic control can be done from local keyboard and networked PC
- 6 channels independent temperature control

Gas system

- Carrier gas via EPC/AFC, auxiliary gas via AFS(Advanced Flow Scout) + mechanical regulator
- Carrier gas and make-up gas selectable: He, H₂, N₂ and Ar. Every carrier gas system can control via constant-pressure, constant-flow, programmable pressure and programmable flow mode, also can calibrate with He, H₂, N₂ and Ar
- Psi, KPa, Bar units selectable
- Pressure control range: 1~90Psi, Pressure accuracy: 0.01Psi, Programmable pressure ramp RSD ≤0.5%
- Flow rate control range: 0 ~ 200ml/min, flow rate accuracy: 0.1ml/min, flow rate RSD≤0.1%

Inlets

- controlled by EPC/AFC, split/splitless capillary+packed available
- Max temperature: 400°C

Column oven

- Column oven dimension: 260×250×150mm
- Temp. control range: RT+6°C~399°C(0.1°C increment)
- Programming temp.-ramp : 8 steps
- Temp. ramp speed: 0.1~40°C≤1 minute(0.1°C increment)
- Fast cool down speed: 200~100°C≤3.5 minutes
- Temp. accuracy: ±0.1°C
- Max run time: 999.99 minutes

Detector spec

Detector	Max operating temp.	Limit of detection	Baseline noise	Baseline drift (after 2hrs stabilization)	Linear dynamic range
FID	400°C	≤5.0×10 ⁻¹² g/s (N-C16)	≤2×10 ⁻¹³ A	5×10 ⁻¹³ A/30 min	≥10 ⁷
TCD	400°C	≥8000mV.ml/mg (N-C16)	≤20uV	≤100uV/30min	≥10 ⁴
ECD	350°C	≤ 1×10 ⁻¹³ g/ml (γ-666)	≤20uV	≤50uV/30min	≥10 ⁴
FPD	400°C	S: ≤5.0×10 ⁻¹¹ g/s P: ≤1.4×10 ⁻¹² g/s	≤2×10 ⁻¹¹ A	≤4×10 ⁻¹¹ A/30min	S: ≥10 ² P: ≥10 ³
NPD	400°C	N: ≤1×10 ⁻¹² g/s(Azobenzene) P: ≤5×10 ⁻¹³ g/s(Malathion)	≤4×10 ⁻¹³ A	2×10 ⁻¹² A/30min	N: ≥10 ³ P: ≥10 ³

Autosampler



Syringe spec	1, 5, 10, 25, 50, 100, 250, 500(μl)
Sampling vial	19 sample+2 solvent +1 waste=22
Sampling times per sample	0~99
Max interval	999minutes
Min sampling volume	0.1μl
Max sampling volume	250μl
Selection	1~20
Max sampling inlet	1
Max washing times	99
Max pumping times	99
Viscosity delay	0~60s
Pre-sampling and Post-sampling retention time	0~120s
Sampling needle speed	Fast, low
Extract, sampling speed	Fast, low
Control method	Interval self-control and signal counter-control

FL97PLUS Workstation

- **Counter-control:** Can set up all parameters used in the analysis through workstation, and monitor real time information of detector flow.
- **Comprehensive quantitative method:** Area normalization, external standard method, internal/multi-internal standard method, index analysis and grouping calculation.
- **Other functions:** audit trail, electronic signature, authority management to meet GMP regulation

Manual, automatic valve and valve switch



- Heating preservation valve box is available
- Manual and automatic valve selectable
- Customization is available
- One-time injection, all component analysis for complicated gas mixture analysis