GC9790 II Gas Chromatograph

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High stability
Most universal
Easy installment
Very competitive price
Excellent after-sales service

■ System capability

Assembly simultaneously: 2 inlets+3 detectors(FID, TCD, ECD, FPD and NPD);
Large 320*240 LCD screen;
Carrier gas control: pressure/flow regulator, can show value in PC;
6 channels independent temperature control;
Counter-control mode;
Gas injection valve, headspace and thermal desorption autosampler are optional.

■ Column oven

Column oven dimension: 260×250×150mm;
Temp. control range: RT+6℃~399℃(0.1℃ increment);
Programming temp.-ramp : 8 steps;
Temp. ramp speed: 0.1~40℃/minute(0.1℃ increment);
Fast cool down speed: 200~100℃≤3 minutes;
Temp. fluctuation: ±0.1℃;
Max run time: 9999.9 minutes.

■ Inlet

Split capillary, split/splitless capillary and packed inlet are selectable;
Max temperature: 400℃.

■ Workstation and data sampling

FULI workstation compatible with PC ;
Windows XP/7 support;
Signal output: -1500℃+1500mV;
Sampling speed: 60 times/sec;
Sampling sensitivity: 0.025μV/s;
Sampling accuracy: 0.05%;
Real-time pressure/flow/temperature monitor.

■ Basic info

Voltage: 220V±10%, 50Hz;
Power: 2500W;
Dimension: 565×510×490mm;
Net weight: 50KG.

■ Detector spec

	Max temp.	Limit of detection	Baseline Noise	Drift	Linear dynamic range
FID	400℃	$\leq 5*10^{-12}$g/s (N-C16)	$\leq 2*10^{-13}$A	$\leq 5*10^{-13}$A/30min	$\geq 10^7$
TCD	400℃	≥ 8000mV.ml/mg (N-C16)	≤ 20uA	≤ 100uV/30min	$\geq 10^4$
ECD	350℃	$\leq 1*10^{-13}$g/ml ($\gamma - 666$)	≤ 20uA	≤ 50uV/30min	$\geq 10^4$
FPD	400℃	S:$\leq 5*10^{-11}$g/s P:$\leq 1.4*10^{-12}$g/s	$\leq 2*10^{-11}$A	$\leq 4*10^{-11}$A/30min	S: $\geq 10^2$ P: $\geq 10^3$
NPD	400℃	N: $\leq 1*10^{-12}$g/s(Azobenzene) P: $\leq 5*10^{-13}$g/s(Malathion)	$\leq 4*10^{-13}$A	$\leq 2*10^{-12}$A/30min	N: $\geq 10^3$ P:$\geq 10^3$

Application

【Petrochemistry】
※Crude oil component,Refinery gas, mineral gas, Simple substance hydrocarbon, Sulfur and azotic compound, Gasoline dope, Aliphatic hydrocarbon, Aromatic hydrocarbon
※Cosmetics (methyl alcohol, cantharis, chlormethine, etc.)

【Environmental Monitoring】
※Air pollutant analysis (TVOC, sulfide, nitrogen oxide, non-methane total hydrocarbon, formaldehyde, etc.)
※Water analysis (multi-link aromatic hydrocarbon, pesticide residue, organic solvent, organic pollutant, sulfide, etc.)
※Soil analysis (organic pollutant, solid waste analysis, etc.)
※Permenant gas detection (water, hydrogen, oxygen, nitrogen, carbon monoxide, etc.)

【Food Sanitation】
※Fatty acid methyl ester analysis
※Pesticide residue analysis (organic chlorine, organophosphorus, chrysanthemum ester agricultural chemicals, etc.)
※Spice essence analysis
※Food additive analysis (benzoic acid, sweet element, total sulfur determination, etc.)
※Food packing material volatile matter analysis (vinyl chloride, styrene,ethyl benzene, etc.)
※Food nutrients analysis (DHA, EPA, unsaturated fatty acid, monosaccharide, Vitamin, etc.)

【Power Industry】
※Insulating oil sulfur hexafluoride, tetrafluoro-methane, air determination

【Education Scientific Research】
※Teaching demonstration, student test, scientific research