

**GAS CHROMATOGRAPHY**
**Applications:**

SP-3400 Gas Chromatograph, made according to international standards, its technical feature and index are in the world high level. The key components are imported from world famous suppliers. It is widely used for petrol-chemistry, environmental protection, epidemic prevention, pharmacology, scientific research, etc.


**SP3400 Gas Chromatograph**
**SP3400 Specifications**
**Column Oven**

Operating temperature	ambient to 420°C
Cooling time	250°C to 50°C in 5 min
Temperature programming rate	0.1~50°C/min
Programmable oven with 4-ramp temperature control	
Dual opening door at the back of column oven	

**Injector System**

Operating temperature	ambient to 420°C
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**Thermal conductivity detector (TCD)**

Maximum Temperature	420°C
Sensitivity	≥ 12000mv*mL/mg (for butane)
Linear range	10 <sup>5</sup>
Current range	50 to 400mA

**Filament Protection**

If He or H<sub>2</sub> carrier gas flow in the detector cell is cut off for 4 minutes, filament power will be shut off automatically

**Flame Ionization detector (FID)**

Maximum Temperature:	420°C
Minimum detectivity	≤1.3 x 10 <sup>-12</sup> g/s (n-C16)
Linear range	10 <sup>7</sup>
Flameout hint:	Monitoring the status of GC continuously after being turned on.

**Electron capture detector - ECD**

Maximum Temperature	420°C
Minimum detectivity	≤0.1 pg/mL (γ-666)
Linear range	10 <sup>4</sup>
Emission source	11mC63Ni

**Flame Photometric detector-FPD**

Maximum Temperature	420°C
Minimum detectivity	[P] ≤1 x 10 <sup>-12</sup> g/s (tributyl phosphate) [S] ≤1 x 10 <sup>-10</sup> g/s (p-methyl sulphur phosphorous)
Linear range	[P]:10 <sup>5</sup> [S]:10 <sup>3</sup>
Two air-hydrogen flames	for large volume injection or trace sample injection analysis;
Single air-hydrogen flame	sulphur sensitivity can be increased
Direct output	for phosphorus or sulphur analysis
Square root output	for sulphur analysis
Exposed light protection	When exposed light current is more than 12μA, high voltage will be cut off automatically

**Nitrogen-phosphorus detector-TSD**

Maximum Temperature	420°C
Minimum detectivity	[N] ≤1 x 10 <sup>-13</sup> g/s (azobenzene) [S] ≤5 x 10 <sup>-14</sup> g/s (p-methyl sulphur phosphorous)
Linear range	[N]:10 <sup>5</sup> [P]:10 <sup>4</sup>

**SP 3420A Gas Chromatograph**

**SP3420A Specifications**
**Column Oven**

Operating temperature	ambient to 400°C
Cooling time	250°C to 50°C in 5 min
Temperature programming rate	0.1~50°C /min
Programmable oven with 4-ramp temperature control	
Dual opening door at the back of column oven	

**Injector System**

Operating temperature	ambient to 400°C
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**Thermal conductivity detector (TCD)**

Maximum Temperature	400°C
Sensitivity	≥ 10000mv*mL/mg (for butane)
Linear range	10 <sup>5</sup>
Current range	50 to 400mA

**Filament Protection**

If He or H<sub>2</sub> carrier gas flow in the detector cell is cut off for 4 minutes, filament power will be shut off automatically

**Flame Ionization detector (FID)**

Maximum Temperature	400°C
Minimum detectivity	≤ 5 x 10 <sup>-12</sup> g/s (n-C16)
Linear range	10 <sup>7</sup>
Flameout hint:	monitoring the status of GC continuously after being turned on.

**Electron capture detector - ECD**

Maximum Temperature	400°C
Minimum detectivity	≤0.1 pg/mL (γ-666)
Linear range	10 <sup>4</sup>
Emission source	11mC63Ni

**Flame Photometric detector-FPD**

Maximum Temperature	400°C
Minimum detectivity:	[P] ≤2 x 10 <sup>-12</sup> g/s (tributyl phosphate) [S] ≤2 x 10 <sup>-10</sup> g/s (p-methyl sulphur phosphorous)
Linear range	[P]:10 <sup>5</sup> [S]:10 <sup>3</sup>
Two air-hydrogen flames	For large volume injection or trace sample injection analysis
Single air-hydrogen flame:	sulphur sensitivity can be increased;
Direct output	for phosphorus or sulphur analysis
Square root output	for sulphur analysis
Exposed light protection	When exposed light current is more than 12μA, high voltage will be cut off automatically

**Nitrogen-phosphorus detector-TSD**

Maximum Temperature	400°C
Minimum detectivity	[N] ≤2 x 10 <sup>-13</sup> g/s (azobenzene) [S] ≤1 x 10 <sup>-13</sup> g/s (p-methyl sulphur phosphorous)
Linear range	[N]:10 <sup>5</sup> [P]:10 <sup>4</sup>

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