

SHINE

SH-CIC3200

On-line Combustion Ion Chromatograph

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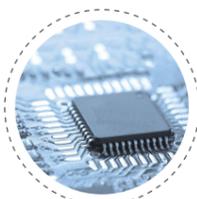
WIDE APPLICATION FULL COMBUSTION



Mining Industry



Materials and
Chemical Industry



Semiconductor



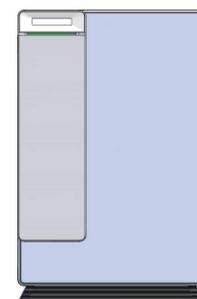
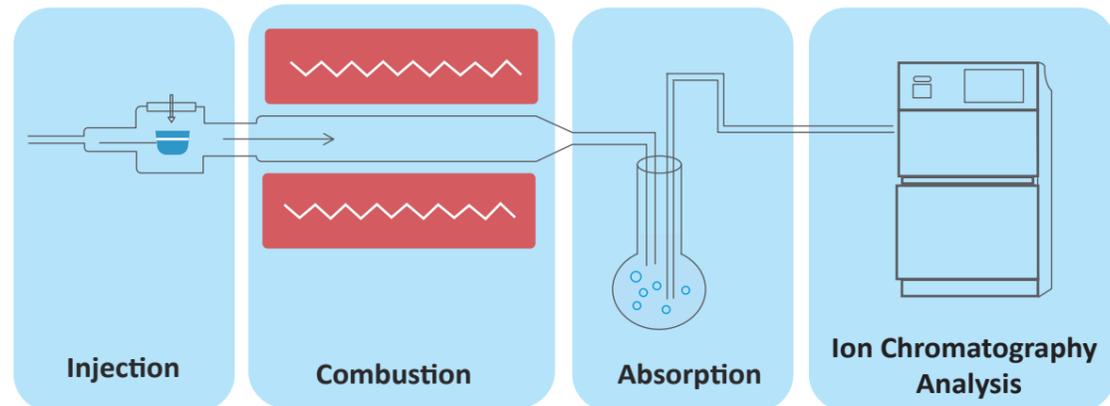
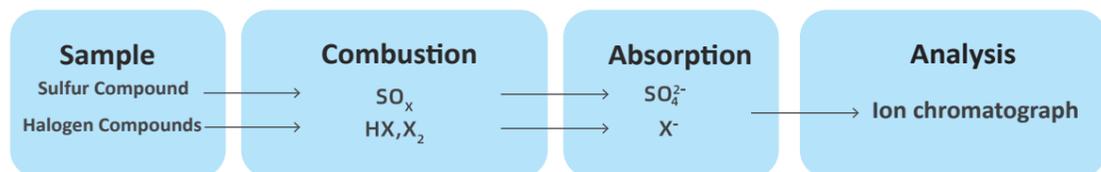
Hydrogeology



Petrochemical
Industry



Environment
Protection



Ion Chromatograph



Absorption Unit



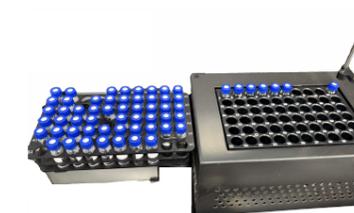
Combustion Unit



Cooling Unit

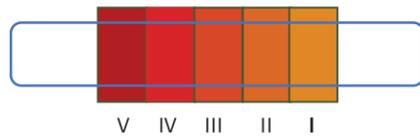


Sample Retention Unit



liquid Autosampler

FUNCTIONAL COMPLETION



© Five-temperature zone design, gradual heating up. The heating procedure is controllable to ensure full sample combustion



© Peltier cooling unit, the minimum can be as low as 5°C, to effectively improve the recovery rate



Supporting Enrichment



Supporting Basal Elimination



Automatically Rinse



Automatic Configuration the Absorption Solution



Automatic Sample Retention



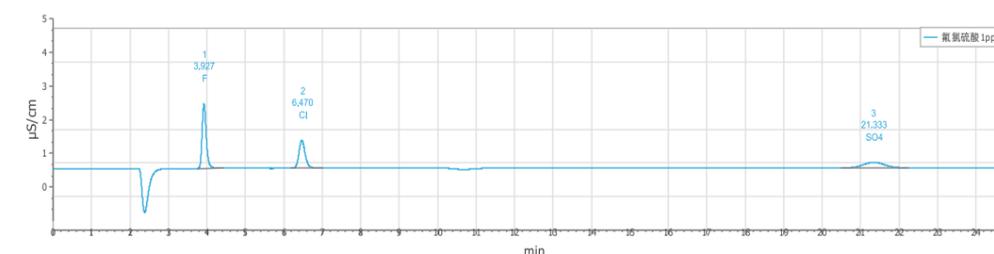
Automatically Draw the Standard Curve

EQUIPMENT PARAMETERS

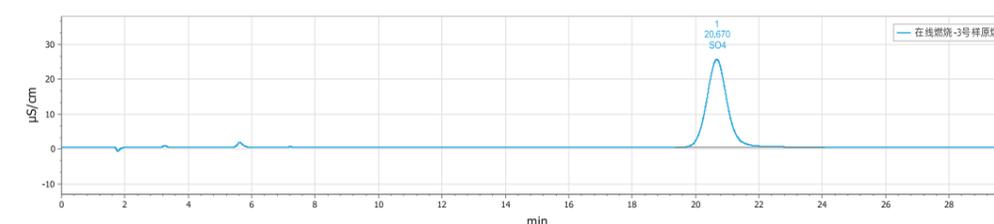
Combustion furnace temperature range	Room temperature~1200 ℃
Argon protective gas flow range	0-300 sccm (standard mL/min)
Oxygen combustion gas flow range	0-500 sccm (standard mL/min)
Autosampler	50 position autosampler
Solid/liquid sample injection volume	0~250mg
Absorption liquid volume	5-100mL
Cracking steam generation method	Add by injection pump, vaporize into water vapor after entering the combustion furnace
Maximum injection volume of injection pump	5mL
Injection pump accuracy	0.01mL/min
Analysis time	Combustion (20 minutes) ; Absorption (10 minutes) ; Analysis (20 minutes)
Injection method	6-point 5-segment injection method
Temperature zone setting	5-temperature zones, with a center temperature of 1200 ℃ and temperature displayed in each zone
Positions of automatic sample retention devices	46
Cooling method of cooling unit	Peltier cooling
Minimum cooling temperature	5 ℃
Enrichment function	Can be connected to an enrichment column to enrich the test ions, suitable for low concentration samples
Base elimination	Can effectively eliminate the influence of hydrogen peroxide on the detection results
Detector	Constant temperature automatic range conductivity detector
Maximum withstand pressure	10MPa
Linear range	$\geq 10^3$
Instrument linearity	≥ 0.999
Qualitative repeatability	$\leq 0.5\%$
Quantitative repeatability	$\leq 1.0\%$

APPLICATION SCHEME

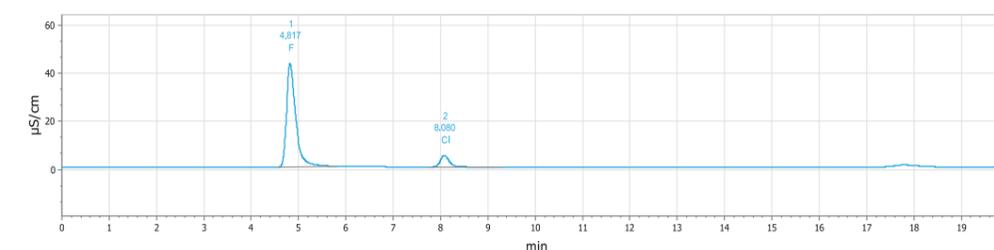
Detection of Fluorine, Chlorine, and Sulfur in Graphite



Detection of Sulfur in Coal



Detection of Fluorine and Chlorine in Copper Ore



Detection of Fluorine and Chlorine Content in Phenylbutyl Ether

