

ION CHROMATOGRAPHY CHR19-035I



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Chromatography is a technique that enables the separation, identification, and purification of the components of a mixture for qualitative and quantitative analysis. Our extensive range offers variety of products like Gas, Ion and Portable Ion chromatography products to meet all separation needs, including improved resolution, enhanced sensitivity, faster analysis and consistent performance.

Used in Food Testing, Chemical Industry, Beverage Testing, Drug testing, Forensic Science, Pharmaceutical, Molecular Biology, Medical, Research, Laboratory.

Also known as Laboratory Chromatography.

CHR19-035I ION CHROMATOGRAPHY

Cation and anion dual-channel system, with both channels operating independently without disturbing each other and cations and anions being detected simultaneously.

Eluent thermal buffer system in which eluent enters into the columns after preheated, to avoid bubbles generated from rapid heating.

Intelligent flow path mode, one-key operation to complete flow path switch, automatic cleaning to save time and labor.

Built-in low-pressure degassing technology to eliminate bubble interference for more stability.

The world's leading full-range series of chromatographic columns able to detect of ions with varied compositions.

Excellent performance to support all your applications.Ion Chromatographic Pump: Type - High-pressure and low-pulse two-piston tandem advection pump

Numerical-control and Electromagnetic Sample Injector: Contact Material of the Rotor - PEEK

Numerical-control and Electromagnetic Sample Injector: Control Mode - By Stepper motor

Conduction Detection System: Type - Temperature control and bipolar conductivity detector



SPECIFICATIONS

Model	CHR19-035I
Ion Chromatographic Pump	
Pressure Display Accuracy	≤ 0.1 MPa
Maximum Pressure	35 Mpa (PEEK)
Flow Range	0.001 ~ 9.999 mL/min
Resolution of Flow Rate	0.001 ml
Flow Precision	< 0.1%
Flow Accuracy	< 0.1%
Pressure Pulse	≤ 0.5%
Flow Stability	$(0.2-0.5) \text{ mL/min} \le 3\%$; $(0.5-1.0) \text{ mL/min} \le 2\%$; $> 1.0 \text{ mL/min} \le 2\%$
Numerical-control and Electromagnetic Sample Injector	
Maximum Pressure	35 Mpa
Power Supply	24 V (DC)
Column Heater	
Operating Temperature Range	+20°C~60°C (68~140°F)
Controlling Temperature Accuracy	± 0.01°C

Temperature Stability Conduction Detection System Cell Volume Detection Mode Detection Range Detection Range Detection Resolution Output Voltage Electronic Noise Baseline Noise Baseline Noise Baseline Drift Controlling Temperature Range Controlling Temperature Accuracy Maximum Pressure Linear Range Linear Range Quantitative Repeatability Thermal Buffer System of Eluent Temperature Range Wacum Degree Wacuum Degree Maximum Flow Rate Maximum Flow Rate Degassing Efficiency Maximum Flow Rate Degassing Efficiency Degassing Efficiency Alpha Linear Range Before enter into the column, the eluent is preheated. By the way, can avoid the rapid heating up and the bubbles to generate, the baseline is more stable, effectively shorten the start-up balance time and improve the analysis efficiency and effect. Temperature Range Vacuum Degree Abusimum Flow Rate Degassing Efficiency 10 mL/min 90%	Allowable Deviation of Column Heater's Temperature	± 1°C
Conduction Detection System Cell Volume Detection Mode Detection Mode Detection Range O-50000 µS/cm School pS/cm Detection Resolution Output Voltage Electronic Noise Baseline Noise Baseline Noise Baseline Noise SougµS Operating Temperature Range Room temperature +5°C -60°C (41~140°F) Controlling Temperature Accuracy Abazimum Pressure Instrument Linearity Quanitative Repeatability Thermal Buffer System of Eluent Before enter into the column, the eluent is preheated. By the way, can avoid the rapid heating up and the bubbles to generate the baseline is more stable, effectively shorten the start-up balance time and improve the analysis efficiency and effect. Temperature Range Built-in and Low-pressure Degassing Device Vacuum Degree Maximum Flow Rate Internal Volume Degassing Efficiency Flow System Six-way Valve Built in Eluent Generator Eluent Types Eluent Types Eluent Gonerator Eluent Types Six-way Valve Built in Eluent Generator Eluent Types Concentration Increment O.1 mM Flow Rate Range O.1-50 mL/min Minimum Pressure O.1-50 mL/min Maximum Pressure Suppressor Self-Regenerating electrolytic micro-membrane suppressor Maximum Pressure O.0 Mpa Dead Volume Other Specifications Dimension (LWWH) Net Weight Net Weight	·	≤ 0.05°C/h
Cell Volume ≤ 0.8µL Detection Mode Bipolar conductivity detection Detection Range 0 −50000 μSyCrm Detection Range 0 −50000 μSyCrm Detection Resolution ≤ 0.002 μSyCrm Output Voltage −6000 + 45000 mv (adjustable) Electronic Noise 0.02 nS Baseline Noise ≤ 0.001 μSyCrm Baseline Drift ≤ 0.02 μS Operating Temperature Range Room temperature +5°C~60°C(41~140°F) Controlling Temperature Accuracy ±0.01°C Maximum Pressure 10.0 Mpa Linear Range ≥ 10.3 Instrument Linearity ≥ 0.999 Quantitative Repeatability ≤ 1.0% Thermal Buffer System of Eluent Before enter into the columnthe eluent is preheated. By the way, can avoid the rapid heating up and the bubble to generate the baseline is more stable, effectively shorten the start-up balance time and improve the analysis efficiency and effect. Temperature Range 25~40°C (77~104°F) Built-in and Low-pressure Degassing Device 25~40°C (77~104°F) Vacuum Degree -70 kPa Built-in and Low-pressure Degassing Device 25~40°C (77~104°F)		2 3.00 3,1
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Baseline Drift ≤ 0.02μS Operating Temperature Range Room temperature +5°C60°C(41~140°F) Controlling Temperature Accuracy ±0.01°C Maximum Pressure 10.0 Mpa Linear Range ≥ 10 3 Instrument Linearity ≥ 0.999 Quantitative Repeatability ≤1.0% Qualitative Repeatability ≤1.0% Thermal Buffer System of Eluent Before enter into the column, the eluent is preheated. By the way, can avoid the rapid heating up and the bubbles to generate, the baseline is more stable, effectively shorten the start-up balance time and improve the analysis efficiency and effect. Temperature Range 25~40°C (77~104°F) Built-in and Low-pressure Degassing Device Vacuum Degree -70 kPa Maximum Flow Rate 10 mL/min Internal Volume 30 μL Degassing Efficiency 10 mL/min 90% Flow System Six-way Valve PEEK material, pressure 5000 psi; Independent automatic collecting and flow function. Built in Eluent Generator Eluent Types ROH/MSA Eluent Concentration Range 0.1-120 mM Concentration Increment 0.1 mM Flow Rate Range 0.1-120 mM Concentration Increment 0.1-5.0 mL/min Maximum Pressure 20 Mpa Minimum Pressure 20 Mpa Minimum Pressure 5 Mpa Suppressor Type Self-Regenerating electrolytic micro-membrane suppressor Maximum Pressure 6.0 Mpa Dead Volume 450 μL Other Specifications Dimension (LxWxH) 500x500x760 mm Net Weight		
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Instrument Linearity		
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Built-in and Low-pressure Degassing Device Vacuum Degree -70 kPa Maximum Flow Rate 10 mL/min Internal Volume 30 μL Degassing Efficiency 10 mL/min 90% Flow System Six-way Valve PEEK material, pressure 5000 psi; Independent automatic collecting and flow function. Built in Eluent Generator Eluent Types KOH/MSA Eluent Concentration Range 0.1-120 mM Concentration Increment 0.1 mM Flow Rate Range 0.1-5.0 mL/min Maximum Pressure 20 Mpa Minimum Pressure 5 Mpa Suppressor Type Self-Regenerating electrolytic micro-membrane suppressor Maximum Pressure 6.0 Mpa Dead Volume <50 μL Other Specifications Dimension (LxWxH) 500x500x760 mm Net Weight		avoid the rapid heating up and the bubbles to generate, the baseline is more stable, effectively shorten the start-up balance time and improve
Vacuum Degree-70 kPaMaximum Flow Rate10 mL/minInternal Volume30 μLDegassing Efficiency10 mL/min 90%Flow SystemPEEK material, pressure 5000 psi; Independent automatic collecting and flow function.Built in Eluent GeneratorKOH/MSAEluent TypesKOH/MSAEluent Concentration Range0.1-120 mMConcentration Increment0.1 mMFlow Rate Range0.1-5.0 mL/minMaximum Pressure20 MpaMinimum Pressure5 MpaSuppressorSelf-Regenerating electrolytic micro-membrane suppressorMaximum Pressure6.0 MpaDead Volume<50 μL	Temperature Range	25~40°C (77~104°F)
Maximum Flow Rate10 mL/minInternal Volume30 μLDegassing Efficiency10 mL/min 90%Flow SystemPEEK material, pressure 5000 psi; Independent automatic collecting and flow function.Built in Eluent GeneratorEluent TypesKOH/MSAEluent Concentration Range0.1-120 mMConcentration Increment0.1 mMFlow Rate Range0.1-5.0 mL/minMaximum Pressure20 MpaMinimum Pressure5 MpaSuppressor5 MpaTypeSelf-Regenerating electrolytic micro-membrane suppressorMaximum Pressure6.0 MpaDead Volume<50 μL	Built-in and Low-pressure Degassing Device	
Internal Volume Degassing Efficiency 10 mL/min 90% Flow System Six-way Valve PEEK material, pressure 5000 psi; Independent automatic collecting and flow function. Built in Eluent Generator Eluent Types KOH/MSA Eluent Concentration Range O.1-120 mM Concentration Increment Flow Rate Range 0.1-5.0 mL/min Maximum Pressure 20 Mpa Minimum Pressure 5 Mpa Suppressor Type Self-Regenerating electrolytic micro-membrane suppressor Maximum Pressure 5 Mpa Self-Regenerating electrolytic micro-membrane suppressor Maximum Pressure 6.0 Mpa Dead Volume < 50 μL Other Specifications Dimension (LxWxH) Net Weight 48 kg	Vacuum Degree	-70 kPa
Degassing Efficiency Flow System Six-way Valve Built in Eluent Generator Eluent Types Eluent Concentration Range Concentration Increment Flow Rate Range Minimum Pressure Suppressor Type Self-Regenerating electrolytic micro-membrane suppressor Maximum Pressure Self-Regenerating electrolytic micro-membrane suppressor Maximum Pressure Dead Volume Other Specifications Dimension (LxWxH) Net Weight PEEK material, pressure 5000 psi; Independent automatic collecting and flow micro-membrane suppressor petch flow function. ROM, material, pressure 5 KOH/MSA Loud Fleek Material, pressure 5000 psi; Independent automatic collecting and flow function. Self-Minimum Pressure 20 Mpa Self-Negenerating electrolytic micro-membrane suppressor 6.0 Mpa 500x500x760 mm Het Weight	Maximum Flow Rate	10 mL/min
Flow System Six-way Valve PEEK material, pressure 5000 psi; Independent automatic collecting and flow function. Built in Eluent Generator Eluent Types KOH/MSA Eluent Concentration Range 0.1-120 mM Concentration Increment 0.1 mM Flow Rate Range 0.1-5.0 mL/min Maximum Pressure 20 Mpa Minimum Pressure 5 Mpa Suppressor Type Self-Regenerating electrolytic micro-membrane suppressor Maximum Pressure 5 Mpa	Internal Volume	30 μL
Six-way ValvePEEK material, pressure 5000 psi; Independent automatic collecting and flow function.Built in Eluent GeneratorKOH/MSAEluent TypesKOH/MSAEluent Concentration Range0.1-120 mMConcentration Increment0.1 mMFlow Rate Range0.1-5.0 mL/minMaximum Pressure20 MpaSuppressor5 MpaTypeSelf-Regenerating electrolytic micro-membrane suppressorMaximum Pressure6.0 MpaDead Volume<50 μL	Degassing Efficiency	10 mL/min 90%
SIX-Way Valve flow function. Built in Eluent Generator Eluent Types KOH/MSA Eluent Concentration Range 0.1-120 mM Concentration Increment 0.1 mM Flow Rate Range 0.1-5.0 mL/min Maximum Pressure 20 Mpa Minimum Pressure 5 Mpa Suppressor Type Self-Regenerating electrolytic micro-membrane suppressor Maximum Pressure 6.0 Mpa Dead Volume < 50 μL Other Specifications Dimension (LxWxH) 500x500x760 mm Net Weight 48 kg	Flow System	
Eluent TypesKOH/MSAEluent Concentration Range0.1-120 mMConcentration Increment0.1 mMFlow Rate Range0.1-5.0 mL/minMaximum Pressure20 MpaMinimum Pressure5 MpaSuppressor5 MpaTypeSelf-Regenerating electrolytic micro-membrane suppressorMaximum Pressure6.0 MpaDead Volume<50 μL	Six-way Valve	
Eluent Concentration Range 0.1-120 mM Concentration Increment 0.1 mM Flow Rate Range 0.1-5.0 mL/min Maximum Pressure 20 Mpa Minimum Pressure 5 Mpa Suppressor Type Self-Regenerating electrolytic micro-membrane suppressor Maximum Pressure 6.0 Mpa Dead Volume < 50 μL Other Specifications Dimension (LxWxH) 500x500x760 mm Net Weight 48 kg	Built in Eluent Generator	
Concentration Increment0.1 mMFlow Rate Range0.1-5.0 mL/minMaximum Pressure20 MpaMinimum Pressure5 MpaSuppressor5TypeSelf-Regenerating electrolytic micro-membrane suppressorMaximum Pressure6.0 MpaDead Volume<50 μL	Eluent Types	KOH/MSA
Flow Rate Range 0.1-5.0 mL/min Maximum Pressure 20 Mpa Minimum Pressure 5 Mpa Suppressor Type Self-Regenerating electrolytic micro-membrane suppressor Maximum Pressure 6.0 Mpa Dead Volume <50 μL Other Specifications Dimension (LxWxH) 500x500x760 mm Net Weight 48 kg	Eluent Concentration Range	0.1-120 mM
Maximum Pressure20 MpaMinimum Pressure5 MpaSuppressorSelf-Regenerating electrolytic micro-membrane suppressorMaximum Pressure6.0 MpaDead Volume<50 μL	Concentration Increment	0.1 mM
Minimum Pressure5 MpaSuppressorTypeSelf-Regenerating electrolytic micro-membrane suppressorMaximum Pressure6.0 MpaDead Volume<50 μL	Flow Rate Range	0.1-5.0 mL/min
SuppressorSelf-Regenerating electrolytic micro-membrane suppressorMaximum Pressure6.0 MpaDead Volume<50 μL	Maximum Pressure	20 Mpa
Type Self-Regenerating electrolytic micro-membrane suppressor Maximum Pressure 6.0 Mpa Dead Volume <50 μL Other Specifications Dimension (LxWxH) 500x500x760 mm Net Weight 48 kg	Minimum Pressure	5 Mpa
Maximum Pressure6.0 MpaDead Volume<50 μL	Suppressor	
Dead Volume < 50 μL Other Specifications Dimension (LxWxH) 500x500x760 mm Net Weight 48 kg	Type	Self-Regenerating electrolytic micro-membrane suppressor
Other Specifications Dimension (LxWxH) Net Weight Dimension (LxWxH) S00x500x760 mm 48 kg	Maximum Pressure	6.0 Mpa
Dimension (LxWxH) 500x500x760 mm Net Weight 48 kg	Dead Volume	<50 μL
Net Weight 48 kg	Other Specifications	
	Dimension (LxWxH)	500x500x760 mm
Gross Weight 73 kg	Net Weight	48 kg
	Gross Weight	73 kg
Power 350 W	Power	350 W



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