SCION INSTRUMENTS

LC 6000

HIGH PERFORMANCE LIQUID CHROMATOGRAPH

SCION Instruments brings Performance, Functionality and Reliability together into its impressive 6000 Series HPLC product line up, making it the chromatographer's choice in HPLC.

Outstanding Performance for Confident Results

THE SCION 6000 SERIES HPLC AIMS FOR CONFIDENCE IN RESULTS THROUGH OUTSTANDING LIFE-TIME PERFORMANCE.

A robust design maximises uptime and productivity levels whilst minimises cost of operation.

The SCION 6000 Series offers an array of automation options for workflow optimisation, making our lab experience the best and easiest possible.

Key Values

Superior gradient performance and excellent flow rate precision

The SCION 6100 Quaternary pump has a new low-pressure mode called High Frequent Mode (HFM), which utilises a double switching function of proportioning valves. HFM with the high-speed real-time feedback control system greatly suppresses liquid pulsation for superior reproducibility of gradient and retention times.

Excellent injection volume precision and ultra-low carry-over

The newly adopted high-precision syringe drive unit provides excellent injection volume precision. Dead volume in the SCION 6210 Autosampler flow path has been minimised. Together with a pumping method that washes the needle outer wall, this has resulted in a superior precision autosampler with extremely low carry-over. A thermostat option is available to maintain sample temperature between ambient -21˚C and ambient +25˚C, to prevent crystallisation of sample components in the vial, thus ensuring sample integrity.

Best Chromatography

The SCION 6310/6320 Column Oven delivers accurate Peltier-based heating cooling profiles, delivering sharp peaks with excellent peak symmetry. The column oven accommodates three 300 mm ID-tagged analytical columns fitted with a guard-column.

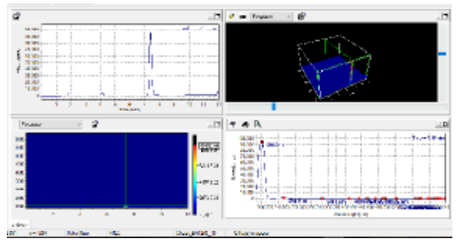
Excellent Detector Performance

The 6000 Series HPLC line-up comes with a portfolio of detectors including UV and DAD, all designed for stability, precision and sensitivity.

Reliability & Efficiency in one solution

Instrument robustness

SCION 6000 Series HPLC is made for robustness and best return on investment (ROI). Covers are made of heat-resistant, chemical-tolerant, and UV irradiation-withstanding materials. The internal walls of the modules are made with corrosion resistant material to cope with humidity and vaporisation of solvents. The column oven incorporates a solvent leak sensor and a gas sensor to spot leaks. A door lock mechanism and auto power-off/function-on lamp replacement further add to robustness.

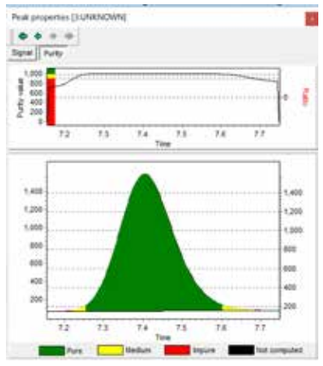


Compass CDS Control

The SCION 6000 Series HPLC offers complete support through CompassCDS, adding full instrument control & automation, a complete suite of integration, calibration and reporting tools, and allowing for full 21CFR11 compliance.

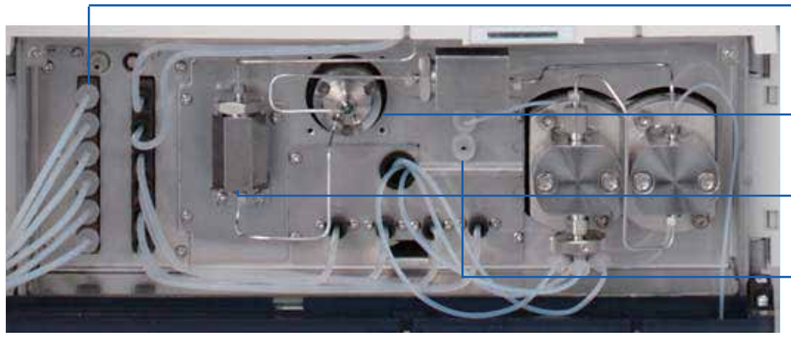
Low volume Degassing options

To avoid any salt precipitation from the mobile phase, the SCION 6000 Series HPLC includes an auto plunger washing mechanism that prevents damage to the pump seal or the plunger. The low-volume degassing unit reduces solvent purging time and reduces the amount of solvent used.



Extra Large Solvent cabinet

The SCION 6510 Organiser is designed for multiple-liquid operation and can hold different bottle sizes to accommodate these typical applications.



- Six-channel degassing unit (480 µL/ch) (optional)
- Auto-purge valve (Pumps with or without Auto-purge valve are available)
- Conventional mixer (Accessory of the low-pressure gradient unit option)
- Plunger washing pump (optional)

SCION 6000 Series HPLC Configuration Modules

6510 ORGANISER (SOLVENT CABINET)

6100 QUATERNARY PUMP

6210 AUTOSAMPLER
6220 AUTOSAMPLER WITH COOLING UNIT

6310 COLUMN OVEN
6320 COLUMN OVEN (WITH PELTIER)

6430 DIODE ARRAY DETECTOR
6410 ULTRAVIOLET DETECTOR

LC6000

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LC 6000

SCION INSTRUMENTS

Specification sheet

SCION 6100 PUMP

Dimensions and weights

Height:	140 mm (5.5 in.)
Width:	340 mm (13.4 in.)
Depth:	440 mm (17.3 in.)
Weight*:	16 kg (35.3 lb)
Power Supply:	24VDC, 4.0A (max)
Power Consumption:	96W

Solvent Delivery System

Dual plunger reciprocating pump system

Wetted Part Material:	Stainless steel 316, ruby, sapphire, zirconia, PTFE, Carbon PTFE, PEEK, Vespel®
Solvent Compression Calibration:	Real time feedback
Pressure:	60 MPa (0.001 - 2.500 mL/min) 30 MPa (2.500 - 5.000 mL/min)
Settable Pressure Limiter Range:	0.0 - 60.0 MPa
Settable Flow Range:	0.001 - 5.000 mL/min
Recommended Flow Range:	0.010 - 2.500 mL/min

Data

Flow Rate Accuracy:	Measured under constant ambient temperature of 20 °C, distilled water, solvent delivery pressure 30MPa ±2 µL (0.010 - 0.100 mL/min) ±1 % (0.101 - 2.500 mL/min)
Flow Rate Precision:	RSD <0.05%
Pressure Indication Accuracy:	±5 %

Instrument Status

LED Status:	See Table 1
Chemical compatability (limited solvent):	See Table 2

Table 1: LED State for Degassing Unit

No.	LED Status	Vacuum Pump State
1.	Orange – Blinking	Power On – Running
2.	Green – Blinking	Vacuum degree reached the upper limit of the control range
3.	Green – Solid	Vacuum degree reached a setting control point
4.	Orange – Solid	Error – vacuum pump has stopped

Note: Solvents described in Table 2 may pass through the degassing unit, it has some restrictions. In particular, HFIP, hydrofluoric solvents, perfluorinated solvents and freons cannot be used. (Hexane can be used with the 6-channel degassing unit).

Table 2: Mobile phase compatability

No.	Solvent	Remarks
1.	Acid	High concentration >1mol/L – corrodes chamber
2.	Alkali	High concentration >1mol/L – corrodes chamber
3.	Salts	Salts and a high buffer solution require a wash with distilled water to reduce salt deposition as it may cause damage to the instrument
4.	Buffer Solution	Salts and a high buffer solution require a wash with distilled water to reduce salt deposition as it may cause damage to the instrument

Communication

Communication: Serial RS-422

External I/O:

i) RS-422
- (a) BUSY OUT
- (b) ERROR IN/OUT
- (c) GRADIENT START IN

ii) Terminals on rear side:
- (a) EVENT1 - 4 (Limit out)
- (b) PUMP ON IN
- (c) PUMP OFF IN
- (d) PRESS OUT

Options

Low Pressure Gradient Unit

Mixture:	Quaternary Pump; four solvents
System:	Solenoid valve control
Gradient:	Linear, stepwise
Gradient Precision:	<0.15%
Settable Mixing Ratio:	0-100% (1% step)
Composition Accuracy:	±5%
Recommended Flow Range:	0.04-1.8mL/min <0.4mL/min with semi micro mixer
Number of Stored Programmes:	9
Maximum Program Time:	600mins
Programmable Items:	a) Time b) Flow Rate c) Composition Rate d) Event Timer Output e) Stopping of Solvent Delivery f) Buzzer

Six-Channel Degassing Unit

Flow Path:	6 (Pump: 4 flow paths; Autosampler: 2 flow paths)
Max Flow Rate:	5.0 mL/min
Recommended Flow Rate:	<3.0 mL/min

Chamber Volume (480 µL, inlet tube not included)

Max Pressure:	0.2 MPa* Flow path in a degassing unit should always maintain constant negative pressure.
Wetted Part Material:	Teflon® AF, PEEK, FEP, PPS (glass included).

Instrument Status

Degasser pressure sensor error

Auto Purge Valve Unit

Optional valve for purging automatically

Max pressure:	60MPa
Settable Flow Range:	0.500-5.0mL/min
Settable Time:	1-30 min
Wetted Materials:	Stainless Steel Stator and Steel Rotor Seal*

*Vespel® is used in the auto purge valve. Avoid using strong acids or bases, as these may cause corrosion.

Plunger Wash Pump

Flow Rate:	1mL/min
Delivering Solvent:	Distilled water only
Max Pressure:	65kPa

Dynamic Mixer

Max Pressure:	40kPa
Mixer Volume:	2000µL
Mixing Method:	Stirring Bar
Recommended Flow Rate:	<2.0mL/min

Conventional Mixer

Max Pressure:	60 MPa
Mixer Volume:	700 µL
Recommended Flow Rate:	0.4 - 1.8 mL/min

Semi Micro Mixer

Max Pressure:	60 MPa
Mixer Volume:	200 µL
Recommended Flow Rate:	< 0.4 mL/min

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LC 6000

SCION INSTRUMENTS

Specification sheet

SCION 6210/6220 Autosampler

MAIN UNIT

Dimensions & Weights

Dimensions:	340W x 520D x 320H (mm)
Weight :	23kg/ 26kg (with thermo unit)
Power Supply:	24V DC, 2.1A
External Communication:	RS-422

Direct Injection

Number of Standard Sample:

- 200 (1.5mL vials)
- 128 (4mL vials optional)
- 288 (96-well microplate optional)
- 1152 (384-well microplate optional)

*Conditions settable depending on vial/rack

Syringe Volume:

- 100 µL (standard)
- 500 µL, 1 mL, 2.5 mL (optional)

*Syringe speed settable

Injection Volume:

- 0.1 - 50 µl (100 µl syringe)
- 5 - 2250 µl (optional syringes)

Mechanism:

- X Direction; sample rack movement
- Y/Z Direction; needle movement

Maximum number of injections per sample:	99
Maximum cycle time:	999.9 mins

Temperature and Humidity

4°C to 35°C (non-condensing)

25 to 85%

Data

Reproducibility of injection volume:	<0.3% RSD (10µL injection)
Linearity of injection volume:	R^2 0.999
Accuracy of injection volume:	±0.8% (50µL n=10)
Carryover:	<0.003% RSD (10µL of blank after 10µL of 60mg/100mL methylparaben)
Withstand pressure:	60MPa
Wetted Part Material:	SUS316, PEEK, fluororesin, EPDM, Vespel®, UHMWPE

THERMO UNIT (optional - 6220 Autosampler with Cooling Unit)

Thermo unit is a Peltier cooling system to cool the sample. It is excellent in operability because it does not use water as a coolant.

Temperature Setting Range:	1 to 35 °C
Cooling Power:	From 4°C to 5° below ambient temperature (between 15-25° ambient temperature)
Temperature Range:	15 to 25 °C and humidity of 60 %
Ambient Humidity:	25 to 85%
Power Supply:	100 to 240 V AC ± 10% (50/60 Hz), 110 VA

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LC 6000

SCION INSTRUMENTS

Specification sheet

SCION 6310/6320 Column Oven

Dimensions and Weights

Dimensions: 490.5W x 360D x 174H (mm)

Weight : 13 kg

Power Supply: AC100 to 240 V (50/60 Hz)
(230 VA when optional switching valve is loaded)

Temperature

Control System:	6310: Air circulating system 6320: Peltier heating/cooling system
Setting Range:	1°C to 85°C (0.1°C step)
Accuracy:	±0.5°C
Stability:	±0.1°C
Safety Feature:	Thermal protector (105°C) – Overheat prevention mechanism
Operating temperature range:	4°C to 35°C

Column Storage Capacity

300 mm x 3 (maximum) with guard column

Liquid Leak Sensor

System will alarm if a leak is detected

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SCION INSTRUMENTS

Specification sheet

SCION 6510 Organiser (Solvent Cabinet)

Dimensions & Weights

Dimensions: 340W x 420D x 200H (mm)

Weight : 9 kg

Output Power

One pump

One autosampler

Two detectors (UV, UV-Vis, Diode Array or RI)

One interface control board

Power Supply/ Consumption: AC 100 V to 240 V (50/60 Hz), 520 VA

Bottle Capacity

Extra-large solvent cabinet

6 x 1 L bottles and 3 x 500 mL bottle

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LC 6000

SCION INSTRUMENTS

Specification sheet

SCION 6410 UV Detector

Dimensions & Weights

Dimensions:	490W x 360D x 174H (mm)
Weight :	14 kg
Power Supply:	DC 24 V, 2.5 A (max)/ 60 W
Communication:	Controller Area Network (CAN)

Optical System

Double Beam

Light Source:	D2 Lamp, Hg lamp for checking wavelength
Wavelength Range:	190nm to 600nm
Spectrum Bandwidth:	8nm
Wavelength Accuracy:	±2nm
Acquisition Rate:	0.5, 1, 10, 20Hz

Parameters

Temperature Range:	4°C to 35°C (no condensation)
Humidity Range:	25% to 85% (no condensation)
Noise Level:	<1 x 10-5
Drift:	<2.5 x10-5
Autozero range:	0.2 to 2 AU
Offset:	0 to 2 AU, 0.001 step
Flow Cell Capacity:	14µL
Flow Cell Pressure Resistance:	14.7MPa (without inlet/outlet tube)
Time Programme:	Maximum 600 min in steps of 0.1 m Maximum number of steps: 50

Programmable Measurements

Wavelength measurements

Baseline Process (only for single wavelength measurements)

Leak Sensor

For the detection of leaks

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LC 6000

SCION INSTRUMENTS

Specification sheet

SCION 6430 Diode Array Detector

Dimensions & Weights

Dimensions:	340W x 440D x 140H (mm)
Weight :	14 kg
Power Supply/Consumption:	DC 24 V, 3.5 A (max)/ 84 W

Optical System

Single beam ratio photometry (dispersion by diffraction grating)

Light Source:	D2 Lamp, W Lamp, Hg Lamp for checking wavelength
Wavelength Range:	190 nm to 900 nm (D2 & W mode) 190 nm to 400 nm (D2 mode) 401 nm to 900 nm (W mode)
Wavelength Accuracy:	±1nm
Slit Width:	Fine 1 nm, Coarse 4 nm
Response:	0.01, 0.02, 0.05, 0.1, 0.5, 1.0, 2.0secs (in steps of 7)

Parameters

Temperature Range:	4 °C to 35 °C (no condensation)
Humidity Range:	25 % to 85 % (no condensation)

Thermo Cell Temperature Control (optional): 40 °C, Range 4 °C to 30°C

Noise Level:	<0.5 x 10-5 AU
Autozero range:	0.2 to 2 AU
Offset:	0 to 2 AU, 0.001 step
Flow Cell:	Quartz glass, SUS, Fluorocarbon resin
Flow Cell Capacity:	13 µL
Flow Cell Pressure Resistance:	14.7 MPa (without inlet/outlet tube)

External Input/Output Terminal

Start in, Error in/out, busy out (contact points on RS-422)

Optional

Processor output (1 V full scale)

Recorder output (10 mV full scale)

Enabled only for the single-wavelength measurement (0.25, 0.5, 1, 2 AU are output as 1V)

Communication

RS-422 (Installation condition, Instrument status)

USB 2.0 (Acquisition Data)

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SPECIFICATION **LC 6000**

SCION 6440 FLUORESCENCE DETECTOR

Physical Specification

Specification	Value
Dimensions（L × W × H）	440×340×280 （mm）
Weight	25kg
Power	AC 100 to 240 V (50/60 Hz) / 330VA
Communication	E-line (RS242）、USB 2.0

Specification Sheet

Specification	Value
Source	Xe lamp, Hg lamp（Wavelength calibration）
Exitation wavelength range	200~850 nm
Emission wavalength range	250~900 nm
Excitation spectral bandwidth	15nm
Emission spectral bandwidth	15 nm, 30 nm (Selectable)
Wavelength accuracy	＜±3nm
Wavelength reproducibility	±0.5nm
Response	0.01、0.02、0.05、0.1、0.5、1.0、2.0 s（7 steps selectable）
Sensitivity	S/N > 3000 versus a Raman peak of water (Specified conditions)
Flow cell	12μL，1.0 Mpa
Flow cell temperature control range	40°C (Thermo cell only, optional, Operation temperature 4~30°C)
Time program	9 steps，Up to 600 minutes by increments of 0.1 minuteHg lamp
Wavelength accuracy check	Hg lamp (254nm)，Auto check

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SPECIFICATION **LC 6000**

SCION 6460 REFRACTIVE INDEX DETECTOR

Flow cell type	**2 chamber-type**
Measuring method	Deflection type
Refractive Index range	1.00 to 1.75
Measuring range	0.25 to 512 micro-RIU
Drift	0.2micro-RIU/h (Pure water 1mL/min, PURGE OFF)
Linearity range	≥600micro-RIU
Noise	≤2.5nRIU (Pure water, response : 1.5sec)
Response	0.1 , 0.25 , 0.5 , 1 , 1.5 , 2 , 3 , 6 sec
Auto zero	Full auto zero
Auto zero range	All range
Off-set range	10micro-RIU
Off-set response	50nRIU
Integrator output (Sensitivity)	DC 0 to 1V (2mV/micro-RIU, 8mV/micro-RIU)
Cell volume	8micro-L
Flow rate (Usual)	0.2 to 3.0mL/min
(Max.)	10mL/min (solvent: pure water)
Max. back pressure	50kPa
Internal volume	IN to Cell: ca. 60micro-L Cell to OUT: ca. 600micro-L All(Cell to OUT: ca.670micro-L
Recorder output	0 to 10mV/FS
External input	-
External output	(1) READY (temperature control) (2) LEAK (3) ERROR (ROM, RAM, PARAMETER, HOME POSITION, OVER-HEAT, OPTI.-BALANCE, INTENSITY)
Temp. control	OFF, 30 to 55deg-C (1deg-C step), 77deg-C Temp. fuse
Communication port	USB
Operational support functions	None
Wetted materials	Stainless steel 316, Teflon, Quartz glass
Power source, Power consumption	AC 100 to 240V±10%, 50/60Hz, 150VA max.
Accessories	Power cable, single code, connector tube, fuse, operation manual

SCION INSTRUMENTS

PRODUCT FAQ's

LC6000

HIGH PRESSURE LIQUID CHROMATOGRAPH

SCION LC6000 Frequently Asked Questions

Is the LC6000 a Hitachi LC?

Close but not quite. The 6000 Series HPLC is based off Hitachi's system, but some of the modules are Scion modified or even Scion designed & manufactured.

Do you plan to have other detectors in the future?

Yes, we do. For now, its Diode-Array and UV, but it is our intention to have a full portfolio of HPLC detectors with the 6000 Series HPLC as soon as possible. This likely includes Fluorescence, RI, ELSD and UV-VIS detectors. Release dates, technical specifications and pricing will be communicated in due time, so keep an eye out for these new product release announcements.

How to quote/order? What parts do I need?

Please refer to the LC Sales PPT.

What parts are mandatory to quote?

You will always need the Organiser with Integrated Interconnect board (LC20200000). Degasser and low-pressure gradient options are mandatory with pump.

Are communication cables included with the modules?

Yes, all modules have cables included. There is normally no need to separately quote com cables.

Can the LC6000 connect to a MS?

No, at this stage, the 6000 Series HPLC cannot be sold with MS.

Where can I find pricing for LC 6000 Series HPLC?

Price lists have been released. Contact Sales Support if needed

Are Isocratic/Binary Pump versions available?

We currently offer the 6100 Quaternary Pump only. With its robust design and competitive positioning, it can be offered in situations where binary/isocratic methods are applicable.

Will Scion develop new applications, and if so, I what market segments?

Yes, absolutely! Current application notes are available in the channel partner Portal and the Application library on our Website. More applications will be developed for the 6000 Series HPLC, adopting a wide market scope, so these will include Environmental, Petrochemical, Pharmaceutical, Toxicology, Food/Beverage and Chemical market applications. If you have a need for a special application, please let us know!

Is the LC6000 compatible to Empower, or OpenLab?

No. The 6000 Series HPLC will need to be controlled by CompassCDS. Drivers for CompassCDS will be included with CompassCDS media.

What is the data rate for the 6410 UV Detector?

Acquisition Rate: 0.5, 1, 10, 20 Hz

What is the data rate for the 6430 DAD?

Acquisition Rate: Selectable from 0.5-100 Hz

Do the detectors come with everything needed to get started on a conventional LC including the flow cell?

The conventional flow cell is included. All detectors will come with necessary items to make sure it can run properly.

What is the cell volume (default) for the 6430 DAD?

The 6430 cell is a Quartz glass, SUS, Fluorocarbon resin, Optical length 10 mm, with Cell Capacity 13 µL

When ordering the pump (with degasser, low pressure gradient unit, does it come with the "standard" mixer or do we add a mixer of the type desired?

Conventional mixer LC20200021 is included in the low-pressure gradient unit. For the mixer of other type, we need to add relevant P/N

Can we use manual injector instead of an autosampler? Will the interface control board allow us to communicate start/stop on injection to the pump to start the rest of the system (and Compass)?

Yes, it is possible to use a manual injector. We have a Rheodyne 7725i manual injector on our Price List, ideal for small series of samples and/or method development or system testing. It has a 20 µl sample loop installed, but other sizes are available. The 7725i includes a start/stop communication.

Do we have any column switching options?

We don't have column switching options at this stage. However, for simple column switching between two columns, it is possible to put a 6-port valve (electrically actuated) in the column oven. Post-column derivatization options may be added to portfolio at a later stage.

Can we offer products in Pharmaceutical markets?

Yes. CompassCDS is fully 21 CFR 11 Compliant. IQ/OQ and PQ is not yet available, but in development.

Do we have technical product specifications?

Yes. Specification sheets for each individual module can be found on the Channel Partner Portal.

Is there a list of HPLC columns we can offer with the 6000 Series HPLC?

A comprehensive list of available HPLC columns from SCION is available.
There are both silica, and polymer based with different functional grouping and dimensions, in order to cover as many applications as possible.

Is the LC6000 ethernet ready?

Yes. The instrument can be controlled remotely through CompassCDS.

Do we have a calendar for service training?

We will provide service training for then 6000 Series HPLC. A training schedule will be announced once date/locations have been set.

What is maximum pressure rating for Pump?

Max pressure now is 600 Bars, 60.0 MPa (0.001 – 2.500 mL/min)

Does the 6000 come with a Graphical Local User Interface?

No, the 6000 Series HPLC needs to be driven from CompassCDS and does not have a GUI.

Is the Purge Valve automatic or manual?

We offer Manual Purge Valve only.

What injection volume / loop size is in the autosampler?

It's a variable direct injection using Syringe. Syringe Volumes is 100 µL (standard). 500 µL, 1 mL, 2.5 mL Syringes are optional.

Do we have a different degasser for Manual injection Valve?

Yes! A new 4-channel degasser is available for Manual injections (P/N LC2020003M). The 6-channel degasser is for autosampler injections.