ExionLC™ AC Series

Specifications

The SCIEX ExionLC AC System is designed as a high performance, modular workhorse system. The higher pressure rating of 660 bar provides you access to basic UHPLC chromatography coupled with excellent reliability and low carryover.

ExionLC Controller

ITEM	SPECIFICATION
ENVIRONMENTAL	
Working temperature	4°C to 35°C (indoor installation only)
Relative humidity	20-85%
Dimensions (w x h x d)	260 x 140 x 420 mm
Weight	5.5 kg
ELECTRICAL	
Power supply voltage	AC100 V to 240 V
Power consumption	Less than 400 VA
Rated breaking capacity	40A
Power supply frequency	50/60 Hz
COMMUNICATIONS	
External start input (MAN.INJ.)	1
Error input (IN)	3
General purpose output (OUT)	4
Remote connector	8
Ethernet	1
Optical link (PAC)	1
RS-232C	1
AC remote	1
AC output	2
Interface	SCIEX OS Software 1.x, Analyst® Software 1.7

ExionLC Degasser

ITEM	SPECIFICATION
Type	Membrane based on-line degasser, 5 lines
Volume	Volume approximately 400µL per line

ExionLC™ AC Pump

ITEM		SPECIFICATION
Pump type		Micro volume double plunger pump (approx.. 10 µL/stroke)
Pumping methods		Constant flow delivery and constant pressure delivery
Constant flow pumping	Flow rate Setting range	0.0001 to 3 mL/min (10-660 bar) 3.0001 to 5 mL/min (10-440 bar)
	Flow rate accuracy	±1% or ±2 µL min, whichever is greater (0.01 to 3 mL/min, 10-400 bar) ±2% or ±2 µL min, whichever is greater (0.01 to 3 mL/min, 400-600 bar)
	Flow rate precision	RSD <0.06% or 0.02 min. SD, whichever is larger
Constant pressure pumping	Pressure setting range	10-600 bar (1 bar steps)
	Pressure accuracy	±10% or 15 bar, whichever is greater
High pressure gradient system	# of solvents mixed	2
	Gradient types	Isocratic, binary, ternary
	Gradient profile	Step and linear gradient at multiple levels
	Maximum # of steps	400
	Mix ratio setting range	0-100% (in 0.1% steps)
	Concentration (composition) accuracy	±0.5% (at 0.5-3 mL/min)
	Flow rates possible	0.0001 to 5 mL/min
	Solvent selection (per pump)	2 with optional solvent selection valve, 4 with optional LPGE unit
Low pressure gradient system	# of solvents mixed	Max. 4 with optional LPGE unit
Pressure limit functions		Upper and lower limits
Liquid contacting part materials		SUS316 L, PEEK, ruby, sapphire, Hastelloy C, polyethylene
Suction filter		10 µm
Line filter		5 µm mesh, capacity 70 µL
Pressure display accuracy		Less than ±2% or ±10 bar, whichever is greater
Plunger rinsing		Automatic piston rinsing function
Leak sensor		Detects leakage from pump
ENVIRONMENTAL		
Working temperature		4°C to 35°C
Relative humidity		20-85%
Dimensions (w x h x d)		260 x 140 x 420 mm
Weight		10 kg
ELECTRICAL		
Power supply voltage		AC100 V to 240 V
Power consumption		150 VA
Rated breaking capacity		50A
Power supply frequency		50/60 Hz

ExionLC™ AC Autosampler

ITEM	SPECIFICATION
Injection method	Variable injection volume flow through design (no sample loss during injection)
Injection volume setting range	0.1 to 50 µL (0.1 to 0.9 µL in 0.1 µL increments, 1 to 50 µL in 1 µL increments)
Samples for processing	• With 1.5 mL vials: 105 • With 96-well microtiter plate: 192 • With 384-well microtiter plate: 768
Injection volume precision	RSD ≤ 0.3% (at 10 µL injection)
Injection volume accuracy	±1% (50 µL, n = 10) max
Carryover	0.005% max (under specified conditions)
Sample aspiration rate	0.1 to 15 µL/sec (0.1 µL/sec increments)
Rinse aspiration rate	Variable (1 to 35 µL/sec, 1 µL/increments)
Rinse solutions	1 solution type, up to 2 with optional rinse pump
Maximum allowable pressure	660 bar
Injection cycle time	14 seconds minimum (under specified conditions)
Sample cooling system	Direct cooling system (environment conditions: room temperature below 30°C or lower and humidity 70% or less with cooler set to 4°C), dehumidification function included
Cooling range settings	4 to 40°C (under specified conditions)
Temperature accuracy	±3°C (±6°C for microtiter plates and deep-well plates. Not cooled below 1°C)
Liquid contacting part materials	SUS316 L, SUS316, PEEK, ceramic, sapphire, PTFE, ETFE, FEP, GFP
pH range	1-14 standard
Needle stroke	10 to 54 mm (adjustment range dependent on rack type)
Leak sensor	Automatic leak detection
ENVIRONMENTAL	
Working temperature	4°C to 35°C
Relative humidity	20-85%
Dimensions (w x h x d)	260 x 415 x 500 mm
Weight	30 kg
ELECTRICAL	
Power supply voltage	AC100 V to 240 V
Power consumption	300 VA
Rated breaking capacity	63A
Power supply frequency	50/60 Hz

ExionLC™ AC Column Oven

ITEM	SPECIFICATION
Heating and cooling method	Fan forced air circulation
Temperature control range	Room temperature - 10°C to 85°C
Temperature setting range	4°C to 85°C (in steps of 1°C)
Temperature control precision	±0.1°C (at 25°C)
Column capacity	6 columns at 30 cm max.
ENVIRONMENTAL	
Working temperature	4°C to 35°C
Relative humidity	20-85%
Dimensions (w x h x d)	260 x 415 x 420 mm
Weight	23 kg
ELECTRICAL	
Power supply voltage	AC100 V to 240 V
Power consumption	600 VA
Rated breaking capacity	50A
Power supply frequency	50/60 Hz
SAFETY	
Safety measures	• Upper temperature limit can be set to prevent overheating • Equipped with thermal fuses to prevent overheating damage • Equipped with leak sensor for detecting mobile phase leaks

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