



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 AC Controller Specifications

ITEM	SPECIFICATION
ENVIRONMENTAL	
Working temperature	4°C to 35°C (indoor installation only)
Relative humidity	20% to 85%
Altitude	2000 m or lower
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
CONNECTORS	
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	Analyst 1.6.2 software
SAFETY	
Safety and EMC compatibility	ICES-001 Class B CE (EN61010-1, EN61326-1, EN55011 Class B) FCC Pt 15 Class B CAN/CSA-C22.2 No. 61010-01 UL std. No. 61010-1
Installation category	II
Pollution degree	2

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	0.0001 to 3 mL/min (10-660 bar)
	Setting range	3.0001 to 5 mL/min (10-440 bar)
	Flow rate accuracy	±1% or ±2 µL, whichever is greater (0.01 to 3 mL/min) ±2% or ±2 µL, whichever is greater (0.01 to 3 mL/min)
	Flow rate precision	±0.06%RSD 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	Number of solvents mixed	2
	Gradient profile	Step and linear gradient at multiple levels
	Maximum number of steps	320
	Mix ratio setting range	0-100% (in 0.1% steps)
	Concentration accuracy	±0.5% (at 0.5-3 mL/min)
	Flow rates possible	0.0001 to 5 mL/min
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
SAFETY		
Safety and EMC compatibility		ICES-001 Class B CE (EN61010-1, EN61326-1, EN55011 Class B) FCC Pt 15 Class B CAN/CSA-C22.2 No. 61010-01 UL std. No. 61010-1
Installation category		II
Pollution degree		2

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	<ul style="list-style-type: none">• 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)
Maximum allowable pressure	660 bar
Injection cycle time	14 seconds minimum (under specified conditions)
Sample cooling	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
pH range	1-14 standard
Liquid contacting part materials	SUS316 L, SUS316, PEEK, ceramic, sapphire, PTFE, ETFE, FEP, GFP
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	AC 100 V to 240 V
Power consumption	300 VA
Rated breaking capacity	63A
Power supply frequency	50/60 Hz
SAFETY	
Safety and EMC compatibility	ICES-001 Class B CE (EN61010-1, EN61326-1, EN55011 Class B) FCC Pt 15 Class B CAN/CSA-C22.2 No. 61010-01 UL std. No. 61010-1
Installation category	II

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
Ambient temperature range	4°C to 35°C
Column capacity	6 pcs at 30 cm max.
ENVIRONMENTAL	
Working temperature	4°C to 35°C
Relative humidity	20-85%
Dimensions (w x h x d)	260 x 420 x 415 mm
Weight	20 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 and EMC compatibility	ICES-001 Class B CE (EN61010-1, EN61326-1, EN55011 Class B) FCC Pt 15 Class B CAN/CSA-C22.2 No. 61010-01 UL std. No. 61010-1
Installation Environment	Installation Category II Pollution Degree II Altitude 2000 m or lower Indoor Installation
Safety measures	<ul style="list-style-type: none">• 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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