



ExionLC™ AD Series

Specifications

The SCIEX ExionLC AD System offers you expandability and robustness for the most challenging method development and sample analysis applications. With a maximum pressure rating of 1300 bar and an autosampler with up to 3 different wash solvents, the ExionLC AD system has exceptional chromatographic resolution with virtually undetectable carryover.

ExionLC AD Controller

ITEM	SPECIFICATION
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 AD 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 (10-1300 bar) 3.0001 to 5 mL/min (10-660 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	10-1300 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

ExionLC™ AD Pump (continued)

ITEM	SPECIFICATION	
High pressure gradient system (continued)	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	

ExionLC AD 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 ≤ 0.25% (at 5 µL injection)	
Injection volume accuracy	±1% (50 µL, n = 10) max	
Carryover	0.0015% 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, (0.1 µL/sec increments)	
Maximum allowable pressure	1300 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, ceramic, sapphire, PTFE, ETFE, FEP, GFP, PEEK, polyimide	
pH range	1-9 standard, 1 to 14 optional	
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	33 kg	
ELECTRICAL		
Power supply voltage	AC100 V to 240 V	
Power consumption	300 VA	
Rated breaking capacity	63A	
Power supply frequency	50/60 Hz	
SAFETY		
Installation environment	Installation category II Pollution degree II	

ExionLC™ AD Autosampler (continued)

ITEM	SPECIFICATION
SAFETY (continued)	
Installation environment	Altitude 2000 m or lower Indoor installation 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

ExionLC AD Column Oven

ITEM	SPECIFICATION
Heating method	Block heating system
Temperature control range	(Room temperature +5°C) to 150°C
Temperature setting range	4°C to 150°C (in steps of 1°C)
Temperature control precision	±0.05°C
Ambient temperature range	4°C to 35°C
Column capacity	2 pcs at 15 cm max.
ENVIRONMENTAL	
Working temperature	4°C to 35°C
Relative humidity	20-85%
Dimensions (w x h x d)	260 x 210 x 500 mm
Weight	10 kg
ELECTRICAL	
Power supply voltage	AC100 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 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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