



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 400 µL 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 | 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 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 | <ul style="list-style-type: none">• With 1.5-2 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 | <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 |

For Research Use Only. Not for use in Diagnostic Procedures.

© 2019 DH Tech. Dev. Pte. Ltd. Trademarks and/or registered trademarks mentioned herein are the property of AB Sciex Pte. Ltd., or their respective owners, in the United States and/or certain other countries. AB SCIEX™ is being used under license.

RUO-MKT-04-2119-B 9/2019



Headquarters
500 Old Connecticut Path, Framingham, MA 01701, USA
Phone 508-383-7800
sciex.com

International Sales
For our office locations please call the division
headquarters or refer to our website at
sciex.com/offices