
LS-I Specification

High Throughput Open Deck Autosampler



System

- Ten Plate Locations
- Support for 54, 96 and 384 well plate formats
- 15 Seconds/Injection Trap and Elute Acquisition
- 30 Seconds/Injection Dual Gradient Acquisition
- Flow Injection for Compound Optimization
- Support for Sciex 3500, 4000, 4500, 5000, 5500, 5500+, 6500, 6500+ TripleQuad/QTrap Instruments
- Support for Sciex 4600, 5600, 5600+, 6600 TripleTOF Instruments
- LeadScape™ Software provides full workflow automation

Hardware

- Tecan Cavo® OMNI XYZ Stage
- Two Tecan Cavo® 6000 XLP Pumps for integrated system and rinse delivery
- Support for 50 µL, 100 µL, 250 µL, 1 mL, 5 mL syringes
- Four Rheodyne® UHPLC Injection Port Valves
- Two Rheodyne® UHPLC 10 Port Valves AB Valves
- Support for Two External Stream Selection Valves (AB or Multi-port)
- 2 Digital Inputs, 4 Digital Outputs, 12 Contact Closure Outputs
- Support for most HPLC, UHPLC and micro flow pumps
- Integrated Wash/Rinse port

Cooling Deck

- Temperature Control from 4°C to 40°C
- Dedicated Temperature Control for each Plate Location
- Low Condensation
- Installs in place of sampling deck maintaining open deck access

Physical

- Main Unit: 28" wide, 28" deep, 28" tall, 110 lbs
- Electronics Box: 12" wide, 14" deep, 7" tall, 13 lbs
- Power Requirements: 100-240 VAC, 15 Amps
- Cooling Deck: 19" wide, 20" deep, 3.5" tall, 45 lbs
- Cooling Deck Power Supply: 6" wide, 16" deep, 3.5" tall, 13 lbs
- Cooling Deck Power Requirements: 100-240 VAC, 15 Amps

Standard Configuration

- Standard instrument setup uses 5 μL sample loops for three LC channels. A fourth channel is outfitted with a larger 20 μL sample loop to provide an FIA/MS Tune setup.
- The system has been used routinely with 2 μL sample loops. This setup has an injection volume range of 1 to 170 μL (min/max).
- Maximum injection volume can be increased to 390 μL with a slightly modified plumbing setup.

Carryover

- Less than 0.1% carryover is routinely achieved.

Typical System Solvents

- System Liquid: 50:50 (Methanol : Water)
- Wash Solvent: 30:30:30:10 (Acetonitrile : Methanol : Isopropanol : 0.1% formic acid)

Injection Precision (% RSD)

- 4-6% for multiply injected file using 'trap and elute' LC method N = 12 (15 sec/sample cycle time, 0.1 μM Buspirone, 10 μL injection volume).