

215 Liquid Handler/Injector



Single-Probe Liquid Handler/Injector/ Fraction Collector

Features

- Accurate and precise (X/Y/Z) positioning system with the flexibility of accommodating more than 330 standard and custom rack options
- Laboratory-proven, rugged multipurpose workstation
- Separate flow paths for both sample handling and fraction collection
- Peltier racks for samples and fractions
- Utilizes a wide range of injection probes, sample loops and syringes
- High-force Z-arm

Benefits

- Accommodates 96- or 384-well microplates and a wide variety of vials, tubes or bottles
- Performs sample preparation, injection and fraction collection on one robust platform
- Eliminates contamination between your samples and fractions
- Versatile bed layout for precise heating and cooling of vials or plates
- Load analytical- and preparative-scale sample volumes and fractions
- Pierces most thick or thin septum (including Vacutainer™ tubes)

Applications

- Analytical analysis and preparative scale purification of synthetic and biological compounds
- Semipreparative compound purification and identification as part of Gilson's LC/MS Autopurification System

Technical Specifications

Liquid Handling†	Reproducibility: 1.37% CV with 50 µL of water Accuracy: 99.7% with 50 µL of water †Contact Gilson Customer Service to learn what methods and conditions were used to obtain the values.
Injection†	Reproducibility: <0.9% CV with 1-mL syringe and total loop filling method Carryover: <0.1% †Contact Gilson Customer Service to learn what methods and conditions were used to obtain the values.
Sampler Type	Stationary bed X/Y/Z robot
Bed Capacity	Up to five Code 200- or Code 800-Series racks, up to seven Code 20- or 30-Series racks (or a combination of up to five racks of both types), or one Code 500-Series and one Code 200-Series rack
Syringe Pump	Internal, integral, high-precision, single-piston
Syringe Capacity	100, 250 or 500 µL; 1, 5, 10 or 25 mL
Probe Positioning Performance	Accuracy: ±0.5 mm in X/Y dimensions, ±1 mm in Z dimension Repeatability: ±0.25 mm in X/Y/Z dimensions
Arm Speed	>45.7 cm/sec (>18 in./sec) in X dimension >40.6 cm/sec (>16 in./sec) in Y dimension
Horizontal Motion Strength	X: 5 kg (11 lbs.) Y: 7 kg (15 lbs.)
Vertical Punch Strength	Standard Z-arm: 5 kg (11 lbs.) High-force Z-arm: 18 kg (40 lbs.)
Software	Gilson TRILUTION™ Software
Communication Interface	RS-232 or GSIOC; Four inputs (contact closure, TTL, or open-collector), four relay outputs and one switched +24V DC 1A output
Display Panel	8-character LCD
Front Panel	START and emergency STOP soft keys
Power Requirements	Frequency: 50–60 Hz Voltage: 100–120 or 220–240V, mains voltage fluctuations not to exceed ±10% of the nominal voltage Current rating: 2.0A for 100–120V or 1.0A for 220–240V
Manufacturing Standards	Meets applicable Safety and EMC certification standards; UL and CE certified
Instrument Dimensions (w x d x h*)	91 x 61 x 56 cm (36 x 24 x 22 in.) *Maximum height. Z-arm height is adjustable to accommodate vessel heights from 1–150 mm (dependent on installed Z-arm).
Instrument Weight	40 kg (89 lbs.)
Shipping Weight	77 kg (170 lbs.)

For applications or additional information, contact your local Gilson Technical Sales Representative or visit www.gilson.com.

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