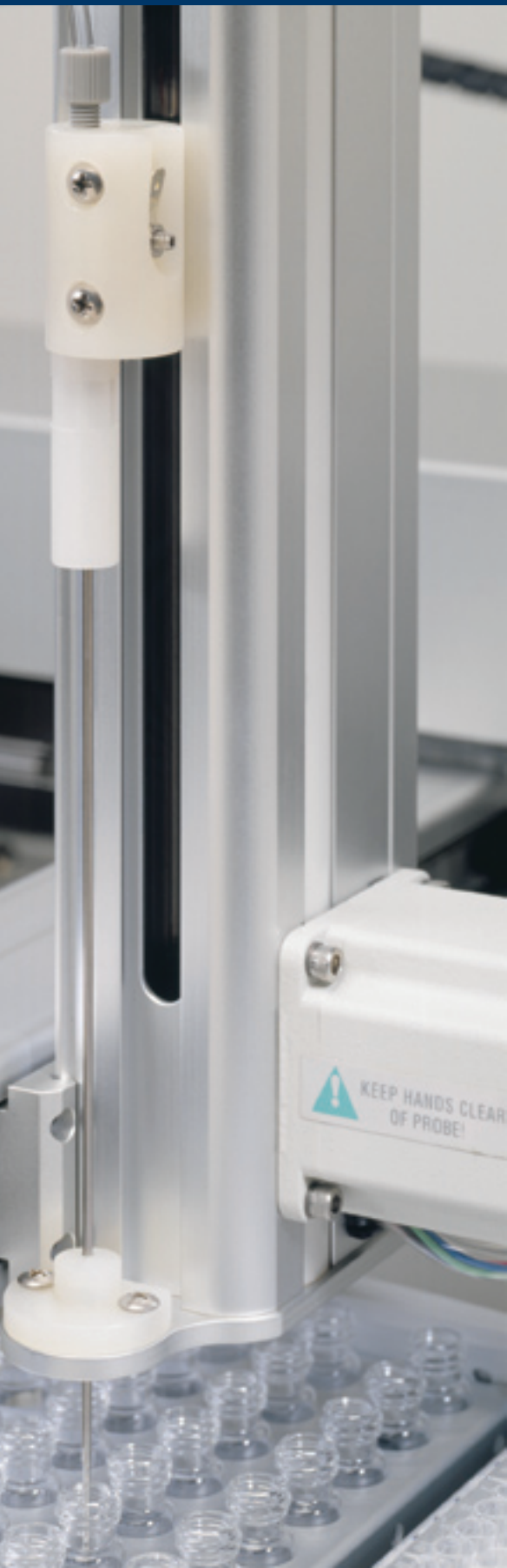


215 SW Liquid Handler/Injector



Small Footprint, Single-Probe Liquid Handler/Injector

Features

- Smaller footprint than the standard 215 Liquid Handler
- Accommodates virtually all of Gilson's 330+ standard and custom racks
- The 215 SW Controller provides remote-access control (for fume hood use)
- Increased clearance between the Z-arm and the bed
- Optional High Force Z-Arm provides more than twice the vertical punch strength than the standard Z-arm
- Optional 819 Injection Modules

Benefits

- Saves on bench space, fits inside a fume hood for safer use while working with volatile solvents
- Provides increased application flexibility
- Provides remote "kill" switch outside of the instrument bed space for operator safety and protects the electronics from solvents
- Accepts larger tubes and bottles (up to 180 mm in height)
- Allows piercing of thick septa such as Vacutainer™ tubes
- Enable automated on-line injection onto HPLC systems

Applications

- Automated NMR tube loading
- Sample additions
- Sampling into vials
- Timed reactions
- Tube-to-tube transfers



Technical Specifications

Liquid Handling†	Accuracy: <ul style="list-style-type: none"> • open-tube-to-open-tube transfer at 50 µL: A = 94.0%; at 400 µL: A = 100.0% • closed-tube-to-open-tube transfer at 50 µL: A = 91.0%; at 400 µL: A = 98.9% Cross-contamination: 10 ppm †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: <0.01% †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 four Code 200-Series racks, four Code 20- or 30-Series racks (or a combination of up to four racks of both types), four 800-Series Peltier racks (852, 853 or 854) or one Code 500-Series rack
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	X: >45.7 cm/sec (>18 in./sec) Y: >40.6 cm/sec (>16 in./sec)
Horizontal Motion Strength	X: 4 kg (9 lbs.) Y: 3 kg (7 lbs.)
Vertical Punch Strength	5 kg (12 lbs.) High-force Z-arm: 11 kg (25 lbs.)
Software	Gilson TRILUTION™ Software
Communication Interface	RS-232 or GSIO; Four inputs (contact closure, TTL, or open-collector), four relay outputs and one switched +24V DC 1A output
Power Requirements	Frequency: 50–60 Hz Voltage: 100–120 and 200–240V, mains voltage fluctuations not to exceed ±10% of the nominal voltage Current rating: 3.0A for 100–120V or 1.5A for 220–240V
Manufacturing Standards	Meets applicable Safety and EMC certification standards; UL and CE certified
Instrument Dimensions (w x d x h*)	78.7 x 61 x 74.9 cm (31 x 24 x 29.5 in.) *Maximum height. Z-arm height is adjustable to accommodate vessel heights from 1–180 mm (dependent on installed Z-arm). 215 SW Controller: 26.2 x 40.6 x 15.2 cm (10.3 x 16 x 6 in.)
Instrument Weight	39 kg (85 lbs.) 215 SW Controller: 6 kg (13 lbs.)
Shipping Weight	70 kg (155 lbs.)

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

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