

Quad-Z 215 with Disposable Tips



Automates Manual Liquid Handling Methods, Eliminates Cross Contamination

Features

- A four-probe liquid handler with the capability of employing disposable tips
- Independent probes with variable horizontal spacing from 9 to 18 mm
- Accepts both 10 μ L and 200 μ L Gilson Diamond[®] Tips
- Independent syringe control
- On-bed tip storage

Benefits

- Eliminates the concern of contamination from carryover
- Allows access to a wide range of tubes, vials and microplates
- Delivers a dispensing volume range of 1 to 200 μ L
- Allows independent volume transfer across all four tips at the same time
- Allows quick and easy access and pick up by the probes

Applications

- Microplate reformatting and sample transfer between tubes and plates
- Molecular biology applications, including DNA sequencing and plasmid purification, PCR preparation, automated sample prep, and gel preparation for electrophoresis
- Preparation of enzymatic reactions
- Pharmaceutical preparation screening
- Sample cleanup using ZipTips[®]

Technical Specifications

Liquid Handling	Reproducibility: 4.3% CV with 1 μ L of DMSO Accuracy: 113% with 1 μ L of DMSO
Sampler Type	Stationary bed X/Y/Z robot
Maximum Sample Capacity	3,072
Syringe Pump	444 QuadDilutor
Recommended Syringe Capacity	100–250 μ L
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 *Per probe
Arm Speed	>46 cm/sec (>18 in./sec) in X dimension >41 cm/sec (>16 in./sec) in Y dimension
Horizontal Motion Strength	X: 5 kg (11 lbs.) Y: 7 kg (15 lbs.)
Vertical Punch Strength	3 kg (7 lbs.)* *Per probe
Disposable Tips	Gilson Diamond [®] Tips: DL10 (10 μ L) and D200 (200 μ L)
Software	Gilson TRILUTION [™] Software
Communication Interface	RS-232 or GSI0C; Four relay outputs, one switched +24V DC 1A output and four inputs (contact closure, TTL or open collector)
Display Panel	Eight-character LCD
Front Panel	START and emergency STOP soft keys
Liquid Contact Materials	316L stainless steel, polypropylene, FEP, PTFCE (Kel F)
Power Requirements	Current rating: 2.5A for 100–120V or 1.4A for 220–240V Frequency: 50–60 Hz Voltage: 100–120V or 220–240V, mains voltage fluctuations not to exceed $\pm 10\%$ of the nominal voltage
Manufacturing Standards	Meets applicable Safety and EMC certification standards; UL and CE certified
Instrument Dimensions (w x d x h)	91 x 61 x 61 cm (36 x 24 x 24 in.) (Vertical arm height is adjustable to accommodate vessel heights between 1 and 150 mm)
Working Dimensions (w x d x h)	59 x 33 x 18 cm (23 x 13 x 7 in.)
Instrument Weight	Quad-Z 215: 40 kg (89 lbs.) 444 QuadDilutor: 14 kg (31 lbs.)
Shipping Weight	Quad-Z 215: 75 kg (165 lbs.) 444 Quad Dilutor: 18 kg (40 lbs.)

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

Gilson, Inc. World Headquarters
Middleton, WI 53562 USA
Telephone: 800-445-7661 or 608-836-1551
Fax: 608-831-4451

Gilson S.A.S.
19, avenue des Entrepreneurs
F-95400 VILLIERS LE BEL France

www.gilson.com
sales@gilson.com, service@gilson.com, training@gilson.com

