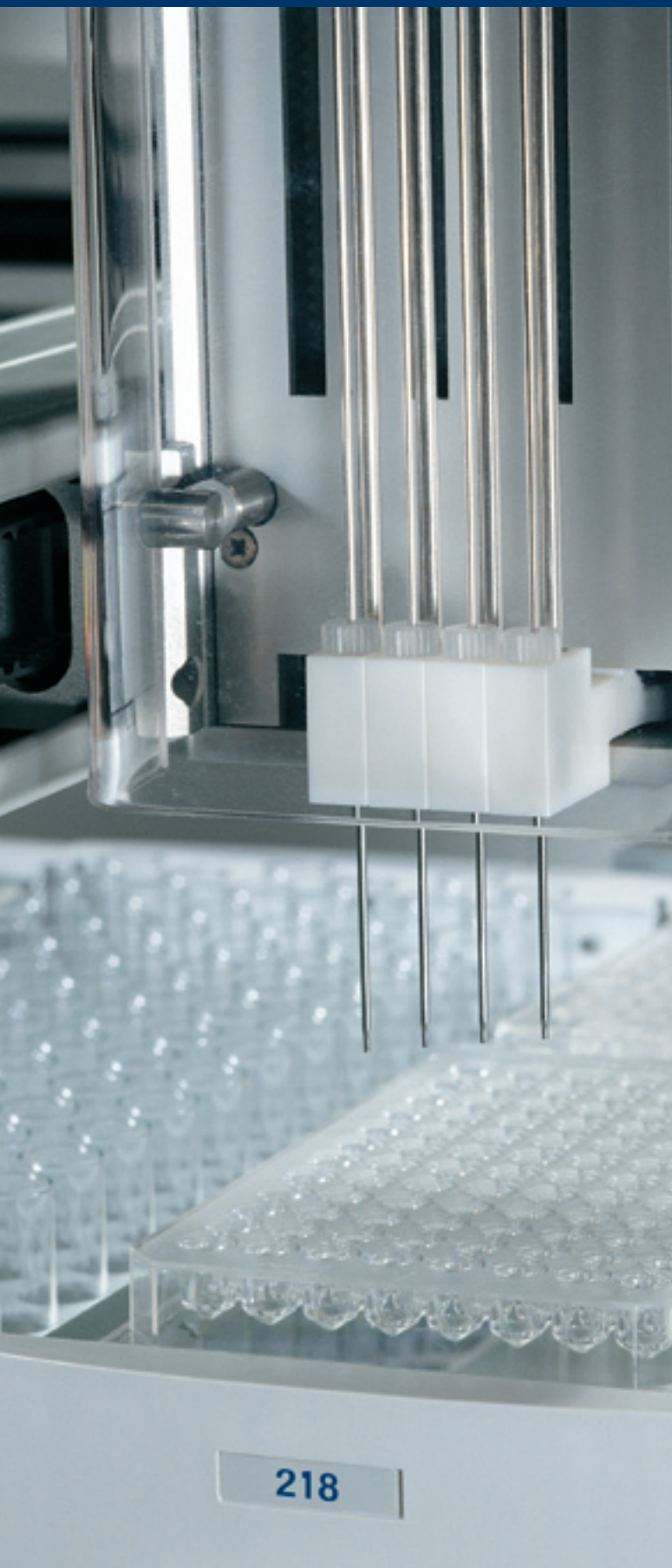


Quad-Z 215 Liquid Handler/Injector



Four Probes with Independent, Variable Horizontal Spacing

- Four independent probes with variable horizontal spacing from 9 to 18 mm for access to a wide range of sample vessels
- Large bed capacity holds up to 17 microplates
- Accommodates many of Gilson's racks for maximum flexibility for sample transfer between tubes, vials and plates
- Provides a high-throughput solution for vacuum SPE applications using 96-well SPE extraction plates with the optional Vacuum Rack and Vacuum Controller
- Gilson's 444 QuadDilutor has four independently controlled syringe pumps for use with the four independently controlled probes on the Quad-Z 215 for maximum flexibility across all four channels
- The 444 QuadDilutor accepts syringe sizes ranging from 100 μ L to 25 mL
- Optional 849 Multiple Injection Module enables automated on-line injection onto parallel HPLC systems

Applications

- Complex liquid handling applications requiring variable-spaced independent probes
- MALDI spotting, reformatting, cherry picking, peptide synthesis and more



218

Technical Specifications

Quad-Z 215

Injection	Volume: 5 µL–5 mL Reproducibility: <2.0% CV with 500-µL syringe and partial loop filling method; <5.0% CV with 500-µL syringe and total loop filling method Carryover: <0.05%
Liquid Handling	Reproducibility: 2.1% CV with 1 µL of DMSO Accuracy: 104% with 1 µL of DMSO
Arm Speed	X: >45.7 cm/sec (>18 in./sec) Y: >40.6 cm/sec (>16 in./sec)
Communication Interface	RS-232 or GSIOC; Four inputs (contact closure, TTL or open-collector), four relay outputs, and one switched +24V DC 1A output
Front Panel	START and emergency STOP soft keys
Display Panel	8-character LCD
Horizontal Motion Strength	X: 5 kg (11.1 lbs.) Y: 7 kg (15.6 lbs.)
Locator Plate Capacity	Up to five Code 200-Series racks in the standard locator plate, up to five combined Code 200-Series and Code 20/30-Series racks in the standard locator plate, up to seven Code 20- or 30-Series racks in the Code 20- or 30-Series locator plate, or one Code 505 or 505H rack plus one Code 200-Series rack
Manufacturing Standards	Meets applicable Safety and EMC certification standards; UL and CE certified
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: 2.5A for 100-120V or 1.4A for 220-240V
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
Sampler Type	X/Y/Z with stationary rack design
Software	Via Gilson TRILLUTION™ Software
Syringe Capacity	100, 250 or 500 µL; 1, 5, 10 or 25 mL
Syringe Pump	External, integral, high-precision, four-piston (444 QuadDilutor)
Vertical Punch Strength	3.06 kg/probe (6.74 lbs./probe)
Dimensions (w x d x h)	91.4 x 61 x 60.8* cm (36 x 24 x 24* in.) *Maximum height. Z-arm height is adjustable to accommodate vessel heights between 1 and 150 mm
Weight	39.9 kg (89 lbs.)

444 QuadDilutor

Drive Mechanism	Independent stepper motor driven syringe with independently operated, 3-port rotary valve
Communication Interface	RS-232 or GSIOC
Syringe Capacity	100, 250 or 500 µL; 1, 5, 10 or 25 mL
Dead Volume	123 µL
Maximum Pressure	0.8 MPa (8 bar, 110 psi); 25-mL syringe: 0.3 MPa (3 bar, 40 psi)
Liquid Contact Materials	PTFE, FEP, PEEK, glass and ceramic
Manufacturing Standards	Meets applicable Safety and EMC certification standards; UL and CE certified
Power Requirements	Frequency: 50-60 Hz Voltage: 100-120 or 220-240V, mains voltage fluctuations not to exceed ±10% of the nominal voltage
Dimensions (w x d x h)	40.4 x 28.7 x 31.2 cm (15.9 x 11.3 x 12.3 in.)
Weight	14.1 kg (31 lbs.)

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

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