

Agilent BioTek EL406 Washer Dispenser

Technical details

General	
Microplate Types	96-, 384-, and 1536-well Low profile and standard height Solid and filter bottom (option)
Onboard Software	Create, edit, or run multiple protocols
Software (Computer Control)	Agilent BioTek Liquid Handling Control (LHC2) software Agilent BioTek LHC2 Secure software enables 21 CFR Part 11 compliance (option) Agilent BioTek LHC SiLA compliant driver (option)
Separation	Biomagnetic separation, vacuum filtration (optional)
Shaking	Programmable up to 60 minutes Slow, medium, fast, or variable
Soaking	Programmable up to 60 minutes
Ultrasonic Advantage	Standard on most configurations
Automation	Agilent BioTek BioStack microplate stacker and third-party automation compatible Agilent BioTek BioSpa 8 automated incubator compatible Agilent BenchCel microplate handler compatible
Washing	
Manifold Types	96-well washing: 96-tube manifold—straight dispense tubes 96- and 384-well washing: 96-tube Dual-Action manifold—20° angled dispense tubes 384-well washing (fast): 192-tube Dual-Action manifold—7° angled dispense tubes 1536-well washing: two 32-tube dispense manifolds—7° angled dispense tubes
Volume Range	3–3,000 µL/well, in 1 µL increments
Wash Cycles	1–250
Buffer/Reagent Selection	Auto switching module for up to four buffers (option)
Supply Bottle	4 L or 10 L (optional)
Dispense accuracy	± 3%
Dispense Precision	≤ 3% CV (model dependent)
Residual Volume	≤ 2 µL/well
Wash Speed	96 wells, 300 µL/well, 96-tube manifold: 13 s 384 wells, 100 µL/well, 192-tube manifold: 17 s 1536 wells, 10 µL/wells, two 32-tube manifolds: 36 s
Flow Rates	High flow to low flow Optimized rates for cell assays
Sterilization	Chemical
Vacuum Range for Filtration	Selectable: 0 to -380 mmHg (final at 30 s) Filtration time: 5–999 s

Dispensing-Peristaltic Pump (Multichannel)	
Manifold Types	8-tip (1 x 8) cassette with plastic, 316 SS tubes or sapphire-jeweled 316 SS tubes
Fluid Delivery	1 peristaltic pump
Dispense Speed	96 wells, 10 µL/well: 8 s 384 wells, 5 µL/well: 12 s 1536 wells, 1 µL/well: 27 s
Volume Range	500 nL to 3,000 µL/well, selectable in 1 µL increments
Flow Rates	User programmable rates from high to low Optimized rates for cell assays
Dispense Performance	
Recommended Volume Range	1 µL cassette: 1–50 µL 5 µL cassette: 5–2,500 µL 10 µL cassette: 10–3,000 µL
Dispense Accuracy	1 µL cassette: ± 5% at 1 µL 5 µL cassette: ± 2.0% at 5 µL 10 µL cassette: ± 2.0% at 10 µL
Dispense Precision	1 µL cassette: ≤ 5% CV at 1 µL; ≤ 10% CV at 500 nL 5 µL cassette: ≤ 2.5% CV at 5 µL 10 µL cassette: ≤ 2.0% CV at 10 µL
Minimum Prime Volume	1 µL cassette: 1.20 mL 5 µL cassette: 4.23 mL 10 µL cassette: 7.36 mL
Recommended Cassette Replacement Interval	1 µL cassette: 1,000 384-well microplates at 5 µL/well 5 µL cassette: 1,000 96-well microplates at 50 µL/well 10 µL cassette: 1,000 96-well microplates at 100 µL/well
Sterilization	Autoclave, chemical
Dispensing-Syringe Pump	
Manifold Types	96-well dispensing: One 16-tube (2 x 8) manifold–316 SS tubes 96-/384-well dispensing: Two 16-tube (1 x 16) manifolds–316 SS tubes 1536-well dispensing: Two 32-tube (1 x 32) manifolds–sapphire-jeweled 316 SS or 316 stainless steel tubes
Fluid Delivery	Two positive displacement syringe drives
Dispense Speed	20 µL/well, 96 wells, 1 x 16 tubes: 5.25 s 20 µL/well, 384 wells, 1 x 16 tubes: 14 s 3 µL/well 1536 wells, 2 x 32 tubes: 7 s
Volume Range	3–3,000 µL/well, selectable in 1 µL increments Minimum prime volume: 12 mL
Flow Rates	User-programmable rates from high to low
Dispense Accuracy	± 1 µL at 5 µL ± 1 µL at 20 µL ± 1% at 100 µL
Dispense Precision	≤ 5% CV at 5 µL ≤ 2.5% CV at 20 µL ≤ 1% CV at 100 µL
Supply Bottle	1 L or 2 L
Sterilization	Chemical, autoclavable option
Physical Characteristics	
Power	100–240 Volts AC at 50–60 Hz
Dimensions	16.5" W x 18" D x 12.5" H (42 x 46 x 32 cm)
Weight	32 lb (14.5 kg)

Configurations

Part Number	1536-/384-/96-Well	1536-/384-Well	1536-Well	384-/96-Well	384-Well	96-Well	3 Reagent Dispensers	2 Reagent Dispensers	1 Reagent Dispenser
406PSUB3SB	•						•		
406PSUB3LB	•						•		
406PSUB1SB	•						•		
406PSUB1LB	•						•		
406PSUB2SB		•					•		
406PSUB2LB		•					•		
406PSU0SB			•				•		
406PSU0LB			•				•		
406SNA0LB			•					•	
406PSUB3				•			•		
406PSUB1				•			•		
406PUB3				•					•
406PUB1				•					•
406PSUB2					•		•		
406PUB2					•				•
406PSNA4						•	•		
406SNA4						•		•	
406P4						•			•

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