

# Agilent BioTek 405 LS Washer

## Technical details

General	
Microplate Types	96- and 384-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
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Ultrasonic Advantage	Yes (option)
Verify Technology Clog Detection	Yes (option)
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
Volume Range	96-tube manifold: 50–3,000 µL/tube in 1 µL increments 192-tube manifold: 25–3,000 µL/tube in 1 µL increments
Wash Cycles	1–250
Buffer/Reagent Selection	Auto switching module for up to four buffers (option)
Supply Bottle	4 or 10 L (optional)
Dispense Precision	< 3% CV: 300 µL/well (96-well washing) < 4% CV: 80 µL/well (384-well washing)
Residual Volume	≤ 2 µL/well (96- and 384-well plates) 96-tube manifold for 96 wells; 192-tube for 384 wells
Wash Speed	96-wells, 300 µL/well, 3 cycles; ≤ 30 s 384-wells, 100 µL/well, 3 cycles; ≤ 80 s 384-wells, 400 µL/well, 1 cycle; ≤ 20 s
Flow Rates	High flow to low flow Optimized rates for cell assays
Sterilization	Chemical

Vacuum Filtration	Selectable: approximate final at 30 s: Lowest: -38 mmHg Low: -113 mmHg Medium: -200 mmHg High: -390 mmHg Highest: -506 mmHg Vacuum filtration time range: 5-999 s
<b>Physical Characteristics</b>	
Power	100-240 volts AC at 50-60 Hz
Dimensions	14" W x 17" D x 10" H (35.6 x 43.2 x 25.4 cm)
Weight	With internal buffer switching: 36 lb (16.5 kg) Without internal buffer switching: 30 lb (13.5 kg)

## Configurations

Part Number	384-Well	96-Well	Optimized Cell Washing	4-Buffer Switching	Ultrasonic Advantage	Verify Technology	Biomagnetic Separation**	Vacuum Filtration**
405LSHT	•	*			•		•	•
405LSHTV	•	*		•	•		•	•
405LSU	•	•	•				•	•
405LSUV	•	•	•	•			•	•
405LSUS	•	•	•		•		•	•
405LSUSQ	•	•	•		•	•	•	•
405LSUVS	•	•	•	•	•		•	•
405LSUVSQ	•	•	•	•	•	•	•	•
405LSR		•					•	•
405LSRV		•		•			•	•
405LSRS		•			•		•	•
405LSRSQ		•			•	•	•	•
405LSRVS		•		•	•		•	•
405LSRVSQ		•		•	•	•	•	•

\* 96-well washing available with optional manifold part number 1170010, sold separately.

\*\* With available accessory module sold separately.