

405 TS

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)	LHC2 pc software (option) LHC2 Secure for 21 CFR Part 11 compliance (option) SiLA Compliant driver (option)
Separation	Biomagnetic separation, vacuum filtration

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Shaking	Programmable up to 60 minutes Slow, medium, fast or variable
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Ultrasonic Advantage™	Yes (option)
Verify™ clog detection	Yes (option)
Automation	BioStack and 3rd party automation compatible BioSpa 8 Automated Incubator 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

25-3,000 μL /well (192-pin manifold) 50-3,000 μL /well (96-pin manifold)

Wash cycles

1 - 250

Buffer/reagent selection

Auto switching (internal) for up to 4 buffers (option)

Supply bottle

Supply bottle

4 L or 10 L (optional)

Dispense
precision

<3% CV: 300 μ L/well (96-
well washing)

<4% CV: 80 μ L/well (384-
well washing)

Residual
volume

≤ 2 μ L/well (96- & 384-
well plates)

96-tube manifold for 96
wells; 192-tube for 384
wells



Wash speed

96-wells, 300 μ L/well, 3
cycles; ≤ 30 seconds

384-wells, 100 μ L/well, 3
cycles: ≤ 80 seconds

384-wells, 400 μ L/well, 1
cycle: ≤ 20 seconds

Flow rates

High flow to low flow

Optimized rates for cell
assays

Sterilization

Chemical

Selectable: Approximate
final at 30 seconds:

Vacuum
filtration

Chemical

Selectable: Approximate
final at 30 seconds:

Lowest: -38 mmHg

Low: -113 mmHg

Medium: -200 mmHg

High: -390 mmHg

Highest: -506 mmHg

Vacuum filtration time

range: 5 to 999 seconds



PHYSICAL CHARACTERISTICS

Power	100 - 240 Volts AC. 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 lbs (16.5 kg) Without - 30 lbs (13.5 kg)



REGULATORY

Regulatory	CE and TUV marked. ROHS compliant. In Vitro Diagnostic use models are available.
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