

SPECIFICATIONS.

HydroSpeed™ Plate Washer.



The table below lists the specifications[#] for the HydroSpeed high speed microplate washer for 96 and 384 well plates.

General Specifications.

Parameters	Characteristics
Number of dispensing channels	1 – 4 (depending on the instrument configuration) Wash buffer bottle volume: 5 l or 10 l (large volume option, only with LLD) Waste bottle volume: 10 l (with or without LLD) or 20 l (large volume option, only with LLD)
Wash head types	96HT for high speed washing in 96-well format 384HT for high speed washing in 384-well format 96-indexing for flexible washing in 96- and 384-well formats

96-well microplates Specifications.

Parameters	Characteristics
Wash volume	50 – 3,000 µl in increments of 50 µl
Wash time	15 seconds for 1-cycle wash incl. crosswise asp. step 25 seconds for 3-cycle wash incl. crosswise asp. step (disp. vol.: 300 µl/well, disp. rate: 5, asp. rate: 5, 96HT head)
Dispense volume	50 – 400 µl in increments of 50 µl
Dispensing accuracy	≤ 5 % across plate, gravimetric measurement (disp. volume: 300 µl, disp. rate: 5, respectively asp. rate: 5, 96HT head, wash buffer plus 0.1 % Tween, Greiner® 96-well flat-bottom plate)
Dispensing uniformity	≤ 3 % across plate (disp. volume: 300 µl, disp. rate: 5, respectively asp. rate: 5, 96HT head, wash buffer plus 0.1 % Tween, Greiner 96-well flat-bottom plate)
Residual volume	≤ 2 µl per well, crosswise asp. (disp. rate: 5, respectively asp. rate: 5, asp. time: 5 s, 96HT head, wash buffer plus 0.1 % Tween, Greiner 96-well flat-bottom plate) ≤ 5 µl per well, single asp. point (disp. rate: 5, respectively asp. rate: 5, asp. time: 5 s, 96HT head, wash buffer plus 0.1 % Tween, Greiner 96-well round- and v-shaped bottom plates)
Carry over	Less than 1 ppm (parts per million) between plates

384-well microplates Specifications.

Parameters	Characteristics
Wash volume	10 – 1,000 µl in increments of 10 µl
Wash time	15 seconds for 1-cycle wash incl. asp. step 25 seconds for 3-cycle wash incl. asp. step (disp. vol.: 100 µl/well, disp. rate: 5, asp. rate: 5, 384HT head)
Dispense volume	10 – 120 µl in increments of 10 µl
Dispensing accuracy	≤ 5 % across plate, gravimetric measurement (disp. volume: 100 µl, disp. rate: 5, respectively asp. rate: 5, 384HT head, wash buffer plus 0.1 % Tween, Greiner 384-well flat-bottom plate)

Parameters	Characteristics
Dispensing uniformity	≤ 4 % across plate, gravimetric measurement (disp. volume: 100 µl, disp. rate: 5, respectively asp. rate: 5, 384HT head, wash buffer plus 0.1 % Tween, Greiner 384-well flat-bottom plate)
Residual volume	≤ 2 % per well, single asp. point (disp. rate: 5, respectively asp. rate: 5, 384HT head, wash buffer plus 0.1 % Tween, Greiner 384-well flat-bottom plate)
Carry over	Less than 1 ppm (parts per million) between plates, respectively between plate quadrants when working with the indexing wash head.

Additional Features and Software.

Parameters	Characteristics
Computer interface	USB
Shaking	Linear shaking; high, medium and low settings
Software	HydroControl (incl. FDA 21 CFR Part 11 functionality)
Colors	White (standard), red, blue

Dimensions and operating conditions.

Parameters	Characteristics
Outside dimensions	Width: 38.8 cm (15.3 inch) Depth: 43 cm (16.9 inch) Height: 28.8 cm (11.3 inch) Max. height of loading position (10.15 cm): Greater depth and height in service position
Weight	15 kg
Power supply	115 V / 60 Hz 230 V / 50 Hz
Operating conditions	Ambient temperature: Operation: 15°C to 35°C (59°F to 95°F); Storage: -30°C to 60°C (-32°F to 140°F) Relative humidity: Operation: 20 % to 80 % (non-condensing); Storage: 10 % to 80 % (non-condensing)

Options and Instrument Accessories.

Parameters	Characteristics
Liquid Level Detection (LLD, swimmer-based)	4-inlet channels large volume LLD incl. wash bottles LLD and waste bottle LLD
Magnetic bead washing	• Plate Carrier Smart-2 MBS 96 • Plate Carrier MBS 96 • Plate Carrier MBS 384
Vacuum filtration	Vacuum range: -50 to -300 mbar • Vacuum pump: 115 V • Vacuum pump: 230 V
For robotic integration	Shallow integration feet

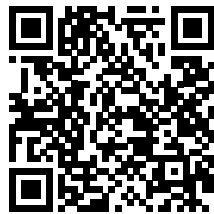
Available Product Versions.

HydroSpeed (GP) # 30087536

Instrument specifications have been defined using Greiner flat-bottom compact 96-well and 384-well microplates and may vary using other 96-well microplates.

For further information and availability in your country please contact your local Tecan sales representative.

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