

# SPECIFICATIONS.

## HydroFlex™ Microplate and Strip-Plate Washer.



The table below lists the specifications<sup>#</sup> for the HydroFlex microplate washer.

### General Specifications.

Parameters	Characteristics
Display unit	Liquid Crystal Display with two rows of sixteen digits
Keyboard	Four key membrane keyboard
Number of dispensing channels	1, 2 or 4 channels Wash buffer bottle volume: 2,5 l Waste bottle volume: 5 l
Manifold types	8- or 16-way manifold for parallel processing of 8 or 16 wells

### Variable Specifications.

Parameters	Characteristics
Volume of solution dispensed	50 – 3,000 µl in 50 µl steps (washing) 50 – 400 µl in 50 µl steps (dispensing)
Dispensing accuracy	≤ 2 % Measured under following conditions: 8-way manifold, 300 µl, dispensing rate 3 (250 µl/s/well), wash buffer, Greiner® 96 well flat bottom plate Typical performance values** ≤1.2 % typical** (300 µl dispense volume, dispense rate: 3, 8-way manifold)
Dispensing uniformity (CV)	≤ 4 % CV Measured under following conditions: 8-way manifold, 300 µl, dispensing rate 3 (250 µl/s/well), wash buffer, Greiner 96 well flat bottom plate Typical performance values** ≤2.5 % over the plate typical** (300 µl dispense volume, dispense rate: 3, 8-way manifold)
Residual volume	Measured under following conditions: ≤ 2 µl / well (Greiner 96-well flat bottom plate) - Crosswise aspiration, 8-way manifold, aspiration rate: 3, aspiration time: 4 s, head speed: 10 mm/s, wash buffer. - Residual volume of ≤ 2 µl / well cannot be guaranteed if a 16-way manifold is used and if not, all wells are filled with liquid. Typical performance values** Crosswise aspiration: ≤1.8 µl per well (96-well, flat-bottom Greiner plate) (asp. rate: 3; asp. time: 4 sec; head speed: 10 mm/sec; 8-way manifold) ≤ 5 µl / well (Greiner 96-well round bottom and V-shaped bottom plates) - Single aspiration, 8-way manifold, aspiration rate: 3, aspiration time: 4 s, head speed: 10 mm/s, wash buffer. - Residual volume of ≤ 5 µl / well cannot be guaranteed if a 16-way manifold is used and if not, all wells are filled with liquid.
Carry over between wells	≤ 1 ppm The Carry over between wells ≤ 1 ppm cannot be guaranteed if not all wells are filled with liquid.



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 (Orange, green, silver only available for #30087531)

Dimensions and operating conditions.

Parameters	Characteristics
Outside dimensions	Width: 275 mm (10.8 inch) Depth: 366 mm (14.4 inch) Height: 180.5 mm (7.1 inch)
Weight	6.6 kg
Supply	100 - 120 V or 220 - 240 V, 50/60 Hz (Auto-sensing)
Operating conditions	Ambient temperature: Operation: 15°C to 35°C (59°F to 95°F); Storage: -20°C to 60°C (-4°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)	1, 2 or 4 input channels with LLD
Plate carriers	For ELISA and cell washing: • Plate Carrier Standard  For Magnetic Bead Washing: • Plate Carrier MBS • Plate Carrier Smart-MBS • Plate Carrier Smart2-MBS
Low Level Vacuum Filtration (LLV option)	Vacuum range: -50 to -150 mbar incl. plate carrier with soft-gasket

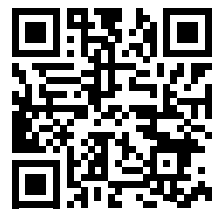
Available Product Versions.

HydroFlex (GP) #30087531  
HydroFlex Plus (IVDR) #30190374

# Instrument specifications have been defined using Greiner flat-bottom compact 96-well microplates and may vary using other 96-well plates or 96-well strip-plates.  
All specifications listed are based on the following instrument settings:  
Dispense/Wash rate: 250 µl/s  
Aspiration rate: 3  
\*\* Specifications are subject to change. Typical performance values represent the average observed factory-tested values.

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

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