

DAW50TS Microplate Washer Specification

General

Microplate types: 24-, 96-, 384-well plates and microwellstrips
 Shaking: Programmable in minutes and seconds up to 30 minutes
 5 intensities from 15-19 Hz
 Soak time: Programmable in minutes and seconds up to 30 minutes
 Separation methods: Biomagnetic separation ("M" configurations)
 Vacuum filtration ("F" configurations)
 User interface: 4.3" color LCD touchscreen
 Onboard software:

- Up to 75 user-programmable protocols
- Quick menu
- Create or edit custom protocols
- Run protocols created onboard or downloaded from LHC™ Software

 Software: Liquid Handling Control™ (LHC™), for PC wash protocol programming and execution (optional)

Washing

Manifold types:

- 96-well washing:
 - 8-well (1x8) manifold, 2x8-well manifold, 12-well (1x12) manifold
 - 8-well short tube (1x8) manifold
- 96-/384-well washing: Dual-Action™ 16-well manifold
- 24-well washing: 4-well manifold

 Volume range: 25-3,000 µL well
 Fluid delivery: One positive displacement syringe drive
 Wash cycles: 1-10
 Buffer/reagent selection: Automated switching for up to 3 buffers ("V" configurations)
 Wash speed:

Plate	Manifold	Speed
96 well	2x8 well	<80s for 12 strips (3 cycles, 300 µL/well, no soak)
96 well	12 well	<90s for 8 strips (3 cycles, 300 µL/well, no soak)
96 well	8 and 8s well	<130s for 12 strips (3 cycles, 300 µL/well, no soak)
384 well	8, 16 well	<260s for 24 strips (3 cycles, 100 µL/well, no soak)
24 well	4 well	<60s for 24 wells (1 cycle, 1120 µL/well, no soak)

Dispense Precision:

	Manifold	Performance
96-well	8 and 8s well	≤3.0% CV when measured over six 300 µL-per-well dispenses of deionized water with 0.1% Tween 20.
96-well	12 well	≤3.0% CV when measured over four 300 µL-per-well dispenses of deionized water with 0.1% Tween 20.
384-well	8, 16 well	≤4.0% CV when measured over six 100 µL-per-well dispenses of deionized water with 0.1% Tween 20.
96-well	2x8 well	≤4.0% CV when measured over six 300 µL-per-well dispenses (whole plate) of deionized water with 0.1% Tween 20.
24-well	4 well	≤4.0% CV when measured over six 1120 µL-per-well dispenses of deionized water with 0.1% Tween 20.

Residual Volume:

	Manifold	Performance
96-well	8 and 8s well	≤2.0 µL/ well after 3-cycle wash, 300 µL/well dispensed
96-well	12 well	≤2.0 µL/ well after 3-cycle wash, 300 µL/well dispensed
384-well	8, 16 well	≤4.0 µL/ well after 1-cycle wash, 100 µL/ well dispensed
96-well	2x8 well	≤4.0 µL/ well after 3-cycle wash, 300 µL/well dispense
24-well	4 well	≤50 µL/ well after 1120 µL is dispensed per well
96-well	Vacuum filtration	Average increased weight of the plate is <1.2 grams after dispensing 300 µL of DI water per well