

## Wellwash® AC

**Wellwash AC guarantees excellent washing performance and low residual volumes for 96-well microplates in research or high-throughput applications.**

### Superb washing performance

Washing performance is excellent. Residual aspiration volumes after the washing cycle are less than 1  $\mu\text{l}$  per well when the advanced sweep aspiration is used. During the advanced sweep function, the wash head moves in quick steps instead of scraping the bottom of the well.

### Rapid washing

The twin-strip wash head of the Wellwash AC rapidly traverses the stationary plate during washing. The design also provides the quickest and safest way to change the wash heads, with a choice of double 24- or 16-way and single 12- or 8-way formats.

### Enables reduced soaking times

Wellwash AC features an integrated orbital shaker with programs to adjust the duration of shaking

and the speed, depending on the volume of the liquid in the wells. Shaking during a soak period improves sensitivity, specificity and precision of an assay; thereby, shorter soaking times can be used.

### Unique multibuffer module

Wellwash AC is a multibuffer microplate washer with its own separate liquid management module. Switching to liquid purging is fully automated, ensuring secure wash buffer changes. Unique quick-release bottle caps house the liquid-level sensing system, which provides audiovisual warnings.

### Minimal setup time

Wellwash AC has automatic rinsing and priming modes that can also be activated on demand. The useful stand-by function of Wellwash AC partially flushes the wash heads with rinsing solution and parks the

wash head in the priming vessel that contains rinsing solution. In this way, Wellwash AC is ready for use whenever needed, with a minimal setup time.

### Easy-to-use programming

Wellwash AC provides the easiest and most flexible programming. The easy programming is based on a question-and-answer format, allowing control over all wash parameters. A special feature is the ability to include additional dispensing of



a second buffer after the complete washing protocol, within the same program. A total of 99 wash assay programs, each with up to 4 linked protocols, can be stored.

### Robot compatible

Thermo's Wellwash AC offers laboratories additional capacity through its easy robot compatibility. Plate handling devices for stacking and transferring plates can be used to increase flexibility and improve throughput.

### IQ/OQ/PQ

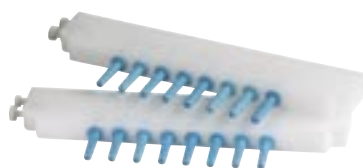
The instrument qualification IQ/OQ/PQ Protocol Book is available for the Wellwash AC. For further information about the features of the IQ/OQ/PQ, see page 52.

### Technical Specifications

Plate type	96-well plate	
Wash heads	8-, 12-, 16-, and 24- way	
Orbital shaker	2 mm orbit, 650 – 990 rpm	
Program memory	99 (each program can include up to four linked wash protocols even with different wash buffers)	
Washing volume	50 – 1000 µl in 50 µl increments	
No. of washing cycles	1 – 10	
Residual aspiration volume	< 3 µl with normal aspiration mode < 1 µl with sweep aspiration mode	
Aspiration height	Adjustable	
Aspiration mode	Normal or sweep	
User interface	Keyboard with 20 key tactile membrane, 8 x 21 character LCD screen	
Interface	Serial RS-232 port	
Dispensing volume	50 – 400 µl	
Dispensing accuracy	± 5% at 300 µl	
Dispensing precision	CV 3% at 300 µl	
Soaking/shaking time	1 – 60 min	
Priming and rinsing volume	5 – 100 ml in 5 ml increments	
Washing time	100 s, 3 x 350 µl with 2 x 12-way wash head 140 s, 3 x 350 µl with 2 x 8-way wash head	
Liquid containers*/Cat. no.	<b>5161020</b>	<b>5161030</b>
	Wash bottle	2 x 2 liter    2 x 4 liter
	Rinse bottle	1 liter        2 liter
	Waste bottle	4 liter        10 liter
<b>Dimensions</b> (Including bottle module)		
Width	540 mm (21.3 in.)	640 mm (25.2 in.)
Depth	530 mm (20.9 in.)	670 mm (26.4 in.)
Height	390 mm (15.4 in.)	500 mm (19.7 in.)
Weight	13 kg (28.8 lbs.)	14.8 kg (32.6 lbs.)

\* All containers are fitted with a liquid level sensor and quick-release cap.

→ Ordering information on pages 54–55.



2 x 8-way wash heads



2 x 12-way wash heads

Programming is easy with the keypad and visual LC display of the Wellwash AC.

