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Medical-Biological Research & Technologies

3D-IW8, Inteliwasher

Premium Product Class

DESCRIPTION



Inteliwasher **3D-IW8** series microplate washer is designed for washing various types of standard 96-well microtitre plates, microstrips as well as microarrays on FastFRAME (rectangular well shape). It is suitable for washing wells with different bottom shapes: flat, U-shape and V-shape. The unit is fully programmable ensuring multi-step solution ripening, aspiration (aspiration, combination of aspiration/liquid dispensing and soaking, as well as soaking cycle during a particular period of time). Dispense system of liquid dosage for each channel separately.

The unit provides:

- Washing mode
- Rinsing mode
- Mixing mode
- Single point, two point, circular (circle or rectangular path) aspiration
- Possibility of additional solution mixing during time gap between two work cycles
- Possibility to use microtest plates by different manufacturers, ensured by automated plate set up (adjusting to different depths of plate wells)
- Round-bottom plate and strip washing mode
- Possibility of user-defined programs with adjustable parameters

The unit has 50 programs divided into 5 following aspiration categories (see figure leftward):

- Type 1 (1.0–1.9) IPF96 U/V is intended for round and V-shape immunoplates, 1 point aspiration.
- Type 2 (2.0–2.9) IPF96 FLAT-2 is intended for flat-bottom shape immunoplates, 2 point aspiration.
- Type 3 (3.0–3.9) IPF96 FLAT-C is intended for rectangular shape immunoplates, full-circle aspiration direction.
- Type 4 (4.0–4.9) FastFRAME-2 is intended for multi-slide plate* with rectangular wells.
- Type 5 (5.0–5.9) FastFRAME-C is intended for multi-slide* plate with rectangular wells.

* - The FastFRAME (GVS Life Sciences) multi-slide plate or analog plate of another manufacturer, that is compatible with standard 25 x 76 mm (1 x 3 inch) glass slides.

The unit is designed for use in closed laboratory rooms at temperatures from +10°C to +35°C and relative humidity up to 80% at +25°C decreasing linearly to 50% relative humidity at 35°C.

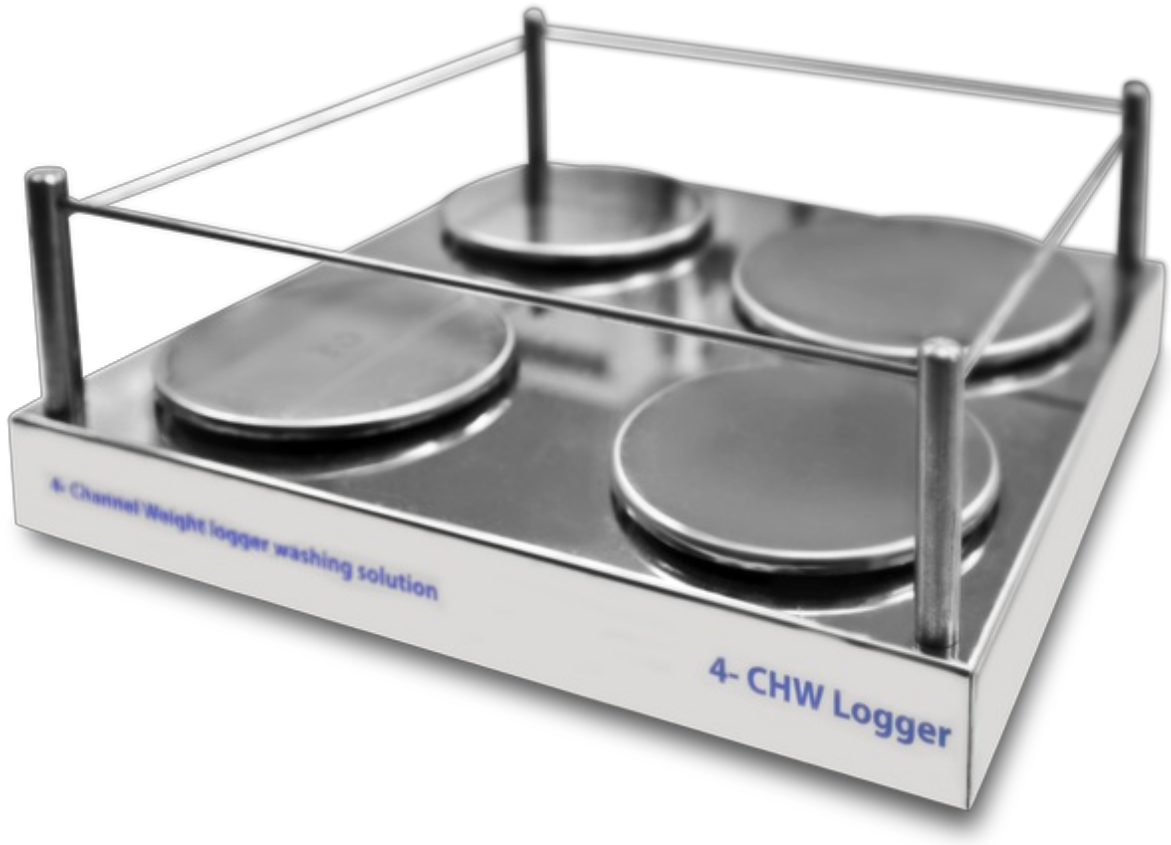
4-channel washing solution weight logger, **4 CHW Logger** provides automatic control of rinsing solution and waste volumes. The washer shows remaining volume for each bottle as percentage and gives a warning message in case of low solution volume or full waste bottle when **4 CHW Logger** is connected.

CAT. NUMBER

BS-060102-AAI	230VAC 50/60Hz Euro plug
BS-060102-AAB	230VAC 50/60Hz UK plug
BS-060102-AA4	230VAC 50/60Hz AU plug
BS-060102-AAJ	100VAC 50/60Hz US plug, 120VAC 60Hz US plug
IVD certified	IVD certified
BS-060102-IVD1	230VAC 50/60Hz Euro plug
BS-060102-IVD2	230VAC 50/60Hz UK plug
BS-060102-IVD3	100VAC 50/60Hz US plug
BS-060102-BK	IQ OQ document
BS-060102-CK	PQ document

SPECIFICATIONS

Minimum dispence volume	25 µl
Maximum dispense volume	1600 µl
Dispense increment	25 µl
Dispensing accuracy	±2.5%
Allowed residual liquid volume in plate well	not more than 2 µl
Number of wells washed simultaneously	8
Number of washing cycles	1–15
Aspiration time	1–3 s
Final aspiration time	1–3 s
Aspiration/dispensing speed	3 levels
Max. number of channels in a program	2
Choice of 3 washing liquid bottles	+
Soaking time	0–300 s (increment 10 s)
Shaking time	0–150 s (increment 5 s)
Number of washed rows	1 – 12
Time of one plate wash (300 µl), not more	45 s
Number of programs	50
Plate platform and washing head movement	automated
Indication of operation modes	LCD, 8-line
Overall dimensions (W×D×H)	375 x 345 x 180 mm
Weight	9.9 kg
Input current/power consumption	12 V DC, 1.8 A / 22 W
External power supply	Input AC 100–240 V; 50/60 Hz; Output DC 12 V



4 CHW Logger
BS-060102-AK

4-channel washing solution weight logger, **4 CHW Logger** provides automatic control of rinsing solution and waste volumes. The washer shows remaining volume for each bottle as percentage and gives a ...

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