

Washers, Aspirator



IW-8, Intelispeed Washer



Intelispeed Washer IW-8 is designed for washing of standard flat-bottom 96 well plates and microstrips. 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).

The unit has 100 user-defined programs. Standard version is supplied with 8-channel washing head for dispensing/aspiration, 3 bottles for washing and rinsing solutions, a waste bottle and bottle with filter. Optional 4-channel washing solution weight logger, 4 CHW Logger is available.

The unit is designed for washing standard 96-well plates during analyses.

The unit provides:

- Washing mode
- Rinsing mode
- Mixing mode
- Double 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)
- Plate and strip washing mode
- User-defined programs with adjustable parameters
- Saving work programs

Catalogue number:

IW-8	MA-060106-AAI
4CHW Logger	MA-060102-AK





Optional 4-channel washing solution weight logger, 4CHW Logger

4 CHW Logger Specifications:

Max. loading per scale cup	2 kg
Plate dimensions	267×252×97 mm
Weight, not more	3 kg

Specifications:

Choice of 3 washing liquid bottles	
Minimum dispense volume	25 mkl
Maximum dispense volume	1600 mkl
Dispense increment	25 mkl
Dispensing accuracy	±2.5%
Allowed residual liquid volume in plate well	no more than 2 mkl
Number of wells washed simultaneously	8
Number of washing cycles for each channel	1 – 15
Aspiration time	0.2 – 3 sec
Aspiration/dispensing speed	3 levels
Max. number of channels in a program	2
Soaking time	0 – 300 sec (increment 10)
Shaking time	0 – 150 (increment 5)
Number of washed rows	1 – 12
Time of plate single wash (350 mkl), no more	45 sec
Number of programs	100
Plate platform and washing head movement	automated
Indication of operation modes	8-line LCD
Dimensions (W × D × H)	375×345×180 mm
Weight with accessories, not more than (external power supply, bottles, tubes, washing head, plate platform and cover)	11 kg
External power supply	DC 12 V, 5 A
Consumed power, not more	60 W
The unit is designed for use in closed laboratory rooms at temperatures from +10 to +35°C and relative humidity up to 80% at +25°C decreasing linearly to 50% relative humidity at 35°C	

3D-IW8, Inteliwasher



Intelwisher **3D-IW8** series microplate washer is designed for washing various types of standard 96-well microtitre plates, microstrips as well as microarrays on 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

Catalogue number:

3D-IW8	MA-060102-AAI
4CHW Logger	MA-060102-AK

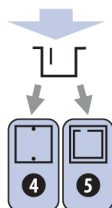
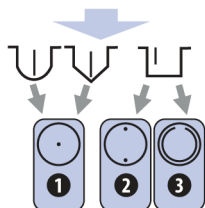
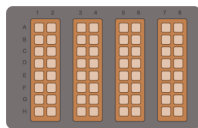
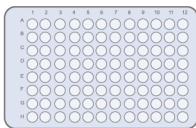




The unit has 50 programs divided into 5 following aspiration categories (see figure below):

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

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



Specifications:

Minimum dispense volume	25 μl
Maximum dispense volume	1600 μl
Dispense increment	25 μl
Dispensing accuracy	±2%
Allowed residual liquid volume in plate well, not more	2 μl
Number of wells washed simultaneously	8
Number of washing cycles	1–15
Aspiration time	1–3 sec
Final aspiration time	1–3 sec
Aspiration/dispensing speed	3 levels
Max. number of channels in a program	2
Choice of 3 washing liquid bottles	
Soaking time	0–300 sec (increment 10 sec)
Shaking time	0–150 sec (increment 5 sec)
Number of washed rows	1 – 12
Time of one plate wash (300 μl/B5l), not more	65 sec
Number of programs	50
Plate platform and washing head movement	automated
Indication of operation modes	LCD, 8-line
Dimensions (W × D × H)	375 × 345 × 180 mm
Weight with accessories	10.5 kg
External power supply	DC 12 V, 4.16 A
Consumed power, not more	60 W
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.	
Logger dimensions (W × D × H)	267 × 252 × 97 mm
Logger weight, not more	3 kg

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 4CHW Logger is connected.

FTA-1, Aspirator with trap flask



Aspirator with trap flask **FTA-1** is designed for aspiration/removal of alcohol/buffer remaining quantities from microtest tube walls during DNA/RNA purification and other macromolecule reprecipitation techniques.

The device can be used also for routine operations of cells washing from culture medium and resuspension in buffer. Aspirator operation principle is based on creating negative pressure in trapping flask using built-in microcompressor. The collecting tip is connected with polyethylene tube to the trapping flask. Liquid is removed from the microtest tube when the collecting tip touches the solution surface. A tube holder-organizer is conveniently located at **FTA-1** right hand side; it accommodates two tubes (e.g. for hydrochloric acid solution and distillate) necessary for collecting tip washing and storing, so that a tip can be re-used.

1 A suction microbiological filter eliminates risk of contamination from the trap flask with bacteria, viruses and infected particles. The suction microbiological filter is **hydrophobic**: with efficiency up to **99.9%** it holds particles bigger than **0.027 micron**, which are smaller than agents of **Hepatitis A, B and C**.

Specifications:

Vacuum	-500 mbar
Trap flask's volume	1 litre
Dimensions (W × D × H) with trap flask	160 × 210 × 340 mm
Weight with trap flask, not more	1.5 kg
Input current/power consumption	12V, 300 mA / 3.6 W
External power supply	Input AC 100-240 V 50/60Hz; Output DC 12V

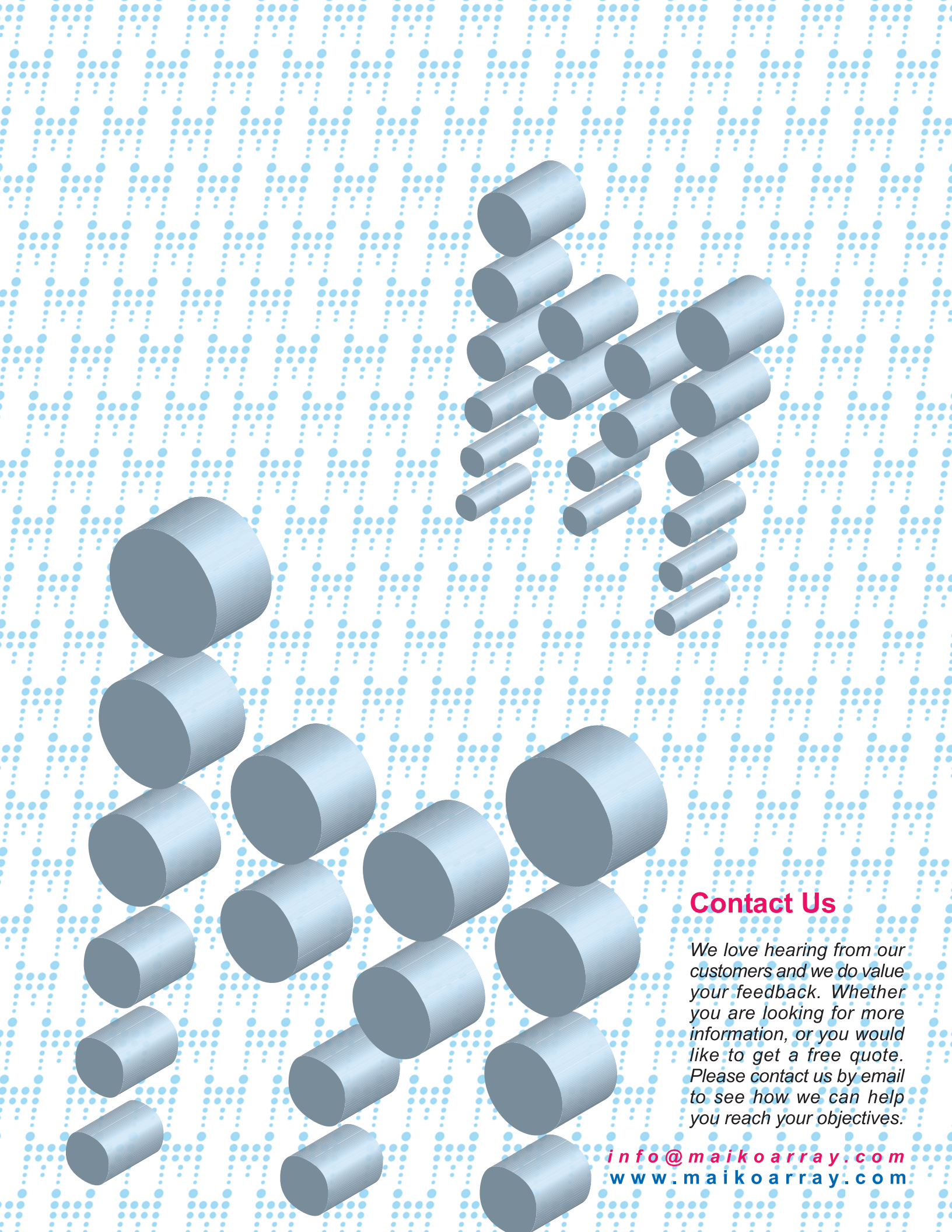
Catalogue number:

FTA-1	MA-040108-AAG
MA-8	MA-040108-BK



Optional 8-channel adapter manifold MA-8





Contact Us

We love hearing from our customers and we do value your feedback. Whether you are looking for more information, or you would like to get a free quote. Please contact us by email to see how we can help you reach your objectives.

info@maikoarray.com
www.maikoarray.com