

AIA-900[®]

FULLY AUTOMATED ENZYME IMMUNOASSAY ANALYZER



Tosoh Result Integrity • Multi-Tasking Efficiency

TOSOH BIOSCIENCE

www.tosohbioscience.us





Four Configurations Provide Expansion Capabilities

Features:

- 90 tests/hour throughput
- First result in ~ 18 minutes
- Random access / Continuous processing
- 90 day calibration for most assays
- Simple touch screen operation
- Bar-coded primary tube sampling
- Clot detection
- Automated pretreatment
- Automated dilution from 2 to 1000



AIA-900
Benchtop



AIA-900
Loader Model



AIA-900
with 9 Tray Sorter



AIA-900
with 19 Tray Sorter

AIA-900

Four Configurations for Different Sizes of Labs and Workloads

AIA-900

Benchtop

- 90 tests/hour throughput
- Load 10 racks on board

Dimensions - W/D/H:

40" x 26.18" x 30"

1016 mm x 665 mm x 762 mm

Benchtop



AIA-900

Loader Model

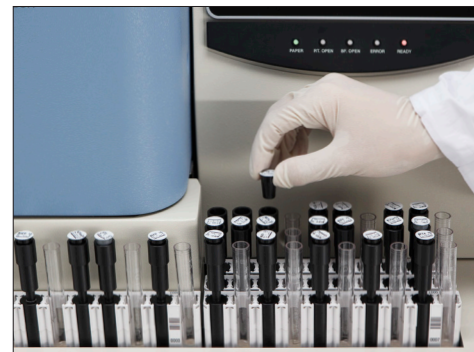
- 90 tests/hour throughput
- Load 10 racks on board

Dimensions - W/D/H:

35.04" x 26.18" x 49.09"

890 mm x 665 mm x 1247 mm

Loader Model



AIA-900

with 9 Tray Sorter

- 90 tests/hour throughput
- Load 9 trays (20 cups/tray)
- Load 10 sample racks
- Load 100 patient samples
- Increased walkaway time with loading 180 test cups

Dimensions - W/D/H:

50.79" x 26.18" x 49.09"

1290 mm x 665 mm x 1247 mm

9 Tray Sorter



AIA-900

with 19 Tray Sorter

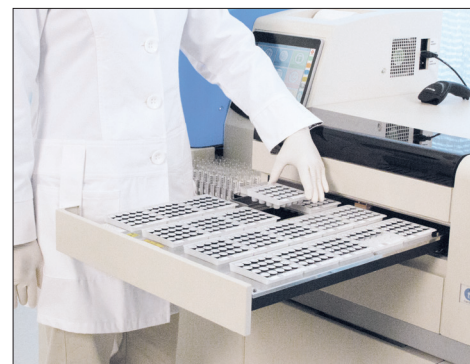
- 90 tests/hour throughput
- Load 19 trays (20 cups/tray)
- Maximize walkaway time with loading 380 test cups
- Load 10 sample racks
- Load 100 patient samples

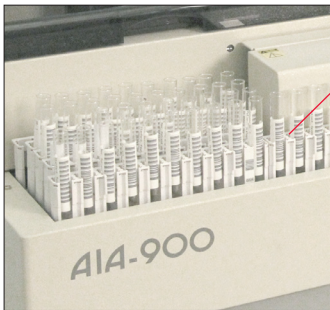
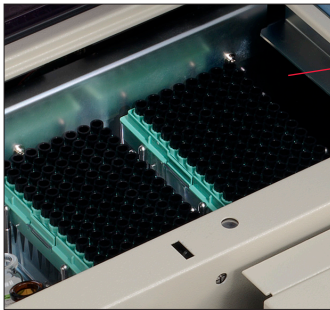
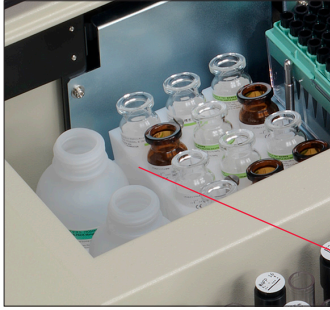
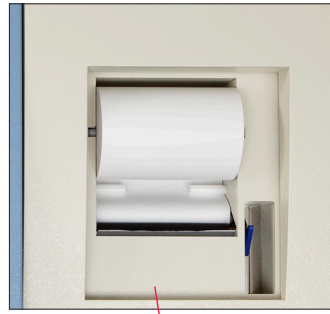
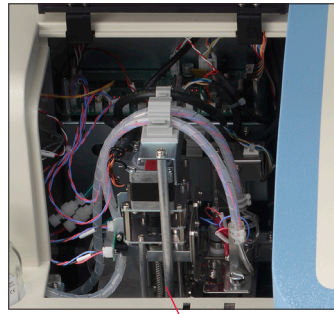
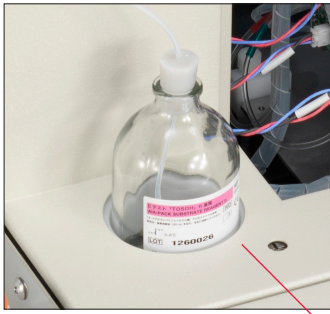
Dimensions - W/D/H:

59.84" x 26.18" x 49.09"

1520 mm x 665 mm x 1247 mm

19 Tray Sorter





Substrate II

B/F Probes

On-board Printer

Touch Screen Monitor

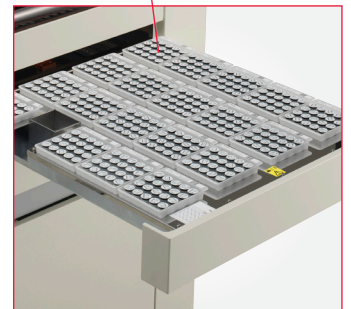
Secondary Reagents
• Types: 100 mL & 5 mL
• Variable Configurations

Tips
• 2 Racks, 96 Tips
• 192 Tips Total

Sample Loader



Self-contained common reagent storage



Optional 19 Tray Sorter
9 Tray Sorter also available

Load tubes for Sorter Models

Load cups and tubes for Loader Model

AIA-900

Automated Inventory Management Screens

Test Cup Inventory

No.	ANALYTE	LOT	TEST	FLAG
1	STD	033	19	
2	#TSH	080	20	NC
3	#FER	011	18	NC

Secondary Reagents

Changing Reagents

Unit Dose Test Cup Reagent Technology



The AIA-PACK test cup format works with every Tosoh AIA Automated Immunoassay System. Reagents are interchangeable, so laboratories with more than one Tosoh system can use the same reagents. Transition between systems is seamless, ensuring consistent results and efficient, economical operation for the laboratory.

It is very easy for a lab to add a 9 or 19 tray sorter to the instrument. The reagent's performance does not change since the analysis section of the instrument remains the same.

The AIA-900 Requires Minimal Maintenance

Daily Check

Weekly

Monthly

AIA-900 Specifications

Principle of measurement	Fluorescent enzyme immunoassay (FEIA) method
Processing method	Fully automated continuous random access
Processing ability	Max. 90 tests/hour (ST reagent)
Specimen quantity	10 - 125 μ L
Specimen clogging detection	Pressure detection method
Measurement condition	Reaction temperature: 37°C
Reaction time	Antigen-antibody reaction time: 10 minutes, 20 minutes, 40 minutes
Specimen dilution function	Dilution ratios between 2 and 1000 can be selected for each assay
Detection method	Fluorescent measurement (top-top method)
Number of sample rack sets	Max. 10
Number of samples and reagent cups	Max. 100
Specimen containers	13 x 75 mm, 13 x 100 mm, 16 x 75 mm, 16 x 100 mm (outside diameter x length of test tube) Dedicated sample cups
Specimen barcode	Supports CODE39, CODE128, ITF, NW-7, JAN/EAN/UPC, industrial 2of5, and COOP2of5
Sample tip	Dedicated tip
Number of installed sample tips	Max. 192 tips (96 tips/rack in 2 racks)
Number of reagent sets	Max. number of reagent vials: 12, Max. number of reagent bottles: 4
External output	RS232C
Power source/consumption	100 - 240 VAC, 50/60 Hz, 300 VA
External dimensions	AIA-900 Benchtop- W/D/H: 40" x 26.18" x 30"; 1016 mm x 665 mm x 762 mm AIA-900 Loader Model - W/D/H: 35.04" x 26.18" x 49.09"; 890 mm x 665 mm x 1247 mm AIA-900 with 9 Tray Sorter - W/D/H: 50.79" x 26.18" x 49.09"; 1290 mm x 665 mm x 1247 mm AIA-900 with 19 Tray Sorter - W/D/H: 59.84" x 26.18" x 49.09"; 1520 mm x 665 mm x 1247 mm
Temperature	15 °C - 30 °C (degrees Celsius)
Humidity	40 % - 80 % R.H. (non-condensing)
EMC standard	IEC61326-1: 2005, IEC61326-2-6: 2005



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