

One Instrument - Three Configurations

Which Analyzer is Just Right for Your Laboratory?



AIA-900
Loader Model



AIA-900
with 9 Tray Sorter



AIA-900
with 19 Tray Sorter

The latest addition to Tosoh's family of AIA immunoassay analyzers is available in three configurations, allowing you to choose a system that's *just right* for your laboratory workload.

AIA-900
AUTOMATED IMMUNOASSAY ANALYZER

- Instrument can be re-configured as testing volumes increase
- Throughput of 90 tests per hour
- Utilizes Tosoh's Unit Dose Test Cup reagent technology





AIA-900

Loader Model

- 90 tests/hour throughput
- Load 10 racks on board
- Load up to 5 tests/patient
- First result in ~ 18 minutes
- Random access
- Continuous processing
- Simple touch screen operation
- Bar-coded primary tube sampling
- Clot detection
- Unit Dose Test Cup
- Automated pretreatment
- Automated dilution from 2 to 1000



Dimensions - W/D/H:

35.04" x 26.18" x 49.09"

890 mm x 665 mm x 1247 mm

Simple loading



Want the ability to expand your testing capacity? ...
Just turn the page.

AIA-900
with 9 Tray Sorter



AIA-900

with 9 Tray Sorter

All the features of the AIA-900 and more...

- 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



Want the instrument to grow as your testing volume grows? ...
Just turn the page.

AIA-900
with 19 Tray Sorter



AIA-900

with 19 Tray Sorter

All the features of the AIA-900 and more...

- 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



Want to transition without worrying about reagent performance? ...
Just turn the page.



ST-AIA PACK Reagents

Unit Dose Test Cup Technology

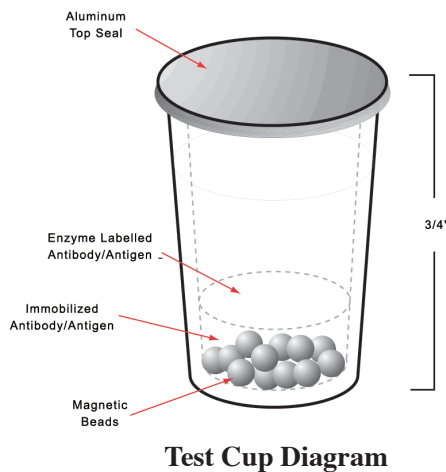
- Single, unitized cups use a dry reagent format that requires no pre-mixing, no pre-measuring, no on-board refrigeration and creates no waste.
- Dry reagent format ensures calibration stability of up to 90 days for most assays.
- Reagents have a one year shelf life from date of manufacture.
- The AIA test cups and trays are labeled with a test code and lot number for automated scheduling and inventory management on the AIA-900 sorter models. ST AIA-PACK reagents provide a faster turnaround time due to a 10 minute incubation protocol.
- Extensive test menu provides a wide range of immunoassay tests including thyroid, cardiac markers, tumor markers, reproductive hormones, anemia markers, metabolic markers, diabetes, kidney markers and more.



Common Reagents

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 unchanged.



Automated Inventory Management Screens

Test Cup Inventory

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

INVENTORY (CUP) BILL 2011/05/20 12:07

EXIT

Secondary Reagents

INVENTORY BILL 2011/05/20 12:04

- DILUTING SOLUTION
- PRETREATMENT(1 REAGENT TYPE)
- PRETREATMENT(2 REAGENT TYPE)
- 2nd REAGENT

DELETE CANCEL

Changing Reagents

SUB MENU BILL 2011/05/20 12:14

TEST FILE FLAG RULES SPECIFICATIONS LOGIN

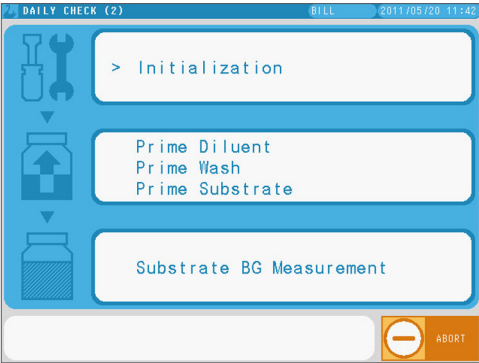
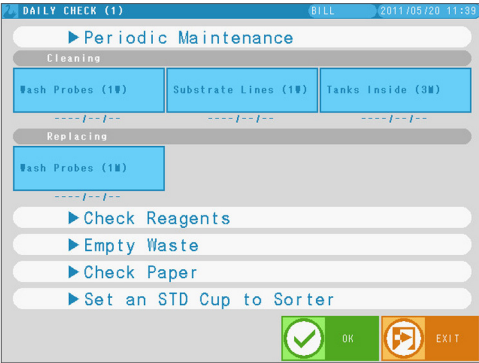
If reagent is changed, please register on INVENTORY screen.

OK

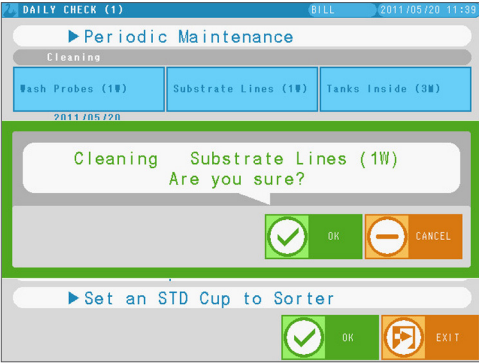
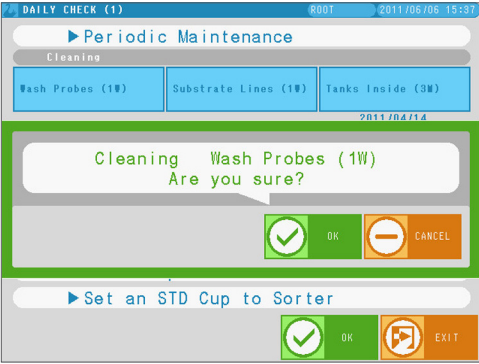
HOST DATE & TIME MAINTENANCE EXIT

The AIA-900 requires minimal maintenance

Daily Maintenance



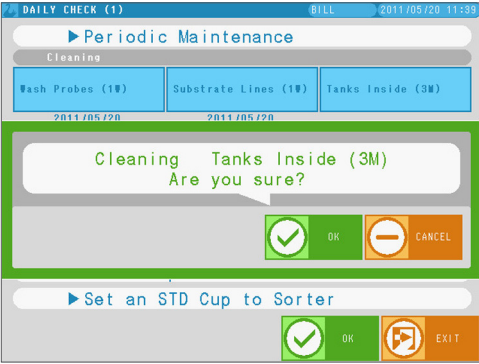
Weekly

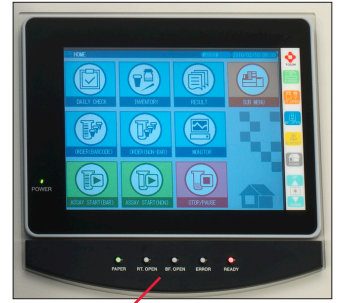
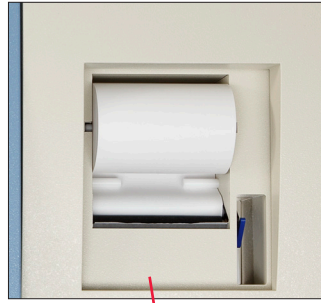
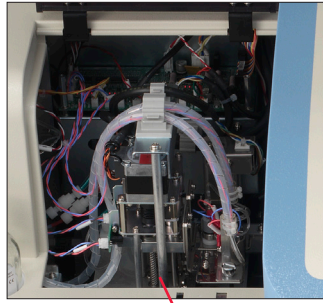


Monthly



Tri-Monthly





Substrate II

B/F Probes

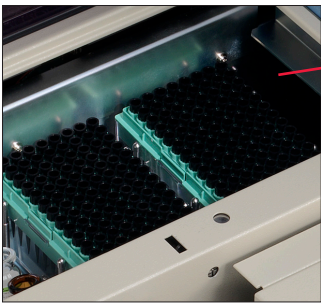
On-board
Printer

Touch Screen
Monitor



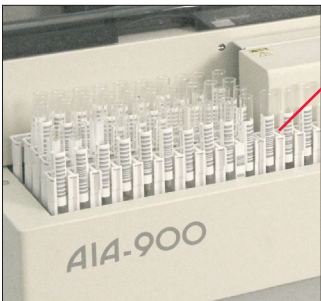
Secondary
Reagents

- Types: 100 mL & 5 mL
- Variable Configurations



Tips

- 2 Racks, 96 Tips
- 192 Tips Total

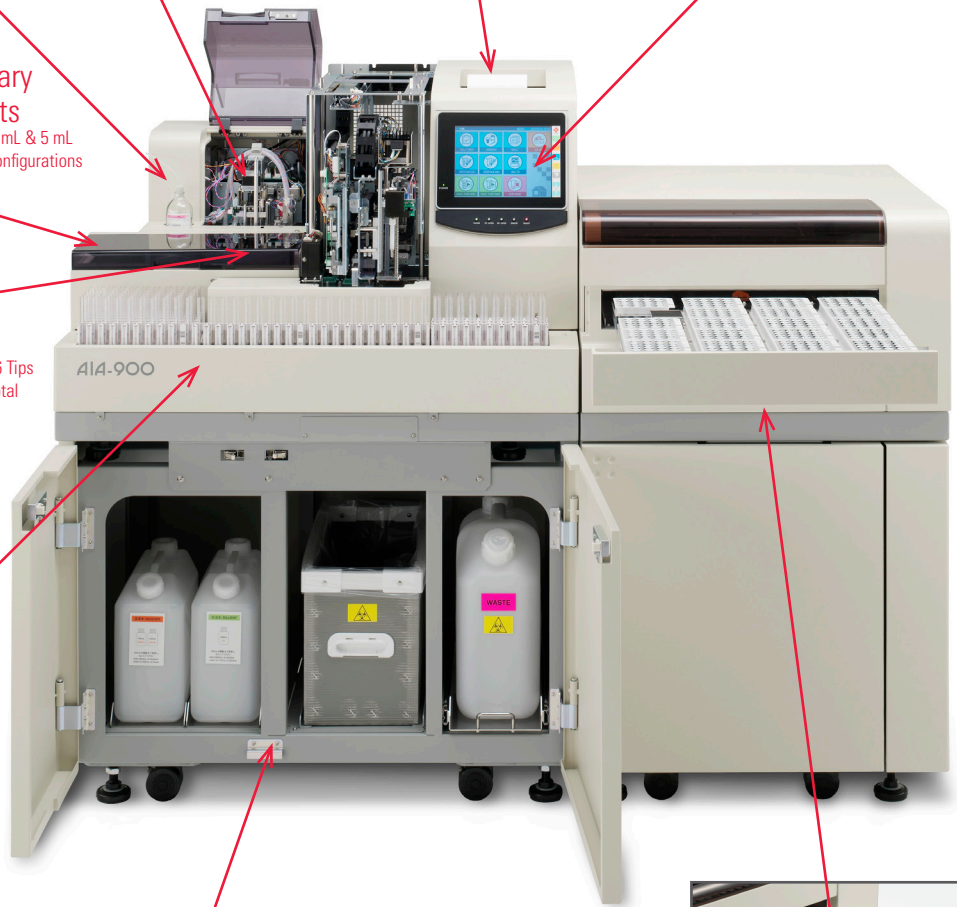


Sample
Loader

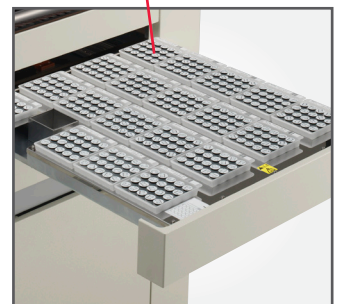
Load tubes for Sorter Models



Load cups and tubes for Loader Model



Self-contained reagent storage



Optional 19 Tray Sorter
9 Tray Sorter also available

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 \times 75 mm, 13 \times 100 mm, 16 \times 75 mm, 16 \times 100 mm (O.D. \times 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 Loader Model - W/D/H: 35.04" \times 26.18" \times 49.09"; 890 mm \times 665 mm \times 1247 mm AIA-900 with 9 Tray Sorter - W/D/H: 50.79" \times 26.18" \times 49.09"; 1290 mm \times 665 mm \times 1247 mm AIA-900 with 19 Tray Sorter - W/D/H: 59.84" \times 26.18" \times 49.09"; 1520 mm \times 665 mm \times 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