AIA®-900
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
Four Configurations for Different Sizes of Labs and Workloads

**AIA-900**

*Benchtop*
- 90 tests/hour throughput
- Load 10 racks on board
- Load up to 5 tests/patient

**Dimensions - W/D/H:**
- 40” x 26.18” x 30”
- 1016 mm x 665 mm x 762 mm
  *Dimensions include analyzer/sorter stand*

**AIA-900**

*Loader Model*
- 90 tests/hour throughput
- Load 10 racks on board
- Load up to 5 tests/patient

**Dimensions - W/D/H:**
- 35.04” x 26.18” x 49.09”
- 890 mm x 665 mm x 1247 mm
  *Dimensions include analyzer/sorter stand*

**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
  *Dimensions include analyzer/sorter stand*

**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
  *Dimensions include analyzer/sorter stand*
**Substrate II**

**Secondary Reagents**
- Types: 100 mL & 5 mL
- Variable Configurations

**Tips**
- 2 Racks, 96 Tips
- 192 Tips Total

**Sample Loader**

**Load tubes for Sorter Models**

**Self-contained reagent storage**

**B/F Probes**

**On-board Printer**

**Touch Screen Monitor**

**Load cups and tubes for Loader Model**

**Optional 19 Tray Sorter**
- 9 Tray Sorter also available
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 unchanged.

The AIA-900 requires minimal maintenance

Daily Maintenance

Weekly

Monthly
# AIA-900 Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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<tbody>
<tr>
<td>Principle of measurement</td>
<td>Fluorescent enzyme immunoassay (FEIA) method</td>
</tr>
<tr>
<td>Processing method</td>
<td>Fully automated continuous random access</td>
</tr>
<tr>
<td>Processing ability</td>
<td>Max. 90 tests/hour (ST reagent)</td>
</tr>
<tr>
<td>Specimen quantity</td>
<td>10 - 125 μL</td>
</tr>
<tr>
<td>Specimen clogging detection</td>
<td>Pressure detection method</td>
</tr>
<tr>
<td>Measurement condition</td>
<td>Reaction temperature: 37°C</td>
</tr>
<tr>
<td>Reaction time</td>
<td>Antigen-antibody reaction time: 10 minutes, 20 minutes, 40 minutes</td>
</tr>
<tr>
<td>Specimen dilution function</td>
<td>Dilution ratios between 2 and 1000 can be selected for each assay</td>
</tr>
<tr>
<td>Detection method</td>
<td>Fluorescent measurement (top-top method)</td>
</tr>
<tr>
<td>Number of sample rack sets</td>
<td>Max. 10</td>
</tr>
<tr>
<td>Number of samples and reagent cups</td>
<td>Max. 100</td>
</tr>
<tr>
<td>Specimen containers</td>
<td>13 × 75 mm, 13 × 100 mm, 16 × 75 mm, 16 × 100 mm (O.D. × length of test tube)</td>
</tr>
<tr>
<td>Specimen barcode</td>
<td>Supports CODE39, CODE128, ITF, NW-7, JAN/EAN/UPC, industrial 2of5, and COOP2of5</td>
</tr>
<tr>
<td>Sample tip</td>
<td>Dedicated tip</td>
</tr>
<tr>
<td>Number of installed sample tips</td>
<td>Max. 192 tips (96 tips/rack in 2 racks)</td>
</tr>
<tr>
<td>Number of reagent sets</td>
<td>Max. number of reagent vials: 12, Max. number of reagent bottles: 4</td>
</tr>
<tr>
<td>External output</td>
<td>RS232C</td>
</tr>
<tr>
<td>Power source/consumption</td>
<td>100 - 240 VAC, 50/60 Hz, 300 VA</td>
</tr>
<tr>
<td>External dimensions</td>
<td>AIA-900 Benchtop- W/D/H: <em>(Dimensions include revolving carousel)</em> 40” x 26.18” x 30”; 1016 mm x 665 mm x 762 mm</td>
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<td>Temperature</td>
<td>15 °C - 30 °C (degrees Celsius)</td>
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<tr>
<td>Humidity</td>
<td>40 % - 80 % R.H. (non-condensing)</td>
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