

# A600

## High Throughput Auto Sampler

Flat-6 Injection™ for Blazing Speed



### Brilliant In More Ways Than One

The A600 HTAS' (High Throughput Auto Sampler) design is as unique and revolutionary as Stratedigm's flow cytometers. A single, fully ceramic syringe pump with an integrated valve assembly allows for reliability, dynamic range, and precision far exceeding other conventional plate loaders. The A600's fluidics architecture keeps samples away from all valves and pumps, virtually eliminating carryover and dead volume. A proprietary overinject feature allows the A600 HTAS to deliver the entirety of the aspirated sample to the flow cytometer, enabling the complete analysis of rare samples, while the optional solid-state temperature control module protects the sample during long acquisitions. Additionally, the A600 comes standard with absolute volumetric cell counting.

### Speed You Require

The A600 HTAS is designed for speed of operation. Stratedigm's Flat-6 Technology™ enables aspiration and dispense through six independent probes working in concert, delivering unparalleled speed and precision through faster aspiration, decreased wash time, and reduction of redundant robot motion required to process a full micro titer plate.

### Ease of Use You Expect

The A600 HTAS is seamlessly integrated with Stratedigm's CellCapTure™ software, allowing for intuitive experiment design and the ability to use a variety of tubes and plates. In addition, CellCapTure™ allows for experiments to be designed for temperature and/or time based incubation studies. The presence of preset modes in the CellCapTure™ software enables new and experienced users alike to design optimal experiments with minimal training.

## Product Introductions

Stratedigm's A600 High Throughput Auto Sampler (HTAS) is more than just a high-speed plate loader; with six injection probes working in unison and an all-ceramic high precision pump, it delivers speed, functionality, and reliability beyond any other conventional plate loaders on the market. The A600 HTAS comes standard with sample prep and reagent mixing capabilities along with optional and programmable solid-state sample temperature control, sample incubation, and aspiration and offers injection volumes ranging from 5–400  $\mu$ L. Its proprietary design ensures that your entire sample is delivered to the analyzer with true zero dead volume capability. An integrated barcode scanner can also be added to keep track of your microtiter plates. The A600 HTAS can house twelve Eppendorf tubes in addition to a variety of different microtiter plate models for reagent/sample mixing and preparation. The A600 HTAS integrates seamlessly with any S1000 and SE520 series analyzer and offers advanced user defined programming via Stratedigm's CellCapTure™ software.

### Performance:

- Throughput: 96 wells < 25 min based on a 5 second acquisition
- Dead volume: zero dead volume design ensures no sample is wasted in internal fluid path
- Carryover: < 1% based on control beads
- Reagent mixing: up to twelve different reagents can be added to any well on a microtiter plate
- Sample volume: user adjustable via CellCapTure™ software from 5–400  $\mu$ L
- Wash volume: user adjustable via CellCapTure™ software from 10–500  $\mu$ L
- Absolute volumetric counting: <  $\pm$ 10% error

### Plate Compatibility:

- 24-well: flat and round bottom
- 96-well: U-bottom, V-bottom, flat bottom, and deep well
- 384-well: flat bottom
- Tubes: 12 or 36 Eppendorf tube adapter, 96 cluster tubes

### System Compatibility:

- Software: Stratedigm CellCapTure™ software
- Flow cytometer: any S1000 or SE520 series analyzer

### Options and upgrades:

- Temperature control: user adjustable via CellCapTure™ software from 8–40° C, using solid-state technology
- Incubation: user adjustable via CellCapTure™ software
- Barcode scanner type: integrated
- Sample aspiration and mixing: programmable suck and spit via injection probes

### Other Specifications:

- Size: < 11" W x 15" D x 13" H depending on upgrade options
- Weight: < 40 lbs depending on upgrade options
- Noise level: < 65 dBA
- Operating power: 100–240 VAC
- Operating temperatures: 60–86° F (15–30° C)