

Automation That Fits

AutoMate 800 and AutoMate 600 Sample Processing Systems



General Chemistry
Clinical Laboratory Automation
Clinical Information Systems
Molecular Diagnostics
Immunodiagnosics
Centrifugation
Disease Management
Hematology
Hemostasis
Flow Cytometry
Primary Care

When you need to improve lab efficiency, turn to the *AutoMate* for an automation system that fits your lab's unique requirements.

The *AutoMate* has everything you need to streamline pre- and post-analytical processes and position your lab for optimal performance and labor usage. Plus, with the *AutoMate*, your lab can accommodate greater workflow while posting dramatic gains in test result delivery.

- Single point of entry, to manage all tubes, from sample receipt to disposal
- Advanced, automated sample loading and sorting, to minimize manual handling
- Fully integrated centrifugation for faster test turnaround time with less variability
- Through-the-label sample volume detection
- Decapper module for maximum efficiency and safety
- Intelligent aliquotting and tube labeling, to eliminate manual sample preparation errors and ensure faster, more accurate secondary-tube preparation
- Intuitive software, to facilitate ease of use

Streamline Processes

Speed Test Result Delivery

Single Point of Entry

- Manages sample tubes from entry into the laboratory until disposal
- Centrifuge process for chemistry, immunoassay and coagulation testing
- Re-sorts samples for pending test routing or for storage, when samples have volume remaining
- Sorts stats to separate locations
- 16 dynamically-configurable rack locations for unparalleled sorting flexibility
- Loads instrument-specific racks

Sample Loading

- Easy-loading drawer offers convenient and continuous access to racks for loading samples, while robotic handlers safely and efficiently process samples through the *AutoMate*
- Dedicated stat input area enables priority processing for rapid test turnaround time
- Processes BD, Greiner and SARSTEDT tubes, 13 x 75 mm to 16 x 100 mm tubes
- Processes pediatric tubes, using 13 x 75 mm adapters
- Recognizes most standard bar codes in compliance with the Clinical and Laboratory Standards Institute (formerly known as NCCLS)



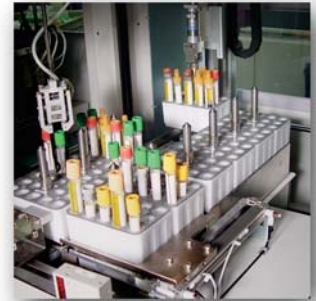
Sample Receipt

- Sample bar-code reader ensures positive patient sample identification and notifies the Laboratory Information System (LIS) of sample receipt
- Automated measurement of sample diameter and height ensures proper sorting and aliquotting



Centrifugation

- 56-tube capacity delivers throughput up to 300 centrifuged samples per hour
- Normal spin of 3,000g for five minutes, allowing identical processes for both coagulation and chemistry samples
- System automatically weighs each set of samples and balances the adaptors
- Selectable speed and time parameters accommodate a wide range of samples and testing requirements



Volume Determination

- Automated measurement of each sample's volume prior to dispensing into aliquot tube or for storage
- Automated measurement of plasma or serum volume ascertains whether all aliquots can be created



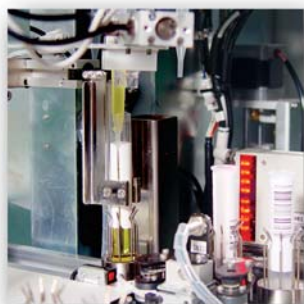
Decapping

- Designed for maximum efficiency and lab safety, to minimize exposure to biohazardous aerosols
- Compatible with rubber stoppers, plastic and screw-style caps from BD, Greiner and SARSTEDT
- "Smart" decapping: Caps are selectively removed for closed-tube sampling, based upon analyzer
- Caps are automatically dispensed into biohazard bag



Aliquotting**

- Processes up to 420 total samples per hour, including 140 primary and 280 secondary tubes
- Creates up to eight aliquots per primary tube
- Large tip volume allows drawing of the sample and subsequent multiple transfers to secondary tubes, improving performance
- “Intelligent” aliquotting transfers the proper volume for samples with single or multiple tests and detects clots
- Computerized prioritization of aliquots ensures most critical samples are created first, if sample volume is minimal
- Detects clots and routes samples for manual processing



Simple to Use

- Intuitive user interface
- Flags stats from routines



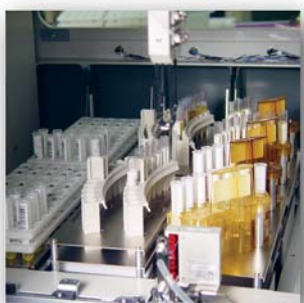
Trouble-Free Maintenance

- Online help to aid in routine maintenance and troubleshooting
- Storage bin allows user to load 5 mL tips in bulk, quickly and easily**
- Load secondary 13 x 75 mm or 13 x 100 mm tubes (defined at installation) in bulk via pull-out drawer**
- Replace bar-code label stock for aliquot tubes via easily accessible slide-out bin; user can define contents of the secondary-tube label**



Sorting to Sample Racks

- “Open” system architecture sorts to generic 50-tube racks or analyzer racks, accommodating transfers to instruments, other lab sections or send-out test requirements
- 800-sample capacity and up to 16 generic racks, which can be subdivided to create up to 150 sorting locations



Re-Sorting to Sample Racks

- Allows re-sorting of samples after analysis for routing to next analyzer or sample storage; sample routing determined by duration, temperature or user-defined destination

Easy to Install

- Easy installation, requires minimal lab remodeling
- Allows “dynamic” rack configuration to accommodate workload changes
- LIS interface/ASTM analyzer-like interface
- Accepts multiple tube sizes and styles as well as multiple bar-code symbologies

** Only for AutoMate 800 (Aliquotting only available for AutoMate 800)

AutoMate Sample Processing System Specifications



BD Tubes



Greiner Tubes



SARSTEDT Tubes



Pediatric Tubes

Throughput

Centrifuge
300 samples/hour
Aliquotter (1 + 2 aliquots)
420 samples/hour
(140 primary, 280 secondary)

Sample Container Types

BD Hemogard, Conventional/Rubber
and Microtainer
Greiner (non-ridged)
SARSTEDT

Sample Container Sizes

BD & Greiner
13 x 75 mm
13 x 100 mm
16 x 100 mm
Greiner
Pour Off Screw Cap
13 x 75 mm
SARSTEDT
15.3 x 92 mm
13 x 90 mm

Environmental Requirements

Heat output: 3,212 kcal/hr or 15,000 BTU/hr
Room Temperature: +18-30°C (64-86°F),
within a 2°C (3.6°F) change in 30 minutes
Relative Humidity: 25 to 85% non-condensing

Laboratory Information System Integration

LIS Interface
ASTM
Dynamic download or host query

Dimensions and Weight

AutoMate 800 System
Height: 167.6 cm (66 in)
Length: 405.4 cm (159.6 in)
Depth: 90 cm (35 in)
Weight with Centrifuge: 1,167 kg (2,573 lb)
AutoMate 600 System
Height: 167.6 cm (66 in)
Length: 360.4 cm (141.9 in)
Depth: 90 cm (35 in)
Weight with Centrifuge: 1,020 kg (2,248 lb)
Console
Height: 48 cm (18.8 in)
Length: 50 cm (19.3 in)
Depth: 40 cm (15.7 in)
Weight: 40 kg (86 lb)

Space for
FSC Logo

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