

# Automation That Fits

## AutoMate™ 800 Sample Processor



General Chemistry

**Lab Automation**

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 800 for an automation system that fits your lab's unique requirements.

The AutoMate 800 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 800, 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

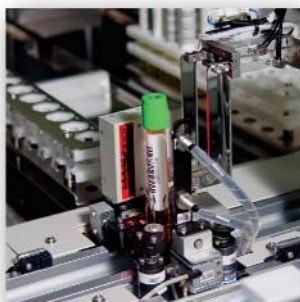
### Sample Loading

- Easy-loading drawer offers convenient and continuous access to racks for loading samples, while robotic handlers safely and efficiently process samples through the AutoMate 800
- 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)



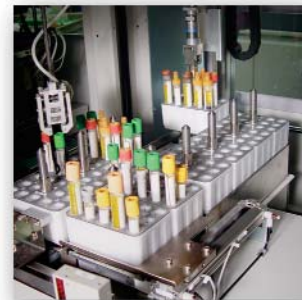
### Sample Receipt

- 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



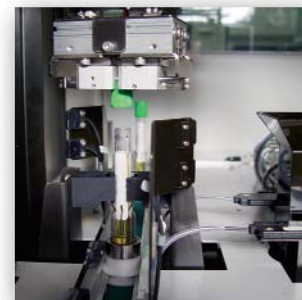
### Volume Determination

- 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



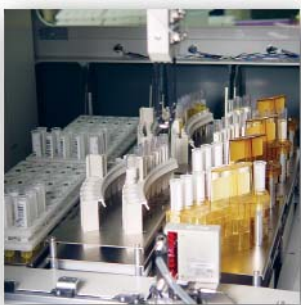
## Trouble-Free Maintenance

- 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 tubes 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

# AutoMate 800 Sample Processor 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, within a  
2° change in 80 minutes  
Relative Humidity: 25 to 85% non-condensing

## Laboratory Information System Integration

LIS Interface  
ASTM  
Dynamic download or host query

## Dimensions and Weight

System  
Height: 167.6 cm (66 in)  
Length: 405.4 cm (159.6 in)  
Depth: 90 cm (35 in)  
Weight with Centrifuge: 800 kg (1760 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)

\*BD, BD Hemogard, Microtainer, Greiner, and SARSTEDT are registered trademarks of their respective owners.



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