

## SIRRUS® PRODUCT SPECIFICATIONS

### Throughput

- 400 tests/hr with ISE
- 240 tests/hr photometric

### Reagent System

- 36 positions for either R1 or R1/R2 reagents
- On-board reagent cooling temperature:  $10 \pm 2^\circ \text{C}$
- Liquid, ready-to-use reagents
- 30-day on-board stability for most reagents
- 30-day calibration stability for most reagents
- Reagent probe with automatic level detection
- Automatic inside and outside probe washing after each reagent addition

### Sampling Unit

- Sample type: Serum, plasma, urine, CSF, hemolysate
- 45 patient positions on sample tray (30 primary tubes) including 5 STAT positions
- Sample containers accepted
  - Standard cup
  - Blood collection tubes 5 mL (13 x 75 mm), 7 mL (13 x 100 mm, 16 x 75 mm), 10 mL (16 x 100 mm)
- Integral bar code reader for primary tubes
- Sample volume: 3-30  $\mu\text{L}$
- Auto-dilution capability
- Auto-rerun capability
- STAT interruption permitted during analysis
- Sample probe with automatic level detection
- Automatic inside and outside probe washing after each sample addition

### Reaction Unit

- 60 semi-permanent plastic cuvettes
- $37^\circ \pm 0.1^\circ \text{C}$  reaction temperature
- Automatic 10-step cuvette washing system
- Cuvette optical length: 8 mm

### Optical Absorption Measuring Unit

- Direct measurement of reaction cuvette
- Monochromatic and bichromatic measurement
- Wavelength: (12 discrete) 340, 380, 405, 450, 505, 546, 570, 600, 660, 700, 750, 800 nm
- Cell blank reading corrected after each cuvette washing
- Tungsten halogen lamp, 2000 hours
- Diffraction spectrophotometer with concave grating
- Silicon photo-diode detectors

### Ion Selective Electrode (ISE) Unit

- Na, K, Cl test items
- Total of 45 seconds test time to perform all three tests
- Low sample volume: 60  $\mu\text{L}$
- 24-hour ISE calibration stability

### Software

- Windows® XP-based
- LIS compatible (RS-232C bi-directional system interface)
- Cumulative QC: Westgard Multi-rules
- Audible voice alerts
- Water supply, wash solutions and waste level tank alarms

### Maintenance / Service

- Less than 5 minutes hands-on daily maintenance
- Less than 5 minutes hands-on monthly maintenance
- 24/7 toll-free phone assistance
- 1-year limited service warranty (covers all non-consumable components)

### Physical Attributes

- Dimensions: 31.5" W x 25.2" D x 20.5" H
- Weight: approx. 210 pounds
- Power Supply: AC 115V 50/60Hz
- Rated Power Consumption: 600VA
- Water supply/drain: 3.5 liters/hour de-ionized water

*Specifications subject to change without notice.*

# SIRRUS®



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# SIRRUS®

## Serious medicine for your lab.

### Serious flexibility.

Stanbio offers a full range of bar coded, liquid, ready-to-use reagents for Clinical Chemistry, Proteins, Therapeutic Drug Monitoring and Drugs of Abuse. With positions for 36 reagents and the ability to configure open channels for your esoteric testing needs, SIRRUS provides a comprehensive solution tailored to meet the demanding needs of your laboratory.

### Serious convenience.

SIRRUS automatically reads and manages bar coded reagent bottles and sample tubes. Most reagents have 30-day on-board stability to minimize waste. The intuitive Windows®-based software screens make learning and operating SIRRUS easy and quick.

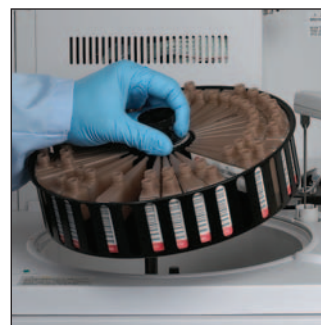
### Serious business.

SIRRUS can run at a blazing 400 tests per hour. Dual reagent probes and a dedicated sample probe translate into higher throughput and faster patient turn-around time. The increased efficiency and use of reusable cuvettes translate into lower costs and thus higher profits per test.



### Windows®-Based

- Intuitive screens make the system easy to learn and use
- Stores over 6 months patient data
- Auto-rerun with Auto-dilution
- Voice message alerts



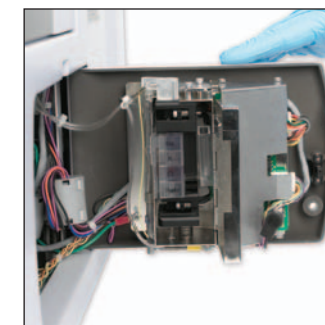
### Reagent Tray

- 36 reagent positions (either R1 or R1/R2)
- Bar coded, liquid, ready-to-use reagents
- Continual 24-hour on-board cooling ( $10 \pm 2^\circ \text{C}$ )



### Sample Tray

- Adaptive for various primary tube sizes (5, 7, 10 mL)
- 45 patient positions per tray (30 primary tubes)
- Integral bar code ID reader
- STAT interruption permitted during analysis



### Integrated ISE Module

- 24-hour calibration stability
- Single-step calibration and electrode cleaning
- Easy servicing with individual electrode replacement



### Tornado Mixing System™

- Sample and reagent mixing is a breeze using our proprietary air pressure mixing technology
- No stirrer probe contamination for carryover-free results



### Geyser Wash™

- Geyser Wash™ system puts the cuvettes in HOT water!
- Saves money on each test versus disposable cuvette systems
- Thorough 10-step cuvette washing process including alkaline solution, acidic solution and HOT water
- Cuvettes made of a special plastic to avoid carryover, especially for latex reagents