

The science of knowing shapes the art of living.



## **VITROS<sup>®</sup> 250 Chemistry System**

*VITROS<sup>®</sup> Systems have a deep-rooted history of exceeding the laboratories' expectations for result integrity and system performance. VITROS<sup>®</sup> MicroSlide<sup>™</sup> Technology continues to set new standards for reportable result efficiency with superior assay precision and streamlined testing procedures that eliminate the labour-intensive or time-consuming processes most alternative methods often require. Coupled with unique automation capabilities, minimal maintenance requirements and simplicity by design, VITROS<sup>®</sup> remains the system of choice for laboratories focused on quality.*

# The VITROS<sup>®</sup> 250 Chemistry System

is a flexible system that can meet requirements in multiple environments-medium sized hospitals, backup in large hospitals, clinics and satellite locations. With a throughput of up to 250 results per hour, the VITROS<sup>®</sup> 250 offers a wide range of menu. The VITROS<sup>®</sup> 250 also features on-board dilution, and can be stand alone or placed in an automation workcell.

**No Test Preparation:**  
Barcoded slide cartridges, of any lot number, are loaded in one easy step. No reagent preparation is required

**Sample Management Center with SMART Metering™:**  
Patient sample and reference fluid (for ISEs) are automatically metered on test slides

**Sample Loading:** Samples are placed in one of the four universal sample trays (any size primary collection tube or sample cup)



VITROS



**Operator Interface:** Patient information and testing parameters are easily performed using the system's touch screen



**Daily Maintenance:**  
Used slides are collected for daily disposal.  
No infectious effluent or drain

## Product Benefits

### **Revolutionary MicroSlide™ Technology**

- Differential clinical utility in various disease states
- No preparation of reagents for use
- Patented spreading layer to minimise interferences from hemolysis, lipemia, & bilirubin
- Small sample size requirements (5.5 µl to 11 µl)

### **Versatile and Productive**

- Up to 250 results per hour
- Primary tube sampling with SMART Metering™
- Automated on-board dilution
- Optional positive patient identification via barcode scanner

### **Operating Efficiency**

- Easy-to-use Touchscreen operator Interface
- Flexible, continuous, random access processing for manual, STAT or automated testing
- Common operator interface with other VITROS® Systems
- Simplicity by design

### **Ease of Use**

- The VITROS® 250 doesn't require complex training - simple procedures and on-analyzer help menus allow round-the-clock availability to all members of the lab staff

### **Sample Handling Integrity**

- Unique sample processing capabilities like disposable tips, true bubble and clot detection insure confidence in results

### **Quality Control & Calibration**

- Quality control procedures are required just once each day and calibration stability up to 6 months

### **Environment Friendly**

- No plumbing, no drains or vents, no deionized water or gas is required; all "waste" is contained in used test slides which are disposed daily

### **Workstation Productivity**

- The VITROS® 250 is the ideal choice for your routine or dedicated STAT testing, and can complement other VITROS® Chemistry Systems when lab workflow spikes

Ortho Clinical Diagnostic

# Specifications

**Measurement Principles:** Potentiometric (direct ISE), Colorimetric/Rate, Immuno-rate

**On-Board Test Capacity:** 3600

**Throughput Rate:** Up to 250 results per hour

**Sample Types:** Serum, Plasma, Urine, CSF

**Sample Volume:** 10 - 11  $\mu$ L

**Sample Capacity:** 40 samples (4 trays of 10 samples)

**Program Capability:** 5000 samples

**Time for single Result:**  $\approx$  2.5 - 7 minutes

Potentiometric:  $\approx$  2.5 minutes

Colorimetric:  $\approx$  5 minutes

Immuno-rate:  $\approx$  7 minutes

**Sample Containers:** 10mL, 7mL, 5mL, 2-4mL, Collection Tubes, 1mL Microtube, Microsample cup and .5mL & 2mL cups

**Barcode Sample Identification:** Autodiscriminates among all standard symbologies, including Code 128, Code 39, Interleaved 2 of 5, Codabar and UPC. Barcodes can be of varying lengths

**Sample Management:** Clot Detection, Bubble Detection, Liquid Level-Sensing (Pressure Transducer), Short-Sample Detection

**Operator Interface:** Touchscreen Monitor, On-Board User Guide

**Automation Technology:** Field Upgradable, includes Automatic Tip Loading and Deep Tube Sampling

**Calibration:** Extended. Multiple Lots Supported

## Environment

**Average Heat Output:** 4, 100 BTU

**Operating Temperature:** 15 - 30°C (59 - 86° F)

**Ambient Humidity:** 15 - 75% RH

**Altitude:** Up to 8,000 feet

**Plumbing:** No water or drain required

## Electrical

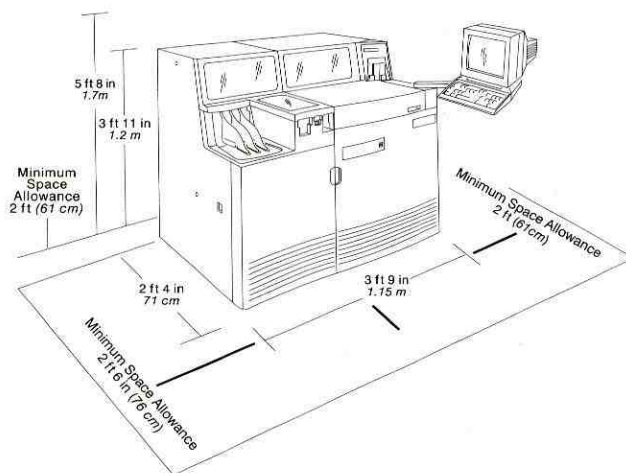
**Line Voltage:** Dedicated 20 - ampere, nominal 220 - 240 V; single phase AC

**Line Frequency:** 50 Hz

## Communications

3 RS 232 serial ports

## Dimensions and Space Requirements



## Full System Support

Investing in a VITROS® Chemistry System assures you of reliable instrumentation, high-quality reagent performance, results integrity and full system support from Ortho Clinical Diagnostics unparalleled service organization.

## Test Menu

- |                          |                                 |                   |
|--------------------------|---------------------------------|-------------------|
| ● Albumin                | ● Cholinesterase                | ● Phenytoin       |
| ● Alcohol                | ● CK                            | ● Phenobarbital   |
| ● ALKP                   | ● CKMB                          | ● Phosphorus      |
| ● ALT (SGPT)             | ● Creatinine                    | ● Potassium       |
| ● Amylase                | ● Digoxin                       | ● Total Protein   |
| ● Ammonia                | ● GGT                           | ● Salicylate      |
| ● AST(SGOT)              | ● Glucose                       | ● Sodium          |
| ● Total Bilirubin        | ● dHDL                          | ● Theophylline    |
| ● Conjugated Bilirubin   | ● Iron                          | ● TIBC            |
| ● Unconjugated Bilirubin | ● Lactate                       | ● Triglycerides   |
| ● Delta Bilirubin        | ● LDH                           | ● Urea (BUN)      |
| ● CRP                    | ● Lipase                        | ● Uric Acid       |
| ● Calcium                | ● Lithium                       | ● Urine Protein   |
| ● Carbon Dioxide         | ● Magnesium                     | Additional Fluids |
| ● Carbamazepine          | ● Paracetamol/<br>Acetaminophen | ● Urine           |
| ● Chloride               |                                 | ● CSF             |
| ● Cholesterol            |                                 |                   |

Reprinted by:

Ortho Clinical Diagnostics

32/33 A, Deonar Village Road Deonar, Mumbai 400 088, India.  
Tel: +91 22 6787 9300 Fax: +91 22 6787 9333  
Web: www.orthoclinical.com