

VITROS® XT 3400 Chemistry System¹ Specifications

Measurement Principle:

- Colorimetric/Rate
- Potentiometric (direct ISEs)
- Immuno-rate
- Digital Imaging Measuring Technology

Reagents:

- No preparation, no mixing or reconstitution required for Cartridges, Electrolyte Reference Fluid (ERF), or Immuno-Wash Fluid (IWF)
- Onboard stability up to 35 days
- Shelf life stability up to 18 months from date of manufacture
- Onboard test capacity:
 - Up to 5,340 tests (up to 10,680 with XT MicroSlides)
 - 97 reagent/diluent positions:
 - 89 MicroSlide Cartridges (18, 50, 60, 100, or 120 tests/cartridge)
 - 8 Diluent Bottle/Cup Positions

Consumables:

- VersaTips and Mixing Cup Arrays can be replenished without interrupting system operation. Reagents replenished without interrupting incubation
- Onboard capacity:
 - VersaTips: 315
 - Mixing Cups: 50
 - ERF: 800 tests
 - IWF: 300 tests

Calibration:

- Up to 25 lots per assay with automatic lot switching
- MicroSlide assays stable up to lot change
- Random-access calibration
- Bar-coded calibrators for MicroSlide assays

System Startup:

- 24-hour ready mode
- No manual primes, purges, washes or tubing maintenance
- No daily calibrations or calibration checks

Time for Single Result:

- Potentiometric: ~2.5 minutes
- Colorimetric: ~6 minutes
- Immuno-rate: ~9 minutes
- Real-time results data stream to LIS available

Throughput*:

- Maximum theoretical throughput without XT slides: up to 755 tests per hour (TPH)
- Maximum theoretical throughput with XT slides: up to 1,130 TPH
- Actual throughput will vary by test mix and sample workflow

Sample Types:

- Serum, Plasma, Urine, CSF

Sample Volume:

- Per assay: 2.7µL

Sample Capacity:

- Continuous load and unload
- 80 samples in Universal Sample Trays
- Priority STAT tray processing capability

Sample Indices using MicroSensor Technology

- Detection and flagging of results affected by common interferences (Hemolysis, Icterus, Turbidity)
- No Reagents or additional sample volume requirements.
- No additional consumables.
- No impact on system workflow

Sample and Reagent Management Incorporating IntelliCheck® Technology:

- Single-use Tip Metering verifies sample aspiration and dispenses, eliminates carryover and addresses cross-contamination concerns
- Clot, bubble, low and high viscosity, thin layer fluid and short sample detection
- Save-the-Sample Clot/Bubble Management
- Liquid level sensing
- MicroSlide and Mixing Cup Array Dispense Verification
- Diluent aspiration and dispense verifications
- Onboard IntelliReport provides complete traceability and documentation of result quality

*Theoretical maximum. Individual results may vary.



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Sample Containers:

- Universal Sample Trays accommodate:
 - 5mL, 7mL, 10mL collection tubes
 - Micro-collection containers
 - 0.5mL and 2.0mL cups

Sample Bar Code Identification:

- Autodiscriminates by simultaneously recognizing all standard symbologies:
 - Code 128
 - ISBT 128
 - Code 39
 - Codabar
 - Interleaved 2 of 5

Dilution Capabilities:

- Auto reflex dilution
- Operator requested dilution
- Off-board dilution calculation

Automatic Reflex Testing (based on user-configuration):

- Reflex to different assays
- Reflex to the same assay

Operator Interface:

- Color-coded graphical user interface
- Ergonomic flat, low-glare, LCD, 17-inch touchscreen monitor
- Numeric keypad on monitor
- Detached keyboard for maximum flexibility
- Onboard documentation and animated Help (V-Docs)
- Onboard maintenance documentation

Data Storage:

- Read/write SSD drive for data input and archiving
- USB flash drive (memory stick) capabilities
- 10,000 sample programs
- 25,000 samples with ability to archive and retrieve through CD-ROM or USB flash drive

System Dimensions:

- Width: 1.47 m/58.0 inches
- Depth: 0.87 m/34.2 inches
- Height: 1.33 m/52.6 inches
- Weight: 523 kg/1150 pounds

Power:

- Line Voltage: one dedicated 15 amp power line, nominal 100-240V AC
- Line Frequency: 47-63 Hz

Environment:

- Operating temperature: 15°-30°C/59°-86°F
- Ambient relative humidity: 15%-75% RH
- Altitude: up to 2,439 m/8,000 feet
- Plumbing: No water or drain required; self-contained onboard waste management eliminates special requirements for off-board plumbing

Communications:

- Laboratory Information System (LIS):
 - Bidirectional interface for ASTM and HL7 protocols
 - Broadcast download and Host Query
 - Results can be uploaded individually, as a group, or as an entire sample
- Laboratory Automation System (LAS):
 - AT ready at launch
 - 1 LAS interface, point-in-space
- Ports:
 - RS 232 serial ports (for LIS and LAS)
 - USB ports (for printers)
 - Ethernet ports (for e-Connectivity®, LIS)

e-Connectivity® Interactive System Management:

- Using the facility's Internet connection or DSL, SSL technology establishes a secure connection between system and Ortho Clinical Diagnostics Technical Support to enhance troubleshooting and increase uptime
- Automatic two-way data exchange to automatically send and retrieve data
- Automatic download of system software updates
- Remote connectivity provides the ability to enable remote diagnostics and remote control operation
- Enhance uptime with predictive alerts

Acoustic Noise

- Idle: 57.7dB
- Operating: 58.9dB

VITROS[®] XT 3400
Chemistry System

1. Availability is subject to local regulatory requirements

Not all products are registered or for sale in all markets; future availability cannot be guaranteed.

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