

ABX Pentra 400



A Flexible Instrument Designed for All Your Chemistries & STAT Testing

Fast and Simple Integration



- ▶ Space-saving compact instrument
- ▶ Uni / bi-directional connection with integrated Query mode
- ▶ Intuitive program, simple and user friendly touch screen
- ▶ Packaging designed and optimized for reagent usage
- ▶ On board Q.C. reports, maintenance and reagent logs, user manual

Total Automation of all Routine and Special Testing



- ▶ Sampling on whole blood, serum, plasma or urine
- ▶ Sample pre-treatment (HgbA1C cyclosporin, etc.) directly in the reaction cuvettes
- ▶ Automatic sample dilution from 0 to 1/22,500
- ▶ Automatic calibrator dilution in direct and indirect mode
- ▶ Dedicated channels, for a very wide range of applications (Research, industry, etc.)
- ▶ > Reaction time from 12 sec to 20 min
- ▶ > Flexible test configuration (up to 7 reagents per method)

High Quality Results



- ▶ **Single use cuvettes**
 - > No risk of cross-contamination
 - > Can perform the most sensitive tests (cyclosporin, copper, calcium, zinc, homocystein, etc.)
 - > Optimal automation of all latex assays
- ▶ **Spectrophotometer with holographic grating technology**
 - > Choice of 15 wavelengths (mono- or bi-chromatic) from 340 to 700 nm
 - > Maximum precision and reliability

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Technical Specifications



General Description

- Analysis Method Types:
 - Spectrophotometry: Colorimetry and Turbidimetry,
 - Potentiometry: Direct (Serum or Plasma) and Indirect (Urine)
- Up to 55 assays on board
- Optional ISE Module (Na+, K+, Cl-)
- Maximum Throughput: 420 tests/hr

Sample Handling

- Sample Capacity: 6 racks with 10 sample positions for primary tubes or cups
- Positive Sample Identification: Integrated Barcode Reader and Sample Tube Detector
- Sample Probe: level, clot and crash detection
- Sample Collection Format: 2, 3, 4, 5, 7 and 10ml (diameter: up to 16mm)
- Sample Specimen: Serum, Plasma, Urine, CSF, Whole Blood, Homogeneous Fluids
- Sample Volume: 2 to 380 µL
- Automatic Sample Dilution: from 1/2 to 1/22,500
- Automatic Post Concentration: from x2.0 to x10.0

Calibrator/Control Handling

- Calibrator/Controls Positioning on Sample or Reagent Tray
- Automatic Standard Dilution Series:
 - Dilution Factors: Main Direct 1/2 - 1/150
 - Dilution Factors: Main Indirect 1/2 - 1/150⁸

Reagent Handling

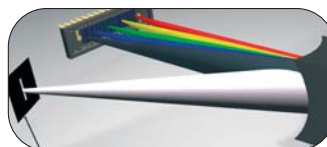
- 52 Reagent positions on-board:
 - 44 in a closed refrigerated area (2-10°C),
 - 8 at room temperature
- Positive Reagent Identification: Integrated Barcode Reader
- Reagent Probe: Level Detection and Preheating
- Reagent Management with Cassettes
 - Automated Reagent On-board Stability Check plus Test Countdown
- Reagent Volume: from 2 to 600 µL

Reaction System

- Reaction Volume: 150 to 600 µL
- Reaction Temperature: Air bath at 37°C
- Photometer Reaction Cycle: 12 seconds
- Mixing with Teflon-coated Stirrer
- Reaction Time: 1 to 100 cycles
- Disposable Acrylic Cuvettes
- Automatic Cuvette Changer
- Cuvette Capacity: 36 segments (432 cuvettes)
- 7 Integrated Algorithms

Optical System

- Tungsten-halogen Lamp
- Measurement principle
 - Bi-chromatic light absorbance
 - Choice of 15 wavelengths from 340 to 700 nm
 - Wavelengths selection with holographic grating technology
- Sensor: Photo diode array
- Optical Linearity
 - 2.5 A at 340nm; 3.0 A at other wavelengths



Computer and Software Specifications

- Operating System: Windows XP
- Data Processing:
 - 12 inch Colour LCD Touch Screen
 - Database Capacity; 100,000 test results
 - Processor: 850 MHz
 - RC 232C: Patient results, QC to LIS with ASTM Protocol
- Integrated Validation Station
- Quality Control Management: Levey Jennings, Automatic QC
- Logs:
 - Reagents, Quality Control, Calibration
 - Applications, Maintenance, Flags and Alarms
- Interactive Help (HTML) Format
- Back-up Cassettes
- On board users manual

Physical Specifications

- System Size: 40"x28"x25"
- System Weight: 264 lbs.
- External Cooling Unit Size: 12"x17"x16" (W/L/H)
- External Cooling Unit Weight: 77 lbs.
- Laser Printer
- Sound Level <66 dBa
- Operating Temperature: from 15 to 32° C
- Operating Humidity: from 20 to 85%
- Total Power Requirements (with Printer): 1000 VA
- Water: De-ionized/Distilled Water – 10L Tank
- Water Specifications: Resistivity > 5 MegOhms Conductivity < 0.2 µS/cm

Certifications

- IEC 61010-1
- CSA-C22.2 No.1010-1
- UL 61010A-1
- EN 61326
- EN 61000-3-2
- EN 61000-3-3

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Diagnostics

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