

ABX Pentra 400 Chemistry Analyzer



OVERVIEW

- 55 on-board assays
- Innovative cassette format
- Integrated work station and validation station
- Touch screen
- Real-time viewing of your workflow

FEATURES

- 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 test/h
- FDA cleared

SAMPLE HANDLING

- Sample Capacity: 6 racks with 10 sample positions for primary tubes or cups
- Continuous loading
- Positive Sample Identification: Integrated Barcode Reader and Tube Presence Detector
- Sample Integrity: Level, Shock and Clot Detection
- Sample Collection Format: 2, 3, 4, 5, 7 and 10 mL (diameter: 16mm)
- Sample Specimen: Serum, Plasma, Urine, CSF, Whole Blood, Homogeneous Fluids

- Sample Volume: 2 to 380 μ L
- Automatic Sample Dilution: from 1/2 to 1/22,500
- ISE: 10 μ L (Indirect) or 65 μ L (Direct)
- Automatic Post Concentration: from x2.0 to x 10.0
- Automatic Re-run

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 with automatic back-up
- Reagent Volume: from 2 to 600 μ L

REACTION SYSTEM

- Reaction Volume: 150 to 600 μ L
- 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 Calculation Algorithms

Contact Us for More Information:

- info@techneal.com
- 909-465-6325
- www.techneal.com



ABX Pentra 400 Specifications

PHYSICAL

System Size:	40" x 28" x 25" (W x L x H)
System Weight:	264 lbs
External Cooling Unit Size:	12" x 17" x 16" (W x L x H)
External Cooling Unit Weight:	77 lbs
Printer:	Laser printer
Sound level:	< 60 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:	<ul style="list-style-type: none">• Resistivity > 5 MegOhms• Conductivity < 0.2 µS/cm

Optical System

Tungsten-halogen Lamp

Measurement Principle:	<ul style="list-style-type: none">• Bi-chromatic light absorbance• Choice of 15 wavelengths from 340 to 700 nm• Wavelength selection with holographic grating technology
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COMPUTER & SOFTWARE

Operating system:	Windows XP
Data processing:	<ul style="list-style-type: none">• 12 inch Color LCD Touch Screen• Database Capacity: unlimited results• Processor: 600 MHz• RC 232C: Patient results, QC to LIS with ASTM protocol

Integrated Validation Station

Quality Control Management:	Levey Jennings, Automatic QC, Default controls and Westgard rules
Logs:	<ul style="list-style-type: none">• Reagents, Quality Control, Calibrations• Applications, Maintenance, Sequencing, Flags and Alarms

Export of archived data:	USB key
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Audible alarms:

Interactive Help:	HTML Format
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Sensor:	Photo diode array
Optical Linearity:	2.5 A. at 340nm; 3.0 at other wavelengths

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