ABX Pentra 400
Clinical Chemistry System

Up to 420 tests/hour
55 Assays
Validation Station
ABX Pentra 400 is an extremely compact Clinical Chemistry benchtop analyzer. Its great autonomy with continuous loading provides enhanced productivity in a user-friendly environment.

- Up to 420 tests per hour with the ISE module
- 55 on-board assays with back-up availability
- Innovative cassette format
- Integrated work station and validation station
- Touch screen interface
- Real-time follow-up of your workflow

Reagent Management
- Barcoded cassettes
- Optimized test packaging
- Automated reagent inventory and back-up
- Refrigerated zone with up to 44 positions
- Extensive onboard test menu
- User defined channels

Sample Management
- Positive identification
- Multiple sample checks using crash, level and clot detection
- Continuous loading
- STAT capabilities
- Automatic pre / post-dilution
- Automatic Re-run

Patient Management
- Work list generated by a manual entry or bi-directional connection
- Automatic validation based on user-defined rules
- Intelligent delta checking
- Panic values monitoring
- Unlimited patient report archiving
A concentration of technology for high quality results

**High-precision optical system**
To meet the requirements of highly accurate photometric measurements, HORIBA Medical has chosen the holographic grating technology developed in collaboration with HORIBA JOBIN YVON.

- Spectral unit offering 15 different wavelengths (mono or bi-chromatic)
- Optimized reading by continuous sweep
- Highly sensitive measuring (validated holographic technology)
- Space-saving design with maximum efficacy provided by the tungsten lamp

The holographic grating technology reduces light diffraction and provides a high signal / noise ratio which significantly increases the quality of measurement to produce precise and stable test results.

**Integrated ISE module**
Optional ISE module designed by HORIBA Ltd., Japan.

- 180 tests/hour
- Simultaneous analysis of Sodium, Potassium and Chloride
- Applications on Serum, Plasma and Urine

**High quality analytical technology**

- Single-use reaction cuvette
  To perform the most sensitive tests and all latex assays with high stability results.
- High performance mixer design
  For optimal mixing in minimum time without cross-contamination.
- Optimum test sequence setting program with incompatibility function
An extensive panel of liquid reagents
To simplify your workflow, HORIBA Medical presents a range of ready-to-use reagents in a single format.

Cassette packaging
- Mono / Bi reagent cassettes
- Ready-to-use
- Extended range
  > 52 parameters
  > General Chemistries / Specific Proteins

Easy management of your lab processes
- Random position on board
- Automatic traceability: lot number, expiration date...
- Automatic back-up
- Just one calibrator and two controls from routine analysis

Environment protection
Compact cassette packaging that respects the environment
- No more superfluous packaging
- Saves refrigerator space

Cost control
- Optimized number of tests per cassette
- Limited calibrations
- Re-run analysis according to laboratory defined rules
- Activity measurement thanks to the test counter option (1)
ABX Pentra 400 New Generation

“Enjoy Clinical Chemistry...
Let ABX Pentra 400 do the rest.”

The ABX Pentra 400 was designed and developed by HORIBA Medical to offer the best combination of AUTOMATION, FLEXIBILITY and SAFETY for the current clinical laboratory requirements.

SAVE VALUABLE TIME

Automatic reagent management
- Intelligent monitoring of reagent supply: the “workbalance function” assesses the stock on board relative to the workload requirements (1)
- Use limit date and Calibration validity checks

Real-time work flow follow-up
- Control all your operations from the main screen (system, reagent and sample status)
- Dynamic display of the test results and sampling exceptions with the test review function (2)
- Multiple alarm sounds available

Reduced maintenance procedures
- Automatic daily maintenance
- Maintenance alerts
- Easy uploading of target values for calibrators and controls

SECURE DATA MANAGEMENT

Secured results validation
- Westgard multirule QC procedures with up to 3 default controls
- Automatic calibration factor check
- Selective flagging

Reliable traceability in compliance with CLIA requirements
- Operator login history / Reagents, Calibration and Maintenance logs
- Full patient results traceability: multi-format option for archives review, end of day patient reports
- Full QC program: Up to 12-month control history, Levey-Jennings and Statistics (3)
- Easy export of archived data (USB key)
ABX Pentra 400
Clinical Chemistry system by HORIBA Medical