

ABX Pentra 400

Clinical Chemistry System



Up to 420 tests/hour
55 Assays
Validation Station

Pentra 400



ABX Pentra 400

From routine to esoteric testing

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

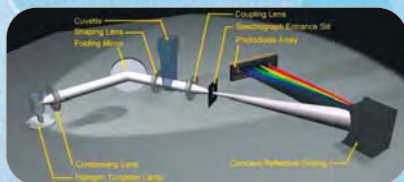
Patient Management



- ❖ 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 ABX 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 ABX 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 for 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)



1 - Test counter

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 ABX to offer the best combination of **AUTOMATION**, **FLEXIBILITY** and **SAFETY** for the current clinical laboratory requirements.



1 - Workbalance



2 - Test review



3 - Quality Control

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 workflow 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 procedure 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 ABX



HORIBAABX
Diagnostics

HORIBA ABX INTERNATIONAL (33 / 4 67 14 15 16) - HORIBA ABX - FRANCE (33 / 4 67 14 15 15) - HORIBA ABX - BENELUX (32 / 3 281 49 08) - HORIBA ABX - ITALY (39 / 06 51 59 22 1)
HORIBA ABX - SPAIN (34 / 91 353 3010) - HORIBA ABX - PORTUGAL (351 / 2 14 72 17 70) - HORIBA ABX - U.K. (44 / 1462 8144 00) - HORIBA ABX - POLAND (48 / 22 673 20 22) - HORIBA ABX - USA (1 / 949 453 0500)
HORIBA ABX - BRAZIL (55 / 11 55 45 1500) - HORIBA ABX - THAILAND (66 / 2 220 9000) - HORIBA ABX - CHINA (86 / 21 3222 1818) - GERMANY AXON LAB AG (49 / 7153 92260)
HORIBA ABX ONLINE : <http://www.horiba-abx.com>