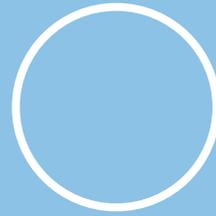


# ABX Pentra 400

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

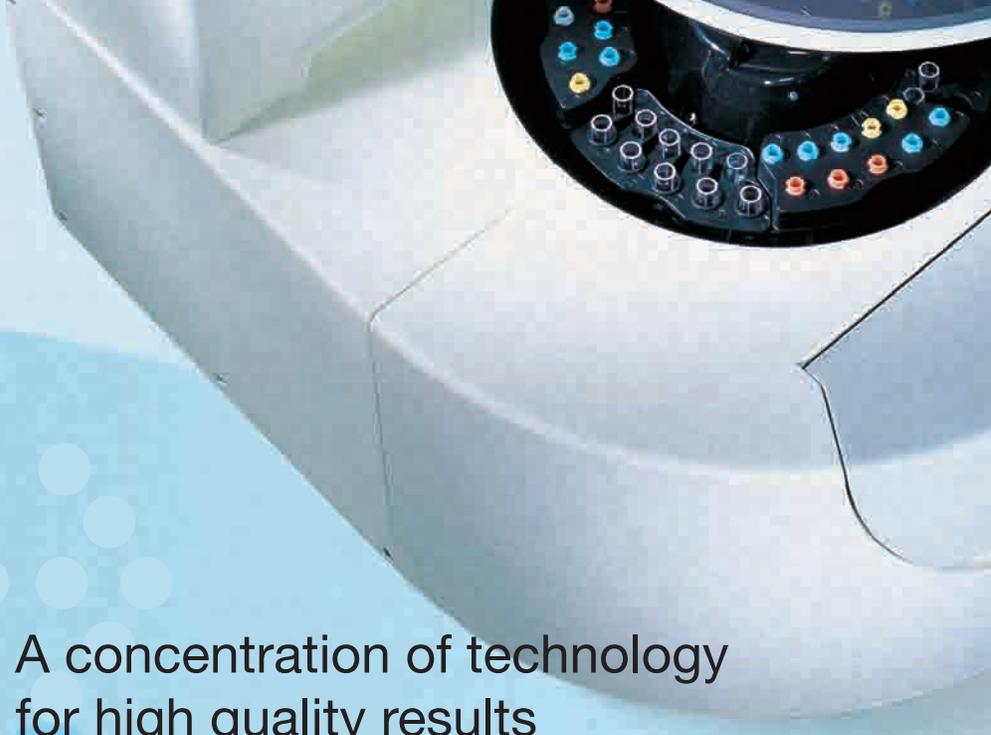


- ❖ Positive identification
- ❖ Multiple sample checks using crash, level and clot detection
- ❖ Continuous loading
- ❖ STAT capabilities
- ❖ Automatic pre / post-dilution
- ❖ Automatic Re-run

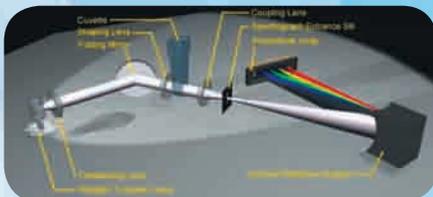
### Patient Management



- ❖ 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 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)



1 - Test counter

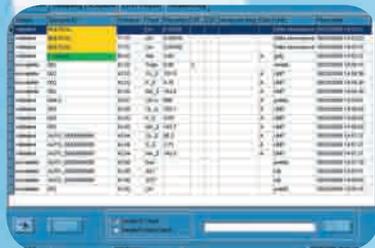
# ABX Pentra 400 **New Generation**

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

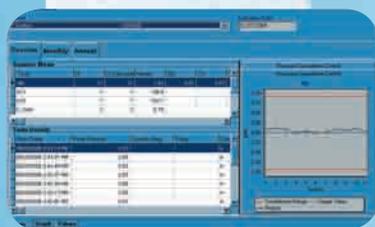
The ABX Pentra 400 was designed and developed by HORIBA Medical to offer the best combination of **AUTOMATION**, **FLEXIBILITY** and **SAFETY** for the current clinical laboratory requirements.



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 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)

# ABXPentra**400**

Clinical Chemistry system by HORIBA Medical



**HORIBA**  
Medical

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