





# Pentra 400

# From routine to specialty testing

One bench, not a whole lab No water system, drain, or special electrical requirements

- Up to 420 tests per hour with the ISE module
- 55 onboard parameters with back up availability
- Innovative cassette format

REAGE

- Integrated work station and validation station
- Touch screen interface
- Real-time follow-up
   of your workflow
   60 mL

Pentra

Efficient Sample and Reagent Management



### Sample management

- Positive identification
- Shock, level and clot detection
- Continuous loading
- STAT capability
- Automatic pre/post-dilution
- Automatic rerun



### Reagent management

- Barcoded cassettes
- Optimized test packaging
- Reagent test count down with automatic backup
- Extensive onboard test menu
- 40 user-defined channels

# Patented technology yields high quality results

#### HIGH PRECISION OPTICAL SYSTEM

HORIBA Medical has chosen HORIBA Scientific's patented holographic grating technology to generate highly accurate photometric results

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.

- Spectral unit offering 15 different wavelengths (mono- or bi-chromatic)
- Optimized reading by continuous sweep
- Highly sensitive detection (validated holographic technology)



# INTEGRATED

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 cuvettes produce highly sensitive and robust results
- High performance mixer design for optimal homogenization without cross-contamination
- Test sequence optimization programming minimizes sample to result turn around time

## Secure and simple patient data management



# Secure data management

- Secured results validation
- Reliable traceability in compliance with accreditation standards



### Patient management

- Worklist generated by a manual entry or uni-/bi-directional connectivity
- Automatic validation based on user defined rules
- Intuitive delta checking
- Monitors panic values

# An extensive menu of liquid reagents

#### Cassette packaging

- One and two reagent cassettes
- Ready-to-use
- Broad menu
- 52 reagents
- Enzymes / Substrates / Specific Proteins

# Easy management of your lab processes

- Reagent cassettes can be placed anywhere in the reagent compartment
- Automated traceability: Test name, lot number, expiration date, tests remaining, and unique cassette number
- Reagent compartment will be scanned and inventoried every time the reagent door is opened and closed
- Automated reagent cassette backup
- 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
- Minimal calibrations
- Rerun analysis according to laboratory defined rules
- Activity analytics with the test counter function(1)









(1) Test counter



The Pentra C400 is the evolution of the successful Pentra 400 system. This evolution provides a platform that is reliable and extremely user friendly, while ensuring quality results that are required in the laboratory environment.

## Save valuable time

#### Automatic reagent management

- Intelligent monitoring of reagent supply: the "work balance" function assesses the stock on board relative to the workload requirements<sup>(1)</sup>
- Use limit date and calibration validity checks

#### Real-time workflow follow-up

- Control all operations from the main screen (system, reagent and sample status)
- Dynamic display of the test results and sampling exceptions with the test review function<sup>(2)</sup>

#### Reduced maintenance procedures

- Automated daily procedures
- Maintenance alerts
- Easy uploading of target values for calibrators and controls

## Secure data management

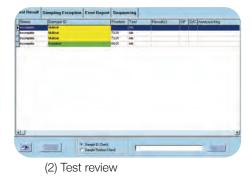
#### Secured results validation

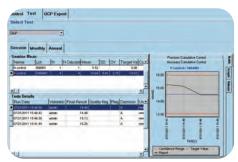
- Westgard multi-rule quality control procedures
- Automatic calibration factor check
- Selective flagging

# Reliable traceability in compliance with Accreditation Standards

- 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<sup>(3)</sup>

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(3) Quality Control



Clinical Chemistry system by HORIBA Medical



#### **PHYSICAL SPECIFICATIONS**

• Analyzer dimensions and weight

2			
Height	Width	Depth	Weight
25 in	40 in	28 in	265 lbs
634 cm	102 cm	72 cm	121 kg

- Recommended lab bench dimensions (analyzer/printer + servicing area) Height Width Depth 48 in 60 in 36 in 122 cm 153 cm 92 cm
- External cooling unit dimensions and weight

Height	Width	Depth	Weight
18 in	12 in	17 in	77 lbs
46 cm	31 cm	44 cm	35 kg

• Recommended dimensions beneath bench (for cooling unit + water/waste containers)

Height	Width	Depth
28 in	32 in	24 in
172 cm	82 cm	62 cm

#### • Power requirements

Power supply 120 VAC (± 10%) 60Hz 15 Amp Outlets 3-5 outlets (1

np utlets (1 – PC400 / 1 – Cooling Unit / 1 – Printer) (Optional: 1 – Water System / 1 – waste pump)

- Temperature and humidity requirements Operating temperature 61° F to 90° F
  - 15° C to 32° C
- Optional remote diagnostic and LIS connectivity requirements

   Cat 5 Ethernet Port for Remote Diagnostics capability to Pentra C400
   RS232 port from Pentra C400 is a standard DB-9 male connector
   ASTM specification E-1381 and E-1394 compliant
   Pentra C400 accepts most Barcode formats

#### Distributed by JANT PHARMACAL CORPORATION



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