







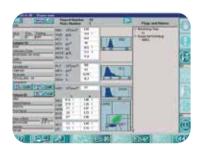
ABX Pentra XL80

Delivering the performance you need from a hematology Analyzer



Cytology Platform Performance

- 80 tests per hour
- Large capacity auto-loader (100 tubes)
- Stat sampling on open or closed tubes
- 20 parameters: CBC (10), DIFF (10)
- Micro-sampling on whole blood: 30 μL in CBC mode and 53 μL in CBC+DIFF mode
- Customized Dilution Ratio (CDR)
- Automatic Sample Re-run
- Integrated Validation Station
- Compatible with ABX Pentra ML (Multilink System) to centralize hematology operations



Performance

- Single screen to view data.
- 20 parameters, histograms, colour matrix, flags and remark.



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SX Pentra XL =

1.14

Comfort

- On-screen location of test samples.
- Virtual mapping of rack location including tube position, rack number and type of analysis (CBC or CBC + DIFF).



User Friendly

Real-time Status Overview.
On-board view of reagent levels, testing progress and ratio of flagged samples.

Serving the Patient with the Best Technologies

Precise, reliable results from DHSS and MDSS technologies*

Micro-sampling MDSS

(Multi-Distribution Sampling System):

- Micro-sampling and complete homogenization of blood samples with reagents.
- Precise aliquot volumes with patented control valve system.
- \bullet Only 30 μL in CBC mode and 53 μL in CBC+DIFF mode are extracted.

DHSS (Double Hydrodynamic Sequential System) for Cytochemistry and Cytometry:

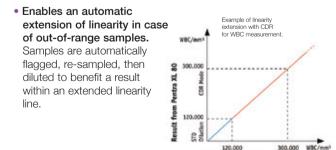
Cytochemistry

- Produces excellent cell differentiation by regulating the temperature during the cytochemical staining of internal cellular components using Chlorazol Black.
- 48 hours post-draw stability.

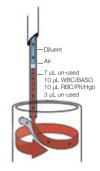
Flow Cytometry

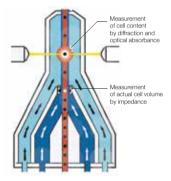
• Precise cellular identification by injecting the prepared sample into a double hydrofocusing cytometer: **impedance** (cell volume measurement) & **optical** (analysis of the internal cellular structure by measuring light absorbency).

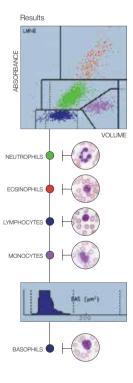
Efficiency with Customized Dilution Ratio CDR:



WBC expected values







* HORIBA Medical Patents



PHYSICAL SPECIFICATIONS

Dimensions & Weight:

He	eight	Width	Depth
21	.5 in	32.3 in	22.4 in
54	l cm	82 cm	57 cm

Printer. Laser

Throughput:

Up to 80 samples/hour in automatic mode Up to 80 samples/hour in stat mode

Sound Pressure Level: < 60 dBa

Operating Temperature: 16 to 34°C (61 to 93°F) room temperature.

Specimen Volume: CBC 30 uL CBC + DIFF 53 µL

Power Requirements: Power supply

Power consumption

Reagents: Only 4 reagents and 1 diluent :

from 100 V to 240 V (± 10%) 50 Hz to 60 Hz Maximum 186 VA

Weight

122 lb

55 kg

ABX Diluent ABX Alphalyse ABX Cleaner ABX Eosinofix ABX Basolyse II

Photometry

35°C (95°F)

Numeric integration

550 nm

1/250

80 µm

1/200

60 µm

42 µm

1/80

12 seconds

12 seconds

35°C (95°F)

200 mb

2x6 seconds

35°C (95°F)

Double Hydrodynamic Sequential System (DHSS)

Cytometry & Cytochemical association

METHODS & TECHNOLOGIES

Multi Distribution Sampling System (MDSS)

RBC & PLT Detection Principles Impedance Method Aperture diameter 50[.] um

Counting depression 200 mb 2x6 seconds Counting duration 1/10 000 35°C (95°F) Reaction temperature HGB Measurement

Method Wavelength Dilution ratio Reaction temperature

Dilution ratio

HCT Measurement Method

WBC & BASO Detection Principles Impedance

Method Aperture diameter Counting depression Counting duration Dilution ratio Reaction temperature

Differentiation Method

Aperture diameter Hydrofocusing flow diameter Injection duration Dilution ratio Incubation time Reaction temperature

MCV, MCH, MCHC, RDW Calculation

Integrated touch screen validation station

SOFTWARE SPECIFICATIONS

Data Processing:

Color LCD touch screen: 12 in Capacity: 10,000 results + graphs Industrial PC board Windows XP Celeron 566 MHz RAM (256M), Hard disk (10G) Floppy disk & CD ROM reader RS 232C, TCP/IP, 2 X USB1 User defined flagging limits Transmit patient files & QC to LIS Uni-directional & bi-directional connections ASTM protocol inside

Quality Control Management:

24 selectable QC files XB: 100 operator selectable files with statistics (20 results per file) With-in run Levey-Jennings graphs Logs: Calibration, Quality Control, Reagent, Settings, Maintenance, Error, Host,

Blank Cycle, Patient Patient reports management: Delta check History (Matrix, curves, data) Manual input

PARAMETERS & PERFORMANCE DATA

RBC

HGB

HCT

MCV

MCH

Standard

0.1 - 8.0

0.1 - 24

0.7 - 67

CV (%)

< 2.0

< 2.0

< 1.0

< 2.0

< 5.0

28 - 1 900

28 - 2 800

0.56 - 120

MCHC

20 Parameters: WBC NE# & NE% LY# & LY% MO# & MO% EOS# & EOS%

BAS# & BAS%

PLT (whole blood)

PLT (concentrate)

Precision:

Parameters

Linearity:

WBC

RBC

HGB

HCT

WBC

RBC

HGB

HCT

PIT

PIT MPV RDW

CDR ** Mode

1 900 - 3 800

2 800 - 5 600

120 - 360

0 - 8

0 - 24

0 - 67

CDR ** Visible range 360 - 550 8 - 18 24 - 30 67 - 80

Unit

10³/µL

10⁶/µL

g/dL

%

10³/µL

10³/µL

Range	Unit
4.0 - 10.0	10³/µL
3.6 - 6.2	10⁰/µL
12.0 - 18.0	g/dL
36 - 54	%
150 - 500	10³/uL

3 800 - 5 500 5 600 - 7 500

103/µL

CERTIFICATION

EN 61326-1 EN 61326-2-6 IEC 61000-3-2 IEC 61000-3-3 IEC 61010-1 IEC 61010-2-81 IEC 61010-2-101

cTUVus Mark UL 61010-1 CAN/CSA-C22.2 61010-1 98/79/EC (IVD)

** CDR: Customized Dilution Ratio

AD-070213-3

