

# ABX Micros 60

Process efficiency in Hematology



**HORIBA**  
Medical

PHYSICAL SPECIFICATIONS

- Dimensions & Weight:**

|         |         |         |        |
|---------|---------|---------|--------|
| Height  | Width   | Depth   | Weight |
| 44 cm   | 36 cm   | 33cm    | 14 Kg  |
| 16.5 in | 14.2 in | 12.6 in | 31 lb  |
- Throughput:**  
Up to 55 samples/hour in Closed or Open Tube
- Specimen Volume:**  
CBC - 10 µl / CBC 3 part DIFF - 10µl
- Power Requirements:**

|                   |                        |
|-------------------|------------------------|
| Power supply      | from 90 Vac to 240 Vac |
|                   | 50 Hz to 60 Hz         |
| Power consumption | Maximum 230 VA         |
- Reagents:**

|                            |               |
|----------------------------|---------------|
| Micros 60 bottle reagents: | Minidil       |
|                            | Alphalyse 360 |
|                            | Miniclean     |
|                            | Minilyse      |
| Micros 60 Pack reagents:   | Minipack      |
- Sound Pressure Level:**  
<60 dBa
- Operating Temperature & Humidity:**  
16 - 34°C (61 - 93°F) room temperature  
Maximum relative humidity 80% for temperature up to 31°C (88°F)  
decreasing linearity humidity at 40°C (104°F)

METHODS & TECHNOLOGIES

- RBC/PLT detection principles**

|        |           |
|--------|-----------|
| Method | Impedance |
|--------|-----------|
- HGB measurement**

|            |            |
|------------|------------|
| Method     | Photometry |
| Wavelength | 555 nm     |
- HCT measurement**

|        |                     |
|--------|---------------------|
| Method | Numeric integration |
|--------|---------------------|
- WBC measurement**

|        |           |
|--------|-----------|
| Method | Impedance |
|--------|-----------|
- 3 part Differentiation**

|        |                      |
|--------|----------------------|
| Method | Impedance            |
|        | Specific lyse action |
- Calculated Parameters**  
MCV, MCH, MCHC, RDW

CERTIFICATIONS

UL 61010-1:204 R7.05  
CAN/CSA-C22.2 NO. 61010-1-0-4

SOFTWARE SPECIFICATIONS

- Data Processing:**  
LCD screen with 2 lines of 40 alphanumerical characters  
Capacity: Last result + graphics  
Optional memory smart card - 78 results  
Unidirectional connection RS 232  
QC and Patient results can be transmitted to LIS
- Quality Control Management:**  
QC-RT Quality Control Program  
Optional Lite DM™ data management software

PARAMETERS & PERFORMANCE DATA

- 16 Parameters**

|              |      |     |
|--------------|------|-----|
| WBC          | RBC  | RDW |
| GRA # & GRA% | HGB  | PLT |
| MON# & MON%  | HCT  | MPV |
| LYM# & LYM%  | MCV  |     |
|              | MCH  |     |
|              | MCHC |     |
- Linearity:**

|            |                                             |
|------------|---------------------------------------------|
| Parameters | Limits                                      |
| WBC        | 0 - 100 x 10 <sup>3</sup> /mm <sup>3</sup>  |
| RBC        | 0 - 8 x 10 <sup>6</sup> /mm <sup>3</sup>    |
| HGB        | 0 - 26 g/dL                                 |
| HCT        | 0 - 80%                                     |
| PLT (A)*   | 0 - 2200 x 10 <sup>3</sup> /mm <sup>3</sup> |
| PLT (B)*   | 0 - 4000 x 10 <sup>3</sup> /mm <sup>3</sup> |
- Precision:**

|            |       |                           |
|------------|-------|---------------------------|
| Parameters | %CV   | Nominal Values            |
| WBC        | < 2.5 | 10 x 10 <sup>3</sup> /µL  |
| RBC        | < 2.0 | 5 x 10 <sup>6</sup> /µL   |
| HGB        | < 1.5 | 15 g/dL                   |
| HCT        | < 2.0 | 45%                       |
| PLT        | < 5.0 | 300 x 10 <sup>3</sup> /µL |
- Carry-over:**

|            |       |                                         |
|------------|-------|-----------------------------------------|
| Parameters | %     | Blood count level                       |
| WBC        | < 0.5 | 63.0 x 10 <sup>3</sup> /mm <sup>3</sup> |
| RBC        | < 0.5 | 7.58 x 10 <sup>6</sup> /mm <sup>3</sup> |
| HGB        | < 0.5 | 23.4 g/dL                               |
| PLT        | < 0.5 | 988 x 10 <sup>3</sup> /mm <sup>3</sup>  |

\*A for Hgb > 2 g/dL and RBC > 0.5 x 10<sup>6</sup>/mm<sup>3</sup>  
\*B for Hgb < 2 g/dL and RBC > 0.5 x 10<sup>6</sup>/mm<sup>3</sup>

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Subject to technical modifications / AD-041113-1 Rev.3 USA VERSION

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Medical

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# ABX Micros 60

Process efficiency in Hematology



- Up to 55 samples per hour
- CBC / 3 DIFF 16 Parameters
- Open or Closed tube
- Compact and lightweight
- Micro-sampling:  
10µl of whole blood per cycle

## Solutions adapted to your needs

### > Concepts and Technology

- **CBC**  
Impedance, selective lysing (LMG)
- **Liquid valves**  
Precise volumes and reliability
- **No compressor**  
Stepper motor and low noise

### > Automatic Maintenance

Automatic cleaning of the sampling probe

### > 16 parameters

WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, MPV, RDW, LYM (% and #), MON (% and #), GRA (% and #), WBC, RBC and PLT histograms

### > Flexible with a list of options

- **Lite DM software**  
Comprehensive QC management  
Customizable test panels  
Cumulative reporting  
EMR / LIS connectivity
- **Quality control management**  
QC-RT Quality Control Program
- **Sampling mode**  
Open tube, or  
Closed Tube (4 position tube holder)
- **Identification mode**  
Alphanumeric (*with internal keyboard*)  
Barcode reader (for patient's ID number)
- **Integrated Reagents**  
Bottles / Minipack
- **Memory**  
Last result + graphics

• Simple and easy menu

• Fully-automatic analysis cycle

• Only 3 reagents (diluent, lyse, cleaner)



Comprehensive QC and Patient  
Data Management



Micros 60  
Open tube system available



Sample Tube Holder  
Utilizes Multiple  
Tube Sizes



Barcode reader



Keyboard



Self contained pack  
for reagents/waste