Results you can trust with superior support your lab needs.

COULTER AC•T diff2 Hematology Analyzer
Reliable Results at an Incredible Value

The COULTER AC\textsuperscript{T} diff2 hematology analyzer is an affordable, easy-to-use system that is ideal for a physician’s office lab or small volume laboratory. As a fully automated system, the AC\textsuperscript{T} diff2 offers a CBC and 3-part Coulter histogram differential for consistently accurate results. This compact analyzer provides closed vial sampling to maximize safety and efficiency in your lab. It requires a small sample volume in both open and closed analysis modes, offers a wide operating range and provides multiple output formats. With the reliable performance of the AC\textsuperscript{T} diff2 and Beckman Coulter’s superior customer support, you will achieve maximum uptime in your laboratory.

Gain confidence in results with the COULTER AC\textsuperscript{T} diff2

Specially formulated reagents, controls and calibrators ensure accurate results
Ease of Operation

- CBC and differential results are easily obtained with sophisticated, yet user-friendly technology
- Running patients, controls or calibrators is as easy as 1, 2, 3
  1. Select mode with one touch
  2. Place closed tube in sample station
  3. Review results on screen or printout

Running Samples is Easy

1. Select sample mode and verify ID via the intuitive touch screen
2. Place sample or control tube into the closed vial sample station
3. Review results in less than 60 seconds

Accurate and Reliable Results

- Wide operating ranges, extended platelet counting and linearity of WBC and PLT to zero speed turnaround times of the most critical values
- Triplicate counting and patented sweep flow technology and aperture monitoring assure accurate results

Safe and Flexible Sample Handling

- Closed vial mode increases safety
- Small, 18 µL, sample aspiration permits running capillary or venous whole blood specimens

Efficient Data Management

- Onboard calibration and reproducibility files automate statistical calculations
- Three user-definable reference ranges for high/low flagging of patient and quality control results
- Six different reporting styles

Service and Support You Can Count On

- Easily accessible telephone support network
- Fast, efficient technical support
- Quick service response time

Regardless of which Beckman Coulter system your lab relies on, you can count on us to ensure that they will continue to operate at peak efficiency for years to come. Contact your Beckman Coulter representative today for more information on how the AC•T diff2 can deliver greater productivity and efficiency in your lab.
COULTER AC•T diff2 Specifications

Methods and Technologies
- Coulter Principle: counting and sizing
- Triplicate counting
- Extended platelet counting
- Cyanmethemoglobin

18 Available Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>WBC</td>
<td>0.0 – 150 x 10^3 cells/µL</td>
</tr>
<tr>
<td>RBC</td>
<td>0.00 – 8.00 x 10^6 cells/µL</td>
</tr>
<tr>
<td>HGB</td>
<td>0.00 – 30.0 g/dL</td>
</tr>
<tr>
<td>MCV</td>
<td>50.0 – 130.0 fL</td>
</tr>
<tr>
<td>PLT</td>
<td>0.00 – 3000 x 10^3 cells/µL</td>
</tr>
<tr>
<td>MPV</td>
<td>5.0 – 20.0 fL</td>
</tr>
<tr>
<td>LY%</td>
<td>0 – 100%</td>
</tr>
<tr>
<td>MO%</td>
<td>0 – 100%</td>
</tr>
<tr>
<td>GR%</td>
<td>0 – 100%</td>
</tr>
<tr>
<td>RDW</td>
<td>≤ 15.0 x 10^3 cells/µL</td>
</tr>
<tr>
<td>HCT</td>
<td>≤ 20.0 fL</td>
</tr>
<tr>
<td>MCH</td>
<td>≤ 30.0 g/dL</td>
</tr>
<tr>
<td>MCHC</td>
<td>≤ 100%</td>
</tr>
<tr>
<td>RBC</td>
<td>≤ 3.00 x 10^6 cells/µL</td>
</tr>
<tr>
<td>WBC</td>
<td>≤ 9.99 x 10^3 cells/µL</td>
</tr>
</tbody>
</table>

Operating Range

Parameter | Range
----------|------
WBC       | 0.0 – 150 x 10^3 cells/µL
RBC       | 0.00 – 8.00 x 10^6 cells/µL
HGB       | 0.00 – 30.0 g/dL
MCV       | 50.0 – 130.0 fL
PLT       | 0.00 – 3000 x 10^3 cells/µL
MPV       | 5.0 – 20.0 fL
LY%       | 0 – 100%
MO%       | 0 – 100%
GR%       | 0 – 100%
RDW       | ≤ 15.0 x 10^3 cells/µL
HCT       | ≤ 20.0 fL
MCH       | ≤ 30.0 g/dL
MCHC      | ≤ 100%
RBC       | ≤ 3.00 x 10^6 cells/µL
WBC       | ≤ 9.99 x 10^3 cells/µL

Data Management
- Patient ID autonumbering
- 14 digit manual patient ID
- Three user-definable patient ranges for reporting results
- Data storage for 250 patient results
- QC storage for 3 controls and 279 results
- Levey-Jennings graphs

Printers
- Graphics printer
- Roll printer
- Ticket printer

User Interface
- Touch screen
- Language-independent icons
- Single screen display of all results
- Single screen for all input

Host Communication
- RS232C with ASTM standards

Analyzer Dimensions/Weight

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>19 in (49 cm)</td>
</tr>
<tr>
<td>Width</td>
<td>18 in (45 cm)</td>
</tr>
<tr>
<td>Depth</td>
<td>16 in (40 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>45 lb (20 kg)</td>
</tr>
</tbody>
</table>

Power Requirements

<table>
<thead>
<tr>
<th>Power</th>
<th>Input</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 V + 10%</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>120 V + 10%</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>220 V + 10%</td>
<td>50/60 Hz</td>
</tr>
<tr>
<td>240 V + 10%</td>
<td>50/60 Hz</td>
</tr>
</tbody>
</table>

Consumption
- Less than 250 W
- Category II per IEC 1010-1

Throughput
- Minimum of 50 samples/hour
- Results in less than 60 seconds

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