

Results you can trust with
superior support your lab needs.

COULTER AC•T diff2 Hematology Analyzer

Blood Banking
Centrifugation
Chemistry
Flow Cytometry
Hematology
Hemostasis
Immunoassay
Information Systems
Lab Automation
Molecular Diagnostics
Rapid Diagnostics



Reliable Results at an Incredible Value

The COULTER A^C•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 A^C•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 A^C•T diff2 and Beckman Coulter's superior customer support, you will achieve maximum uptime in your laboratory.

**Gain confidence in results
with the COULTER A^C•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

Accurate and Reliable Results

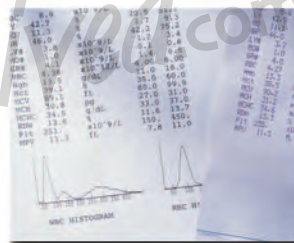
- Wide operating ranges, extended platelet counting and linearity of WBC and PLT to zero speed turnaround times of the most critical values
- Triplicate counting and patented sweep flow technology and aperture monitoring assure accurate results



2. Place sample or control tube into the closed vial sample station

Safe and Flexible Sample Handling

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



3. Review results in less than 60 seconds

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 A^C•T diff2 can deliver greater productivity and efficiency in your lab.

Superior service and a quick response time increase uptime 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

WBC	MPV
RBC	PCT*
HGB	PDW*
HCT	GR%
MCV	GR#
MCH	LY%
MCHC	LY#
RDW	MO%
PLT	MO#

Sample Analysis Characteristics

- Closed or open vial sampling
- Whole blood closed vial mode 18 μ L
- Whole blood open vial mode 18 μ L
- 20 μ L predilute
- Automatic probe wipe

Linearity

When tested using a stable sample having no interfering substances.

<u>Parameter</u>	<u>Linearity Range</u>	<u>Difference</u>
WBC	0.0 – 99.9 x 10 ³ cells/ μ L	\pm 0.3 or \pm 5.0%
RBC	0.0 – 7.00 x 10 ⁶ cells/ μ L	\pm 0.05 or \pm 5.0%
HGB	0.0 – 25.0 g/dL	\pm 0.2 or \pm 3.0%
PLT	0.0 – 999 x 10 ³ cells/ μ L	\pm 10 or \pm 10.0%

Precision

Imprecision is based on 31 replicate determinations of the same sample.

<u>Parameter</u>	<u>Range</u>	<u>% CV/SD</u>
WBC	6.0 – 15.0 x 10 ³ cells/ μ L	\leq 3.0
RBC	3.00 – 6.00 x 10 ⁶ cells/ μ L	\leq 3.0
HGB	12.0 – 18.0 g/dL	\leq 2.0
MCV	80.0 – 100.0 fL	\leq 3.0
PLT	200 – 500 x 10 ³ cells/ μ L	\leq 7.0
MPV	5.0 – 20 fL	\leq 3.0
RDW	12.0 – 15.0%	\leq 3.0
LY	20 – 50%	\leq 1.5 (S.D)
MO	2.0 – 10%	\leq 1.5 (S.D)
GR	30.0 – 70.0%	\leq 3.0 (S.D)

Operating Range

<u>Parameter</u>	<u>Range</u>
WBC	0.0 – 150 x 10 ³ cells/ μ L
RBC	0.00 – 8.00 x 10 ⁶ cells/ μ L
HGB	0.00 – 30.0 g/dL
MCV	50.0 – 130.0 fL
PLT	0.00 – 3000 x 10 ³ cells/ μ L
MPV	5.0 – 20.0 fL
LY%, MO%, GR%	0 – 100%
LY#, MO#, GR#	0 – 99.9 x 10 ³ cells/ μ L

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

Height:	19 in	(49 cm)
Width:	18 in	(45 cm)
Depth:	16 in	(40 cm)
Weight:	45 lb	(20 kg)

Power Requirements

<u>Power</u>	<u>Input</u>
100 V + 10%	50/60 Hz
120 V + 10%	50/60 Hz
220 V + 10%	50/60 Hz
240 V + 10%	50/60 Hz

Consumption

Less than 250 W

Installation

Category II per IEC 1010-1

Throughput

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

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San Diego, CA 92121
tel 858-481-5031
toll free 888-882-7739
www.cliawaived.com

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Australia, Gladesville (61) 2 9844 6000 Austria, Vienna (43) 1 291 01 241 Canada, Mississauga (1) 905 819 1234
China, Shanghai (86) 21 3865 1000 Croatia, Zagreb (38) 51 489 9003 Czech Republic, Prague (420) 272 01 73 32
Eastern Europe, Middle East, North Africa, South West Asia: Switzerland, Nyon (41) 22 365 3707 France, Villepinte (33) 1 49 90 90 00
Germany, Krefeld (49) 2151 33 35 Hong Kong (852) 2814 7431 India, Mumbai (91) 22 3080 5000 Italy, Cassina de' Pecchi, Milan (39) 02 953921
Japan, Tokyo (81) 3 5530 8500 Korea, Seoul (82) 2 404 2146 Latin America (1) (305) 380 4709 Malaysia, Kuala Lumpur (60) 3 5621 4793
Mexico, Mexico City (001) 52 55 9183 2800 Netherlands, Woerden (31) 348 462462 Poland, Warszawa (48) 22 366 0180 Puerto Rico (787) 747 3335
Singapore (65) 6339 3633 South Africa/Sub-Saharan Africa, Johannesburg (27) 11 564 3203 Spain, Madrid (34) 91 3836080
Sweden, Bromma (46) 8 564 85 900 Switzerland, Nyon (41) 0800 850 810 Taiwan, Taipei (886) 2 2730 2500 Turkey, Istanbul (90) 216 570 17 17
UK, High Wycombe (44) 01494 441181 USA, Brea, CA (1) 800 352 3433, (1) 714 993 5321