

Distributed by: Infolab 1-800-782-9700

## Specifications

### Method and Technologies

- Sequential dilution system
- Dual focused flow fluid dynamics

### CBC Analysis and Hgb

- Coulter Principle (impedance): counting and sizing
- Duplicate counting
- Coincidence correction
- Pulse editing
- Rinse flow system
- Spectrophotometry for hemoglobin
- Beckman Coulter AC•T 5diff reagent system

### 5-Part Differential Analysis

- Absorbance Cytochemistry with Volume
- AC•T 5diff Fix and WBC Lyse system

### Available Parameters

WBC	RBC	PLT
NE#	Hgb	MPV
NE%	HCT	PCT*
LY#	MCV	PDW*
LY%	MCH	
MO#	MCHC	
MO%	RDW	
EO#		
EO%		
BA#		
BA%		
ATL#*		
ATL%*		
IMM#*		
IMM%*		

\* For research use only.

Optional parameters available outside US.

### Sample Handling

- 53 µL whole blood, CBC/DIFF Mode
- 30 µL whole blood, CBC Only Mode
- Universal closed tube sampling system

### Quality Control

- AC•T 5diff Control Plus (tri-level/barcoded)
- AC•T 5diff Cal (calibrator)

### Precision

Parameter	CV	
WBC	<2%	at 10 x 10 <sup>3</sup> cells/µL
RBC	<2%	at 5 x 10 <sup>6</sup> cells/µL
Hgb	<1%	at 15 g/dL
HCT	<2%	at 45%
PLT	<5%	at 300 x 10 <sup>3</sup> cells/µL

### Accuracy

Correlation r >0.95 for WBC, RBC, PLT, Hgb, Hct

### Positive ID

- Internal barcode reader
- Hand-held barcode reader
- Codabar
- Code 39
- Code 128
- Interleaved 2-of-5
- EAN 8
- EAN 13

### AC•T 5diff AL Operating Range

Parameter	Range	Units
WBC	0-150	10 <sup>3</sup> /µL
RBC	0-18	10 <sup>6</sup> /µL
PLT	0-1900	10 <sup>3</sup> /µL
PLT Concentrate	0-2800	10 <sup>3</sup> /µL
HCT	0-80	%
Hgb	0-30	g/dL

### Linearity

WBC	0.4-120.0 x 10 <sup>3</sup> /µL
RBC	0.3-8.0 x 10 <sup>6</sup> /µL
Hgb	1.3-24.0 g/dL
HCT	2-67.0%
PLT	10-1000 x 10 <sup>3</sup> /µL
PLT Concentrate	100-1900 x 10 <sup>3</sup> /µL

### Dimensions/Weight

Height	21.5"	(54.21 cm)
Width	32.3"	(81.45 cm)
Depth	22.5"	(57.73 cm)
Weight	121.3 lbs	(55 kg)

### Reagent System

Part Number	
AC•T 5diff Calibrator	7547175
AC•T 5diff Control Plus	7547198
AC•T 5diff Rinse	8547167
AC•T 5diff Hgb Lyse	8547168
AC•T 5diff Diluent	8547169
AC•T 5diff WBC Lyse	8547170
AC•T 5diff Fix	8547171

### Throughput

- Up to 80 samples/hour

### Data Management

- Auto-sequence run number available
- 20 flagging set (8 are predefined, 12 can be added)
- 20 result action ranges with interpretive messages
- Customizable report format
- 5 reporting unit format options
- RS232C host transmission (multiple formats)
- 10,000 patient result storage
- On board quality control (24 control files)
- Worklist capability for addition of patient demographics
- On board help files
- Control data upload
- Calibration data upload
- IQAP download

### Sample Stability

- CBC 48 hr room temperature
- DIFF 24 hr room temperature

### Operating Temperature

- 16 to 34°C (61 to 93°F)

## Performance And Value You Can Count On.

## COULTER® AC•T™ 5diff AL (Autoloader) Hematology Analyzer

Immunodiagnosics

Centrifugation

Disease Management

General Chemistry

Clinical Research

**Hematology**

Hemostasis

Lab Automation

Data Management

Flow Cytometry

Primary Care



SIMPLIFY • AUTOMATE • INNOVATE

Eastern Europe, Middle East, North Africa: Switzerland, Nyon (41) 22 994 0707. Australia, Gladesville (61) 2 9844 6000. Canada, Mississauga (1) 905 819 1234. China, Beijing (86) 10 6515 6028. Hong Kong (852) 2814 7431, 2814 0481. France, Villepinte (33) 1 49 90 90 00. Germany, Krefeld (49) 2151 33 35. Italy, Milan (39) 02 953921. Japan, Tokyo (81) 3 5404 8424. Latin America (1) (305) 380 4709. Mexico, Mexico City (52) 55 560 57770. Netherlands, Mijdrecht (31) 297 230630. Puerto Rico (787) 747 3335. Singapore (65) 6339 3633. South Africa/Sub-Saharan Africa, Johannesburg (27) 11 805 2014. Sweden, Bromma (46) 8 564 85 900. Switzerland, Nyon 0800 850 810. Taiwan, Taipei (886) 2 2378 3456. Turkey, Istanbul (90) 216 309 1900. UK, High Wycombe (44) 01494 441181. USA, Brea, CA (1) 800 352 3433, (1) 714 993 5321.

www.beckmancoulter.com

© Copyright 2004 Beckman Coulter, Inc.

PRINTED IN U.S.A.

Bulletin 9309



Distributed by: Infolab 1-800-782-9700

## COULTER® AC•T™ 5diff AL (Autoloader)

*Automated sample processing for walkaway efficiency*

The AC•T 5diff AL significantly improves sample handling by eliminating manual sample loading – a feature that not only saves time, but also lowers operational costs and increases your lab's overall workflow efficiency. In addition, the software enables laboratories to upload QC assay values and download IQAP data automatically, which enhances their Quality Assurance program management while requiring less manual manipulation of data.



*The AC•T 5diff AL has 100 sample loading capacity.*

### Easy to Operate

- Integrated autoloader processes 1 to 100 samples, loading up to ten racks (each holding ten 13 x 75 mm tubes) for higher testing capacity – 80 samples per hour
- Two additional tube holders accommodate tubes of varying sizes, such as pediatric tubes, for increased system flexibility during manual mode sampling
- Internal point-of-aspiration barcode reader provides positive sample identification
- STAT interrupt, enables operators to bypass the autoloader and load an emergency sample for prioritized testing
- System recognizes whole blood vs. platelet concentrate and automatically applies the appropriate linearity and reportable ranges
- Comprehensive on-board Help database uses key word searches to help solve problems quickly and easily
- CD-ROM Help software demonstrates system operation and troubleshooting, thus speeding training for new operators
- An external computer with Windows NT software enables easy operator management
- Intuitive icons make the system easy to operate and streamline testing workflow



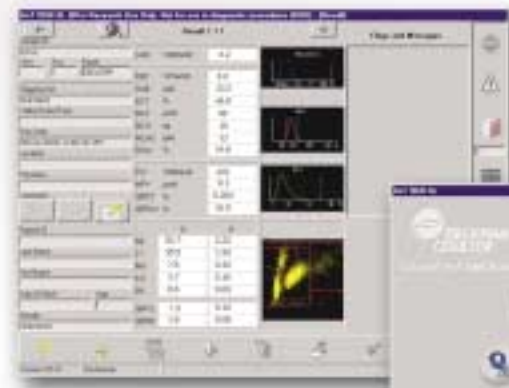
*Two additional tube holders accommodate tubes of varying sizes.*

### Easy-to-use data management

- Easy quality control file management
- Patient storage with streamlined data recall
- Interlaboratory Quality Assurance Program (IQAP) complements your lab's in-house quality control efforts and increases confidence in your results
- Downloadable IQAP data and uploadable control assay reduce manual data manipulation and save time
- Qualitative flagging speeds review of patient results and decreases turnaround time
- 20 user-definable patient and action ranges for increased flexibility
- Individual log books consolidate and automate record keeping



*Easy-to-use data management system includes on-board quality assurance, patient storage and work lists for pre-assigning patient demographics.*



*The AC•T 5diff AL simplifies daily tasks with informative results screens and an extensive quality control program.*

