

# Coulter Ac-T diff2 Hematology Analyzer



## OVERVIEW

Ac-T diff2 delivers performance, value and safety for physician office labs and smaller laboratories. It's an affordable, easy-to-use system that offers a small sample volume in both open and closed analysis modes, a wide operating range and multiple output formats.

## FEATURES

- Closed vial sampling that accommodates a variety of collection of tube sizes
- Small, 18  $\mu$ L, sample size in either closed or open vial modes
- User-definable high/low flagging of patient results and quality control simplifies data interpretation
- Automated quality assurance functions improve productivity
- Closed vial sampling for controls and calibrators provides operator safety
- Compact benchtop design requires only two square feet of counter space
- Zero routine maintenance and high system reliability help contain costs
- 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
- 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
- Closed vial mode increases safety
- Small, 18  $\mu$ L, sample aspiration permits running capillary or venous whole blood specimens
- 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

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## Contact Us for More Information:

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# Coulter Ac-T diff2 Specifications

## Methods and Technologies

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

## 18 Available Parameters

WBC MPVRBC 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 µL
- Whole blood open vial mode 18 µL
- 20 µL predilute
- Automatic probe wipe

## Linearity

When tested using a stable sample having no interfering substances.

### Parameter Linearity Range Difference

WBC 0.0 – 99.9 x 10<sup>3</sup> cells/µL ± 0.3 or ± 5.0% RBC 0.0 – 7.00 x 10<sup>6</sup> cells/µL ± 0.05 or ± 5.0% HGB 0.0 – 25.0 g/dL ± 0.2 or ± 3.0% PLT 0.0 – 999 x 10<sup>3</sup> cells/µL ± 10 or ± 10.0%

## Precision

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

### Parameter Range % CV/SD

WBC 6.0 – 15.0 x 10<sup>3</sup> cells/µL ≤ 3.0 RBC 3.00 – 6.00 x 10<sup>6</sup> cells/µL ≤ 3.0 HGB 12.0 – 18.0 g/dL ≤ 2.0 MCV 80.0 – 100.0 fL ≤ 3.0 PLT 200 – 500 x 10<sup>3</sup> cells/µL ≤ 7.0 MPV 5.0 – 20 fL ≤ 3.0 RDW 12.0 – 15.0% ≤ 3.0 LY 20 – 50% ≤ 1.5 (S.D) MO 2.0 – 10% ≤ 1.5 (S.D) GR 30.0 – 70.0% ≤ 3.0 (S.D)

## Operating Range

### Parameter Range

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

Height: 19 in (49 cm)

Width: 18 in (45 cm)

Depth: 16 in (40 cm)

Weight: 45 lb (20 kg)

## Power Requirements

### Power Input

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 Installation

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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