

diatron●●

# Abacus 380

3-PART WBC DIFFERENTIAL  
ANALYZER



# ANALYZER OVERVIEW

The Abacus 380 is a compact, bench top, 3-part WBC differential analyzer with a sample throughput of 80 tests/hour, making it our fastest analyzer today. The Abacus 380 is operated via a color touch screen and an easy to follow,

intuitive icon user interface. With all its features and small footprint, the system is ideal for clinical laboratories that are looking for a reliable, safe, accurate and easy to use instrument.

## BENEFITS AND KEY FEATURES

### ACCURATE AND PRECISE RESULTS

- Proven impedance measurement technology with advanced flagging algorithms
- Clog detection and prevention with automatic system cleaning processes
- Comprehensive 22 parameters CBC with 3 histograms

### USER FRIENDLY AND EASY TO OPERATE

- Easy to use high resolution touch screen with multi-language menu
- Recording of sample and quality control information is fast and efficient
- 4 USB ports allow simple connection with external devices such as a host computer or an external printer
- Advanced software package providing comprehensive QC statistics

### OPERATOR SAFETY

- Unique sample rotor that reduces the risk of biohazard exposure
- Self-cleaning procedures minimize daily maintenance

### CONFIDENCE

- System uses easy to understand warning messages and sample flags
- Designed to use specific Diatron reagents to deliver the highest quality results

### DIATRON REAGENTS

Diatron's systems consist of two perfectly matched elements: analyzers and reagents. The optimum performance is only achieved when genuine reagents are used. Diatron is ISO 13485 and ISO 9001 certified, and our reagent manufacturing plant is designed to ensure the highest quality standards. All lots of reagents are fully controlled prior to release on each of our associated instruments for low background counts, osmolality, pH and other critical parameters. Our diluent reagents contain no azide and our lyse reagents are cyanide free. The highly stable reagents offer a shelf life of up to 48 months from the date of manufacture and up to 120 days of on-board stability. The combination of Diatron reagents and Diatron analyzers together ensure the best system performance and quality of results.

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# SPECIFICATIONS

## MEASURING DATA

- Throughput: 80 tests/hour
- Parameters: 22 hematology parameters, including 3-part differential: WBC, LYM, MID, GRA, LYM%, MID%, GRA%, RBC, HCT, MCV, HGB, MCH, MCHC, PLT, PCT, MPV, P-LCC, P-LCR, RDW-CV, RDW-SD, PDW-CV, PDW-SD

## MEASURING PRINCIPLE

- Volumetric impedance method
- Light absorbance for HGB measurement

## REAGENTS AND SAMPLING SYSTEM

### Samples

- Sample volume:  
25µl whole blood in normal mode,  
50µl diluted blood in pre diluted mode
- Sampling method: open tube system
- Calibration: manual or automatic

### Reagents

- Environmentally friendly Diluent and Cleaner and cyanide-free Lyse

## QUALITY CONTROL

- Separate QC database
- Levey-Jennings graphs

## MEASUREMENT

- 2 counting chambers
- Aperture diameter: 70 µm (RBC/PLT) and 100 µm (WBC)

## TECHNICAL FEATURES

- Data capacity: 10,000 results
- Host computer interface: USB B port
- Data back-up method: USB mass storage device
- Printer interface: USB with support for HP printers
- Built-in thermal printer module, 58 mm wide roll paper
- Display: 320 x 240 dots, high-contrast, backlit, color graphics LCD (liquid crystal display)
- External keyboard, USB keyboard
- Power requirement: 12 V DC, 5 A, 60 W max.

## USAGE

- User interface: Easy-to-use, menu driven with touch screen, separate START button and status LED
- User languages: English, Indonesian, German, Italian, French, Czech, Portuguese, Polish, Spanish, Vietnamese, Russian, Greek, Hungarian, Romanian

## DIMENSIONS

- Size (Width x Depth x Height):  
32 cm X 30 cm X 35 cm  
13" x 10" x 15"
- Weight: 15 kg, 33 lbs

### Reagents for Abacus 380

Cat. No.	Product name	Volume
DI012	Diatro•Dil-Diff	20 l
D2011HK	Diatro•Lyse-Diff with Hardware Key	1 l
D5011	Diatro•Cleaner	1 l

### Cleaners for decontamination

Cat. No.	Product name	Volume
D7011	Diatro•Hypoclean	1 l
D8011	Diatro•Hypoclean CC	100 ml

### Analyzer

Cat. No.	Description
A38-I	Abacus 380

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