



Abacus 380

When speed and performance matter



Abacus 380

Analyzer Overview

The Abacus 380 is a compact, bench top, **3-part WBC differential analyzer** with a sample throughput of **80 test / 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 laboratories, clinics and physician practices that are looking for a **reliable, safe, accurate and easy to use** instrument.

Key Features and Benefits

- **Accurate and Precise results**
 - Proven impedance measurement technology with advanced flagging algorithms
 - Clog detection and prevention with automatic system cleaning processes
 - Comprehensive 22 parameter 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 computers 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



LAB Market

لاب ماركت

- مستلزمات معملية
- كيمائيات
- أجهزة
- صيانة

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بنها - عمارة ٢ غرب الاستناد - بجوار كنتاكي - خلف نقابة الاطباء ومطعم الرشيدى

Diatron Reagents

Our systems comprise of **two perfectly matched elements: analyzers and reagents**. The development of our analyzer systems was only achieved with its matched reagents. Our **ISO 13485 certified reagent manufacturing plant** is designed to ensure **the highest quality standards**. All lots of reagent we manufacture are fully validated 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. Our highly stable reagents offer a **shelf life of up to 36 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.



Reagents for Abacus 380

| Cat. No. | Product name | Pack size |
|----------|------------------------------------|-----------|
| D1512 | Diatro Dil 5P | 20l |
| D2011HK | Diatro Lyse Diff with Hardware Key | 1l |
| D5011 | Diatro Cleaner* | 1l |
| D6011 | Diatro Clenz* | 1l |
| D7011 | Diatro Hypoclean* | 1l |

* Other sizes of reagents are available:
 Diatro Cleaner 5l D5015
 Diatro Clenz 5l D6015
 Diatro Hypoclean CC 100 ml D8011

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 - 25 µl of whole blood in normal 3-part mode, 50 µl of pre-diluted blood
- Sampling method - open tube system with automatic sample rotor
- Calibration - automatic or manual

Reagents

- Environmentally friendly Diluent & Cleaner reagents and cyanide-free Lyse

Quality control

- Separate QC database
- Levey-Jennings graphs

Measurement

- 2 counting chambers
- Aperture diameter - 70 µ (RBC/PLT) and 100 µ (WBC)
- Clog prevention - high-voltage burst on aperture in each analysis cycle and high pressure back-flush
- Cleaning procedure - high-voltage burst of the aperture, high-pressure back-flush, chemical cleaning of the apertures

Technical features

- Data capacity - 10,000 results, including RBC, PLT, and WBC 3-part histogram
- Host computer interface - USB B port
- Data back-up method - USB mass storage device
- Software upgrade method via USB A port using USB mass storage device
- Printer interface - USB with support for HP printers
- Built-in thermal printer module, 56 mm wide roll paper, full report with histograms
- Display 320x240 dots, high-contrast, backlit, color graphics LCD (liquid crystal display) with touch screen
- External keyboard, USB keyboard
- Power requirement - 12VDC, 5A, 60W max. operating power
- Operating temperature - 15–30°C (59–86 °F). Optimal temperature is 25 °C (77 °F)

Usage

- User interface - easy-to-use, menu driven with touch screen, separate START button and status LED
- User languages - English, Spanish, Portuguese, French, Russian, Indonesian, German, Italian

Dimensions

- Size (Width x Depth x Height): 32,0 cm x 26,0 cm x 36,5 cm
12.6 in x 10.2 in x 14.4 in
- Weight: 12 kg, 26.4 lbs



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Description

Abacus 380

Catalogue No

A380-1