

diatron●●

Abacus Junior 30

3-PART WBC DIFFERENTIAL
ANALYZER



ANALYZER OVERVIEW

The Abacus Junior 30 is the entry-level model in the Diatron range of hematology analyzers. It is a compact, bench top, 30 tests/hour, 22 parameters, 3-part WBC differential system. The Abacus Junior 30 has a practical, simple to use

color touch screen with an easy to follow intuitive user interface. The system is the ideal solution for clinical laboratories looking for a reliable, safe, accurate and easy to use CBC analyzer.

BENEFITS AND KEY FEATURES

ACCURATE AND PRECISE RESULTS

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

USER FRIENDLY AND EASY TO OPERATE

- Easy to use high resolution touch screen with multi-language operating menu
- Recording of sample and quality control information is fast and efficient
- 3 USB ports and 1 USB-B port allow connection with external devices such as a host computer and printers
- Comprehensive QC package to provide informative statistics

OPERATOR SAFETY

- Unique sample rotor to reduce risk of biohazard exposure
- Self-cleaning procedures minimize daily maintenance

CONFIDENCE

- System uses easy to understand warning messages and sample flags
- Analyzer uses precision electronics and mechanical components to provide precise and reliable results
- Designed to use specific Diatron reagents to deliver the highest quality results

Abacus Junior 30

DIATRON REAGENTS

Our system is composed of two perfectly matched elements: analyzer and reagents. The optimum performance of our analyzers is only achieved when genuine Diatron reagents are used. Our ISO 13485 certified reagent manufacturing plant is designed to ensure the highest quality standards. Each lot of reagent manufactured is fully validated prior to release on each of our instruments for low background counts, osmolality, pH as well as other critical parameters.

Our diluents contain no azide and our lysing reagents are cyanide free. Diatron reagents offer a shelf life of up to 48 months before opening and up to 120 days of on-board stability. The combination of Diatron reagents and analyzers together ensure the best system performance and quality of results.



SPECIFICATIONS

MEASURING DATA

- Throughput: 30 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
- Sampling method: Open tube system with automatic sample rotor
- Calibration: Automatic or manual (WBC, HGB, RBC, PLT, MCV, RDW, MPV)

Reagents

- Environmentally friendly. Azide free Diluent and Cleaner, and cyanide-free Lyse.

QUALITY CONTROL

- 6 QC levels: 2 x 3 levels (L, N, H) of control
- QC parameters include mean, range, SD and CV for all measured and calculated parameters, Levey-Jennings charts of last 64 QC measurements

TECHNICAL FEATURES

- Data storage capacity: Maximum 10 000 results, including RBC, PLT, WBC 3-part histograms and full patient data
- Built-in thermal printer (B/W, 56 mm wide paper)
- Printer interface: USB with support for HP printers
- External keyboard and mouse

USAGE

- User interface: Color TFT touch screen
- User languages: English, German, French, Spanish, Italian, Portuguese, Indonesian, Czech, Polish, Vietnamese, Russian, Greek, Hungarian
- Software upgrade: USB memory stick
- Interfacing capabilities: 3 USB A on back, 1 USB A on front, 1 USB B for interfacing to PC
- Multi-user mode: Various privileges, limited access, unique passwords

DIMENSIONS

- Size (Width x Height x Depth):
12.6 x 10.2 x 14.4 in (32 x 26 x 37 cm)
12" x 14" x 10"
- Weight: 12 kg, 26 lbs

OPTIONS

Barcode reader

- Optional with manual barcode scanner via USB port. It can read all common barcodes used for test requisition.

Analyzer	
Cat. No	Description
ACS-IC	Abacus Junior 30

Reagents for Abacus Junior 30		
Cat. No	Product name	Volume
D1012	Diatro•Dil-Diff	20 l
D2011HK	Diatro•Lyse-Diff with Hardware Key	1 l
D5011	Diatro•Cleaner	1 l
D7011	Diatro•Hypoclean	1 l
D8011	Diatro•Hypoclean CC	100 ml

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