

Abacus Junior 30

3-PART WBC DIFFERENTIAL
ANALYZER



ANALYZER OVERVIEW

The Abacus Junior 30 is the first model in the Diatron range of hematology analyzers. It is a compact, bench top, 30 test/hour, 22 parameter, 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 an ideal solution for the smaller clinic, laboratory or physician office that are looking for reliable, safe, accurate and easy to use instrumentation.

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 allows simple 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

DIATRON REAGENTS

Our systems comprise of two perfectly matched elements: analyzers and reagents. The optimum performance of our analyzer systems is only achieved when our matched reagents are used. 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.



SPECIFICATIONS

MEASURING DATA

- Throughput: 30 tests/hour
- Parameters: 22 hematology parameters, including 3-part differential: WBC, LYM, MON, GRA, LYM%, MON%, 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 bulk Diluent and Cleaner reagents and cyanide-free Lyse reagent

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):
32 cm x 37 cm x 27 cm
12" x 14" x 10"
- Weight: 10 kg, 21 lbs

OPTIONS

Barcode reader

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

Reagents for Abacus Junior 30

SAP Cat. No	Product name	Pack size
10023037	Diatro•Dil-Diff	20 l
10023114	Diatro•Lyse-Diff with Hardware Key	1 l
10037815	Diatro•Lyse-Diff	1 l
10023233	Diatro•Cleaner*	1 l
10023273	Diatro•Clenz*	1 l
10023287	Diatro•Hypoclean*	1 l

Analyzers

Description	Catalogue No	SAP Cat No
Abacus Junior 30 (closed reagent model)	ACS-IC	10022095
Abacus Junior 30 (open reagent model)	ACS-I	10022081
Abacus Junior 30 (Non-diff model)	AJ3-ND	10022412

* Other sizes of reagents are available:
Diatro•Cleaner 5 l 10023253 (D5015)
Diatro•Clenz 5 l 10023279 (D6015)
Diatro•Hypoclean CC 100 ml 10037822 (D8011)

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