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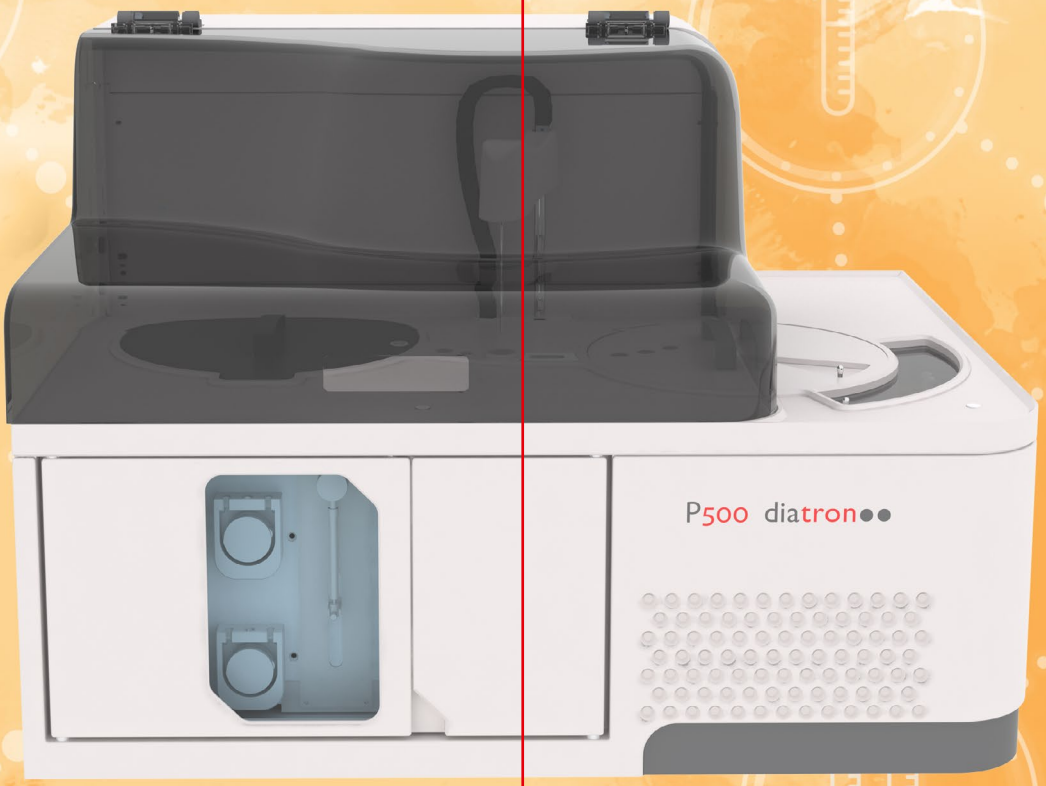
P500

INTELLIGENT
WALK AWAY CHEMISTRY



SPECIFICATIONS

THROUGHPUT*
- Up to 340 photometric tests/hour mono reagent
- Up to 180-240 ISE tests/hour with optional ISE unit
- Maximum combined throughput up to 480 tests/hour

ANALYSIS MODES
- Full and optimized Random access
- Sample or batch mode
- Real STAT
- Continuous reagents and samples loading

TEST PROFILES DEFINITION
- Automatic sample pre and post dilution (1:2 to 1:120)
- Automatic sample re-run
- Reflex testing

METHOD TYPES
- 1point end point
- 2point end point
- Fixed time
- Kinetics
- Calculated
- With or w/o sample and reagent blank

CALIBRATION
- Automatic calibration
- Automatic curve fit
- Factor or standard
- Single and multipoint (unlimited)

CALIBRATION FORMULAS
- Linear
- Multilinear
- Polynomial
- Sigmoid
- Logit4
- Logit5
- Spline

PIPETTING ARM
- One pipetting arm for both sample and reagent, reaction pre-heater, probe collision sensor, reaction mixer and clot detector
- Probe cleaning - internal and external washing
- Stirring after each dispensing, programmable time
- 8 steps washing station

REACTION TRAY
- Reaction cuvette: 80 re-usable plastic 6 mm light path
- Reaction time: 0 to 25 min
- Reaction temperature: adjustable, default 37°C ± 0.1°C

OPTICS:
- Light source: Precision UV quartz halogen lamp
- Photometric Range: -0.1 to 3.6 A

MEASURING WAVELENGTH
- 340, 380, 405, 450, 490, 505, 550, 590, 620, 650, 700, 750 nm

PHOTOMETRY
- Single or Double-wavelength simultaneous reading

OPTIONAL ISE UNIT
- Medica ISE module: Na+, K+, Cl- and optional Li+ measurements
- Samples: serum, plasma or urine

DATA MANAGEMENT
- Import/export database
- Automatic backup procedure
- Windows-based software

INTERFACE LIS:
- Bi-directional RC 232 C, ASTM E 1381-95, ASTM E 1394-97

The throughput is measured by the time elapsed between receiving the first and the last result. It will vary depending on the ratio of 1 and 2 steps assays as well as number of ISE tests. The ISE throughput depends on number of channels/electrodes used in the module.

SAMPLES
- Sample volume 2 to 200 µl/test (in increments of 1ul)
- Initial rack quantity: 5 x 19 samples with continuous loading up to 99 racks providing a capacity of 1100 samples per day
- Applicable sample tubes:
  - primary tube length up to 100 mm
  - pediatric vials
  - 2 types of adaptors to accommodate variety of sample tubes and cups (ext. diameter 11.5 - 16mm)

REAGENTS
- Reagent cooling compartment of 72 cooled positions 8+/- 2°C
- 1 to 3 reagents, 5 to 480 µL in one step (in increments of 1 µL)
- Reagent bottle size 25mL, 45mL and 70 mL
- Min. reaction volume 180 µL
- Max. reaction volume 650 µL

BARCODE READER
- On-board samples and reagents barcode recognition

QUALITY CONTROL SYSTEM
- Levy-Jennings and Twin QC, Westgard multi-rules

PRINTOUT
- Customizable (Analysis result, work list, list of samples, Quality Control, Calibration curves, etc.)

WATER CONSUMPTION**
- ~1,5 L / hour

ENVIRONMENTAL CONDITIONS
- Transportation and storage:
  - +5 to +35°C
  - Humidity 10 to 80% noncondensing,
  - Pressure 600 to 1050 hPa
- Operation:
  - +18 to +30°C
  - Humidity 40 to 80% noncondensing
  - Pressure 600 to 1050 hPa

DIMENSIONS:
- 880mm(W) x 700mm(D) x 660mm

WEIGHT:
- P500 w/o ISE ~105 kg
- P500 w/ ISE ~110 kg

POWER REQUIREMENTS:
- 110/220V, 50/60 Hz, 600 VA

Analyzer and ISE module

SAP No	Description	Catalogue No
10025007	P500 Clinical chemistry analyzer	P500-1
10025008	P500 Clinical chemistry analyzer with ISE module	P500-2

Liquid Consumables

SAP No	Cat. No.	Product Name	Pack size
10030697	VA0002SL	Additive for wash solution	2x250 ml
10372053	VA000SVS	System verification solutions	4x50 ml
10030695	VA0000SL	Cleaning solution KIT	2x250 ml
10310073	VA0008CCL	Cuvette Cleaner Solutions	2x100 ml

***Water consumption: up to 2L / h depending on the number of extra programmed washes and number of batch runs*

INTELLIGENT WALK AWAY CHEMISTRY

The Diatron P500 is an ergonomically designed, fully automated, random access, bench top, clinical chemistry system. As a result of its innovative design and advanced Windows-based software, the P500 can achieve a total throughput of up to 480 tests/hour (in a mix Routine + ISE).

The P500 incorporates features usually offered only in higher cost systems.
Uninterrupted workflow, enhanced walk-away operation and remote access diagnostics, are positioning the P500 as a market leading system.

ONE FAMILY

The P500 belongs to State Of The Arts family of clinical chemistry systems. Within the family the instruments share common, barcoded reagents menu*, consumables, controls and calibrators. All fully validated.

COST EFFECTIVE

Long on-board reagent stability with extensive linearities, low and high volume reagent kits, multi calibrators and controls

RELIABILITY & TRUST

Diatron manufactures high performance analysers with best available quality components

PRODUCTIVITY

Continuous sample and reagent loading with on board capacity of 95 samples (5 racks x 19 positions) and up to 72 reagent vials + ISE

*not cleared for US use

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