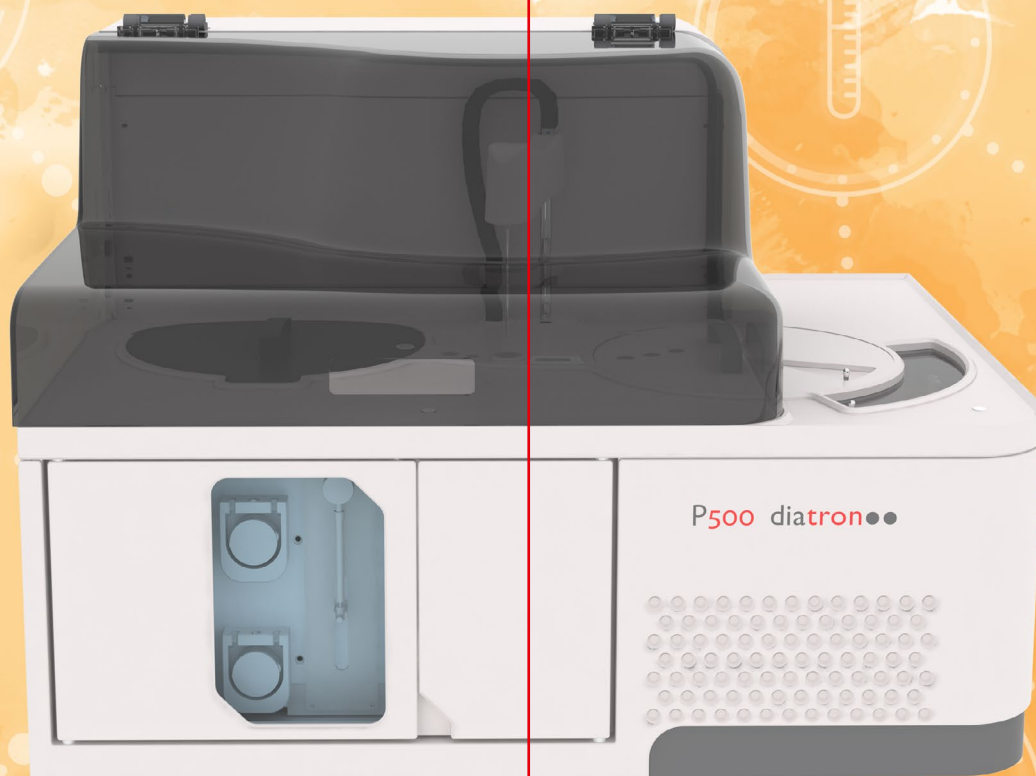


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# P500

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

## 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 ~95 Kg

## POWER REQUIREMENTS:

- 110/220V, 50/60 Hz, 600 VA

Analyzer and ISE module			Liquid Consumables			
SAP No	Description	Catalogue No	SAP No	Cat. No.	Product Name	Pack size
10025007	P500 Clinical chemistry analyzer	P500-1	10030697	VA0002SL	Additive for wash solution	2x250 ml
			10372053	VA000SVS	System verification solutions	4x50 ml
10025008	P500 Clinical chemistry analyzer with ISE module	P500-2	10030695	VA0000SL	Cleaning solution KIT	2x250 ml
			10310073	VA0008CCL	Cuvette Cleaner Solutions	2x100 ml

\*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.

\*\*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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