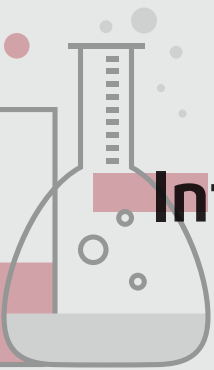


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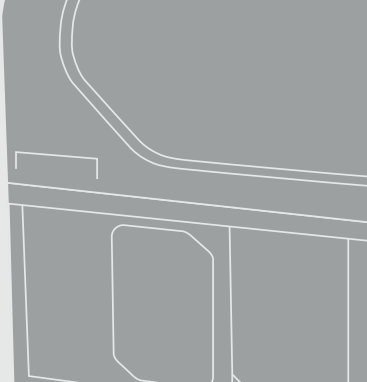
P500

Intelligent
Walk Away
Chemistry





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 per hour. The P500 offers features usually only higher cost systems have such as uninterrupted workflow, enhanced walk-away operation and remote access diagnostics. Our complete portfolio of reagents, controls and calibrators along with the instrument capacity to perform end point, kinetics, fixed point - 2-point kinetics, immuno-turbidimetric, latex enhanced immuno-turbidimetric, calculated, external and coagulation reactions, position the Diatron P500 as a market leading system.



Multi functional arm



Optimized 9-step Washing System



Continuous Reagent Loading



Continuous Sample Loading



Diatron Clinical Chemistry Reagents

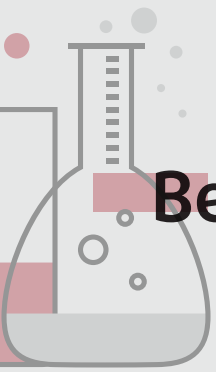
In combination with the analyzer there are **over 70 CE-IVD marked tests** in the Diatron product portfolio to offer a comprehensive range of **validated high quality** Clinical Chemistry reagents, calibrators and controls which meet the needs of today's growing laboratories. The new tests include **substrates, enzymes, electrolytes, lipids, specific proteins and special tests**. All reagents are barcoded, ready to use and have been **specifically designed for use on the Diatron automated analyzers**, so the combination of analyzer and reagents allows customers to enjoy features and benefits that are only normally possible on high cost Clinical Chemistry systems.



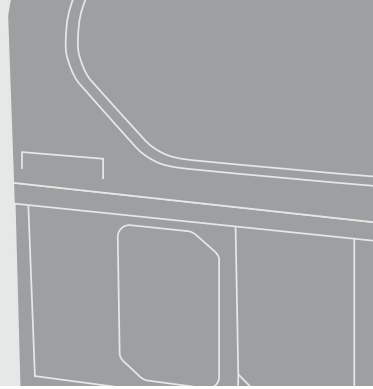
Analyzer and ISE module

Description	Catalogue No
P500 Analyzer without ISE	P500-1
P500 Analyzer with direct 4-ISE module	P500-2
Pictus ISE module (module for upgrading Pictus and P models)	5008

Description provided herein are for marketing purposes only and may not be representative of descriptions provided on official Diatron packing lists and invoices



Benefits and Key Features



Efficiency

- › 95 sample positions
- › 72 single reagent positions
- › First results within 45 seconds
- › 5 open channels
- › Internal optional 4-module ISE
- › Optimized walk away operation (auto cal and blank accept)

Cost effective

- › Low water consumption (up to 2 L/h)
- › Minimal consumable usage
- › 80 reusable PMMA reaction cuvettes
- › Extended calibration and long on-board stability
- › High throughput for a small footprint
- › Environmentally friendly

Easy to operate and learn

- › Operates on Windows platforms up to Windows 10
- › Standard Windows messages and calls
- › Flexible for reagent applications
- › Sophisticated features for use and training
- › Intuitive post dilution and result checking
- › Graphically represented menus – easy to use icons





Benefits and Key Features

Reliable High Quality Operation

- › ISE, dilutor, pumps from suppliers of proven technology
- › Dust-free photometer with minimal service needs
- › Multiple functional arm with crash detector
- › Capacitative level sensor
- › Pre-heater / Temperature control
- › Unique design variable intensity mixer
- › Clot detector
- › Internal BCR for samples, sectors and reagents

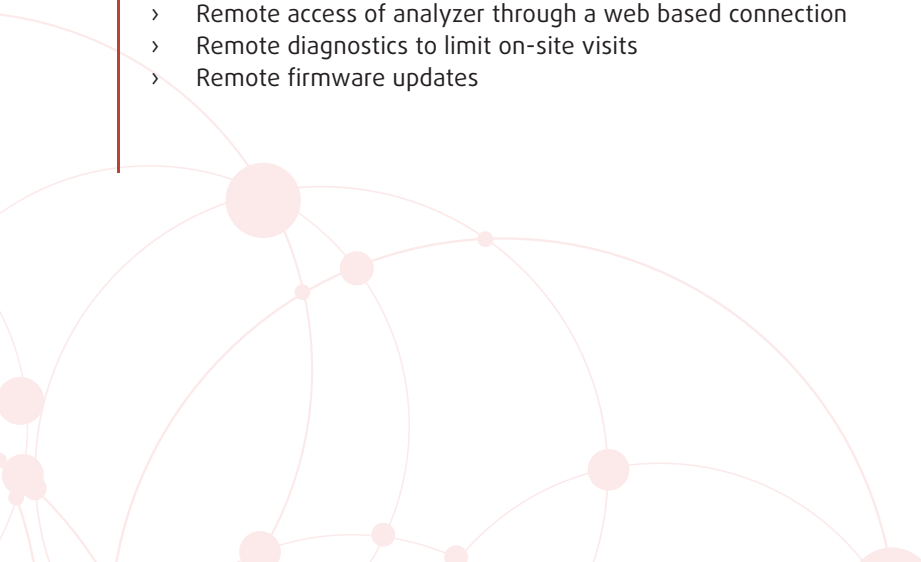
Optimized Workflow

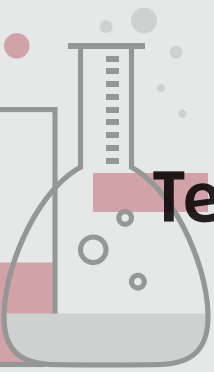
- › Autocal and auto QC features
- › Bi-directional LIMS
- › Reflex Testing
- › Pre- and post-dilution
- › Continuous reagent and sample loading

On-board Inventory Control

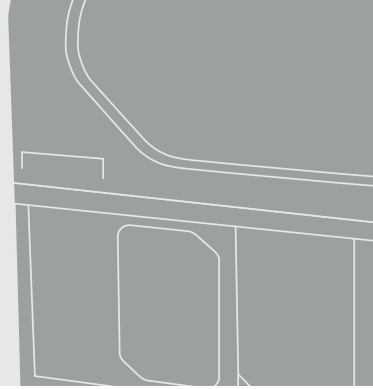
- › Scale system with alarms monitors wash and waste
- › Real time reagent inventory control
- › Continuous monitoring of sample progress
- › Real stat sample capacity

Remote Access and Diagnostics

- › Remote access of analyzer through a web based connection
 - › Remote diagnostics to limit on-site visits
 - › Remote firmware updates
- 



Technical Specifications



Technical Specifications

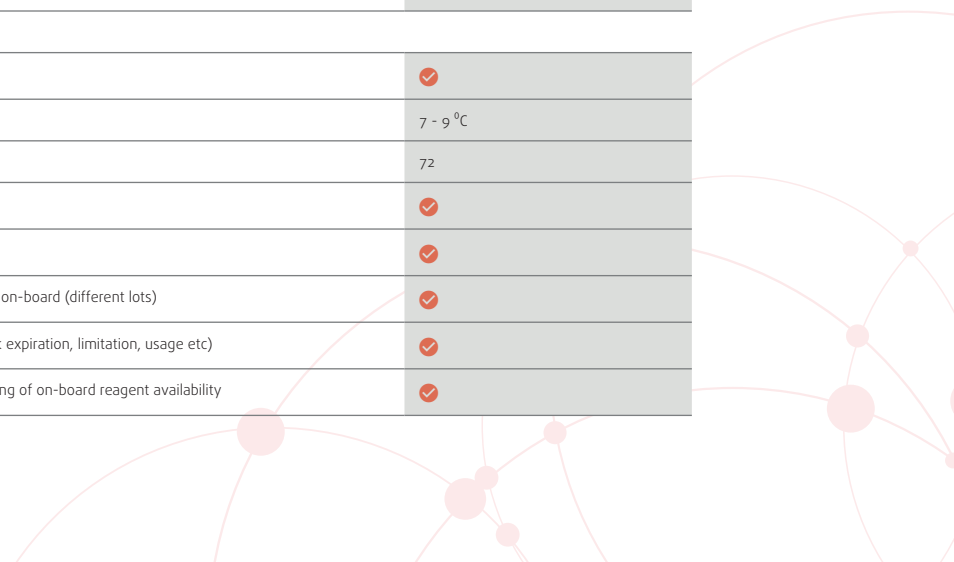
Electrical requirements	600 VA
Weight (kg/lbs)	115/253
Dimensions (Width x Depth x Height) (cm)	90 x 66 x 62
Water Consumption (L/h)	up to 2L
Computer/SW environment	up to Win 10
Interferential optical filters (340-750nm)	12
Photometric range (linearity)	-0.1 / 3.6
Optical resolution	0.0001 ABS
Optional direct 4-ISE module (installable by service)	✓
Internal Barcode Reader for samples, sectors and reagents	✓
Environmental requirements	18 - 30°C
Relative Humidity	<85%, non-condensing
Halogen Tungsten lamp life with sleep mode (h)	2000
Sample and reagent precision of syringe at full stroke	0.05 %CV

General Characteristics

Small to mid-size laboratories	✓
Discrete random access analyzer (fully automated)	✓
Maximum throughput with ISE	480
Maximum photometric throughput	300
Temp. controlled cuvette tray via air bath (min maintenance)	37 ± 0.1°C
Reaction volume (µL)	180 - 650
Sample volume (µL)	2 - 100
Cuvette Path (mm)	6
PMMA reusable/single use cuvettes on board (in segments of five)	80
Probes/Pipettes	1
Time to first result (seconds)	45
Extensive test menu	✓

Reagent Tray and Handling

Removable and interchangeable reagent tray	✓
Refrigerated reagent tray	7 - 9 °C
Refrigerated on-board single reagents/tests	72
Up to three different reagents per test	✓
Continuously monitored loading/access of reagents	✓
Multiple reagent bottles of the same assay/test can be on-board (different lots)	✓
On-screen early warning features (calibration and blank expiration, limitation, usage etc)	✓
On-screen inventory management with real time tracking of on-board reagent availability	✓



Technical Specifications

Sample Handling

Serum, plasma, urine, CSF and other sample types can be used with photometric and ISE methods	✓
Primary, secondary tubes and micro-cups for pediatric samples	✓
Sample Racks/Positions per rack	5 / 19
Samples on-board capacity	95
Continuous loading of sample racks	✓
Real STAT function	✓
Automatic sample dilution and concentration	✓
Post-analytical tasks such as re-running and post-dilution	✓
Editable complete A4 patient report	✓
Unlimited/searchable patient records	✓

Features

Capacitive level sensing for samples and reagents	✓
Crash and collision detection	✓
Reagent pre-heater	✓
Clot detection	✓
Programmable variable intensity on probe mixer	✓
System wash and waste solutions monitoring	✓
Electronic log of activities	✓
Traceability of results	✓
Bi-directional LIS with continuous results transmission	✓
Remote diagnostics to limit on-site visits	✓
QC; graphical and statistical; Westgard rules indicated, Levey-Jennings plots, twin QC and box whisker plots	✓
Programmable auto QC and calibrations	✓
Reflex testing	✓
Method development options	✓
Multiple methodology options (Includes end-points, fixed point and kinetic)	✓
Wide range of calibration options (Includes linear, multi-sigmoidal and spline)	✓
Automatic back-up procedure	✓
Service needs automatically tracked	✓
Sophisticated software features for daily use and training	✓
Compatible with most commercially available printers	✓



Your Experts in Hematology and Clinical Chemistry

Over 25 years' experience
High-tech manufacturing facility
Worldwide distribution
Over 5000 Chemistry units installed
ISO certified European manufacturer



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Diatron reserves the right to change any of the specifications
without prior notice. Version Nr. P500171003V5

We are a member of the STRATEC Group

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