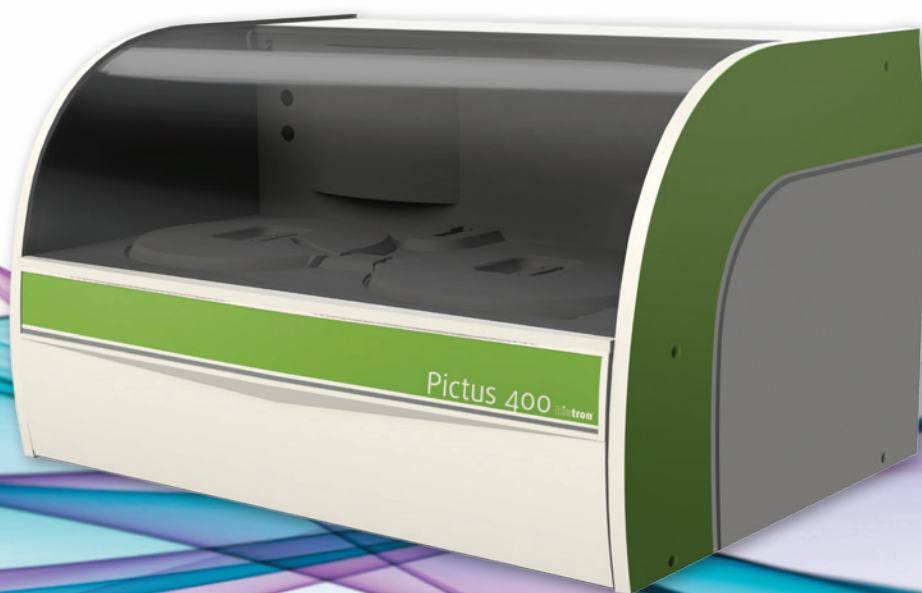




Pictus 400

Reliable, Accurate and Simple



Pictus 400

Analyzer Overview

Diatron's P400 is a **fully automated, random access, compact benchtop** clinical chemistry analyzer. The P400 system can achieve a total throughput of **up to 405 tests per hour** and its technology and features delivers benefits normally associated with much larger and more expensive systems. The P400 system is a perfect combination of **reliable hardware, easy to use software** and fully validated reagents, to provide excellent workflow and analytical performance. The combination of the analyzer and our wide range of high quality chemistry reagents, controls and calibrators make the Diatron P400 system an ideal choice for customers who require a reliable and cost effective analyzer.



Wash system

- 6-position Wash Station
- Automatic cuvette check prior to use ensures clean cuvettes are used for analysis
- Reusable cuvettes for low operating cost



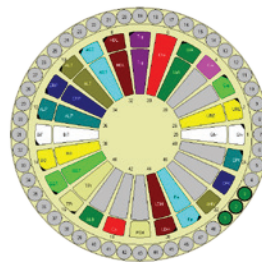
Multi-functional probe

- Crash Detection
- Liquid Level sensing
- Automatic Cleaning of inside and outside of probe
- Pre-heated probe for faster test times
- On-probe mixer



Sample and reagents

- 48 position sample tray
- Primary tubes (13 x 75-100 mm), accepts microtubes
- 48 refrigerated reagents
- Bi-directional LIS features
- Barcoded samples for positive patient ID
- Automatic dilution for over-range specimens
- Diatron CC reagents are recommended



Easy-to-use software

- User friendly, Windows format
- Flexible formatting for individual laboratory needs
- Large patient storage capacity
- Fully integrated QC, Levey-Jennings charts, Westgard rules
- Compatible with Windows XP, Vista, Windows 7 and Windows 8 Operating Systems

Key features and benefits

- **Efficiency**
 - 48 sample positions
 - 48 single reagent positions
 - Continuous sample loading
 - Internal optional 4-module ISE
 - Optimized walk away operation
- **Cost effective**
 - Low water consumption (~1,5 L/h)
 - Minimal consumable usage
 - 80 reusable PMMA reaction cuvettes
 - Extended calibration and long on-board stability
 - High throughput for a small footprint
- **Easy to operate and learn**
 - Runs on any Windows platform up to Windows 8
 - Flexibility for reagents application
 - Sophisticated features for use and training
 - Intuitive post dilution & result checking
 - Graphically represented menus – easy to use icons
 - Internal BCR for samples and reagents
- **Reliable High Quality operation**
 - ISE, dilutor, pumps from suppliers of proven technology
 - Multiple functional arm with crash detector
 - Capacitative level sensor
 - Pre-heater / Temperature control
 - Unique design variable intensity mixer
 - Real stat sample capacity
 - Bi-directional LIMS

Diatron Clinical Chemistry Reagents

In combination with the analyzer there are now **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 have been **specifically designed with the Diatron automated analyzers** in mind, 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.

Throughput

- Up to 225 photometric tests/hour depending on configuration
- Up to 405 tests/hour with ISE

Samples and Reagent

Samples

- 48 position tray
- Primary tubes with barcode option
- Accepts pediatric micro-sample tubes
- Sample volume: programmable 2–100 µL
- Continuous loading
- Sample automatic pre & post dilution

Reagents

- 48 cooled position reagent carousel with barcode reader
- Open Reagent Test menu
- Reagent 1: from 0 to 450 µL
- Reagent 2: from 0 to 450 µL
- Reusable cuvettes

Reaction

- Reagent probe heater
- Auto dilution
- Liquid level sensor
- Washing outside and inside probe
- Typical reaction volume: 200 – 300 µL
- 80 position reaction tray with 6 steps washing station
- Water consumption: 40L/10,000 test
- Warm air incubator: room temp., 30°C and 37°C

Optical System

- Double beam
- Wavelengths: 340, 405, 450, 505, 550, 590, 650, 700 and 750 nm, other optional filters available
- Bandwidth : 10 nm
- Photometric range: -0.1 to 3.6 A
- Light source: halogen lamp 6 v - 20 w

Analytical Modes

- Selection by sample (profile) or by reagent (batch)
- Up to 10 standards per calibration curve
- End point and color reactions
- Fast and two-point kinetics (zero and first order)
- Routine, batch, STAT, profiles – Enzymes, Drugs, Turbidimetric and potentiometric tests
- Automatic sample dilution on abnormal levels, excessive substrate consumption and/or lack of linearity
- Import / export of data, methods and historic file
- Automatic backup

Quality control

- Levey-Jennings plots
- Westgard rules

Quality Standards

- CE, EMC, IEC 61010-1, FDA

Data Management

- Bidirectional LIS interface, RS-232C, ASTM E-1381

Power requirements

- 85 to 230 VAC, 50/60 Hz, 400 VA

Dimensions

- Size (Width x Depth x Height)
85 cm x 58 cm x 47 cm
33.5 in x 22.8 in x 18.5 in
- Weight: 64 kg, 141 lbs

Options

ISE Options

- Na+, K+, Cl- and Li+ measurements on serum or urine samples

Barcode reader

- Reads all common barcodes used for test requisition and reagent identification.

PC Requirements

- Up to Windows™ 8 computer, 4 Gbytes RAM, 500 Gbytes HDD, DVD-ROM drive, min. 1024x768 resolution SVGA, 15" or bigger monitor, keyboard, mouse, 2 RS-232 ports or 2 USB/RS-232 converters for link with the analyzer and LIS, USB port for printer

Printers

- Most printers supported by Windows can be connected.

Your distributor

Description	Catalogue No
Pictus 400 fully automated chemistry analyzer	P400-1
Pictus 400 with ISE module	P400-2
Pictus 400 with barcode reader	P400-3
Pictus 400 with ISE module and barcode reader	P400-4

We are at your service any time.

Diatron reserves the right to change any of the specifications without prior notice. Version Nr. P400150622V3



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