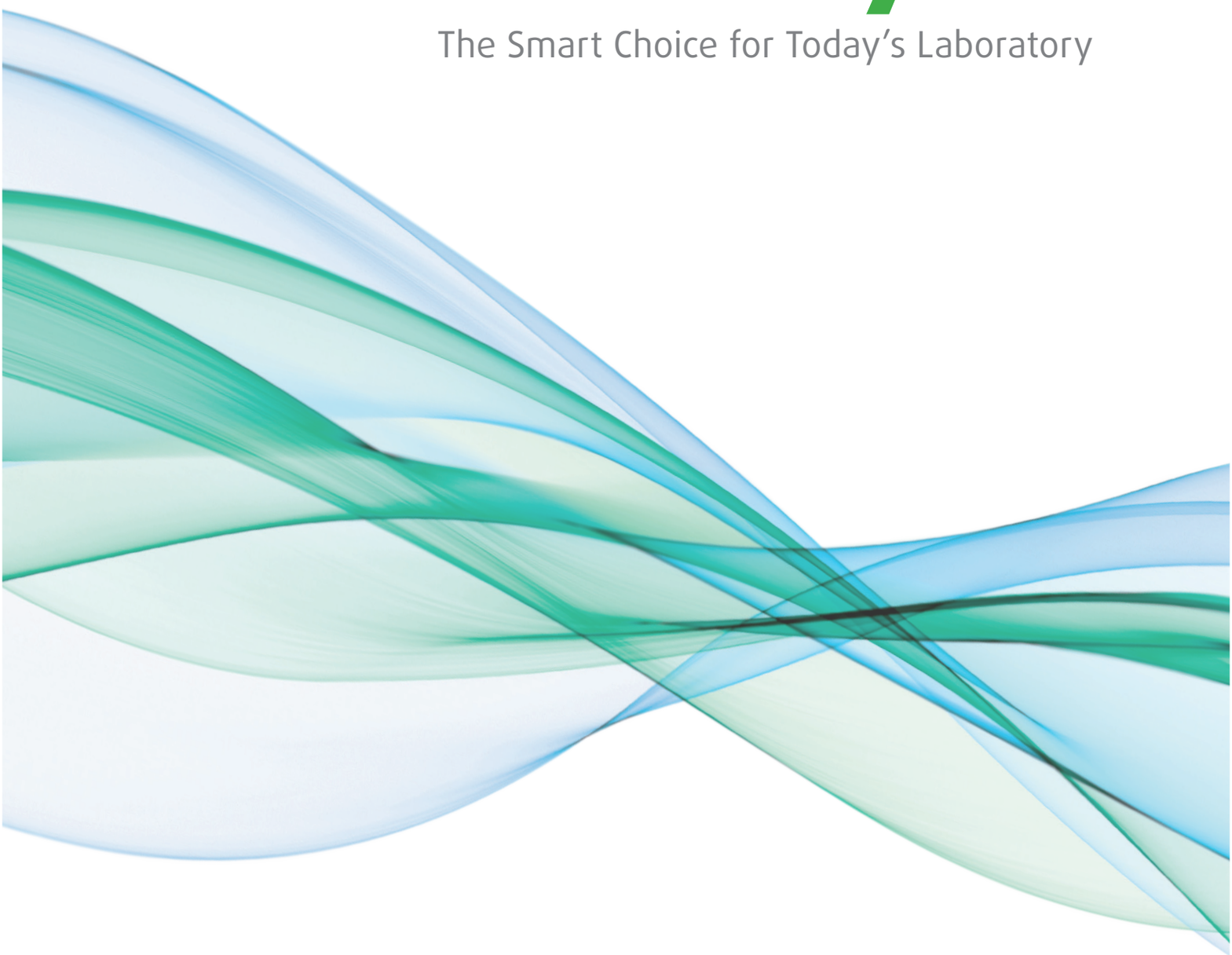
Diatron Clinical Chemistry - Affordable Quality Without Compromise

Pictus 700

The Smart Choice for Today's Laboratory



Diatron®

Pictus 700

The Smart Choice for Today's Laboratory

Analyzer Overview

Diatron is proud to introduce the newest member of the Pictus family; the **Pictus 700.** The 700 is a fully automated, random access, floor model analyzer. By utilizing a second reagent tray and second robotic arm, the 700 achieves a throughput of up to 720 tests per hour while occupying very minimal space. The unit is extremely economical requiring no external water supply, no 220V electrical requirement, and utilizes reusable cuvettes via an on board wash station. This open system is very flexible and can run most any general chemistry and drugs of abuse assays as well. The system is very easy to operate and is ideal for medium to large volume laboratories that require flexibility, high throughput, with ease of use a priority.

Key Features and Benefits

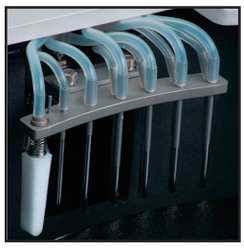
- **Efficiency** The Pictus 700 incorporates a 95 position patient sample tray reducing the number of daily runs required. It also has programmable auto dilution for those tests out of range. The reagents are very stable requiring few calibrations saving time and money. The 72 reagent positions (75 w/ISE) and on board refrigeration allow for many tests to be kept on the analyzer at the same time.
- **Cost Savings** The Pictus 700 does not need an expensive water treatment system that requires upfront cost and the continual purchase of filters. More savings can be realized by utilizing the low cost reagent, calibrators and controls reducing the overall cost per reportable result. Furthermore, the extended service costs are comparatively low versus other analyzers of this type.
- **Easy to Operate** The Pictus 700 utilizes windows based software for its operation and is very intuitive with bar coding for sample and reagent identification. It also accepts many sizes of primary tubes. Periodic maintenance is minimal and is easy to perform.
- **Space Utilization** The 700, although a floor model, takes surprisingly little space in the laboratory.

Reagent Tray

- 72 position reagent tray (75 w/ISE)
- Onboard cooling, reagents can stay on board until fully used
- Barcoded

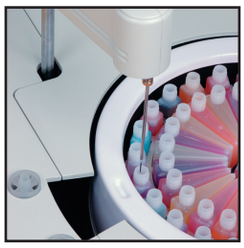
Sample Tray

- 95 position sample tray
- Accommodates many sizes of primary tubes and microtainers
- Large patient runs are easily accomplished
- Automatic barcode recognition



Wash system

- 5 position wash station
- Automatic cuvette purity check prior to use
- Reusable cuvettes for low operating cost



Dual Probe

- Dual probe allowing for speed and efficiency
- Clot, Crash and Liquid Detection on both probes
- Preheated probe for faster test times

Diatron®

Specifications

Pictus 700

Throughput

- Up to 600 tests/hour, max. 720 tests/hour with optional ISE unit

Sampling and Reagent

Samples

- Sample volume: 2 to 100 µl/tests (in increments of 0.2 µl)
- Sample tray: 95 (5 racks x 19 positions) ID bar code equipped positions for routine, stat and control samples and standard solutions
- Primary tube (13 mm diameter, length up to 100 mm)
- Pediatric vial
- Blood collection tubes

Reagents

- Maximum number of simultaneous tests: 36 double to 72 single reagent tests + 3 with optional ISE unit
- 1 to 3 reagents, 2 to 500 µl/tests each (in increments of 1 µl) final total solution volume 180 to 500 µl/test
- Reagent bottles capacities: 72 cooled positions
- Bar Code Reader for reagents

Reaction

- Water consumption: 3L/hour
- Warm air incubator: room, 30°C an 37°C
- Reaction cuvette: re-usable plastic 6 mm light path cuvettes
- Reaction time: 0 to 10 min.
- Reaction temperature 37°C + - 0.1°C
- Mixing: After dispensing each reagent

Optical System

- Double beam system
- Photometric Range: 0.1 to 3.6 A
- Measuring wavelengths: 340, 380, 405, 450, 490, 505, 550, 590, 620, 650, 700 and 750 nm
- Optional filters: 480, 570 nm
- Photometry Single or Double wavelength simultaneous reading

Analytical Modes

- End point with reagent blank
- Factor or standard calibration modes
- Priority selection by sample (profile) or by reagent (batch)
- Calibration curve with up to 10 standards
- Automatic curve fit
- Fast and two-point kinetics (zero and first order)
- Routine, batch, STAT, profiles
- Enzymes, Drugs, Turbidimetric tests
- Automatic sample dilution on abnormal levels, excessive substrate consumption and/or lack of linearity
- Import/export data, methods and historic file, quailty control and calibrator
- Automatic backup procedure
- Test selection, automatic calibration, calibration curve, multipoint calibration, polygonal
- Serum indices: sample blank compensation, calculated tests
- Quality control, auto re-run, prozone check, record of calibration, data storage (historic results)
- Automatic pre-dilution and post dilution (ratio 1:5 to 1:100)
- Stat: Highest priority in operation
- Continuous sample loading
- Decontaminating post-wash

Quality control

- Full quality control: Levy-Jennings plots, Westgaard multirules

Data Management

- WindowsTM based software
- Interface LIMS: bi-directional RC 232C, according to ASTM 1394 requirements

Power requirements

- 110/220 V, 50/60 Hz, 2.0 kVA

Dimensions

- Size (Width x Depth x Height)
  97 x 67 x 100 cm
  38.2 x 26.4 x 39.4 in
- Weight : 115 kg; 253.5 lbs

OPTIONS

ISE Unit

Na+, K+ and Cl measurements, Samples: on serum or urine.

Other electrolytes on request

PC Requirements

PC compatible with Celeron 2.4 GHz, 256 MB RAM, 40GB Hard Disc or bigger, CD ROM, Super VGA 15" Color screen, with Microsoft Windows XP, Vista, Windows 7 Operating system

Printers

Most printers supported by Windows can be connected. Printout is optimized by customer: analysis results, work list, patient sample list, quality control, calibration curves, etc.

www.diatron.com

Your Distributor

We are at your service any time.

Diatron®