



Pictus 700

The Smart Choice for Today's Laboratory



Pictus 700

Analyzer Overview

Diatron's P700 is a **fully automated, random access, small footprint floor** chemistry analyzer. Innovatively designed with 2 reaction trays and robotic arms, the system can achieve a total throughput of up to **780 tests per hour**. The P700 incorporates features usually only found in higher cost systems but without the operating expense. Designed using **state of the art electronics**, intelligent windows based software, unique SW enhancements and high performance modules. The system is a perfect combination of **reliable hardware and easy to use interface software** to provide excellent workflow and analytical performance.



Reagent Tray

- 72 position removable reagent tray
- Onboard refrigeration for maximising reagent stability
- Barcoded reagents
- Auto programmed Diatron applications



Wash system

- Optimized washing system
- Automatic cuvette check prior to use
- Reusable cuvettes for low operating cost
- Water consumption: less than 5L/hour



Sample Tray

- 95 (5 x 19) position barcoded sample racks
- Compatible with many sizes of primary tubes and micro tubes
- Real-time pre & post dilutions
- Automatic barcode recognition
- Uninterrupted workflow



Multifunctional Probes

- Dual probe allowing for speed and efficiency
- Clot, crash and liquid Detection on both probes
- Pre-heated probe for faster test times
- Variable intensity mixer for low water consumption

Key features and benefits

- **Efficiency**
 - 95 sample positions
 - 72 single reagent positions
 - First results within 45 seconds
 - Internal optional 4 channel ISE
 - Optimized walk away operation (auto cal & blank accept.)
- **Cost effective and optimized workflow**
 - Low water consumption (less than 5L/h)
 - Minimal consumable usage
 - 160 reusable PMMA reaction cuvettes
 - High throughput for a small footprint
 - Real time reagent inventory control
 - Real stat sample capacity
 - Scale monitor wash and waste system with alarms
- **Easy to operate and learn**
 - Reflex testing
 - Windows based operation system
 - Standard Windows messages & calls
 - Flexibility for reagents application
 - Sophisticated features for use and training
 - Intuitive post dilution & result checking
 - Graphically represented menus – easy to use icons
 - Autocal and auto QC features
- **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
 - Clot detector
 - Internal BCR for samples and reagents

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 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.

Throughput

- Up to 600 photometric tests/hour, max. 780 tests/hour with optional ISE unit

Samples and Reagent

Samples

- Sample volume: 2 to 100 µL/tests (in increments of 0.2 µL)
- Sample racks: 95 (5 racks x 19 positions) ID barcode equipped positions for routine, stat and control samples and standard solutions
- Primary tube (12,5 to 16 mm diameter, length up to 100 mm)
- Blood collection tubes

Reagents

- Maximum number of simultaneous tests: 36 double to 72 single reagent tests + 4 with optional ISE unit
- 1 to 3 reagents, 2 to 480 µL/reagent each (in increments of 1 µL) final reaction volume from 180 to 650 µL/test
- Reagent bottle capacities: 72 of 25, 45 and 70 mL
- Barcode Reader for reagents

Reaction

- Water consumption: less than 5L/h
- Warm air incubator: programmable up to 37°C
- Reaction cuvette: 160 reusable PMMA 6 mm light path cuvettes
- Variable not fixed reaction time
- Reaction temperature: 37°C +/- 0.1°C
- Mixing: After dispensing each reagent

System Characteristics

- Factor or wide selection of calibration modes
- Priority selection by sample (profile) or by reagent (batch)
- Calibration curve with up to 10 points (levels)
- Automatic curve fit
- Routine, batch, STAT, profiles
- Automatic sample dilution of abnormal levels, excessive substrate consumption and/or lack of linearity
- Import/export data, methods and historic file, quality control and calibrator
- Automatic backup procedure
- Autocalibration and QC features
- Sample blank compensation, calculated tests, external results
- Auto re-run
- Automatic pre-dilution and post dilution (ratio 1:2 to 1:100)
- Stat: Highest priority in operation
- Continuous sample loading
- Decontaminating post-wash

Quality control

- Full quality control: Levey-Jennings plots, Westgard multi-rules & twin Youden plots

Data Management

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

Power requirements

- 110/230 VAC, 50/60 Hz, 1,4 kVA

Dimensions

- Size (Width x Depth x Height) 97 cm x 67 cm x 100 cm 38.1 in x 26.4 in x 39.4 in
- Weight : 190 kg; 419 lbs

MEDICA ISE Module

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

PC Requirements

- Windows™ 8.1 or 10 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. Printout is optimized by customer: analysis results, work list, patient sample list, quality control, calibration curves, and more.

Your distributor

Description	Catalogue No
Pictus 700 Fully automated chemistry analyzer	P700-1
Pictus 700 with ISE - Fully automated chemistry analyzer with direct ISE module	P700-3
Pictus ISE module (module for upgrading Pictus and P models)	5008