

Solutions



# CORE

Where everything starts

Clinical Chemistry

Edif

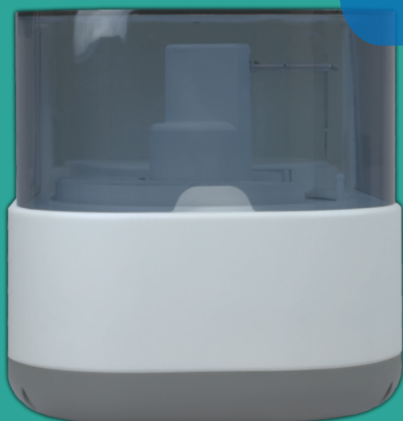
3  
YEARS  
WARANTY

**CORE**  
145 Tests/hour



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# CORE 001: Where everything starts

## Physical characteristics

SIZE/ WEIGHT	Height: 40cm (15.7in) Depth: 60cm (23.6in) Width: 38cm (14.9in)	Weight: 20kg (41.8lbs)
POWER SUPPLY	100-240 Vac, 50/ 60Hz, single phase with ground Fuses: 2 Amp @ 230 Vac, 3.15 Amp @115 VacPower consumption: less than 150 VA (external PC excluded) Ground resistance: less than 0.1Ohm Leakage current: less than 2.5mA	
SAMPLING ARM	1 sampling needle,75mm needle stroke Capacitive liquid level detector	
DILUTER SYRINGE	Long life plunger Syringe capacity, 3 68µL Syringe resolution, 0.07µL	
HYDRAULIC SYSTEM	2 self-priming peristaltic pumps (life 1000 hrs) with replaceable neoprene cassette (life 500 hrs) Optional 3 <sup>rd</sup> peristaltic pump+aspiration needle to empty reaction cuvettes Pinch valve Containers: Water,2L; Waste, 2L Water consumption: 4mL/test average	
REAGENTS TRAY	Removable reagent rack 20 bottle,38mL or 15mL Optional multiple reagent trays with worklist automatically managed by the software	
SAMPLES TRAY	Removable tray,10 numbered positions, tubes of 12-13 mm, 5-7mL/cups of 1mL (cups requires a metal adapter for level detection) Optional configuration:10 reagent positions and 20 sample positions	
CUVETTE ROTOR	4 reaction segments of 24, single use, optical cuvettes, total 96	
REACTION CELLS	Optical path 9.5 mm, 275-500µL reaction volume 100W heating resistance, temperature sensor	
OPTICAL GROUP	1 halogen lamp (6V, 10W) with extended UV emission 2 focusing lenses, optical glass  10-position filter disk: 8 positions provided with interference filters of 340, 405, 505, 546, 578, 600, 650,700nm wavelengths,  1 free position and 1 solid position for dark reading , ±2 nm on peak wavelength,band pass of ±10nm	
PHOTO AMPLIFIER	Photoelectric detector Signal amplifier Response range,320nm to 900nm Photometric range,0to3Abs Linearity ,±0.5% (0.1 to1.5 Abs) Precision: 0.5CV%(0.100 to1.500 Abs) Stability: daily reader of set, less than 1% drift per day	
CONTROL	Real-time multitasking microprocessor based control Easy access to the electronics	
EXTERNAL COMPUTER	Minimum requirements: Intel I3 family,4GB Ram Minimum 900 dots vertical resolution Graphics adapter end multithread processor Keyboard, mouse, A4printer Microsoft Windows®7 or 10 Framework: .NET framework4.6 USB port for analyzer connection Ethernet LAN port for LIS host communication External Laser A4 printer suggested Software  designed for touch screen monitor	

## Operation features

PIPETTING	Volume:sample, 2-300µL;reagent,2-350µL Precision:1.5CV%at2µL;1CV%at4µL Mixing by sample needle upon dispensation
REACTION	Reaction volume, 300-500µL Automatic test repetition with dilution
SAMPLE DILUTION	In-needle dilution if allowed by method's sample volumes Automatic pre-dilution in a reaction cuvette, up to 1:200
TEMPERATURE CONTROL	Reagent refrigeration, circa 12°C below room temperature Reaction cells, heating unit can be set from room temperature upto 42°C±0.2°C (108°F±0.5°F) Warm Uptime: 30 min from 16 °C room temperature to 38°C
TYPES OF TESTS	Endpoint, Bichromatic end point, Differential end point, Differential end points sample blank, Fixed Time, Kinetic, Kinetic Bichromatic
TEST RUNS	Random/ Urgent (sample attribute)
MEASUREMENT RATES	145 tests/ hour  Maximum incubation+reading time: 900 seconds Typical precision, end point 2.0CV% / kinetic 2.0CV%
CALIBRATION	Reagent blank subtraction, 1 to 8 standards per test method, unlimited repetitions on every calibration point Linear: factor, linear, linear regression Non linear (5 interpolation types): cubic-spline, poly-linear, multi-parameter, logit-log four parameters and five parameters Free standard/ control positions (5mL tubes or 1mL cups) Results can be recalculated when changing factor or calibration curve
MAINTENANCE	Procedures programmed by component life counters Simple yearly maintenance procedure
PRINTING REPORTS	Single test, complete sample, worksheet, method and QCs Automatic sample reports upon test completion if requested
NEEDLE WASHING	Sampling needle washed internally and externally with system solution after every operation

## Connections

POWER	Standard VDE removable power cord
EXTERNAL PC	USB port
HOST/LIS	Ethernet LAN (samples, worklist, results) Standard ASTM ASCII protocol

## Database

WORKLIST/ SAMPLES	For each worklist: unlimited number of samples, unlimited number of tests, upto 99 sheets of tests per worklist. Tests archive with powerful search tools Patient management
TEST METHODS	Unlimited number of methods in PC memory 100 active methods
QUALITY CONTROL	Three-level controls per test, one month monitoring Reagent/calibrator/control lot monitoring, Exclusion of failing results from graphic and statistics
ERROR LOG	Automatically stored at run-time, can be viewed or printed Powerful on-line monitoring