

bt
products



bt35i
Clinical Chemistry Analyzer

bt 35i is a full automatic and completely open system Clinical Chemistry Analyser designed for the requirements of the middle sized and small hospital's clinic laboratories. With no requirement of the consumables and low reagent consumption, it reduces the cost, as well as providing an easier usage with the stable liquid bt products labelled reagents, which are manufactured in the original reagent bottles of the analyser.

- Continuous sample loading
- Refrigerated reagent unit
- 600 tests in an hour with ISE
- Sample and reagent barcode reading
- Original ISE with Na, K, Cl and optional CO₂
- Random Access, batch and stat
- Pre-dilution and automatic dilution and reassaying
- Limited and minimum water consumption
- Sample loading in primary tubes
- Liquid level sensors in probes
- Touchscreen colored LCD display
- Minimum reagent consumption
- Clot detector
- HIS ve LIS connection
- Floor standing

Reagent Unit	24 hour continuous refrigerating with peltier system, 80 refrigerated positions for various volumes of reagent bottles
Barcode Reader	Two different barcode readers for the automatic determination of reagent and sample
Sample Tray	78 sample positions for loading with primary tubes and sample cups
Liquid Level Detector	User warning system in case of sample and reagent volume decreasing and finishing by observing the resting volumes
Operational system	Ease to use and simple menus with Windows2000 Pro-operational system
Stat	Stat loading and assaying during routine operation in required numbers and positions
Reader Unit	45 pieces of optical glass cuvettes reuseable after an automatic washing of the equipment and temperature stabilising at 30, 32 and 37°C with peltier heaters
Probs and Clot Detector system	2 probs for sample and reagent aspiration with liquid sensors, which can make pre-heating and mixing. Clot Detector in both probes.
ISE Unit	Na, K, Cl and optional CO ₂ assaying with direct potentiometric method with membrane type electrodes with no need of maintenance.
Quality Control	Daily or periodically, mean, standart deviation and variation coefficient calculating and observing with Levey Jennings curve by a developed quality control programme
Remote control	Easy communication and service opportunity with the remote control and intervention via internet.
Archieve data	With a 80 GB memory capacity, minimum 300.000 patient results can be stored



SYSTEM SPECIFICATIONS

Test Mode	Full Automatic, Random Access, Batch, STAT (urgent)
Test Speed	360 photometric, 600 tests/hour with ISE
Methods	End-point, fixed time, kinetic, ISE
ISE Module	Original, Na, K, Cl and optional CO ₂
Test Programming	500 different tests

REAGENT UNIT

Reagent Tray	80 positions with continuous refrigerating
Reagent Bottle Capacity	40 pieces of 50 ml or 80 ml, 40 pieces of 10 ml or 20 ml
Reagent Volume	For R1 and R2: between 1 µl - 360 µl (0,1µl increments)

SAMPLE UNIT

Sample Tray	Totally 78 sample positions (62 normal. stat and 16 standards, controls)
Sample Volume	Between 1µl - 50 µl (0,1µl increments)
Sample Loading	Continuous

REACTION and OPTICAL SYSTEM

Reaction Volume	Min: 180 µl, max: 360µl
Reading Cuvettes	45 pieces of optical glass cuvettes
Cuvette Washing	Automatic cuvette washing
Photometer	10 different wavelength filters at 340-700 nm+ reference filter
Photometer Accuracy	±1%(0-2 O.D.) ±2 %(2-3 O.D.)
Photometer Sensitivity	±0.001 Abs
Operation Temperature	30, 32 ve 37°C (±0,2°C) with Peltier system
Mixing	Available

PROBE SYSTEM

Probe Number	2 for sample and reagent
Clot Detector	2 for sample
Probe Cleaning	Automatically in and out washing

DATA PROCESSING and QC

PC - Hardware	Cpu Centrino 1,6Ghz DVD Writer. Floppy HDD 80 Gb
Monitor	Colored LCD, 12"
Display	Touchscreen, glass protected
Keyboard - Mouse	Wireless
Operator	11 units of microcontroller, I ² CBUS protocol
Software	Windows 2000 Pro
Interface	RS 232, bilateral connection + 2USB
Quality Control	3 know levels, 3 unknown levies
Remote Control	Available via Internet

OTHER SYSTEM SPECIFICATIONS

Reassaying	Sample diluted, automatic without dilution
Vacuum Pumping System	External
Barcode	2 for reagent and serum
Maintenance	Automatic Maintenance Programme
Power Supply	90/240 volt, 590 Watt. PFC
Dimensions	Height: 128 cm, Width: 100 cm, Depth: 59 cm
Weight	145 kg

