



BT 4500

RANDOM ACCESS CHEMISTRY ANALYZER

blotecnica instruments s.p.a.

BT4500

The **BT4500** is a new floor model Clinical Chemistry that includes a built-in four parameter I.S.E. module.

The analyzer has a throughput of 450 test/hr. for clinical chemistry and a throughput of 240 test/hr. for I.S.E testing, providing up to a combined throughput of 690 test/hr.

The analyzer has three sampling arms, one for samples, and two for reagents. The samples tray allows for 100 position and the refrigerated reagents plate is designed with 40+40 positions. A dedicated container is available for lysing solution and three additional containers are available for auxiliary sample dilution solutions.

The sampling arms are equipped with a new mechanical design for the detection of any obstruction and a new device for quick movement of the needle, allowing for efficient mixing reagents and solutions. The positioning of the arms makes use of new high-precision encoders. All sampling arms come equipped with clot detection sensors which can monitor the operations of each cycle of the machine indicating hydraulic malfunctions.



THROUGHPUT	up to 450 Tests/hr Clinical Chemistry; up to 690 Tests/hr with I.S.E.
I.S.E. MODULE	Direct on Serum (Na, K, Cl, Li), Pre-diluted Sample on Urine (Na, K, Cl) Micro Sample
NUMBER OF REAGENT	(40+40) 80 Total
REFRIGERATED REAGENT BAY	Yes
REACTION VOLUME	from 180 to 400 µl
SAMPLE VOLUME	from 1,5 to 100 µl
READING CUVETTES	84 non-disposable optical glass
SAMPLING ARMS	1 for Serum, 2 for Reagents
SAMPLES TRAY	Total of 100 Samples in 4 Segments
STD & CONTROLS TRAY	26 Calibrator & Controls Positions, Refrigerated
TEST MODES	Sequential Access, Batch, STAT
TEST DIRECTORY	Up to 500 + Relation Test
CUVETTE TEMP.	Control Peltier Dry Heating System OFF/37°C
VACUUM PUMP	System Internal
PHOTOMETER	Solid State 13 Channel 340-800 nm
ABSORBANCE RANGE	0 - 3 Abs (10mm Conversion)
PHOTOMETER SENSITIVITY	± 0.001 Abs
DILUTER	1 x 220 µl, 2 x 470 µl (Long Life Ceramic)
DILUTER RESOLUTION	± 0,1 µl for Serum ; ± 1 µl for Reagents
BAR CODE	Internal For Reagents & Sample
LIQUID LEVEL SENSOR	Yes
CLOT SENSOR	Yes
CRASH SENSOR	Yes
COMPUTER	External PC
PERIPHERALS	Inkjet Printer & UPS
INTERFACE	USB - RS232 Bidirectional + TCP/IP
QC PROGRAM	3 Known Levels, 3 Unknown Levels
MAINTENANCE	Software Assisted
POWER SUPPLY	Universal input 100/240 Volt, 50-60 Hz, 400 Watt, PFC
U.P.S.	1200 Watt
DIMENSION	115 cm (W) - 115 cm (H)-72 (D)
WEIGHT	120 Kg

TECHNICAL SPECIFICATIONS EXTERNAL PC

OPERATIVE SYSTEM	Windows 7 (64 bit)
COMPUTER	IBM compatible
PROCESSOR	Pentium Dual core duo
RAM	2 GB
VIDEO	SVGA or compatible, 32K colors
DISPLAY	Color resolution: 1280x1024
MOUSE	Serial, PS2, USB
HOST COMMUNICATION	RS232, TCP/IP
USB	1, version 2.0
PRINTER	Windows 7 compatible Inkjet or Laser
CD ROM	DVD reader