

BT3500

TECHNICAL SPECIFICATIONS

ANALYSES TYPE	Clinical Chemistry, Turbidimetric, DOA, I.S.E.
THROUGHPUT BT3500	up to 360 Chem. Tests/hr + up to 190 ISE Tests/hr
THROUGHPUT BT3500S	up to 360 Chem. Tests/hr + up to 240 ISE Tests/hr
WATER CONSUMPTION	1620ml/hr±20%
ISE MODULE BT3500	Na, K, Cl, CO ₂ indirect potentiometry serum & urine
ISE MODULE BT3500S	Na, K, Cl, Li direct potentiometry serum, diluted urine
NUMBER OF REAGENTS	80 Total 40 using 50 or 80 ml vessels 40 using 10 or 20 ml vessels
REFRIGERATED REAGENT BAY	Yes
REACTION VOLUME	from 180 to 400 µl
SAMPLE VOLUME	from 1.8 to 100 µl
READING CUVETTES	45 non-disposable optical glass
SAMPLING ARMS	2, for Serum and Reagents
SAMPLE TRAY # OF POSITIONS	78 Total 62 Samples –16 Standards and Controls
TEST MODES	Random Access, Batch, STAT
TEST DIRECTORY	Up to 500
CUVETTE TEMP. CONTROL	Peltier System OFF/30/32/37°C (± 0.2° C)
VACUUM PUMP SYSTEM	External
PHOTOMETER	Solid State 10 Channel+reference channel (340,380,405,436,480,510,546,578,630,700nm)
PHOTOMETER LINEARITY	Up to 3.0 O.D.
PHOTOMETER SENSITIVITY	± 0.001 Abs.
DILUTER	2 – Long Life Ceramic 340 µl
DILUTER ACCURACY	± 0.1% f.s.
DILUTER RESOLUTION	0.1µl
CLOT SENSOR	2 – one for each sampling arm
BAR CODE	2 – Reagent and Serum
BUILT IN QC PROGRAM	3 Levels Known, 3 Levels Unknown
MAINTENANCE	Software assisted
VETERINARY VERSION	OPTIONAL
COMPUTER	Internal Windows® PC 
PROCESS ELECTRONICS	12 microcontrollers. I ² C BUS protocol
DEVICES	DVD, HUB USB, HD>100 Gb
OPERATIVE SYSTEM	Windows® XP Pro or later
PERIPHERALS	OPTIONAL, on request printer & UPS
MONITOR	Color LCD 12"
TOUCH-SCREEN	Glass Protected, resistive
KEYBOARD & MOUSE	International
INTERFACE	RS232+USB+LAN+VGA+Ethernet
REMOTE DIAGNOSTICS (MODEM)	Optional
POWER SUPPLY	Universal input 100/240 Volt, 50-60 Hz, 590 Watt, PFC
DIMENSIONS	Height – 27", Width – 40", Depth – 23" (68x100x58cm)
WEIGHT	210 lb (95 Kg)

Rev. 3/2015

Features may change without notice.

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RANDOM ACCESS CHEMISTRY ANALYZER



THE ANALYZER SOFTWARE IS BASED ON WINDOWS® OS, INTUITIVE AND EASY TO USE. IT CAN WORK 24/24HRS, PERFORMING ROUTINE OR URGENT (STAT) SAMPLES (SERUM, PLASMA, URINE) IN RANDOM ACCESS.



Besides Clinical Chemistry the analyzer can perform Turbidimetric tests, as well as Drugs of Abuse dosages. The I.S.E. module is available for indirect potentiometry K, Na, Cl, CO₂ or direct potentiometry K, Na, Cl, Li.

Samples and reagents can be identified via bar-code. Programming as well as reading and positioning of samples can be performed via LIS or manually. Reagents can be ready-to-use or concentrated. The refrigerated Reagents chamber ensures the reagents a longer stability.

Depending on the User-defined programming, the analyzer can automatically repeat with dilution the Hyperactive samples and repeat the Pathological samples. Samples can be pre-treated as well as post-treated.

Calibrations and QC have a programmable timer-driven reminder. The analyzer has its own QC, Population and Patients Archives, for statistical data elaboration and Patients Reports printing. Maintenance is software assisted.

The arms (1 for samples and 1 for reagents) are equipped with a liquid detection sensor and an encoder for correct positioning. Reagents status is continuously monitored.

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