



# BT4500

## FULLY AUTOMATED CLINICAL-CHEMISTRY & TURBIDIMETRY ANALYZER

### KEY FEATURES

- The BT4500 is a floor model Clinical Chemistry and immuno-turbidimetry analyser with a throughput of 420 Tests/hour.
- Efficient on-board cooling and washing system.
- Barcode identification for both reagents as well as samples.
- Dedicated auto-diagnostic function to help the operator in maintenance of the analyser.

### TECHNICAL SPECIFICATIONS

<b>Operating Mode</b>	Sequential access
<b>Methods</b>	Clinical Chemistry & Immuno-Chemistry
<b>Test Mode</b>	Routine, Batch, Emergencies (STAT), Profiles.
<b>Tests in memory</b>	500
<b>Test Re-runs</b>	Automatic or on demand
<b>Calibrations and Controls</b>	With time-programmable notification or on demand.
<b>Quality Control</b>	3 known levels and 3 unknown levels
<b>Tests on line</b>	80 refrigerated reagents + relation test (40 large + 40 small bottles)
<b>Measurement</b>	Direct reading of 84 cuvettes in optical glass
<b>Samples Tray</b>	100 samples positions
<b>Standard &amp; Controls Tray</b>	26 refrigerated positions
<b>Sampling arms</b>	1 arm for Samples, 2 arms for Reagents
<b>Bar code scanner</b>	2 distinct barcode scanners for positive identification of samples and 1 for reagents
<b>CUVETTE OPERATING TEMPERATURE</b>	
<b>Temperature</b>	OFF / 37 °C
<b>Precision</b>	± 0.2°C
<b>Accuracy</b>	± 0.2°C
<b>REAGENT CHAMBER TEMPERATURE</b>	
<b>Nominal Temperature</b>	Between 5°C and 15°C Approx. (depending upon the setting)
	Temperature Monitoring Device based on Peltier Effect
<b>DILUTORS</b>	
<b>Max Volume</b>	3 long life ceramic:2x470 µl (reagents) and 1x340µl (sample)
<b>Accuracy</b>	± 0.1% F.S. (Full Scale)
<b>Resolution</b>	± 0.1µl %
<b>Maintenance</b>	Every 300,000 operating cycles (O-ring seal replacement)

<b>PHOTOMETER</b>	
<b>Optical System</b>	Solid state 14 channels 340-800nm + reference channel
<b>Detectors</b>	14 UV/VIS photodiodes + reference channel
<b>PRECISION AND ACCURACY</b>	
<b>Photometric accuracy</b>	± 1% from 0 to 2.000 O.D.
<b>Absorbance range</b>	Up to 3.0 O.D.
<b>Photometric Sensitivity</b>	± 0.001 ABS
<b>Photometric Lamp</b>	Tungsten Halogen Lamp with Dichroic Reflector
<b>Beam Angle</b>	9°
<b>Power</b>	50 Watts
<b>Input voltage</b>	12 VDC
<b>Average Rated Life</b>	Approximately 2500 hours
<b>ANALYZER POWER REQUIREMENTS</b>	
<b>Universal Input</b>	100-240 V~ 50-60 Hertz
<b>Power</b>	1000 Watt
	PFC Unit (Power Factor Correction) included.
<b>DIMENSIONS &amp; WEIGHT</b>	
<b>Dimensions</b>	Height 118 cm (46.4"), Width 124 cm (48.8"), Depth 77cm (30.3")
<b>Weight</b>	162 kg (357 lb)
<b>Cat No.</b>	T130000016

#### LIST OF STANDARD ACCESSORIES SUPPLIED ALONG WITH THE INSTRUMENT

<b>Sr. No.</b>	<b>Components</b>	<b>Quantity</b>
01	SAMPLING NEEDLE KIT "R1/R2"	1 No.
02	BT 4500S/V NEEDLE KIT	1 No.
03	POWER CORD	1 No.
04	CUVETTE 7MM	10 Nos.
05	FUSE 10A T 250V	2 Nos
06	POWER CORD FOR PERIPHERAL DEVICES	2 Nos
07	QUARTZ HALOGEN LAMP 12V 50W 9"	1 No.
08	CLEANING TOOL FOR ARM NEEDLE	1 No.
09	CUBITAINER WITH BOX 10 LITRES	4 Nos.
10	PISTON GRIP SLEEVE	1 No.
11	SAMPLE CUP 2ML	1000 Nos.
12	BOTTLE 70ML HI01-70 (WITH CAP BT 4500)	3 Nos.
13	WHITE BOX 36x26x19CM	3 Nos.
14	CAP OPENER	1 No.
15	FUNNEL CAP OPENER INSTRUCTIONS	1 No.