

Specifications

Type	Benchtop fully automated random access analyser	
Usage	Immunology as photometric assay (Latex reagents available)	
Assay type	End point with or without sample blank, 2 points and Rate	
Throughput	180 tests per hour / 450 test per hour with ISE	
Incubation time	Five minutes after applying sample for one reagent assay	
Sample type	Five minutes after applying second reagent for two reagents assay	
Sample input system	Type:	Removable tray with sample tube holder on a turntable
	Capacity:	Up to 40 samples (handling of STAT available)
	Identification	Sample barcode reader
Sampling pipette	Type:	Micro-pipette with liquid level detector and crash sensor
Sampling pump	Type:	Micro syringe
	Volume:	2 to 35 µl (increment by 1 µl)
Reagent system	Type:	Removable tray with reagent bottle holder on turntable
	Capacity:	40 reagent positions on a tray
	Identification	Reagent barcode reader
	Inventory:	Calculation of remaining reagent volume available
	Cooling:	Cooling with Peltier element
Reagent pipette	Numbers of pipettors:	One
	Type:	Micro-pipette with liquid level detector and crash sensor
	Rinsing:	Inside and outside with purified water
	Number of reagents:	Up to two reagents
Reagent pump	Type:	Micro syringe
	Volume:	20 to 400 µl (increment by 5 µl)
Cuvette system	Type:	Reusable with on board washing system
	Material:	Pyrex
	Vol. for measurement:	≥180 µl
	Maximum volume:	500 µl in total
Detector cuvette	Method:	Direct measurement of absorbance in cuvette
		Bichromatic or Monochromatic
	Wavelength:	8 selectable from 340 nm to 700 nm
	Light source:	Halogen tungsten lamp
Stirring system	Type:	Stick type rotating stirrer. Number of mixers: 2
Other optional features	Integrated ISE measurement unit : Na, K, Cl.	
Purified Water	Consumption	Approx. 6.5 l/hour
	Quality	Distilled water or ion exchange water passed through reverse osmosis
	Pressure	No supply pressure
LIS interface	ASTM compliant	Batch and host query
Management system	Windows XP Professional, PC compatible	
Dimensions (Analyzer only)	Ethernet network board with TCP/IP protocol	
Weight	770 mm (W) x 620 mm (D) x 550 mm (H) (30.3" x 24.4" x 19.7")	
	135 kg	
Power supply requirements	Voltage	100-240V automatic conversion
	Frequency	50/60Hz
	Power consumption	< 700 VA / 420 W
	"on line" UPS recommended	

QUANTEX PROFILE

SERUM PROTEINS:

CRP
RF
ASO
CRP ultra sensitive
IgA
IgG
IgM
IgE
C3
C4
Ferritin
Transferrin
sTfR
Myoglobin
Lp(a)
B2-microglobulin
α-1- acid glycoprotein
Haptoglobin
α-1-antitrypsin
HbA1c

URINE PROTEINS:

Microalbumin

INFECTIOUS DISEASES:

Toxo
Rubella

TDMs:

Digitoxin
Digoxin
Phenobarbital
Phenytoin
Valproic acid
Carbamazepine
Theophylline
Gentamicin
Amikacin

when the quality counts !

bqa

biokit quantex analyzer





BQA – Biokit quantex analyser – is a fully automated, benchtop, random access **turbidimetric system** that functions as a high-quality serum protein and TDM analyser.

flexibility

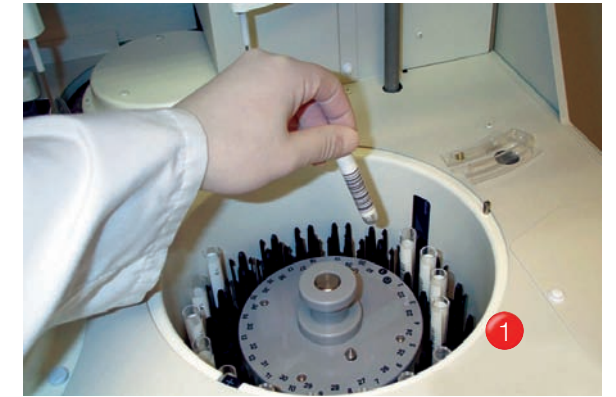
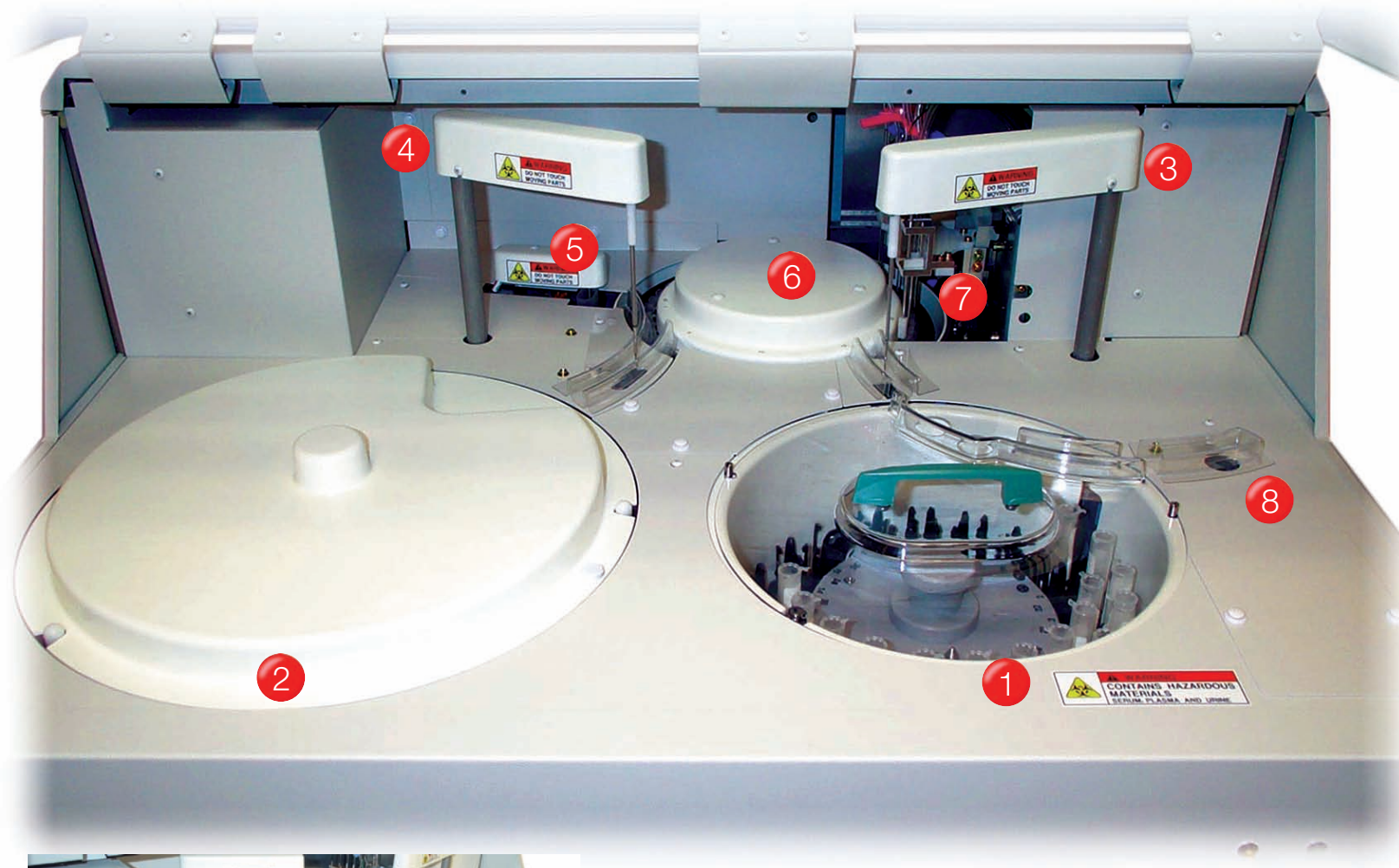
BQA has the flexibility to fit into all laboratory structures.

**Small – medium labs:* used as the main instrument, for standard biochemistry parameters and specific proteins assays. All tests can be run in the BQA with the better performance.

**Big labs:* As a satellite instrument, dedicated to do all the special assays that do not fit in your high volume routine without losing quality.

economy

The combination of a minimal final reaction volume of 180 µl and a good precision and accuracy with only 2 µl of sample, reduces reagent consumption and saves operating costs.



high level performance

BQA is not just another biochemistry instrument. Its development has been specially oriented to perform and read **latex** and **antisera** reactions with the best possible quality.

- 1 **Sample tray.** The removable tray allows to fit up to 40 samples and the management of STAT. Different primary tubes sizes and cups fit in the sample tube holder. Positive sample identification is assured by barcode reader. Software allows continuous sample loading.
- 2 **Reagent tray:** The removable and refrigerated reagent tray can hold 40 reagent vials with a capacity of 20 or 100 ml. The instrument allows the positive reagent identification by barcode reader.
- 3 **Sample probe.** Sample micro-pipette volume range covers from 2 to 35 µl. Carry over and cross contamination is avoided by washing the probe internally and externally between sample pipetting.
- 4 **Reagent probe.** Reagent pipette volume range covers from 20 to 400 µl. Carry over and cross contamination is avoided by washing the probe internally and externally between pipetting.

Probes: Both, sample and reagent probes have liquid level detection to avoid mis-pipetting.

- 5 **Stirring.** A double rotating stirrer system is used to mix components and achieve an optimal homogenisation in minimum time. Selectable speed.
- 6 **Reaction cuvettes.** The reaction disk holds 45 individual pyrex reaction cuvettes with a 6 mm light path. The on-board washing system ensures all cuvettes are washed and dried. The cuvette system is temperature controlled to 37 °C using a dry heating system.

Photometric system: The photometric unit is composed of a filter wheel with capacity for up to 8 filters. The standard filters are 340, 405, 450, 510, 546, 570, 600 and 700 nm. A tungsten halogen lamp is used as light source. Monochromatic and bicromatic readings are possible.

- 7 **Washing station.** The wash station guarantees the cleaning of the cuvettes using twice washing steps with detergents, and four times rinsing with purified water. A final aspirate and a complete drying are ending this process. It includes overflow sensor for each needle.
- 8 **ISE: Ion Selective Electrode unit.** The concentration of electrolyte (sodium: Na, potassium: K, chloride: Cl) contained in serum, plasma or urine is measured by the ion electrode of the ISE unit which is placed on the right-hand side of the analyzer. This unit is optionally supplied.

New Turbidimetric System!