Technical Specifications

Throughput 200 Tests / hour ISE (Optional) 300 test / hour

System Functions

Sample Types

Analysis method End Point, Fixed Time (2-point), Kinetic Rate-A, Kinetic Rate-B, Sample/ Reagent blanking, ISE Colorimetry, Turbidimetry, Single and Double reagent, Multi Standard, Mono and Bi - Chromatic Assay modes

Serum, Plasma, Urine, CSF

Sample / Reagent processing

Sample position

2 - 50 µl (Adjustable in 0.1 µl step) Sample volume

Sample dilution 2 to 40 times

45 for R1 and R2 Reagent position

Reagent 1: 180-350 µl (Adjustable in 1 µl step) Reagent volume Reagent 2: 0 or 10-350 µl (Adjustable in 1 µl step)

Mixing by paddle or by aspirate-dispense of reaction volume

Reaction System

Reaction cuvette 60 (Permanent Hardglass Cuvettes)

On board laundry with 7 step washing system Cuvette washing

Water consumption 6 litres / hour Optical length of cuvette 6.5 mm 180 - 550 µl Reaction volume

For one Reagent chemistry incubation time is & 30-600sec and for 2 Reagent Reaction time

Chemistry it is 30-300sec for each reagent

37°C ± 0.2° C Reaction temperature

Optical System

Wavelength

Auto re-run

Measurement principle

Tungsten halogen lamp (12V 20 W) cooled with air option for auto on/ off of lamp Light source

Total 9 filters (340, 405, 450, 510, 546, 578, 620, 670, 700 nm)

Detector Silicon photodiode 0 - 3.0 Abs

Absorbance range Resolution 0.0001 Abs

Calibration K-Factor, Linear (one, two and multi point), Logit-log, Spline, Exponential,

Polynomial (second, third and fourth order)

Calibration points Multipoint curves for up to 6 points execution by repeat run list or auto execution

Auto execution according to abnormal marking or range over

Data Storage Test results: Unlimited tests

> Reaction curve: Unlimited tests Profiles: 20 per sample type

Within day as well as day-to-day X and X-R control diagram (L-J Graph)

Real time quality control based on Multi-rule method mean, SD, %CV, R is calculated for all Quality Control parameters for sample replicates. Daily and monthly batch QC with data archiving.

Working Conditions

110/220 VAC, 50/60 Hz (Max. Power 250 W) Power supply

10° C - 30° C Temperature

40% - 80% free from water dew formation Humidity

Operation System Input and Output

Output

Windows XP, Windows 7, Windows 8, Windows 10 or Winfix

RS 232 interface/computer

Multiformat printout

Dimensions 736mm (L) x 553mm (W) x 432mm (H)

Approx. 55 kgs

Meril Academy



While innovations and advancements play a vital role in contributing towards better health of the society, a larger role also lies in educating and imparting to pathologists, clinicians, technicians and other members of the medical fraternity.





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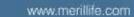
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AutoQuant 200 Excelus®







Meril Diagnostics endeavor to manufacture most of the products in-house witnesses the launch of AutoQuant 200 Excelus® bench top fully automated random access chemistry analyzer with a throughput of 200 tests per hour, its unique compact model with inbuilt laundry and cooling facility for Reagents makes it ideal for a medium size laboratory for routine tests and as backup for bigger laboratories.

It's unique software, feature of user defined reflex action and many other features makes it user friendly Fully Auto Analyzer.

Reagent & Sample Tray

- 45 refrigerated reagent positions & 45 sampling positions concentrically arranged
- Reagent & Sample positions are bar code enabled
- Detachable Reagent Tray
- Peltier based cooling system to maintain temperature between 8°C to 12°C
- 20 ml Reagent bottles
- Primary tubes & samples cups can be used
- Continuous loading
- STAT/controls/calibrators can be placed at any position



iqure 1

Sample probe, Reagent probe & Stirrer

- · Hydrophobic probes which prevents cross contamination
- Internal & external prob washing
- Probe carry over < 3%
- Capacitive level detection
- · Vertical and horizontal obstruction detection facility to prevent probe crash
- · Long life pipetting system with plunger driven by precised stepper motor
- · Electropolished stirrer



Figure. 2

Reaction & Optical System Unit

- 60 Permanent Hard Glass cuvettes
- Cuvette material which ensures high transmittance
- 7-step on board washing, carry over < 1%
- · Continuous cuvette blank checking, if blank exceeds the limit, cuvette is skipped

Software

- User friendly software
- · Online curve for all types of chemistries
- User defined reflex action ensures time management
- Pre-dilution & Auto-dilution facility
- Real Time online monitoring for running status of -Sample tray
- -Reagent tray
- -Reaction cuvette
- -Reagent Inventory

Cooling System for Peltier

- · Water based cooling system for peltier
- · Prolongs the life of peltier
- · Ensures high onboard stability of Reagents
- Reduces the internal heat dissipation of instrument

Excelus Works, You relax...



Accuracy:

On board cooling and On board laundry system

Option of three different wash for forbidden pairs to minimize the carry over

High Precision:

Meril cutting edge technology for volume measurement by ceramic block piston

Convenience:

Intuitive software of reflex testing and dedicated system packs

Flexibility:

Processing of emergency samples cen be dealt on priority with STAT function

Ease of operation:

Windows based software, compact design

AutoQuant System Reagents

Mat Code	Material Description	Pack Size
ALBAQ1-01	ALBUMIN	6 x 20 ml
AMYAQ1-01	AMYLASE	4 x 20 ml
ALPAQ1-01	ALKALINE PHOSPHATASE	4 x 15 ml
GPTAQ1-01	ALAT (GPT)	6 x 20 / 6 x 5 ml
GOTAQ1-01	ASAT(GOT)	6 x 20 / 6 x 5 ml
BITAQ1-01	BILIRUBIN TOTAL	5 x 15 / 5 x 5 ml
BIDAQ1-01	BILIRUBIN DIRECT	5 x 15 / 5 x 5 ml
CAAAQ1-01	CALCIUM (A)	4 x 20 ml
CREAQ1-02	CREATININE	5 x 15 / 5 x 15 ml
CKNAQ1-01	CREATINE KINASE NAC	2 x 20 / 2 x 5 ml
CKMAQ1-01	CREATINE KINASE MB	2 x 20 / 2 x 5 ml
CHOAQ1-01	CHOLESTEROL	6 x 20 mi
HDLAQ1-01	HDL CHOLESTEROL (Direct)	2 x 18 / 2 x 6 ml
LDLAQ1-01	LDL CHOLESTEROL (Direct)	1 x 18 / 1 x 6 ml
CHDAQ1-01	CHLORIDE	4 x 20 ml
GGTAQ1-01	g-GLUTAMYL TRANSFERASE	1 x 20 / 1 x 5 ml
GLUAQ1-01	GLUCOSE	10 x 20 ml
LDHAQ1-01	LACTATEDEHYDROGENASE	1 x 20 / 1 x 5 ml
MAGAQ1-01	MAGNESIUM	4 x 20 ml
PHOAQ1-01	PHOSPHORUS	4 x 20 ml
TPRAQ1-01	TOTAL PROTEIN	6 x 15 ml
MTPAQ1-01	MICROPROTEIN	4 x 20 ml
TRGAQ1-01	TRIGLYCERIDE	6 x 20 ml
URCAQ1-01	URIC ACID	4 x 15 ml
UREAQ1-01	UREA	6 x 20 / 6 x 5 ml
MALAQ2-01	MICRO ALBUMIN	2 x 20 /2 x 5ml
CRPAQ2-01	CRP	2 x 20 /2 x 5ml
LIPAQ2-01	LIPASE	1 x 20 / 1 x 12 ml
HBAAQ2-01	HbA1c	2x15/2x5.5/1x75/4x0.5 ml

Controls & Calibrators:

CRNCNC-01	BioNorm	1 x 5 ml
CRPCNC-01	BioPath	1 x 5 ml
CALCNC-01	Bio Cal	4 x 3 ml