

Excelus Works, You relax...

AutoQuant 200 ExcelusTM



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Meril Diagnostics endeavor to manufacture most of the products in-house witnesses the launch of AutoQuant 200 ExcelusTM bench top fully automated 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 a backup for bigger laboratories. Its unique software, feature of user defined reflex action and many other features makes it user friendly Fully Auto Analyzer.

Reagent & Sample Tray

- 30 refrigerated reagent positions & 30 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

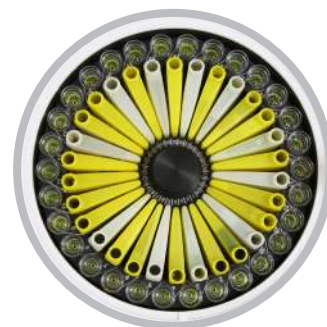


Figure. 1

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
- Single Teflon coated stirrer



Figure. 2

Reaction & Optical System Unit

- 60 discrete, dismountable, easily replaceable and reusable cuvettes with 6 mm optical path
- Cuvette material which ensures high transmittance
- 7-step on board washing
- Hot Water wash of cuvettes, 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 can 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 ml
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

Technical Specifications

Throughput	Double Reagent : Max 200 Tests / hour Single Reagent : Max 240 Tests / hour ISE Optional
System Functions	End Point, Fixed Time (2-point), Kinetic Rate-A, Kinetic Rate-B Assay modes Colorimetry, Turbidimetry, Single and Double reagent, Multi standard, Mono and Bi – Chromatic
Sample / Reagent processing	Sample position 30 Sample volume 2 - 50 μ l 0.1 μ l step Sample dilution 2 to 40 times Reagent position 30 for R1 and R2 Reagent volume Reagent 1: 180-350 μ l (Adjustable in 1 μ l step) Reagent 2: 0 or 10-350 μ l (Adjustable in 1 μ l step)
Reaction System	Reaction cuvette 60 (semi-disposable) Cuvette washing On board laundry with 7 step washing system Water consumption 5 - 6 litres / hour Optical length of cuvette 6 mm Reaction volume 180 - 550 μ l Reaction time 30 to 600 sec (Depending on the designated cycle time & number of reagents) Reaction temperature 37°C \pm 0.2° C
Optical System	Measurement principle Photometry Light source Halogen Tungsten lamp with fiber optics Wavelength Total 9 filters (340, 405, 450, 510, 546, 578, 620, 670, 700 nm) Detector Silicon photodiode Absorbance range 0 - 3.0 Abs 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 re-run 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)
Quality Control	Real time quality control based on Multi-rule method mean, SD, %CV, R is calculated for all parameters for sample replicates
Working Conditions	Power supply 110/220 VAC, 50/60 Hz (Max. Power 250 W) Temperature 10° C - 30° C Humidity 40% - 80% free from water dew formation
Operation System Input and Output	Windows XP, Windows 7, Windows 8, Windows 10 or Winfix RS 232 interface/computer Input Multiformat printout Output
Dimensions	550 mm (W) x 420 mm (D) x 380 mm (H)
Weight	Approx. 23 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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