




About Us

GCMED CORP. is a licensed and duly registered Corporation engaged in the marketing and distribution of highly technical medical products. It is wholly owned Filipino Distributing Corporation whose vision is to provide affordable and quality products and supply that would certainly be of assistance to the pharmaceutical needs of the nation and also engage in diagnostic laboratory equipment.

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FULLY-AUTOMATED CHEMISTRY ANALYZER MERIL 400i



Meril 400i

Fully-Automated Chemistry Analyzer

Automated clinical chemistry analyzer designed to deliver fast, accurate, and reliable diagnostic results for medium- to high-throughput laboratories. It supports a wide range of biochemical assays, features user-friendly operation, and incorporates advanced optical and reagent management systems to ensure consistent performance and efficient workflow.

Features

- Throughput: 400 Tests / hour
- Analysis Modes: End Point, Fixed Time (2-point), Kinetic Rate-A, Kinetic Rate-B
- Measurement Principles: Colorimetric (Rate & End point), Turbidimetry Immunoassay
- Facility of STAT function from any free position
- 75 Sample Positions with barcode identification
- 60 Reagent Positions maintained by water cooled refrigeration unit with barcode identification
- Two Reagent Probes and 1 Sample Probe
- 80 Semi Disposable Cuvettes, with cuvette check function before testing
- 9 Static Filters (340, 405, 450, 510, 546, 578, 620, 670, 700 nm)
- User defined Reflex Testing
- User defined Forbidden Pairs
- 7-step Laundry System
- Teflon coated Stirrer
- Calibration Points: K-Factor, Linear (one, two and multi point), Logit-log, Spline, Exponential, Polynomial (2nd, 3rd and 4th order)
- Low water consumption of 6-8 litres per hour
- Easy-to-use Windows based software (Windows XP)

Sampling Unit

System Type:
Sample positions:
STAT samples:
Sampling:
Sampling probe:

Reagent:
Sample dilution:
Sample identification:

Reagent Unit

Type:
Reagent tray:
Reagent cooling:
Reagent probe:

Reagent volume:
Mixing:
Reagent identification:
Carry over actions:

Reaction Unit:

Type:
Reaction tray:
Reaction temperature:
Reaction Time:
Cuvettes:

Optical System:

System:
Light source:
Linearity:
Filters:

Calibration & Quality Control:

Calibration:
Calibration curve:
Quality control:

Process Management:

Reflex:
Monitor function:
Data storage capacity:
Report / list format:

Alarms:

Water Supply:

Working Condition:

Power supply:
Temperature:
Relative humidity:
Dimensions:
Weight:

Turn Table type tray
75 positions
Any free position
Sample volume: 2-75 μ l (0.1 μ l steps); Sample replication possible for same test
Micro-pipette with level sensor; External & Internal washing with de-ionized water
Equipped with Vertical & Horizontal obstruction detection facility
Execution by repeat run list or auto execution
Dilution ratio: 2X to 40X
Barcoded for sample details and position

Turn table type tray
60 positions for R, & R_s
16°C below ambient (cooled with refrigeration unit)
Micro-pipette with level sensor; Washing solution: external & internal washing with de-ionized water
Equipped with Vertical & Horizontal obstruction detection facility
Reagent 1: 180 – 350 μ l (adjustable in 1 μ l steps); Reagent 2: 0, or 10 – 200 μ l (adjustable in 1 μ l step)
Teflon Coated Stirrer
Position ID; Barcode Identification for reagents
Wash with System Water/ Select Reagent/ Wash Solution

Turn Table
80 Reaction Cuvettes
37 \pm 0.2°C
30-600 seconds
80 Semi Disposable Cuvettes; Optical path length: 6.0 mm; Reaction volume: 180 μ l to 550 μ l

Multiple wavelength, Post Spectrometer with Fiber optics cable & sealed filters, maintenance free
Halogen Tungsten lamp
0 to 3.0
9 Static Filters (340, 405, 450, 510, 546, 578, 620, 670, 700 nm)

Maximum 20 calibrators; 6 calibrators maximum per Chemistry
One point to multipoint calibration possible with serial dilution for concentrated calibrator
K-Factor, Linear (one, two point and multipoint), Logit-log, Spline, Exponential, Polynomial
Multipoint curves for up to 6 points
Within day as well as day-to-day X and X-R control diagram (L-J Graphs)
Real time quality control based on Multi-rule method
Mean, SD, %CV, R calculated for all parameters for sample replicates

Reflex pair can be programmed by defining panic ranges
Offline / Online Reaction curve, Calibration curve and Operation status display
Real Time Operation Status
Test results: 1,000,000; Reaction curve: 40,000 tests
Unique Alphanumeric patient id; Report generation: Patient wise, Test wise, Date wise, Doctor / Hospital wise
Financial statistics to know reagent consumption based on tests and also price for each test
Sample / Reagent depleted, low DI water level and Waste container full
Detergent level low and bio-hazard container full; Prompts on display with audible alarm
Approximately 6-8 litres / hour (De-ionized water)

110/220 VAC, 50/60 Hz (Max. Power 250 W)
15 – 30 °C variation during operation: less than \pm 2 °C per hour
40 – 80% free from water dew formation
770 (W) x 640 (D) x 600 (H)
Approximately 75 kg