



AviChem^{Mini}

Clinical Chemistry



WHERE ACCURACY
MEETS SIMPLICITY

HARDWARE

■ Higher PERFORMANCE

AviChem Mini is the smallest analyzer with the greatest potential in the category, ideal for daily and special routine.

- Direct reading of clinical chemistry and turbidimetry.
- Random access instrument and throughput of typically 150 tests/hour.
- Additional sample setting during operation (primary tubes and /or cups).
- Real STAT interrupt is available at any time.
- Automatic pre and post dilution.
- Automatic detection of level liquid: reagent and sample.
- High precision of pipetting system: for the reagent from 2 to 350 µL; for the sample from 2 to 300 µL.
- Well developed analytic system:
 - Single, dual and triple reagent for each programmed parameter.
 - Mono and bi-chromatic end point, Differential, Fixed time and Kinetic are all valid (with or without sample blank).
 - Linear and no linear calibration with blank subtraction, from 1 to 8 standards per test method.

■ Simple DESIGN & EASY Maintenance

AviChem Mini is the more system that is compact , small size and lightweight of all benchtop analyzers .

- Size & Weight : 30(W) × 60(D) × 40(H) cm / 20 kg .
- Low water consumption and reduced waste.
- No need of direct water connection and deionize.
- The connection between the instrument and the computer is assured with USB cable which allows to use any type of computer (laptop, tablet...).
- Procedures programmed by component life counters.
- Simple yearly maintenance procedure.



SOFTWARE

■ SMART Software

The software answering perfectly the needs and requests of the real random access workflow routine.

- User friendly software designed with touch screen monitor.
- Unlimited number of methods in PC memory with 100 active methods.
- For each worklist : unlimited number of samples , unlimited number of tests , up to 99 sheets of tests.
- Tests archive with power full search tools.
- Possibility to import or export sample data with many different file form : PDF, WORD, EXCEL , JPG...
- Automatic detection of the level liquids with number of tests remaining and quantity remaining.
- Automatic application for conversion of all units.
- For quality control we have three-level controls per test , one month monitoring and exclusion of failing results from graphic and statistics.

Technical Specification



SYSTEM DESCRIPTION

- Direct reading of all clinical chemistry and turbidimetry test
- random access
- up to 150 tests/hour

ASSAY TYPE

End point Mono and Bichromatic Differential, Fixed time and Kinetic up to 100 tests fully programmable and active (with 3 reagents for each methods).

ON-BOARD REAGENTS

Removable reagent rack with 20 refrigerated positions (bottle of 40 or 15 ml) + Optional multiple reagent trays with worklist automatically managed by the software

SAMPLE LOADING

- Removable tray with 10 positions
- Automatic Pre and Post dilution.
- Urgent sample (STAT) allowed at any time

OPTICS SYSTEM

- Halogen lamp (6V, 10w) with extended 2 focusing lenses, optical glass
- 8 filters: 340, 405, 505, 546, 578, 600, 650 and 700wave length (+2 others free positions)
- Photometric range 0 to 3 Abs Linearity (0.5% from 0.1 to 1.5 Abs) Precision : 1 % CV or 1 abs min.

SAMPLING ARM

- 1 unique arm for sample and reagent (75 mm needle stroke).
- Capacitive liquid level detector: Reagent and Sample.
- Needle washed internally and externally after every operation.

REACTION PLATE

- 4 reaction segments of 24 cuvettes (total=96) of single use
- Optical path 9.5 mm, 275-500 µl reaction volume
- 100W heating resistance, temperature sensor.

PIPETING

- Volume: sample 2–300 µl ; reagent 2–350 µl
- Precision: 1.5 CV% at 2µL; 1CV% at 4 µl
- Mixing by sample needle upon dispensation
- Long life syringe

EXTERNAL COMPUTER

Minimum requirements:
Intel i3 family 4GB Ram
Min 900 dots vertical Resolution
Microsoft windows 7 or 10 Framework ; Net framework 4.6
USB for analyzer connection
Software designed for touch screen monitor

SIZE, WEIGHT & POWER

H X D X W = 40 x 60 x 38 / 20 kg
100 – 240 Vac, 50/60 HZ single phase with ground
2 Amp, 230 Vac, 3.15Amp, 2.5 Ma



AVICENNA
Reliably Accurate

Avicenna aims to provide innovative and smart diagnostic products and tools to today's modern laboratories. The company's range of products is the result of in-house research and development as well as collaborations with reliable manufacturers.

Our mission is to provide Innovative Diagnostic Products to the World

