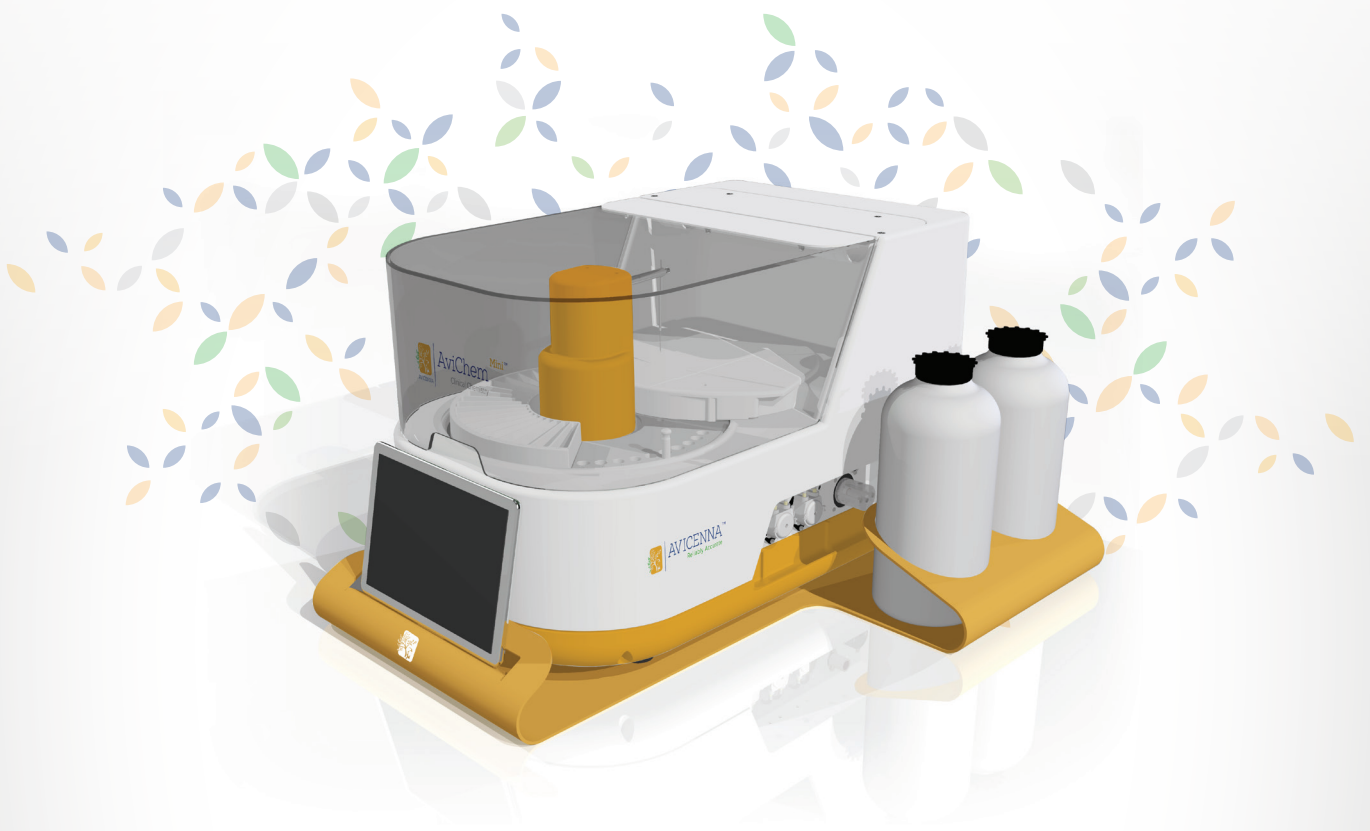




# AviChem<sup>Mini</sup><sup>TM</sup>

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 system of choice; that is more 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 forms: PDF, Word, Excel, and 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

