



WHERE ACCURACY MEETS SIMPLICITY



HARDWARE

AviChem Midi™ offers a robust new compact design with random access throughput typically 300 tests/hour, high performance and precision, minimal maintenance and best solutions for the benchtop laboratory.

■ PERFORMANCE & PRECISION:

AviChem $Midi^{\mathsf{TM}}$ has a capability of performing 300 tests/hour by double sampling arms that reduces reagent contamination and thus makes it better suited for laboratories with large testing volumes.

- Direct reading of clinical chemistry and turbidimetry
- · Additional sample setting during operation (primary tubes, vacuum and /or cups).
- · Real STAT interrupt is available at any time
- Tied to proven methodologies, referenced and traceable
- · Single, dual and triple reagent for each programmed parameter
- · All type of test that we need: Mono and bi-chromatic end point, Differential, Fixed time and Kinetic (with or without sample blank)
- · Linear and no linear calibration with blank subtraction, from 1 to 8 standards per test method
- · 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: 1.5% CV at 2µL
- · Sample barcode reader by default
- · Wash stations allows the automatic wash of 80 cuvettes

■ DESIGN & FLEXIBILITY:

By its ergonomic design and effective use of consumables, Avichem Midi offers an easily maintenance and reduce the operational cost.

- Size & weight: 85 (W) × 62(D) × 49(H) cm / 55 Kg
- · Low water consumption
- · No need of direct water connection and deionize
- · Reduced waste: Normal and biohazard waste separated
- Procedures programmed by component life counters
- Wash station: Automatic wash for 80 washable BIONEX cuvettes which allow up 30000 tests
- · Simple yearly maintenance procedure



SOFTWARE

■ USER FRIENDLY & DYNAMIC SOFTWARE:

This software allows the full easy control of the system and real-time support to the user.

- \cdot Unlimited number of methods in PC memory with 100 active methods
- Addition of new samples
- · 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
- $\boldsymbol{\cdot}$ Automatic detection of the level liquids with real-time update
- $\boldsymbol{\cdot}$ Automatic application for conversion of all units
- $\cdot \text{Three-level controls per test, one month monitoring and exclusion of failing results from graphic and statistics}$
- Real-time tracking of calibration and reaction graphs

Technical Specification

SYSTEM DESCRIPTION	 Direct reading of all clinical chemistry and turbidimetry test Random access Up to 300 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	2 Removable reagent racks 30+30 bottles = 60 refrigerated positions (50 or 25 ml)
SAMPLE LOADING	 Removable tray with 60 positions for tubes or cups (metal adapter) 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	 2 arms sampling needles, 10 mm needle stroke. Capacitive liquid level detector: Reagent and Sample. Needle washed internally and externally after every operation with shock sensor
REACTION PLATE	- 80 washable Bionex cuvettes allows up to 30000 tests - Rotor Optical path 6mm, 210-350 µl reaction volume - 100W heating resistance, temperature sensor, safety thermostat - Wash Station: Needles = 6 dispensing, 5 aspiration, 1 cleaning
PIPETING	- Volume: sample 2–300 μl; reagent 2–350 μl - Precision: 1.5 CV% at 2μL; 1CV% at 4 μl, Resolution: 0.14 μl - Mixing by sample needle upon dispensation - Long life syringe
EXTERNAL COMPUTER	 Minimum requirements: Intel i3 family 4GB Ram Minimum Resolution: 1280 x 768 Microsoft windows 7 or 10 Framework; Net framework 4.6 USB 2.0 port

SIZE, WEIGHT & POWER

 $H \times D \times W = 49 \times 62 \times 85 / 55 \text{ kg}$ 100 - 240 Vac, 50/60 HZ single phase with ground 2 Amp, 230 Vac, 3.15Amp, 2.5 Ma



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

