

VERTEX Hb

Automated Glycohemoglobin Analyzer



Throughput:
60T / hour*



Precise
CV < 1%



Auto Venting
Technology

Making Automation Affordable
for labs Everywhere

VERTEX Hb

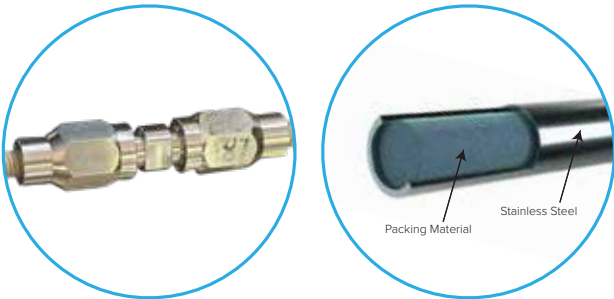
Automated Glycohemoglobin Analyzer

VERTEX Hb is an advanced HPLC analyzer designed specifically for accurate and reliable HbA1c testing based on Ion Exchange Chromatography, ensuring precise separation of hemoglobin variants. With a throughput of up to 60 tests per hour*, it supports high-efficiency workflows in busy labs. The system ensures precision, consistency, and traceability in diabetes monitoring.

*Standard Mode

High-Performance Column for Precise Results

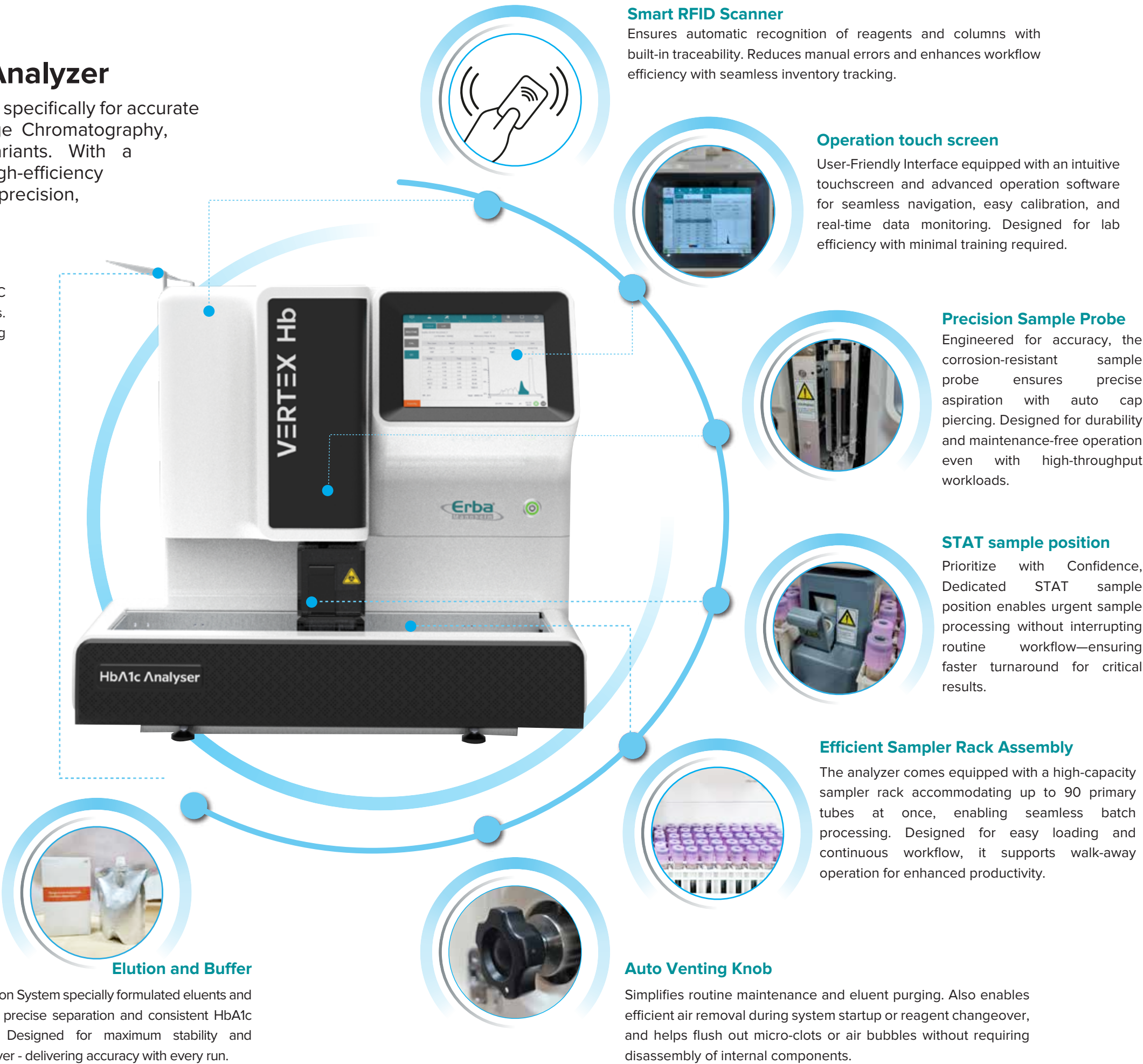
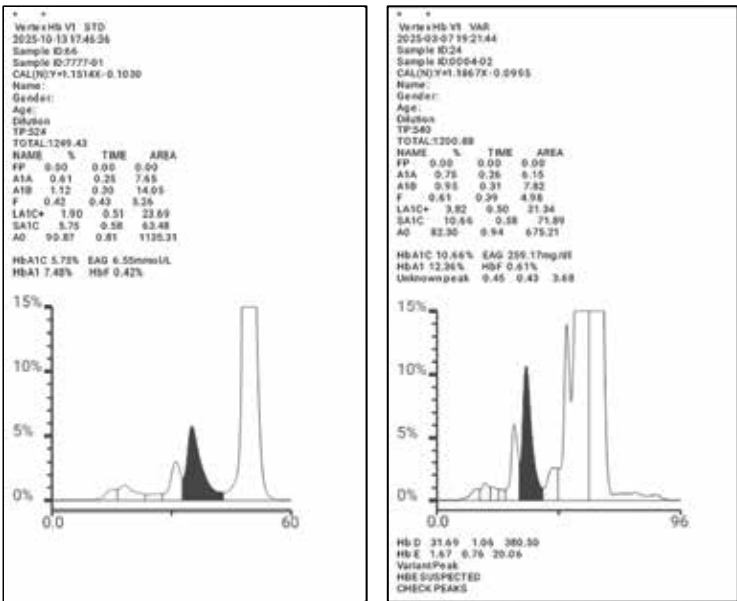
Engineered for optimal separation of hemoglobin fractions, the HPLC column ensures accurate and reproducible HbA1c measurements. Designed to minimize interference from hemoglobin variants, ensuring diagnostic confidence every time.



Reportable Results

Standard Mode: **HbA1c**

Variant Mode: **HbA1c + Variants**



Smart RFID Scanner

Ensures automatic recognition of reagents and columns with built-in traceability. Reduces manual errors and enhances workflow efficiency with seamless inventory tracking.

Operation touch screen

User-Friendly Interface equipped with an intuitive touchscreen and advanced operation software for seamless navigation, easy calibration, and real-time data monitoring. Designed for lab efficiency with minimal training required.

Precision Sample Probe

Engineered for accuracy, the corrosion-resistant sample probe ensures precise aspiration with auto cap piercing. Designed for durability and maintenance-free operation even with high-throughput workloads.

STAT sample position

Prioritize with Confidence, Dedicated STAT sample position enables urgent sample processing without interrupting routine workflow—ensuring faster turnaround for critical results.

Efficient Sampler Rack Assembly

The analyzer comes equipped with a high-capacity sampler rack accommodating up to 90 primary tubes at once, enabling seamless batch processing. Designed for easy loading and continuous workflow, it supports walk-away operation for enhanced productivity.

Auto Venting Knob

Simplifies routine maintenance and eluent purging. Also enables efficient air removal during system startup or reagent changeover, and helps flush out micro-clots or air bubbles without requiring disassembly of internal components.

Elution and Buffer

Optimized Elution System specially formulated eluents and buffers ensure precise separation and consistent HbA1c measurement. Designed for maximum stability and minimal carryover - delivering accuracy with every run.

TECHNICAL SPECIFICATIONS

MEASUREMENT PRINCIPLE

Ion-exchange HPLC

TEST MODE

Standard mode / Variant mode

THROUGHPUT

Standard mode: 60s / test

Variant mode: 96s / test

MEASUREMENT ITEMS

HbA1c, HbA1 and HbF

MEASUREMENT RANGE

HbA1c: 3% - 20%

REPEATABILITY

CV ≤ 1.0%

SAMPLE TYPE

Whole blood and diluted blood

SAMPLE MANAGEMENT

LIS loading, barcode scanning

SAMPLE LOADING CAPACITY

10 samples/rack × 9 racks. Continuous circulating rack sampling system

EMERGENCY

1 STAT position

HBA1C REPORT FORM

In both graphic and value report with IFCC** (mmol/mol) and NGSP** (%) results

** Applied for Certification

CONSUMABLE

Elution buffer, hemolysis & wash solution, column, filter, calibrator, control

REAGENT MANAGEMENT

RFID scanning, automatically loading info of lot, expiry date and remains, etc

OPERATION INTERFACE

Android operation software, HDMI touch screen

USER MANAGEMENT

Authorization set for different levels

DATA STORAGE

100,000 results. Available for statistics, online queries, data backup, data export

EXPORT & COMMUNICATION

RJ45 (Bi-directional). Built-in thermal printer
Advantage of transferring Chromatogram through LIS along with patient data.

MAINTENANCE

Automatic maintenance in startup and off, alarm and error indication, daily maintenance reminder & guidance

POWER SUPPLY

AC120~240V, 50/60Hz, 24V/15A

DIMENSIONS & WEIGHT

560(L) × 590(W) × 490(H) mm, 45kg

Advantages of Integration with CareDiva: Transferring Chromatogram alongside Patient Report

- Enables seamless record validation and audit traceability
- Enhances clinician confidence with visual chromatogram reference
- Ensures transparency in result verification for better clinical decisions
- Simplifies reporting, review, and data archival through LIS transfer

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