

**THE COBAS® 6000 ANALYZER SERIES:
DESIGNED FROM THE GROUND UP
FOR TODAY'S MID-VOLUME LAB**

As the approach to laboratory automation continues to evolve, the day-to-day needs and challenges faced by the mid-volume laboratory change as well. In response to these changing customer needs, **Roche Diagnostics** (Indianapolis, IN) has introduced the compact and fully automated **cobas® 6000 analyzer series**, engineered with the latest advances in clinical chemistry and immunochemistry integration, and designed from the ground up to offer custom solutions to mid-volume laboratories.



One of the many benefits that sets the **cobas® 6000 <501|601>** analyzer apart from others in this marketplace is its unique compact footprint—the analyzer requires only 33 square feet of floor space. Roche has designed more value into every square inch of an analyzer that is small, yet more productive and efficient than ever. With its broad clinical chemistry and immunoassay menu, this powerful analyzer consolidates up to 95 percent of a mid-volume laboratory's typical testing mix on a fast, reliable, easy-to-use platform.

The **cobas® 6000 <501|601>** analyzer will help streamline workflow and increase

efficiency, providing up to six hours of continuous automated operation, and can accommodate front-end automation with the **MODULAR PRE-ANALYTICS PLUS** System, which will eliminate off-line sample preparation and reduce the potential for human error. The **cobas® 6000 <501|601>** analyzer delivers maximum throughput of up to 1,170 tests per hour, and features a true STAT interrupt mode that prioritizes STAT racks to be sampled within 60 seconds. This yields higher quality, improved productivity, simplified workflow, and cost savings.

The **cobas® 6000** analyzer series includes the core unit, the **cobas c 501** analyzer, and the **cobas e 601** analyzer. The core unit features continuous sample rack loading and unloading with a capacity of 150 samples with 5 position racks, via tray or STAT port, with rerun buffer. The **cobas c 501** analyzer includes a photometric measuring unit (including ISE) and offers a throughput of up to 1,000 tests/hour and 60 direct-access assays, and it can load on-the-fly reagent exchange during run, and do contact-free ultrasonic mixing and do clot detection. The **cobas e 601** analyzer module's advanced technology measuring unit offers a throughput of up to 170 tests/hour and 25 direct-access assays. The **cobas® 6000** analyzer series will be available in seven different modular configurations, capable of seamlessly adapting as a lab's needs change, and delivering the efficiencies of true integration and automation to the mid-volume lab today.

The **cobas e 601** analyzer utilizes electrochemiluminescence (ECL) technology, a sophisticated technology used in Roche immunoassays. ECL delivers excellent low-end sensitivity and broad dynamic range—one of the broadest measuring ranges in the industry. The dual measuring cells use an amplified signal to detect ultra-low concentrations of analyte. High-quality reagents, clot detection, and carryover protection ensure accurate results the first time. By precisely controlling electrically initiated reactions, ECL technology virtually eliminates unnecessary repeats and reruns. Additionally, the Enhanced Intelligent Process Management (EIPM) analyzer software provides intelligent sample routing, auto rerun, and dilutions based on user-defined or default parameters to optimize turnaround time and throughput, balancing the system workload in real time. Result integrity is ensured with clot and liquid level detection, test specific serum indices, antigen excess check and carry-over protection, using high-priority settings and intensified washing

procedures. The **cobas c pack** (**cobas c 501**) and **cobas e pack** (**cobas e 601**) offer a large selection of ready-to-use reagents which provide convenient handling; and in over 90 percent of all reagents, calibration is required only once per lot. The **cobas c pack** can be changed during operation without interrupting the routine, and is closed for increased onboard stability and protection against environmental elements.

The **cobas® 6000** analyzer series also provides improved safety and convenience. There is significant reduction in manual sample handling, eliminating both the need to transfer tubes from one analyzer to another as well as the necessity of sample preparation when running the whole-blood HbA1c application. In addition, the analyzer includes **cobas e-services**, an on-line connectivity solution that provides customers with fast, direct service, on-line training, and benchmark reporting. Connectivity via **cobas link**, as a part of e-services, provides a secure connection between the

lab and Roche Diagnostics, allowing remote diagnostics, real-time service and support, efficient troubleshooting, and anti-virus and application patching for system protection. This secure gateway connection allows screen-sharing, automatic downloads of customer bulletins, calibration and control target values, and software upgrades. Control features facilitate the ability to comply with HIPPA regulations for patient data safety. A **cobas IT** firewall also is available.

The **cobas® 6000** analyzer series provides greater levels of efficiency, a higher level of service to lab customers, and ultimately, improved patient care, due in part to the fast, actionable, and accurate information delivered by your lab.



For more information concerning the **cobas® 6000** Analyzer Series, call 1-317-521-2000, or visit the company's Web site at www.us.labsystems.roche.com.