## [tech]

## Chemistry & Integrated Analyzers

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- 3. What are the dimensions of the named product?
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- 5. If you answered "elsewhere," explain briefly.
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Abbott Diagnostics	Alfa Wassermann Diagnostic Technologies LLC	Arkray
Abbott Park, III (847) 937-6100; www.abbottdiagnostics.com	West Caldwell, NJ (800) 220-4488; www.alfawassermannus.com	Minneapolis, Minn (877) 538-8872; www.arkraylab.com
Architect family of immunochemistry analyzers	Ace Axcel clinical chemistry analyzer	Aution urine analyzers, Aution urine strips, and Uriflet urine strips
2009	2012	Aution Hybrid AU-4050, 2013
Varies	33 inches x 26 inches x 28 inches	31 inches x 28.3 inches x 28.3 inches
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Analyzers perform more than 150 different clinical chemistry and immunoassay tests: general chemistry, infectious diseases, metabolic and cardiac markers, specific proteins, therapeutic drugs, and toxicology.	Electrolytes, enzymes, general chemistries, homogeneous immunoassays.	Urine chemistry (bilirubin, blood, color, glucose, ketone, leukocyte, nitrite, pH, protein, specific gravity, turbidity, urobilinogen) and sediment (bacteria, casts, crystals, epithelial cells, mucus, red blood cells, small round cells, sperm, yeast-like cells, white blood cells).
■ high volume ■ medium volume ■ low volume	□ high volume ■ medium volume □ low volume	<ul><li>■ high volume</li><li>■ medium volume</li><li>■ low volume</li></ul>
Throughput is up to 1,800 clinical chemistry and 200 immunoassay tests per hour.	285 tests per hour.	Chemistry analysis only: 200 samples per hour; full chemistry and sediment analysis: 100 samples per hour.
Analyzers offer labor-saving automation; with the Accelerator p540 automated sample handling system and Accelerator a3600, labs can streamline operations, reduce errors, and improve turnaround times.	Closed-tube sampling; remote access via Internet connectivity.	Automated urine chemistry and sediment analysis; enumerates and flags formed elements; automated reflex testing; customized cross-check functionality; anticarryover washes.
Operator training ranges from beginner to advanced and is usually 3–5 days, depending on which system is involved.	4.5 day in-house training course.	2 days of primary operator training.
Service plans are available and tailored to individual customer needs, budgets, and solutions.	A customer solution center provides 24-hour coverage, 365 days a year.	24/7
Analyzers are fully automated, random access systems that simplify processes, improve productivity, and enhance quality of results. All are Class 1 laser products. Refer to operations manuals for precautions, limitations, and hazards.	Internet connectivity; closed-tube sampling; stat interrupt capability; onboard sample and reagent refrigeration; onboard reagent inventory management; ready-to-use reagents; self-contained analyzer; no external water source or waste drainage; award-winning support.	Fully automated chemistry and sediment analysis in a single footprint; 30% to 50% smaller than the competition; anti-carryover wash; amorphous crystal removal; automatic detection of fluorescently labeled bacteria and formed elements; true walkaway capabilities; results in as little as 2 minutes, 15 seconds; automatic reflex testing.

Awareness Technology Inc	Beckman Coulter	ELITechGroup	Nova Biomedical
Palm City, Fla (772) 283-6540; www.awaretech.com	Brea, Calif. (800) 526-3821; www.beckmancoulter.com	Lincoln, RI (855) 354-8324; www.elitechgroup.com	Waltham, Mass (781) 894-0800; www.novabiomedical.com
ChemWell 2910	AU5800	Selectra Pro chemistry systems	Stat Profile pH0x Ultra Plus
ChemWell 2910 biochemistry, 2014	2011 (Outside US); 2012 (US and Canada)	Selectra ProM chemistry system with TouchPro software, 2012	2011
16 inches x 34 inches x 20 inches	50 inches x 85–210 inches x 62 inches, depending on the model selected	30 inches x 48 inches x 24 inches	17.2 inches x 22.3 inches x 18.7 inches
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Small- to mid-sized clinical labs and life sciences research labs.	Toxicology, dialysis.	Urgent care clinics and clinics integrated with healthcare networks.	Point-of-care settings.
Open system can be used for most photometric assays. Also capable of performing enzyme-linked immunosorbent assays (ELISAs) on the same instrument.	120 tests, covering anemia, autoimmune, cardiac, diabetes, drugs of abuse, general chemistry, renal, tumor markers, and specialty tests, and more.	Alanine aminotransferase/glutamic-pyruvic transaminase, albumin, alkaline phosphatase, amylase, aspartate aminotransferase/glutamic-oxaloacetic transaminase, bilirubin direct and total, blood urea nitrogen, calcium, carbon dioxide, chloride cholesterol, cholesterol (HDL and LDL), creatine kinase, creatinine, gamma-glutamyl transferase, glucose, hemoglobin A1c, lactate dehydrogenase, phosphorus, potassium, sodium, total protein, triglycerides, uric acid.	Individual tests include bilirubin, blood urea nitrogen, chloride, co-oximetry, creatinine, glucose, hemoglobin, hematocrit, ionized calcium, ionized magnesium, lactate, PCO <sub>2</sub> , pH, PO <sub>2</sub> , potassium, SO <sub>2</sub> %, and sodium
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200 endpoint reactions per hour; 170 kinetic reactions per hour.	2,000 to 9,800 tests per hour.	266 tests per hour with ion-selective electrode.	38 samples per hour.
Automation for endpoint and kinetic assays; quality control software prevents timing conflicts; optional automated barcode scanning.	Connection to Beckman Coulter Power Processor and Power Express.	Fully automated system with productivity and error-reducing capabilities, including onboard positive sample identification, host-query, and programmable autoverification.	Automatic onboard quality control (QC); auto-monitoring of QC and reagent pack; automated maintenance.
1 to 2 days for complete operation and applications.	1 week.	Training is performed onsite for about 3 days. Self-training e-programs are available.	Training for operation, maintenance, troubleshooting, and setup lasts about 4–5 hours.
Phone support with a trained technician and online support.	Application specialists available for onsite support and 24/7 hotline support.	Monday–Friday, 8 am–8 pm EST, unlim- ited technical support.	A 24/7 technical hotline is staffed by representatives whose backgrounds range from medical technology to electrical engineering. Analyzer installation is performed by certified technicians. Field service staff provide onsite service coverage throughout North America. Multilevel technical support plans are available for an annual fee.
Optional custom racks built to specifications; open system assay editor for inputting assays; Runs both ELISA and biochemistry assays; optional reagent cooling accessory maintains reagents at 12°C to 15°C below ambient temperature.	Throughput of up to 9,800 tests per hour; extensive menu of 125 assays; stat interrupt capability; high-performance ion-selective electrode; low mean time between failure; integration options with automation and immunoassay systems.	Fully automated chemistry system, running up to 180 tests per hour and 10 to 50 patients per day. Selectra TouchPro software with smart icons guides the operator through daily workflow, including configurable daily checklists.	Broadest test menu of any blood gas or critical care analyzer, at low cost; 20 tests on board; fast, economical critical care results; industry's best overall user satisfaction; integrated onboard co-ox; onboard data management; sealed waste system; auto-monitoring of QC and reagent packs.



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Randox Laboratories	Randox Laboratories	Roche Diagnostics Corp
Kearneysville, W Va (866) 472-6369; www.randox.com	Kearneysville, W Va (866) 472-6369; www.randox.com	Indianapolis, Ind (800) 428-5074; usdiagnostics.roche.com
RX Monza	RX Daytona+	Cobas 6000 analyzer series
2006	2013	2006
8.9–11 inches (depending on screen angle) x 17.5 inches x 15.9 inches	24.6 inches x 34.25 inches x 26.38 inches	51 inches x 74–196 inches x 38.6–41 inches, depending on model and modules selected
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Clinical chemistry laboratories, edu- cational and research establishments, veterinary laboratories, food and wine testing facilities.	Clinical chemistry laboratories, educational and research establishments, veterinary laboratories, food and wine testing facilities.	
A range of different analytes present in cerebrospinal fluid, plasma, serum, and urine.	A range of different analytes present in cerebrospinal fluid, plasma, serum, supernatents, and urine.	As many as 150 tests in categories including anemia, cardiac, coagulation, diabetes, direct antiglobulin testing, general chemistry, ion-selective electrode tests, stat tests, specific proteins, specimen validity, and therapeutic drug monitoring.
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System is semiautomated, so throughput is dependent upon the operator, methods used, and analytes to be tested.	System can perform 270 photometric tests per hour and 180 ion-selective electrode tests per hour, for a combined throughput of 450 tests per hour.	Up to 600 samples per hour or 2,170 tests per hour.
Semiautomated analyzer.	System is fully automated.	Modular preanalytics system, Cobas 8100 automated workflow series; postanalytics with Cobas P 501 and Cobas P 701.
1–2 days, depending on the tech's competence level.	3 days, depending on the tech's competence level.	Varies on site; 5 days at vendor's office.
Support team is on hand with expert advice and support, regardless of location.	Support team is on hand with expert advice and support, regardless of location.	24/7 phone support; expert installation; onsite support; remote diagnostics; online classes.
A low maintenance, compact semiauto- mated clinical chemistry analyzer, with an extensive test menu consisting of routine chemistry, coagulation, veteri- nary, and food and wine testing profiles.	An easy-to-use, compact benchtop chemistry analyzer, providing rapid, cost-effective testing. The extensive test menu enables complete profiling, covering clinical, veterinary, specific proteins, and research testing.	Industry-leading reliability; standardized reagents, reference ranges, test results, and user interface; customized modular design available in seven configurations; 9-minute stat assays; broadest test menu of any integrated platform.

Roche Diagnostics Corp	Sekisui Diagnostics	Siemens Healthcare Diagnostics	Siemens Healthcare Diagnostics
Indianapolis, Ind (800) 428-5074; usdiagnostics.roche.com	Lexington, Mass (800) 332-1042, www.sekisuidiagnostics.com	Tarrytown, NY (877) 229-3711; usa.healthcare.siemens.com/ laboratory-diagnostics	Tarrytown, NY (877) 229-3711; usa.healthcare.siemens.com/ laboratory-diagnostics
Cobas 8000 analyzer series	SK500	Advia clinical chemistry	Advia clinical chemistry
2010	2015	Advia 1800 chemistry system, 2006	Advia chemistry XPT system, 2015
52.8 inches x 112.8–289.2 inches x 37.2–45.6 inches, depending on model and modules selected	45 inches x 60 inches x 30 inches	45 inches x 58 inches x 34 inches	59 inches x 70 inches x 39 inches
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More than 100 tests in categories including anemia, bone markers, cardiac markers, diabetes, hormones, general chemistry, hepatitis, infectious disease, rheumatoid arthritis, stat tests, specific proteins, therapeutic drug monitoring, thyroid function, and tumor markers.	General chemistries, enzymes, electro- lytes, homogeneous immunoassays.	Chemistry, drugs of abuse, special chemistry, special proteins, therapeutic drug monitoring, toxicology.	Chemistry, drugs of abuse, special chemistry, special proteins, therapeutic drug monitoring, toxicology.
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Up to 1,000 samples per hour or 9,800 tests per hour.	580 tests per hour.	1,800 tests per hour.	2,400 tests per hour.
Modular preanalytics system, Cobas 8100 automated workflow series; post- analytics with Cobas P 501 and Cobas P 701.	Bidirectional, host-query interface.	Aptio automation, StreamLab automation solutions, and Advia automation solutions (LabCell, WorkCell).	Aptio automation and Advia automation solutions (LabCell, WorkCell).
Varies on site; 5 days at vendor's office.	3 days of operator training.	3.5-day operator training; onsite training and online personalized education plan offered.	3.5-day operator training; onsite training and online personalized education plan offered.
24/7 phone support; expert installation; onsite support; remote diagnostics; online classes.	Phone and field support available.	Contact local Siemens representative.	Contact local Siemens representative.
Maximum throughput of up to 9,800 tests per hour; standardized reagents, reference ranges, test results, and user interface; customized modular design available in 49 configurations; 9-minute stat assays; broadest test menu of any integrated platform.	Small footprint; low water usage; onboard water system included; utilizes Sekure chemistry reagents.	Comprehensive menu; open channel options; available third-party applications; 3-second cycle time; 1,800 tests per hour; automation-ready; concentrated reagents available for high-volume chemistries; walkaway capability; clot detection; liquid level sensing; auto reruns, dilutions, and repeats.	Throughput up to 2,400 tests per hour; intuitive software for ease of use and overall ease of operation; advanced quality control and calibration function; large onboard test capacity, extensive menu with 117 assays available, plus openchannel options; seamless automation connectivity; ergonomic design.

Stanbio Laboratory, an EKF Diagnostics company Boerne, Tex (800) 531-5535; www.stanbio.com	Thermo Fisher Scientific  Waltham, Mass (800) 232-3342; www.thermoscientific.com/ diagnostics	Thermo Fisher Scientific  Waltham, Mass (800) 232-3342; www.thermoscientific.com/ diagnostics	Vital Diagnostics, an ELITechGroup Company Lincoln, RI (800) 345-2822; www.vitaldiagnostics.com
Sirrus	Thermo Scientific Indiko	Thermo Scientific Indiko Plus	Envoy 500 chemistry system
2005	2011	2011	2014
20.5 inches x 31.5 inches x 26.5 inches	24.4 inches x 29.5 inches x 27.6 inches (height 51 inches with cover open)	24.4 inches x 37 inches x 27.6 inches	27 inches x 40 inches x 23 inches
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Research; medical technology school.	Criminal justice and forensic labs.	Criminal justice and forensic labs.	Urgent care clinics and clinics integrated with healthcare networks.
Enzymes, electrolytes, general chemistries, and turbidimetric assays.	Drugs of abuse screening, specimen validity, therapeutic drug monitoring (including immunosuppressant drug monitoring).	Drugs of abuse screening, specimen validity, therapeutic drug monitoring (including immunosuppressant drug monitoring).	Alanine aminotransferase, albumin, alkaline phosphatase, bilirubin direct, blood urea nitrogen, calcium, creatinine, enzyme, general chemistry, glucose, iron, magnesium, phosphorus, total protein, uric acid, and more.
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400 tests per hour.	Approximately 130 tests per hour (2 reagents).	Approximately 200 tests per hour (2 reagents).	490 tests per hour with ion-selective electrode.
N/A	Autodetection of reagents or specimens; auto transfer of quality control results to laboratory information system; onboard error codes for troubleshooting; reagent container placed directly into the system for use; reagents supported in multiple configurations and sizes; sample bar code reading capability.	Autodetection of reagents or specimens; auto transfer of quality control results to laboratory information system; onboard error codes for troubleshooting; reagent container placed directly into the system for use; reagents supported in multiple configurations and sizes; sample bar code reading capability.	Fully automated high-volume benchtop system, with guided operation, reagent management, automated maintenance, and auto-verification of results.
3-day in-house training.	Average time for user and maintenance training is 1 to 2 days.	Average time for user and maintenance training is 1 to 2 days.	Training is performed onsite for about 5 days. Self-training e-programs are available.
Toll-free technical support line and field service support.	Telephone and email support is available 24 hours a day, 7 days a week.	Telephone and email support is available 24 hours a day, 7 days a week.	Monday–Friday, 8 am–8 pm EST, unlimited technical support.
Bench-top analyzer; comprehensive chemistry menu; open channels and true walkaway capability for up to 30 samples; unique air-controlled mixing system minimizes carryover; automatic repeat for panic values; low water consumption; proven reliability.	Fully self-contained, with a small footprint; intuitive user interface; full results traceability; easy to use, saving costs and time; extensive menu of liquid, ready-to-use drugs of abuse and therapeutic drug monitoring bar-coded reagents.	Fully self-contained, with a small footprint; intuitive user interface; full results traceability; easy to use, saving costs and time; extensive menu of liquid, ready-to-use drugs of abuse and therapeutic drug monitoring bar-coded reagents.	Fast benchtop chemistry system, running up to 490 tests per hour and 20 to 80 patients per day. Latest enhancements include new software, clot detection, remote diagnostics, and assay improvements.