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ADVIA Centaur XPT Immunoassay System*

Technical Specifications

Product Specifications

System Description	Random-access immunoassay system
Test Throughput	Up to 240 tests per hour
Time to First Result	18 minutes; results every 15 seconds thereafter, assay-dependent
Assays Onboard	30 assays
Disease-State Assay Groups*	Allergy, Anemia/Iron Metabolism, Bone Metabolism, Cardiac, Diabetes, Hepatitis, HIV, Immunosuppressant Drugs, Liver Fibrosis [†] , Metabolic, Oncology, Reproductive Endocrinology, Sepsis [†] , Special ID, Therapeutic Drug Monitoring (TDM), Thyroid, ToRCH
Continuous Operation	Loading/unloading of samples and consumables at any time without interrupting system operation. Includes sample racks, STATs, reagent packs, ancillary reagent packs, reaction cuvettes, sample pipette tips, calibrators, controls, wash fluids, water, and waste.

Sample Handling

Sample Tubes	3 mL, 5 mL, 7 mL, and 10 mL tubes; 1 mL and 2 mL sample cups; microcontainer tubes
Sample Input	Universal 5-position rack holds multiple tube types; 180 samples fully loaded; no-pause loading and unloading
Validated Sample Types	Serum, plasma, urine (assay-dependent)
Sample Volume per Test	10–200 µL, assay-dependent
Sample Integrity Control	Pressure transducer technology with clot detection, flagging, and management; short-sample detection, flagging, and management
STAT Handling	Dedicated STAT port accepts samples any time; STAT samples are processed with priority
Auto-repeat	User-definable
Sample Dilution	Automatic dilution varies by assay, up to 1:2500
Auto-reflex Testing	Automatic ability to perform additional tests based on results of first test
Sample Pipette Tips	840 disposable sample tip capacity
Sample Carryover Prevention	Disposable pipette tips ensure zero sample carryover

Bar Codes

Sample Bar Codes	Up to 20 digits; Interleaved 2 of 5; Code 39, Code 128, Codabar; A, B, and special characters (.-/+*%)
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Reaction Area

Reaction Cuvettes	Capacity of 1000 optical-grade plastic cuvettes
Reaction Bath	Air bath, 37°C
Assay Result Calculations	SMART algorithm software repeats and confirms reactive testing; results available as completed
Assay Technology	Chemiluminescence using Advanced Acridinium Ester

Reagent Handling

Reagent Tray	30-position reagent tray refrigerated between 4 and 10°C (39–50°F)
Reagent Capacity Onboard	30 assays
Reagent Containers	ADVIA Centaur [®] ReadyPack [®] (various pack sizes available)
Reagent Integrity Control	Bar-code reagent identification, automatic inventory tracking and flagging, calibration valid tracking and flagging, reagent onboard stability tracking and flagging, reagent expired/reagent low flagging
Onboard Stability	28 days (average)
Reagent Mixing	ADVIA Centaur ReadyPacks automatically rocked onboard
Ancillary Reagents	25-position ancillary reagent tray cooled 4–8°C (39–46°F)

*Due to local regulations, not all products are available in all countries. Assay availability varies by country.

†Not available for sale in the U.S.

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Calibration/QC

Auto-calibration/Auto-QC	Available automatic QC ordering by test, control, date, and time
QC Data	Advanced QC package includes Levey-Jennings plots and Westgard rules

User Interface/Data Management

Monitor	22-inch diagonal high-resolution LCD touchscreen with adjustable height
Operating System	Microsoft Windows 7
System Documentation	Operator manual, quickstart guide, and context-sensitive online help
Data Storage	1,000,000 test/QC results; 500,000 can be historical; can archive to removable media
Onboard Maintenance Logs	Yes
Host Interface	RS232C bidirectional and host query; Ethernet connection available
Host Query	Yes
Remote Access & Service	1000BASE-T Ethernet port for remote access and modem for Siemens Remote Service

Removable Media

Removable Media	CD, DVD, or USB
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General Specifications

Power Requirements	200–240V at 50/60 Hz; 1.2 kW maximum
Maximum Water Consumption	2.5 liters (0.6 gallons) per hour
Drain Requirements	Minimum of 2.5 liters (0.6 gallons) per hour
Dimensions	With monitor: 167 (h) x 196 (w) x 104 (d) cm; 66 (h) x 77 (w) x 41 (d) in. Without monitor: 133 (h) x 196 (w) x 104 (d) cm; 52 (h) x 77 (w) x 41 (d) in.
Weight	585 kg (1289 lb)
Compliance	Complies with international environmental, health, and safety standards
Noise Emission	65 dB maximum
Processing Heat Output	5100 BTU/hour
Ambient Temperature	18–30°C (64–86°F)
Ambient Humidity	20–80% noncondensing
Floor Load-Bearing Requirement	412 kg/m ² (84 lb/ft ²)

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Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

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