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Dimension EXL 200^{IEMENS} Integrated Chemistry System ^{Dimension EX}

Technical Specifications

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Dimension[®] EXL[™] 200 Integrated Chemistry System

Product Specifications Bar Codes System Description Random-access clinical chemistry and Sample Bar Codes Code 39; Code 128; Codabar (USS); Interleaved 2 of 5 w and w/o check digit, immunoassay system with LOCI® chemiluminescence technology 12 digits maximum Test Throughput Performs up to 440 photometric chemistry **Reaction Area** tests per hour and 187 IMT tests per hour Onboard capacity of 12,000 formed cuvettes on serum, plasma, urine, and cerebrospinal **Reaction Cuvettes** fluid; can perform up to 167 heterogeneous **Reaction Bath** Air; incubation temperature 37°C immunoassay tests per hour 0.5 cm ±0.0125 cm Path Length IMT (NA, K, CL): 1.5 min; Electrolytes Time to First Result The filter wheel holds optical filters for (IMT + ECO2): 2.9 min; BMP-7 (Electrolytes, Photometer wavelengths of 293, 340, 383, 405, 452, GLU, BUN, CREA) 4.0 min; CMP-6 (ALB, 510, 540, 577, 600, 680, and 700 nm DBIL, TBIL, AST, ALT, ALP): 9.3 min; TNI: 11 min; HCG: 15.5 min Standard tungsten halogen lamp, operation Light Source Assays Onboard 47, including 3 IMT at 6.5A (6.8v) Anemia, Autoimmune/Rheumatoid, Bone 1, 3, 4, 5, 10, 15, 21, and 32 minutes Disease-state **Reaction Times** Assay Groups Metabolism, Cardiovascular, Diabetes, Serum blank, cell blank, reagent blank, Automatic Correction Drugs of Abuse/Toxicology, Hepatic measurement point change, autodilution Diseases, Immunosuppressive Drugs/TDM, LOCI, heterogeneous immunoassay, PETINIA Assay Technologies Inflammation, Nephropathies, Nutritional and ACMIA, photometry, potentiometry Assessment, Pancreatic Disease, Oncology, (ISE), turbidimetric, and Emit® Reproductive Endocrinology, Thyroid Assay Result Endpoint, rate, multipoint Sample Handling Calculations Sample Tubes 5 mL, 7 mL, 10 mL tubes; 1.5 mL sample Reagent Handling cups; 1.0 mL small sample containers and pediatric tubes 44 positions, refrigerated between 2-8°C **Reagent Tray** (36-47°F) 60 sample positions in six 10-tube segments; Sample Wheel positive sample identification 44 Flex[®] Reagent Cartridges plus 3 electrolytes Reagent via the QuikLYTE® IMT STAT Handling Not dedicated; STAT samples are processed Capacity Onboard with priority 2 probes with liquid-level sensing Dispensing System Qualitative check for hemolysis, lipemia, Sample **Reagent Cartridges** Flex Reagent Cartridges, bar coded, and icterus; clot detection, flagging, Integrity Control 15 to 360 tests/Flex and management; short-sample detection, 350-500 µL per test Average Total flagging, and management **Reaction Volume** Automatic repeat testing from Auto-Repeat Reagent Bar-code reagent identification; automatic the original sample inventory tracking and flagging; calibration Integrity Control Sample Volume 2-60 µL and control validity tracking and flagging; Per Test reagent onboard tracking of tests remaining. lot number, onboard stability, and Sample Dilution Automatic dilution: 1:1.5 up to 1:200 expiration date Automatic reflex testing based on Auto-Reflex Testing **Onboard Stability** Depending on assay, up to 42 days results of first test 25,200 tests average; 33,300 tests maximum **Test Capacity** Liquid-level sensing, clot detection, Primary Sample Onboard short-sample detection Probe Sample Carryover Automated wash Prevention

Sample Throughput Up to 200 tubes per hour as part of the VersaCell[®] X3 Solution – Dimension[®] Suite: faster on automation

Open-system Capability		Removable Media	
Channels	110 assay channels; includes 10 channels for user-defined applications	Removable Media	CD, DVD, and USB (starting with software version 10.0)
IMT		General Specification	ons
ІМТ	Indirect simultaneous measurement of Na+, K+, Cl-	Power Requirements System	115 VAC at 60 Hz (nominal); 11 amps max; 1.3 kW consumption in operating state
Sample Volume	40 µL for all three tests	230 VAC at 50 Hz (nominal); 5.5 amps max 1.3 kW consumption in operating state	
Priming	Automatic priming cycle, no user calibration, automatic urine dilution 1:10	Water Specifications ¹	 Instrument feed pressurized water source <3.8 bar (<55 psi)
Expected Use Calibration/QC	1000 samples or 5 days, whichever comes first		 Instrument feed water system must maintain stable DO2 content between 5 and 8 ppm² Temperature: <35°C (<95°F)
Validated Calibration Interval	Up to 90 days, tracked by software, with 500 most recent calibration logs stored electronically if a system restore is required (starting with software version 10.1)		 Resistivity: >10 megohms cm Bacterial content: <10 colony forming units/mL System feed water line must not exceed 3 m (12 feet)
Auto-calibration	Assay-specific time interval or with new reagent lot	Water System • Instrument may be supplied with a water	
Auto-QC	User-defined time interval		purifier that provides instrument feed waterIf an alternative water system is used, water
View Calibration	Graphical display of calibration curves		must adhere to Siemens water specifications
QC Data	Graphical display of QC plot (histogram or Levey-Jennings) with Westgard Rules; RealTime QC; QCC PowerPak™ efficiency package	Maximum Water Consumption	5.0 L/hr (1.32 gal/hr)
		Drain Requirements	40 L/hr (10.6 gal/hr)
User Interface/Data Management		Dimensions	Normal operation: 187 cm W x 122 cm H x 132 cm D (74 in W x 48 in H x 52 in D)
Monitor	17-inch diagonal touchscreen with adjustable height		With monitor fully extended, lids fully open, and external UPS: 190 cm W x 191 cm H x 155 cm D (75 in. W x 75 in. H x 61 in. D)
Operating System	Linux, 1 GB RAM	Weight	349 kg (770 lb)
System Documentation	Operator manual	Compliance	Complies with international environmental, health, and safety standards
Data Storage	100,000 patient tests (10 MB), 100,000 QC results (10 MB), 9000 calibrations (5 yrs, 18 MB)	Noise Emission	<75 dB at 1 m while operating
		Average Heat Output	1,100 W/hr (3753 BTU/hr)
Auto-System Check	User-defined time of day	Operating Temperature Range	18–30°C (64–86°F)
Host Interface	RS-232C bidirectional		
Host Query	System requests work order or batch	Ambient Humidity	20-80% (noncondensing)

Auto-System Check	User-defined time of day		
Host Interface	RS-232C bidirectional		
Host Query	System requests work order or batch of work orders from host		
Remote Access and Service	Ethernet port for remote access via Siemens Remote Service (starting with software version 10.1); modem for remote diagnostic access		

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Removable Media	CD, DVD, and USB (starting with software version 10.0)
Conoral Specificat	ions

References:

1. Meets the definition of CLSI Clinical Laboratory Reagent Water (Clinical

Laboratory Standards Institute, C3-A4, Vol. 26, No. 22).

2. Not applicable to CLSI Clinical Laboratory Reagent Water (CLRW), but required for proper instrument performance.